

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL083122\
 Data File : VL039608.D
 Acq On : 31 Aug 2022 14:45
 Operator : SY/AP
 Sample : N4408-02
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 SVE-EFF-082222

Quant Time: Aug 31 23:45:15 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081722AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Aug 26 06:05:16 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.22	49	942248	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	6.67	114	2366194	10.00	ppbv	0.01
55) Chlorobenzene-d5	11.48	117	2027880	10.00	ppbv	0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.79	95	1485583	9.71	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.10%

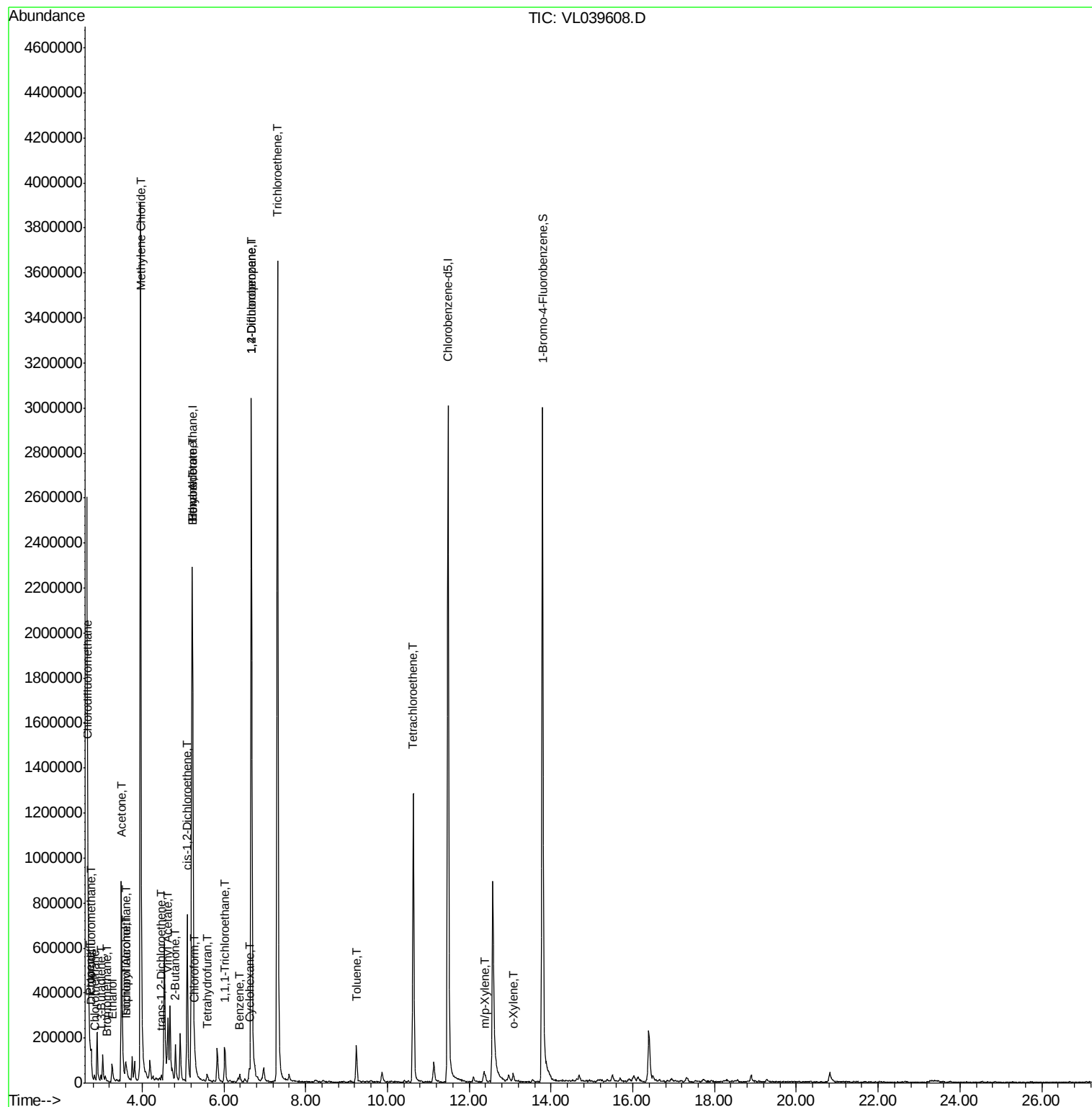
Target Compounds					Ovalue
2) Dichlorodifluoromethane	2.75	85	59102	0.471 ppbv	96
3) Chlorodifluoromethane	2.68	51	95218	0.848 ppbv #	72
4) Chloromethane	2.84	50	13353	0.197 ppbv	91
6) Bromomethane	3.15	94	1178	0.051 ppbv	93
9) Propene	2.73	41	23042	0.449 ppbv #	71
11) Trichlorofluoromethane	3.59	101	40802	0.296 ppbv	96
13) Ethanol	3.27	45	82338	22.304 ppbv	71
15) Acetone	3.49	43	972018	9.209 ppbv	96
16) 1,3-Butadiene	2.99	39	5766	0.105 ppbv #	15
19) Isopropyl Alcohol	3.62	45	51546	1.004 ppbv #	88
20) Methylene Chloride	3.96	84	1427793	33.297 ppbv	97
22) trans-1,2-Dichloroethene	4.47	96	3113	0.068 ppbv #	82
23) Vinyl Acetate	4.64	43	138503	2.760 ppbv #	7
25) Ethyl Acetate	5.24	43	486351	2.154 ppbv #	74
26) Hexane	5.24	57	656640	7.124 ppbv #	40
29) Chloroform	5.29	83	19491	0.135 ppbv #	68
30) Cyclohexane	6.62	84	7411	0.097 ppbv #	1
31) cis-1,2-Dichloroethene	5.10	61	418241	4.685 ppbv	99
32) 1,1,1-Trichloroethane	6.02	97	54965	0.433 ppbv #	44
34) 2-Butanone	4.82	43	168945	1.436 ppbv	97
36) Benzene	6.39	78	11880	0.066 ppbv #	83
38) Trichloroethene	7.31	130	1219684	12.621 ppbv	98
39) 1,2-Dichloropropane	6.67	63	574379	8.470 ppbv #	24
41) Tetrahydrofuran	5.59	42	3730	0.053 ppbv #	1
52) Tetrachloroethene	10.64	164	333697	4.890 ppbv	88
53) Toluene	9.24	91	119381	0.591 ppbv	98
59) m/p-Xylene	12.38	91	19826	0.095 ppbv #	1
60) o-Xylene	13.07	91	17442	0.087 ppbv	80

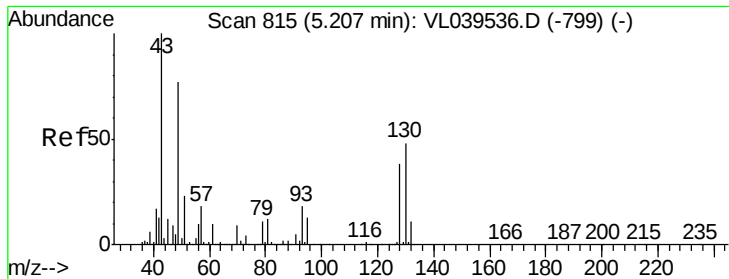
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.22 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 31 Aug 2022 SVE-EFF-082222

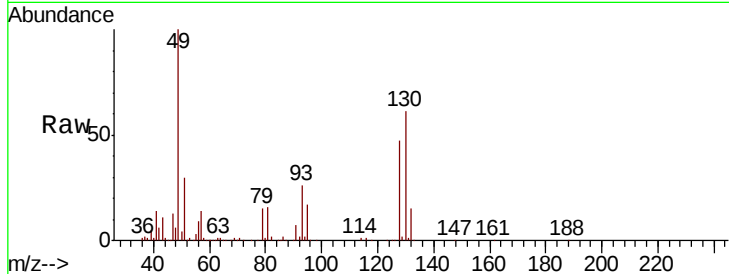
Tot Ion: 49 Resp: 942248

Ion Ratio Lower Upper

49 100

128 50.2 26.7 80.0

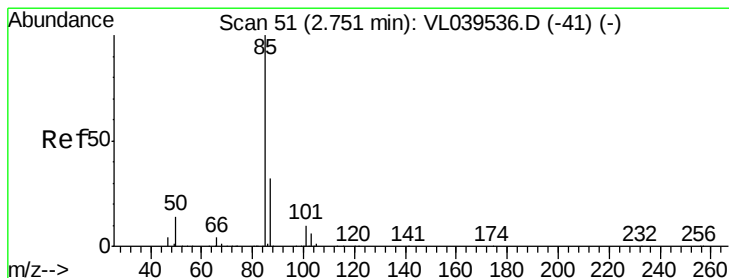
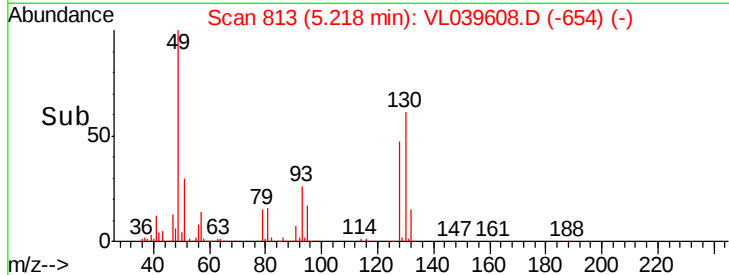
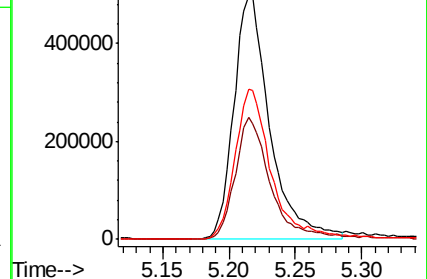
130 63.0 34.3 102.8



