

Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL122017\
 Data File : VL031277.D
 Acq On : 20 Dec 2017 20:03
 Operator : SY/AP
 Sample : I7005-03
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 EP1-SV-2

Quant Time: Dec 21 08:38:08 2017
 Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL121317AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Dec 14 04:29:58 2017
 QLast Update : Thu Dec 14 04:29:58 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.91	49	1630312	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.46	114	3846595	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.43	117	3551137	10.00	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.76	95	3333534	13.20	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	132.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.18	85	36681	0.27	ppbv	90
3) Chlorodifluoromethane	3.12	51	32964	0.18	ppbv #	90
4) Chloromethane	3.26	50	22819	0.23	ppbv #	56
9) Propene	3.14	41	765777	8.42	ppbv	94
10) Heptane	8.41	43	286646	1.04	ppbv	99
11) Trichlorofluoromethane	4.13	101	88158	0.39	ppbv	89
12) 1,1,2-Trichlorotrifluoroet	4.68	101	6596	0.04	ppbv #	26
13) Ethanol	3.77	45	377643	14.39	ppbv	99
15) Acetone	4.02	43	3897122	18.11	ppbv #	70
16) 1,3-Butadiene	3.46	39	1568876	16.95	ppbv #	14
17) tert-Butyl alcohol	4.49	59	665101	5.51	ppbv	97
19) Isopropyl Alcohol	4.15	45	56922	0.42	ppbv #	41
20) Methylene Chloride	4.54	84	21818	0.31	ppbv	96
21) Allyl Chloride	4.56	41	7689	0.06	ppbv #	1
23) Vinyl Acetate	5.33	43	151073	0.44	ppbv #	45
25) Ethyl Acetate	5.93	43	210091	0.48	ppbv #	82
26) Hexane	5.93	57	279441	1.34	ppbv #	9
27) Carbon Disulfide	4.76	76	197281	0.94	ppbv	97
29) Chloroform	6.00	83	7811729	27.75	ppbv	95
30) Cyclohexane	7.41	84	46786	0.25	ppbv #	68
31) cis-1,2-Dichloroethene	5.79	61	7415	0.04	ppbv #	78
32) 1,1,1-Trichloroethane	6.78	97	31131	0.10	ppbv	97
34) 2-Butanone	5.47	43	9052649	33.32	ppbv	97
36) Benzene	7.17	78	351529	0.86	ppbv	97
38) Trichloroethene	8.13	130	317575	2.00	ppbv	97
39) 1,2-Dichloropropane	7.45	63	984568	6.83	ppbv #	27
41) Tetrahydrofuran	6.31	42	21214	0.14	ppbv #	38
42) Bromodichloromethane	8.09	83	57641	0.22	ppbv	91
44) 2,2,4-Trimethylpentane	8.16	57	238994	0.39	ppbv #	71
47) 1,1,2-Trichloroethane	9.88	97	102401	0.68	ppbv #	54
50) 4-Methyl-2-Pentanone	9.06	43	129304	0.39	ppbv	97
51) 2-Hexanone	10.43	43	3083263	9.72	ppbv #	54
52) Tetrachloroethene	11.57	164	12415312	82.55	ppbv	95
57) Chlorobenzene	12.53	112	3035996	9.17	ppbv #	32
58) Ethyl Benzene	13.05	91	6880942	11.74	ppbv	100
59) m/p-Xylene	13.31	91	16807117	35.81	ppbv	97
60) o-Xylene	14.04	91	6780680	14.33	ppbv	100
61) Styrene	13.87	104	103512	0.76	ppbv #	57
62) Isopropylbenzene	15.01	105	253878	0.41	ppbv	99
63) 1,1,2,2-Tetrachloroethane	14.01	83	325812	1.03	ppbv #	58
64) n-propylbenzene	15.91	120	68814	0.42	ppbv #	54

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Quant Time: Dec 21 08:38:08 2017
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Dec 14 04:29:58 2017
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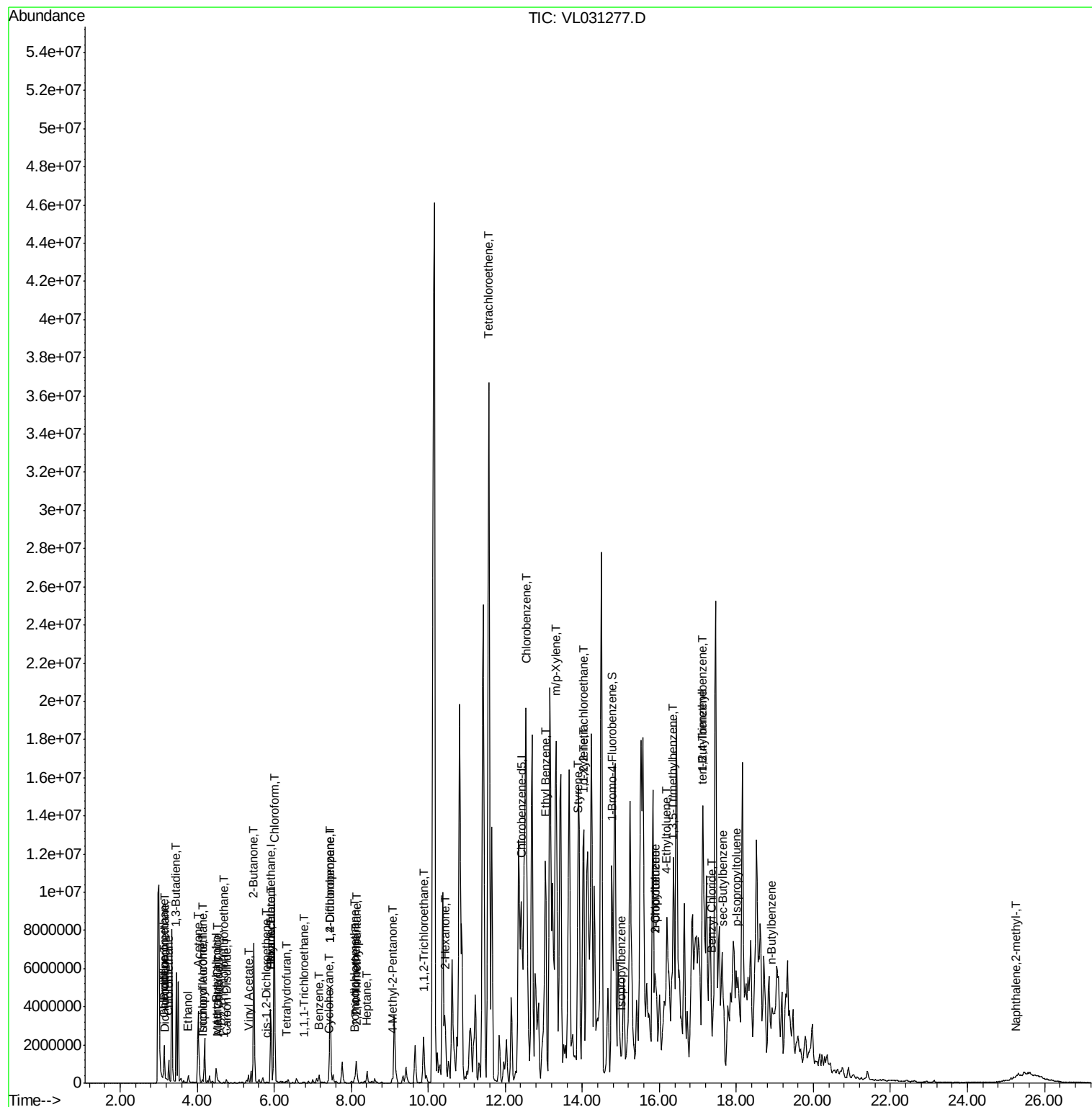
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) tert-Butylbenzene	17.11	119	45198	0.08	ppbv #	20
66) Benzyl Chloride	17.36	91	3170	0.05	ppbv #	64
67) sec-Butylbenzene	17.65	105	27914	0.04	ppbv #	49
69) p-Isopropyltoluene	18.00	119	28610	0.05	ppbv #	1
70) n-Butylbenzene	18.91	91	30386	0.05	ppbv #	1
71) 2-Chlorotoluene	15.91	91	385587	0.84	ppbv	87
72) 4-Ethyltoluene	16.19	105	306102	0.59	ppbv #	95
73) 1,3,5-Trimethylbenzene	16.35	105	375585	0.81	ppbv	95
74) 1,2,4-Trimethylbenzene	17.11	105	740812	1.53	ppbv #	74
80) Naphthalene,2-methyl-	25.25	142	5192	0.04	ppbv	96

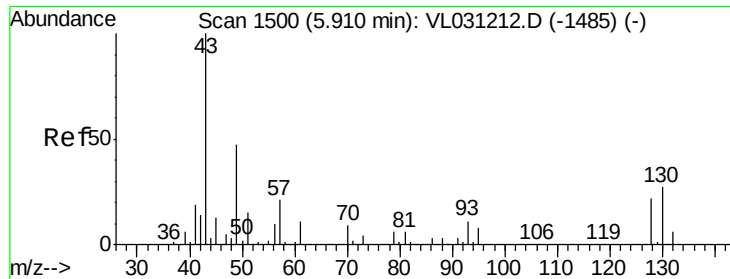
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Dec 14 04:29:58 2017
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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.91 min Scan# 1501

Delta R.T. 0.00 min

Lab File: VL031277.D

Acq: 20 Dec 2017 20:03

Instrument :

MSVOA_L

ClientSampleId :

EP1-SV-2

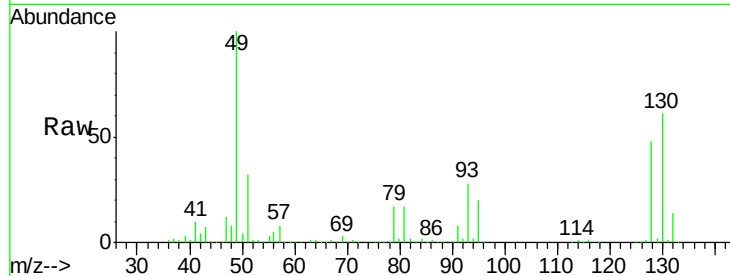
Tgt Ion: 49 Resp: 1630312

Ion Ratio Lower Upper

49 100

128 47.0 23.2 69.5

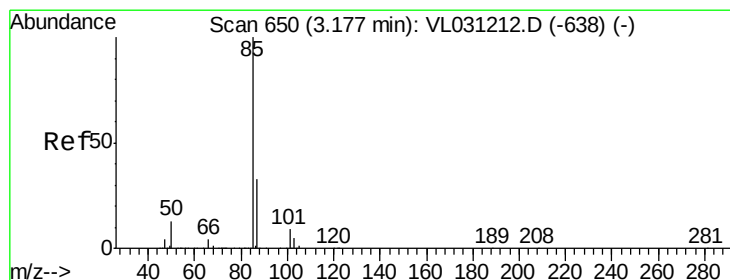
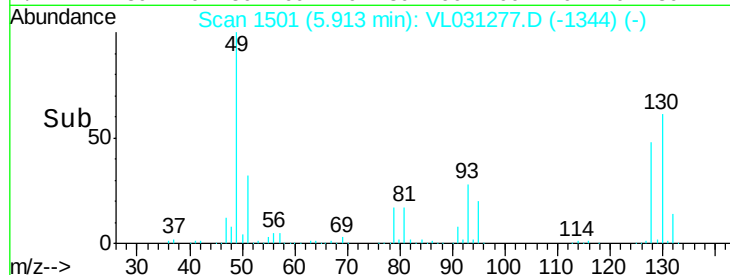
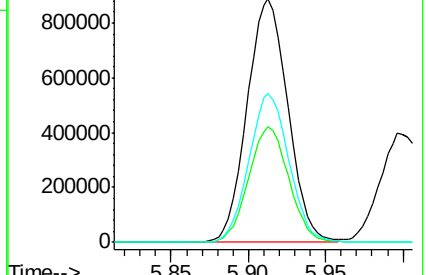
130 60.5 29.6 88.8



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.27 ppbv

RT: 3.18 min Scan# 651

Delta R.T. 0.00 min

Lab File: VL031277.D

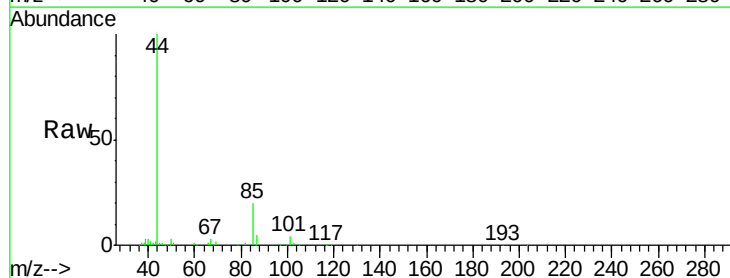
Acq: 20 Dec 2017 20:03

Tgt Ion: 85 Resp: 36681

Ion Ratio Lower Upper

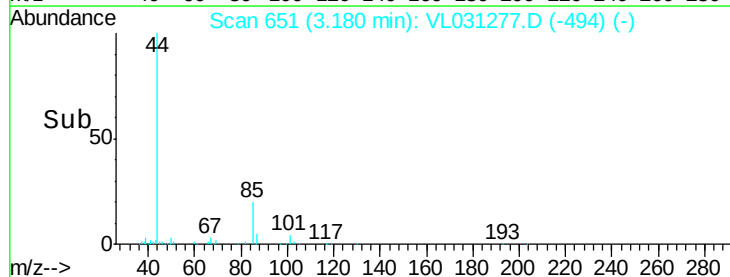
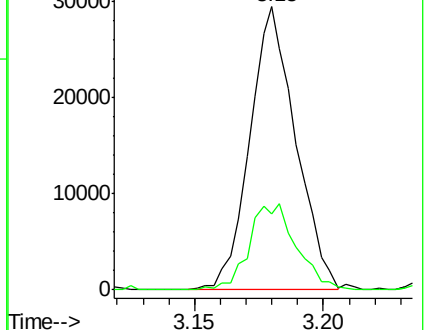
85 100

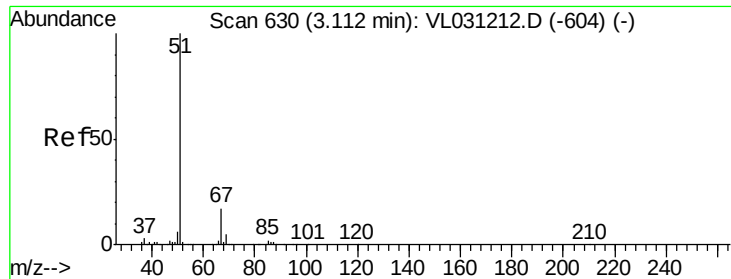
87 26.9 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.18 ppbv

RT: 3.12 min Scan# 632

Delta R.T. 0.01 min

Lab File: VL031277.D

Acq: 20 Dec 2017 20:03

Instrument :

MSVOA_L

ClientSampleId :

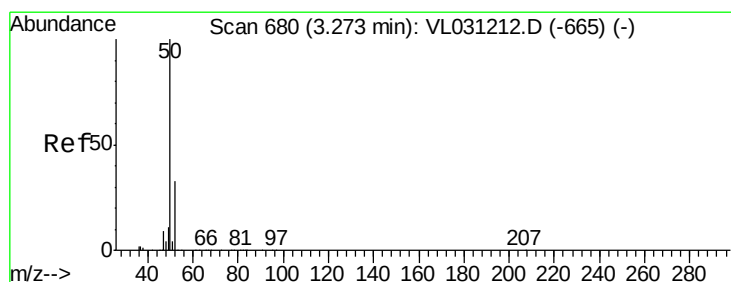
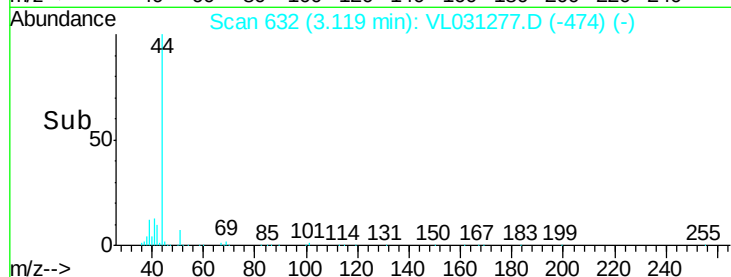
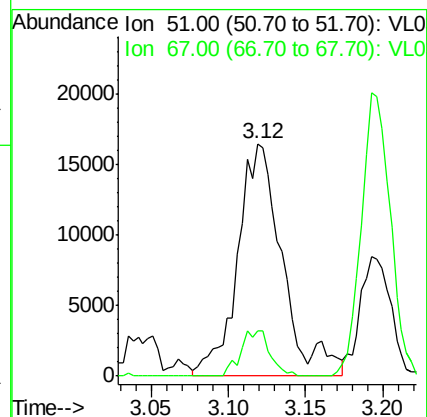
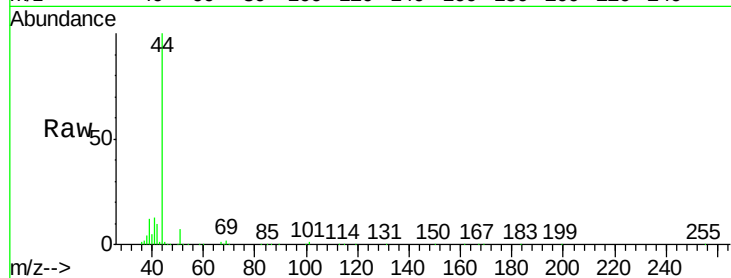
EP1-SV-2

Tgt Ion: 51 Resp: 32964

Ion Ratio Lower Upper

51 100

67 12.7 13.8 20.6#



#4

Chloromethane

Concen: 0.23 ppbv

RT: 3.26 min Scan# 677

Delta R.T. -0.01 min

Lab File: VL031277.D

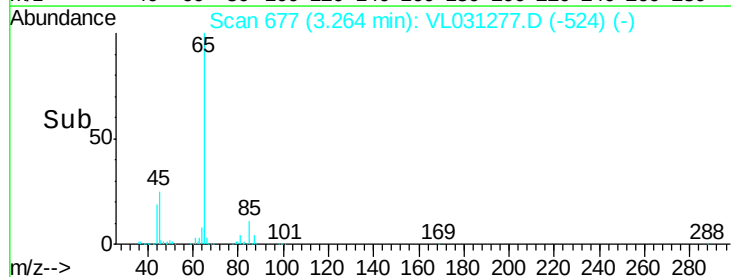
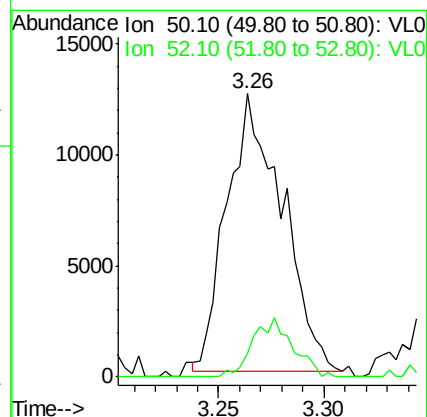
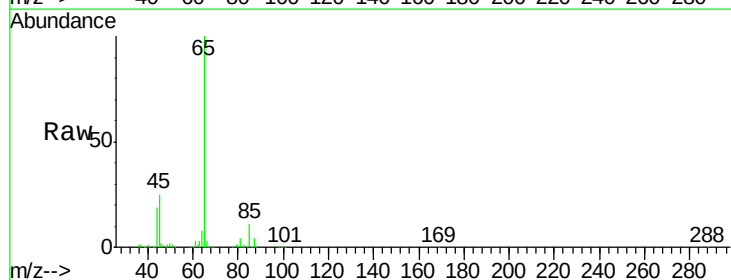
Acq: 20 Dec 2017 20:03

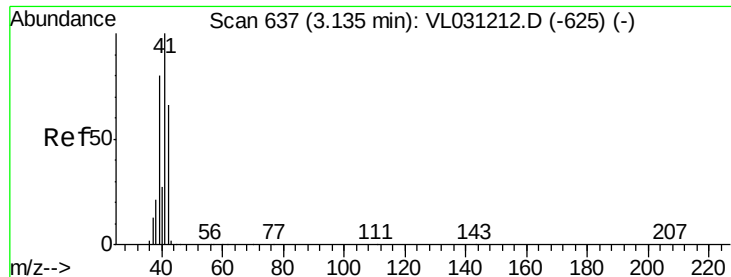
Tgt Ion: 50 Resp: 22819

Ion Ratio Lower Upper

50 100

52 8.3 26.5 39.7#





#9

Propene

Concen: 8.42 ppbv

RT: 3.14 min Scan# 639

Delta R.T. 0.01 min

Lab File: VL031277.D

Acq: 20 Dec 2017 20:03

Instrument :

MSVOA_L

ClientSampleId :

