

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL102521\
 Data File : VL037900.D
 Acq On : 25 Oct 2021 19:17
 Operator : SY/AP
 Sample : M4339-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SVE-INFLUENT

Quant Time: Oct 25 23:52:04 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL100421AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct 04 17:43:54 2021
 QLast Update : Mon Oct 04 17:43:54 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1381437	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	7.19	114	3940542	10.00	ppbv	0.01
55) Chlorobenzene-d5	12.10	117	3298379	10.00	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	2390111	10.36	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.60%

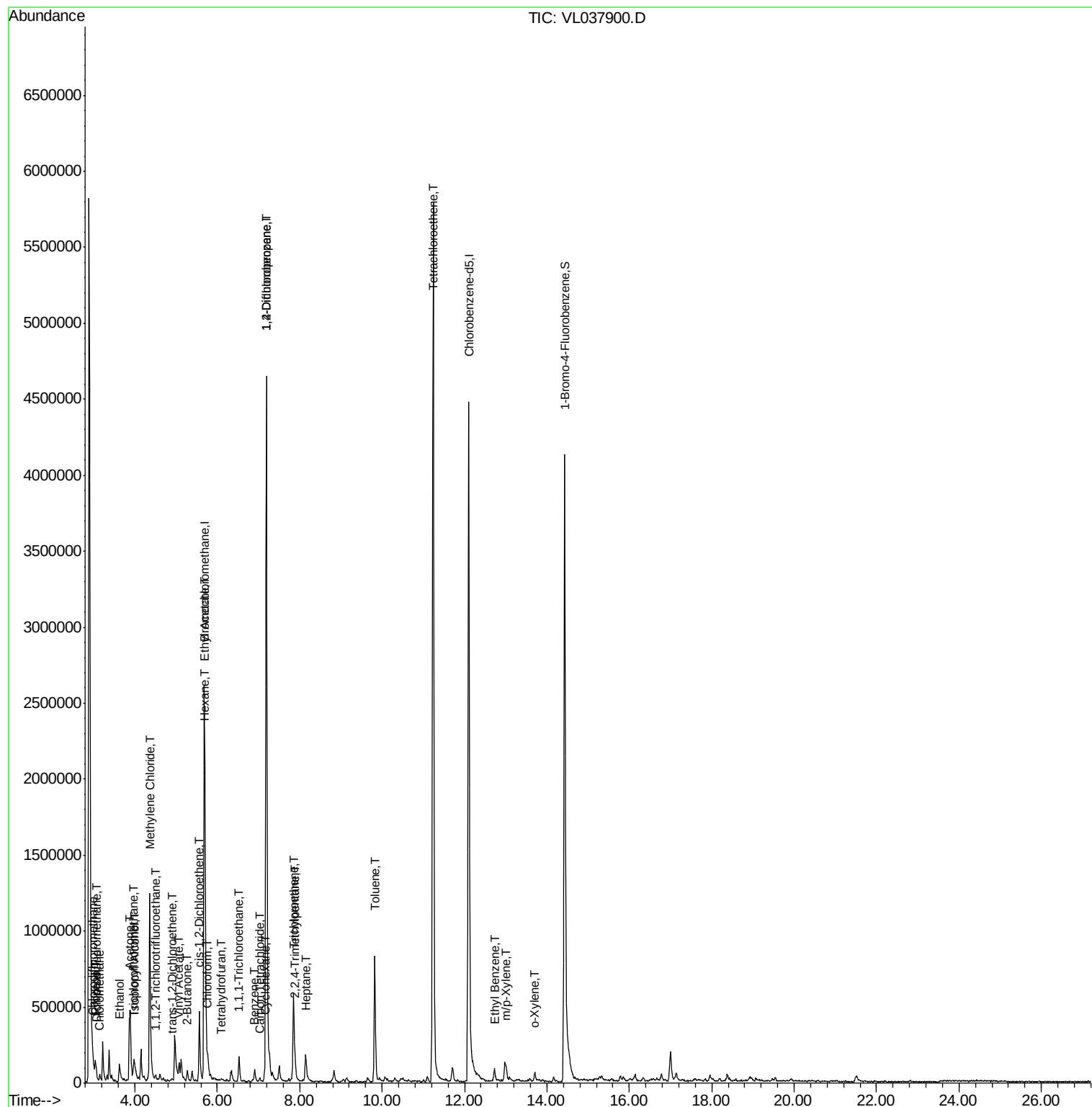
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.06	85	46651	0.211 ppbv	97
3) Chlorodifluoromethane	3.00	51	136060	0.513 ppbv #	82
4) Chloromethane	3.15	50	14571	0.150 ppbv #	86
9) Propene	3.03	41	32787	0.336 ppbv	100
10) Heptane	8.14	43	27357	0.123 ppbv #	21
11) Trichlorofluoromethane	3.96	101	67330	0.342 ppbv	93
12) 1,1,2-Trichlorotrifluoroet	4.50	101	7313	0.049 ppbv #	57
13) Ethanol	3.62	45	161435	20.212 ppbv	83
15) Acetone	3.87	43	664775	5.361 ppbv	95
19) Isopropyl Alcohol	3.98	45	110179	1.428 ppbv #	96
20) Methylene Chloride	4.36	84	522968	8.346 ppbv	98
22) trans-1,2-Dichloroethene	4.90	96	2885	0.042 ppbv #	32
23) Vinyl Acetate	5.08	43	56597	0.305 ppbv #	35
25) Ethyl Acetate	5.70	43	258505	0.743 ppbv #	82
26) Hexane	5.71	57	146275	0.854 ppbv #	1
29) Chloroform	5.77	83	53741	0.219 ppbv	98
30) Cyclohexane	7.15	84	5725	0.039 ppbv #	1
31) cis-1,2-Dichloroethene	5.56	61	288494	1.855 ppbv	96
32) 1,1,1-Trichloroethane	6.52	97	52086	0.224 ppbv #	18
34) 2-Butanone	5.27	43	83979	0.528 ppbv #	89
35) Carbon Tetrachloride	7.03	117	7663	0.034 ppbv	84
36) Benzene	6.90	78	27251	0.081 ppbv	93
38) Trichloroethene	7.85	130	105324	0.792 ppbv	93
39) 1,2-Dichloropropane	7.19	63	913325	7.214 ppbv #	28
41) Tetrahydrofuran	6.08	42	1604	0.021 ppbv #	1
44) 2,2,4-Trimethylpentane	7.89	57	40295	0.071 ppbv #	1
52) Tetrachloroethene	11.24	164	1622363	12.389 ppbv	93
53) Toluene	9.82	91	670388	1.797 ppbv	98
58) Ethyl Benzene	12.73	91	19934	0.045 ppbv	92
59) m/p-Xylene	13.01	91	29433	0.077 ppbv #	30
60) o-Xylene	13.71	91	26242	0.072 ppbv #	53

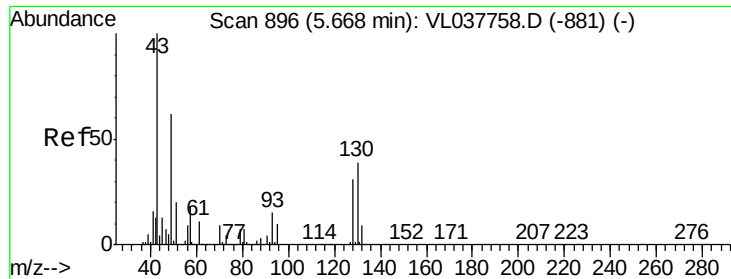
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 Instrument: MSVOA_L

Delta R.T.

Lab File: ClientSampleId:

Acq: 25 Oct 2021 19:17 SVE-INFLUENT

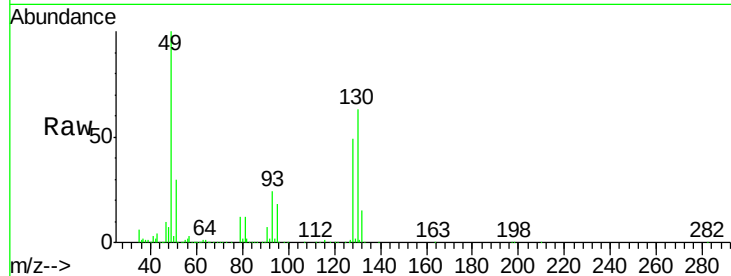
Tgt Ion: 49 Resp: 1381437

Ion Ratio Lower Upper

49 100

128 52.9 27.1 81.3

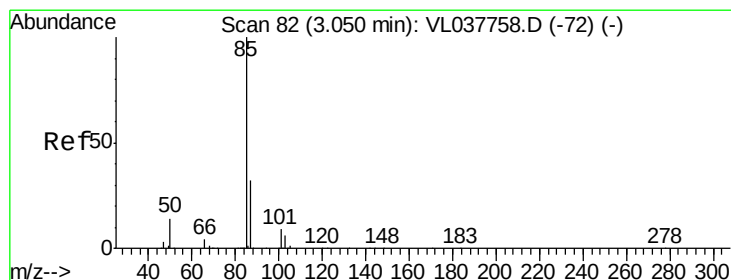
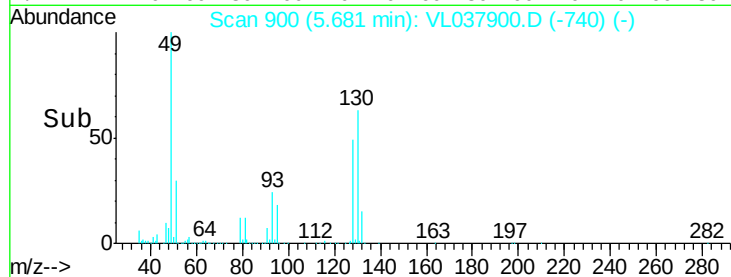
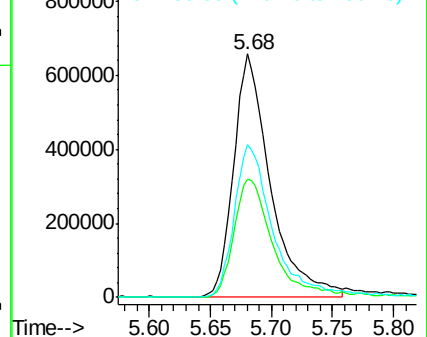
130 67.8 33.2 99.6



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: 0.211 ppbv

RT: 3.06 min Scan# 86

Delta R.T. 0.01 min

Lab File: VL037900.D

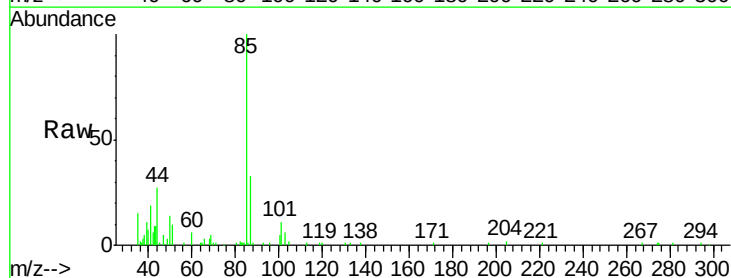
Acq: 25 Oct 2021 19:17

Tgt Ion: 85 Resp: 46651

Ion Ratio Lower Upper

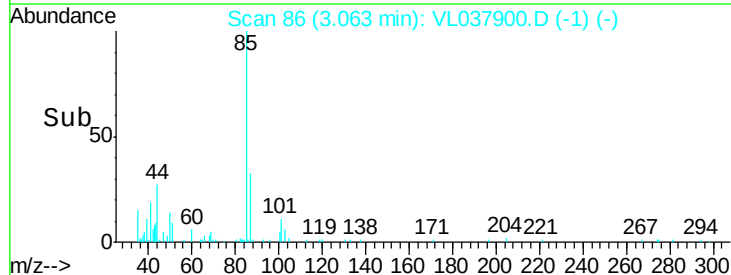
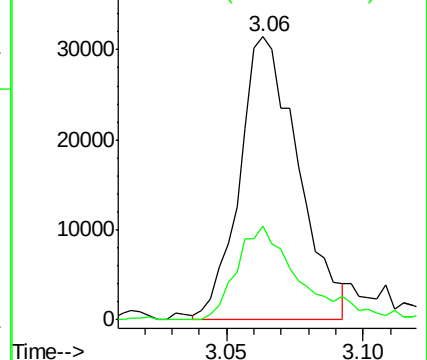
85 100

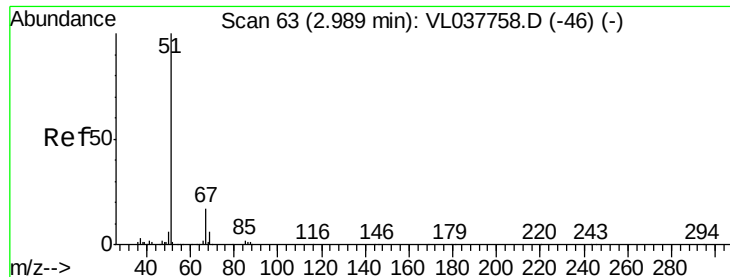
87 33.5 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.513 ppbv

RT: 3.00 Instrument:

Delta R.T. MSVOA.L

Lab File: ClientSampleId:

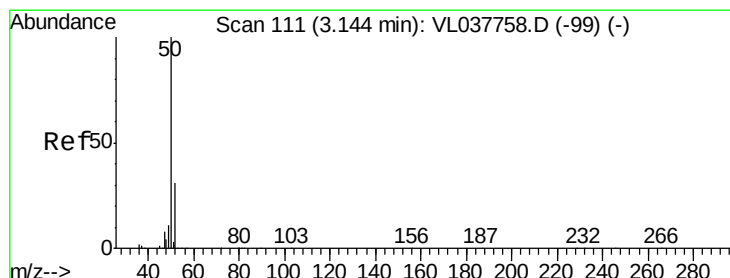
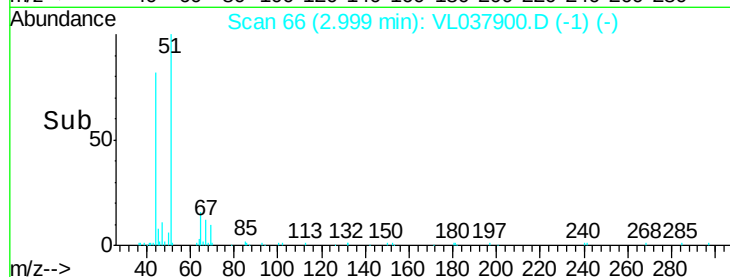
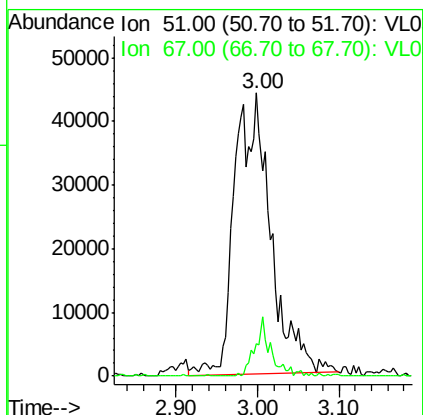
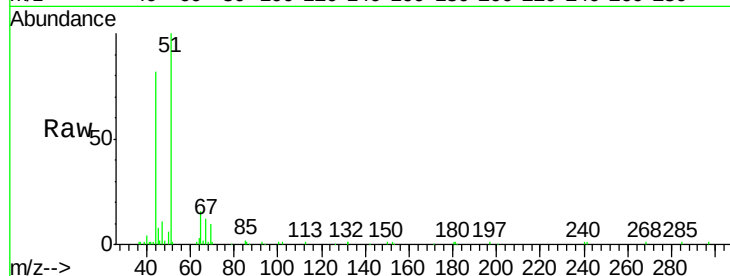
Acq: 25 Oct 2021 19:17 SVE-INFLUENT

Tgt Ion: 51 Resp: 136060

Ion Ratio Lower Upper

51 100

67 9.1 13.5 20.3#



#4

Chloromethane

Concen: 0.150 ppbv

RT: 3.15 min Scan# 114

Delta R.T. 0.01 min

Lab File: VL037900.D

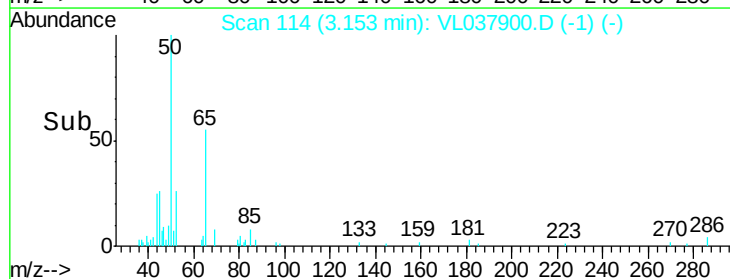
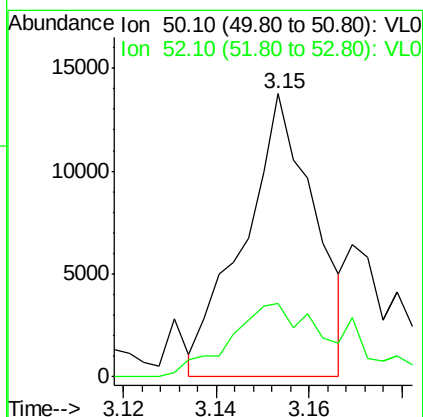
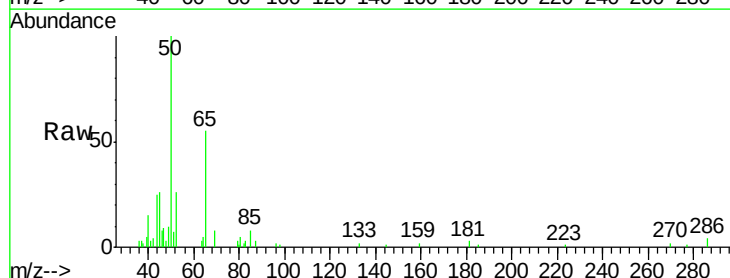
Acq: 25 Oct 2021 19:17

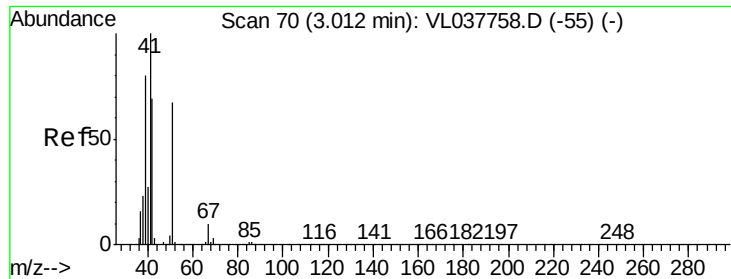
Tgt Ion: 50 Resp: 14571

Ion Ratio Lower Upper

50 100

52 22.7 24.4 36.6#





#9

Propene

Concen: 0.336 ppbv

RT: 3.03 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

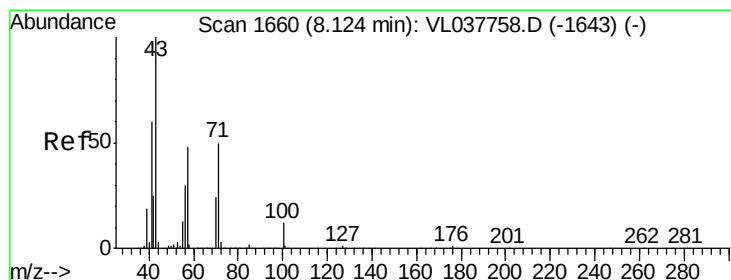
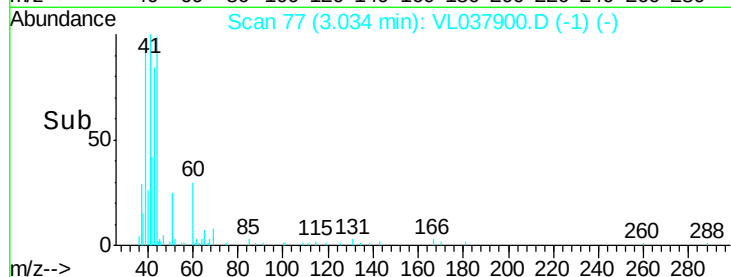
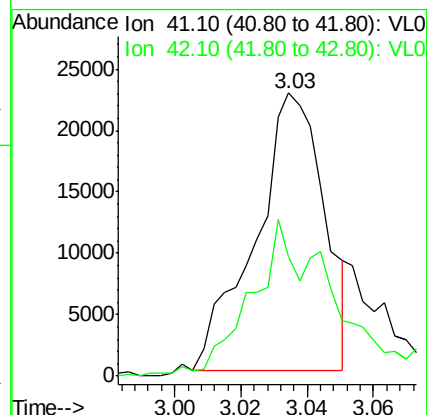
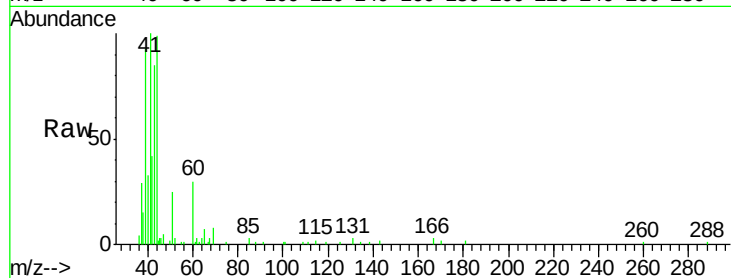
Acq: 25 Oct 2021 19:17 SVE-INFLUENT

Tgt Ion: 41 Resp: 32787

Ion Ratio Lower Upper

41 100

42 68.0 54.2 81.2



#10

Heptane

Concen: 0.123 ppbv

RT: 8.14 min Scan# 1666

Delta R.T. 0.02 min

Lab File: VL037900.D

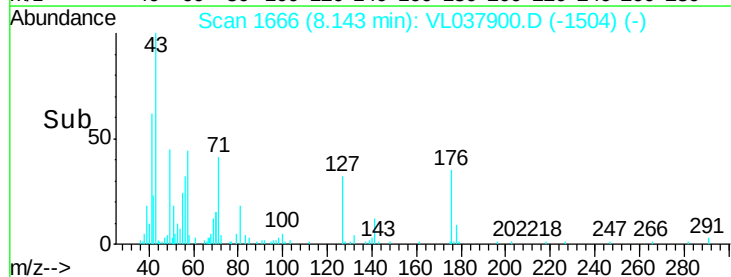
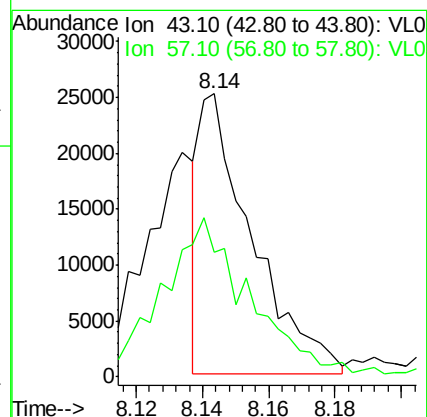
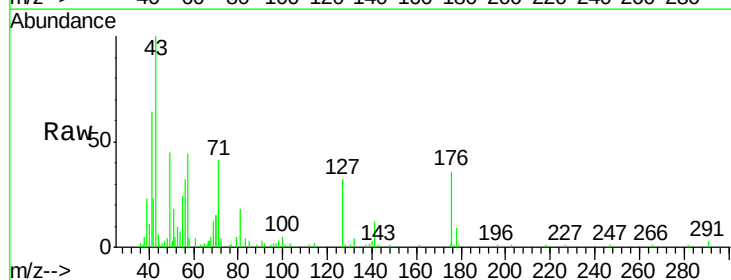
Acq: 25 Oct 2021 19:17

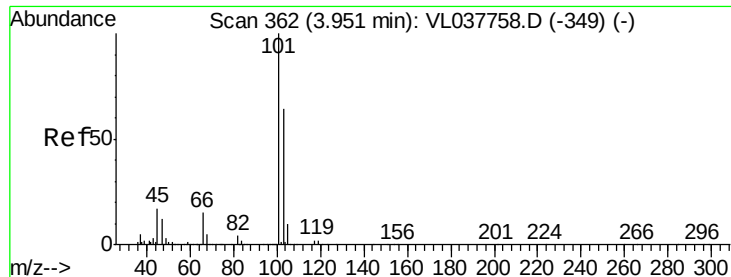
Tgt Ion: 43 Resp: 27357

Ion Ratio Lower Upper

43 100

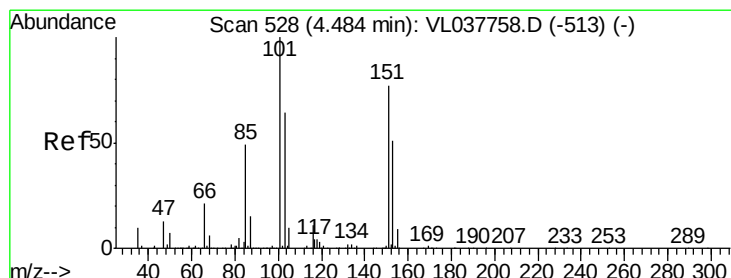
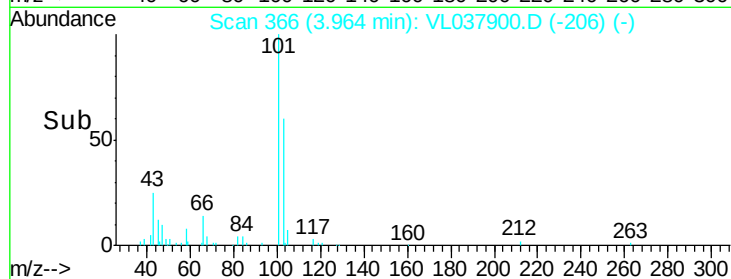
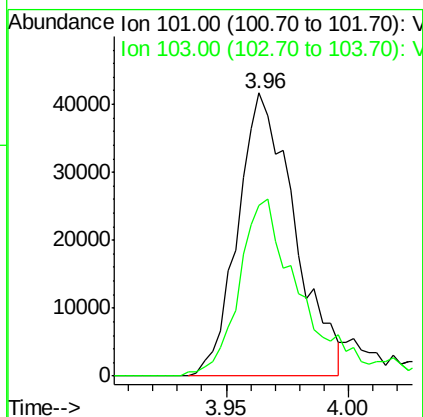
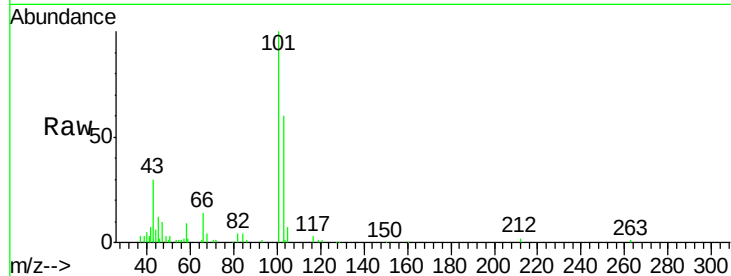
57 104.3 40.0 60.0#