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.471 ppbv

RT: 2.75 min Scan# 47

Delta R.T. 0.00 min

Lab File: VL039608.D

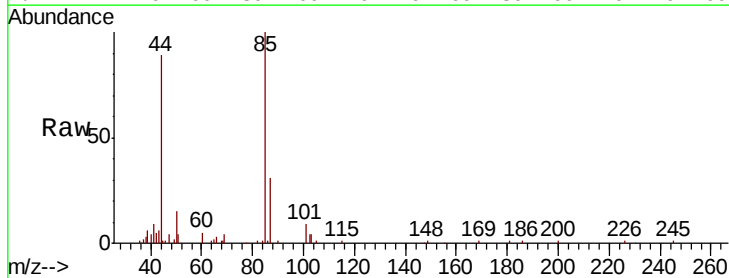
Acq: 31 Aug 2022 14:45

Tgt Ion: 85 Resp: 59102

Ion Ratio Lower Upper

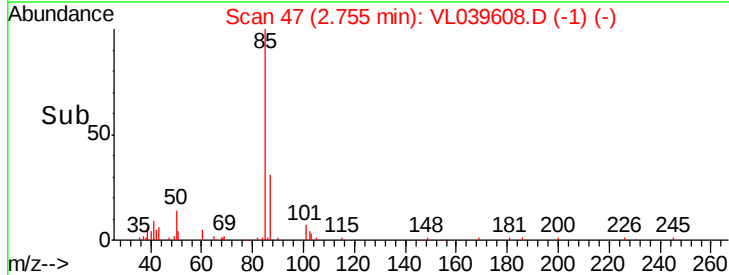
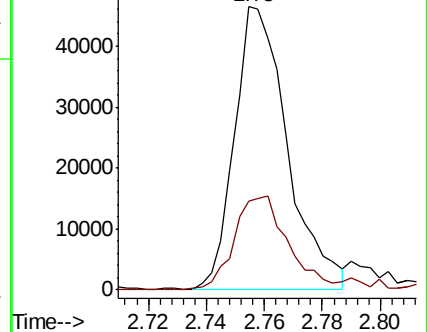
85 100

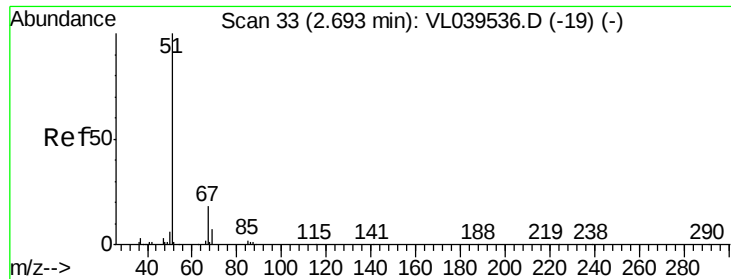
87 30.8 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.848 ppbv

RT: 2.68 Instrument:

Delta R.T. MSVOA.L

Lab File: ClientSampleId:

SVE-EFF-082222

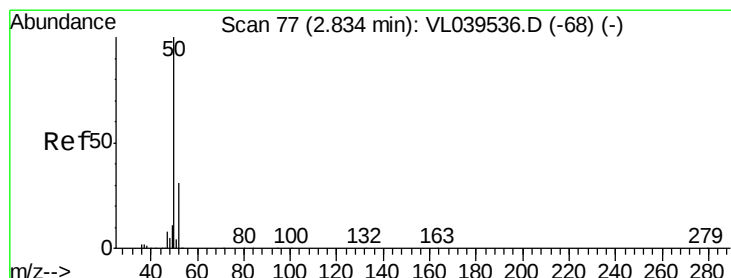
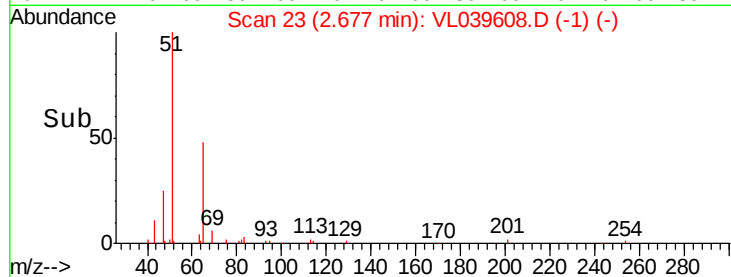
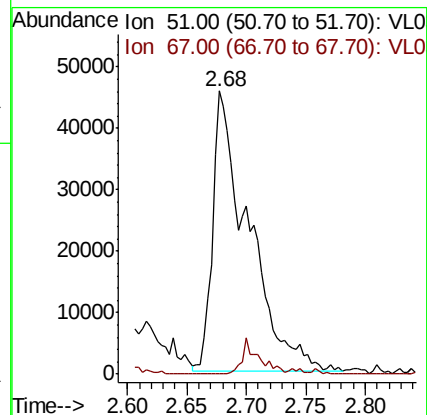
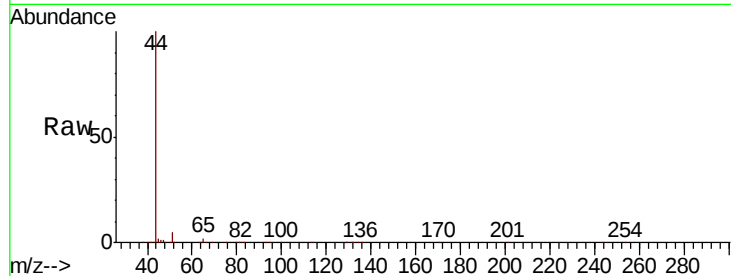
Acq: 31 Aug 2022 14:45

Tot Ion: 51 Resp: 95218

Ion Ratio Lower Upper

51 100

67 6.9 15.7 23.5#



#4

Chloromethane

Concen: 0.197 ppbv

RT: 2.84 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL039608.D

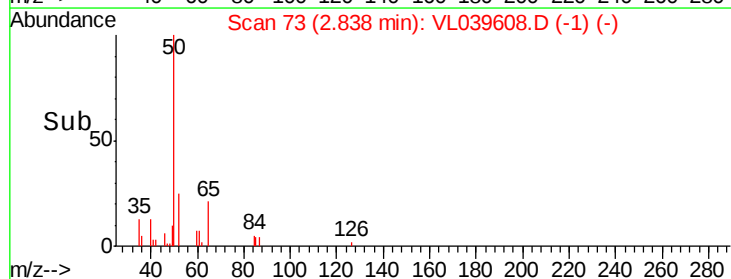
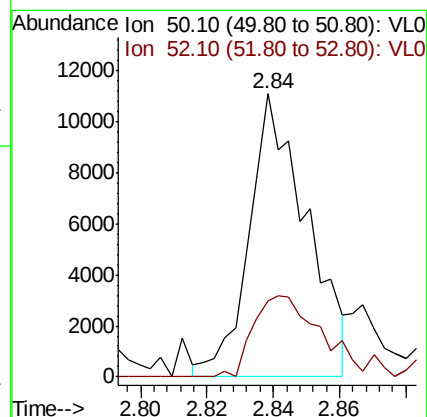
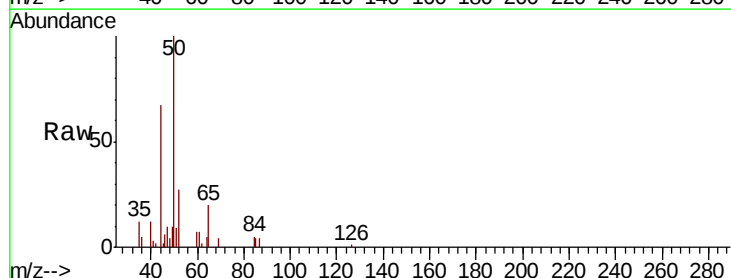
Acq: 31 Aug 2022 14:45

