

Data File : VL032609.D
Acq On : 11 Oct 2018 18:03
Operator : SY/AP
Sample : J5370-05
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
AMBIENT-SVI-100518

Quant Time: Oct 12 01:55:28 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL092418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct 01 06:49:26 2018
QLast Update : Mon Oct 01 06:49:26 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.79	49	1331786	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.32	114	2687016	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.27	117	2962683	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.61	95	2164747	9.69	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.90%

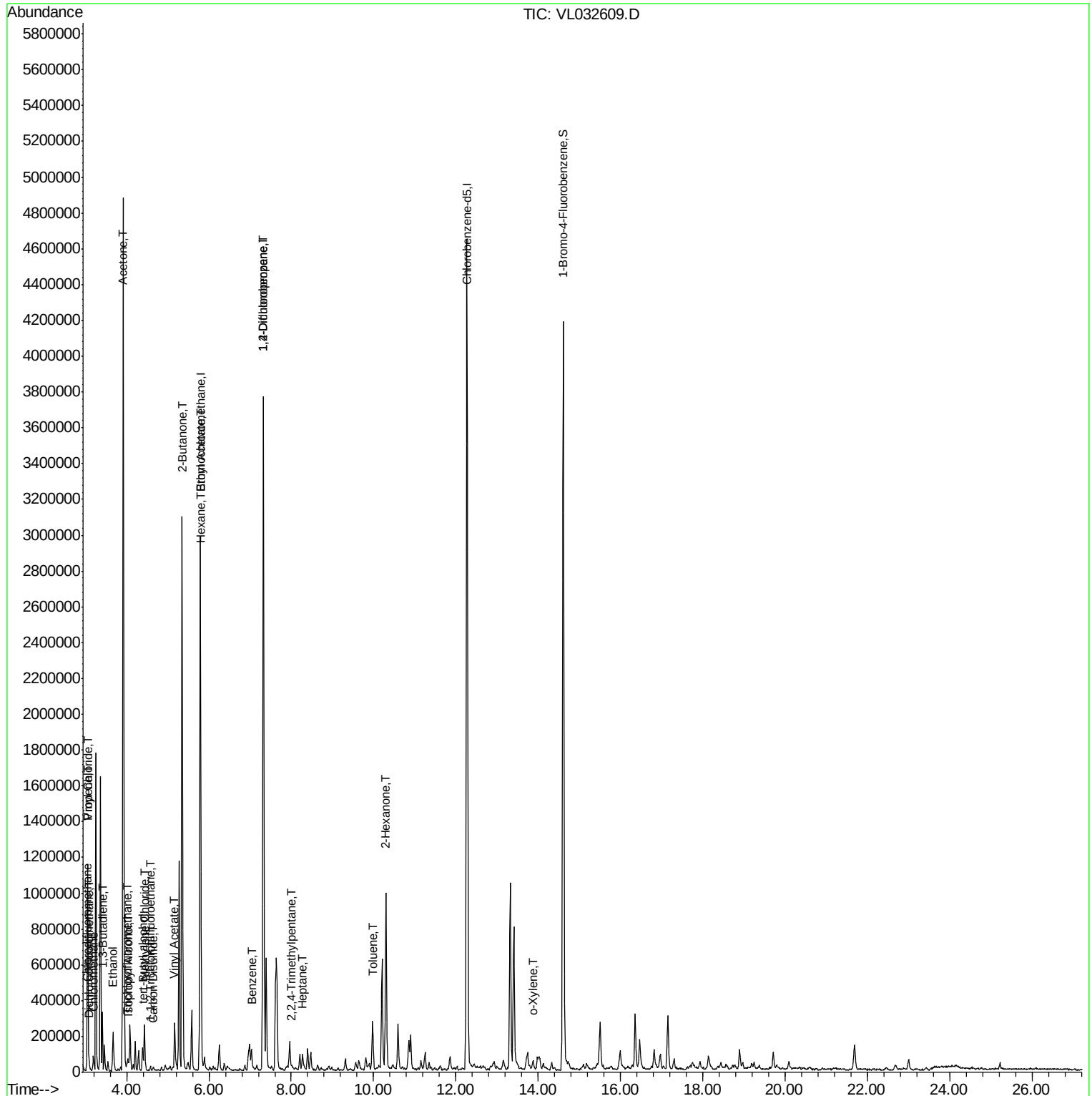
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.09	85	25629	0.208	ppbv	91
3) Chlorodifluoromethane	3.03	51	28408	0.257	ppbv	99
4) Chloromethane	3.19	50	30151	0.467	ppbv	98
5) Vinyl Chloride	3.06	62	2685	0.041	ppbv #	69
9) Propene	3.05	41	468716	9.754	ppbv	95
10) Heptane	8.28	43	27735	0.157	ppbv #	65
11) Trichlorofluoromethane	4.02	101	30567	0.209	ppbv	89
12) 1,1,2-Trichlorotrifluoroet	4.57	101	7418	0.062	ppbv	90
13) Ethanol	3.67	45	238248	16.495	ppbv	97
15) Acetone	3.91	43	5032978	43.053	ppbv	92
16) 1,3-Butadiene	3.41	39	38782	0.818	ppbv #	1
17) tert-Butyl alcohol	4.38	59	79540	5.415	ppbv #	100
19) Isopropyl Alcohol	4.05	45	46603	0.572	ppbv #	93
20) Methylene Chloride	4.43	84	83794	1.480	ppbv	92
23) Vinyl Acetate	5.17	43	65939	0.319	ppbv #	91
25) Ethyl Acetate	5.80	43	159389	0.562	ppbv #	89
26) Hexane	5.80	57	170815	1.333	ppbv #	46
27) Carbon Disulfide	4.64	76	13663	0.099	ppbv #	75
34) 2-Butanone	5.35	43	3608805	22.553	ppbv	99
36) Benzene	7.04	78	91614	0.422	ppbv	97
39) 1,2-Dichloropropane	7.32	63	714269	7.299	ppbv #	25
44) 2,2,4-Trimethylpentane	8.02	57	13011	0.031	ppbv #	16
51) 2-Hexanone	10.30	43	818761	3.936	ppbv #	100
53) Toluene	9.98	91	203558	0.769	ppbv	100
60) o-Xylene	13.87	91	11374	0.037	ppbv #	48

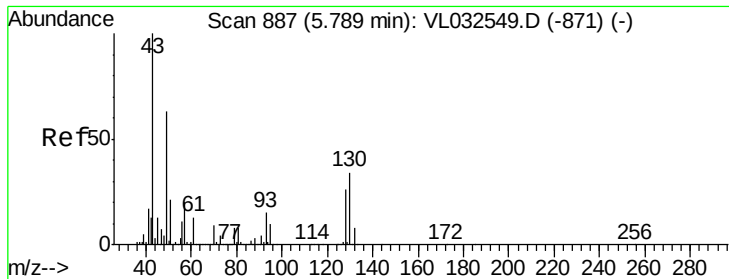
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ALS Vial : 1 Sample Multiplier: 1

AMBIENT-SVI-100518

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.79 min Scan# 887

Delta R.T. -0.02 min

Lab File: VL032609.D

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AMBIENT-SVI-100518

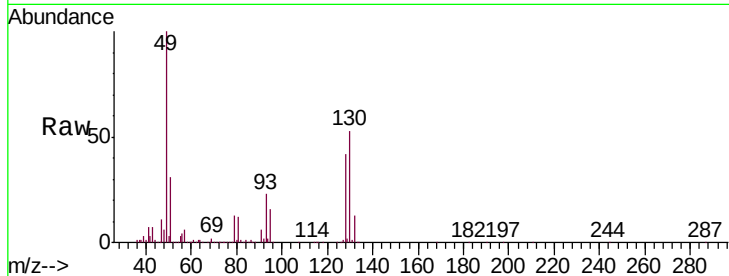
Tgt Ion: 49 Resp: 1331786

Ion Ratio Lower Upper

49 100

128 42.7 20.7 62.1

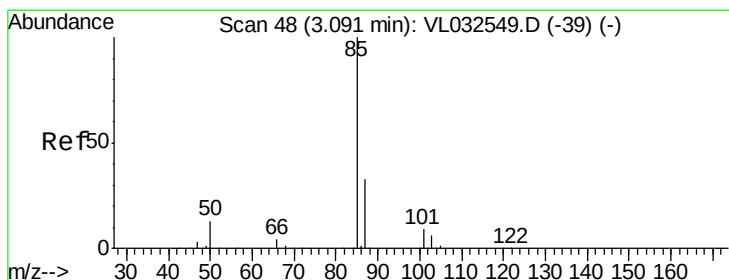
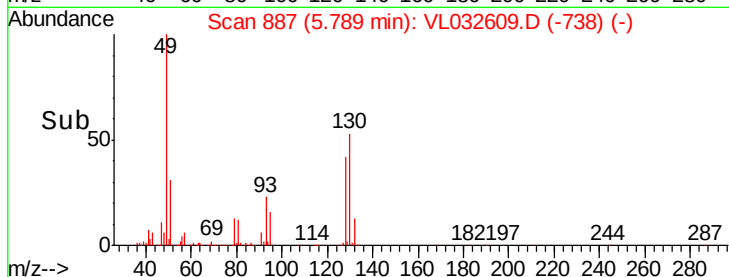
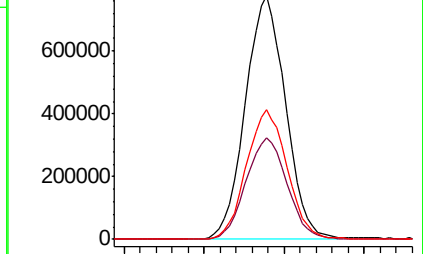
130 54.6 26.6 79.7



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.208 ppbv

RT: 3.09 min Scan# 48

Delta R.T. -0.02 min

Lab File: VL032609.D

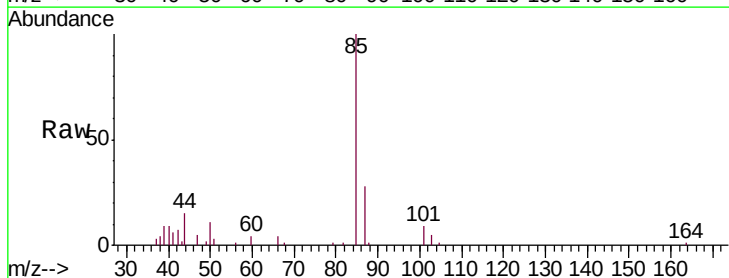
Acq: 11 Oct 2018 18:03

Tgt Ion: 85 Resp: 25629

Ion Ratio Lower Upper

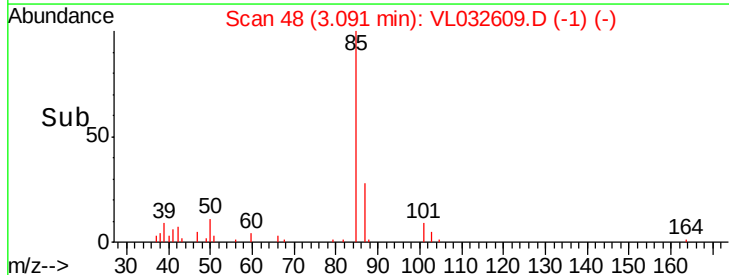
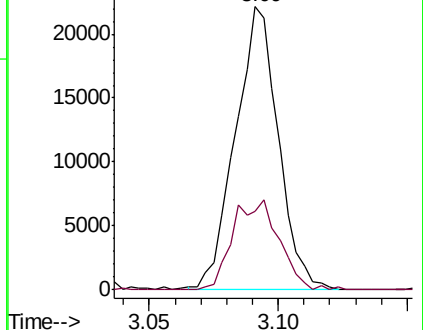
85 100