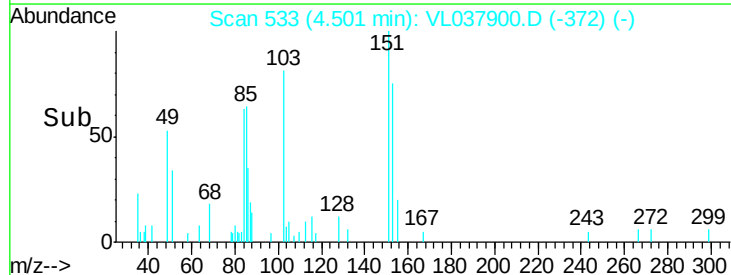
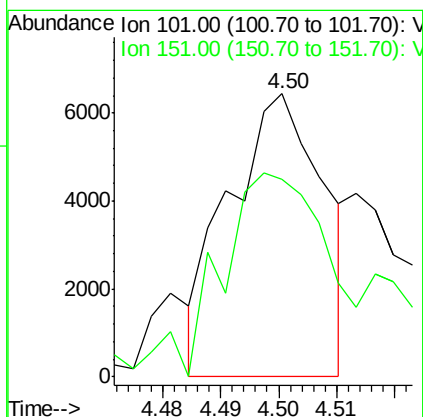
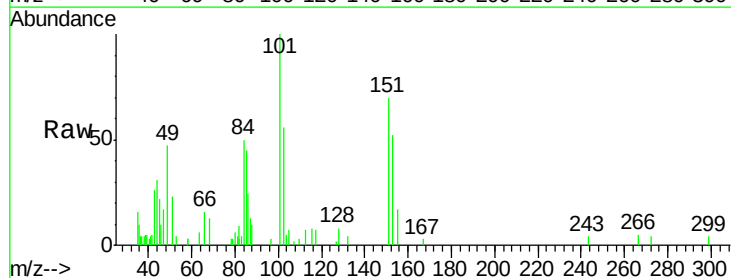
#11
 Trichlorofluoromethane
 Concen: 0.342 ppbv
 RT: 3.96
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 25 Oct 2021 19:17

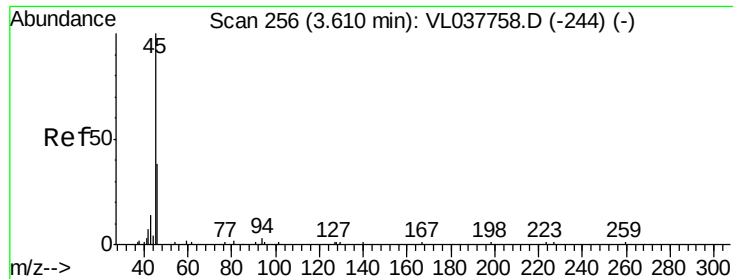
Tgt Ion:101 Resp: 67330
 Ion Ratio Lower Upper
 101 100
 103 58.8 51.5 77.3



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.049 ppbv
 RT: 4.50 min Scan# 533
 Delta R.T. 0.02 min
 Lab File: VL037900.D
 Acq: 25 Oct 2021 19:17

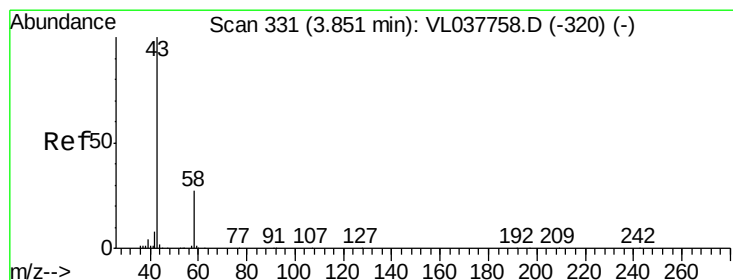
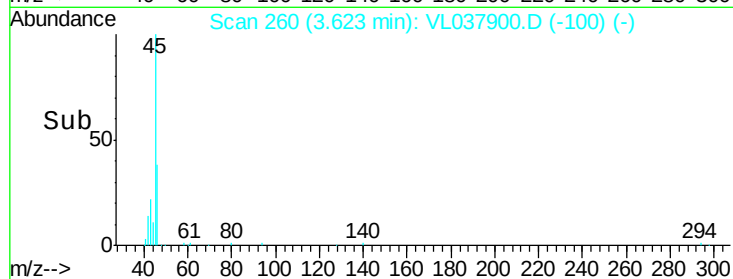
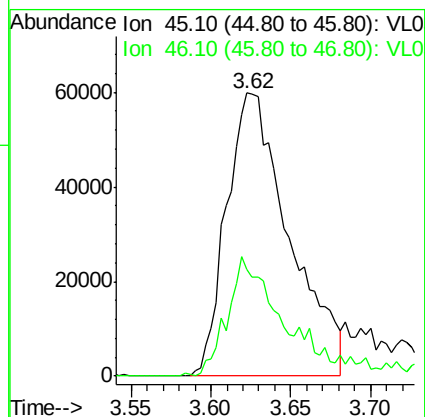
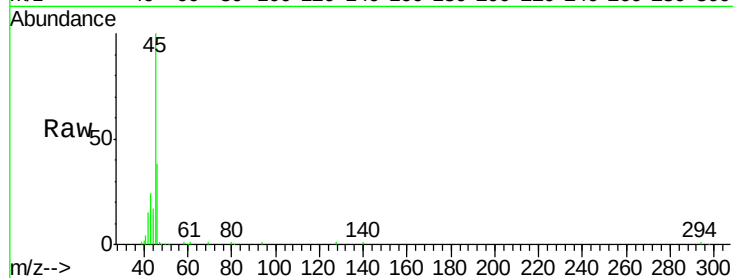
Tgt Ion:101 Resp: 7313
 Ion Ratio Lower Upper
 101 100
 151 116.4 62.9 94.3#





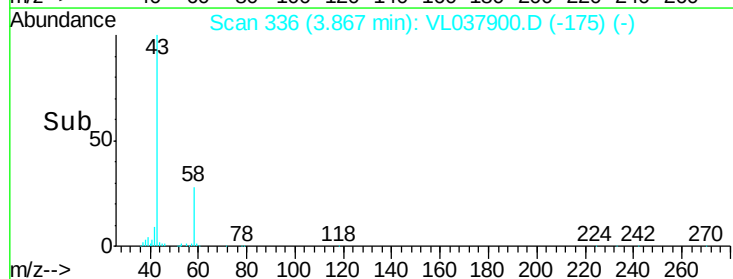
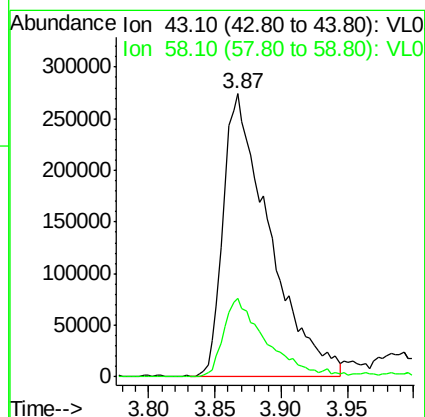
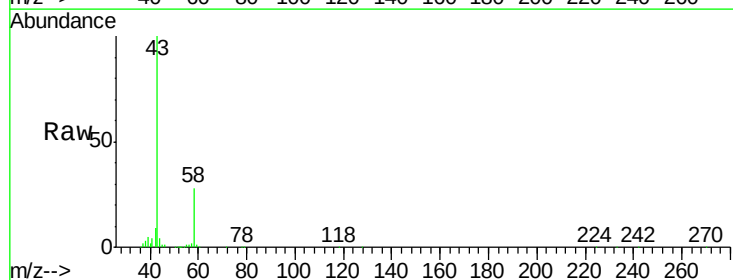
#13
 Ethanol
 Concen: 20.212 ppbv
 RT: 3.62
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 25 Oct 2021 19:17

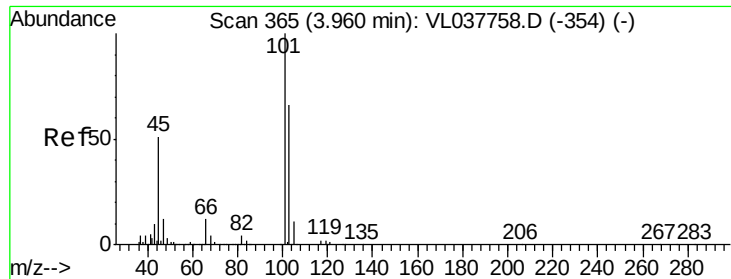
Tgt Ion: 45 Resp: 161435
 Ion Ratio Lower Upper
 45 100
 46 39.0 20.2 81.0



#15
 Acetone
 Concen: 5.361 ppbv
 RT: 3.87 min Scan# 336
 Delta R.T. 0.02 min
 Lab File: VL037900.D
 Acq: 25 Oct 2021 19:17

Tgt Ion: 43 Resp: 664775
 Ion Ratio Lower Upper
 43 100
 58 26.2 23.0 34.6





#19

Isopropyl Alcohol

Concen: 1.428 ppbv

RT: 3.98

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

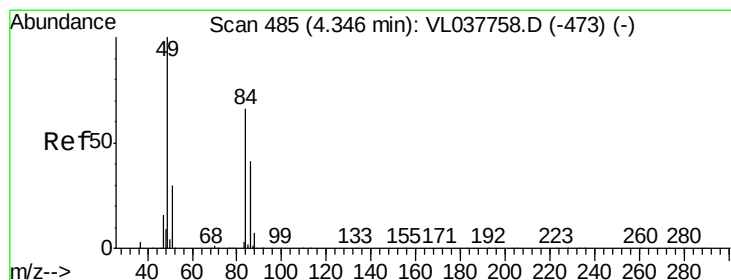
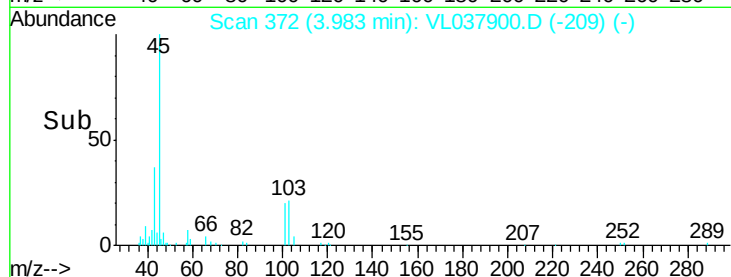
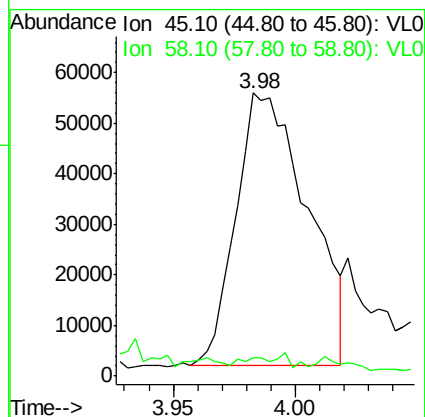
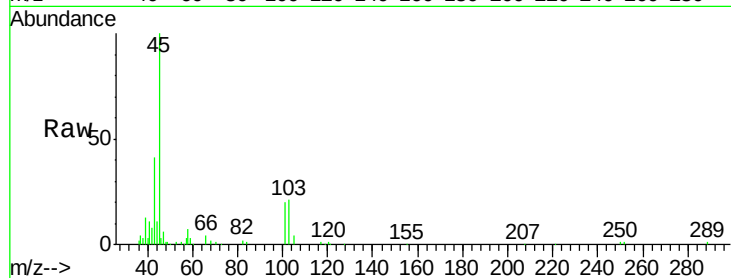
Acq: 25 Oct 2021 19:17 SVE-INFLUENT