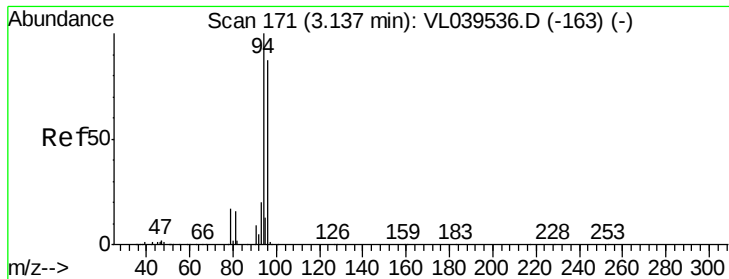
Tgt Ion: 50 Resp: 13353

Ion Ratio Lower Upper

50 100

52 27.9 26.5 39.7





#6

Bromomethane

Concen: 0.051 ppbv

RT: 3.15 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

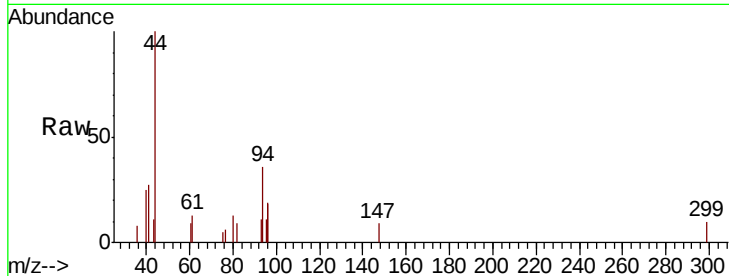
Acq: 31 Aug 2022 14:45

Tot Ion: 94 Resp: 1178

Ion Ratio Lower Upper

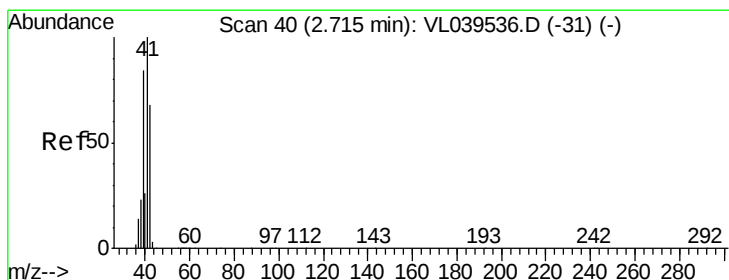
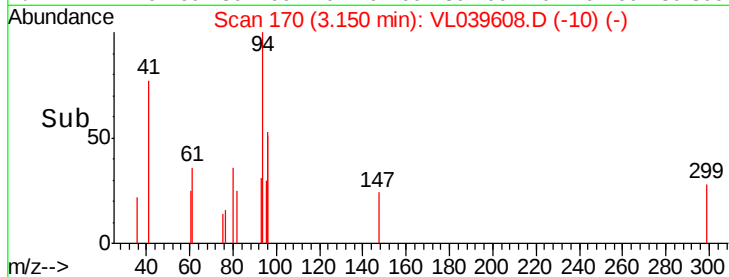
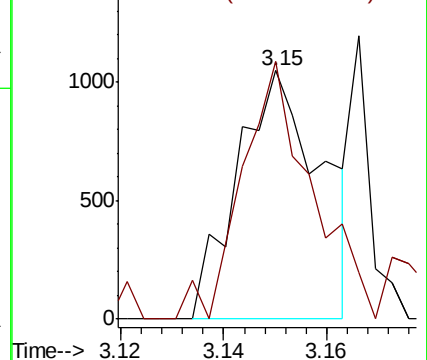
94 100

96 88.0 75.6 113.4



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0



#9

Propene

Concen: 0.449 ppbv

RT: 2.73 min Scan# 40

Delta R.T. 0.02 min

Lab File: VL039608.D

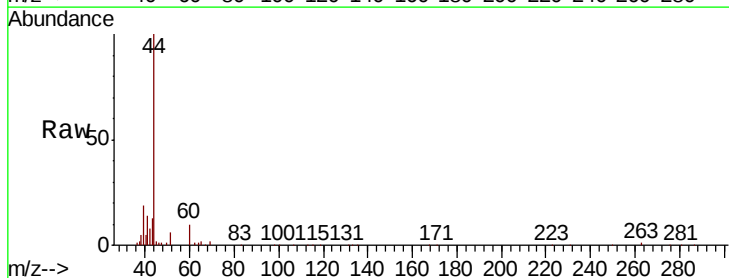
Acq: 31 Aug 2022 14:45

Tgt Ion: 41 Resp: 23042

Ion Ratio Lower Upper

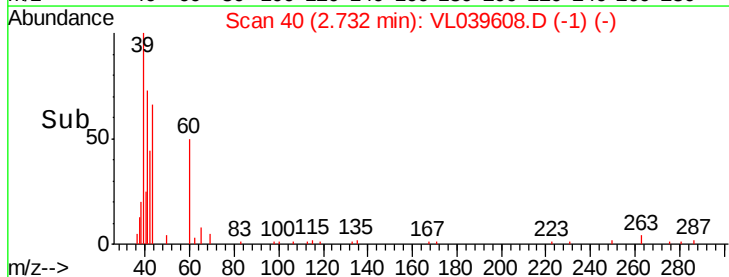
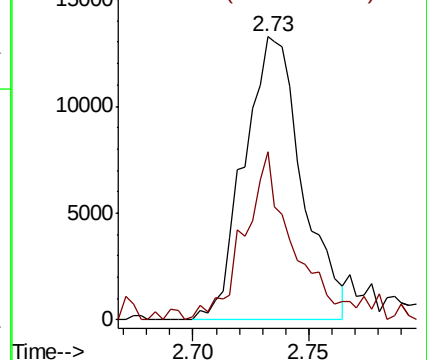
41 100

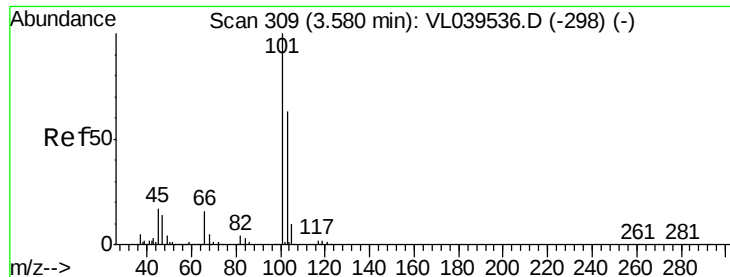
42 45.0 55.2 82.8#



Abundance Ion 41.10 (40.80 to 41.80): VL0

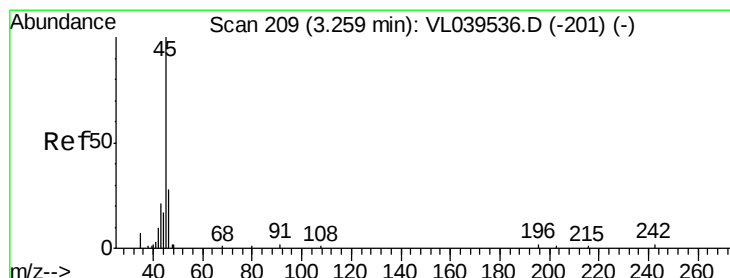
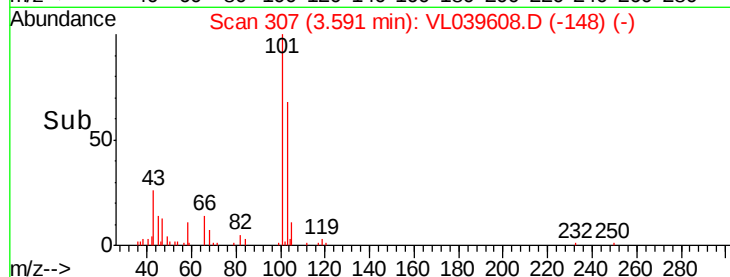
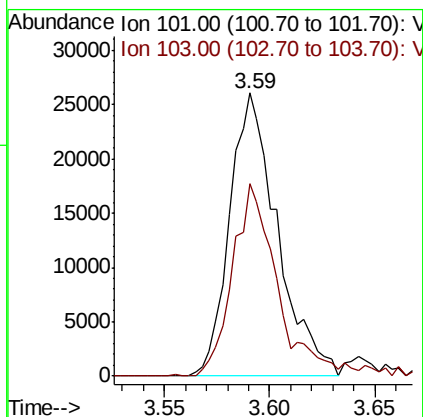
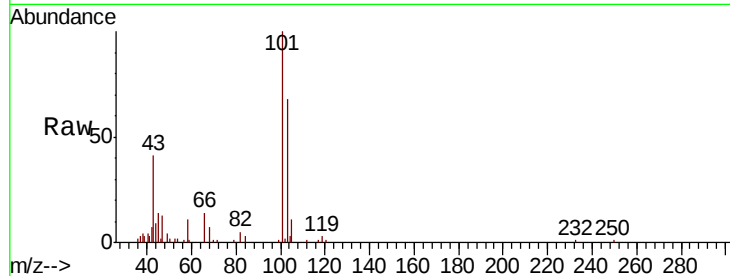
Ion 42.10 (41.80 to 42.80): VL0





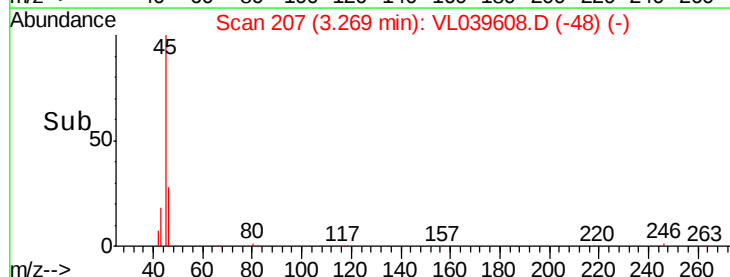
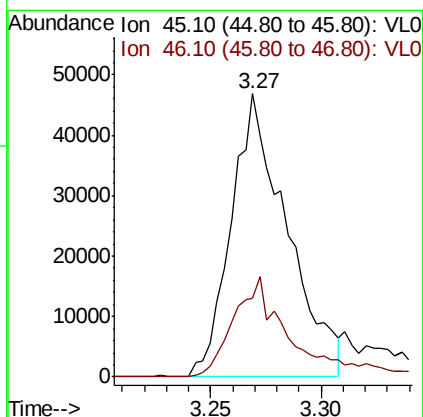
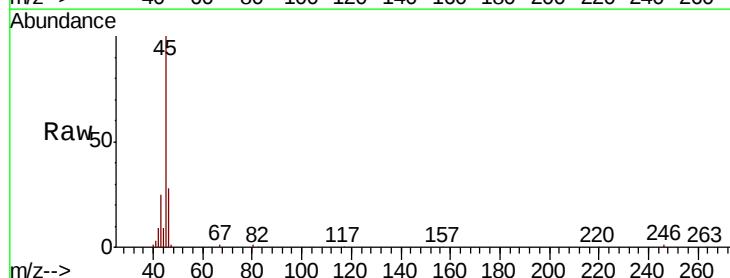
#11
 Trichlorofluoromethane
 Concen: 0.296 ppbv
 RT: 3.59
 Instrument: MSVOA_1
 Delta R.T.:
 ClientSampleId:
 Lab File: SVE-EFF-082222
 Acq: 31 Aug 2022 14:45