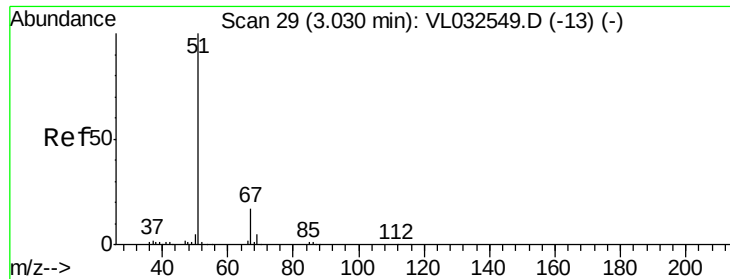
87 27.7 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.257 ppbv

RT: 3.03 min Scan# 28

Delta R.T. -0.02 min

Lab File: VL032609.D

Acq: 11 Oct 2018 18:03

Instrument :

MSVOA_L

ClientSampleId :

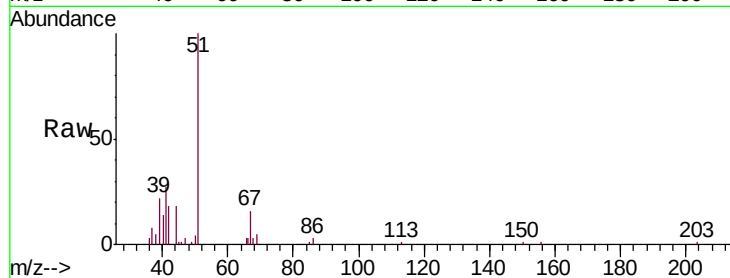
AMBIENT-SVI-100518

Tgt Ion: 51 Resp: 28408

Ion Ratio Lower Upper

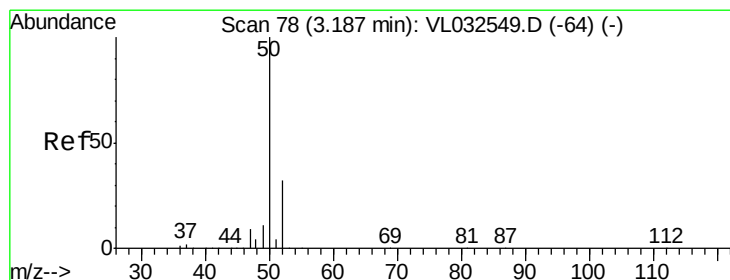
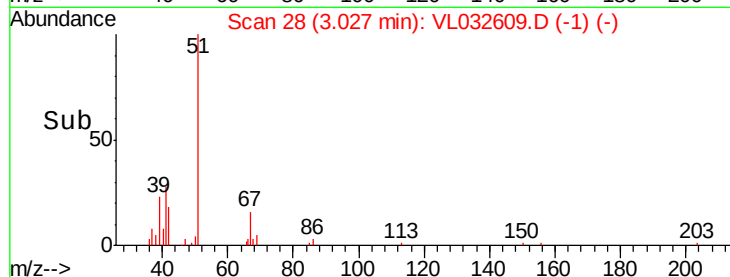
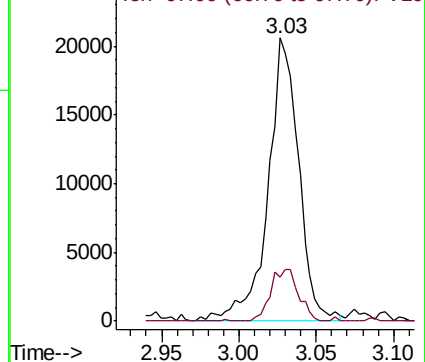
51 100

67 16.9 13.8 20.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.467 ppbv

RT: 3.19 min Scan# 79

Delta R.T. -0.01 min

Lab File: VL032609.D

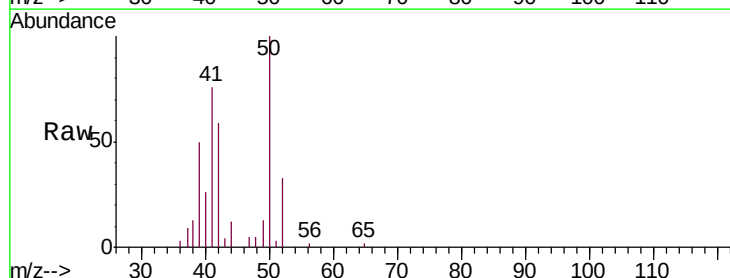
Acq: 11 Oct 2018 18:03

Tgt Ion: 50 Resp: 30151

Ion Ratio Lower Upper

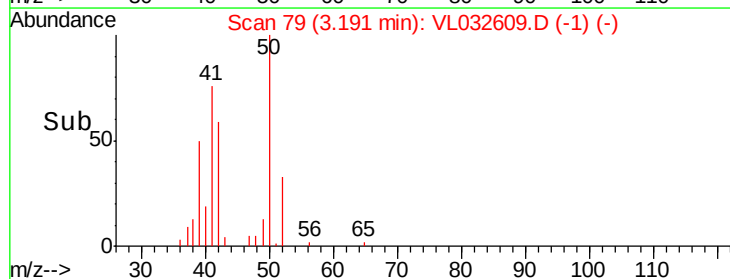
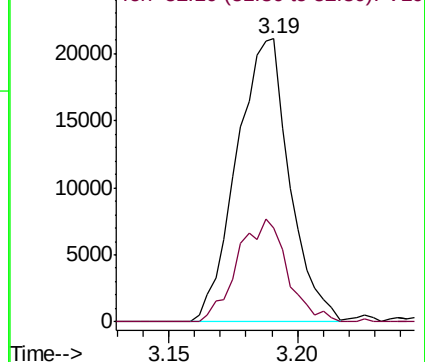
50 100

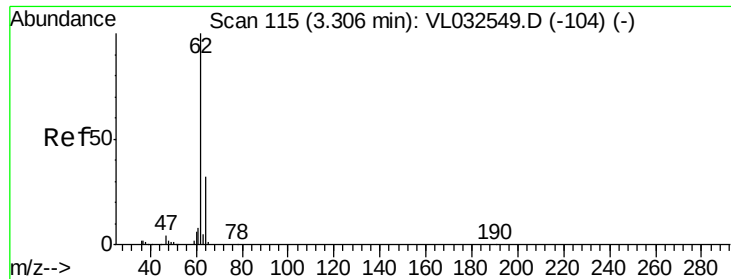
52 33.1 25.6 38.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.041 ppbv

RT: 3.06 min Scan# 38

Delta R.T. -0.27 min

Lab File: VL032609.D

Acq: 11 Oct 2018 18:03

Instrument :

MSVOA_L

ClientSampleId :

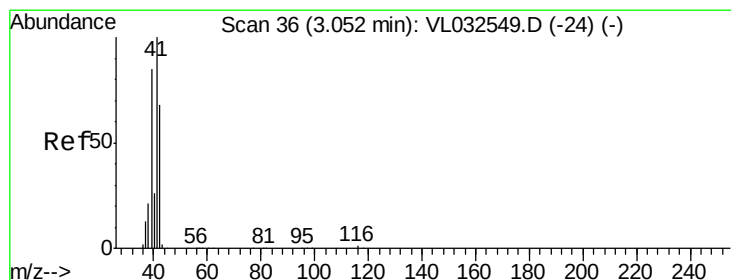
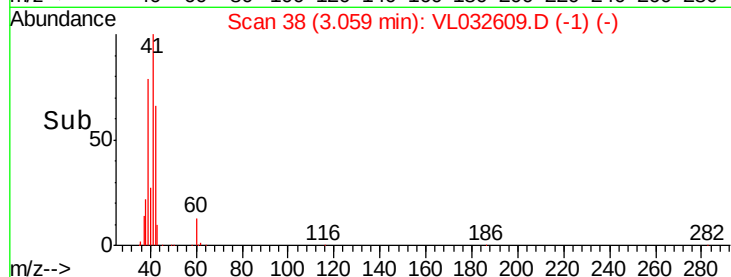
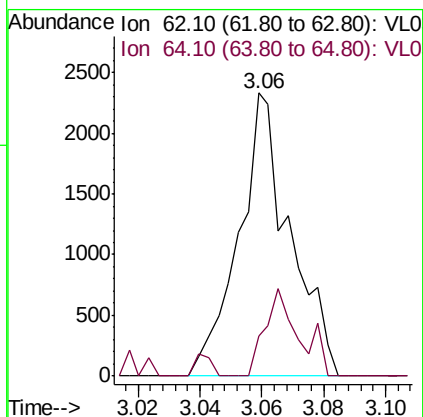
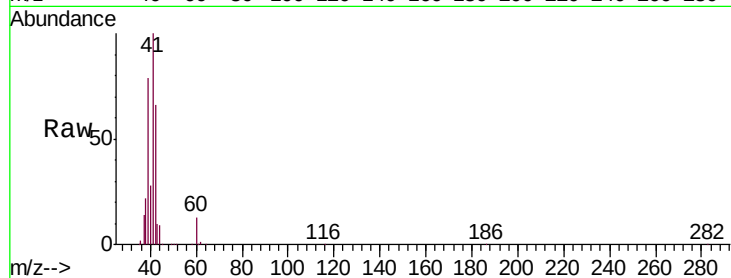
AMBIENT-SVI-100518

Tgt Ion: 62 Resp: 2685

Ion Ratio Lower Upper

62 100

64 14.3 25.0 37.6#



#9

Propene

Concen: 9.754 ppbv

RT: 3.05 min Scan# 36

Delta R.T. -0.01 min

Lab File: VL032609.D

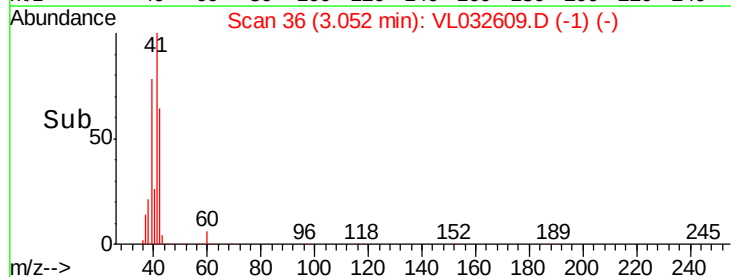
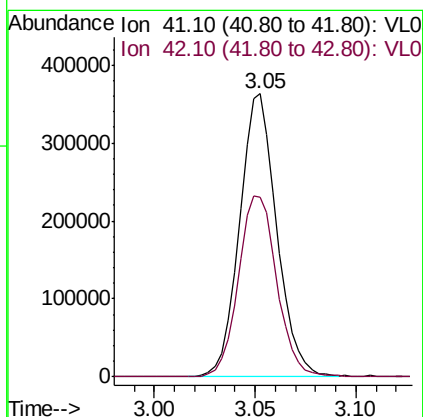
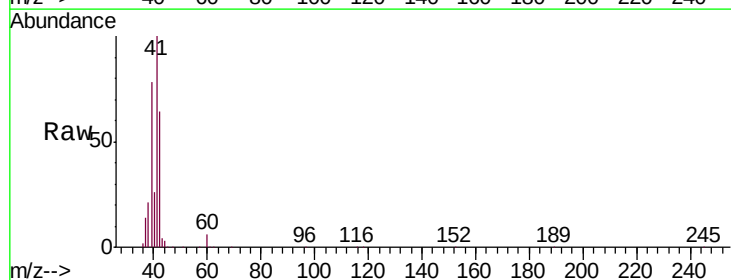
Acq: 11 Oct 2018 18:03

