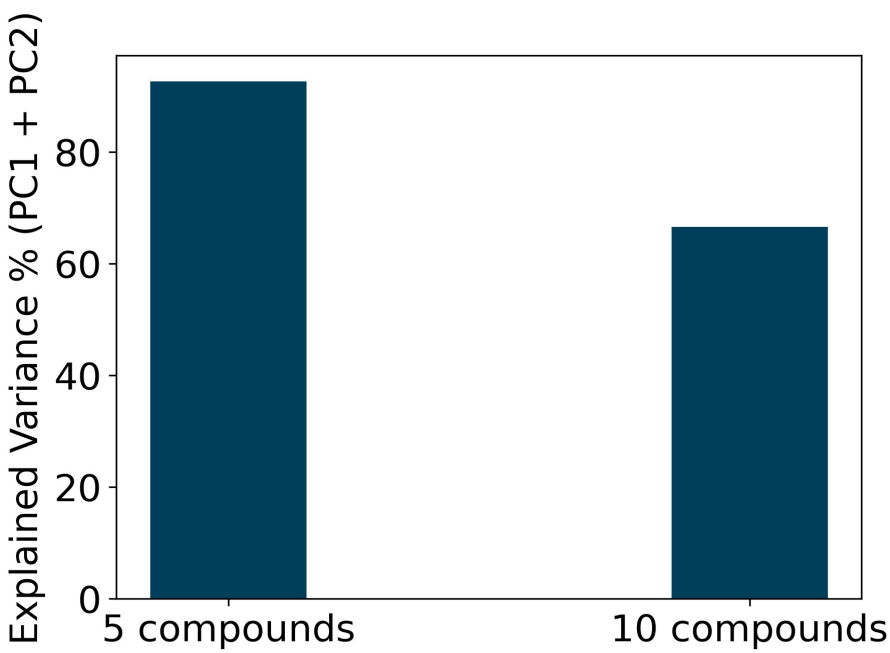
1 Transformations for Linear Discriminant Analysis

The LDA algorithm is using the PCA scores from the pattern recognition algorithm to be trained. Because of that any new samples that are to be classified, need to be first standardized (Lever et al., (2017)) and then transformed to their representation in the PCA space. Standardization is the process of mean centering and division by each compound's (algorithm selected compounds) average and standard deviation across all samples (see eq. 1).

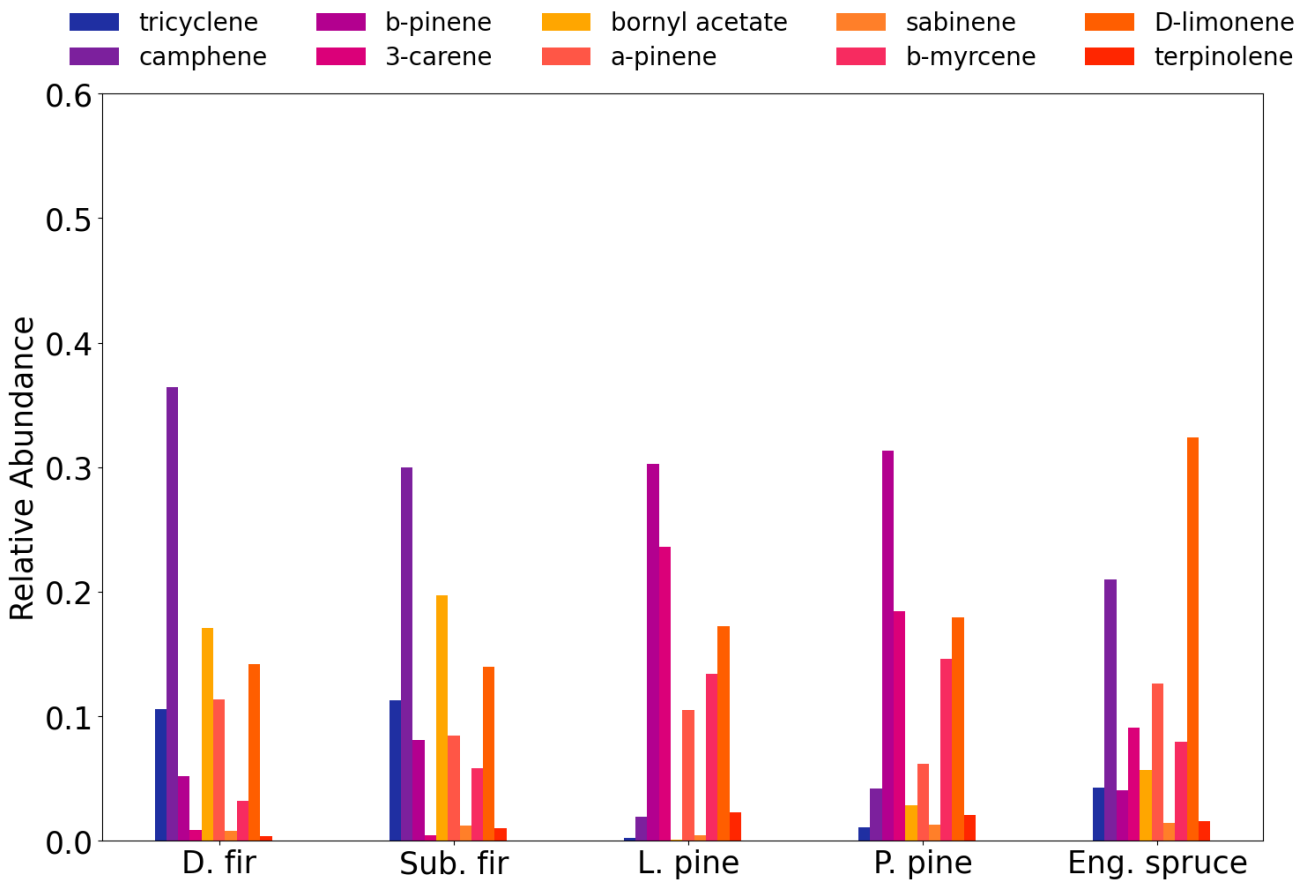
$$\text{compound}_i = \frac{\text{ER}_i - \mu_{\text{training}}}{\sigma_{\text{training}}} \quad (1)$$

where ER_i is the emission ratio of the compound to be standardized, μ_{training} and σ_{training} are the average and standard deviation for the same compound obtained from the training set. In this application the averages and standard deviations are obtained by the training set samples in order for the PCA transformation that follows to project the new samples to the same PCA space as the training samples.