Tgt Ion: 45 Resp: 110179

Ion Ratio Lower Upper

45 100

58 0.0 1.1 1.7#



#20

Methylene Chloride

Concen: 8.346 ppbv

RT: 4.36 min Scan# 490

Delta R.T. 0.02 min

Lab File: VL037900.D

Acq: 25 Oct 2021 19:17

Tgt Ion: 84 Resp: 522968

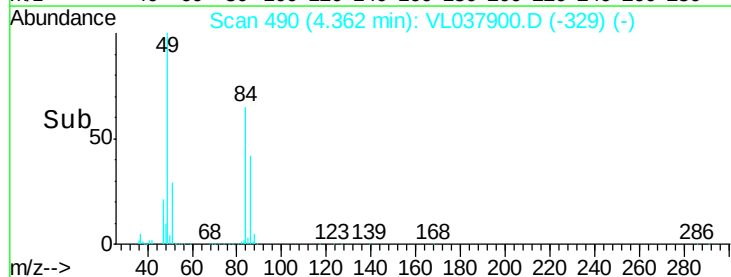
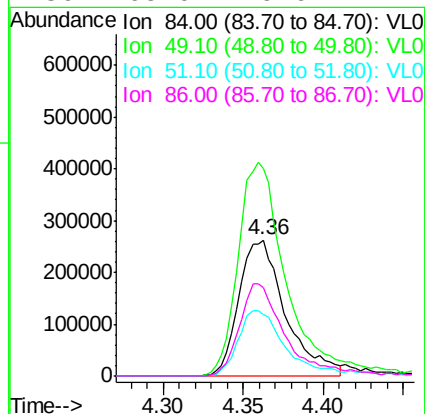
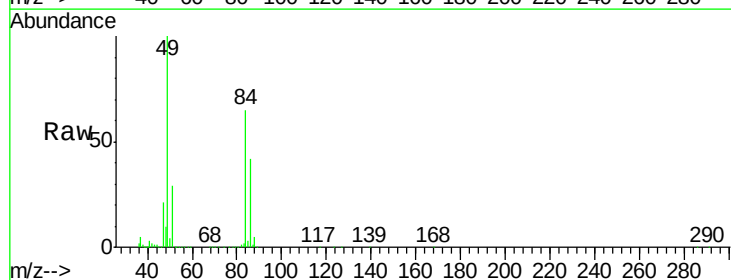
Ion Ratio Lower Upper

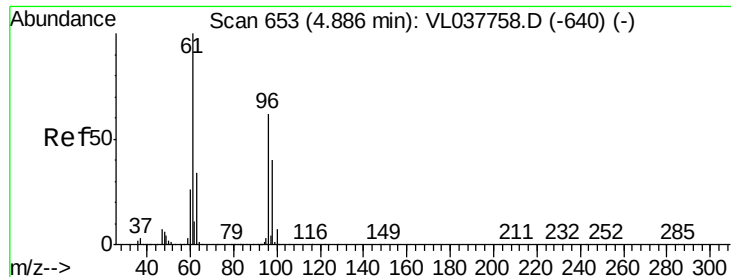
84 100

49 152.9 120.7 181.1

51 44.5 36.2 54.4

86 65.0 49.6 74.4





#22

trans-1,2-Dichloroethene

Concen: 0.042 ppbv

RT: 4.90 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 25 Oct 2021 19:17 SVE-INFLUENT

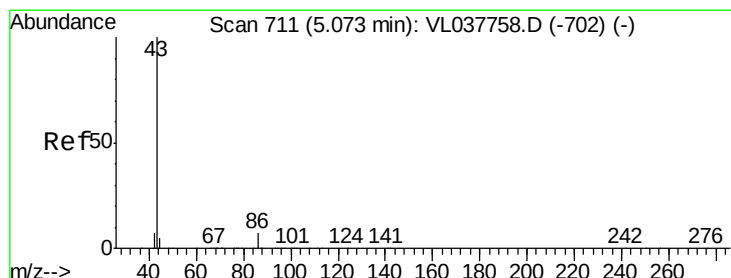
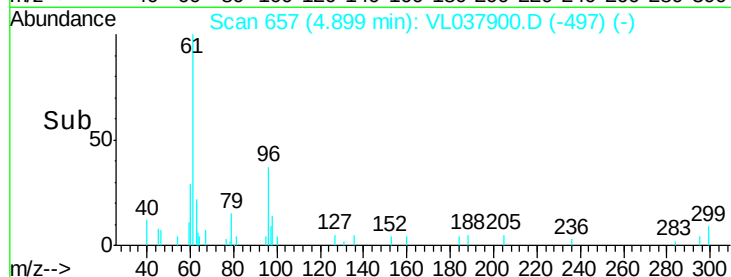
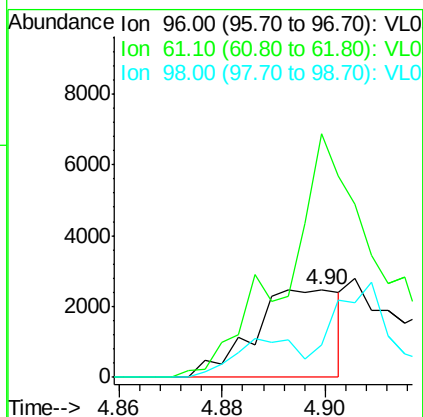
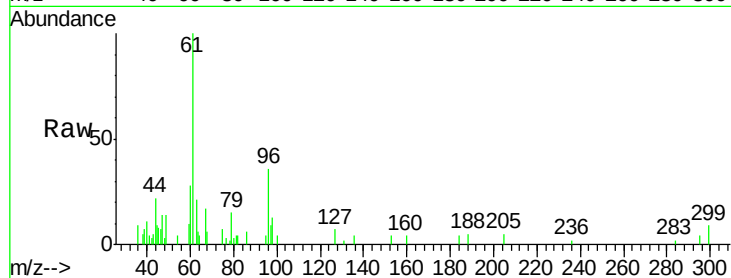
Tgt Ion: 96 Resp: 2885

Ion Ratio Lower Upper

96 100

61 269.3 129.0 193.6#

98 36.5 51.7 77.5#



#23

Vinyl Acetate

Concen: 0.305 ppbv

RT: 5.08 min Scan# 712

Delta R.T. 0.00 min

Lab File: VL037900.D

Acq: 25 Oct 2021 19:17

Tgt Ion: 43 Resp: 56597

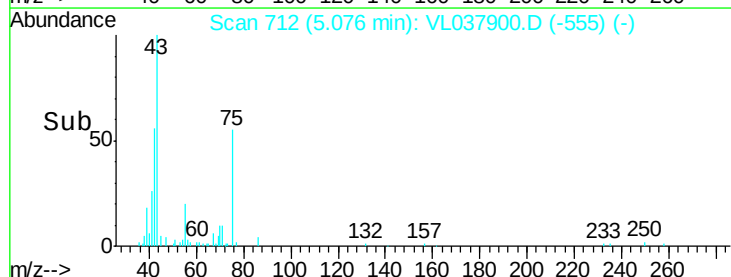
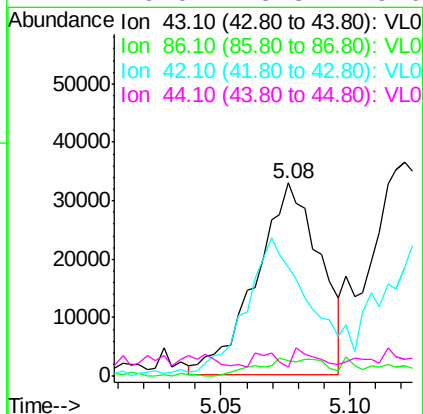
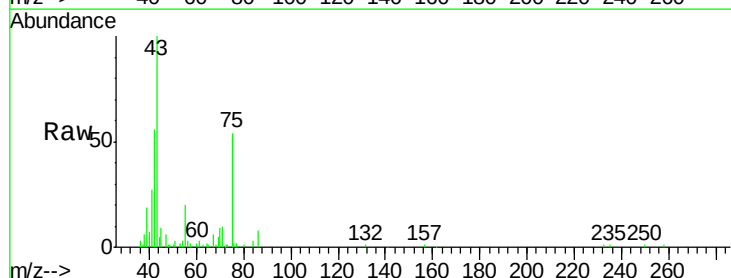
Ion Ratio Lower Upper

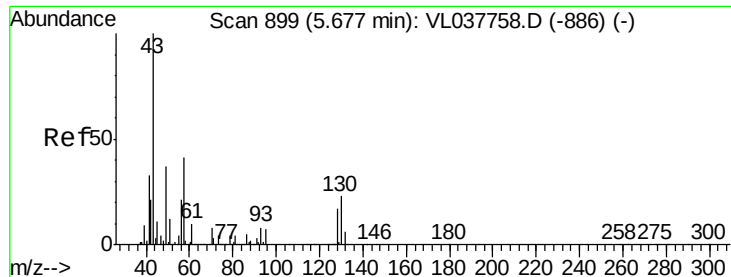
43 100

86 7.5 5.0 7.4#

42 57.6 7.4 11.0#

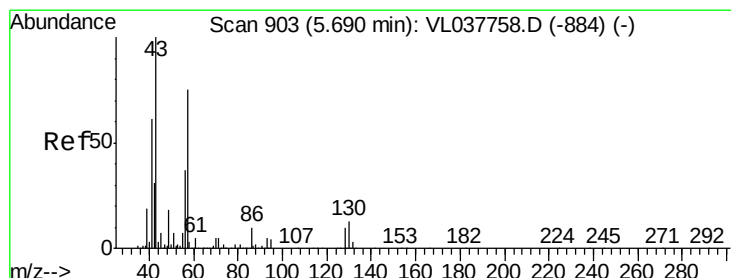
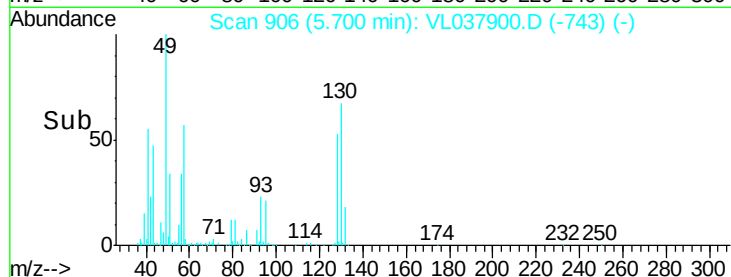
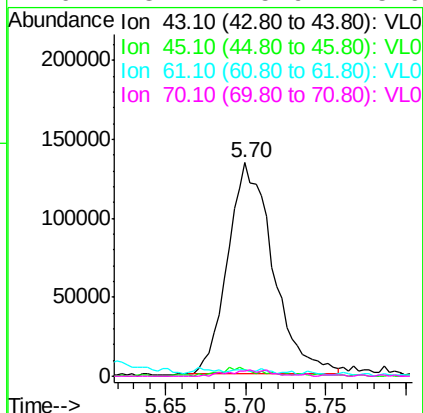
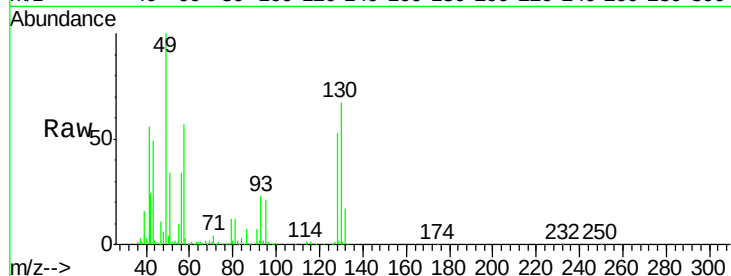
44 0.0 3.8 5.6#





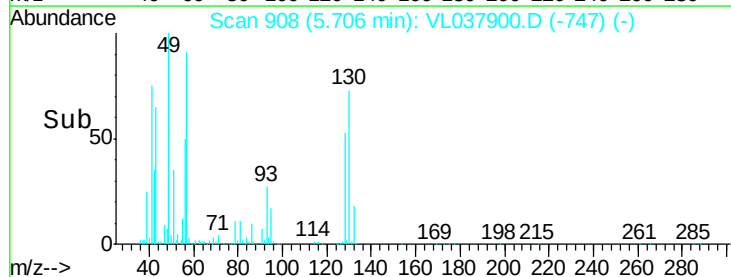
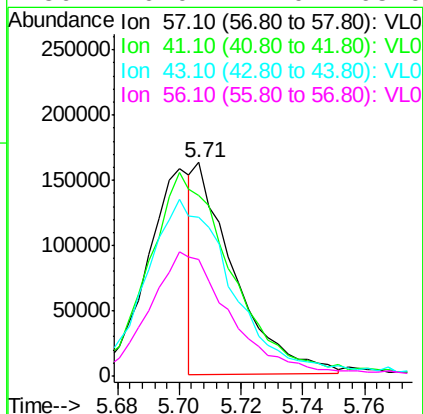
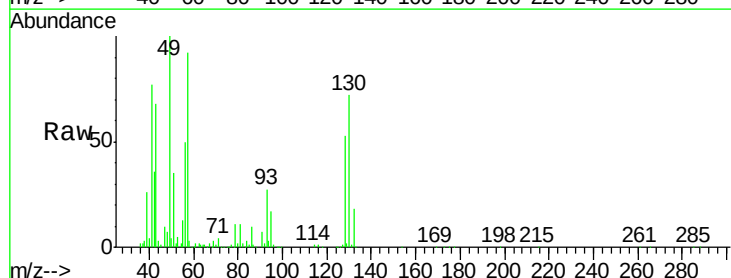
#25
Ethyl Acetate
Concen: 0.743 ppbv
RT: 5.70
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 25 Oct 2021 19:17