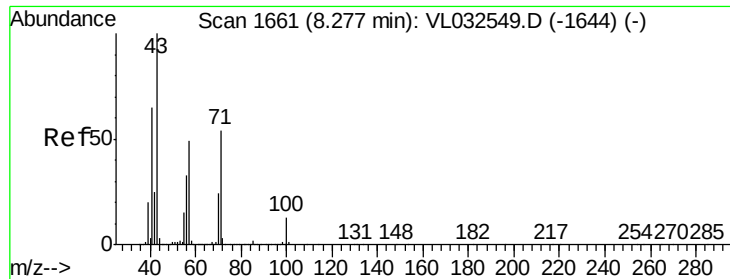
Tgt Ion: 41 Resp: 468716

Ion Ratio Lower Upper

41 100

42 66.5 56.6 84.8

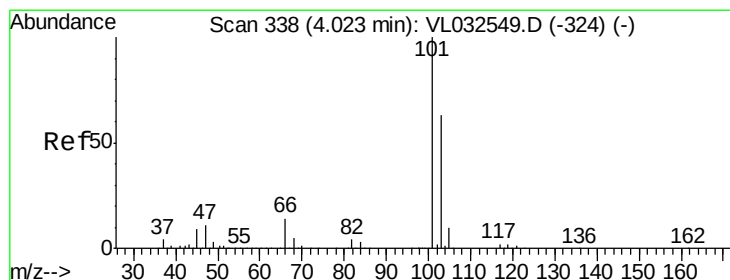
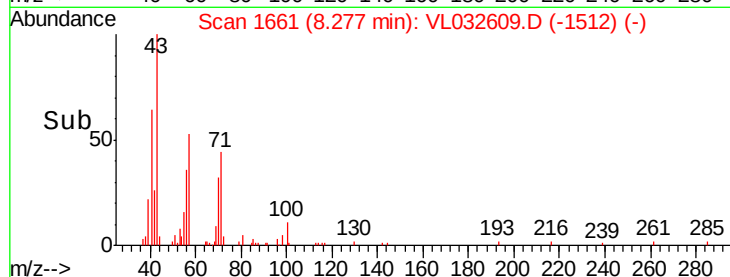
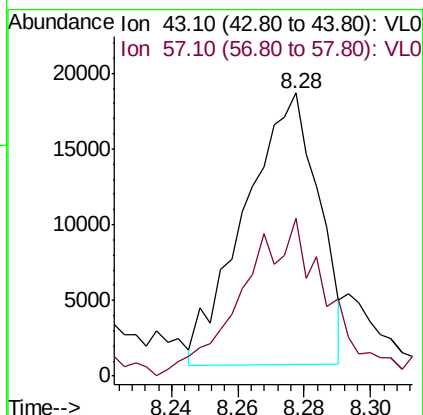
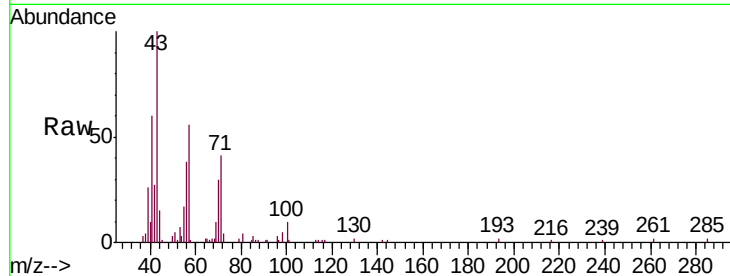




#10
 Heptane
 Concen: 0.157 ppbv
 RT: 8.28 min Scan# 1661
 Delta R.T. -0.02 min
 Lab File: VL032609.D
 Acq: 11 Oct 2018 18:03

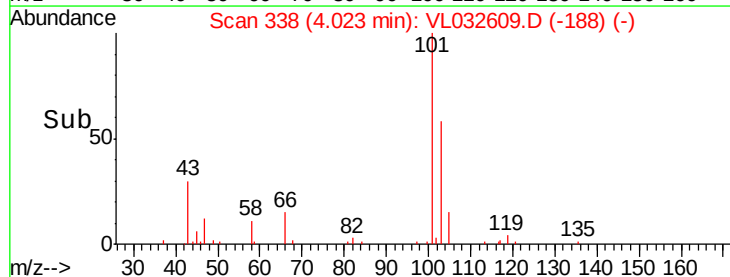
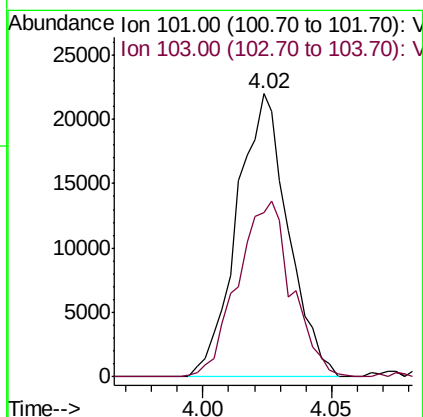
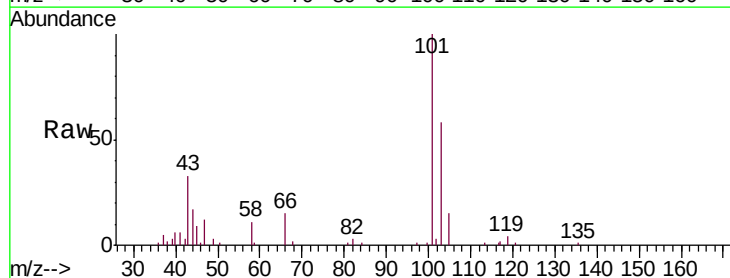
Instrument :
 MSVOA_L
 ClientSampleId :
 AMBIENT-SVI-100518

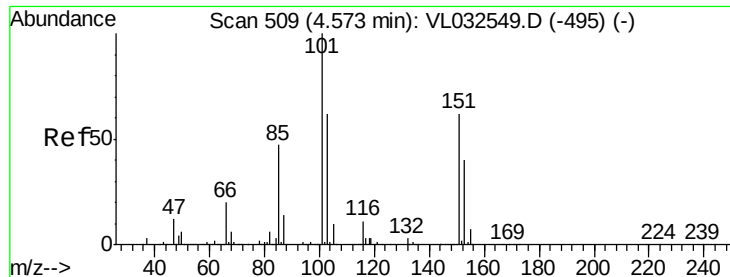
Tgt Ion: 43 Resp: 27735
 Ion Ratio Lower Upper
 43 100
 57 73.5 39.6 59.4#



#11
 Trichlorofluoromethane
 Concen: 0.209 ppbv
 RT: 4.02 min Scan# 338
 Delta R.T. -0.02 min
 Lab File: VL032609.D
 Acq: 11 Oct 2018 18:03

Tgt Ion: 101 Resp: 30567
 Ion Ratio Lower Upper
 101 100
 103 57.3 52.8 79.2





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.062 ppbv

RT: 4.57 min Scan# 509

Delta R.T. -0.02 min

Lab File: VL032609.D

Acq: 11 Oct 2018 18:03

Instrument :

MSVOA_L

ClientSampleId :

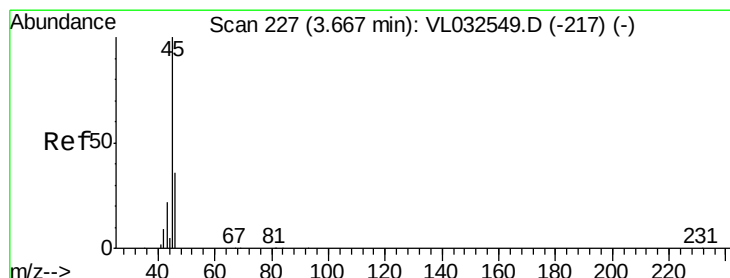
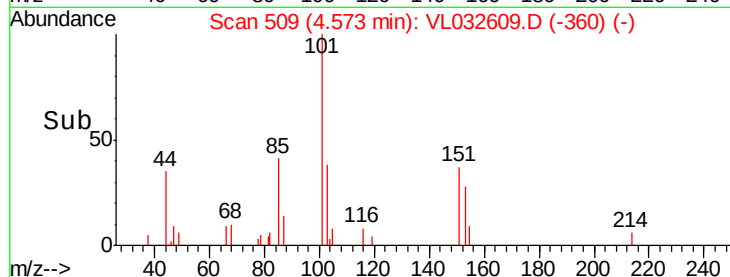
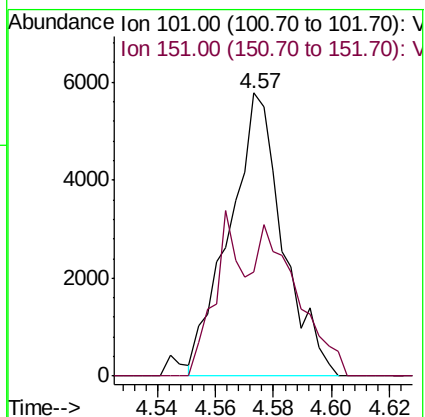
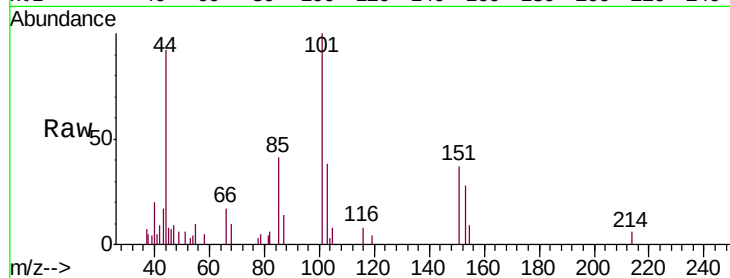
AMBIENT-SVI-100518