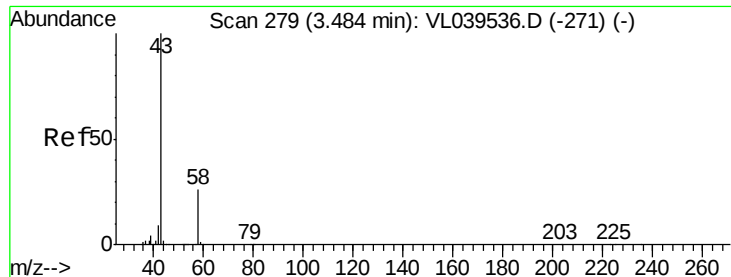
Tot Ion: 101 Resp: 40802
 Ion Ratio Lower Upper
 101 100
 103 68.2 51.8 77.8



#13
 Ethanol
 Concen: 22.304 ppbv
 RT: 3.27 min Scan# 207
 Delta R.T. 0.01 min
 Lab File: VL039608.D
 Acq: 31 Aug 2022 14:45

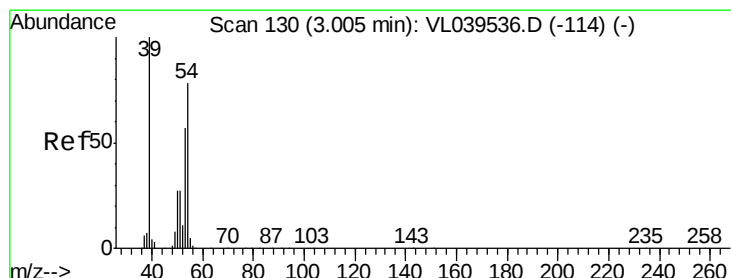
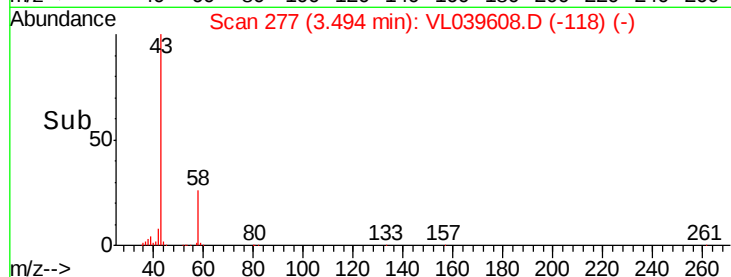
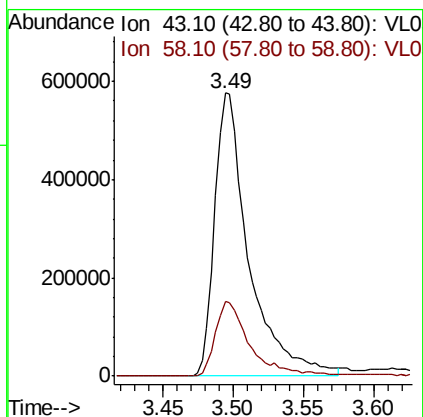
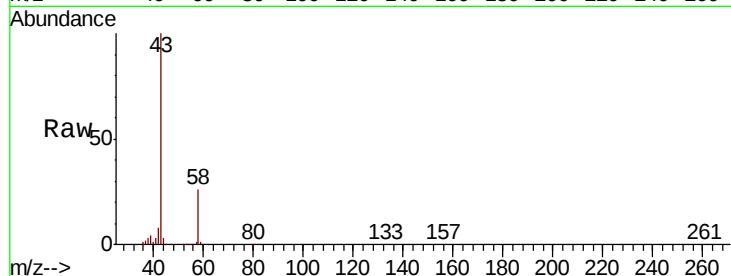
Tgt Ion: 45 Resp: 82338
 Ion Ratio Lower Upper
 45 100
 46 35.9 22.8 91.2





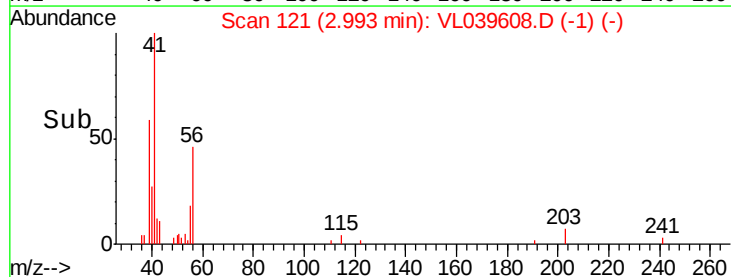
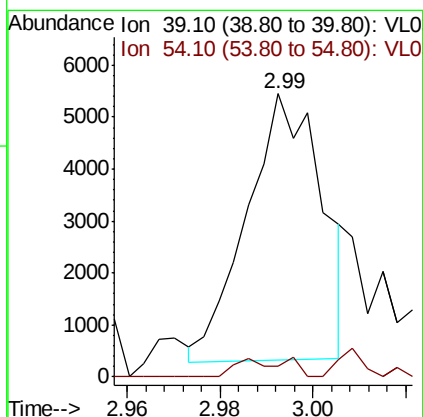
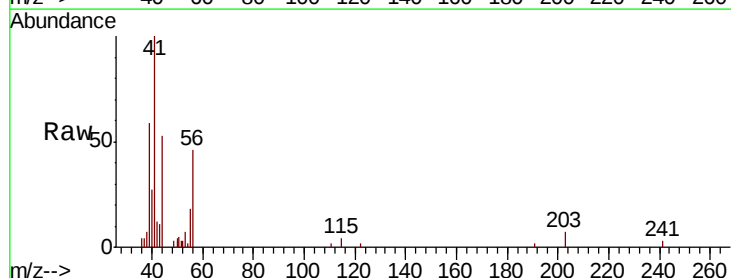
#15
Acetone
Concen: 9.209 ppbv
RT: 3.49
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SVE-EFF-082222
Acq: 31 Aug 2022 14:45

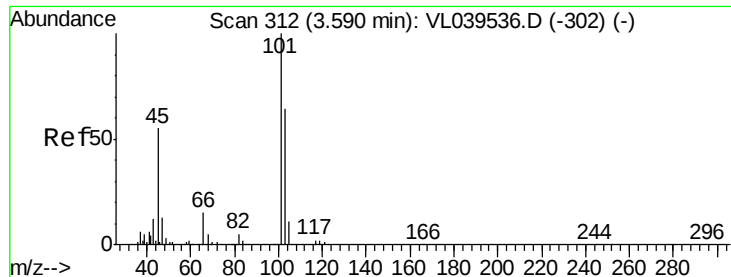
Tot Ion: 43 Resp: 972018
Ion Ratio Lower Upper
43 100
58 28.2 21.0 31.6



#16
1,3-Butadiene
Concen: 0.105 ppbv
RT: 2.99 min Scan# 121
Delta R.T. -0.01 min
Lab File: VL039608.D
Acq: 31 Aug 2022 14:45

Tgt Ion: 39 Resp: 5766
Ion Ratio Lower Upper
39 100
54 4.6 63.7 95.5#





#19

Isopropyl Alcohol

Concen: 1.004 ppbv

RT: 3.62 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

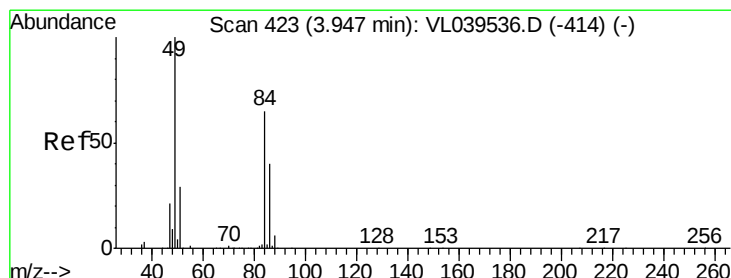
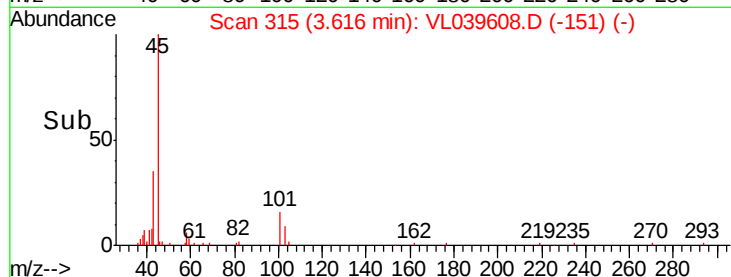
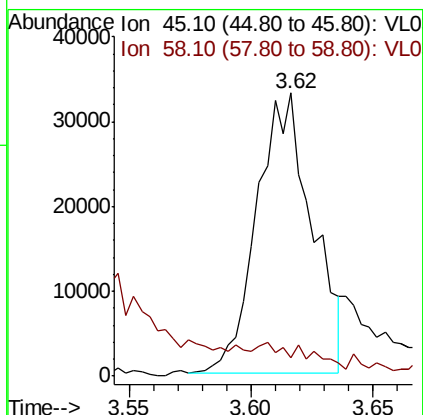
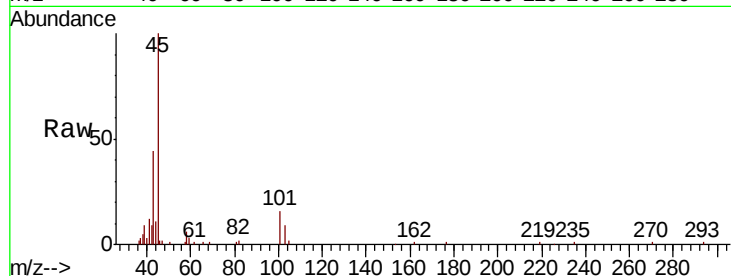
Acq: 31 Aug 2022 14:45 SVE-EFF-082222