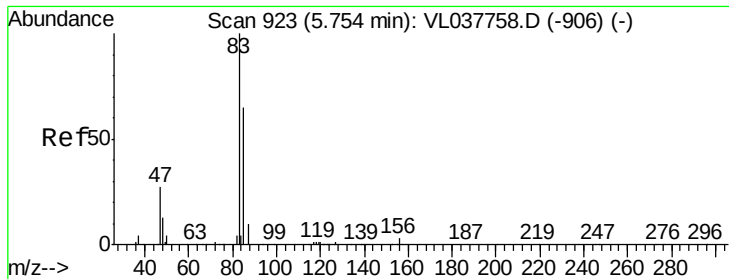
Tgt Ion:	43	Resp:	258505
Ion	Ratio	Lower	Upper
43	100		
45	4.7	8.1	12.1#
61	0.0	7.5	11.3#
70	3.4	5.9	8.9#



#26
Hexane
Concen: 0.854 ppbv
RT: 5.71 min Scan# 908
Delta R.T. 0.02 min
Lab File: VL037900.D
Acq: 25 Oct 2021 19:17

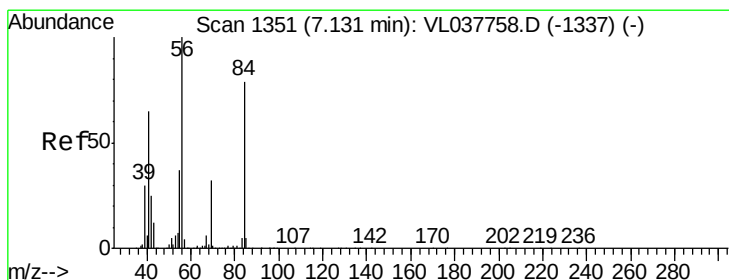
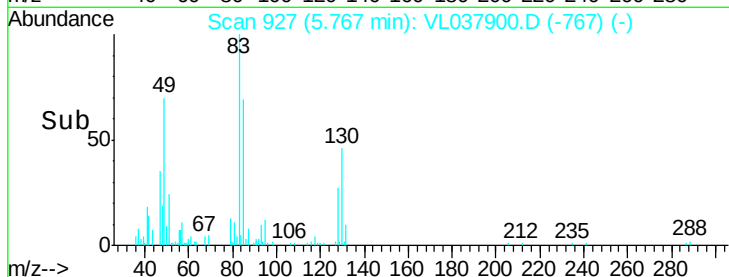
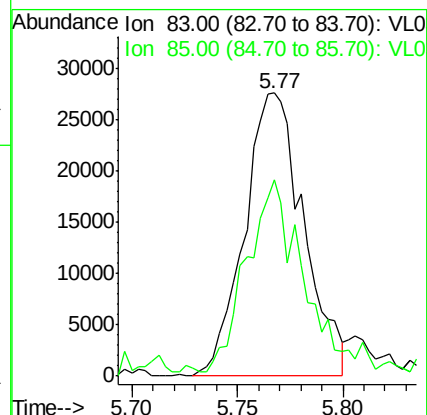
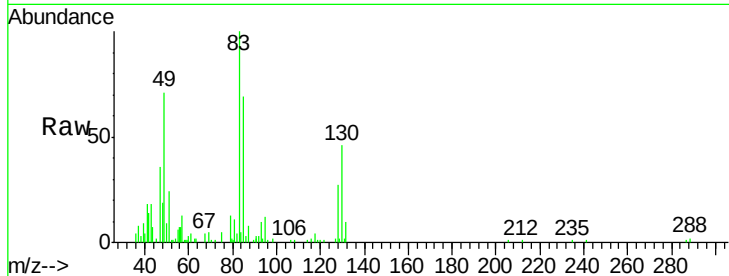
Tgt Ion:	57	Resp:	146275
Ion	Ratio	Lower	Upper
57	100		
41	0.0	69.6	104.4#
43	0.0	171.4	257.0#
56	0.0	42.0	63.0#





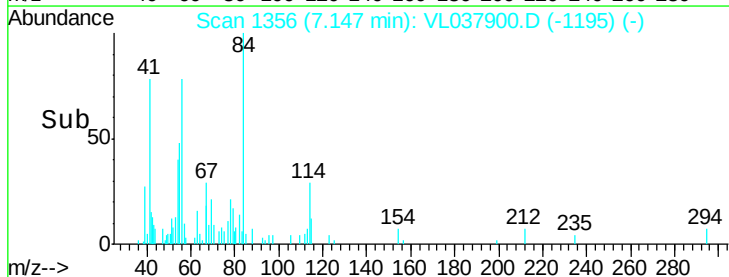
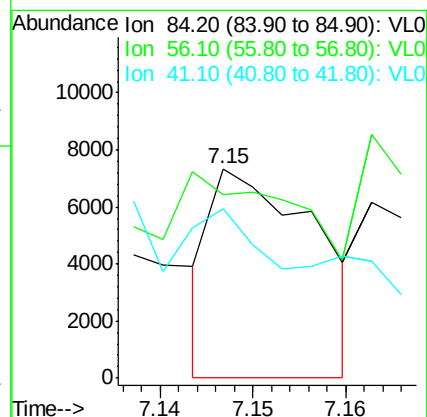
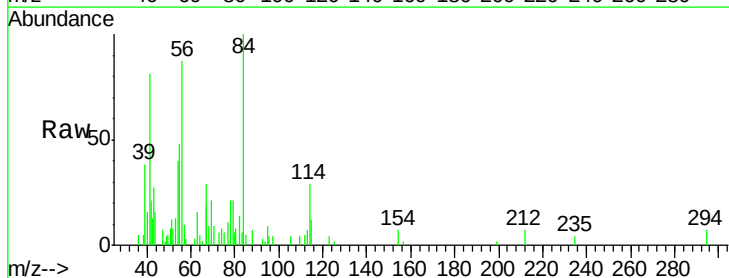
#29
Chloroform
Concen: 0.219 ppbv
RT: 5.77
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 25 Oct 2021 19:17

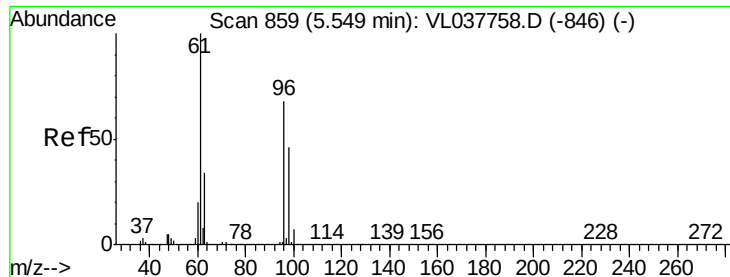
Tgt Ion: 83 Resp: 53741
Ion Ratio Lower Upper
83 100
85 66.3 51.8 77.8



#30
Cyclohexane
Concen: 0.039 ppbv
RT: 7.15 min Scan# 1356
Delta R.T. 0.02 min
Lab File: VL037900.D
Acq: 25 Oct 2021 19:17

Tgt Ion: 84 Resp: 5725
Ion Ratio Lower Upper
84 100
56 0.0 113.0 169.4#
41 0.0 69.1 103.7#





#31

cis-1,2-Dichloroethene

Concen: 1.855 ppbv

RT: 5.56 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 25 Oct 2021 19:17 SVE-INFLUENT

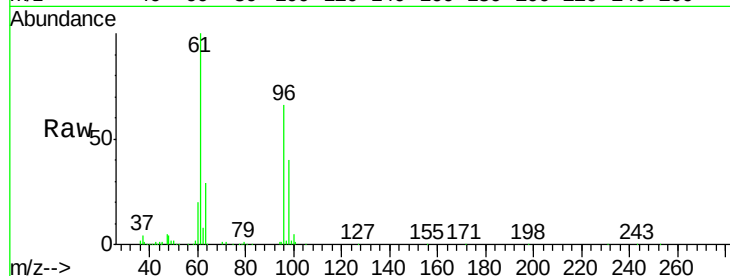
Tgt Ion: 61 Resp: 288494

Ion Ratio Lower Upper

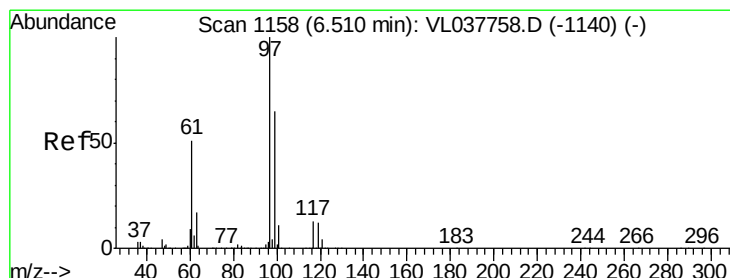
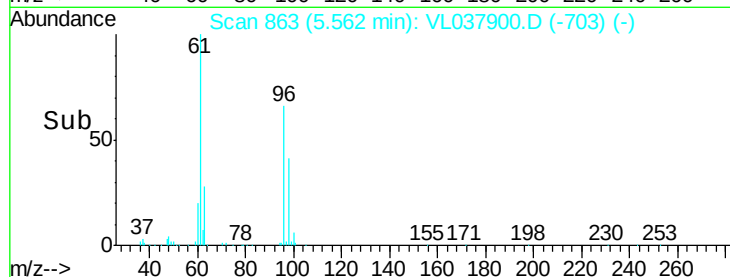
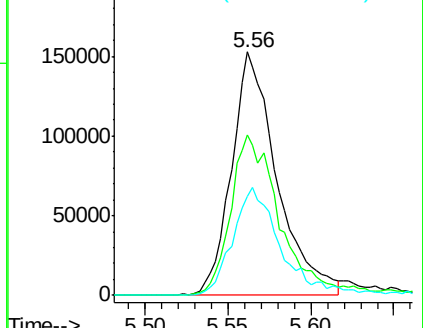
61 100

96 66.1 54.2 81.2

98 40.6 36.6 54.8



Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 0.224 ppbv

RT: 6.52 min Scan# 1162

Delta R.T. 0.01 min

Lab File: VL037900.D

Acq: 25 Oct 2021 19:17

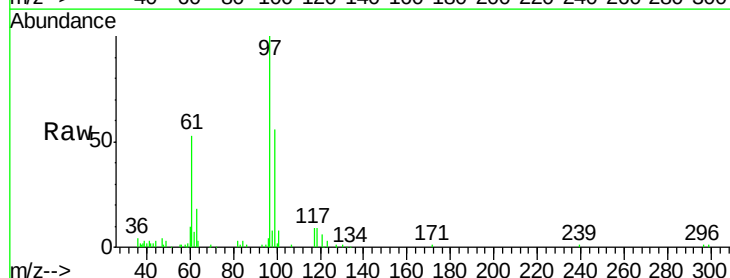
Tgt Ion: 97 Resp: 52086

Ion Ratio Lower Upper

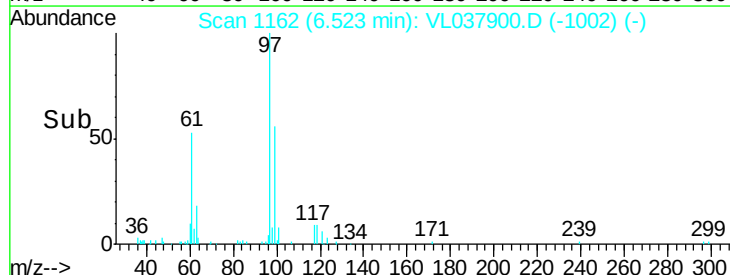
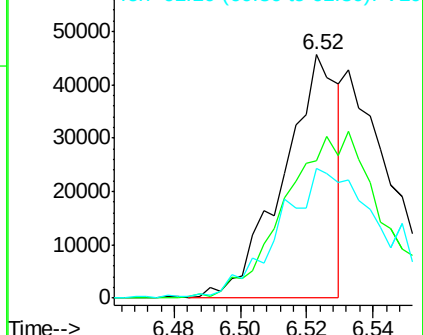
97 100