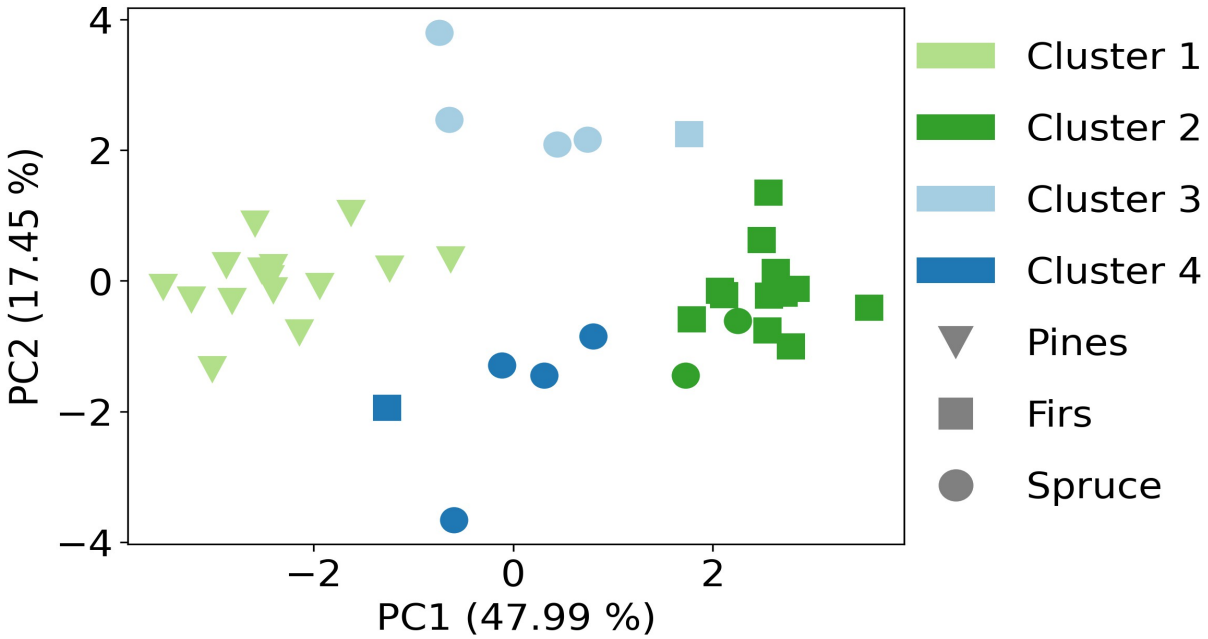
2 Algorithm Performance Figures, Overstory Composition Figures for Blodgett Forest Research Station and Emissions Ratios Table for the Firelab FL16 Data Set.



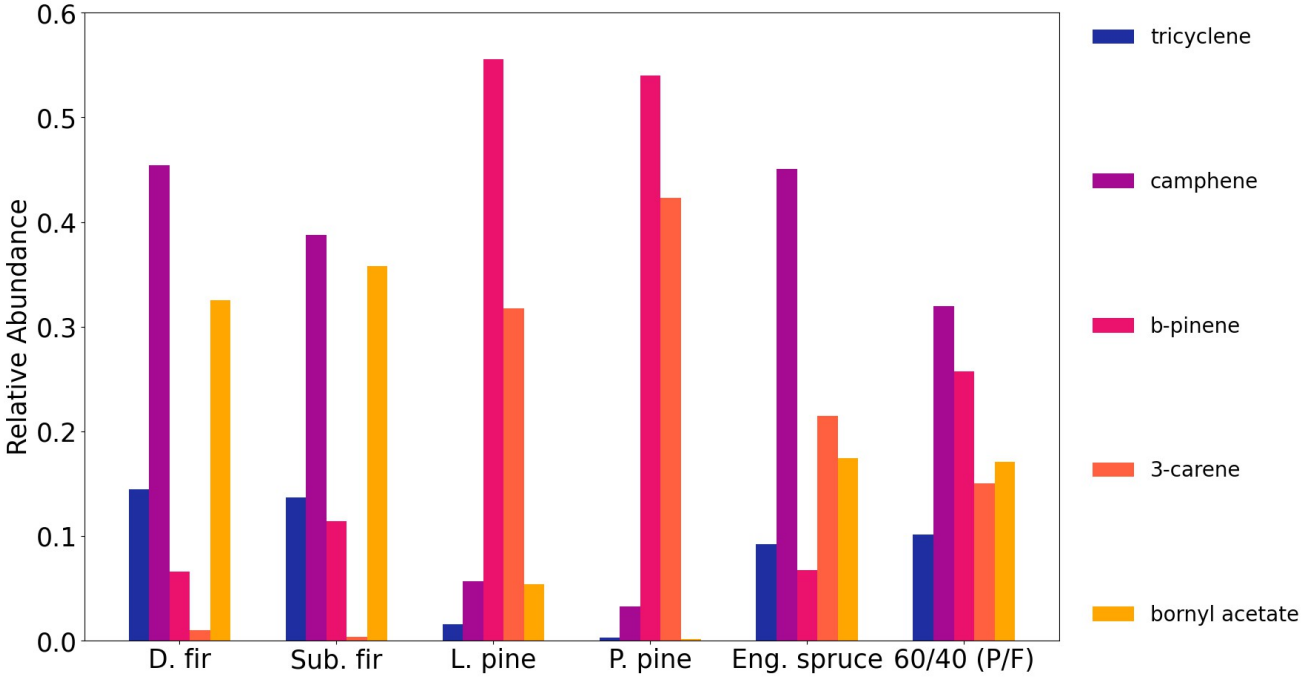
S1: PC1 and PC2 variance explained based on the number of compounds selected.