Tot Ion: 45 Resp: 51546

Ion Ratio Lower Upper

45 100

58 0.0 3.2 4.8#



#20

Methylene Chloride

Concen: 33.297 ppbv

RT: 3.96 min Scan# 422

Delta R.T. 0.01 min

Lab File: VL039608.D

Acq: 31 Aug 2022 14:45

Tgt Ion: 84 Resp: 1427793

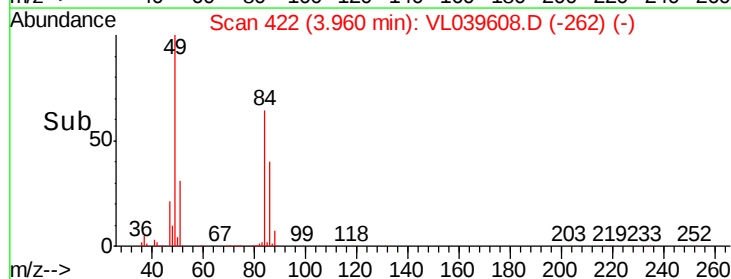
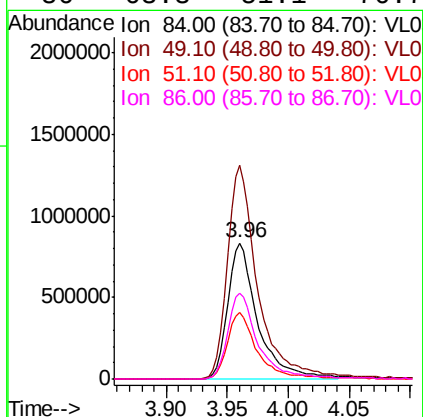
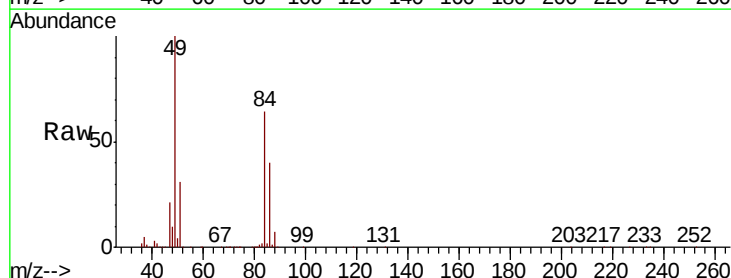
Ion Ratio Lower Upper

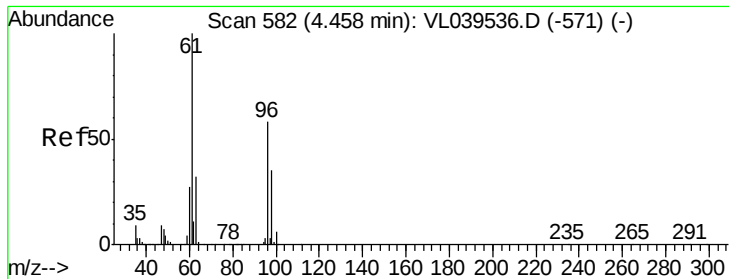
84 100

49 157.4 123.1 184.7

51 48.6 34.4 51.6

86 63.3 51.1 76.7





#22

trans-1,2-Dichloroethene

Concen: 0.068 ppbv

RT: 4.47 Instrument:

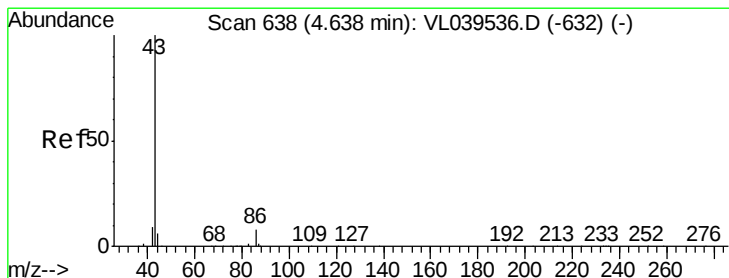
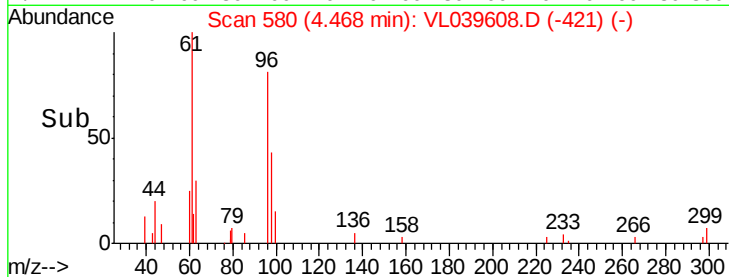
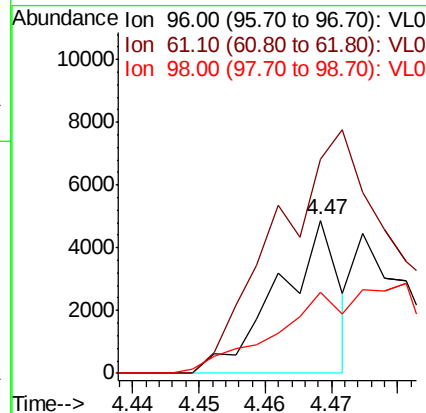
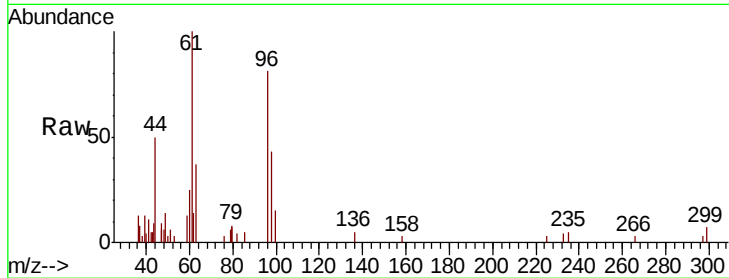
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 31 Aug 2022 14:45 SVE-EFF-082222

Tot Ion: 96 Resp: 3113

Ion	Ratio	Lower	Upper
96	100		
61	140.0	130.6	195.8
98	50.0	53.4	80.0#



#23

Vinyl Acetate

Concen: 2.760 ppbv

RT: 4.64 min Scan# 632

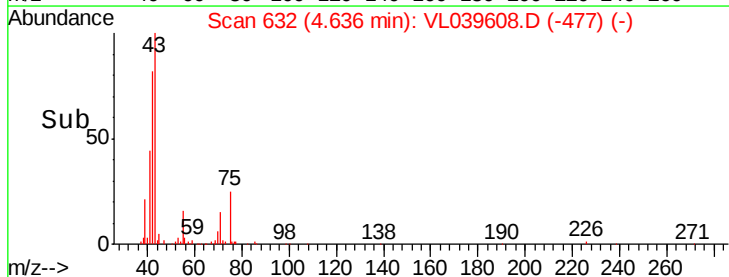
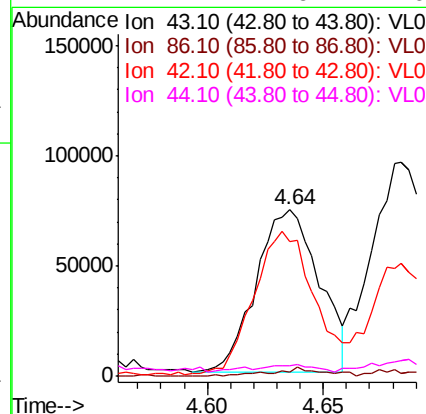
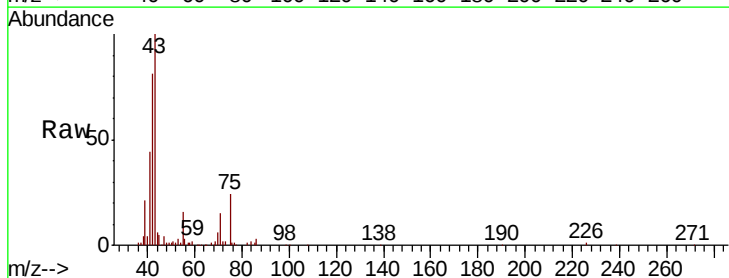
Delta R.T. -0.00 min