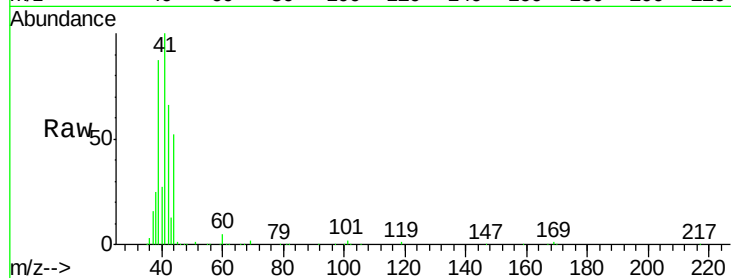
EP1-SV-2

Tgt Ion: 41 Resp: 765777

Ion Ratio Lower Upper

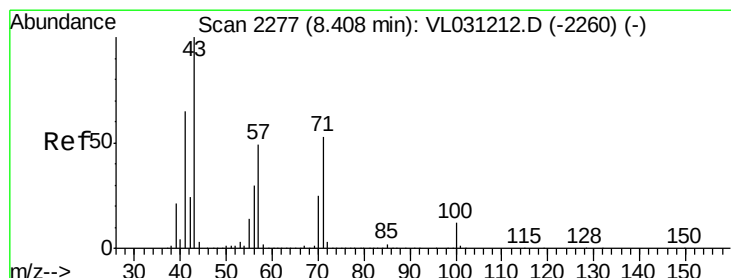
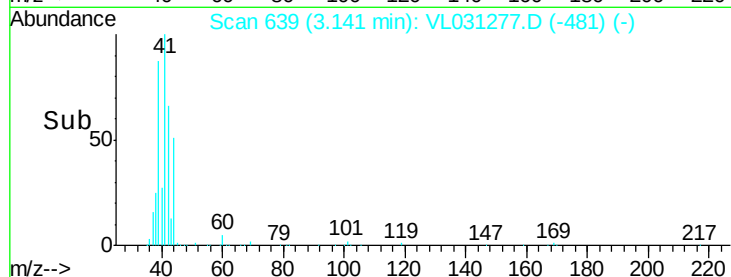
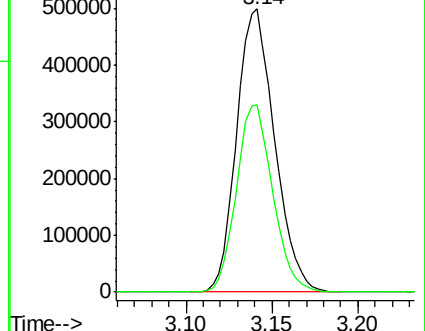
41 100

42 63.4 54.3 81.5



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 1.04 ppbv

RT: 8.41 min Scan# 2278

Delta R.T. 0.00 min

Lab File: VL031277.D

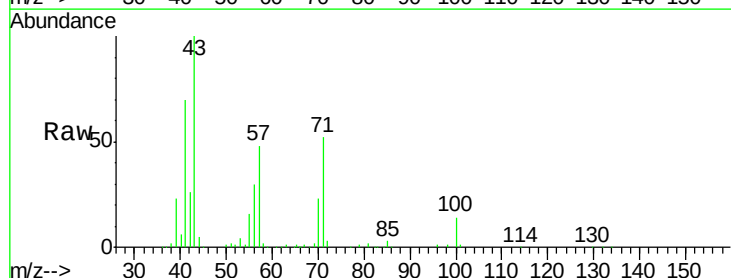
Acq: 20 Dec 2017 20:03

Tgt Ion: 43 Resp: 286646

Ion Ratio Lower Upper

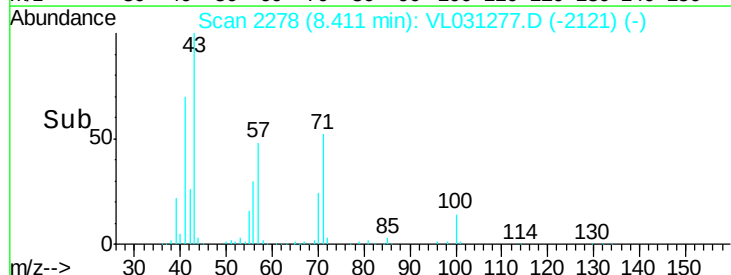
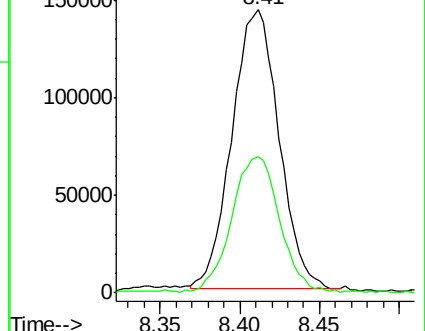
43 100

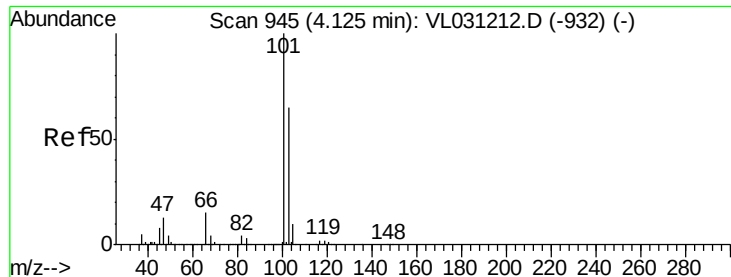
57 50.5 39.8 59.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

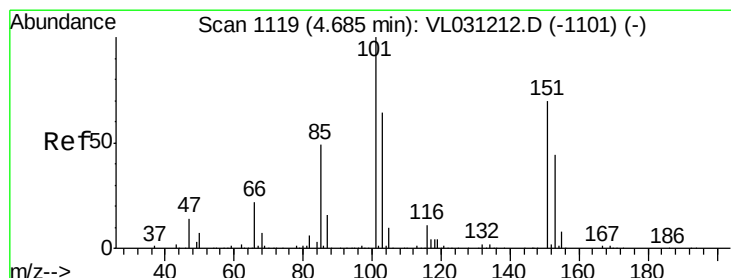
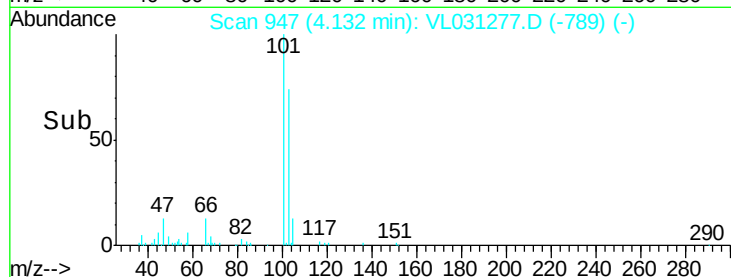
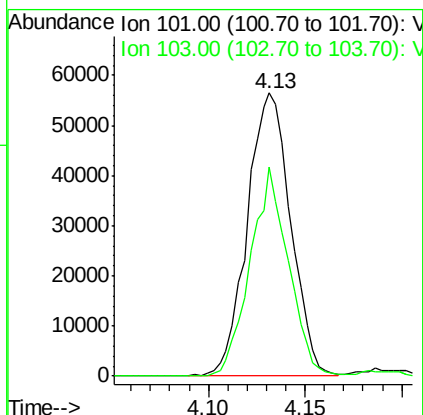
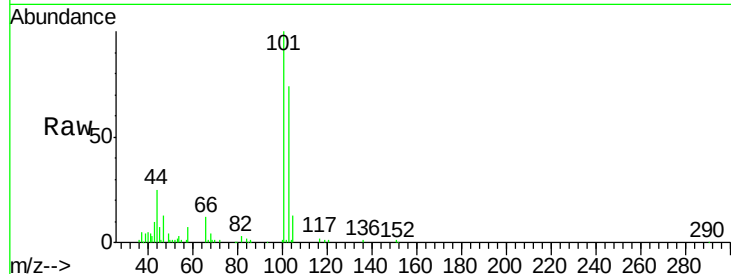




#11
 Trichlorofluoromethane
 Concen: 0.39 ppbv
 RT: 4.13 min Scan# 947
 Delta R.T. 0.01 min
 Lab File: VL031277.D
 Acq: 20 Dec 2017 20:03

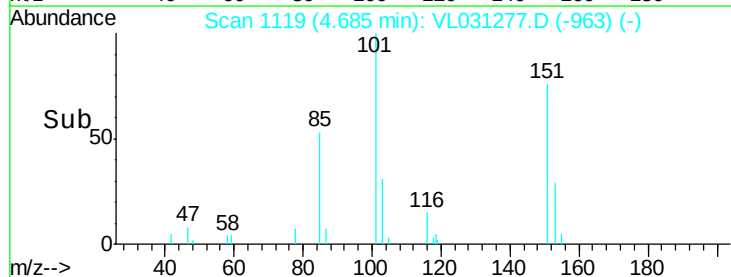
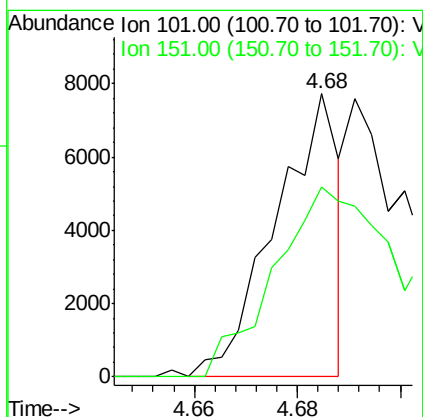
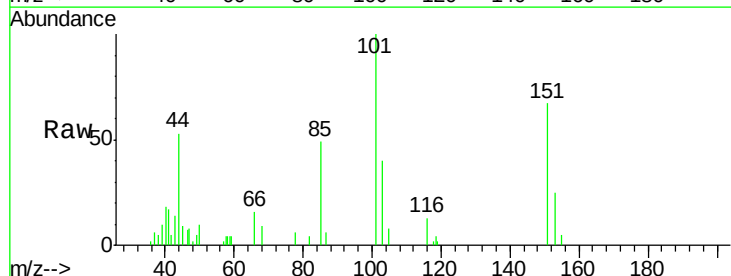
Instrument :
 MSVOA_L
 ClientSampleId :
 EP1-SV-2

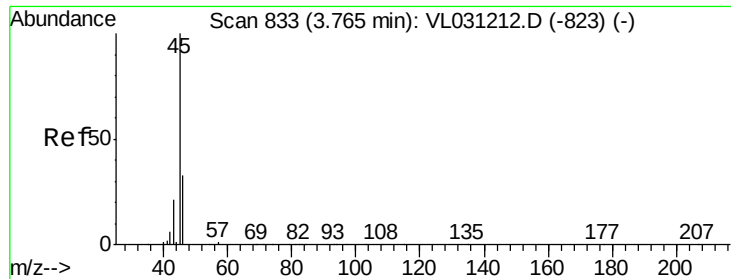
Tgt Ion:101 Resp: 88158
 Ion Ratio Lower Upper
 101 100
 103 73.8 51.8 77.8



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.04 ppbv
 RT: 4.68 min Scan# 1119
 Delta R.T. 0.00 min
 Lab File: VL031277.D
 Acq: 20 Dec 2017 20:03

Tgt Ion:101 Resp: 6596
 Ion Ratio Lower Upper
 101 100
 151 132.0 56.5 84.7#





#13

Ethanol

Concen: 14.39 ppbv

RT: 3.77 min Scan# 835

Delta R.T. 0.01 min

Lab File: VL031277.D

Acq: 20 Dec 2017 20:03

Instrument :

MSVOA_L

ClientSampleId :

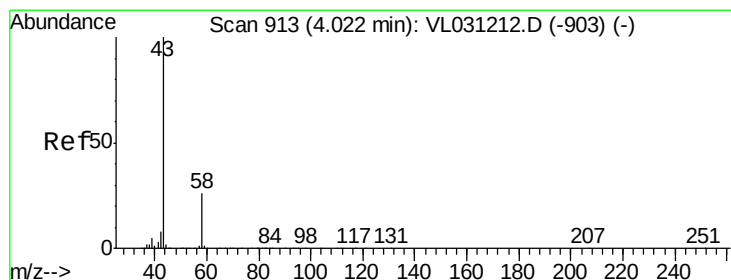
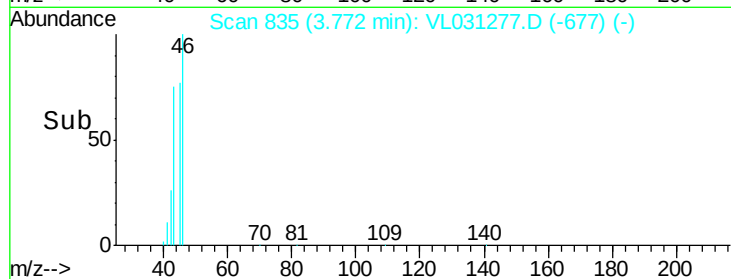
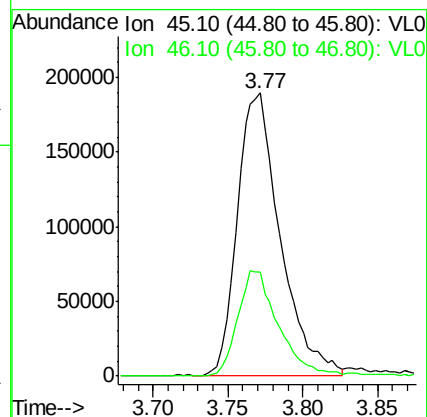
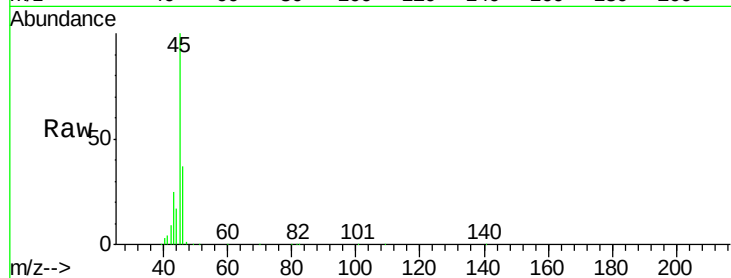
EP1-SV-2

Tgt Ion: 45 Resp: 377643

Ion Ratio Lower Upper

45 100

46 36.2 14.6 58.4



#15

Acetone

Concen: 18.11 ppbv

RT: 4.02 min Scan# 913

Delta R.T. 0.00 min

Lab File: VL031277.D

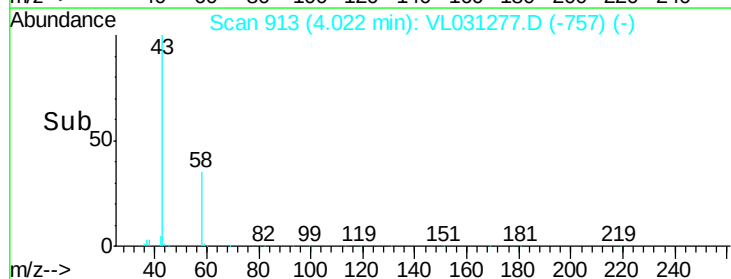
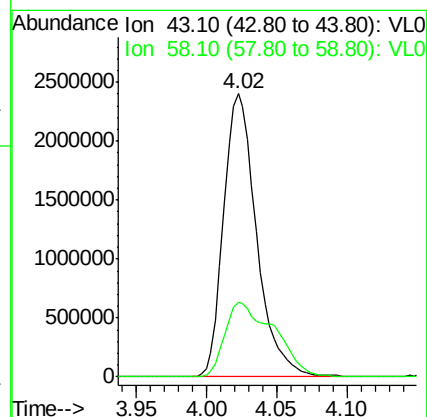
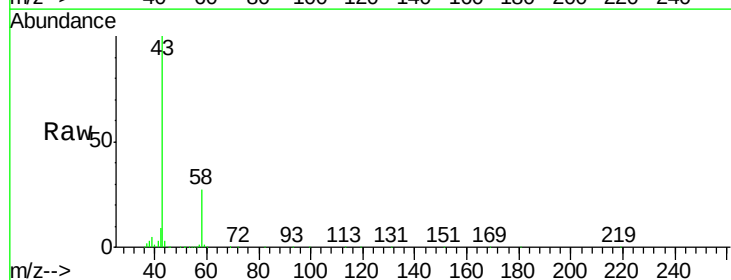
Acq: 20 Dec 2017 20:03

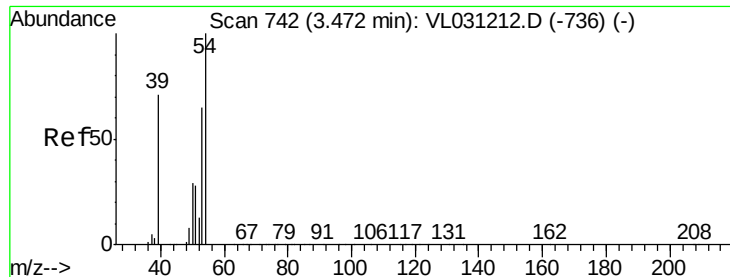
Tgt Ion: 43 Resp: 3897122

Ion Ratio Lower Upper

43 100

58 40.3 20.3 30.5#

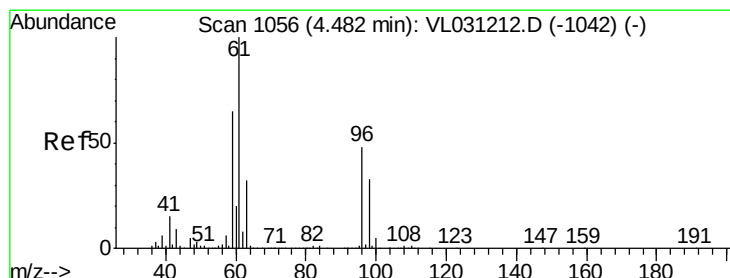
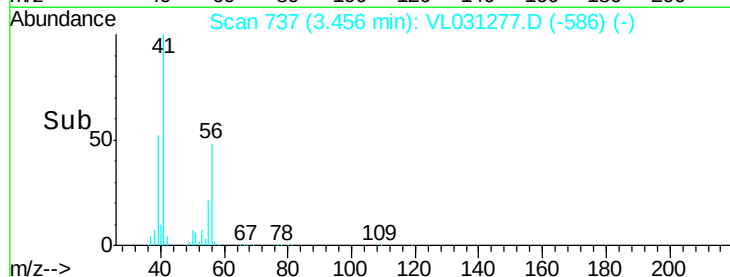
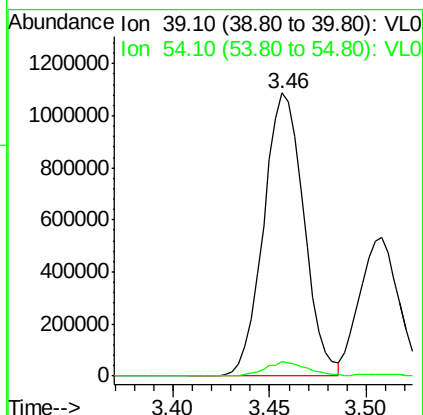
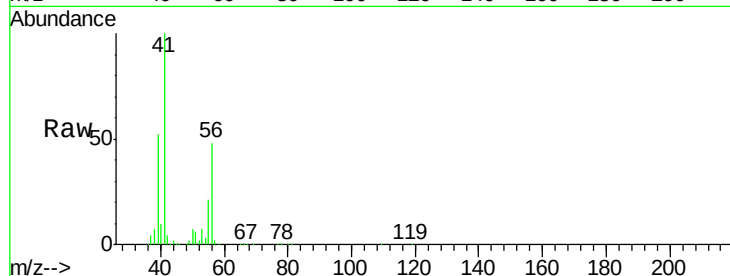




#16
1,3-Butadiene
Concen: 16.95 ppbv
RT: 3.46 min Scan# 737
Delta R.T. -0.02 min
Lab File: VL031277.D
Acq: 20 Dec 2017 20:03

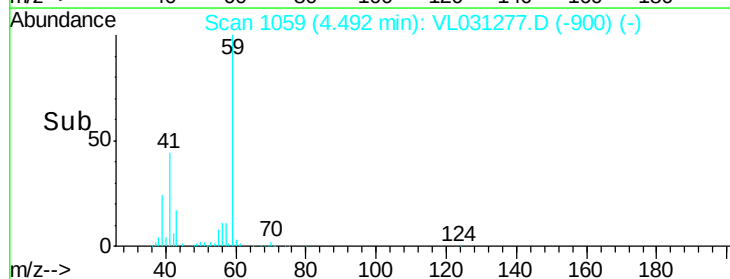
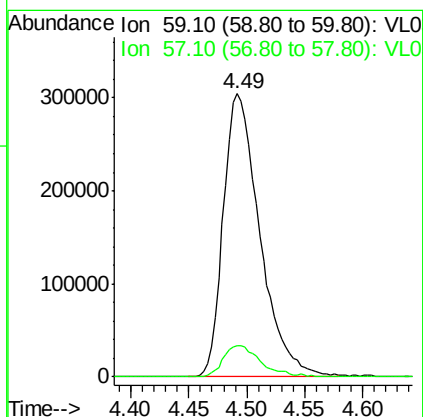
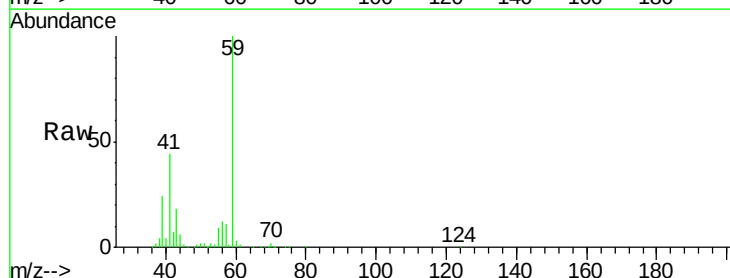
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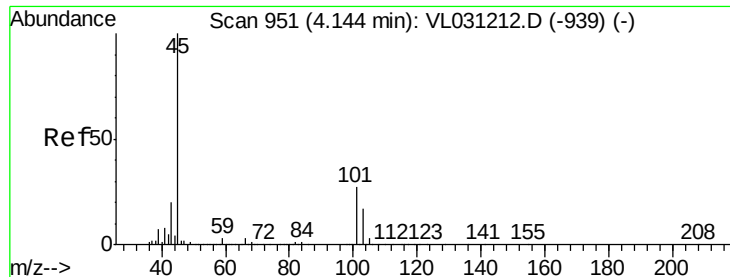
Tgt Ion: 39 Resp: 1568876
Ion Ratio Lower Upper
39 100
54 5.4 66.4 99.6#