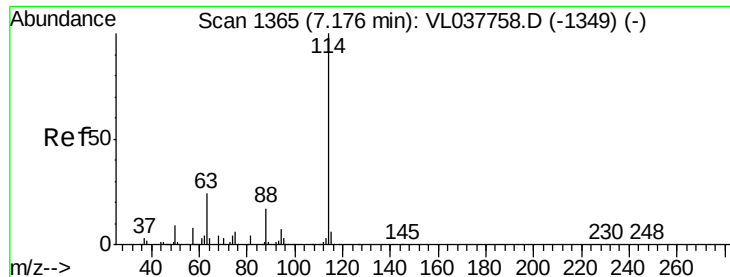
99 0.0 52.6 78.8#

61 106.2 40.2 60.4#



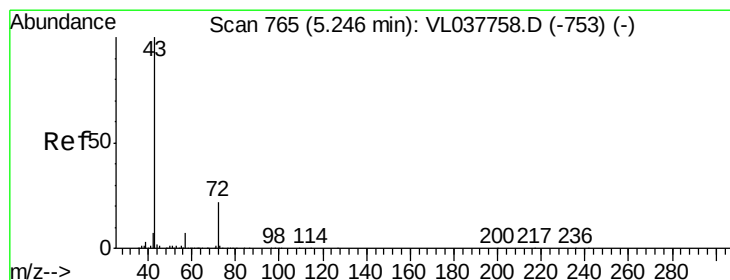
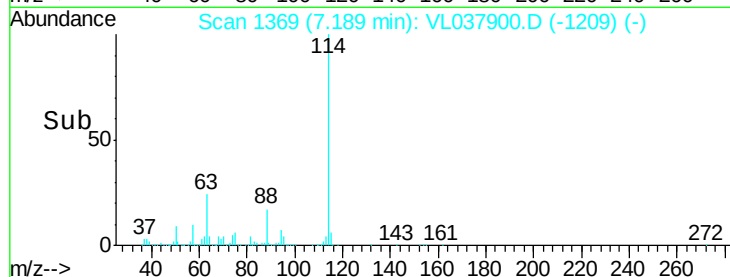
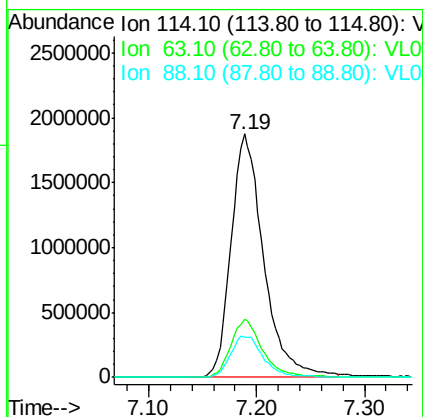
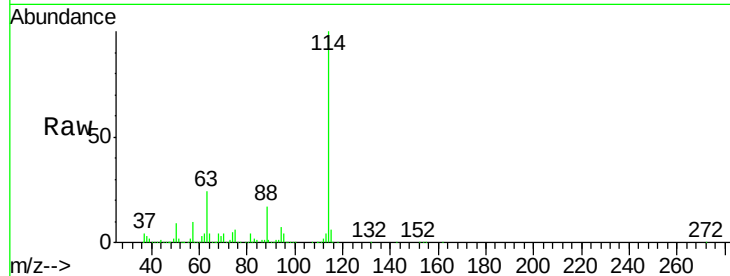
Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0





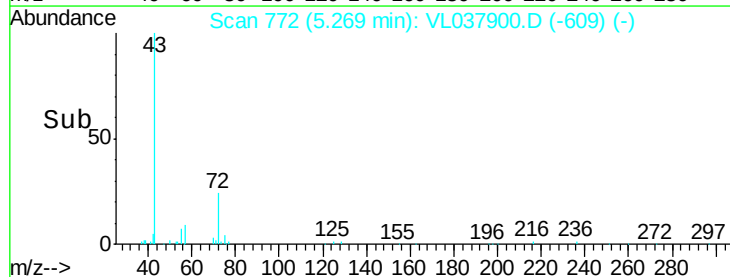
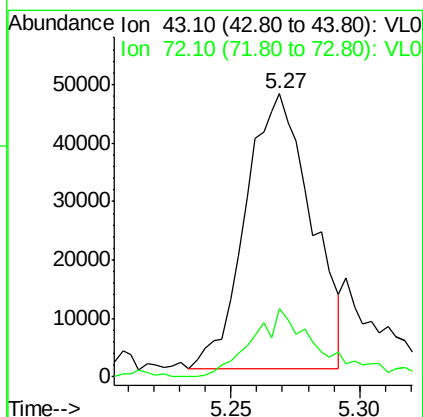
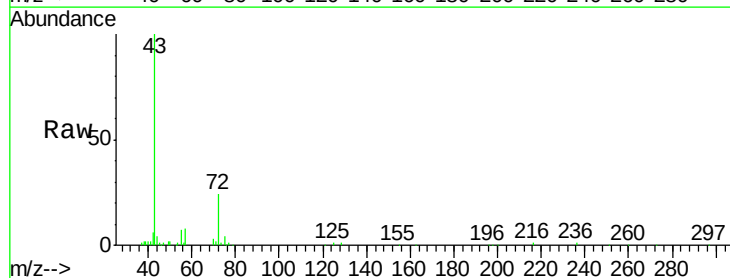
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId:
 SVE-INFLUENT
 Acq: 25 Oct 2021 19:17

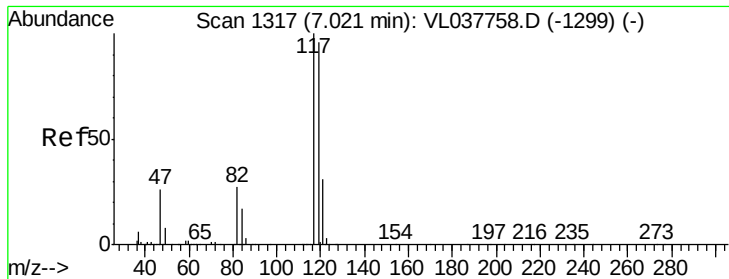
Tgt Ion: 114 Resp: 3940542
 Ion Ratio Lower Upper
 114 100
 63 23.8 19.4 29.2
 88 17.6 14.4 21.6



#34
 2-Butanone
 Concen: 0.528 ppbv
 RT: 5.27 min Scan# 772
 Delta R.T.: 0.02 min
 Lab File: VL037900.D
 Acq: 25 Oct 2021 19:17

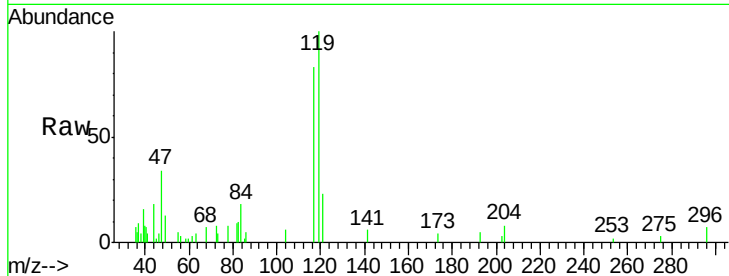
Tgt Ion: 43 Resp: 83979
 Ion Ratio Lower Upper
 43 100
 72 28.0 18.2 27.2#



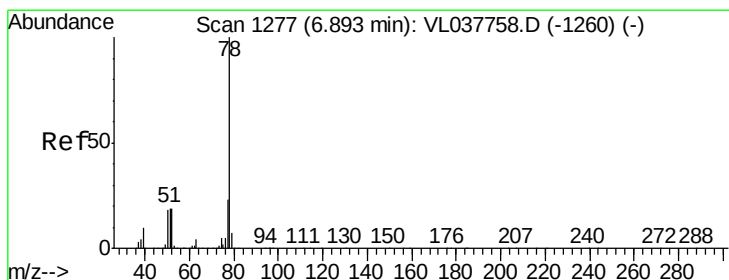
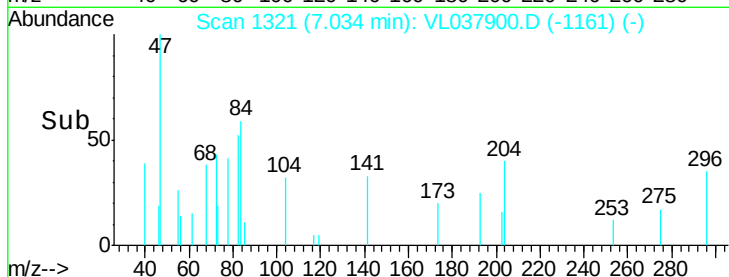
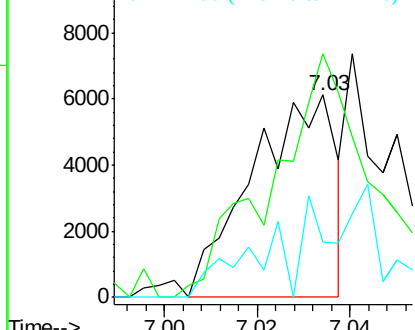


#35
Carbon Tetrachloride
Concen: 0.034 ppbv
RT: 7.03
Instrument: MSVOA_L
Delta R.T.:
ClientSampleId:
Lab File: SVE-INFLUENT
Acq: 25 Oct 2021 19:17

Tgt Ion: 117 Resp: 7663
Ion Ratio Lower Upper
117 100
119 114.2 76.5 114.7
121 27.6 24.9 37.3

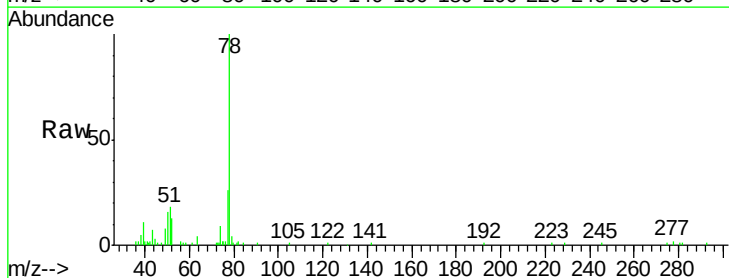


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V

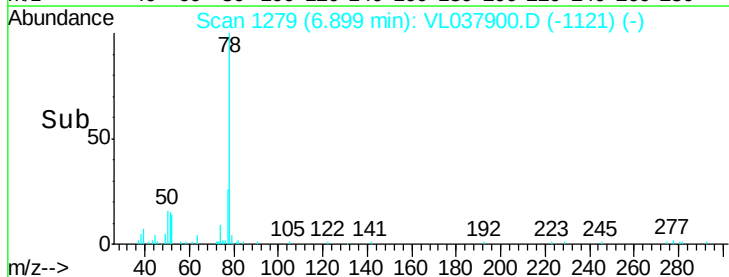
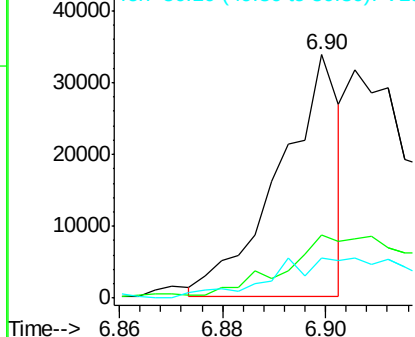


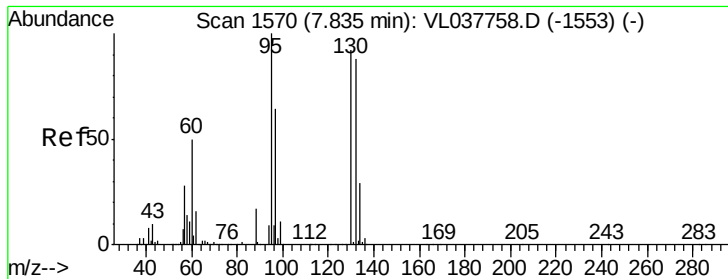
#36
Benzene
Concen: 0.081 ppbv
RT: 6.90 min Scan# 1279
Delta R.T. 0.01 min
Lab File: VL037900.D
Acq: 25 Oct 2021 19:17

Tgt Ion: 78 Resp: 27251
Ion Ratio Lower Upper
78 100
77 26.2 18.8 28.2
50 14.8 14.7 22.1



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0





#38

Trichloroethene

Concen: 0.792 ppbv

RT: 7.85 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 25 Oct 2021 19:17 SVE-INFLUENT

Tgt Ion: 130 Resp: 105324

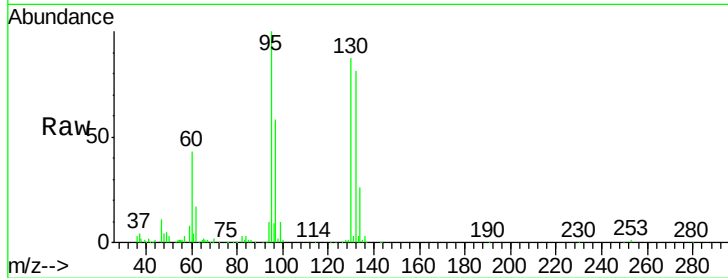
Ion Ratio Lower Upper

130 100

95 115.1 87.4 131.0

132 88.7 76.8 115.2

97 62.8 55.8 83.8

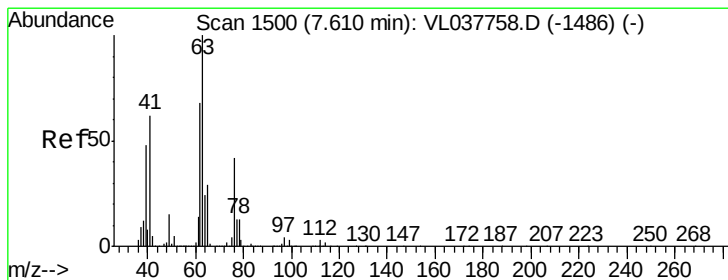
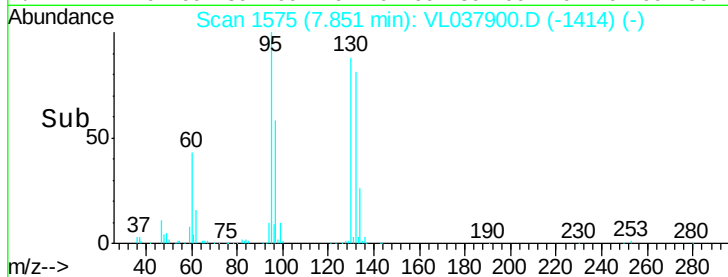
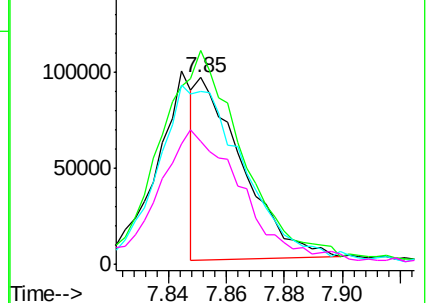