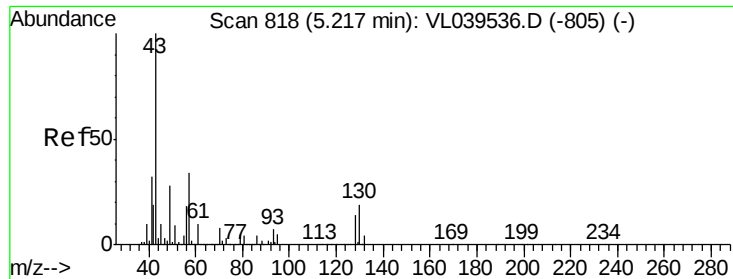
Lab File: VL039608.D

Acq: 31 Aug 2022 14:45

Tgt Ion: 43 Resp: 138503

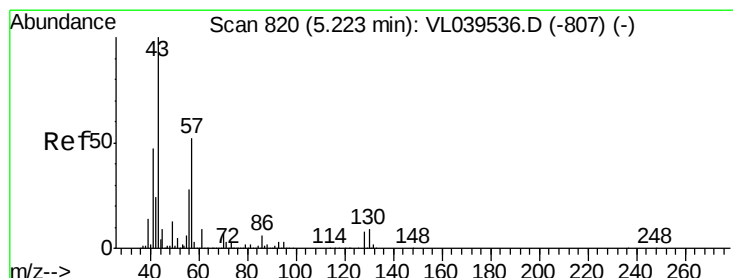
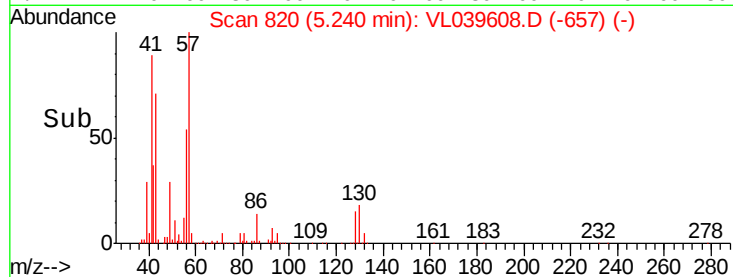
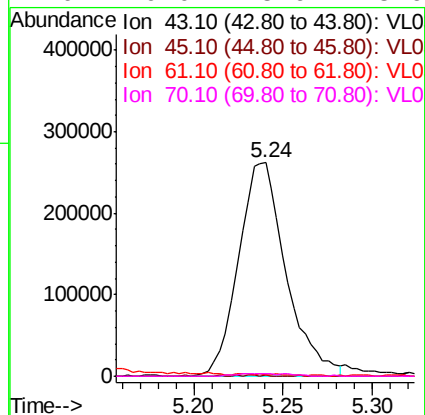
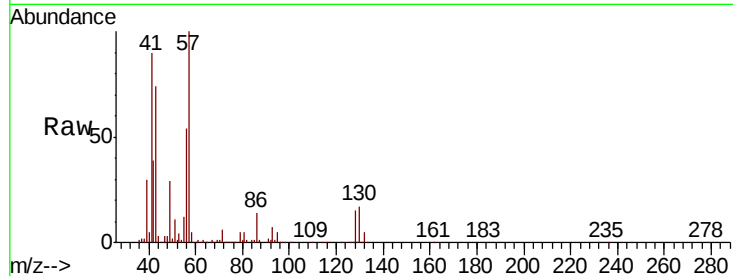
Ion	Ratio	Lower	Upper
43	100		
86	2.4	5.0	7.6#
42	81.6	7.7	11.5#
44	2.1	4.6	7.0#





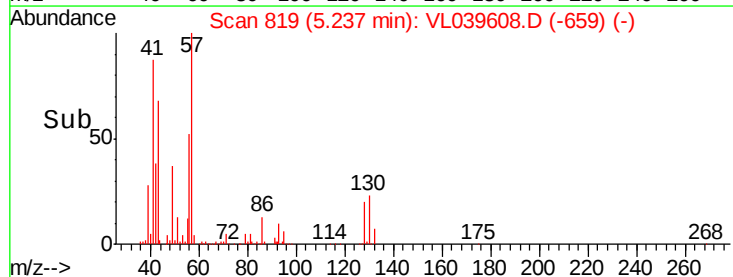
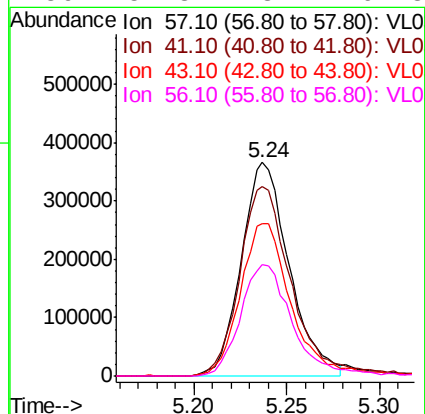
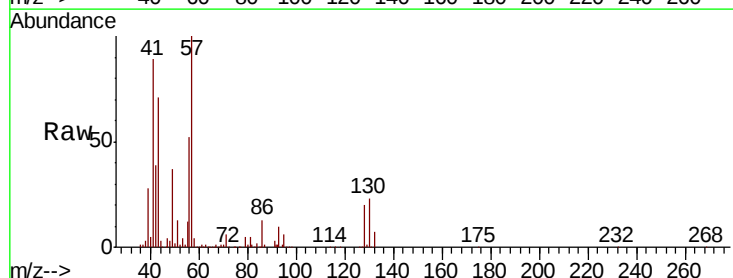
#25
Ethyl Acetate
Concen: 2.154 ppbv
RT: 5.24 min
Instrument: MSVOA_1
Delta R.T.: 0.01 min
Lab File: VL039608.D
Client Sample ID: SVE-EFF-082222
Acq: 31 Aug 2022 14:45

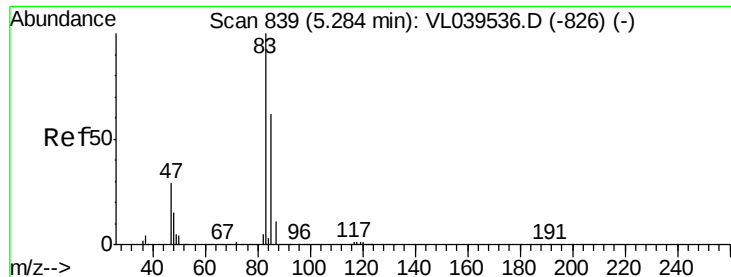
Tot Ion:	43	Resp:	486351
Ion	Ratio	Lower	Upper
43	100		
45	0.3	8.2	12.4#
61	0.0	8.3	12.5#
70	0.0	5.9	8.9#



#26
Hexane
Concen: 7.124 ppbv
RT: 5.24 min Scan# 819
Delta R.T.: 0.01 min
Lab File: VL039608.D
Acq: 31 Aug 2022 14:45

Tgt Ion:	57	Resp:	656640
Ion	Ratio	Lower	Upper
57	100		
41	96.8	76.9	115.3
43	76.8	191.0	286.6#
56	57.3	43.2	64.8





#29

Chloroform

Concen: 0.135 ppbv

RT: 5.29 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

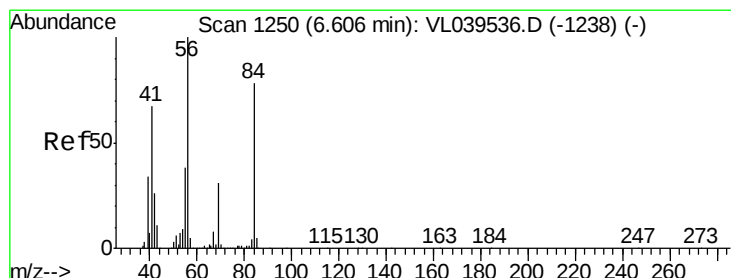
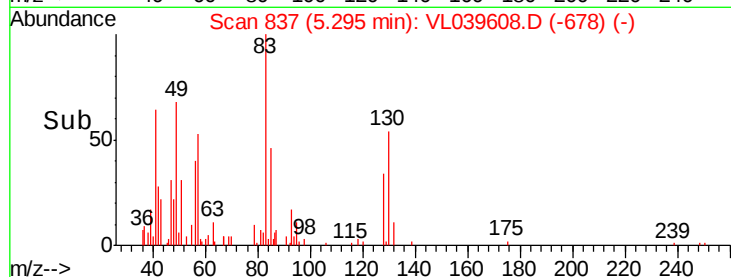
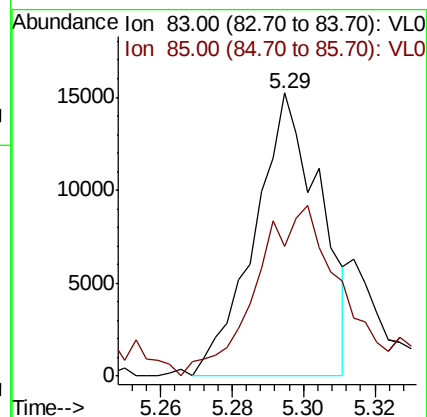
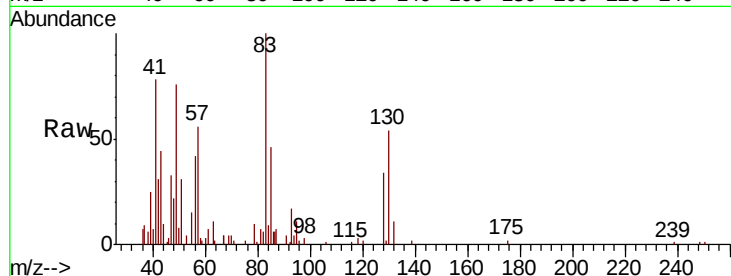
Acq: 31 Aug 2022 14:45

Tot Ion: 83 Resp: 19491

Ion Ratio Lower Upper

83 100

85 40.8 52.8 79.2#



#30

Cyclohexane

Concen: 0.097 ppbv

RT: 6.62 min Scan# 1250

Delta R.T. 0.02 min

Lab File: VL039608.D

Acq: 31 Aug 2022 14:45

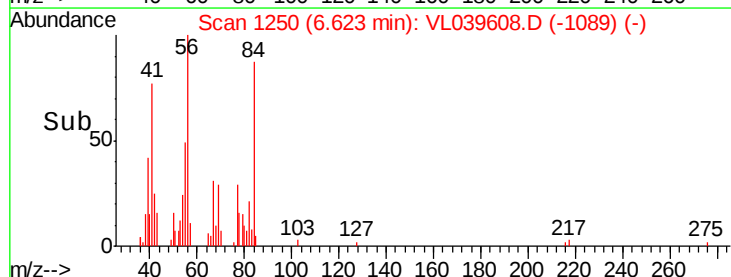
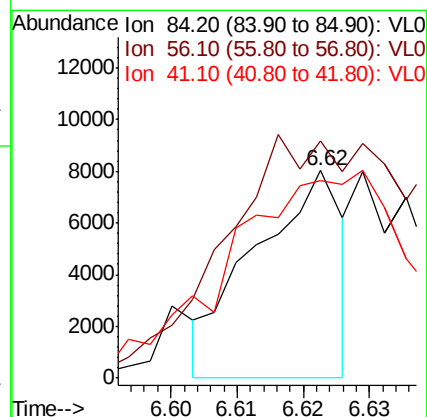
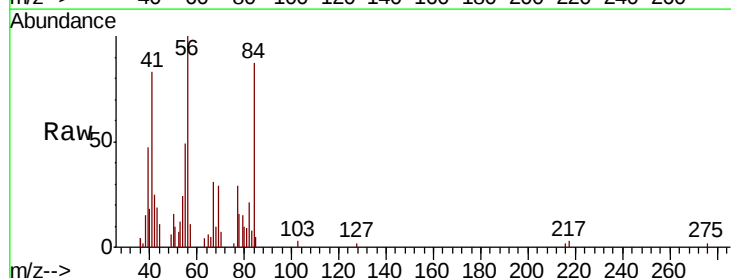
Tgt Ion: 84 Resp: 7411