#17
tert-Butyl alcohol
Concen: 5.51 ppbv
RT: 4.49 min Scan# 1059
Delta R.T. 0.01 min
Lab File: VL031277.D
Acq: 20 Dec 2017 20:03

Tgt Ion: 59 Resp: 665101
Ion Ratio Lower Upper
59 100
57 11.4 8.2 12.2





#19

Isopropyl Alcohol

Concen: 0.42 ppbv

RT: 4.15 min Scan# 954

Delta R.T. 0.01 min

Lab File: VL031277.D

Acq: 20 Dec 2017 20:03

Instrument :

MSVOA_L

ClientSampleId :

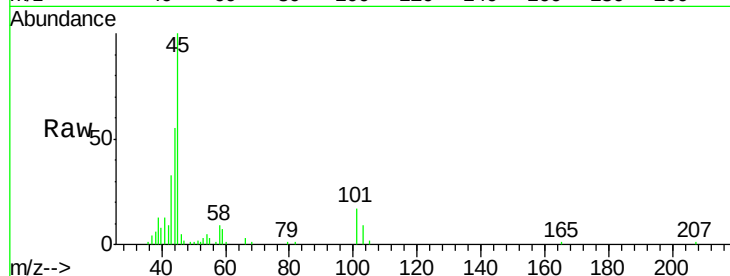
EP1-SV-2

Tgt Ion: 45 Resp: 56922

Ion Ratio Lower Upper

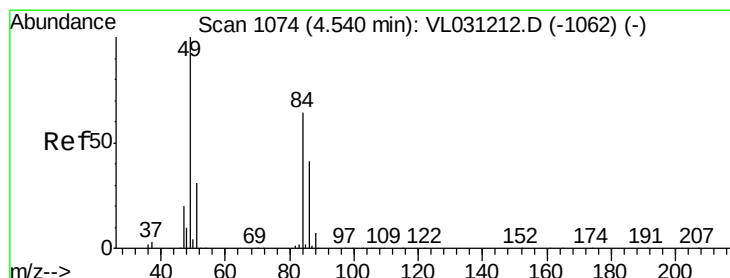
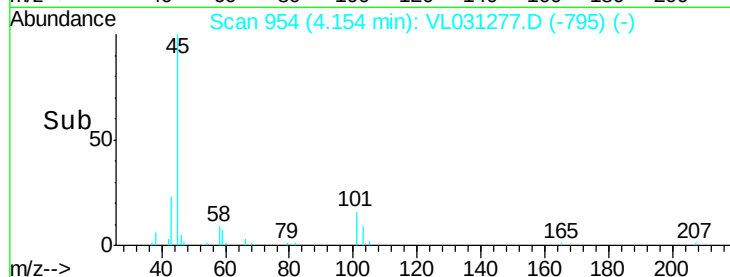
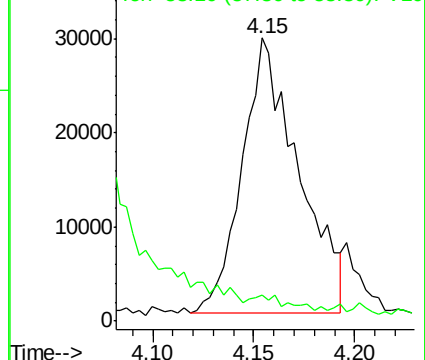
45 100

58 0.0 27.2 40.8#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.31 ppbv

RT: 4.54 min Scan# 1075

Delta R.T. 0.00 min

Lab File: VL031277.D

Acq: 20 Dec 2017 20:03

Tgt Ion: 84 Resp: 21818

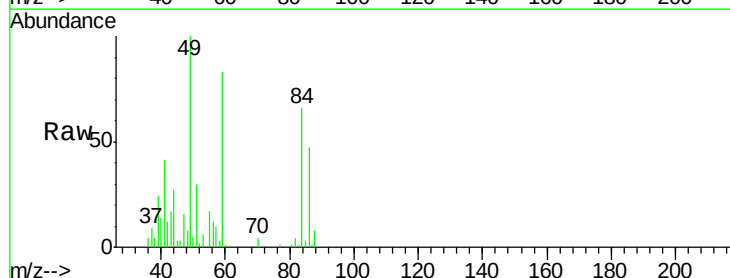
Ion Ratio Lower Upper

84 100

49 155.3 125.8 188.6

51 43.2 39.3 58.9

86 70.7 51.1 76.7

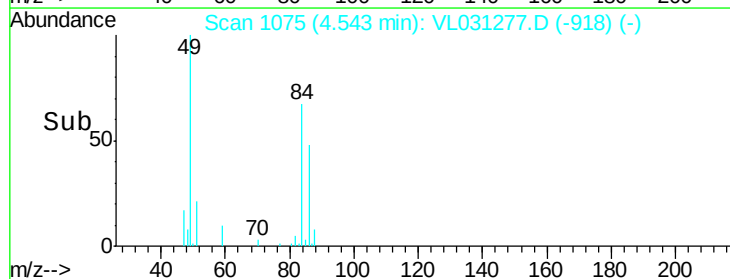
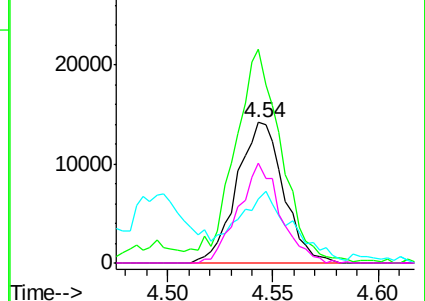


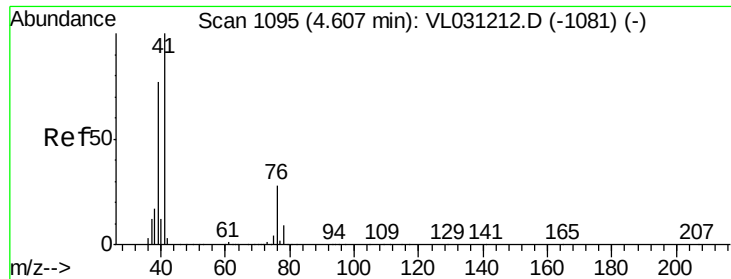
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

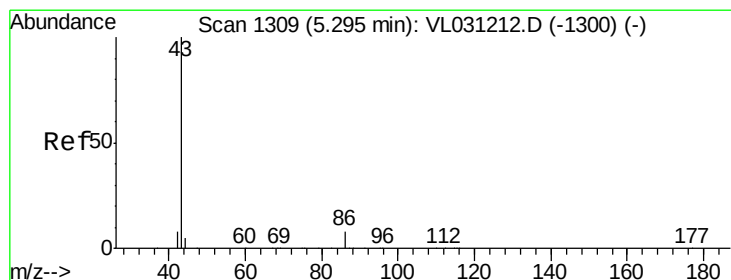
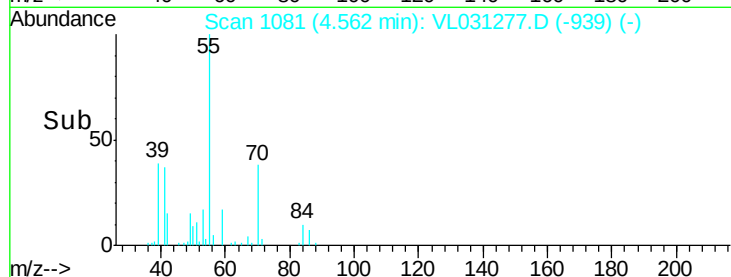
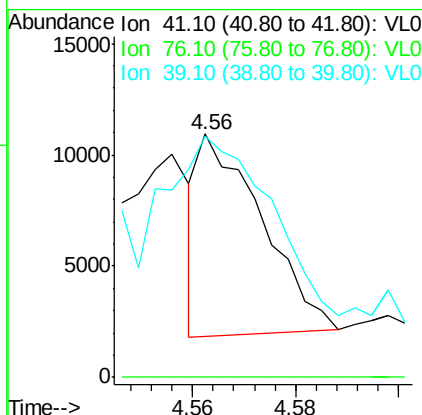
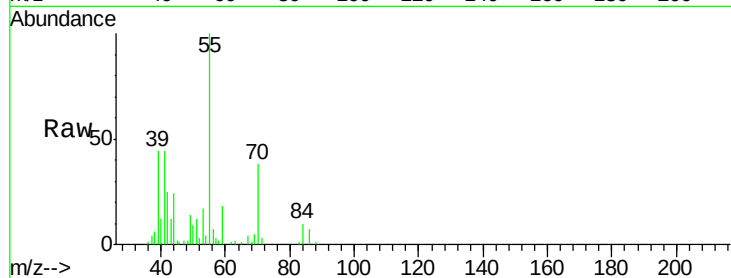




#21
 Allyl Chloride
 Concen: 0.06 ppbv
 RT: 4.56 min Scan# 1081
 Delta R.T. -0.04 min
 Lab File: VL031277.D
 Acq: 20 Dec 2017 20:03

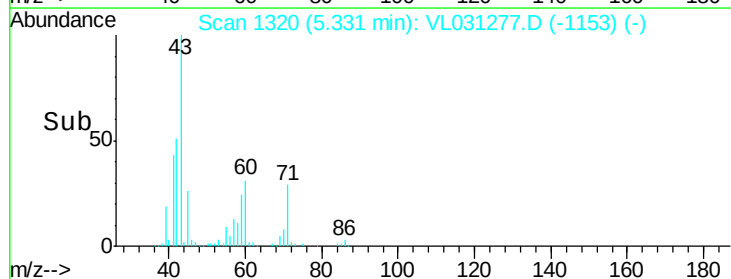
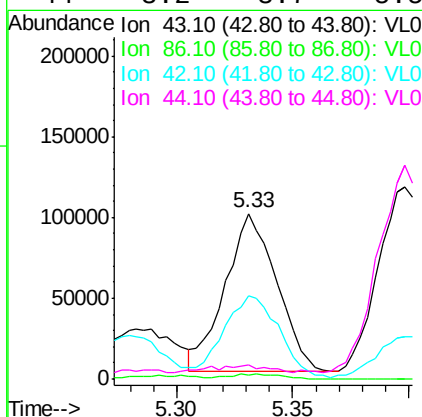
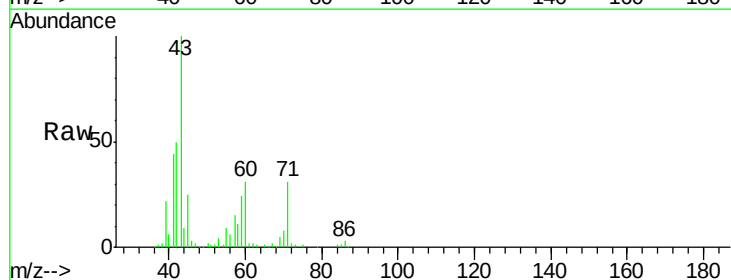
Instrument :
 MSVOA_L
 ClientSampleId :
 EP1-SV-2

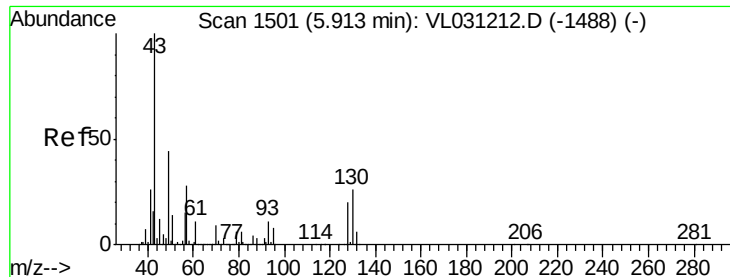
Tgt Ion: 41 Resp: 7689
 Ion Ratio Lower Upper
 41 100
 76 2585.7 22.9 34.3#
 39 313.1 62.6 93.8#



#23
 Vinyl Acetate
 Concen: 0.44 ppbv
 RT: 5.33 min Scan# 1320
 Delta R.T. 0.04 min
 Lab File: VL031277.D
 Acq: 20 Dec 2017 20:03

Tgt Ion: 43 Resp: 151073
 Ion Ratio Lower Upper
 43 100
 86 2.4 5.9 8.9#
 42 50.1 7.3 10.9#
 44 3.2 3.7 5.5#





#25

Ethyl Acetate

Concen: 0.48 ppbv

RT: 5.93 min Scan# 1506

Delta R.T. 0.02 min

Lab File: VL031277.D

Acq: 20 Dec 2017 20:03

Instrument :

MSVOA_L

ClientSampleId :

EP1-SV-2

Tgt Ion: 43 Resp: 210091

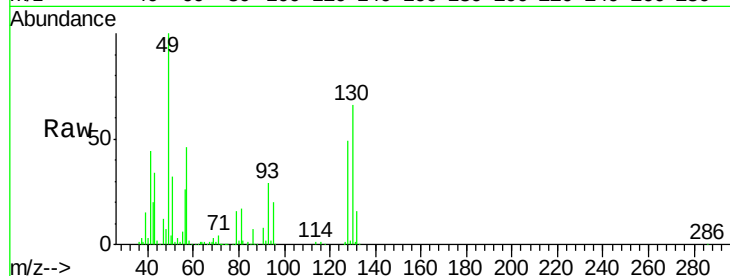
Ion Ratio Lower Upper

43 100

45 3.1 8.0 12.0#

61 1.3 7.4 11.0#

70 3.5 5.8 8.8#

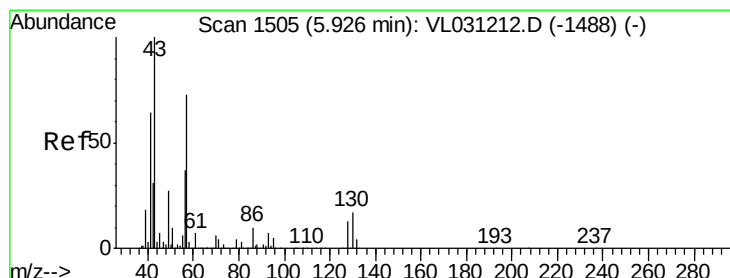
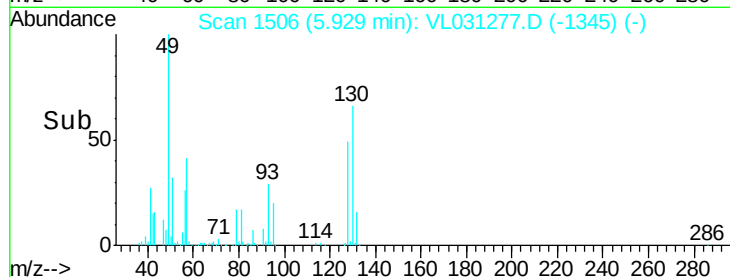
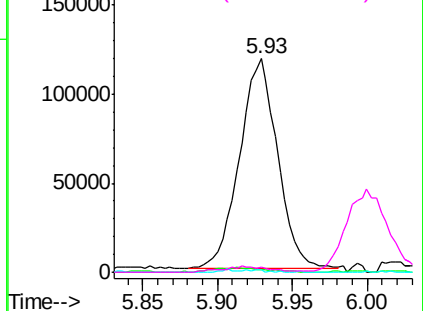


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 1.34 ppbv

RT: 5.93 min Scan# 1506

Delta R.T. 0.00 min

Lab File: VL031277.D

Acq: 20 Dec 2017 20:03

Tgt Ion: 57 Resp: 279441

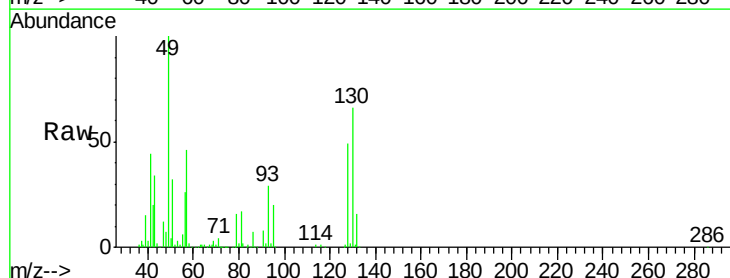
Ion Ratio Lower Upper

57 100

41 113.3 70.3 105.5#

43 0.0 173.8 260.8#

56 60.5 41.7 62.5

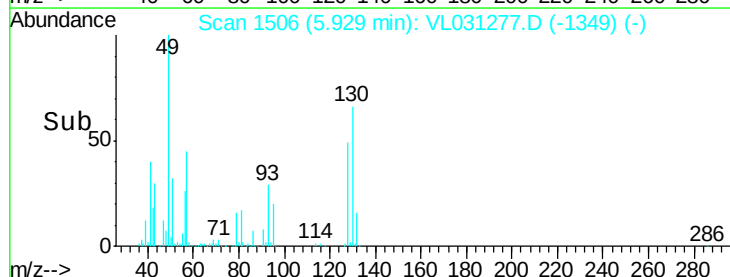
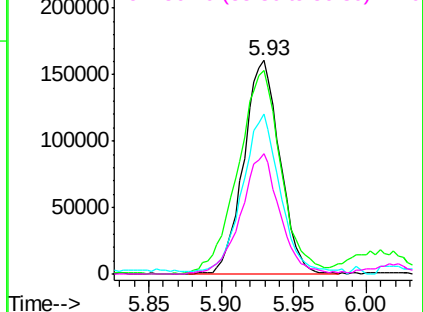


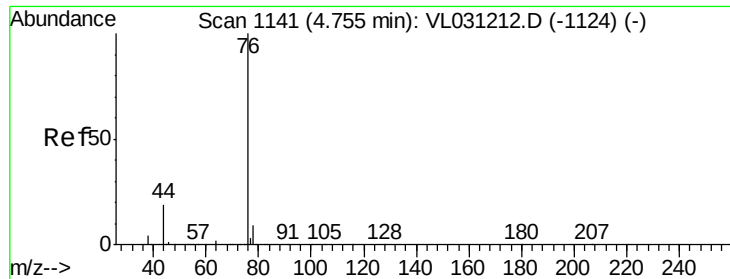
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0

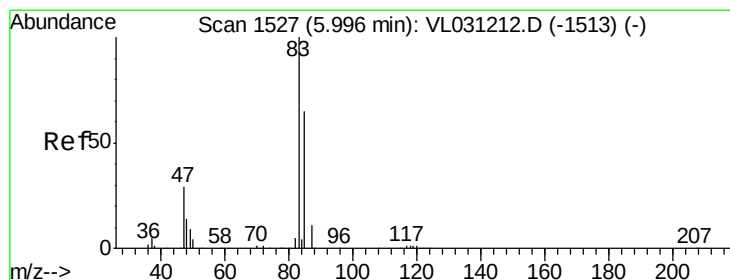
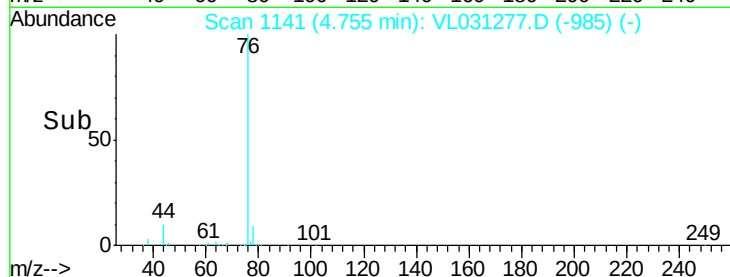
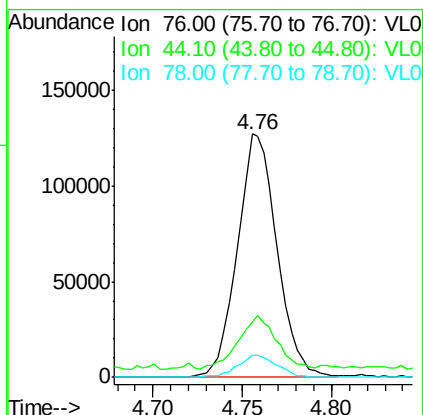
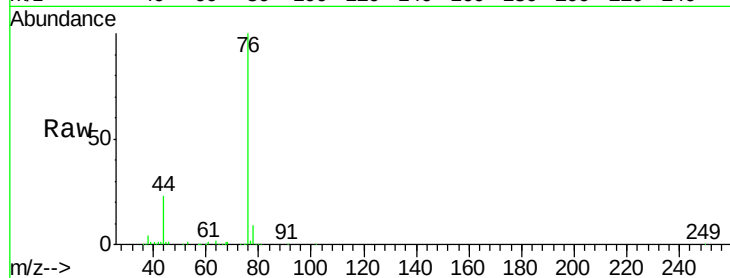