Tgt Ion: 101 Resp: 7418

Ion Ratio Lower Upper

101 100

151 73.4 52.6 78.8



#13

Ethanol

Concen: 16.495 ppbv

RT: 3.67 min Scan# 228

Delta R.T. -0.01 min

Lab File: VL032609.D

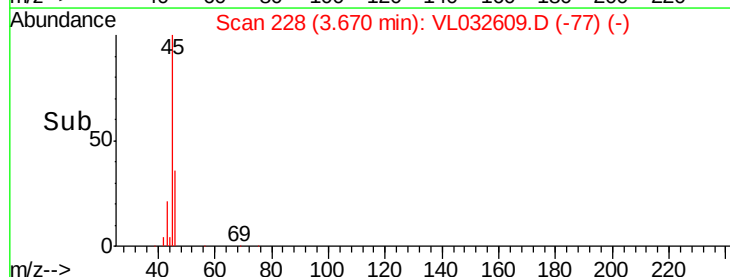
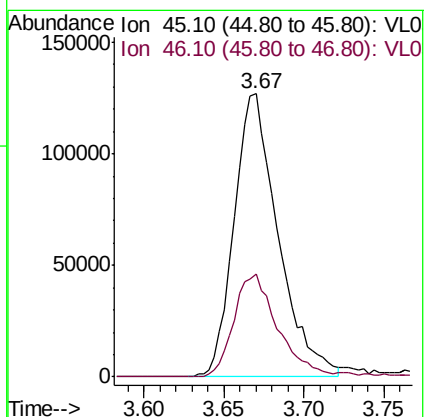
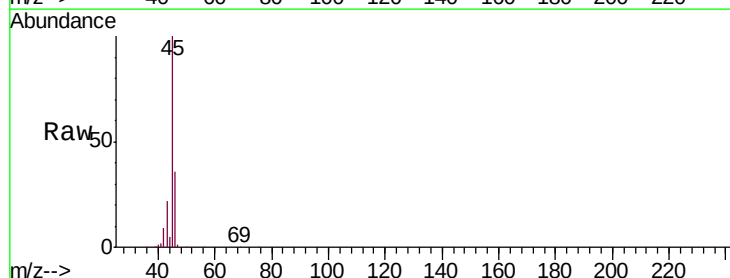
Acq: 11 Oct 2018 18:03

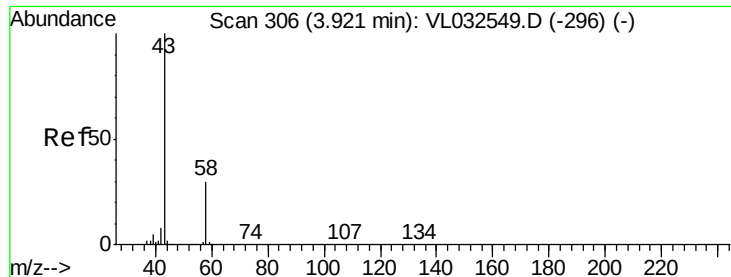
Tgt Ion: 45 Resp: 238248

Ion Ratio Lower Upper

45 100

46 37.2 14.2 56.8





#15

Acetone

Concen: 43.053 ppbv

RT: 3.91 min Scan# 304

Delta R.T. -0.02 min

Lab File: VL032609.D

Acq: 11 Oct 2018 18:03

Instrument :

MSVOA_L

ClientSampleId :

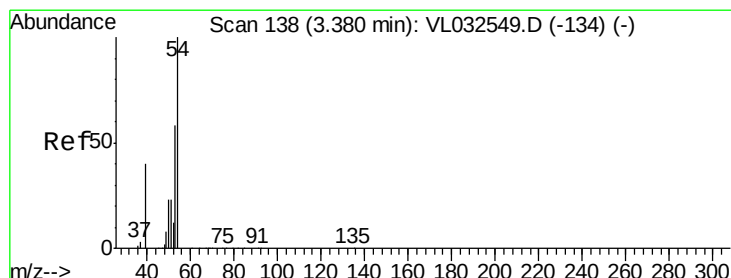
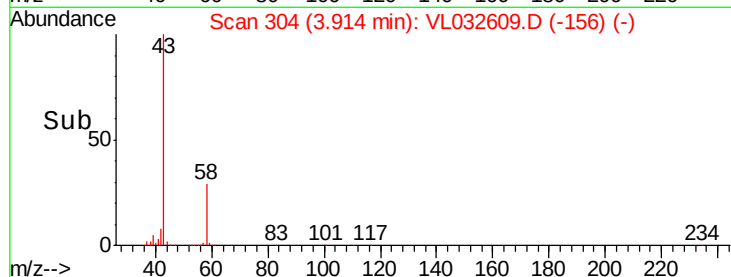
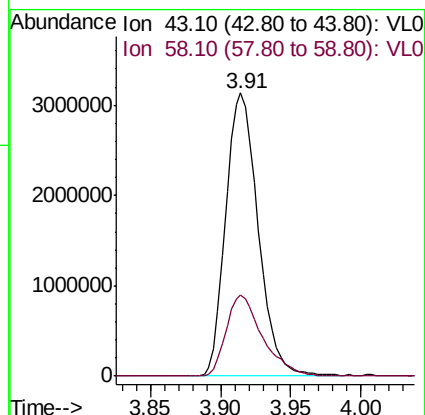
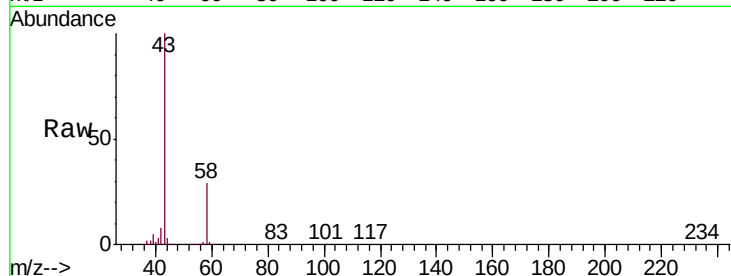
AMBIENT-SVI-100518

Tgt Ion: 43 Resp: 5032978

Ion Ratio Lower Upper

43 100

58 32.5 22.6 33.8



#16

1,3-Butadiene

Concen: 0.818 ppbv

RT: 3.41 min Scan# 147

Delta R.T. 0.01 min

Lab File: VL032609.D

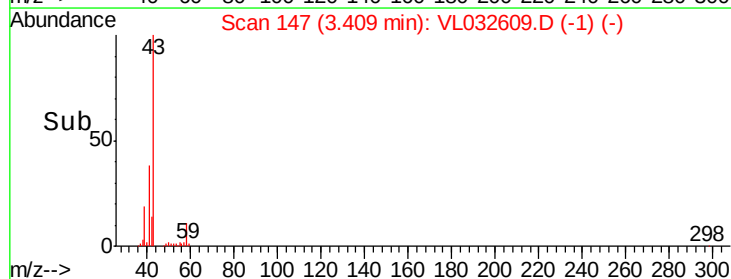
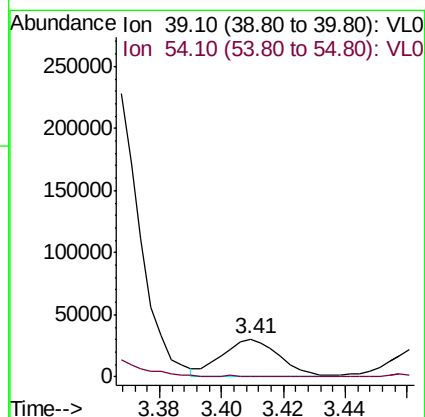
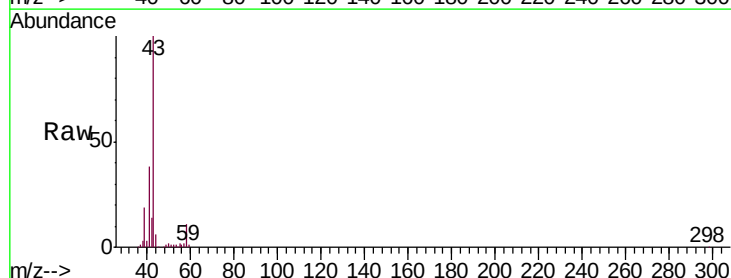
Acq: 11 Oct 2018 18:03

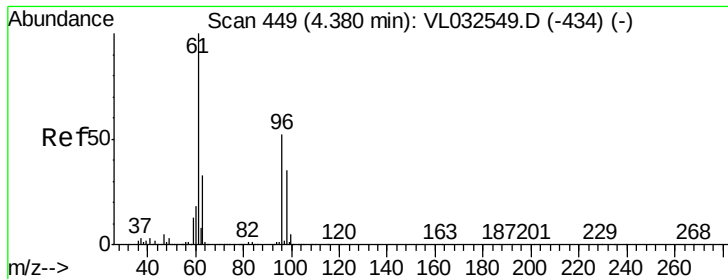
Tgt Ion: 39 Resp: 38782

Ion Ratio Lower Upper

39 100

54 0.0 80.8 121.2#



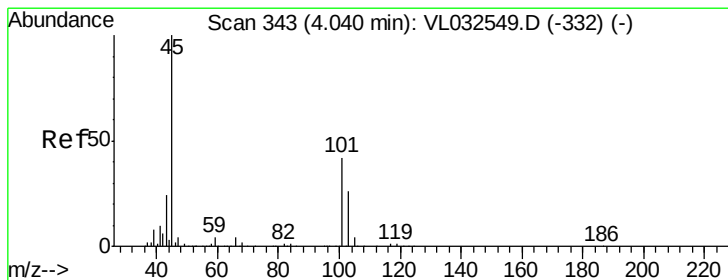
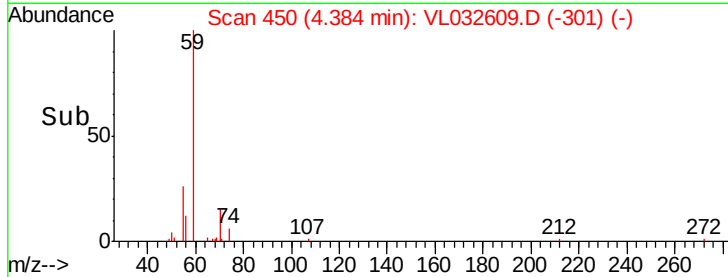
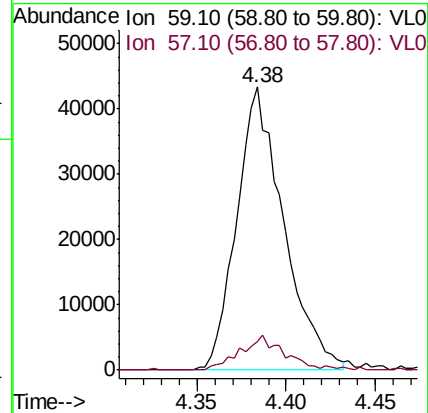
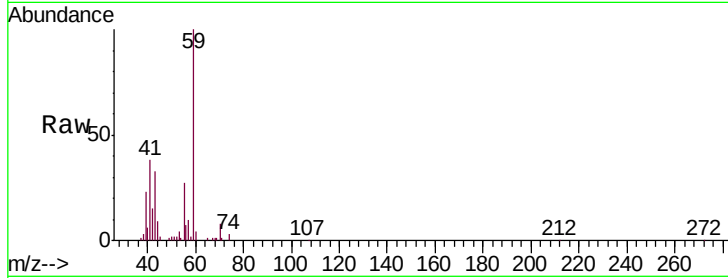


#17

tert-Butyl alcohol
 Concen: 5.415 ppbv
 RT: 4.38 min Scan# 450
 Delta R.T. -0.02 min
 Lab File: VL032609.D
 Acq: 11 Oct 2018 18:03