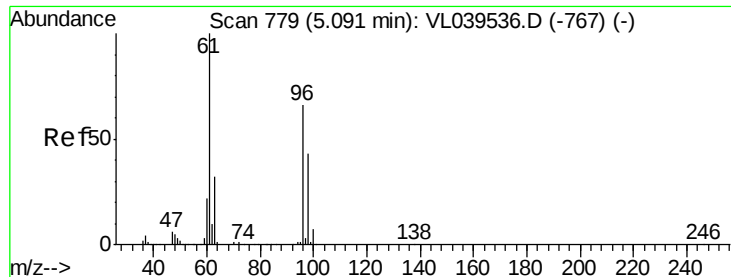
Ion Ratio Lower Upper

84 100

56 0.0 107.7 161.5#

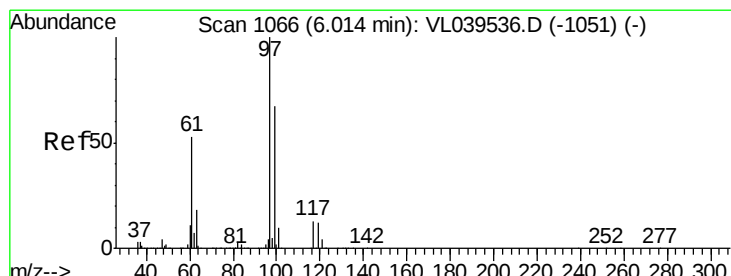
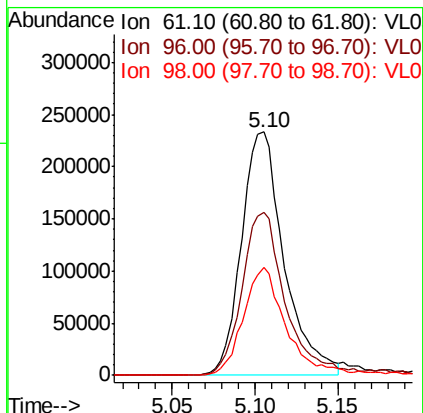
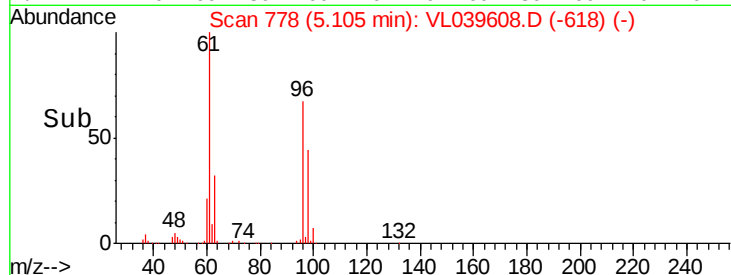
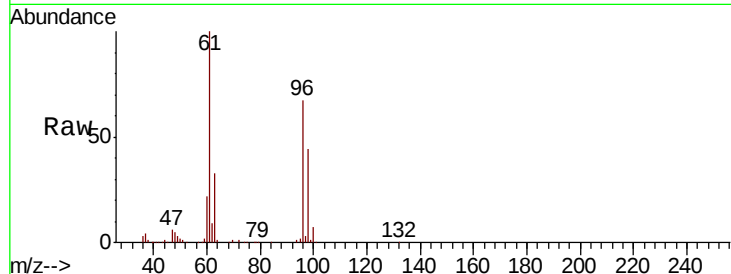
41 0.0 67.7 101.5#





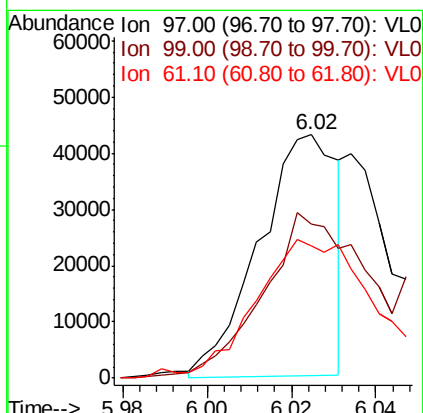
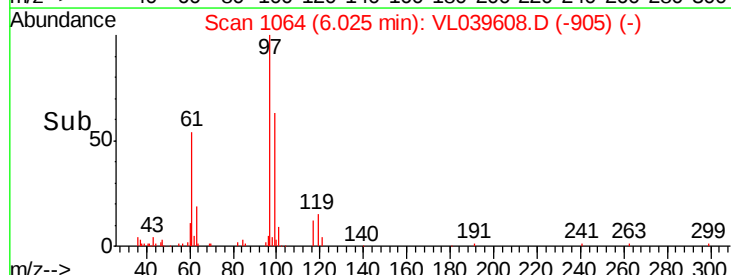
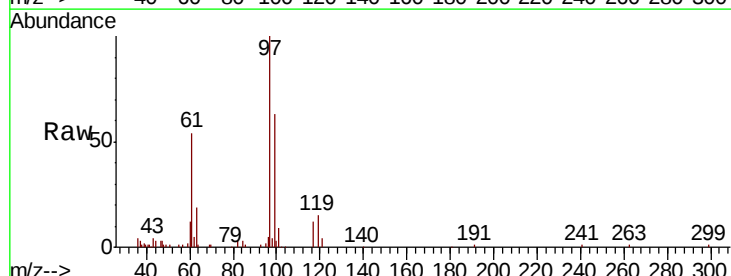
#31
 cis-1,2-Dichloroethene
 Concen: 4.685 ppbv
 RT: 5.10
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SVE-EFF-082222
 Acq: 31 Aug 2022 14:45

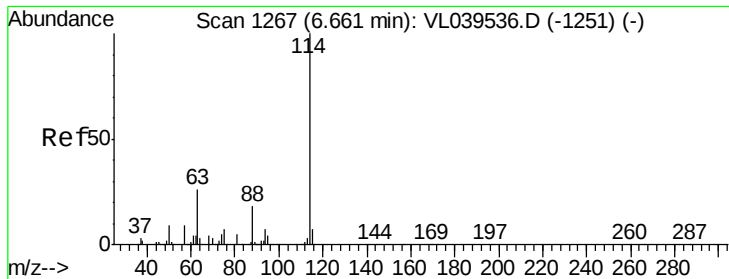
Tot Ion	Ratio	Lower	Upper
61	100		
96	66.7	54.1	81.1
98	44.1	34.6	52.0



#32
 1,1,1-Trichloroethane
 Concen: 0.433 ppbv
 RT: 6.02 min Scan# 1064
 Delta R.T. 0.01 min
 Lab File: VL039608.D
 Acq: 31 Aug 2022 14:45

Tgt Ion	Ratio	Lower	Upper
97	100		
99	106.6	52.3	78.5#
61	94.4	40.9	61.3#

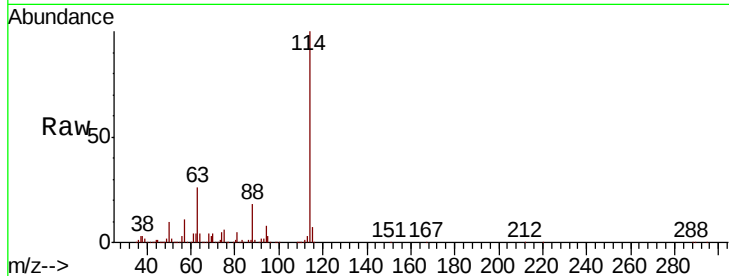




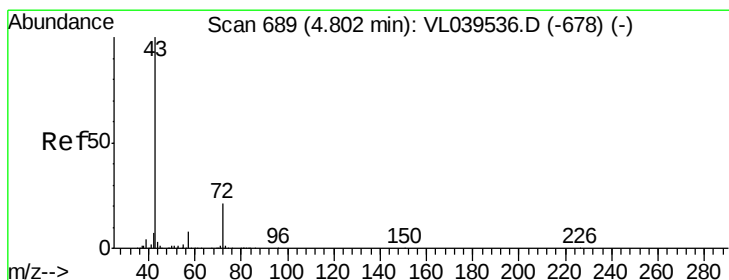
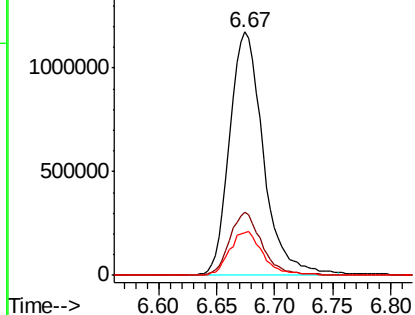
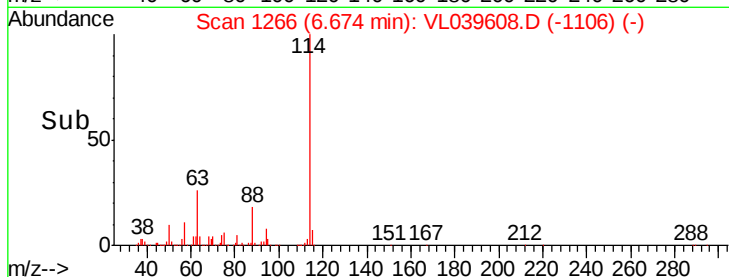
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 6.67
 Instrument: MSVOA_1
 Delta R.T.:
 ClientSampleId:
 Lab File: SVE-EFF-082222
 Acq: 31 Aug 2022 14:45