#27
Carbon Disulfide
Concen: 0.94 ppbv
RT: 4.76 min Scan# 1141
Delta R.T. 0.00 min
Lab File: VL031277.D
Acq: 20 Dec 2017 20:03

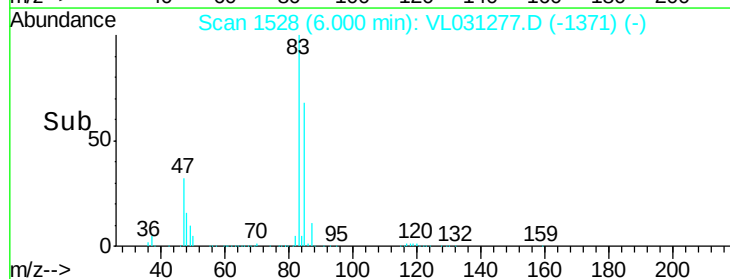
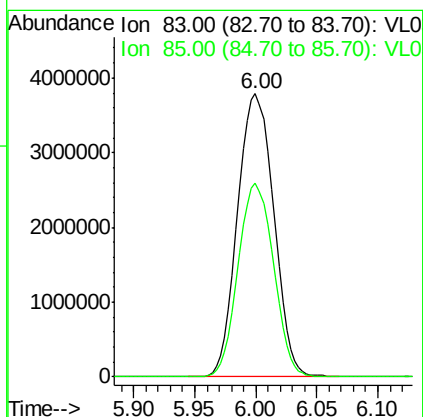
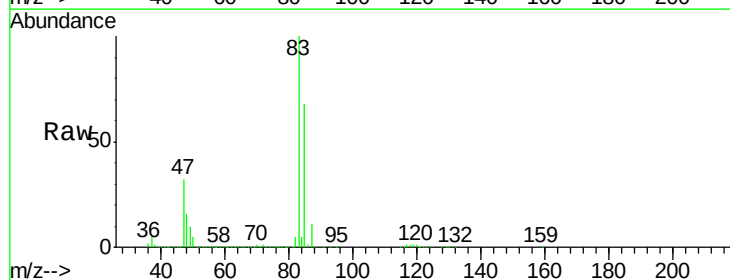
Instrument :
MSVOA_L
ClientSampleId :
EP1-SV-2

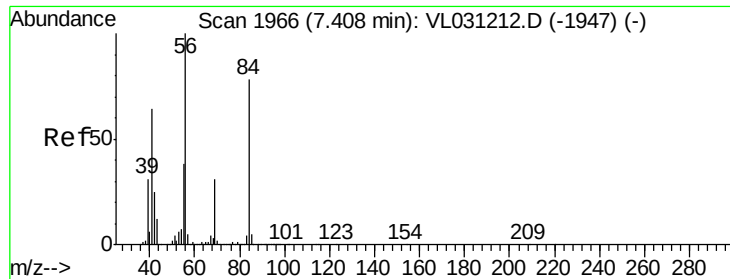
Tgt Ion: 76 Resp: 197281
Ion Ratio Lower Upper
76 100
44 21.6 16.0 24.0
78 9.1 7.5 11.3



#29
Chloroform
Concen: 27.75 ppbv
RT: 6.00 min Scan# 1528
Delta R.T. 0.00 min
Lab File: VL031277.D
Acq: 20 Dec 2017 20:03

Tgt Ion: 83 Resp: 7811729
Ion Ratio Lower Upper
83 100
85 68.4 51.8 77.6

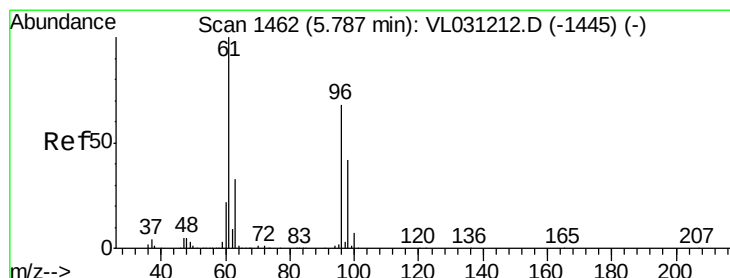
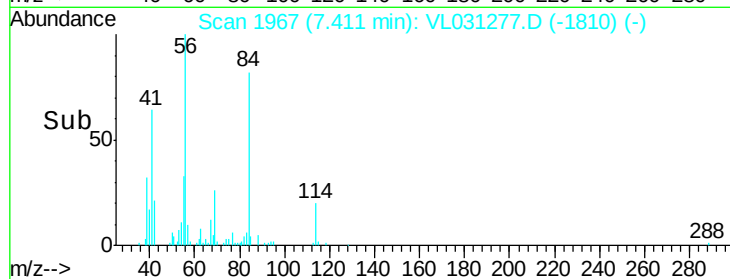
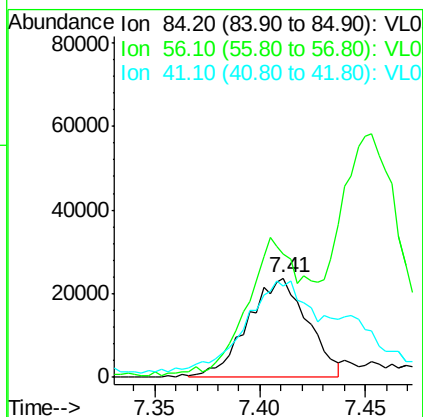
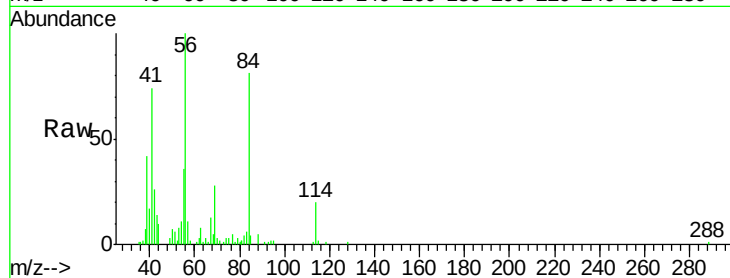




#30
Cyclohexane
Concen: 0.25 ppbv
RT: 7.41 min Scan# 1967
Delta R.T. 0.00 min
Lab File: VL031277.D
Acq: 20 Dec 2017 20:03

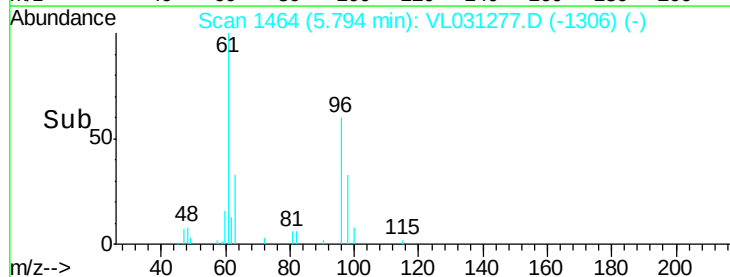
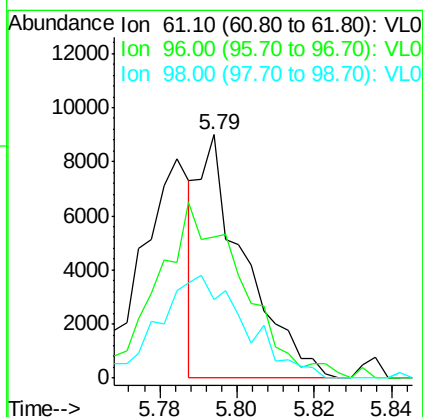
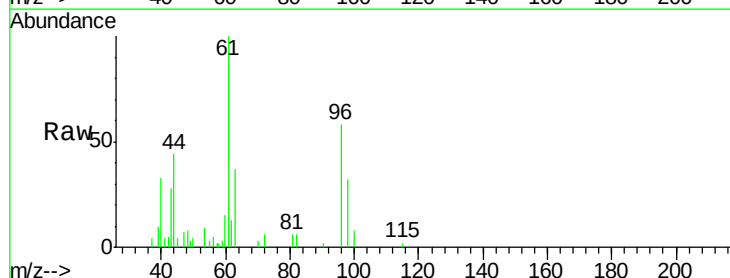
Instrument :
MSVOA_L
ClientSampleId :
EP1-SV-2

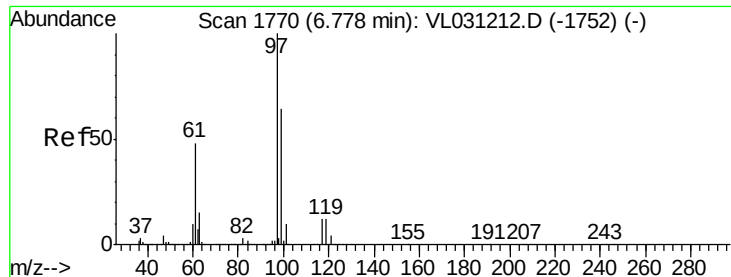
Tgt Ion: 84 Resp: 46786
Ion Ratio Lower Upper
84 100
56 126.3 108.0 162.0
41 147.7 66.2 99.4#



#31
cis-1,2-Dichloroethene
Concen: 0.04 ppbv
RT: 5.79 min Scan# 1464
Delta R.T. 0.01 min
Lab File: VL031277.D
Acq: 20 Dec 2017 20:03

Tgt Ion: 61 Resp: 7415
Ion Ratio Lower Upper
61 100
96 49.5 54.4 81.6#
98 28.4 33.6 50.4#





#32

1,1,1-Trichloroethane

Concen: 0.10 ppbv

RT: 6.78 min Scan# 1770

Delta R.T. 0.00 min

Lab File: VL031277.D

Acq: 20 Dec 2017 20:03

Instrument :

MSVOA_L

ClientSampleId :

EP1-SV-2

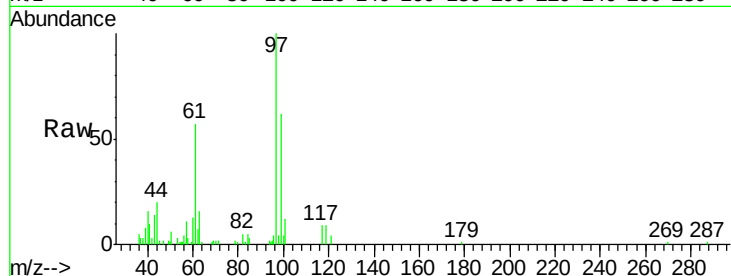
Tgt Ion: 97 Resp: 31131

Ion Ratio Lower Upper

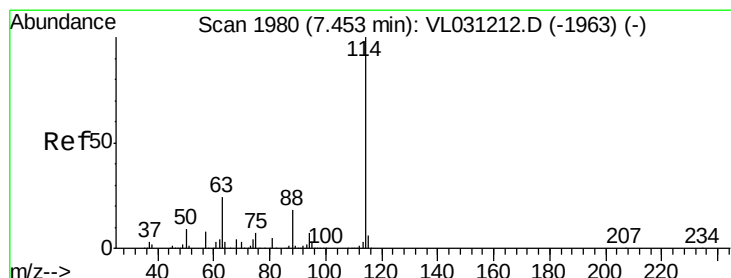
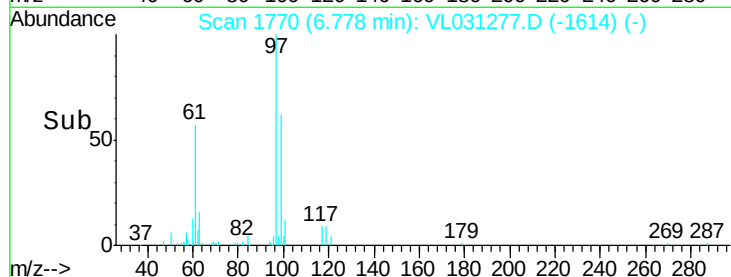
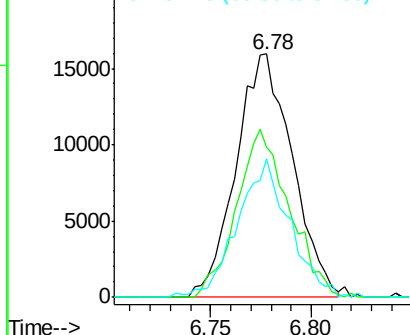
97 100

99 64.5 51.4 77.0

61 52.6 38.4 57.6



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 7.46 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VL031277.D

Acq: 20 Dec 2017 20:03

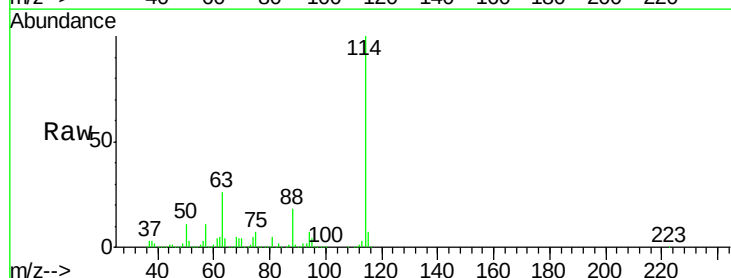
Tgt Ion: 114 Resp: 3846595

Ion Ratio Lower Upper

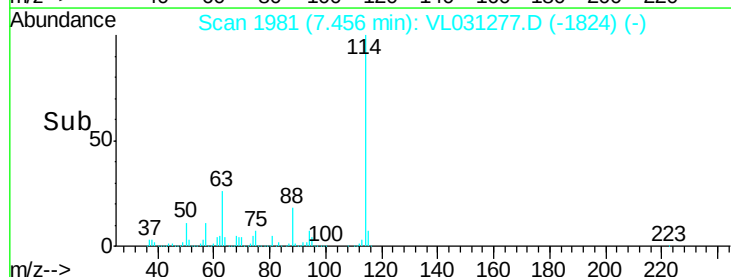
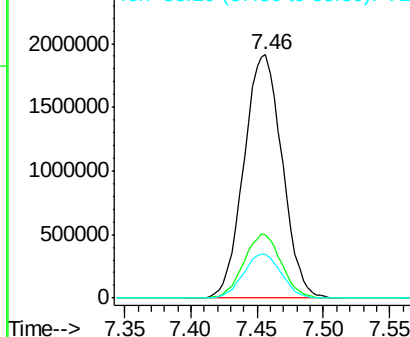
114 100

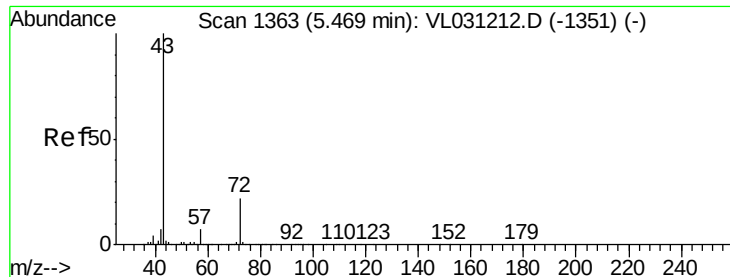
63 25.8 19.8 29.8

88 18.0 14.2 21.4



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

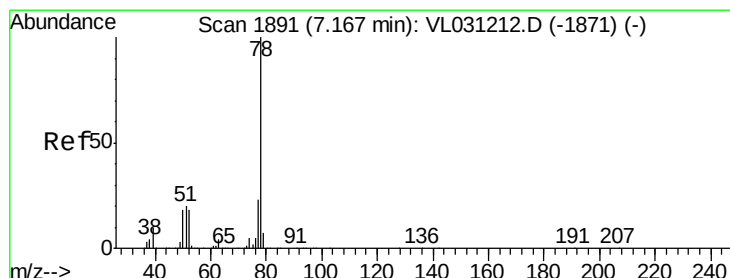
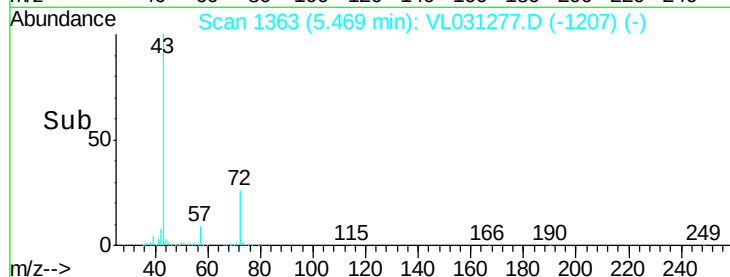
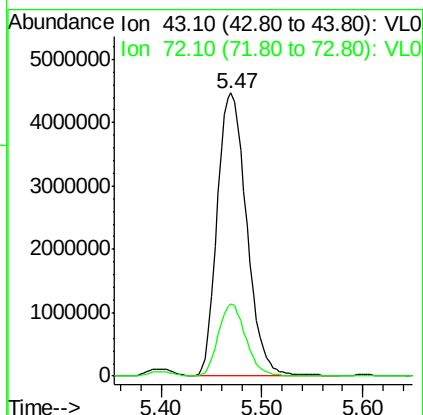
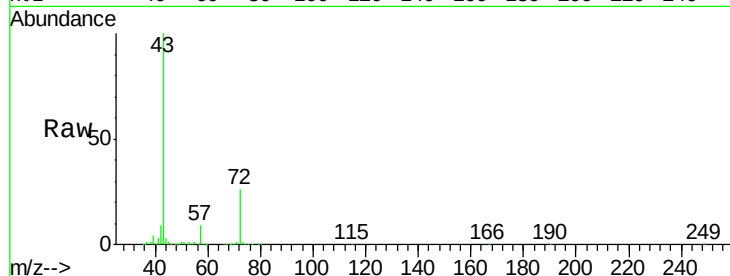




#34
2-Butanone
Concen: 33.32 ppbv
RT: 5.47 min Scan# 1363
Delta R.T. 0.00 min
Lab File: VL031277.D
Acq: 20 Dec 2017 20:03

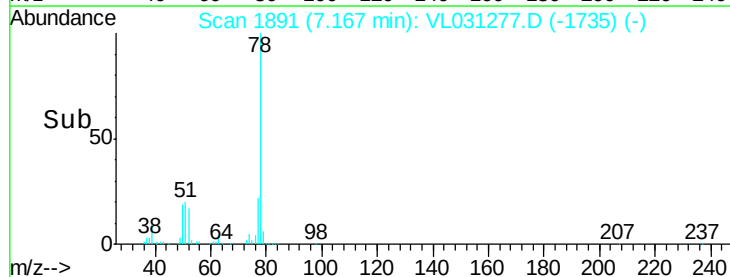
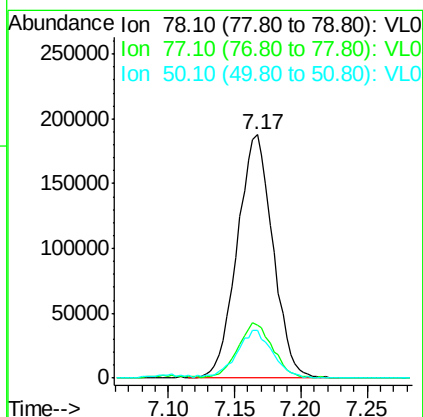
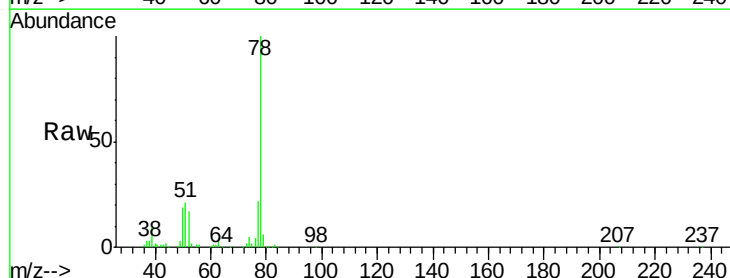
Instrument :
MSVOA_L
ClientSampleId :
EP1-SV-2

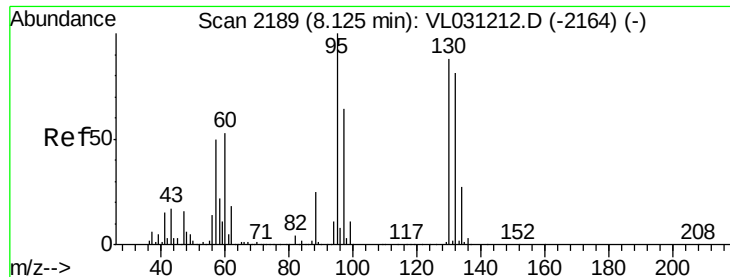
Tgt Ion: 43 Resp: 9052649
Ion Ratio Lower Upper
43 100
72 24.0 18.1 27.1



#36
Benzene
Concen: 0.86 ppbv
RT: 7.17 min Scan# 1891
Delta R.T. 0.00 min
Lab File: VL031277.D
Acq: 20 Dec 2017 20:03