Instrument :
 MSVOA_L
 ClientSampleId :
 AMBIENT-SVI-100518

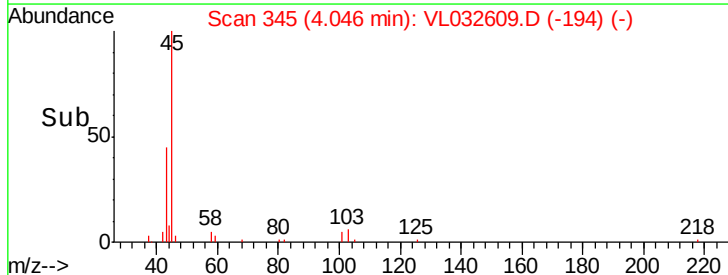
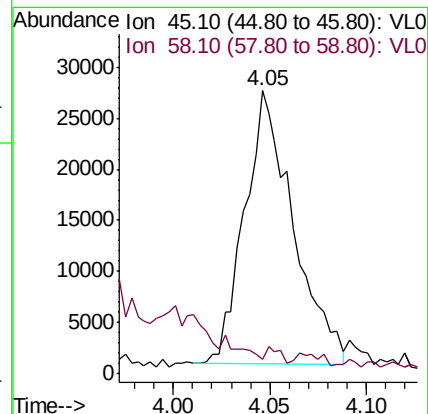
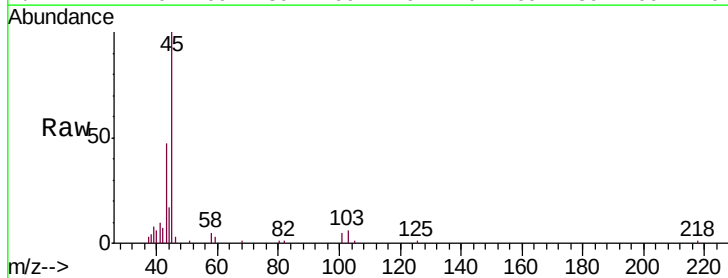
Tgt Ion: 59 Resp: 79540
 Ion Ratio Lower Upper
 59 100
 57 11.8 0.0 0.0#

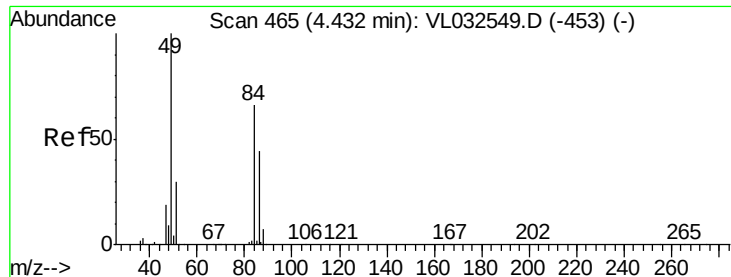


#19

Isopropyl Alcohol
 Concen: 0.572 ppbv
 RT: 4.05 min Scan# 345
 Delta R.T. -0.01 min
 Lab File: VL032609.D
 Acq: 11 Oct 2018 18:03

Tgt Ion: 45 Resp: 46603
 Ion Ratio Lower Upper
 45 100
 58 0.0 2.0 3.0#

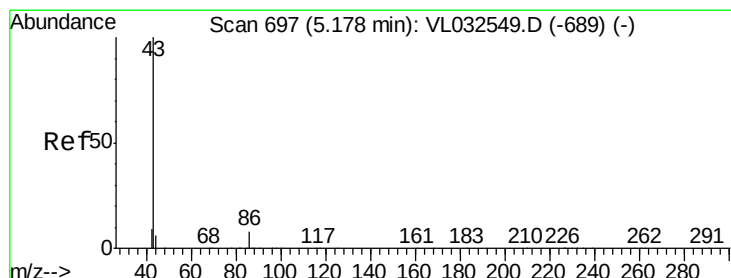
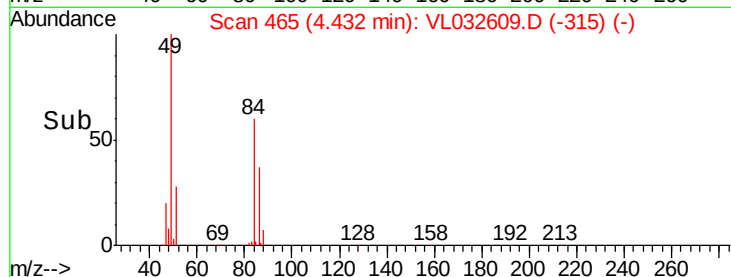
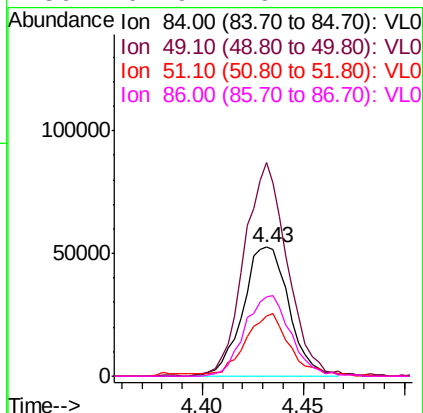
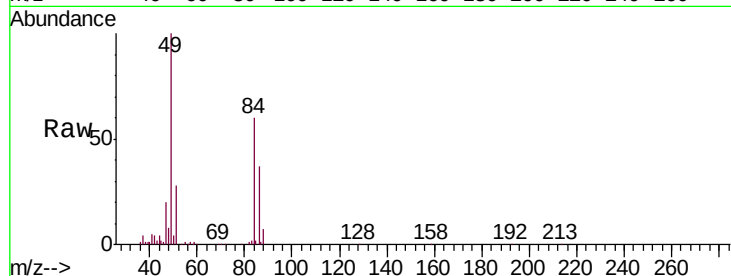




#20
Methylene Chloride
Concen: 1.480 ppbv
RT: 4.43 min Scan# 465
Delta R.T. -0.02 min
Lab File: VL032609.D
Acq: 11 Oct 2018 18:03

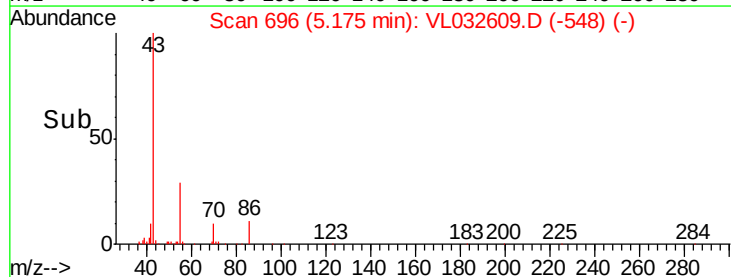
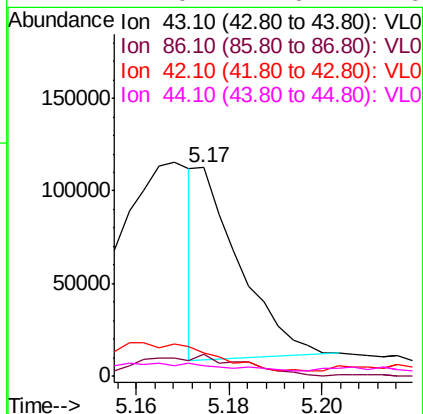
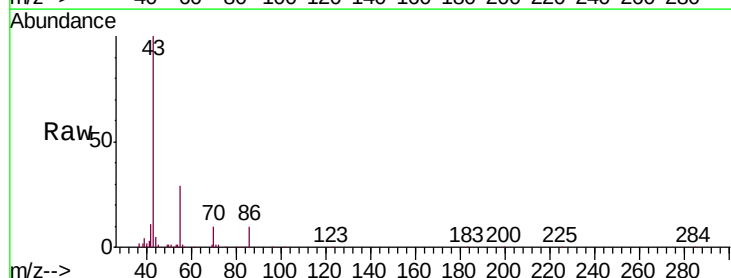
Instrument :
MSVOA_L
ClientSampleId :
AMBIENT-SVI-100518

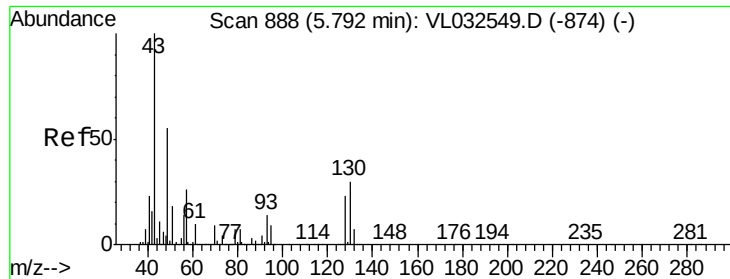
Tgt Ion:	84	Resp:	83794
Ion	Ratio	Lower	Upper
84	100		
49	165.9	119.1	178.7
51	45.3	35.2	52.8
86	61.9	49.4	74.2



#23
Vinyl Acetate
Concen: 0.319 ppbv
RT: 5.17 min Scan# 696
Delta R.T. -0.02 min
Lab File: VL032609.D
Acq: 11 Oct 2018 18:03

Tgt Ion:	43	Resp:	65939
Ion	Ratio	Lower	Upper
43	100		
86	10.8	5.9	8.9#
42	7.0	6.9	10.3
44	1.0	4.6	7.0#

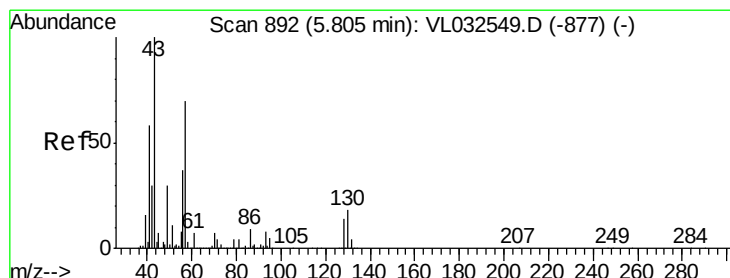
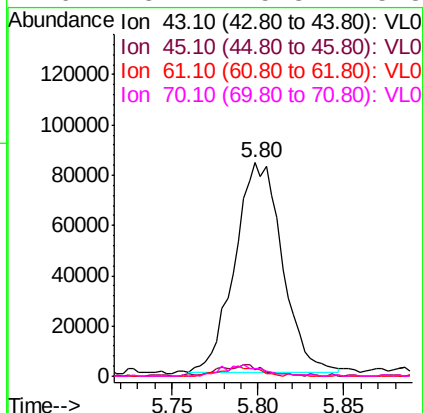
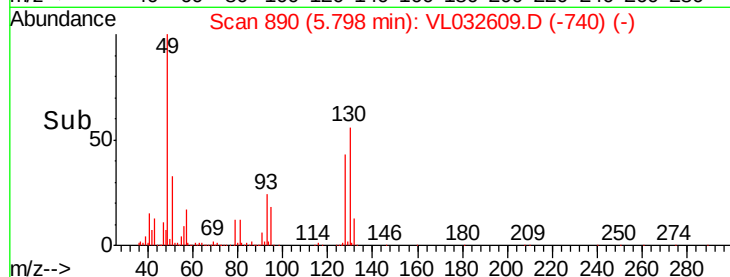
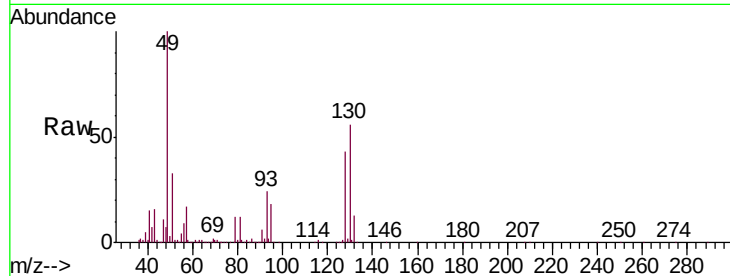