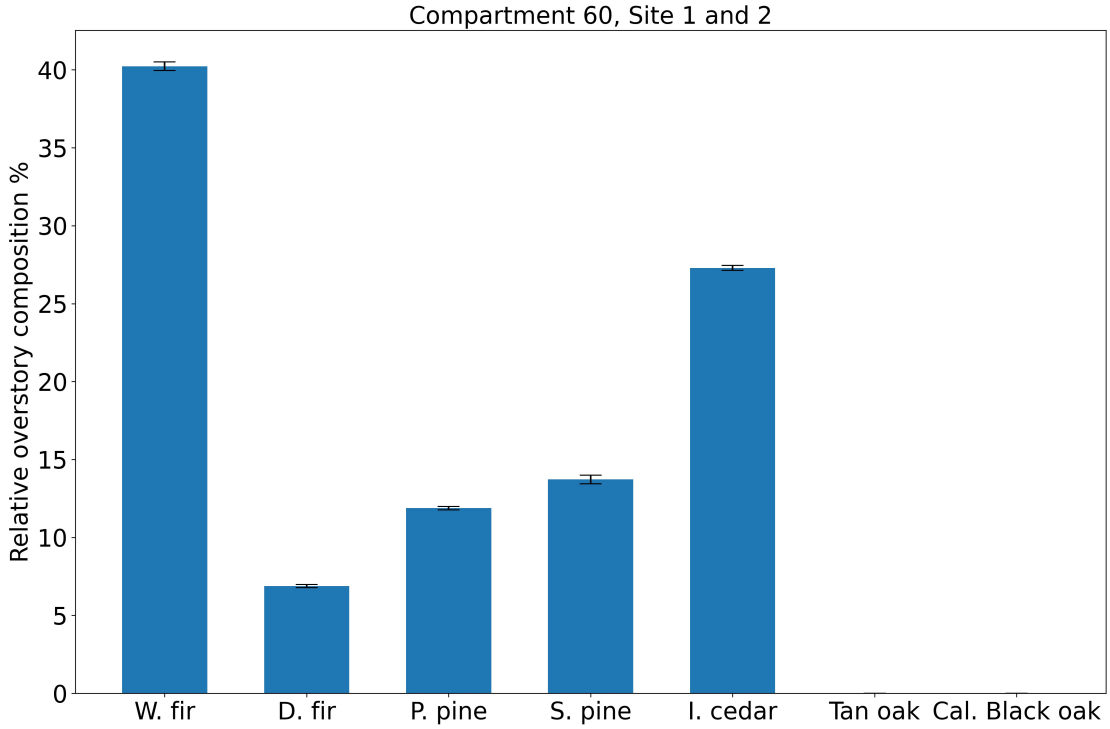
S2: Normalized emission ratio profiles for ten selected compounds for pines, firs and spruce.



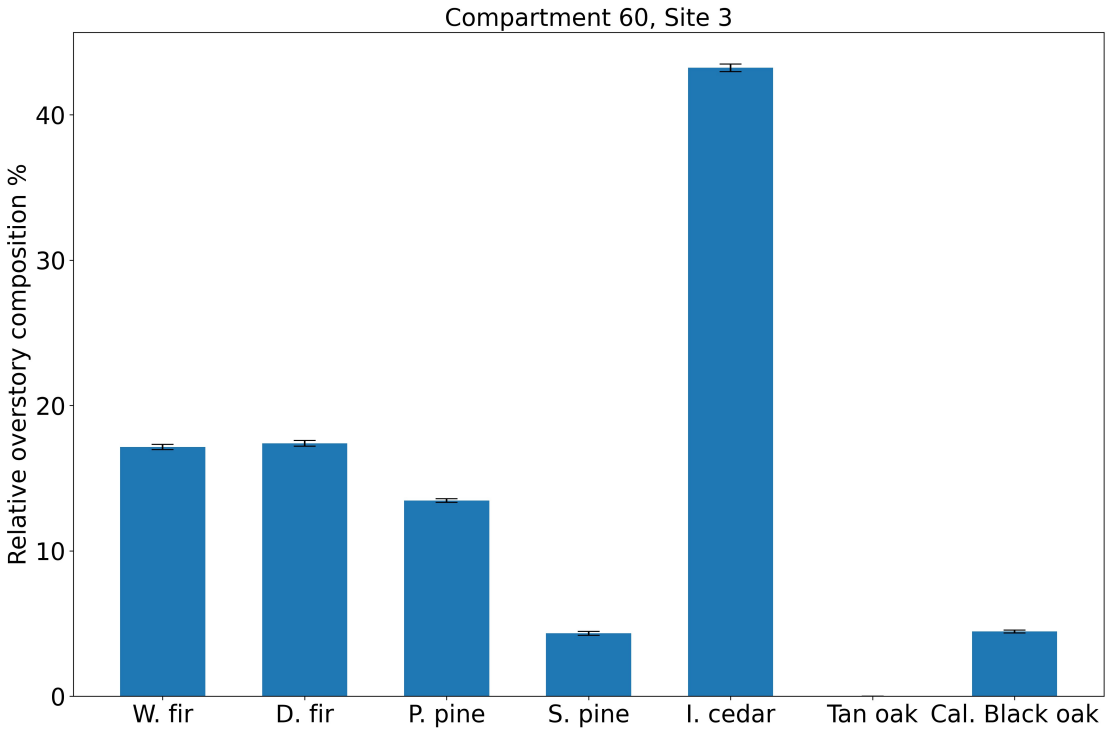
S3: PCA coupled with k-means clustering results for ten selected compounds for the PC1 and PC2 pair.