Tgt Ion: 78 Resp: 351529
Ion Ratio Lower Upper
78 100
77 21.3 18.1 27.1
50 19.2 14.6 21.8





#38

Trichloroethene

Concen: 2.00 ppbv

RT: 8.13 min Scan# 2189

Delta R.T. 0.00 min

Lab File: VL031277.D

Acq: 20 Dec 2017 20:03

Instrument :

MSVOA_L

ClientSampleId :

EP1-SV-2

Tgt Ion:130 Resp: 317575

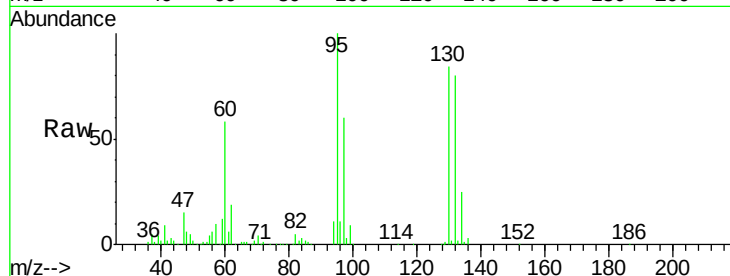
Ion Ratio Lower Upper

130 100

95 118.3 90.6 135.8

132 95.0 73.5 110.3

97 71.2 57.8 86.8

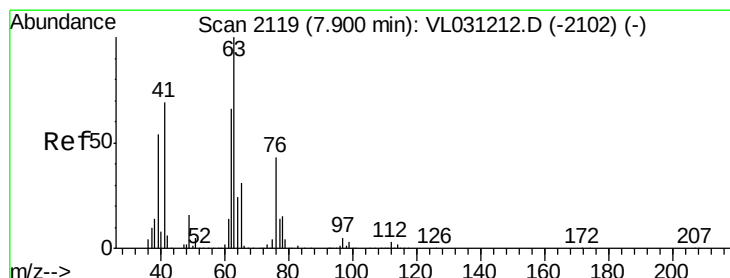
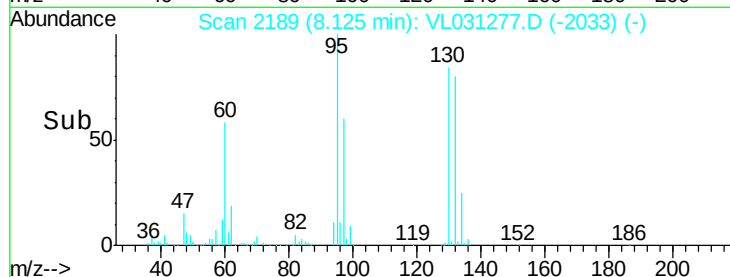
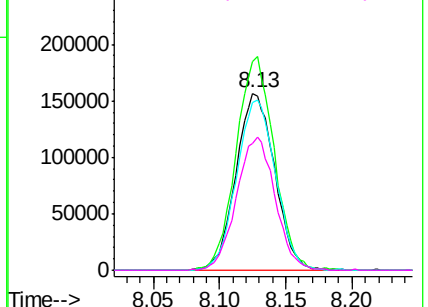


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#39

1,2-Dichloropropane

Concen: 6.83 ppbv

RT: 7.45 min Scan# 1980

Delta R.T. -0.45 min

Lab File: VL031277.D

Acq: 20 Dec 2017 20:03

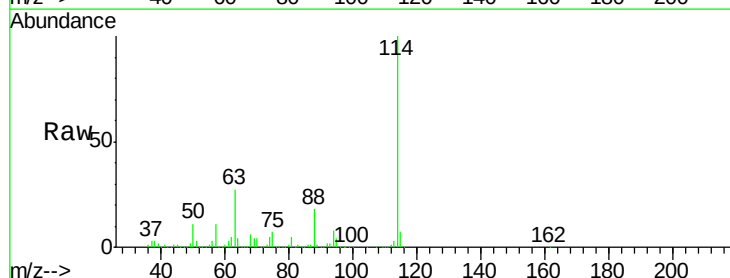
Tgt Ion: 63 Resp: 984568

Ion Ratio Lower Upper

63 100

41 0.0 55.2 82.8#

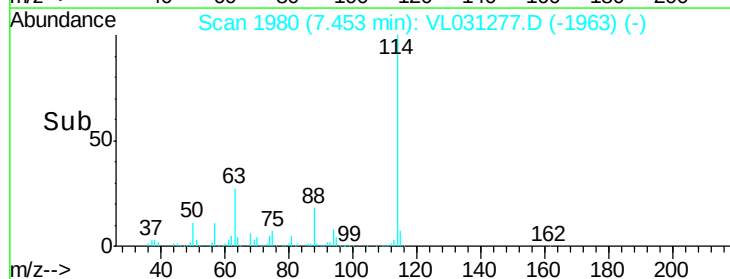
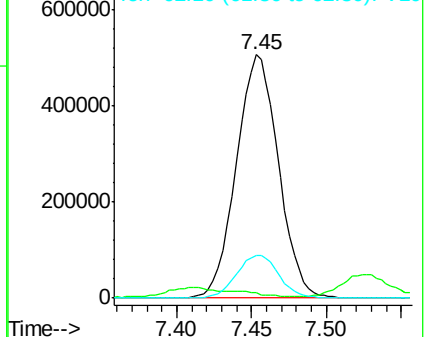
62 17.6 53.0 79.4#

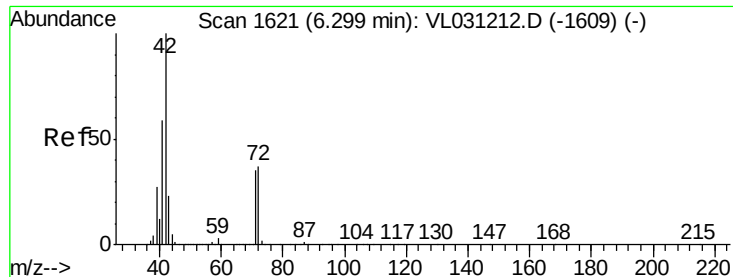


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#41

Tetrahydrofuran

Concen: 0.14 ppbv

RT: 6.31 min Scan# 1623

Delta R.T. 0.01 min

Lab File: VL031277.D

Acq: 20 Dec 2017 20:03

Instrument :

MSVOA_L

ClientSampleId :

EP1-SV-2

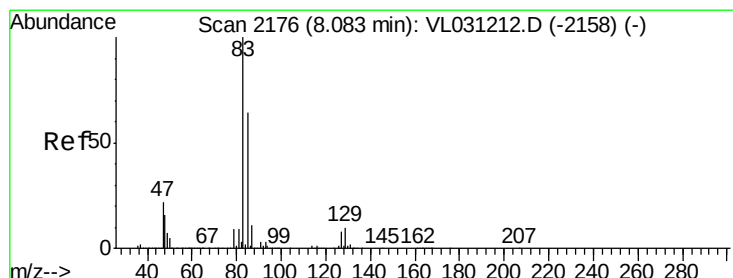
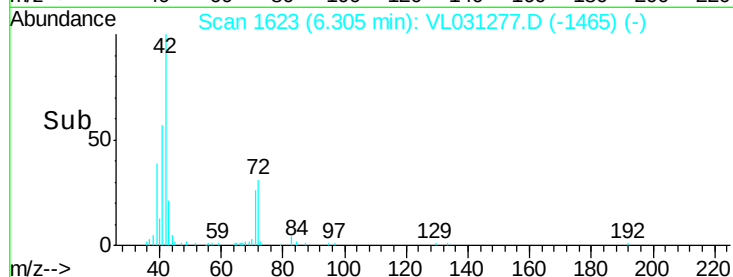
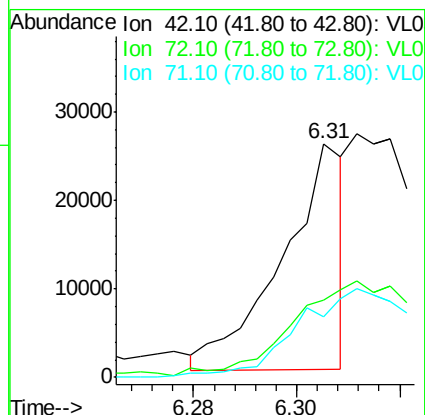
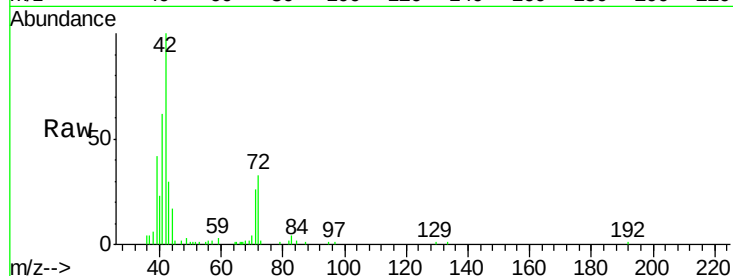
Tgt Ion: 42 Resp: 21214

Ion Ratio Lower Upper

42 100

72 0.0 30.2 45.4#

71 0.0 29.0 43.6#



#42

Bromodichloromethane

Concen: 0.22 ppbv

RT: 8.09 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VL031277.D

Acq: 20 Dec 2017 20:03

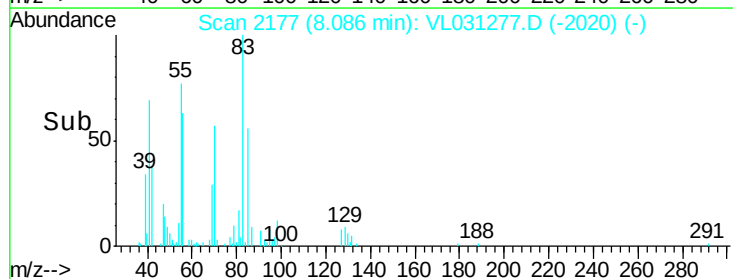
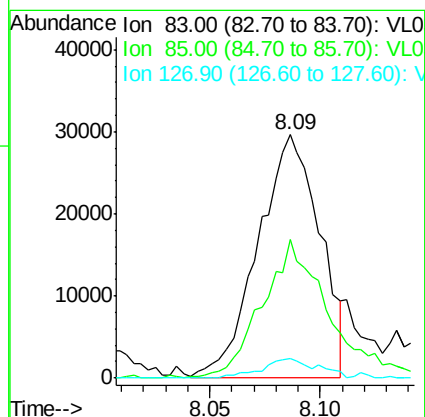
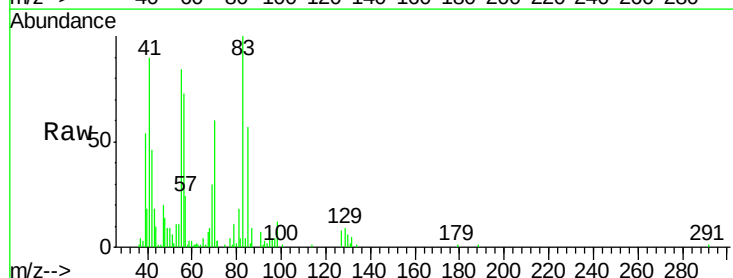
Tgt Ion: 83 Resp: 57641

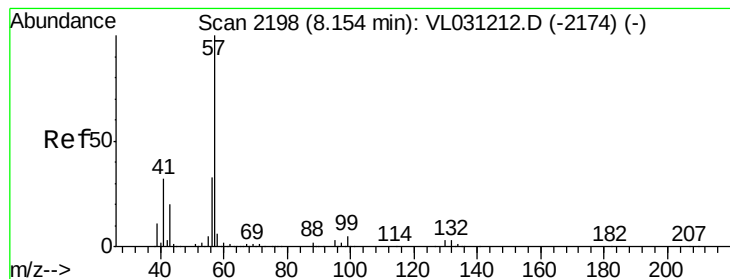
Ion Ratio Lower Upper

83 100

85 56.6 51.5 77.3

127 8.2 6.5 9.7





#44

2,2,4-Trimethylpentane

Concen: 0.39 ppbv

RT: 8.16 min Scan# 2199

Delta R.T. 0.00 min

Lab File: VL031277.D

Acq: 20 Dec 2017 20:03

Instrument :

MSVOA_L

ClientSampleId :

EP1-SV-2

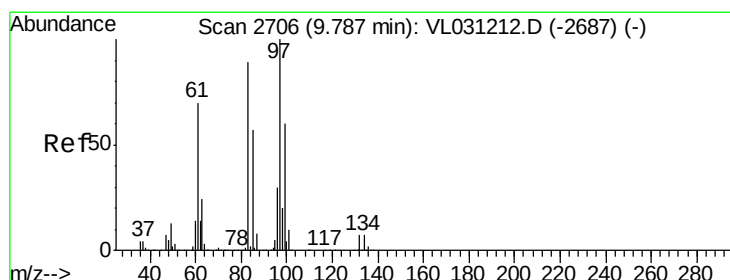
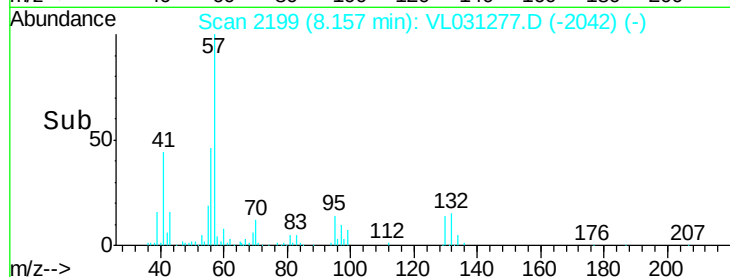
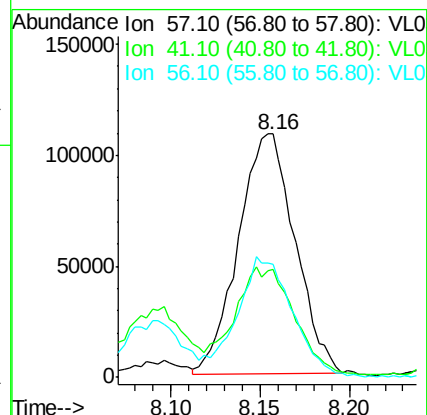
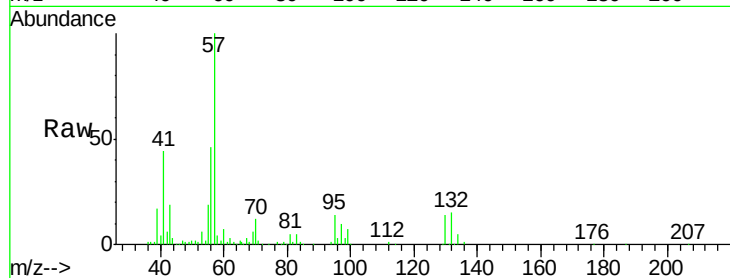
Tgt Ion: 57 Resp: 238994

Ion Ratio Lower Upper

57 100

41 46.8 25.5 38.3#

56 48.1 25.0 37.6#



#47

1,1,2-Trichloroethane

Concen: 0.68 ppbv

RT: 9.88 min Scan# 2735

Delta R.T. 0.09 min

Lab File: VL031277.D

Acq: 20 Dec 2017 20:03

Tgt Ion: 97 Resp: 102401

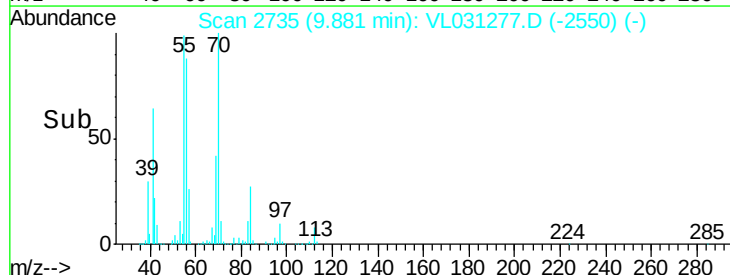
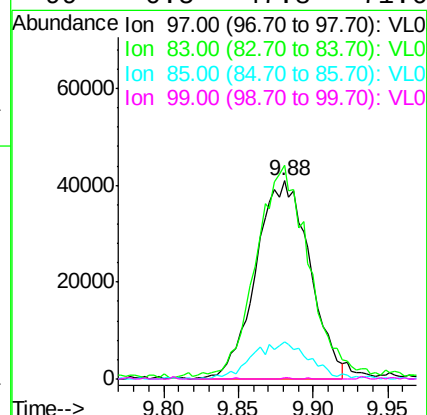
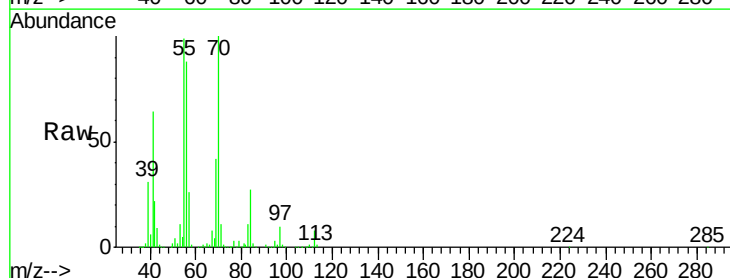
Ion Ratio Lower Upper

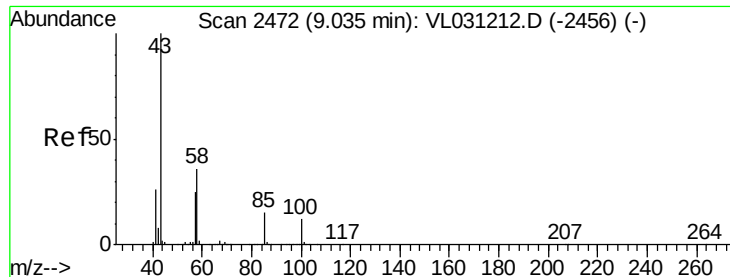
97 100

83 106.9 71.0 106.4#

85 18.5 45.3 67.9#

99 0.5 47.8 71.6#

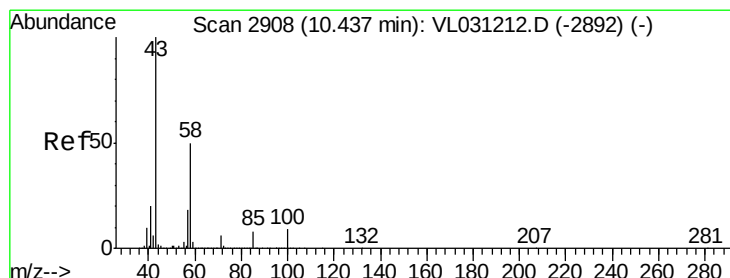
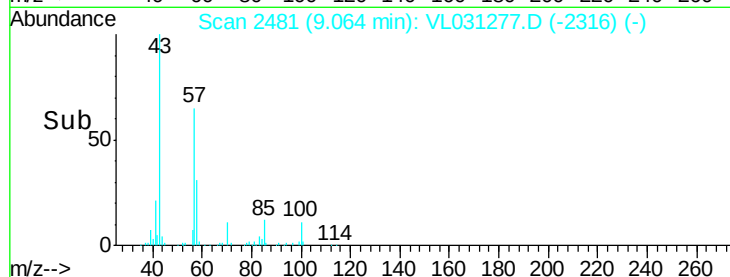
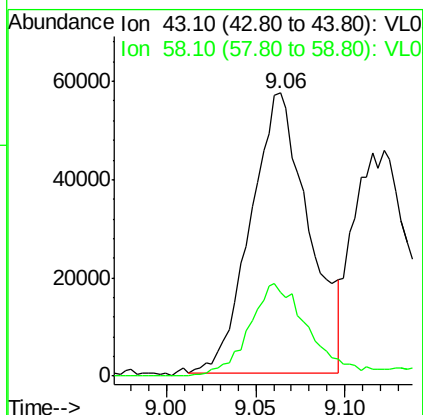
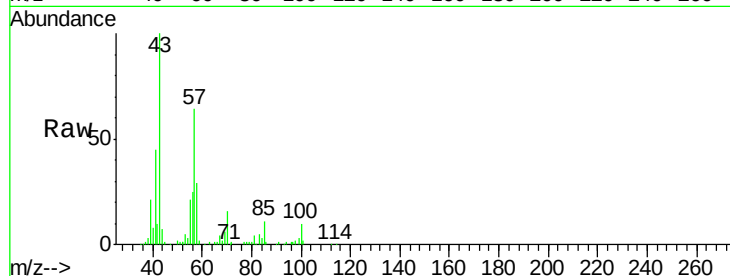




#50
 4-Methyl-2-Pentanone
 Concen: 0.39 ppbv
 RT: 9.06 min Scan# 2481
 Delta R.T. 0.03 min
 Lab File: VL031277.D
 Acq: 20 Dec 2017 20:03