Abundance Ion 130.00 (129.70 to 130.70): V

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: 7.214 ppbv

RT: 7.19 min Scan# 1369

Delta R.T. -0.42 min

Lab File: VL037900.D

Acq: 25 Oct 2021 19:17

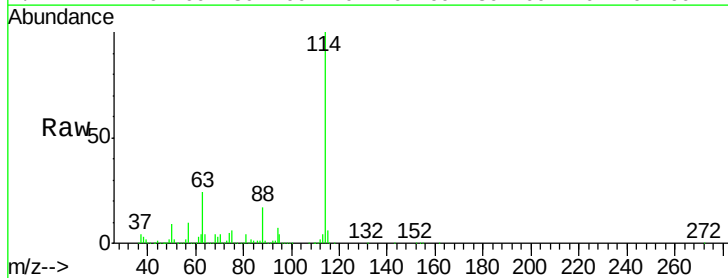
Tgt Ion: 63 Resp: 913325

Ion Ratio Lower Upper

63 100

41 0.0 49.8 74.6#

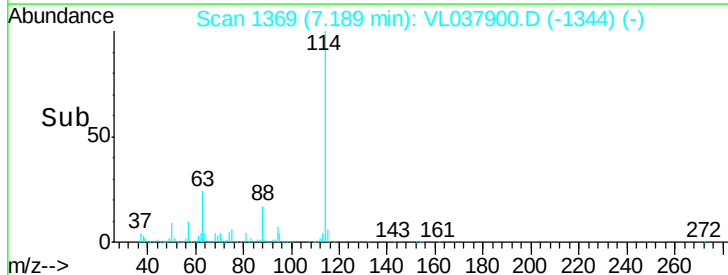
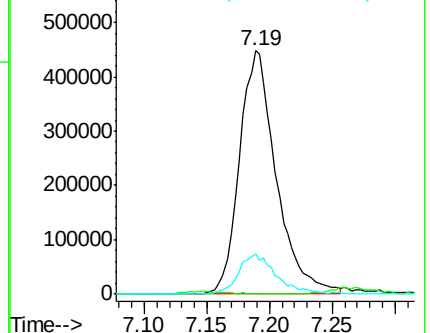
62 16.6 54.6 82.0#

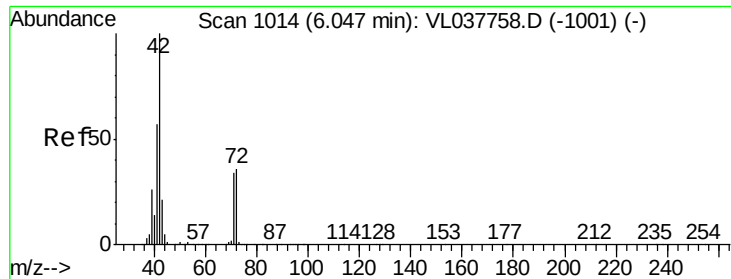


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

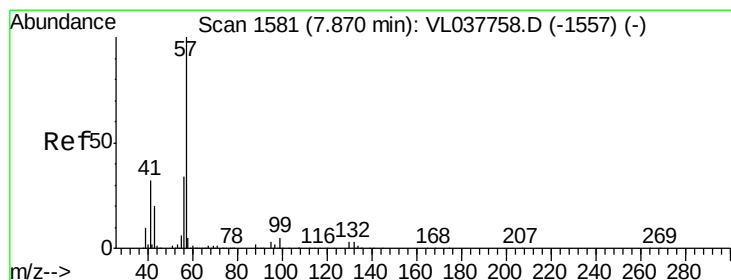
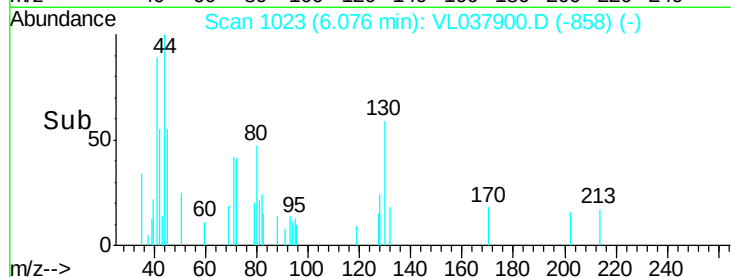
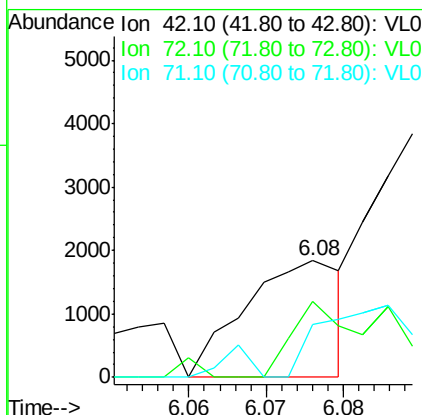
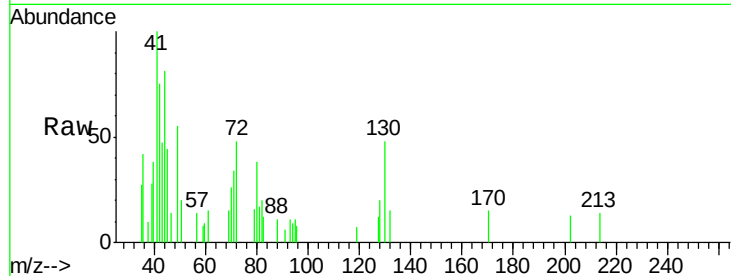
Ion 62.10 (61.80 to 62.80): VL0





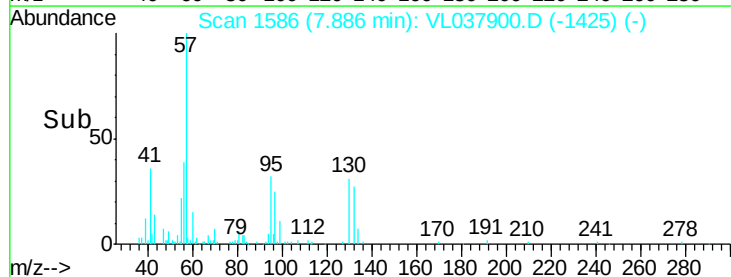
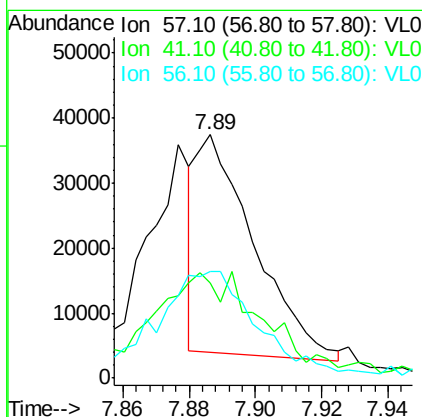
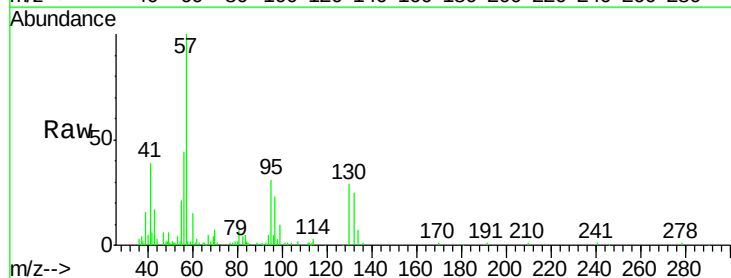
#41
Tetrahydrofuran
Concen: 0.021 ppbv
RT: 6.08
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 25 Oct 2021 19:17

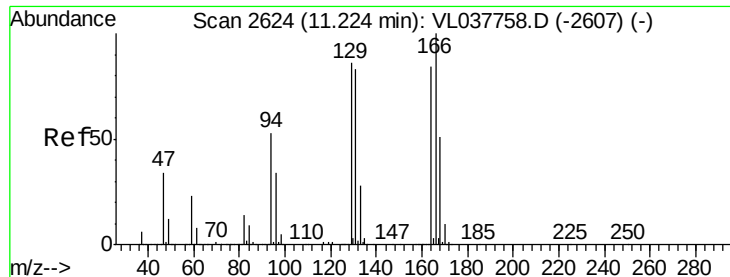
Tgt Ion: 42 Resp: 1604
Ion Ratio Lower Upper
42 100
72 141.8 31.9 47.9#
71 0.0 30.3 45.5#



#44
2,2,4-Trimethylpentane
Concen: 0.071 ppbv
RT: 7.89 min Scan# 1586
Delta R.T. 0.02 min
Lab File: VL037900.D
Acq: 25 Oct 2021 19:17

Tgt Ion: 57 Resp: 40295
Ion Ratio Lower Upper
57 100
41 108.3 25.6 38.4#
56 97.6 25.5 38.3#





#52

Tetrachloroethene

Concen: 12.389 ppbv

RT: 11.24

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 25 Oct 2021 19:17 SVE-INFLUENT

Tgt Ion:164 Resp: 1622363

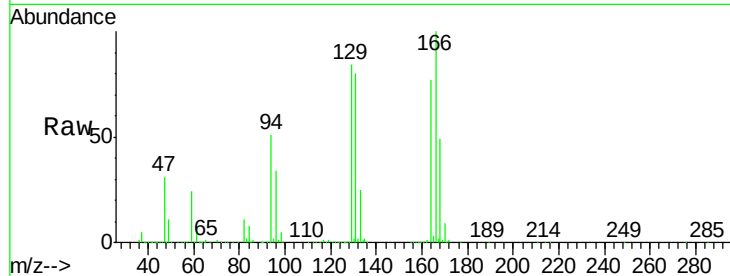
Ion Ratio Lower Upper

164 100

166 129.8 95.4 143.2

129 109.0 82.2 123.4

131 103.4 79.4 119.2

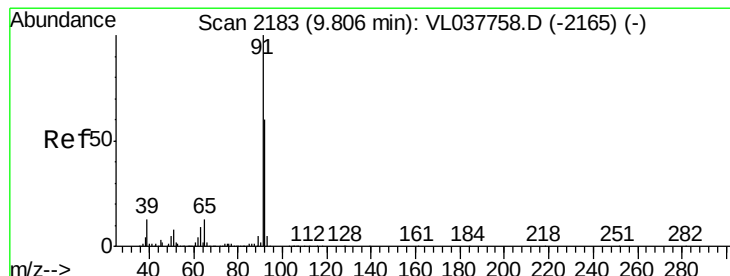
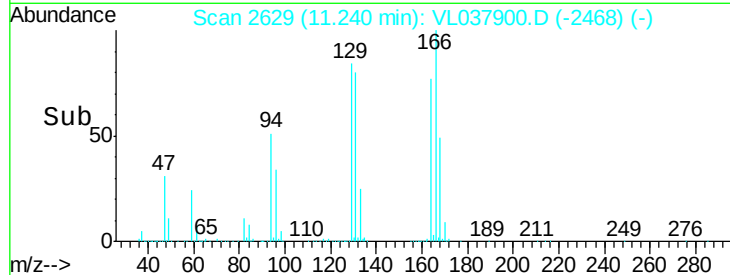
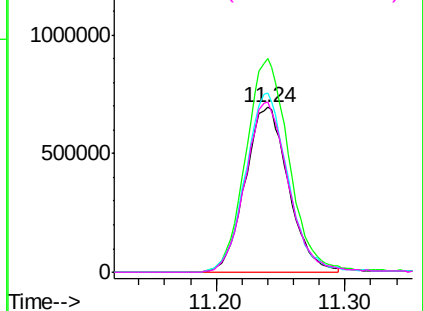


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 1.797 ppbv

RT: 9.82 min Scan# 2188

Delta R.T. 0.02 min

Lab File: VL037900.D

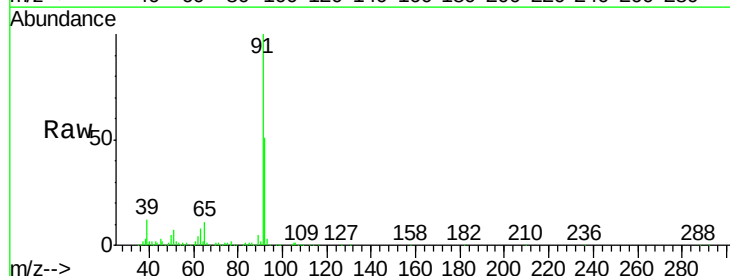
Acq: 25 Oct 2021 19:17

Tgt Ion: 91 Resp: 670388

Ion Ratio Lower Upper

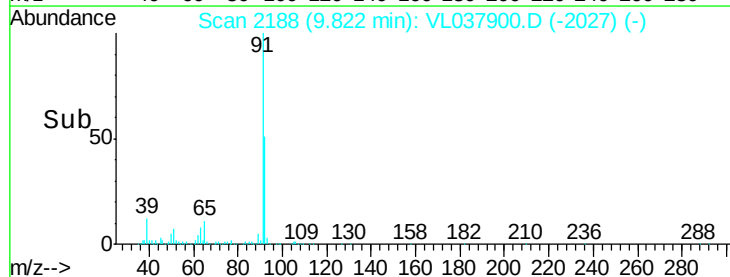
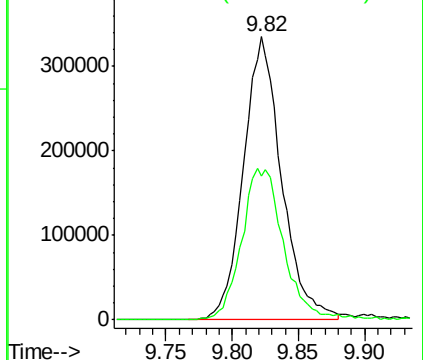
91 100