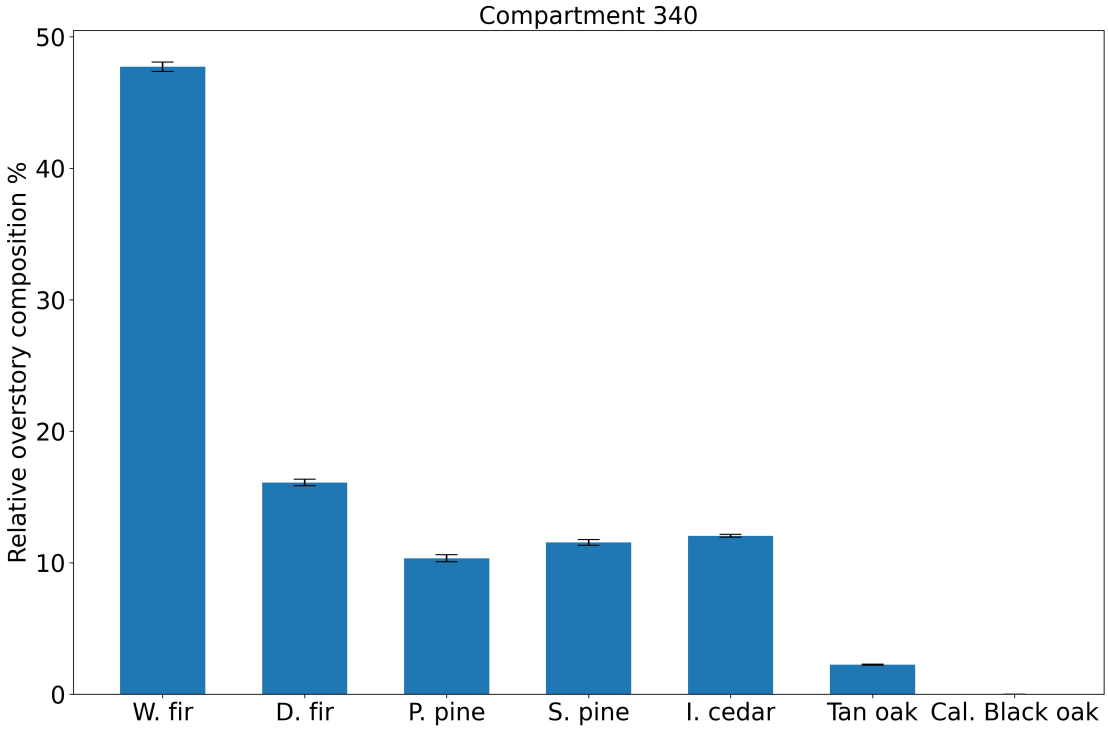
S4: Normalized emission ratio profiles for five selected compounds for pines, firs, spruce and the synthetic 60/40 pine/fir sample.



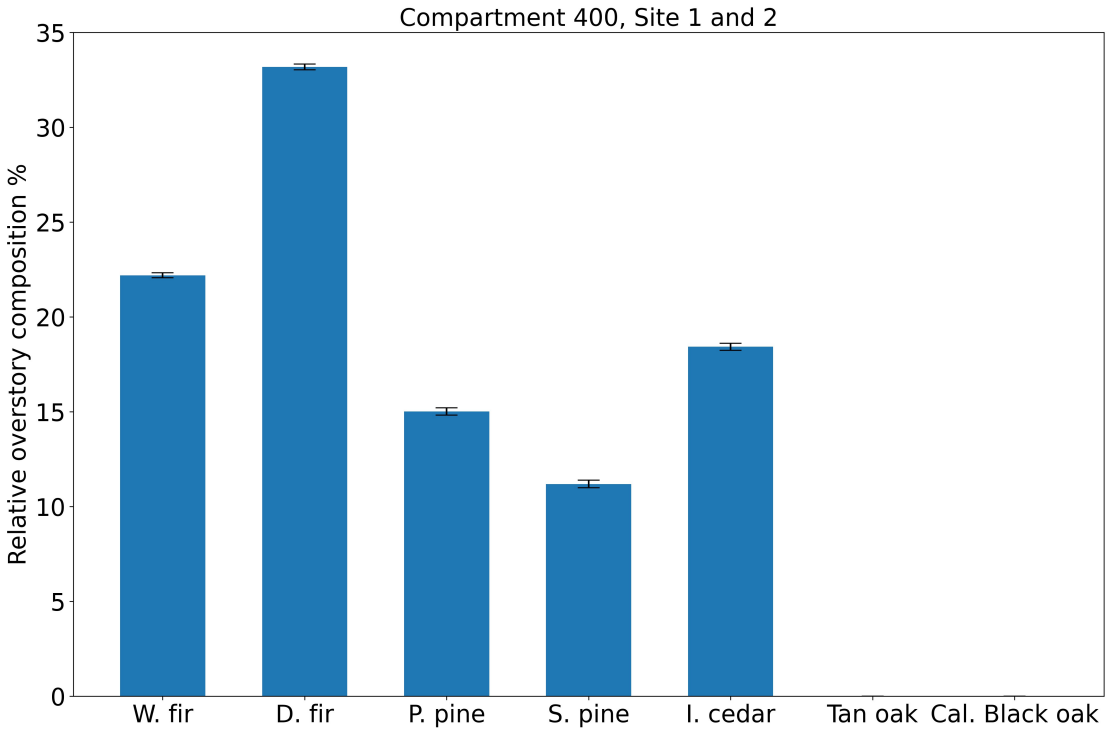
S5: Average relative fractional composition for compartment 60 (burned on 31 October 2017) close to site 1 and 2. The fractionalcontribution of each species was determined by the proportion of basal area among all trees with diameter >11.4 cm at breast height. Datafor the overstory composition were taken from the supplemental material in Hatch et al. (2019).



S6: As in S5 for compartment 60 (burned on 31 October 2017) for site 3.



S7: As in S5 for compartment 340 (burned on 30 October 2017) for site 2.



S8: As in S5, for compartment 400 (burned on 01 November 2017) for sites 1 and 2.