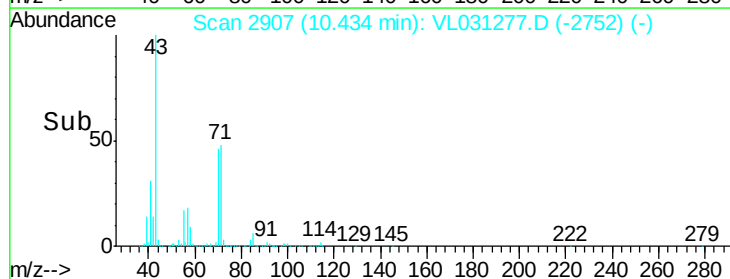
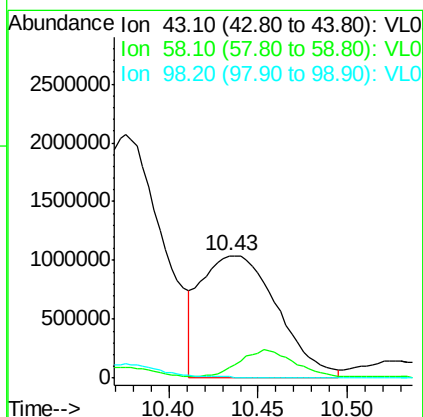
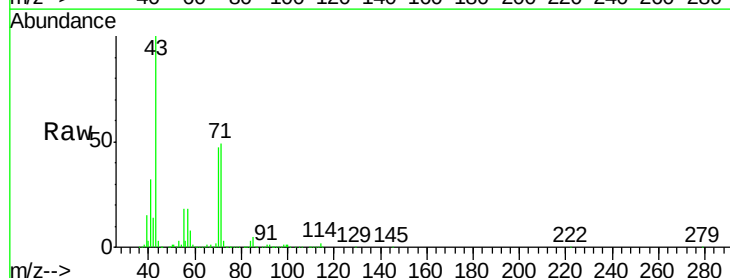
Instrument :
 MSVOA_L
 ClientSampleId :
 EP1-SV-2

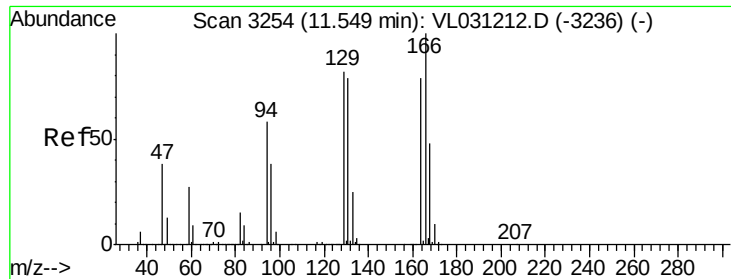
Tgt Ion: 43 Resp: 129304
 Ion Ratio Lower Upper
 43 100
 58 34.1 28.8 43.2



#51
 2-Hexanone
 Concen: 9.72 ppbv
 RT: 10.43 min Scan# 2907
 Delta R.T. -0.00 min
 Lab File: VL031277.D
 Acq: 20 Dec 2017 20:03

Tgt Ion: 43 Resp: 3083263
 Ion Ratio Lower Upper
 43 100
 58 18.0 39.8 59.6#
 98 0.0 0.0 0.0

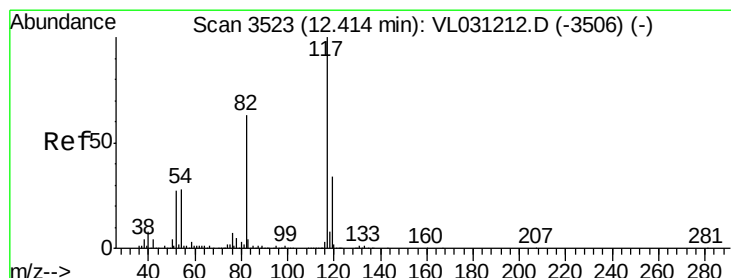
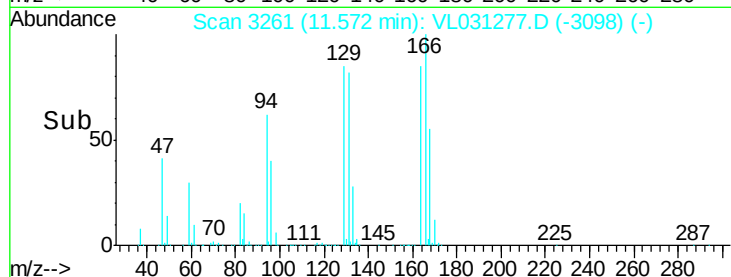
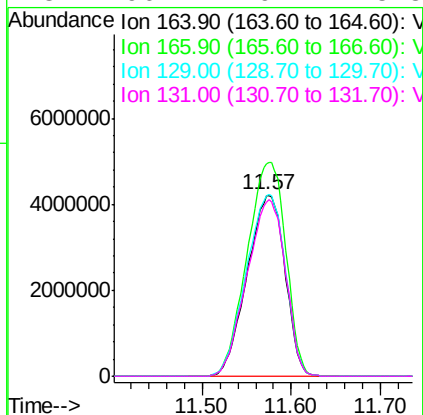
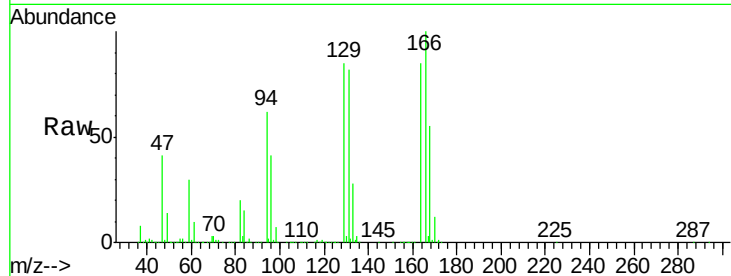




#52
Tetrachloroethene
Concen: 82.55 ppbv
RT: 11.57 min Scan# 3261
Delta R.T. 0.02 min
Lab File: VL031277.D
Acq: 20 Dec 2017 20:03

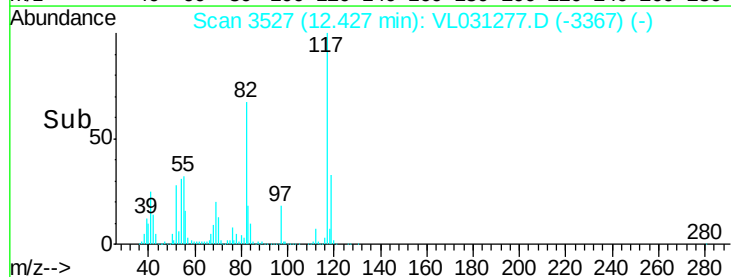
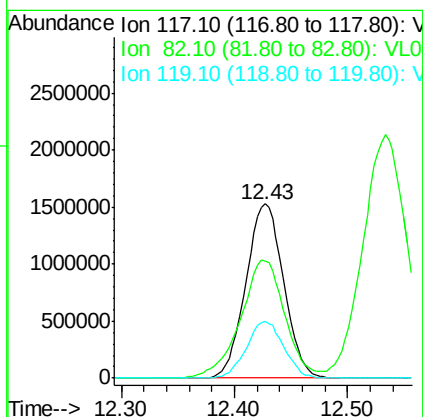
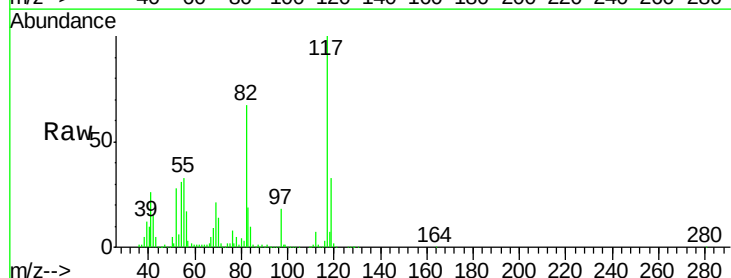
Instrument :
MSVOA_L
ClientSampleId :
EP1-SV-2

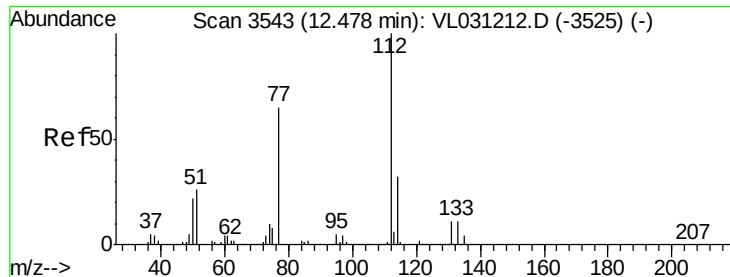
Tgt Ion:164 Resp:12415312
Ion Ratio Lower Upper
164 100
166 117.5 100.6 151.0
129 99.6 82.9 124.3
131 96.1 79.2 118.8



#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.43 min Scan# 3527
Delta R.T. 0.01 min
Lab File: VL031277.D
Acq: 20 Dec 2017 20:03

Tgt Ion:117 Resp: 3551137
Ion Ratio Lower Upper
117 100
82 80.2 48.1 72.1#
119 32.4 23.1 34.7





#57

Chlorobenzene

Concen: 9.17 ppbv

RT: 12.53 min Scan# 3560

Delta R.T. 0.05 min

Lab File: VL031277.D

Acq: 20 Dec 2017 20:03

Instrument :

MSVOA_L

ClientSampleId :

EP1-SV-2

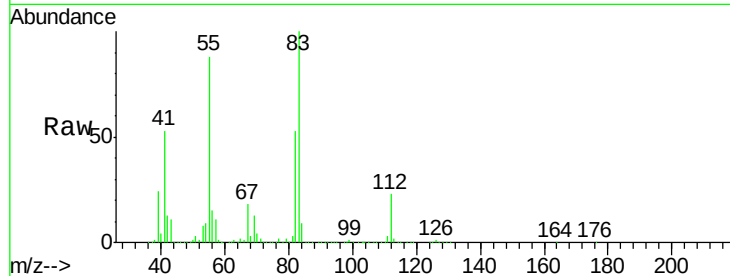
Tgt Ion: 112 Resp: 3035996

Ion Ratio Lower Upper

112 100

77 8.3 52.9 79.3#

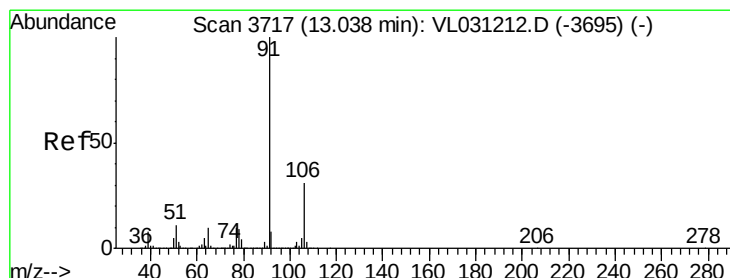
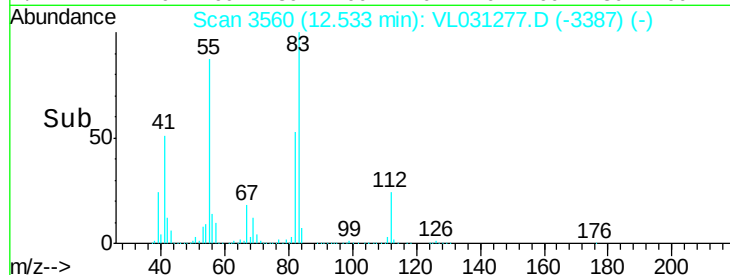
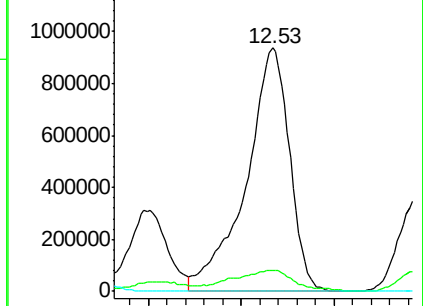
114 0.2 29.1 35.5#



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 11.74 ppbv

RT: 13.05 min Scan# 3721

Delta R.T. 0.01 min

Lab File: VL031277.D

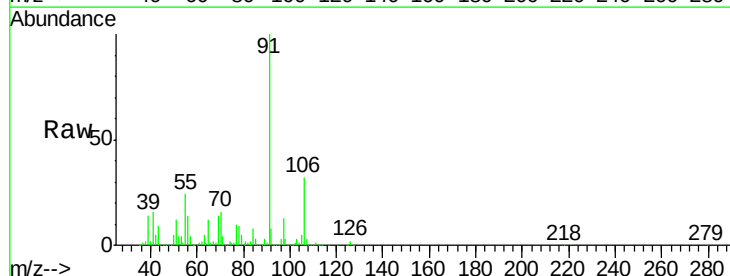
Acq: 20 Dec 2017 20:03

Tgt Ion: 91 Resp: 6880942

Ion Ratio Lower Upper

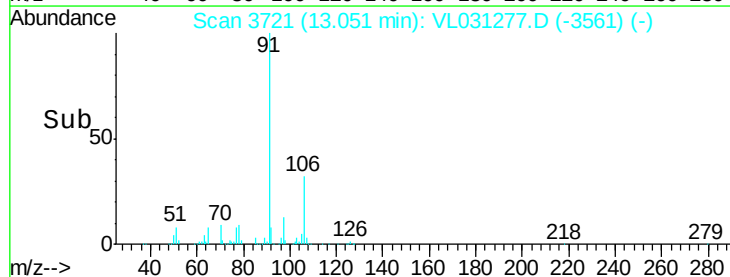
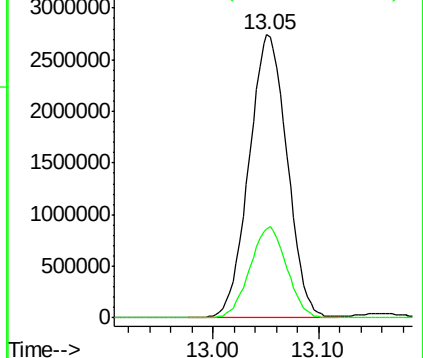
91 100

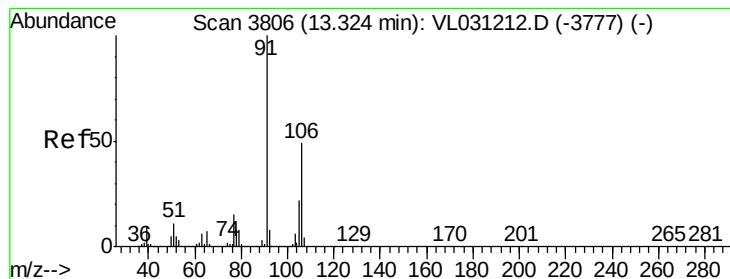
106 31.5 25.1 37.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 35.81 ppbv

RT: 13.31 min Scan# 3802

Delta R.T. -0.01 min

Lab File: VL031277.D

Acq: 20 Dec 2017 20:03

Instrument :

MSVOA_L

ClientSampleId :

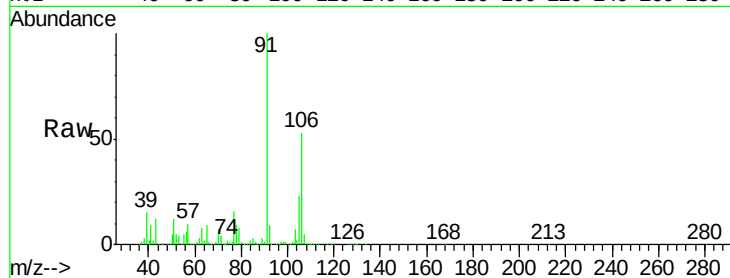
EP1-SV-2

Tgt Ion: 91 Resp:16807117

Ion Ratio Lower Upper

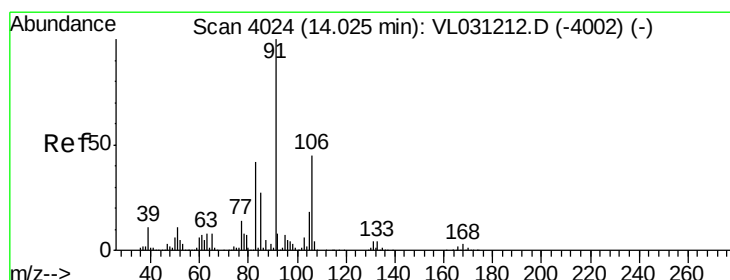
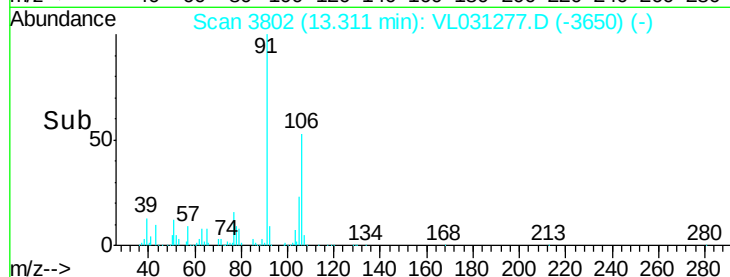
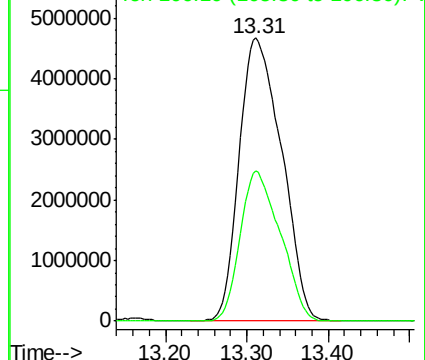
91 100

106 50.2 38.5 57.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 14.33 ppbv

RT: 14.04 min Scan# 4029

Delta R.T. 0.02 min

Lab File: VL031277.D

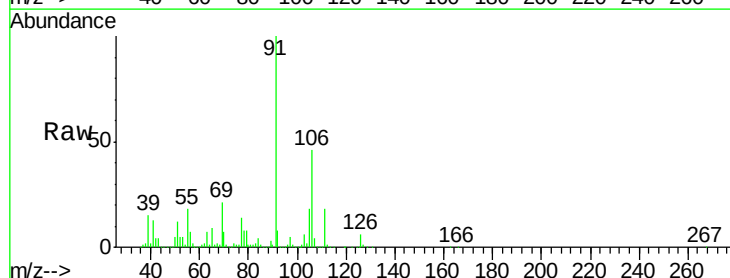
Acq: 20 Dec 2017 20:03

Tgt Ion: 91 Resp: 6780680

Ion Ratio Lower Upper

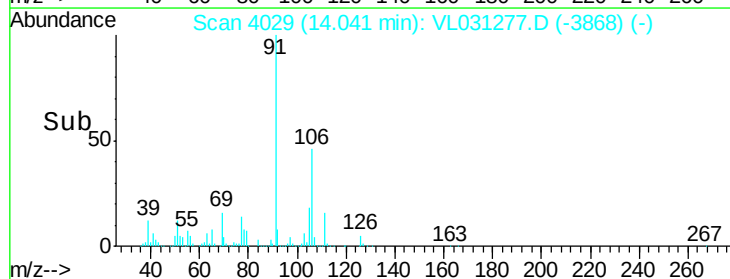
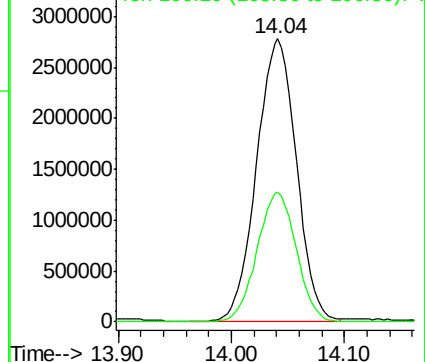
91 100

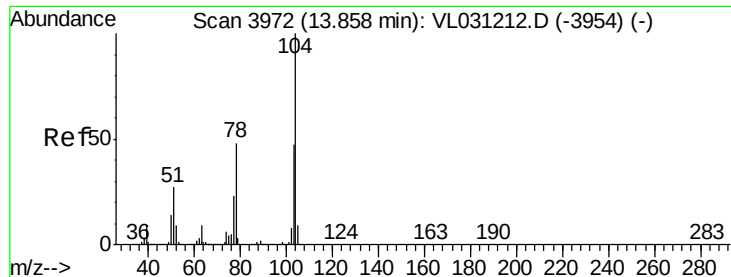
106 45.3 22.7 68.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#61

Styrene

Concen: 0.76 ppbv

RT: 13.87 min Scan# 3977

Delta R.T. 0.02 min

Lab File: VL031277.D

Acq: 20 Dec 2017 20:03

Instrument :

MSVOA_L

ClientSampleId :