#25
Ethyl Acetate
Concen: 0.562 ppbv
RT: 5.80 min Scan# 890
Delta R.T. -0.02 min
Lab File: VL032609.D
Acq: 11 Oct 2018 18:03

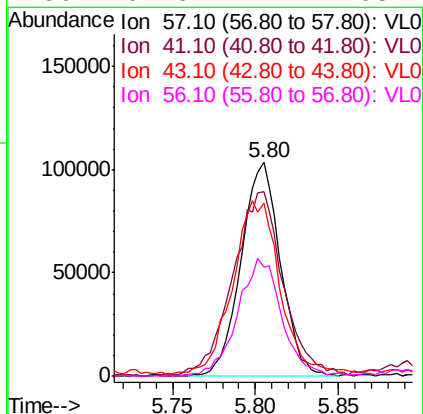
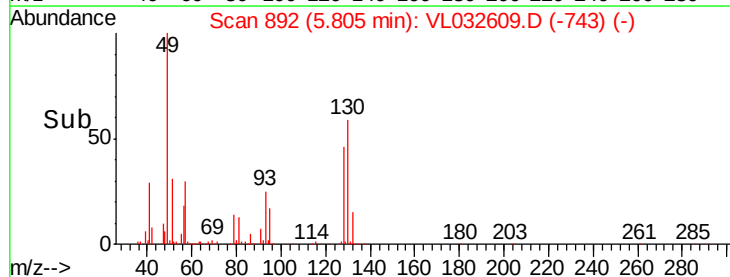
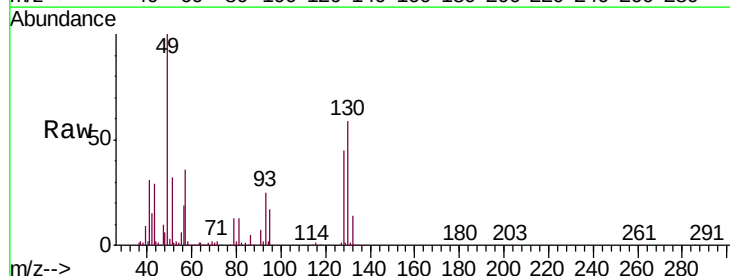
Instrument :
MSVOA_L
ClientSampleId :
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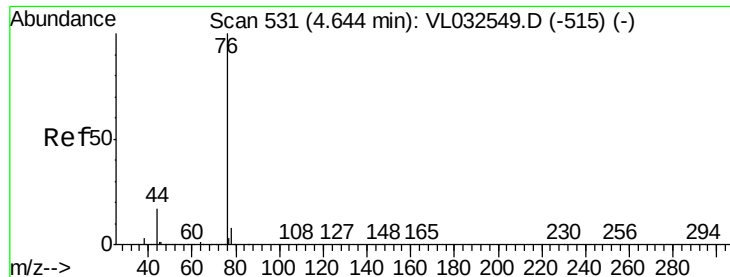
Tgt Ion:	43	Resp:	159389
Ion	Ratio	Lower	Upper
43	100		
45	5.9	8.0	12.0#
61	4.3	7.6	11.4#
70	5.1	5.8	8.8#



#26
Hexane
Concen: 1.333 ppbv
RT: 5.80 min Scan# 892
Delta R.T. -0.02 min
Lab File: VL032609.D
Acq: 11 Oct 2018 18:03

Tgt Ion:	57	Resp:	170815
Ion	Ratio	Lower	Upper
57	100		
41	108.9	69.0	103.4#
43	95.6	172.1	258.1#
56	61.6	42.2	63.2





#27

Carbon Disulfide

Concen: 0.099 ppbv

RT: 4.64 min Scan# 530

Delta R.T. -0.02 min

Lab File: VL032609.D

Acq: 11 Oct 2018 18:03

Instrument :

MSVOA_L

ClientSampleId :

AMBIENT-SVI-100518

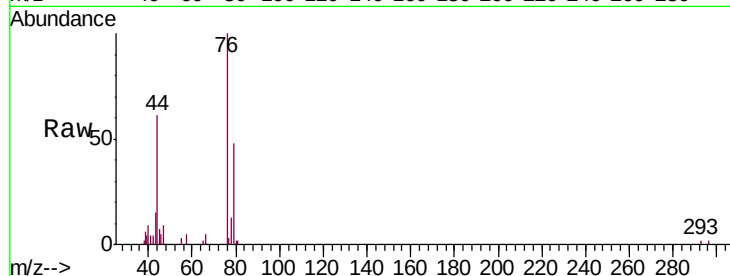
Tgt Ion: 76 Resp: 13663

Ion Ratio Lower Upper

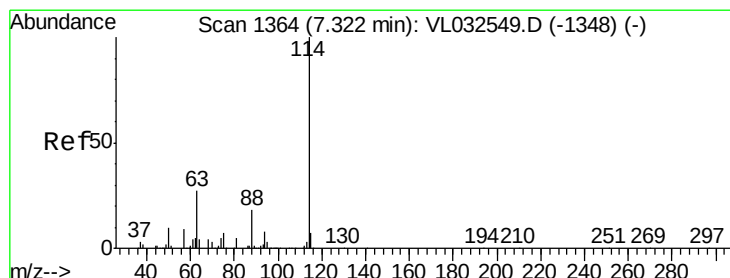
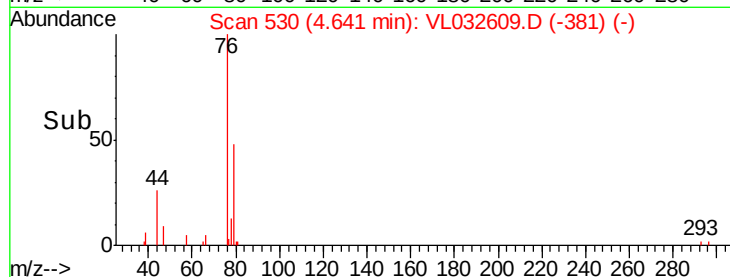
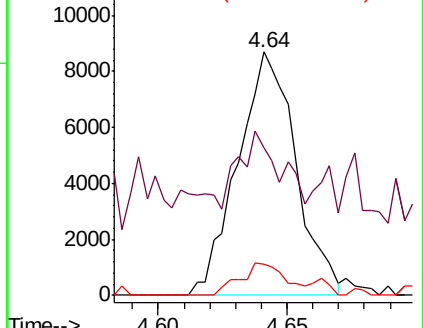
76 100

44 32.0 14.0 21.0#

78 13.0 7.5 11.3#



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.32 min Scan# 1363

Delta R.T. -0.03 min

Lab File: VL032609.D

Acq: 11 Oct 2018 18:03

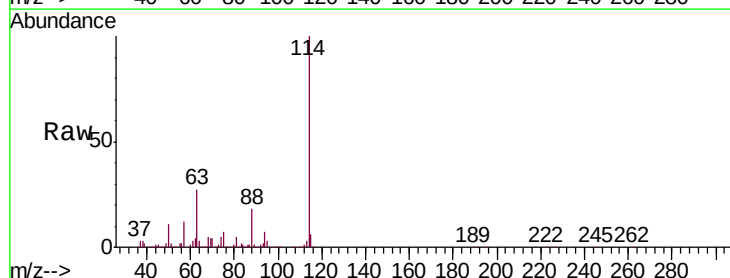
Tgt Ion: 114 Resp: 2687016

Ion Ratio Lower Upper

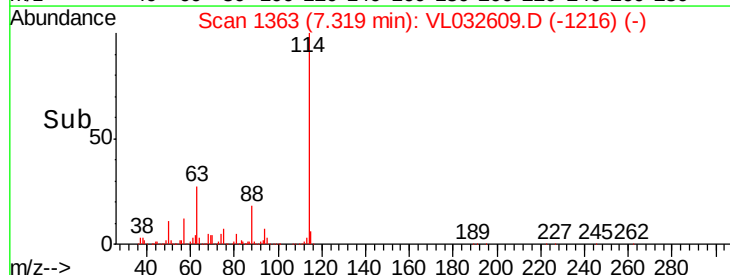
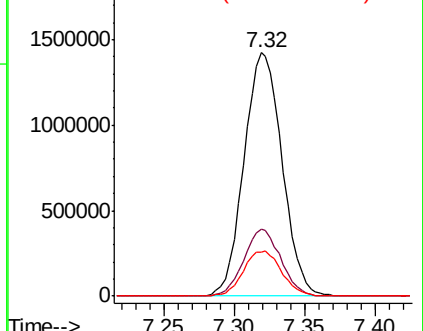
114 100

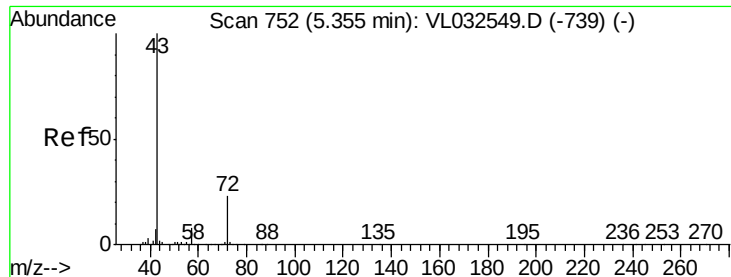
63 26.7 22.2 33.4

88 18.6 15.0 22.4



Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0

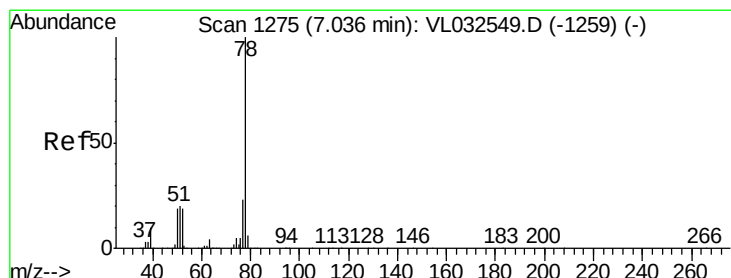
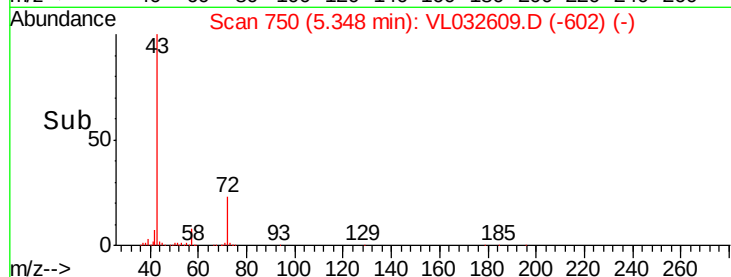
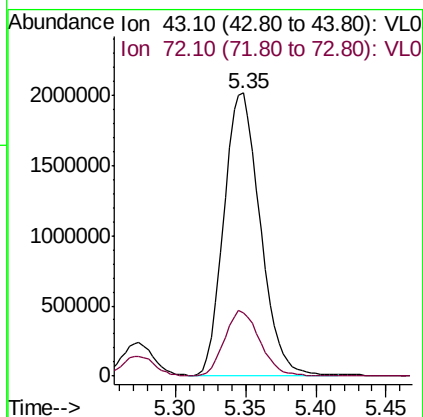
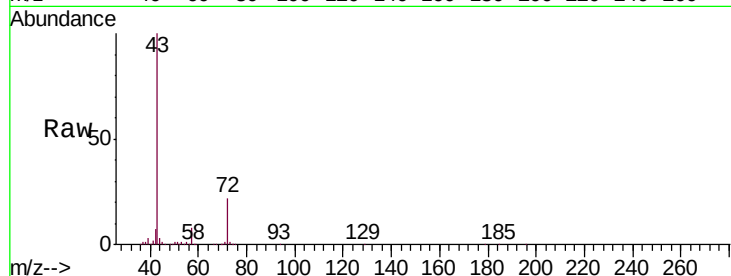