Table S1: Emission Ratios for the Firelab FL16 Data Set

Fuel type	santene	santolina triene	MT isomer	tricyclene	à-thujene	a-pinene	a-fenchene	camphene	MT isomer	MT isomer
Douglas fir	2.14E-05			9.70E-05	4.50E-06	1.07E-04		4.01E-04		
Douglas fir	6.07E-05		1.33E-05	2.31E-04		2.14E-04		6.28E-04		
Douglas fir	3.63E-05		8.17E-06	1.25E-04		1.72E-04		6.08E-04		
Douglas fir	9.26E-05		1.68E-05	3.07E-04		2.37E-04		1.08E-03		
Douglas fir				1.62E-06		3.02E-05		9.36E-06		
Douglas fir	2.13E-04		2.60E-05	4.44E-04	1.36E-05	4.93E-04		1.30E-03		
Douglas fir	3.74E-05		3.57E-06	9.49E-05	2.99E-06	1.48E-04		4.57E-04		
Douglas fir	9.89E-05		2.24E-05	2.91E-04	1.24E-05	2.42E-04		4.72E-04		
Engelmann spruce				4.95E-06				1.42E-05		
Engelmann spruce				5.53E-06				1.53E-05		
Engelmann spruce	3.35E-06			7.07E-06	2.67E-06	9.82E-06		1.33E-05		
Engelmann spruce	7.74E-06		1.62E-05	1.65E-04	8.37E-06	4.55E-04		8.81E-04		
Engelmann spruce						3.37E-05		2.93E-05		
Engelmann spruce	3.32E-06			3.53E-06				9.02E-06		
Engelmann spruce	2.26E-06			6.73E-06	5.72E-06	2.56E-05		1.22E-05		
Engelmann spruce				1.07E-05		3.33E-05		2.86E-05		
Engelmann spruce	1.54E-06			2.45E-06		4.44E-05		5.56E-06		
Engelmann spruce	1.25E-06			4.28E-06		2.22E-05		2.84E-05		
lodgepole pine										
lodgepole pine			4.25E-06	2.85E-06	7.98E-06	6.65E-05		1.07E-05	3.38E-06	
lodgepole pine						3.98E-06		2.40E-06		
lodgepole pine			2.93E-06	7.62E-06	2.54E-06	4.96E-05		1.69E-05	3.30E-06	
lodgepole pine	2.47E-06			1.57E-05	3.53E-06	3.49E-05		7.65E-05		
lodgepole pine				1.35E-06		1.36E-05				
lodgepole pine			1.05E-06	6.12E-06	1.17E-06	1.98E-05		2.05E-05		
ponderosa pine					3.94E-06	6.69E-05		7.07E-06		
ponderosa pine					2.18E-06	2.88E-05		5.67E-06	1.28E-06	
ponderosa pine			4.23E-06	4.43E-06	2.51E-06	7.37E-05		2.51E-05	1.77E-06	
ponderosa pine						2.07E-05			3.20E-06	
ponderosa pine			4.51E-06	2.61E-06	4.55E-06	1.22E-04		1.67E-05		
ponderosa pine			1.38E-05	5.00E-06	4.13E-06	2.88E-04		5.56E-05	1.13E-05	
ponderosa pine			5.22E-06	1.77E-06	1.54E-06	1.16E-04		2.23E-05		
ponderosa pine			5.06E-06	3.27E-06	5.45E-06	1.84E-04		3.04E-05	3.05E-06	
subalpine fir	4.84E-05		1.47E-05	3.00E-04	6.91E-06	1.98E-04		6.93E-04		
subalpine fir	4.72E-06			3.14E-05		8.34E-06		1.41E-04		
subalpine fir	5.12E-05		1.21E-05	2.24E-04		1.93E-04		6.29E-04		
subalpine fir	4.92E-05			1.98E-04		1.02E-04		6.99E-04		
subalpine fir	5.34E-06			1.90E-05	2.64E-06	5.11E-05		1.02E-04		
subalpine fir	2.28E-05		2.03E-06	9.47E-05	3.69E-06	7.36E-05		3.49E-04		

Fuel type	MT isomer	MT isomer	MT isomer	MT isomer	sabinene	b-pinene	artemiseole	MT isomer	MT isomer	b-myrcene	MT isomer	a-phellandrene	MT isomer
Douglas fir	5.95E-06				3.02E-05	1.91E-05				2.14E-05			
Douglas fir	2.76E-05				2.02E-06	8.29E-05		1.35E-06	3.58E-06	7.02E-05			8.25E-06
Douglas fir	9.16E-06					6.47E-05				4.53E-05			4.94E-06
Douglas fir	2.29E-05				2.94E-06	1.22E-04			1.07E-05	8.35E-05			7.95E-06
Douglas fir	2.23E-06					1.07E-04				1.98E-05			2.33E-06
Douglas fir	3.69E-05				4.49E-05	2.09E-04		2.26E-05		1.29E-04			1.42E-05
Douglas fir	4.34E-06				1.60E-05	3.43E-05				2.46E-05			2.62E-06
Douglas fir	3.29E-05				1.16E-04	9.99E-05			2.23E-05	9.12E-05			1.11E-05
Engelmann spruce										1.27E-05			
Engelmann spruce						2.00E-05				2.00E-05			
Engelmann spruce			6.02E-06		2.84E-06	5.68E-06		9.85E-07		4.60E-06			3.79E-05
Engelmann spruce	3.23E-05				6.11E-05	5.44E-05			1.72E-05	2.70E-04			1.33E-05
Engelmann spruce						5.03E-05				2.53E-05			
Engelmann spruce			4.50E-06							1.60E-06			4.04E-05
Engelmann spruce					3.92E-06	2.05E-05				4.54E-06		7.73E-06	
Engelmann spruce						1.44E-05				1.28E-05			
Engelmann spruce					1.10E-06	2.55E-05				1.84E-05			1.57E-06
Engelmann spruce	2.12E-06				1.05E-06	1.02E-05				2.29E-05			1.71E-06
lodgepole pine					2.41E-06	8.23E-05				2.69E-05			4.28E-06
lodgepole pine	6.47E-06				4.78E-06	1.21E-04		2.48E-06		7.67E-05			1.06E-05
lodgepole pine					1.48E-06	1.03E-04				3.55E-05			6.16E-06
lodgepole pine	1.52E-05				1.28E-05	2.62E-04		9.34E-06		1.42E-04			2.47E-05
lodgepole pine	7.12E-06				8.59E-06	1.85E-04				6.77E-05			8.77E-06
lodgepole pine					3.65E-06	6.50E-05				2.93E-05			5.35E-06
lodgepole pine	7.47E-06				5.86E-06	1.33E-04		2.54E-06		6.51E-05			8.82E-06
ponderosa pine					4.47E-06	2.97E-04				9.43E-05			9.69E-06
ponderosa pine	4.03E-06				2.81E-06	1.16E-04		2.29E-06		8.14E-05			1.29E-05
ponderosa pine	1.17E-05	2.54E-06			1.42E-06	1.13E-04		3.20E-06		5.88E-05		2.63E-06	9.80E-06
ponderosa pine					3.71E-06	2.25E-04		6.87E-06		9.90E-05			1.36E-05
ponderosa pine	7.23E-06	2.79E-06			5.82E-06	2.38E-04		6.18E-06		1.56E-04		2.90E-06	1.85E-05
ponderosa pine	2.84E-05	8.39E-06			1.24E-05	8.54E-04		2.61E-05		3.07E-04		2.47E-06	5.46E-05
ponderosa pine	1.31E-05				5.60E-06	1.97E-04		8.31E-06		1.95E-04		1.97E-06	2.10E-05
ponderosa pine	6.93E-06				8.09E-07	5.46E-04		5.80E-06		1.55E-04		5.57E-06	1.94E-05
subalpine fir	3.61E-05	6.44E-06	9.36E-06		5.17E-06	2.78E-04		3.33E-05		2.96E-04			5.63E-05
subalpine fir						3.61E-05				1.55E-05			
subalpine fir	2.05E-05				4.82E-06	2.33E-04		8.91E-06		1.52E-04			1.94E-05
subalpine fir						5.10E-05				6.48E-06			
subalpine fir	2.74E-05					2.21E-05				8.62E-06			1.16E-05
subalpine fir	6.37E-06				2.86E-06	1.13E-04				3.16E-05			5.07E-06