EP1-SV-2

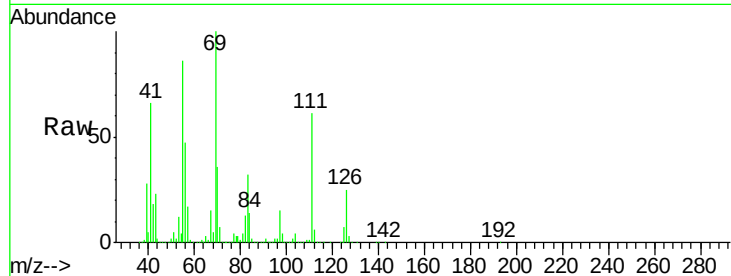
Tgt Ion:104 Resp: 103512

Ion Ratio Lower Upper

104 100

78 98.6 39.1 58.7#

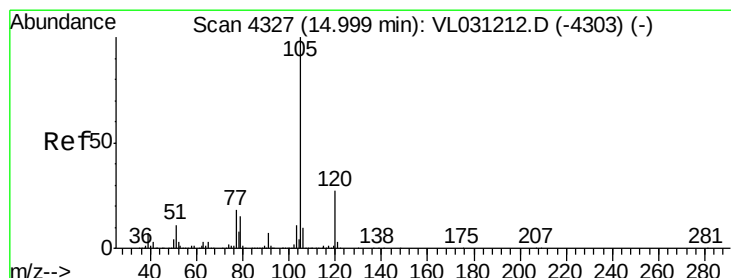
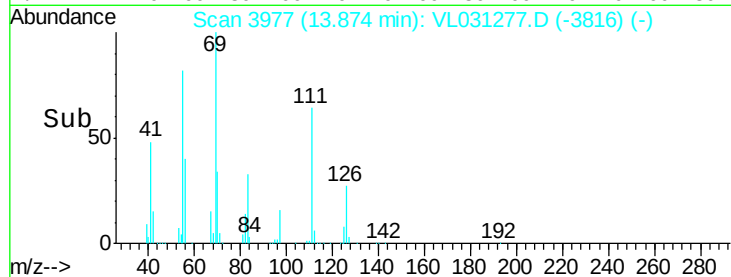
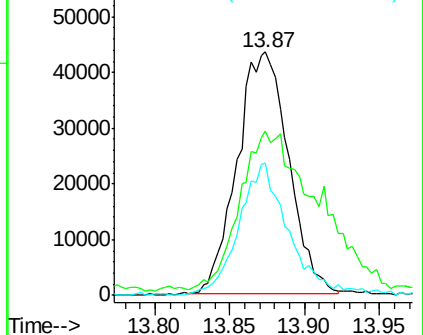
103 53.8 37.3 55.9



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 0.41 ppbv

RT: 15.01 min Scan# 4331

Delta R.T. 0.01 min

Lab File: VL031277.D

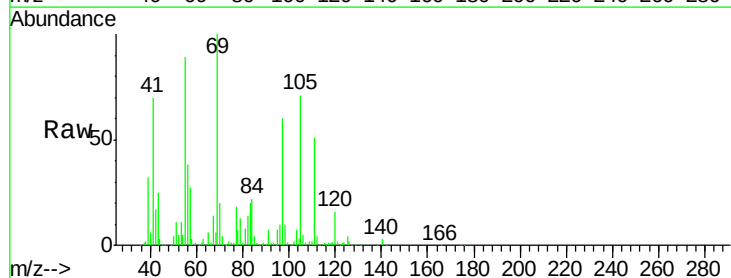
Acq: 20 Dec 2017 20:03

Tgt Ion:105 Resp: 253878

Ion Ratio Lower Upper

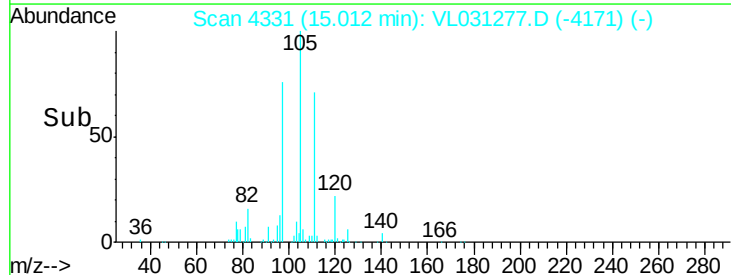
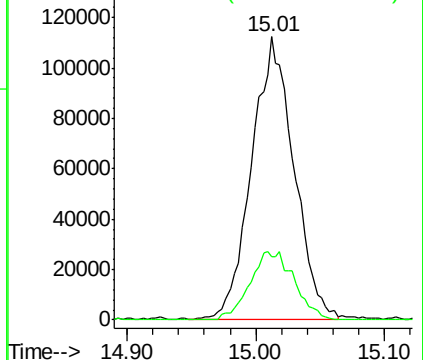
105 100

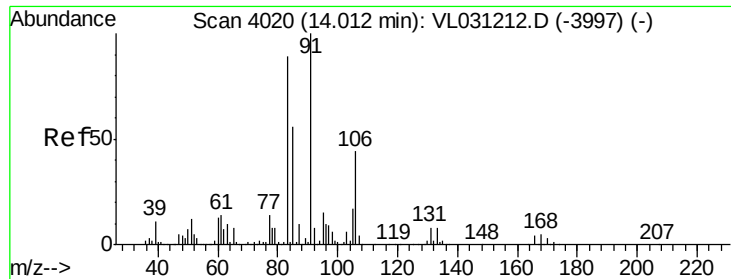
120 25.7 21.0 31.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

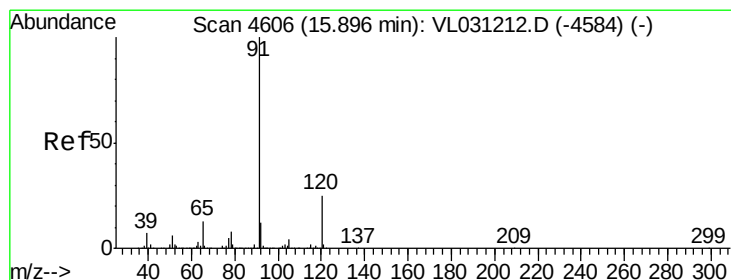
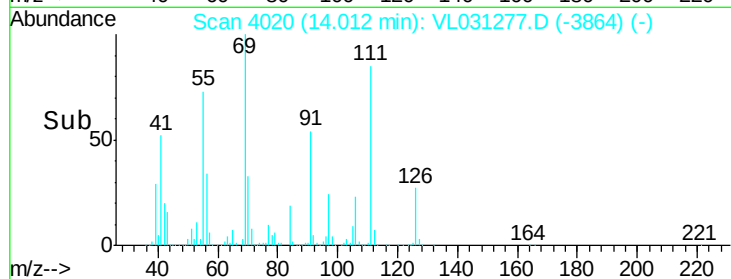
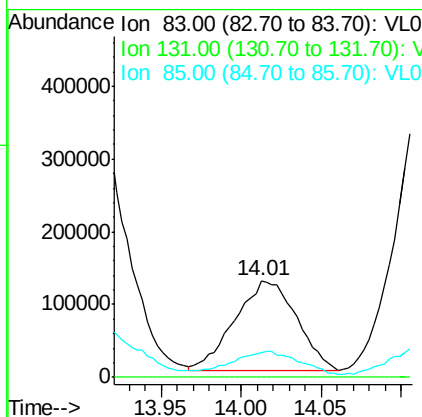
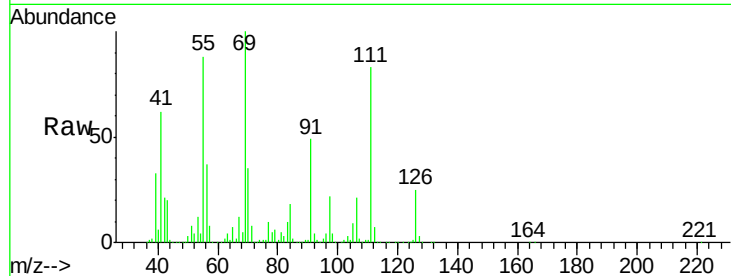




#63
 1,1,2,2-Tetrachloroethane
 Concen: 1.03 ppbv
 RT: 14.01 min Scan# 4020
 Delta R.T. 0.00 min
 Lab File: VL031277.D
 Acq: 20 Dec 2017 20:03

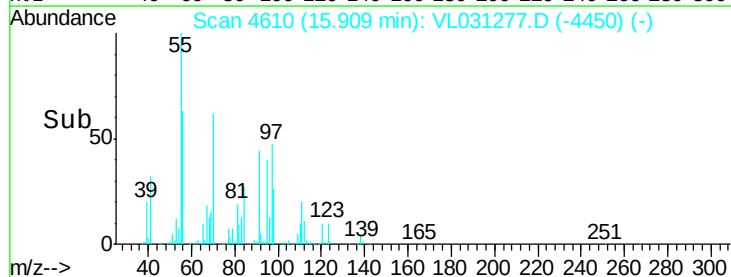
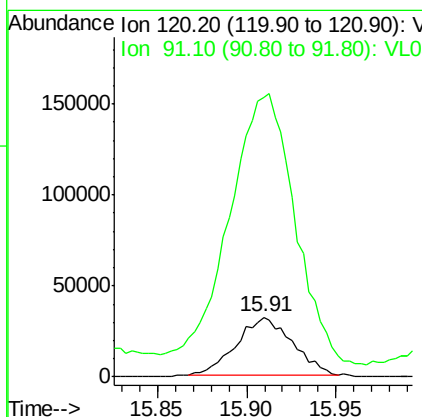
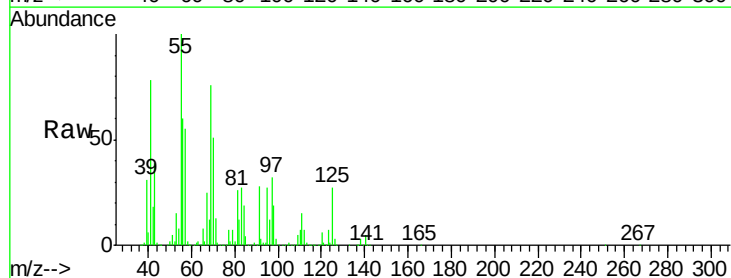
Instrument :
 MSVOA_L
 ClientSampleId :
 EP1-SV-2

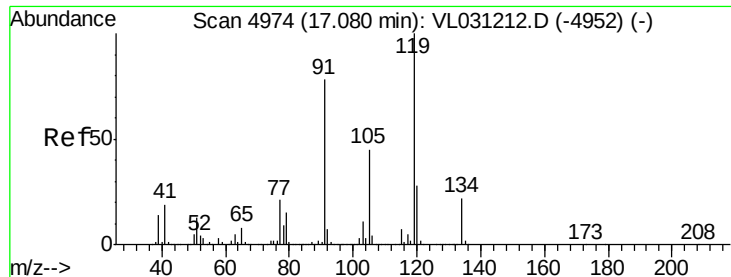
Tgt Ion: 83 Resp: 325812
 Ion Ratio Lower Upper
 83 100
 131 0.1 4.8 14.3#
 85 29.1 32.1 96.5#



#64
 n-propylbenzene
 Concen: 0.42 ppbv
 RT: 15.91 min Scan# 4610
 Delta R.T. 0.01 min
 Lab File: VL031277.D
 Acq: 20 Dec 2017 20:03

Tgt Ion: 120 Resp: 68814
 Ion Ratio Lower Upper
 120 100
 91 557.1 352.1 528.1#

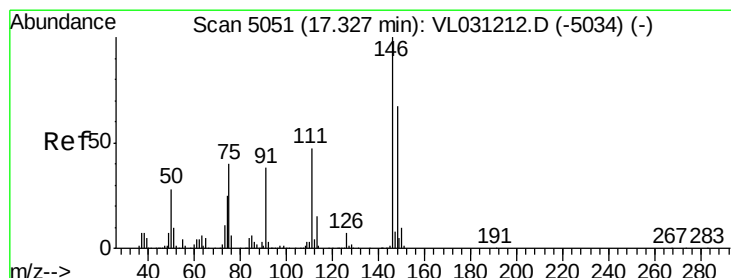
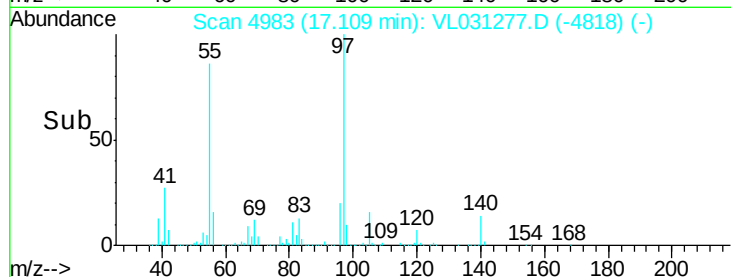
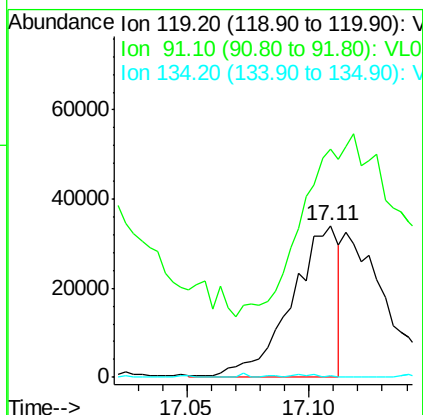
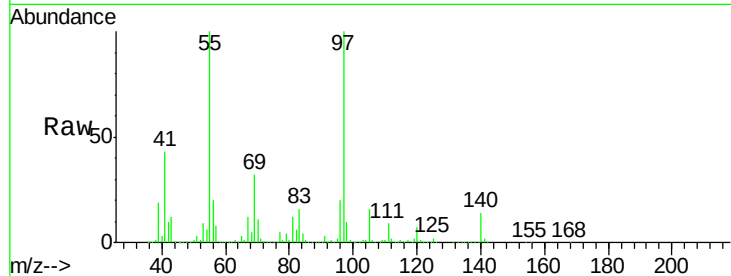




#65
 tert-Butylbenzene
 Concen: 0.08 ppbv
 RT: 17.11 min Scan# 4983
 Delta R.T. 0.03 min
 Lab File: VL031277.D
 Acq: 20 Dec 2017 20:03

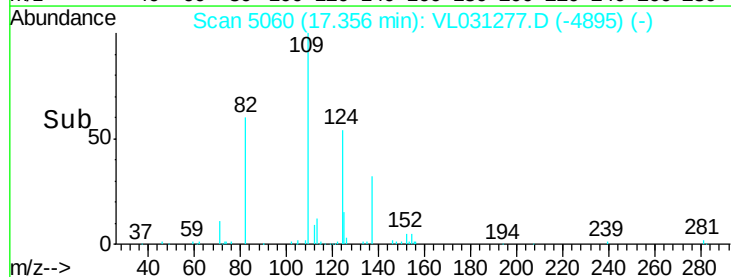
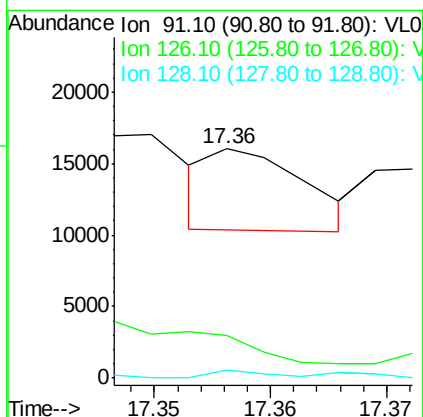
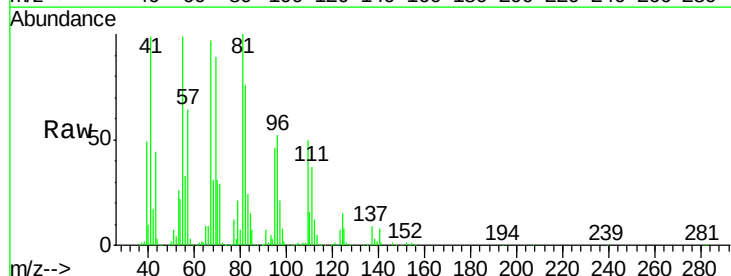
Instrument :
 MSVOA_L
 ClientSampleId :
 EP1-SV-2

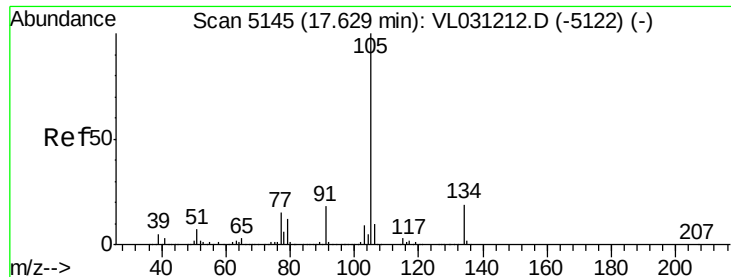
Tgt Ion: 119 Resp: 45198
 Ion Ratio Lower Upper
 119 100
 91 0.0 63.3 94.9#
 134 1.4 16.1 24.1#



#66
 Benzyl Chloride
 Concen: 0.05 ppbv
 RT: 17.36 min Scan# 5060
 Delta R.T. 0.03 min
 Lab File: VL031277.D
 Acq: 20 Dec 2017 20:03

Tgt Ion: 91 Resp: 3170
 Ion Ratio Lower Upper
 91 100
 126 0.0 15.2 22.8#
 128 0.0 4.9 7.3#

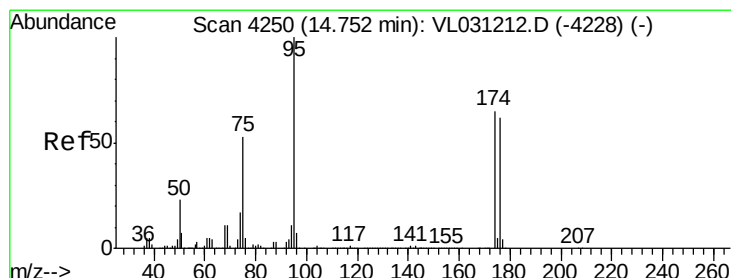
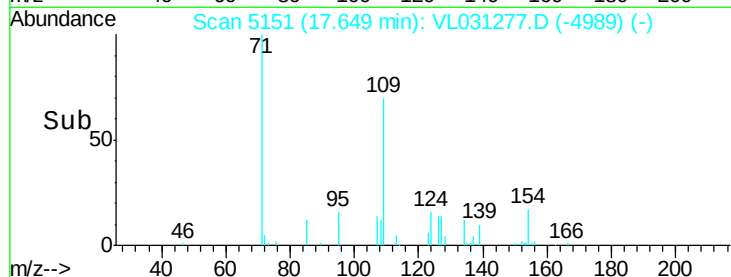
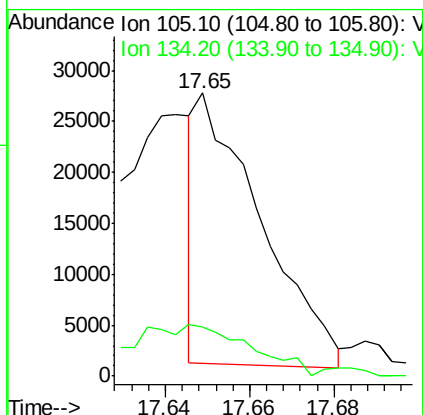
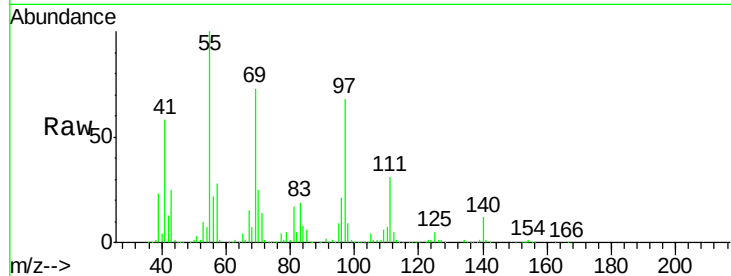




#67
 sec-Butylbenzene
 Concen: 0.04 ppbv
 RT: 17.65 min Scan# 5151
 Delta R.T. 0.02 min
 Lab File: VL031277.D
 Acq: 20 Dec 2017 20:03

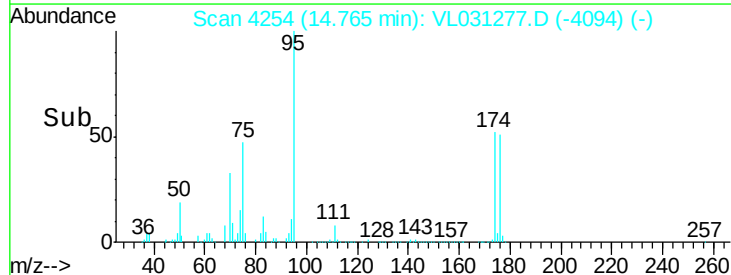
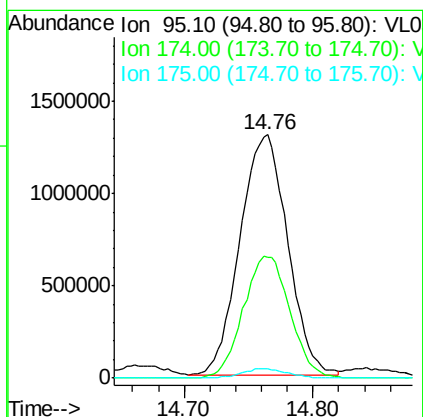
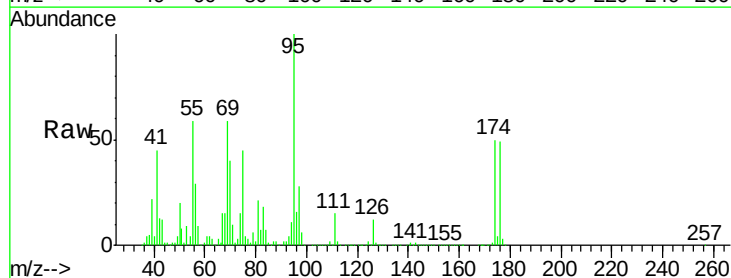
Instrument :
 MSVOA_L
 ClientSampleId :
 EP1-SV-2