#34
2-Butanone
Concen: 22.553 ppbv
RT: 5.35 min Scan# 750
Delta R.T. -0.02 min
Lab File: VL032609.D
Acq: 11 Oct 2018 18:03

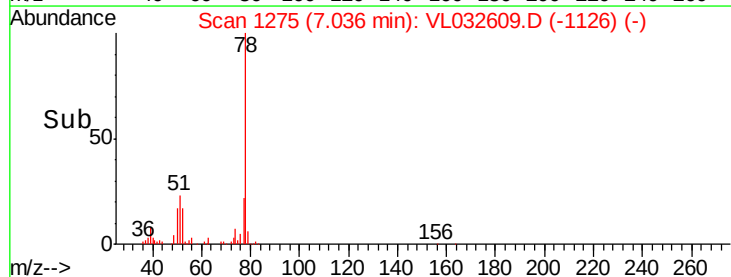
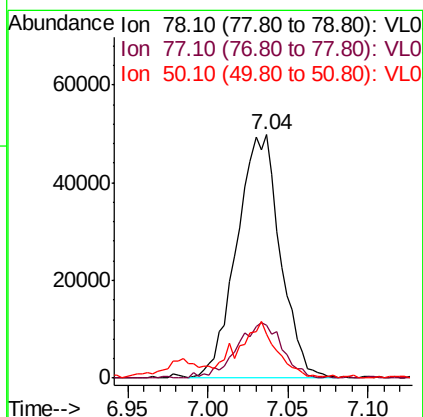
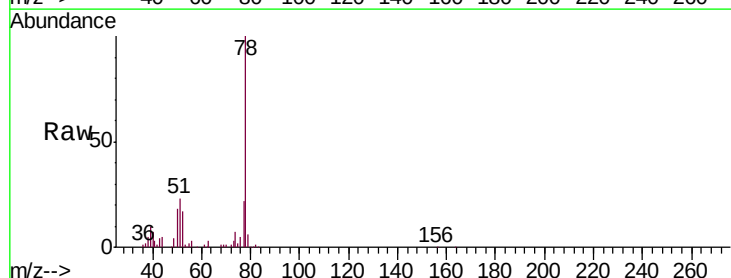
Instrument :
MSVOA_L
ClientSampleId :
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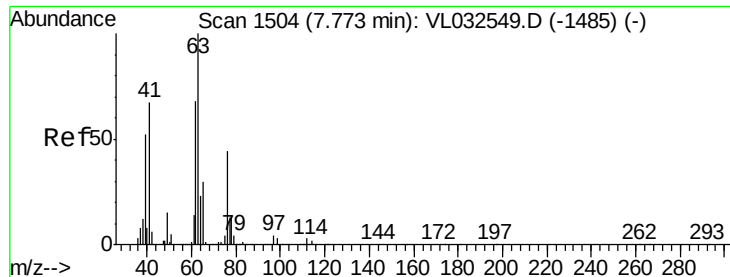
Tgt Ion: 43 Resp: 3608805
Ion Ratio Lower Upper
43 100
72 22.8 17.8 26.6



#36
Benzene
Concen: 0.422 ppbv
RT: 7.04 min Scan# 1275
Delta R.T. -0.02 min
Lab File: VL032609.D
Acq: 11 Oct 2018 18:03

Tgt Ion: 78 Resp: 91614
Ion Ratio Lower Upper
78 100
77 21.7 18.4 27.6
50 16.6 14.4 21.6





#39

1,2-Dichloropropane

Concen: 7.299 ppbv

RT: 7.32 min Scan# 1363

Delta R.T. -0.47 min

Lab File: VL032609.D

Acq: 11 Oct 2018 18:03

Instrument :

MSVOA_L

ClientSampleId :

AMBIENT-SVI-100518

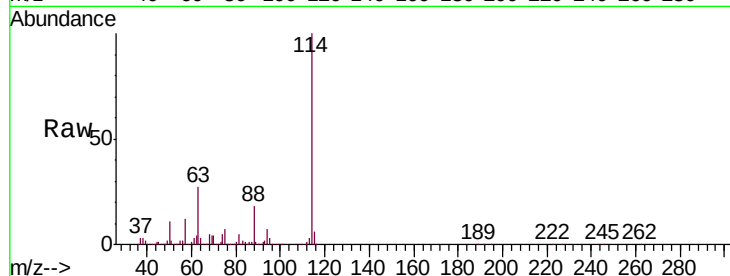
Tgt Ion: 63 Resp: 714269

Ion Ratio Lower Upper

63 100

41 0.0 55.4 83.0#

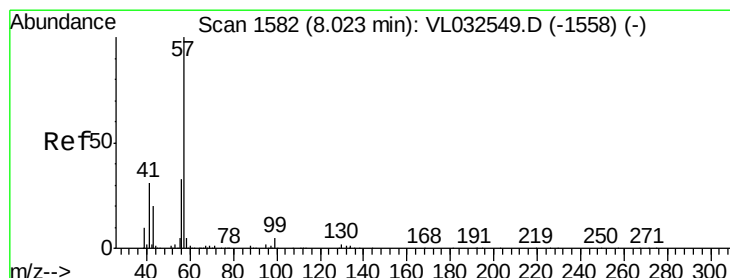
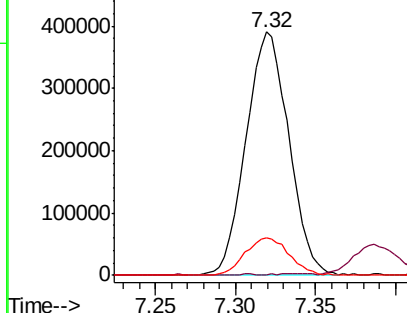
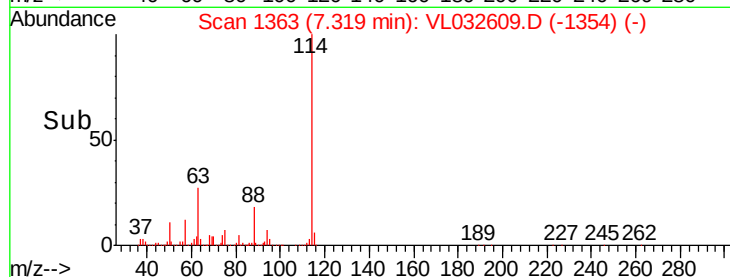
62 15.4 55.4 83.0#



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#44

2,2,4-Trimethylpentane

Concen: 0.031 ppbv

RT: 8.02 min Scan# 1580

Delta R.T. -0.03 min

Lab File: VL032609.D

Acq: 11 Oct 2018 18:03

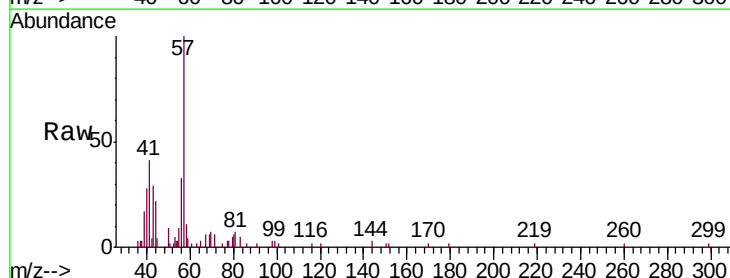
Tgt Ion: 57 Resp: 13011

Ion Ratio Lower Upper

57 100

41 90.5 24.4 36.6#

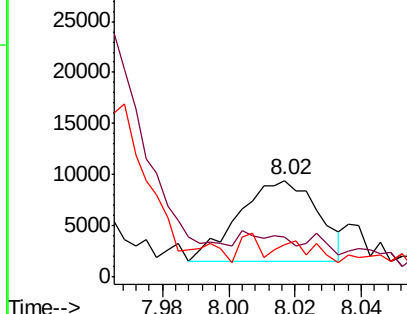
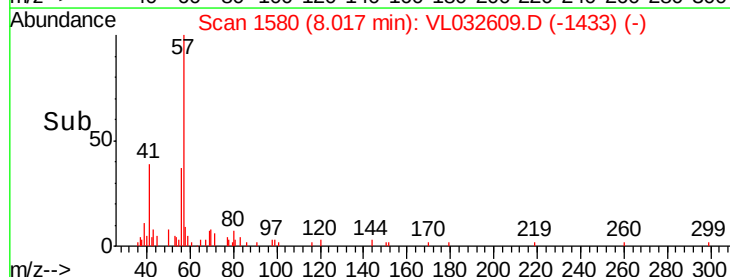
56 65.1 25.7 38.5#