Fuel type	3-carene	a-terpinene	p-cymene	D-limonene	b-phellandrene	eucalyptol	MT isomer	á-ocimene	á-ocimene_2	C-terpinene	sabinene hydrate, cis	cis-linalool oxide	MT isomer
Douglas fir	3.65E-06		1.94E-05	1.43E-04									
Douglas fir	7.38E-06		3.37E-05	3.32E-04			2.94E-06	1.14E-05	2.11E-05	1.68E-06			
Douglas fir	3.90E-05		1.89E-05	2.36E-04				8.83E-06	1.16E-05	2.42E-06			
Douglas fir			2.34E-05	3.88E-04				9.39E-06	1.09E-05	3.08E-06			
Douglas fir	2.12E-05		1.65E-05	4.01E-05									
Douglas fir	1.26E-05	7.86E-06	5.72E-05	4.74E-04				1.77E-05	6.45E-05	7.34E-06			
Douglas fir	2.38E-05		1.54E-05	1.38E-04				3.29E-06	4.01E-06				
Douglas fir	1.78E-05	6.51E-06	5.08E-05	3.43E-04			3.93E-06	1.40E-05	5.80E-05	6.81E-06			
Engelmann spruce			1.64E-05	1.19E-05						1.41E-06			
Engelmann spruce	4.46E-06		2.25E-05	1.66E-05	2.65E-05								
Engelmann spruce	3.92E-05	4.38E-05	6.39E-05	1.37E-05	9.68E-05			5.07E-06		4.49E-06			
Engelmann spruce	3.69E-04	1.17E-05	6.51E-05	1.39E-03		1.07E-04		2.45E-05	2.27E-05	1.34E-05			
Engelmann spruce			6.82E-06	8.44E-06	1.56E-05								
Engelmann spruce	3.57E-05	3.57E-05	9.62E-05	3.15E-05	7.76E-05					4.38E-06			
Engelmann spruce		9.56E-06	4.79E-05	4.83E-05	1.52E-05					5.88E-06			
Engelmann spruce			9.42E-06	2.60E-05	9.35E-06								
Engelmann spruce	2.60E-06		1.42E-05	2.53E-05	1.20E-05								
Engelmann spruce			2.68E-05	2.97E-05	1.57E-05								
lodgepole pine	4.26E-05		1.51E-05	1.97E-05	6.50E-05					2.69E-06			
lodgepole pine	5.59E-05		2.81E-05	8.88E-05	9.66E-05			6.22E-06		1.64E-06		3.01E-06	
lodgepole pine	1.28E-05		1.11E-05	1.54E-05	6.22E-05								
lodgepole pine	2.16E-04	1.09E-05	6.20E-05	1.21E-04	3.61E-04			1.61E-05	3.83E-06	5.06E-06		1.48E-05	
lodgepole pine	8.19E-05		3.60E-05	1.09E-04	2.25E-04			7.43E-06		1.61E-06		7.85E-06	
lodgepole pine	7.64E-05		2.52E-05	4.57E-05	1.35E-04					2.14E-06			
lodgepole pine	7.26E-05	2.38E-06	4.08E-05	1.44E-04	1.78E-04		1.68E-06	4.46E-06		1.87E-06		1.30E-05	
ponderosa pine	3.47E-04		2.45E-05	1.05E-04	1.34E-06					3.58E-06			
ponderosa pine	1.84E-04		2.14E-05	9.39E-05						2.24E-06			
ponderosa pine	8.43E-05		6.07E-05	1.60E-04			2.19E-06	4.34E-06		1.13E-06			
ponderosa pine	2.70E-04		3.80E-05	8.32E-05									
ponderosa pine	2.02E-04		3.88E-05	1.69E-04				1.25E-05	1.74E-06	2.74E-06			
ponderosa pine	4.52E-04	9.54E-06	7.09E-05	4.57E-04	4.09E-05		8.17E-06	2.18E-05	6.78E-06	1.05E-05			
ponderosa pine	2.73E-04		3.25E-05	1.99E-04				1.23E-05		4.13E-06			
ponderosa pine	2.04E-04		4.31E-05	2.03E-04			1.74E-06	8.44E-06	1.86E-06	3.86E-06			
subalpine fir	9.85E-06	3.18E-05	5.21E-05	2.91E-04	5.20E-04		7.34E-06	1.73E-05	1.05E-05	6.48E-06			5.72E-06
subalpine fir			5.57E-06	5.31E-05	7.14E-05								
subalpine fir	2.20E-06	8.28E-06	5.55E-05	3.43E-04	2.12E-04		2.85E-06	9.49E-06	6.99E-06	3.67E-06			
subalpine fir			2.98E-05	2.05E-04	3.51E-05								
subalpine fir		1.46E-05	6.96E-05	6.43E-05	9.01E-05		3.23E-06	1.03E-05		3.36E-06			
subalpine fir	1.33E-05		2.56E-05	1.34E-04	1.09E-04	6.99E-07				1.33E-06			