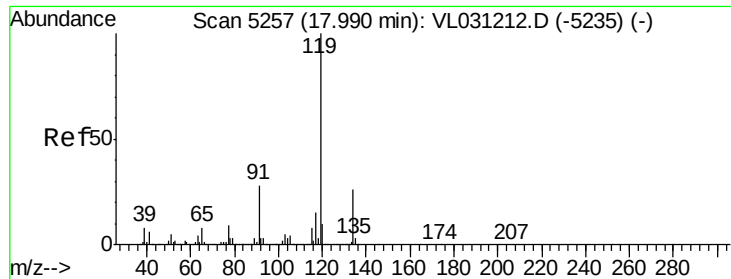
Tgt Ion: 105 Resp: 27914
 Ion Ratio Lower Upper
 105 100
 134 42.1 15.3 22.9#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 13.20 ppbv
 RT: 14.76 min Scan# 4254
 Delta R.T. 0.01 min
 Lab File: VL031277.D
 Acq: 20 Dec 2017 20:03

Tgt Ion: 95 Resp: 3333534
 Ion Ratio Lower Upper
 95 100
 174 49.9 52.5 78.7#
 175 3.8 4.1 6.1#

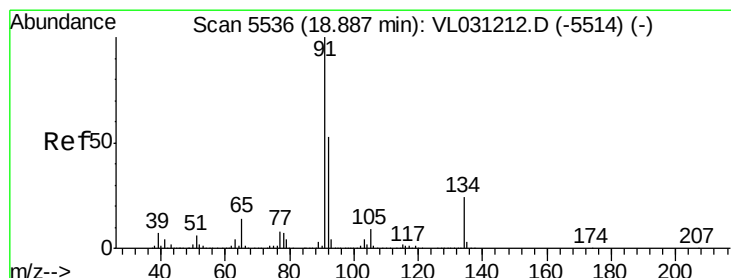
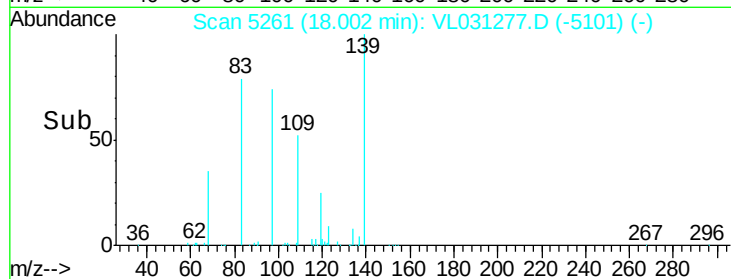
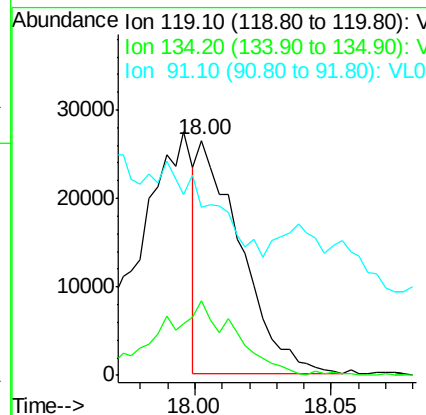
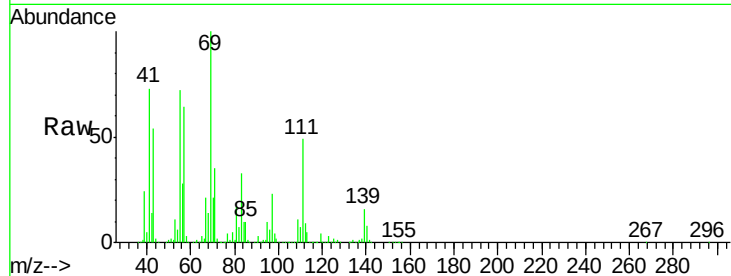




#69
 p-Isopropyltoluene
 Concen: 0.05 ppbv
 RT: 18.00 min Scan# 5261
 Delta R.T. 0.01 min
 Lab File: VL031277.D
 Acq: 20 Dec 2017 20:03

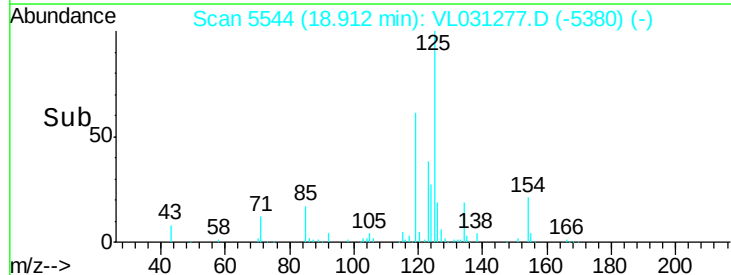
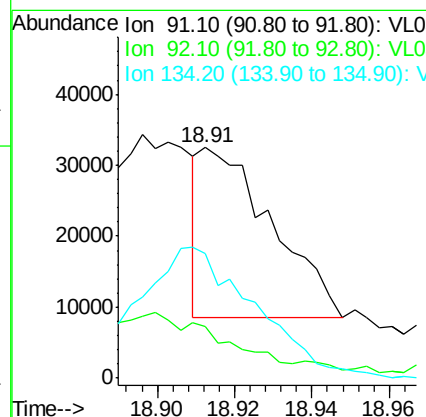
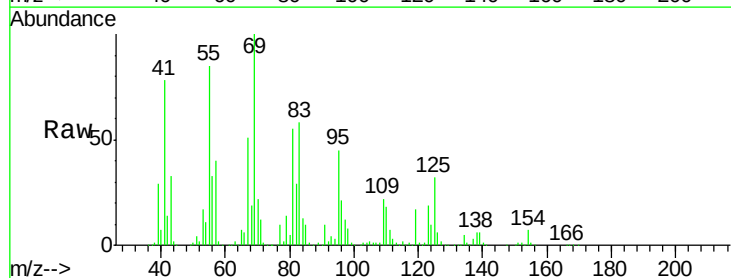
Instrument :
 MSVOA_L
 ClientSampleId :
 EP1-SV-2

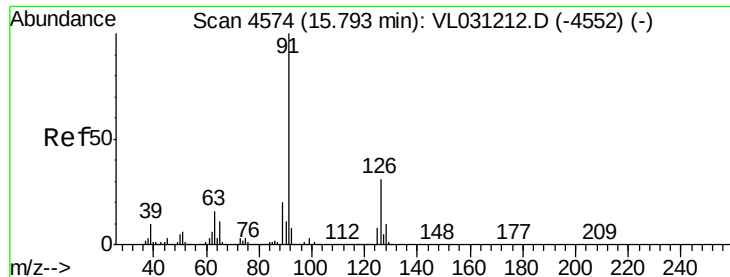
Tgt Ion: 119 Resp: 28610
 Ion Ratio Lower Upper
 119 100
 134 60.8 20.7 31.1#
 91 108.0 22.3 33.5#



#70
 n-Butylbenzene
 Concen: 0.05 ppbv
 RT: 18.91 min Scan# 5544
 Delta R.T. 0.03 min
 Lab File: VL031277.D
 Acq: 20 Dec 2017 20:03

Tgt Ion: 91 Resp: 30386
 Ion Ratio Lower Upper
 91 100
 92 0.0 43.4 65.2#
 134 170.5 19.3 28.9#





#71

2-Chlorotoluene

Concen: 0.84 ppbv

RT: 15.91 min Scan# 4611

Delta R.T. 0.12 min

Lab File: VL031277.D

Acq: 20 Dec 2017 20:03

Instrument :

MSVOA_L

ClientSampleId :

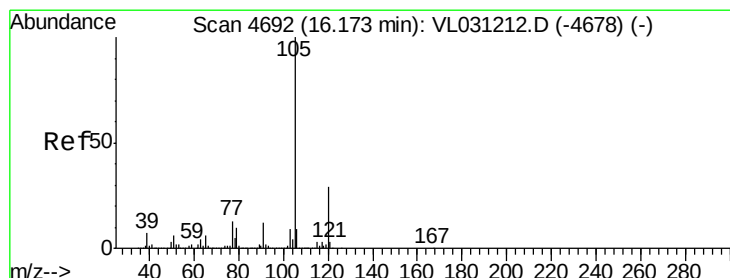
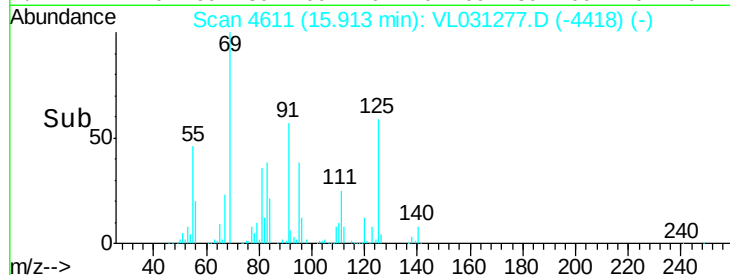
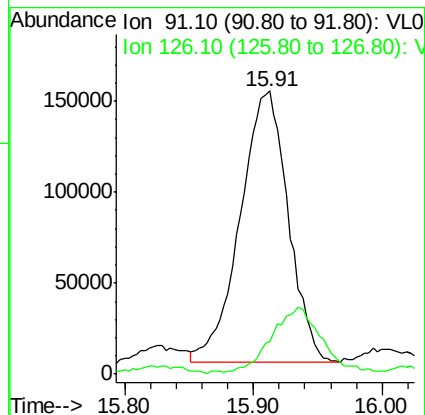
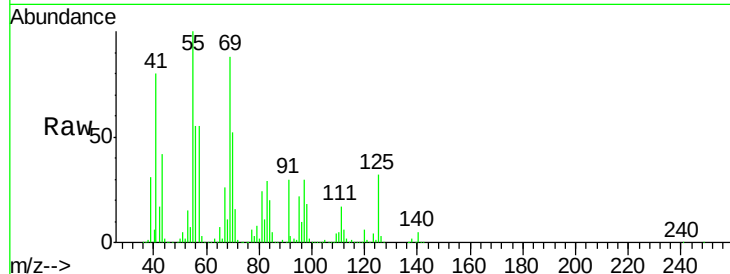
EP1-SV-2

Tgt Ion: 91 Resp: 385587

Ion Ratio Lower Upper

91 100

126 24.5 12.6 50.6



#72

4-Ethyltoluene

Concen: 0.59 ppbv

RT: 16.19 min Scan# 4696

Delta R.T. 0.01 min

Lab File: VL031277.D

Acq: 20 Dec 2017 20:03

Tgt Ion: 105 Resp: 306102

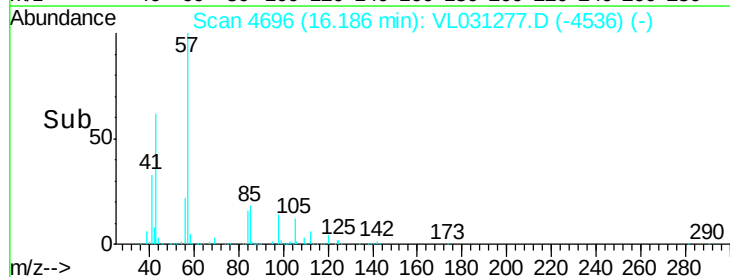
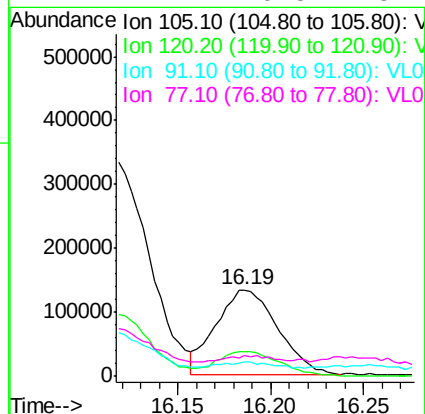
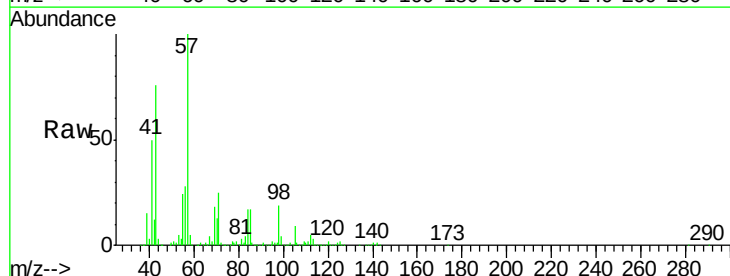
Ion Ratio Lower Upper

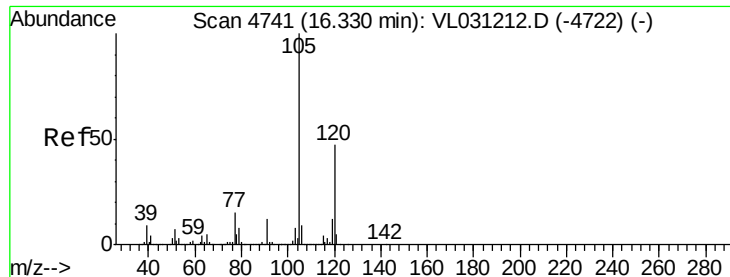
105 100

120 30.5 24.2 36.2

91 12.2 9.8 14.8

77 21.2 10.5 15.7#

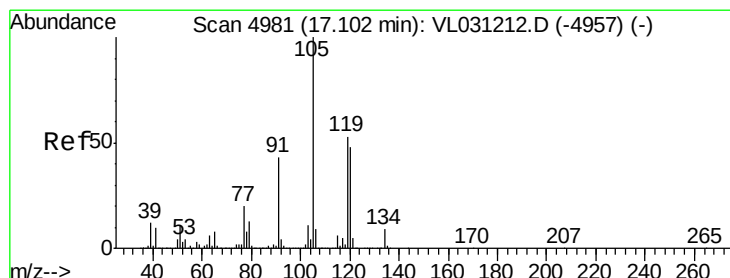
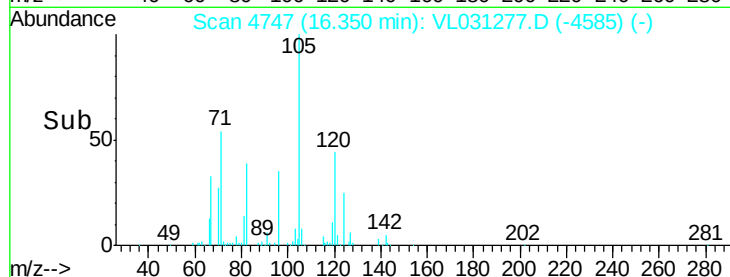
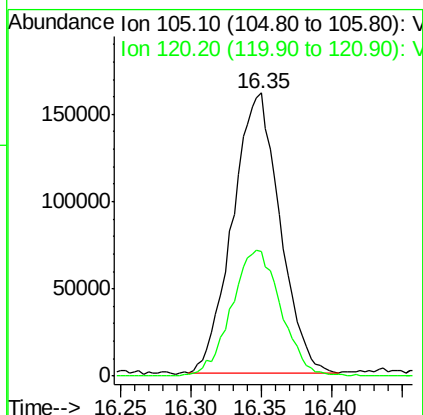
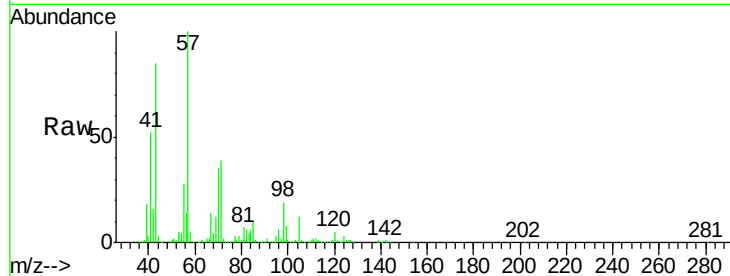




#73
 1,3,5-Trimethylbenzene
 Concen: 0.81 ppbv
 RT: 16.35 min Scan# 4747
 Delta R.T. 0.02 min
 Lab File: VL031277.D
 Acq: 20 Dec 2017 20:03

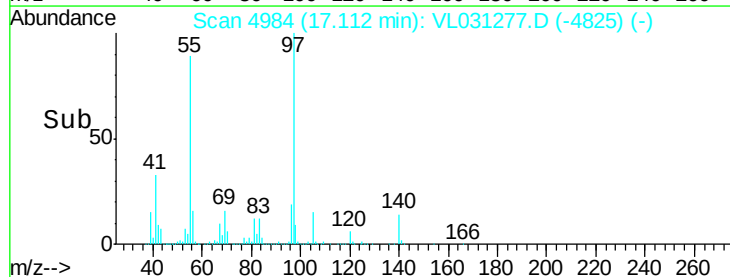
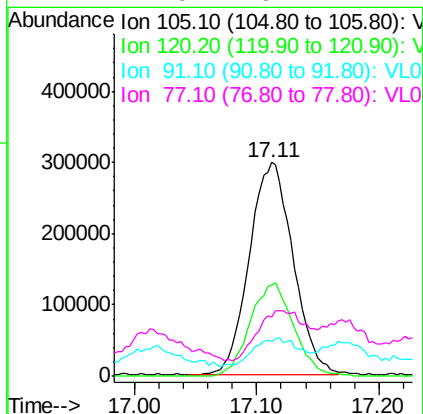
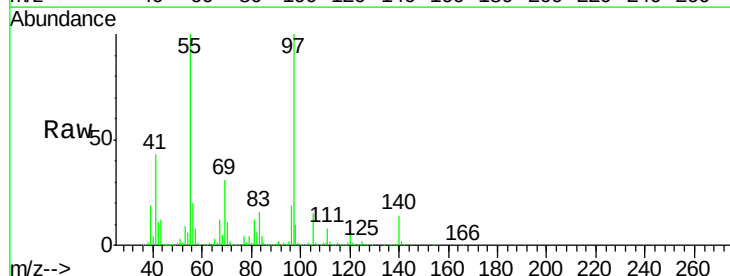
Instrument :
 MSVOA_L
 ClientSampleId :
 EP1-SV-2

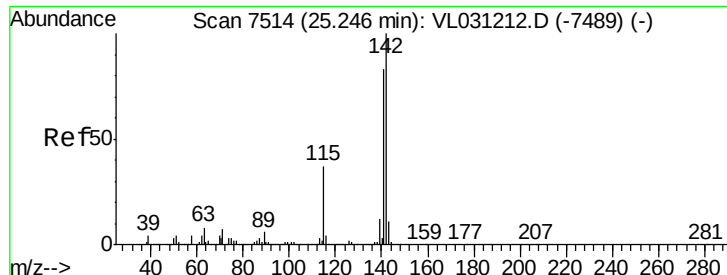
Tgt Ion:105 Resp: 375585
 Ion Ratio Lower Upper
 105 100
 120 44.0 37.8 56.6



#74
 1,2,4-Trimethylbenzene
 Concen: 1.53 ppbv
 RT: 17.11 min Scan# 4984
 Delta R.T. 0.01 min
 Lab File: VL031277.D
 Acq: 20 Dec 2017 20:03

Tgt Ion:105 Resp: 740812
 Ion Ratio Lower Upper
 105 100
 120 43.0 38.6 58.0
 91 9.3 34.2 51.4#
 77 14.0 16.1 24.1#





#80

Naphthalene, 2-methyl-

Concen: 0.04 ppbv

RT: 25.25 min Scan# 7515

Delta R.T. 0.00 min

Lab File: VL031277.D

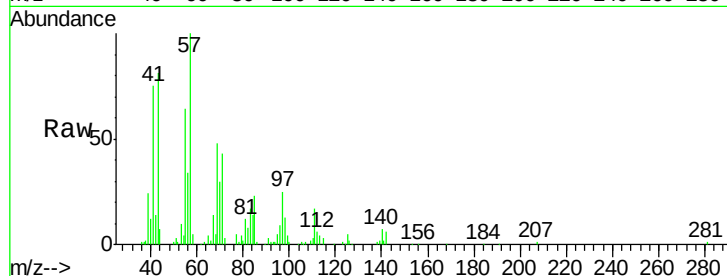
Acq: 20 Dec 2017 20:03

Instrument :

MSVOA_L

ClientSampleId :

EP1-SV-2



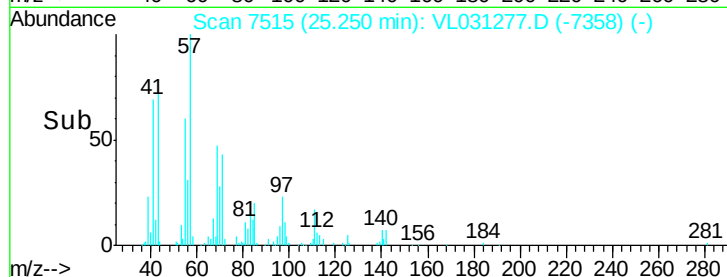
Tgt Ion:142 Resp: 5192

Ion Ratio Lower Upper

142 100

141 79.4 66.8 100.2

115 39.5 29.7 44.5



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