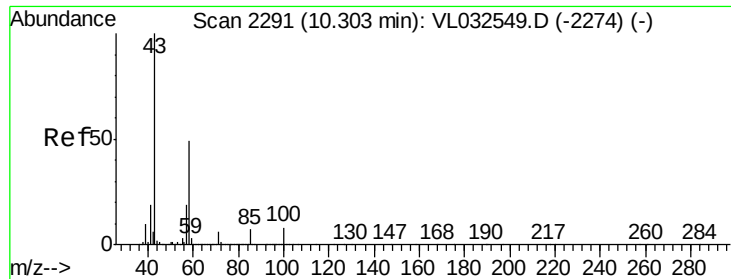


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0

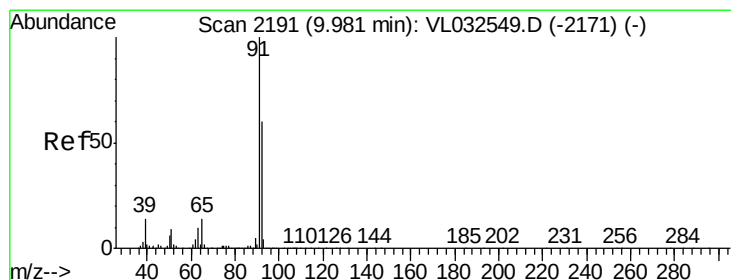
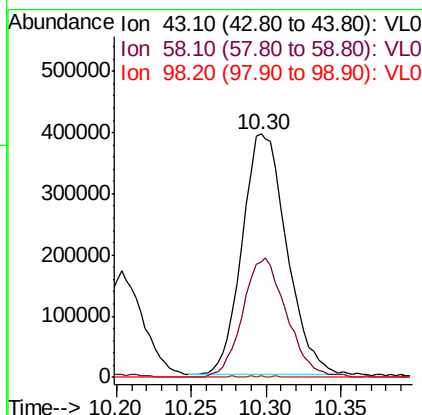
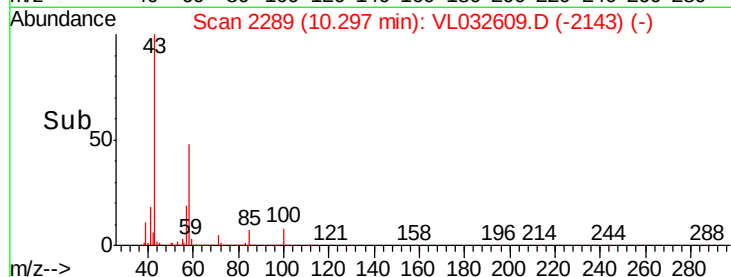
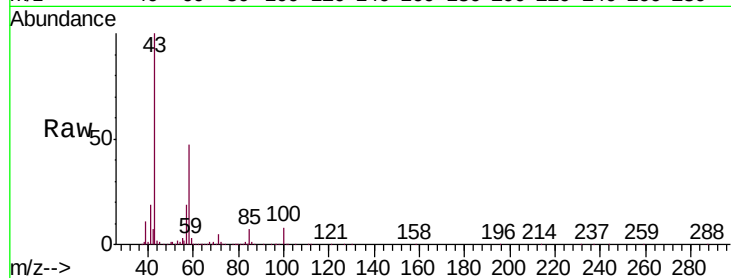




#51
2-Hexanone
Concen: 3.936 ppbv
RT: 10.30 min Scan# 2289
Delta R.T. -0.03 min
Lab File: VL032609.D
Acq: 11 Oct 2018 18:03

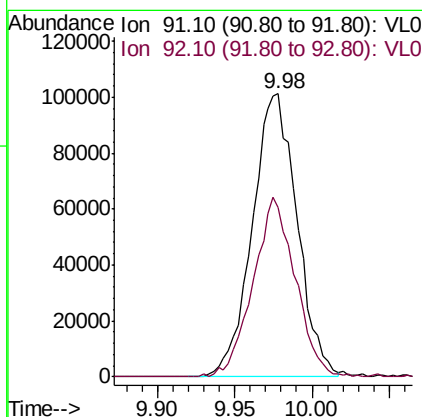
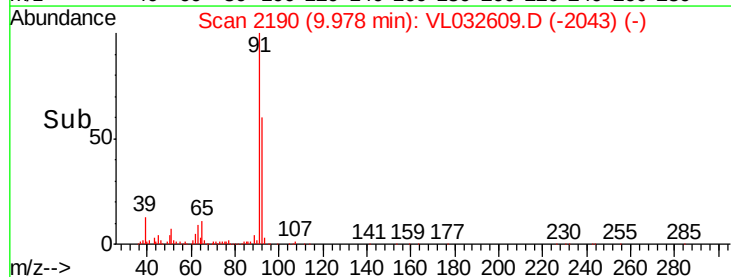
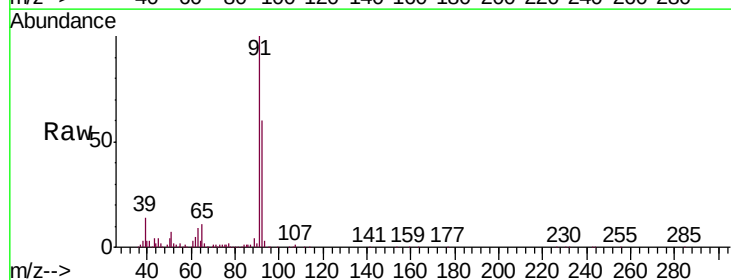
Instrument :
MSVOA_L
ClientSampleId :
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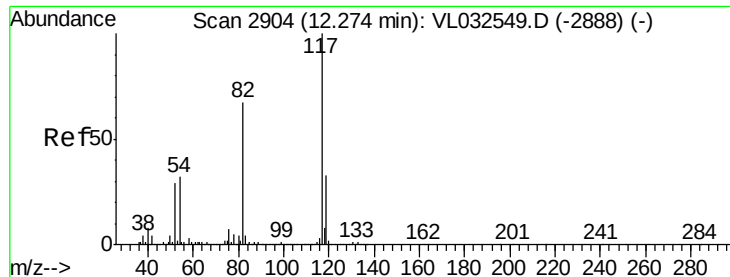
Tgt Ion: 43 Resp: 818761
Ion Ratio Lower Upper
43 100
58 49.2 39.2 58.8
98 0.9 0.4 0.6#



#53
Toluene
Concen: 0.769 ppbv
RT: 9.98 min Scan# 2190
Delta R.T. -0.03 min
Lab File: VL032609.D
Acq: 11 Oct 2018 18:03

Tgt Ion: 91 Resp: 203558
Ion Ratio Lower Upper
91 100
92 60.2 48.1 72.1





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.27 min Scan# 2902

Delta R.T. -0.03 min

Lab File: VL032609.D

Acq: 11 Oct 2018 18:03

Instrument :

MSVOA_L

ClientSampleId :

AMBIENT-SVI-100518

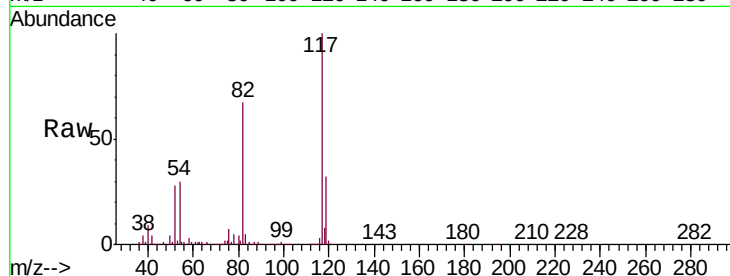
Tgt Ion:117 Resp: 2962683

Ion Ratio Lower Upper

117 100

82 67.8 53.0 79.6

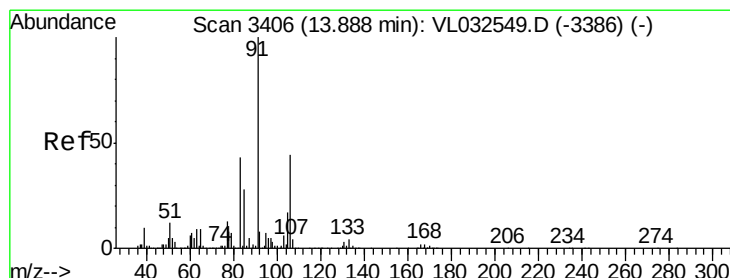
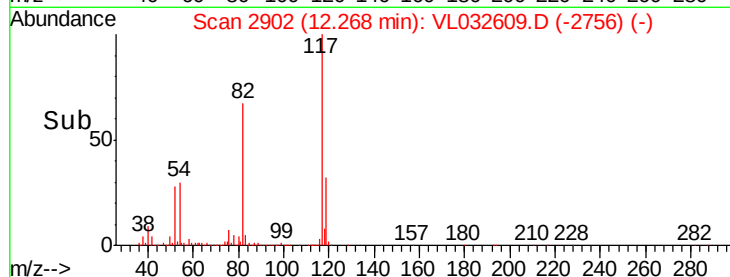
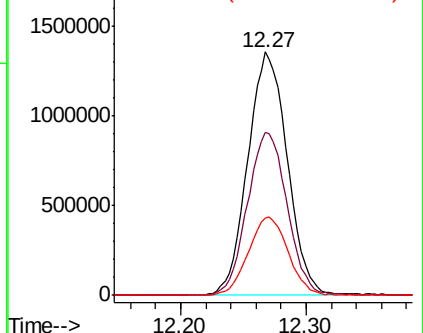
119 32.4 45.9 68.9#



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#60

o-Xylene

Concen: 0.037 ppbv

RT: 13.87 min Scan# 3401

Delta R.T. -0.04 min

Lab File: VL032609.D

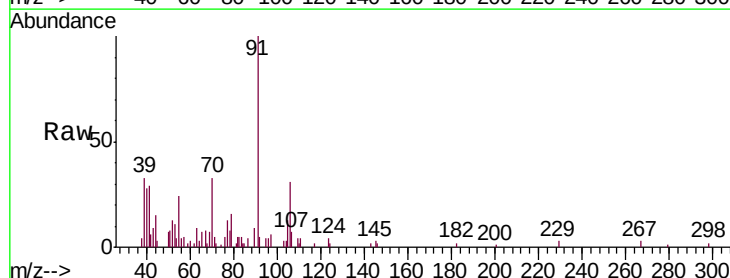
Acq: 11 Oct 2018 18:03

Tgt Ion: 91 Resp: 11374

Ion Ratio Lower Upper

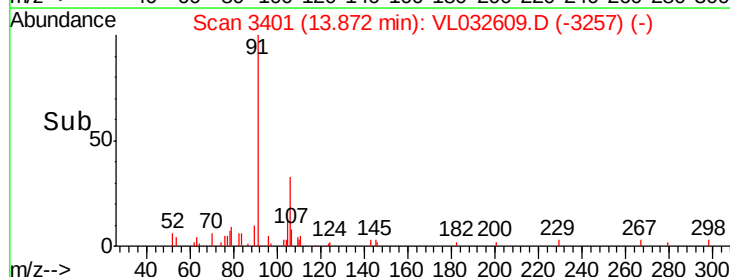
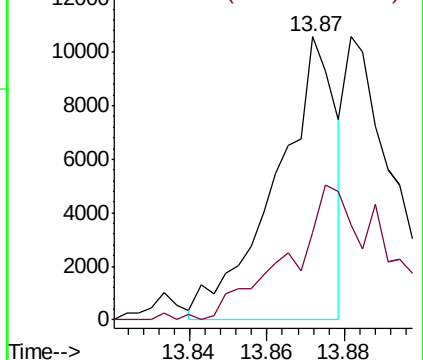
91 100

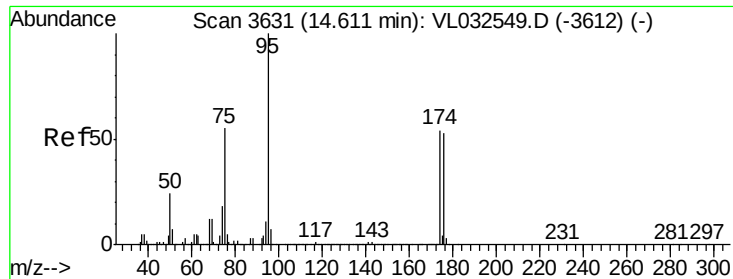
106 77.5 21.9 65.7#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 9.689 ppbv

RT: 14.61 min Scan# 3629

Delta R.T. -0.03 min

Lab File: VL032609.D

Acq: 11 Oct 2018 18:03

Instrument :

MSVOA_L

ClientSampleId :

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Tgt Ion: 95 Resp: 2164747

Ion Ratio Lower Upper

95 100

174 56.8 46.3 69.5

175 4.1 3.4 5.0