Fuel type	MT isomer	terpinolene	trans-linalool oxide	L-fenchone	linalool	à-campholenal	neo-allo-cimene	limonene oxide, trans-	(+)-nopinone	allocimene	L-pinocarveol	methyl santolinate	L-camphor
Douglas fir		8.03E-06											
Douglas fir		9.86E-06		1.63E-06	2.25E-05		2.84E-06	2.22E-06					9.66E-06
Douglas fir		7.24E-06			1.90E-05		3.75E-06						5.29E-06
Douglas fir		1.00E-05			1.18E-05		7.40E-06						6.11E-06
Douglas fir													
Douglas fir					1.57E-05		1.72E-05			1.02E-05			1.11E-05
Douglas fir		7.32E-06											3.40E-06
Douglas fir		5.97E-05	1.21E-06		1.21E-05		6.91E-06			3.80E-06			9.51E-06
Engelmann spruce													1.30E-05
Engelmann spruce													1.25E-05
Engelmann spruce		5.44E-06					1.73E-06						4.30E-06
Engelmann spruce		6.20E-05		7.66E-06			2.75E-05						3.69E-04
Engelmann spruce													4.15E-05
Engelmann spruce		7.41E-06											
Engelmann spruce		3.17E-06							5.87E-06				1.94E-06
Engelmann spruce													
Engelmann spruce													1.45E-06
Engelmann spruce													1.90E-05
lodgepole pine		4.34E-06											
lodgepole pine		7.24E-06	1.34E-06		1.04E-05								1.05E-06
lodgepole pine		3.54E-06											
lodgepole pine		2.05E-05	5.17E-06				3.68E-06						
lodgepole pine		1.00E-05	3.15E-06										
lodgepole pine		6.53E-06											
lodgepole pine		1.07E-05	5.30E-06		1.09E-06								1.66E-06
ponderosa pine		1.83E-05											
ponderosa pine		1.22E-05			1.72E-06								
ponderosa pine		4.07E-06									5.18E-06		9.37E-07
ponderosa pine		1.38E-05					3.83E-06						
ponderosa pine		1.76E-05			8.29E-06		1.71E-06		3.05E-06				
ponderosa pine		7.36E-05			2.73E-05		1.84E-05		5.62E-06	5.12E-06	8.23E-06		
ponderosa pine		2.61E-05			6.90E-06		3.49E-06		2.79E-06				
ponderosa pine		3.03E-05	6.38E-07		1.68E-05		2.18E-06		3.98E-06		9.68E-06		2.92E-06
subalpine fir		2.47E-05		1.90E-06		1.86E-06	2.64E-05			1.01E-05			2.05E-05
subalpine fir													
subalpine fir		1.90E-05		3.47E-06	2.98E-06		4.29E-06						3.20E-05
subalpine fir													7.64E-05
subalpine fir													1.82E-05
subalpine fir		2.84E-06							1.92E-06				1.24E-05

Fuel type	pinocarvone	endo-borneol	terpinen-4-ol	terpineol	estragole	myrtenal	myrtenol	fenchyl acetate	cis-chrysanthenol acetate	bornyl acetate	thymol	myrtenyl acetate	á-terpinyl acetate
Douglas fir										1.62E-04			
Douglas fir		8.00E-06		2.83E-06						3.55E-04			
Douglas fir				4.18E-06						3.84E-04	1.23E-06		
Douglas fir		7.31E-06								4.20E-04			
Douglas fir	9.33E-06					5.22E-06							
Douglas fir		2.11E-05								5.41E-04			
Douglas fir		4.48E-06								2.42E-04			
Douglas fir		1.35E-05	4.77E-06	4.48E-06						4.25E-04			
Engelmann spruce										1.29E-05	9.59E-07		
Engelmann spruce										9.86E-06			
Engelmann spruce		6.49E-06		1.91E-06						1.66E-06	2.51E-06		
Engelmann spruce		2.14E-05		2.81E-05						2.34E-04			
Engelmann spruce													
Engelmann spruce				6.26E-06									
Engelmann spruce										4.83E-06			
Engelmann spruce										7.77E-06			
Engelmann spruce		4.76E-06								5.68E-06			
Engelmann spruce		2.14E-06		1.87E-06		2.84E-06				3.09E-06			
lodgepole pine													
lodgepole pine	8.19E-06	1.63E-06		9.44E-07	1.40E-06	3.87E-06				3.09E-06			
lodgepole pine													
lodgepole pine	5.48E-06									6.46E-06			
lodgepole pine	1.27E-05	5.24E-06				7.66E-06				6.14E-05	5.40E-07		
lodgepole pine										3.30E-06			
lodgepole pine	4.10E-06	4.24E-06		1.43E-06						1.33E-05			
ponderosa pine	1.15E-05			3.21E-06									1.59E-06
ponderosa pine	3.50E-06		1.50E-06	5.77E-06	8.28E-06								
ponderosa pine		3.40E-06			2.75E-06	9.93E-06	4.91E-06			4.94E-06			
ponderosa pine					2.47E-05								
ponderosa pine	1.77E-05		1.82E-06	3.08E-06	7.26E-05	5.14E-06	3.53E-06						1.92E-06
ponderosa pine			4.41E-06	1.01E-05	1.30E-04	7.94E-06							5.25E-06
ponderosa pine	5.99E-06		2.50E-06	5.41E-06	5.78E-05	5.69E-06							1.41E-06
ponderosa pine		3.71E-06	4.31E-06	6.62E-06	6.60E-05	6.89E-06	5.80E-06			2.66E-06			4.52E-06
subalpine fir		2.28E-05		3.93E-06				3.26E-06		5.67E-04	1.97E-05		
subalpine fir										1.03E-04			
subalpine fir	8.82E-06	2.88E-05	6.92E-06	3.40E-06		8.39E-06		4.59E-06		6.07E-04	1.29E-05		
subalpine fir		1.03E-04								1.80E-04			
subalpine fir		2.26E-05								3.67E-05	3.55E-06		
subalpine fir	8.06E-06	7.34E-06	1.69E-06			3.14E-06				1.06E-04	1.45E-06		