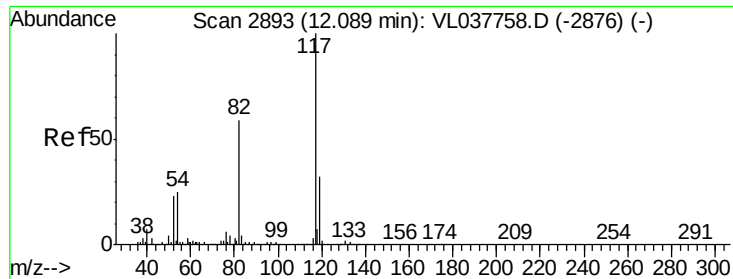
92 59.2 48.4 72.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

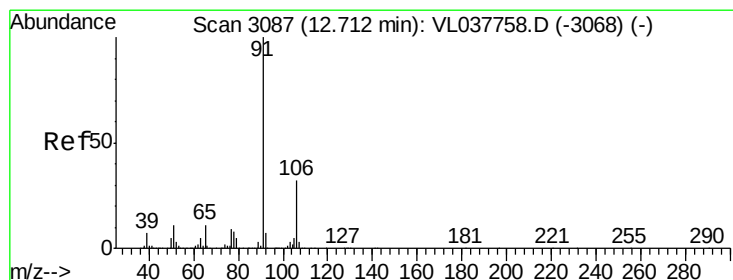
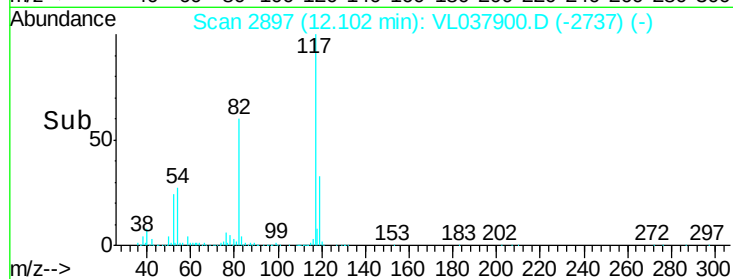
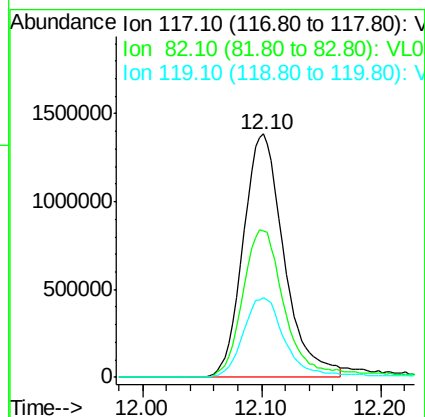
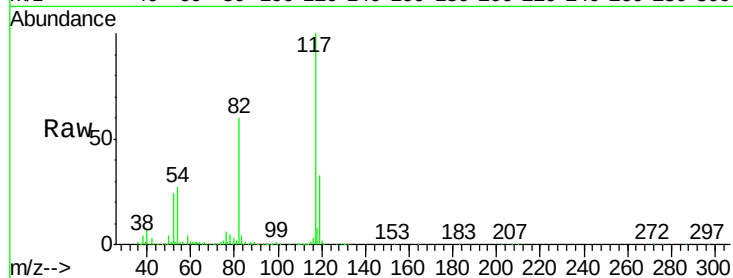
Ion 92.10 (91.80 to 92.80): VL0





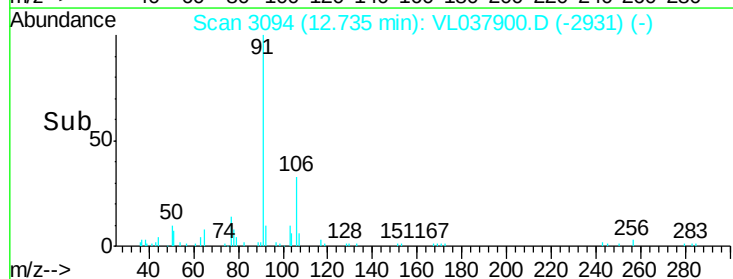
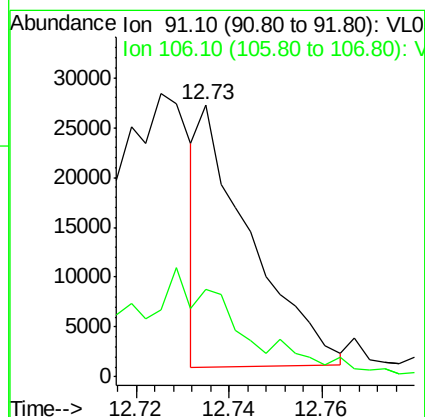
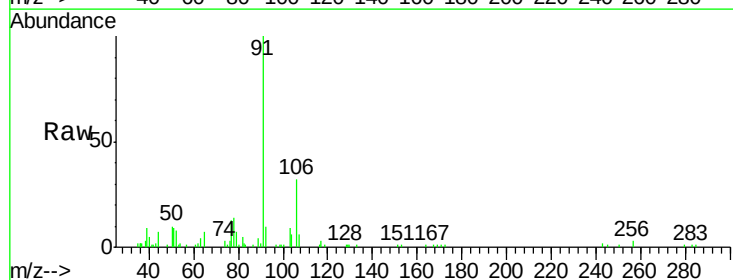
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
SVE-INFLUENT
Acq: 25 Oct 2021 19:17

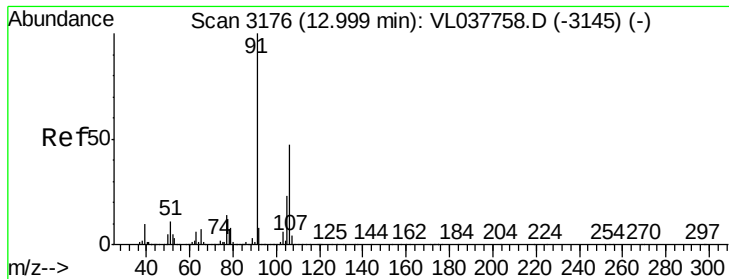
Tgt Ion: 117 Resp: 3298379
Ion Ratio Lower Upper
117 100
82 64.7 52.2 78.2
119 34.6 26.0 39.0



#58
Ethyl Benzene
Concen: 0.045 ppbv
RT: 12.73 min Scan# 3094
Delta R.T.: 0.02 min
Lab File: VL037900.D
Acq: 25 Oct 2021 19:17

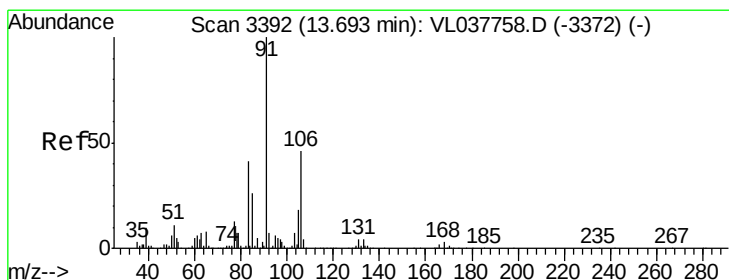
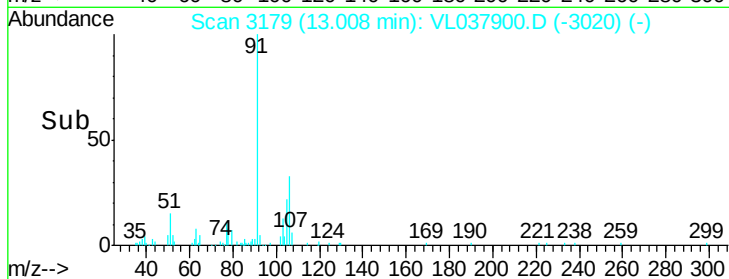
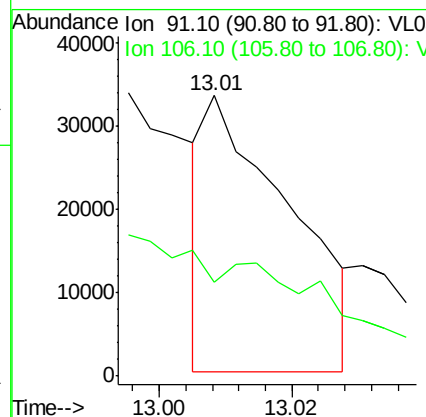
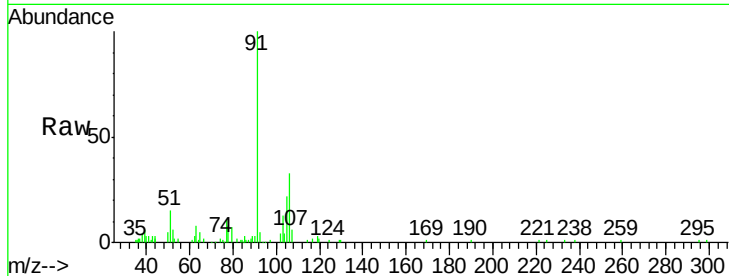
Tgt Ion: 91 Resp: 19934
Ion Ratio Lower Upper
91 100
106 27.3 25.3 37.9





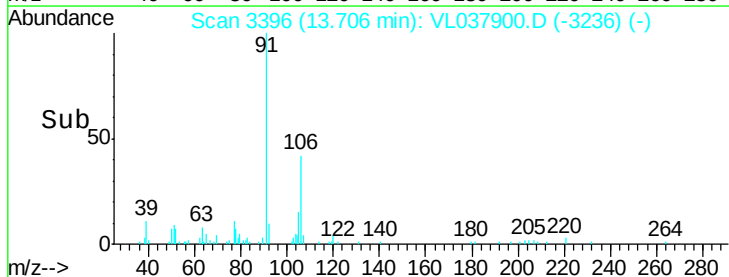
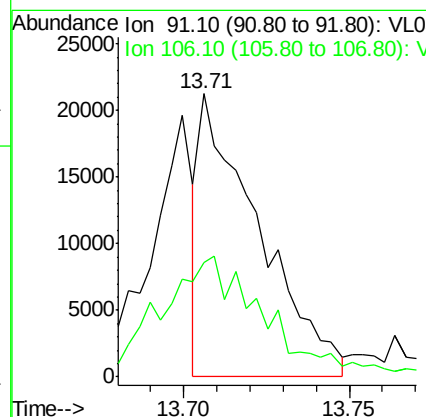
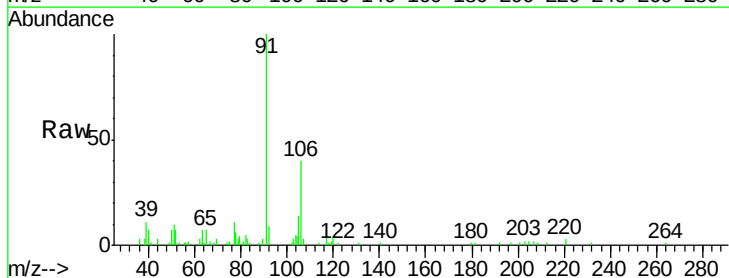
#59
m/p-Xylene
Concen: 0.077 ppbv
RT: 13.01 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 25 Oct 2021 19:17

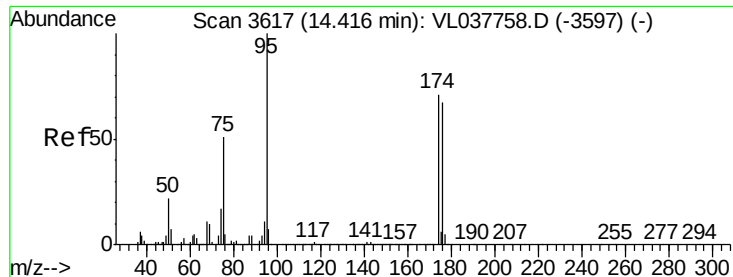
Tgt Ion: 91 Resp: 29433
Ion Ratio Lower Upper
91 100
106 0.0 36.7 55.1#



#60
o-Xylene
Concen: 0.072 ppbv
RT: 13.71 min Scan# 3396
Delta R.T. 0.01 min
Lab File: VL037900.D
Acq: 25 Oct 2021 19:17

Tgt Ion: 91 Resp: 26242
Ion Ratio Lower Upper
91 100
106 78.1 23.5 70.5#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.362 ppbv

RT: 14.43

Delta R.T: MSVOA_L

Lab File: ClientSampleId :

Acq: 25 Oct 2021 19:17

Tgt Ion: 95 Resp: 2390111

Ion Ratio Lower Upper

95 100

174 72.2 57.8 86.6

175 5.4 4.7 7.1