Fuel type	à-cubebene	SQT isomer	copaene	a-bourbonene	SQT isomer	b-elemene	SQT isomer	longifolene	SQT isomer	SQT isomer	SQT isomer	b-caryophyllene	SQT isomer
Douglas fir													
Douglas fir		1.61E-06						1.60E-05					
Douglas fir								9.76E-06					
Douglas fir								5.64E-06					
Douglas fir								2.01E-06				8.32E-07	
Douglas fir								1.18E-05					
Douglas fir								4.68E-06					
Douglas fir		5.80E-07						8.16E-06					
Engelmann spruce								3.52E-06					
Engelmann spruce													
Engelmann spruce								4.41E-06					
Engelmann spruce													
Engelmann spruce													
Engelmann spruce								2.53E-06					
Engelmann spruce								1.19E-05					
Engelmann spruce													
Engelmann spruce								1.92E-06					
Engelmann spruce								2.08E-06					
lodgepole pine													
lodgepole pine	3.75E-07												
lodgepole pine													
lodgepole pine	6.92E-07												
lodgepole pine	5.67E-07												
lodgepole pine													
lodgepole pine	1.02E-06		1.10E-06			1.50E-06							
ponderosa pine													
ponderosa pine								1.73E-06					
ponderosa pine	5.54E-07							5.12E-06			1.25E-06	1.62E-06	
ponderosa pine													
ponderosa pine	5.19E-07							3.48E-06				1.59E-06	
ponderosa pine								4.86E-06				1.48E-06	
ponderosa pine								3.60E-06					
ponderosa pine	7.12E-07							7.58E-06				9.24E-07	
subalpine fir		1.67E-06						1.36E-05					
subalpine fir													
subalpine fir								1.43E-05					
subalpine fir								2.32E-05					
subalpine fir								1.32E-05					
subalpine fir								3.19E-06					

Fuel type	SQT isomer	SQT isomer	trans-a-bergamotene	aromandendrene	SQT isomer	humulene	SQT isomer	SQT isomer	SQT isomer	a-selinene	a-bulnesene	cadinene isomer	b-bisabolene
Douglas fir													
Douglas fir						9.52E-07							
Douglas fir													
Douglas fir													
Douglas fir							7.87E-07					9.62E-07	
Douglas fir													
Douglas fir													
Douglas fir													
Engelmann spruce													
Engelmann spruce													
Engelmann spruce										7.92E-07			
Engelmann spruce													
Engelmann spruce													
Engelmann spruce													
Engelmann spruce												2.21E-06	
Engelmann spruce													
Engelmann spruce													
Engelmann spruce				1.88E-06									
lodgepole pine													
lodgepole pine							1.26E-06					1.83E-06	
lodgepole pine													
lodgepole pine					2.93E-06		2.81E-06					3.61E-06	
lodgepole pine							1.39E-06			1.15E-06		2.49E-06	7.31E-07
lodgepole pine					1.90E-06								
lodgepole pine					1.91E-06		2.42E-06			1.01E-06		3.44E-06	
ponderosa pine			1.20E-06										
ponderosa pine												9.60E-07	
ponderosa pine	9.54E-07						2.81E-06					2.98E-06	
ponderosa pine			1.04E-06										
ponderosa pine			1.87E-06				1.69E-06			1.52E-06		2.67E-06	
ponderosa pine			1.32E-06		3.23E-06							2.15E-06	
ponderosa pine			1.05E-06									1.83E-06	
ponderosa pine			1.02E-06	1.64E-06			1.32E-06			7.74E-07		2.11E-06	
subalpine fir										2.43E-06	1.76E-06		3.77E-06
subalpine fir													
subalpine fir										2.23E-06	2.23E-06		6.31E-06
subalpine fir													
subalpine fir													
subalpine fir										1.53E-06			2.52E-06

Fuel type	SQT isomer	γ-cadinene	δ-cadinene	humulene	cadinene isomer
Douglas fir					
Douglas fir					
Douglas fir					
Douglas fir					
Douglas fir					
Douglas fir					
Douglas fir					
Douglas fir					
Engelmann spruce	3.51E-06				
Engelmann spruce					
Engelmann spruce	1.07E-05				
Engelmann spruce					
Engelmann spruce					
Engelmann spruce	5.76E-06				
Engelmann spruce	7.90E-06				
Engelmann spruce					
Engelmann spruce					
Engelmann spruce					
lodgepole pine		2.84E-06	2.37E-06		
lodgepole pine					3.97E-07
lodgepole pine					
lodgepole pine		7.38E-06	6.96E-06		7.39E-07
lodgepole pine		4.27E-06			
lodgepole pine					
lodgepole pine		8.68E-06	7.09E-06		6.98E-07
ponderosa pine					
ponderosa pine		1.30E-06			
ponderosa pine					5.68E-07
ponderosa pine					
ponderosa pine		3.77E-06			
ponderosa pine			3.44E-06		
ponderosa pine		3.31E-06	2.93E-06		
ponderosa pine		3.97E-06	2.48E-06		
subalpine fir					
subalpine fir					
subalpine fir				7.97E-07	
subalpine fir					
subalpine fir	6.43E-06				
subalpine fir					

References

Hatch, L. E., Jen, C. N., Kreisberg, N. M., Selimovic, V., Yokelson, R. J., Stamatis, C., York, R. A., Foster, D., Stephens, S. L., Goldstein,A. H., and Barsanti, K. C.: Highly Speciated Measurements of Terpenoids Emitted from Laboratory and Mixed-Conifer Forest PrescribedFires, Environmental Science & Technology, 53, 9418–9428, https://doi.org/10.1021/acs.est.9b02612, pMID: 31318536, 2019.

Lever, J., Krzywinski, M., and Altman, N.: Principal component analysis, Nature Methods, 14, 641–642, https://doi.org/10.1038/nmeth.4346,2017.