Tot Ion:114 Resp: 2366194

Ion	Ratio	Lower	Upper
114	100		
63	24.8	20.2	30.4
88	17.9	14.5	21.7



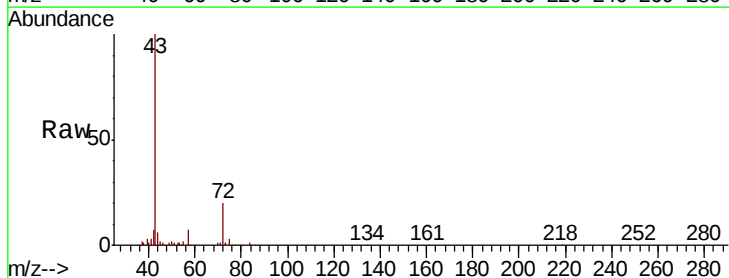
Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0



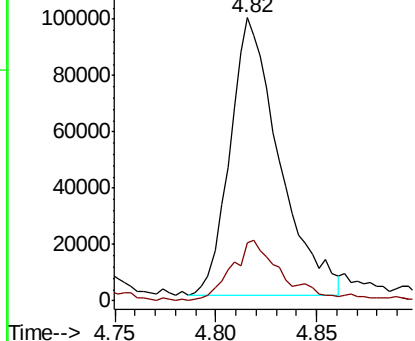
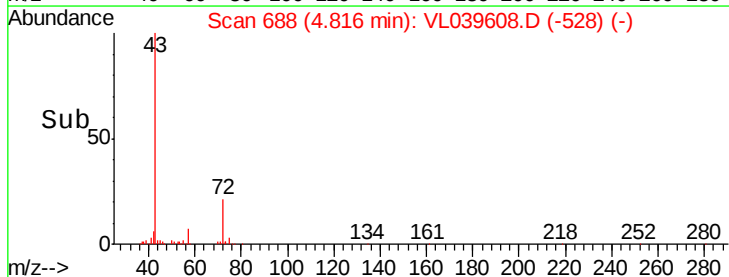
#34
 2-Butanone
 Concen: 1.436 ppbv
 RT: 4.82 min Scan# 688
 Delta R.T.: 0.01 min
 Lab File: VL039608.D
 Acq: 31 Aug 2022 14:45

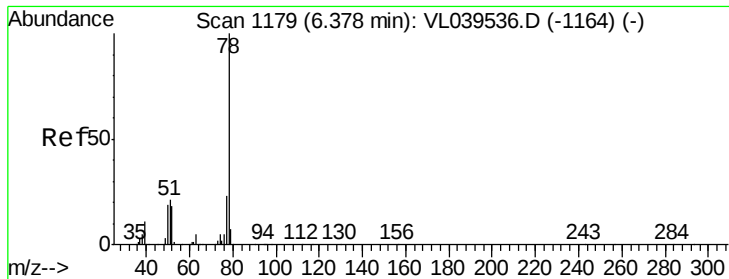
Tgt Ion: 43 Resp: 168945

Ion	Ratio	Lower	Upper
43	100		
72	23.8	17.9	26.9



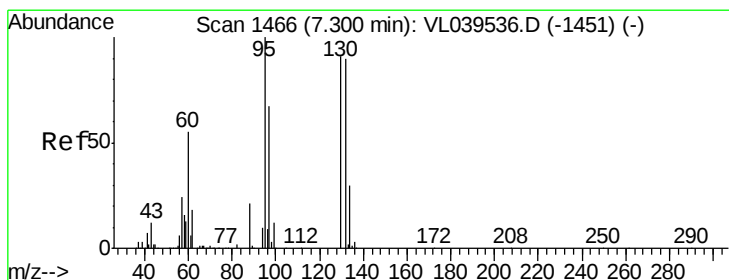
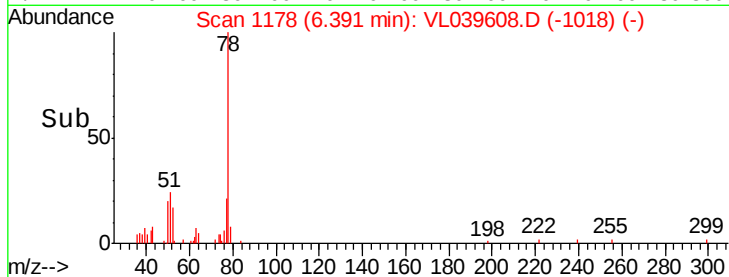
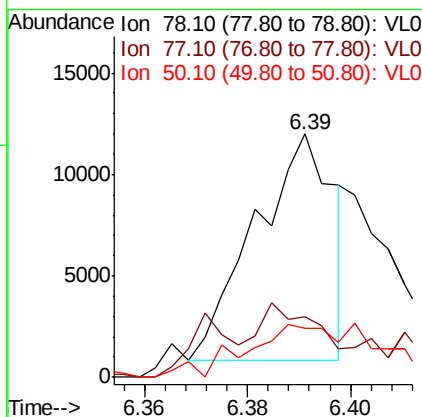
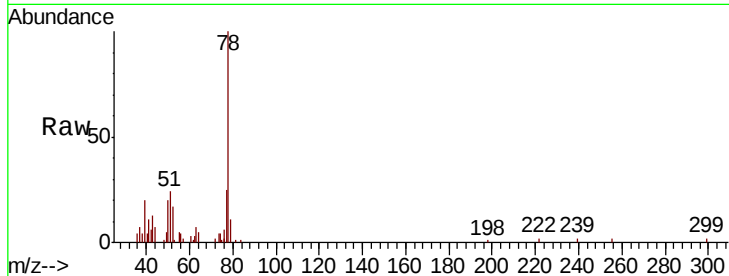
Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





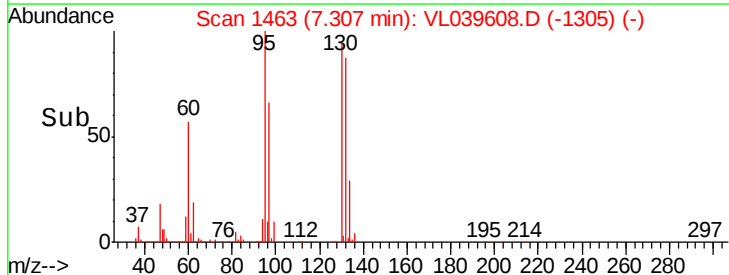
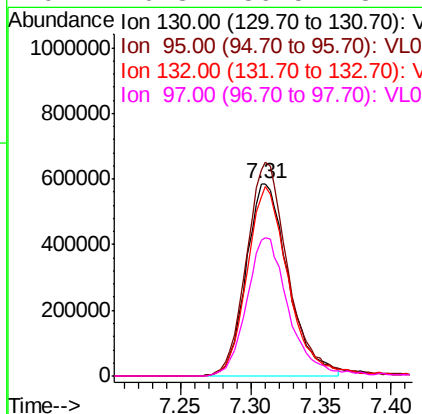
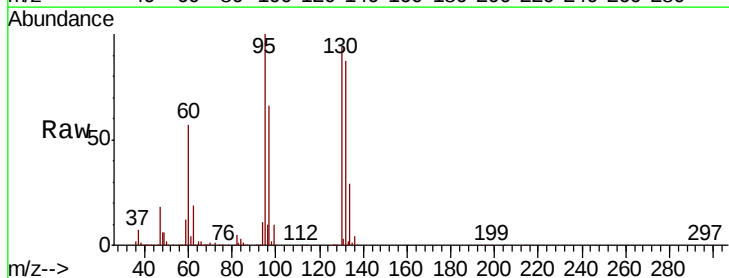
#36
Benzene
Concen: 0.066 ppbv
RT: 6.39
Delta R.T. MSVOA_L
Lab File: ClientSampled :
Acq: 31 Aug 2022 14:45

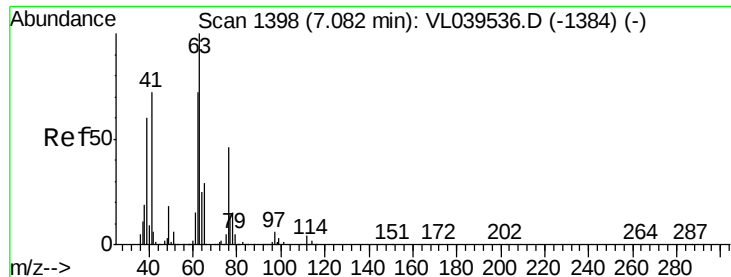
Tot Ion: 78 Resp: 11880
Ion Ratio Lower Upper
78 100
77 13.9 20.3 30.5#
50 14.7 15.5 23.3#



#38
Trichloroethene
Concen: 12.621 ppbv
RT: 7.31 min Scan# 1463
Delta R.T. 0.01 min
Lab File: VL039608.D
Acq: 31 Aug 2022 14:45

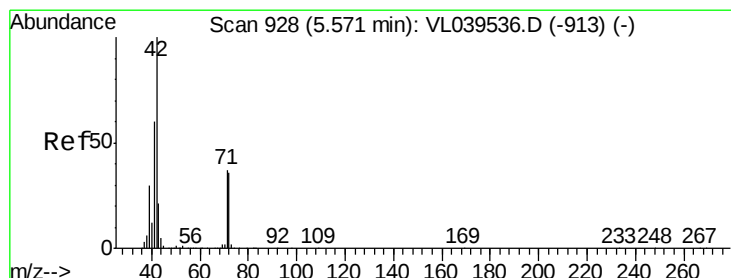
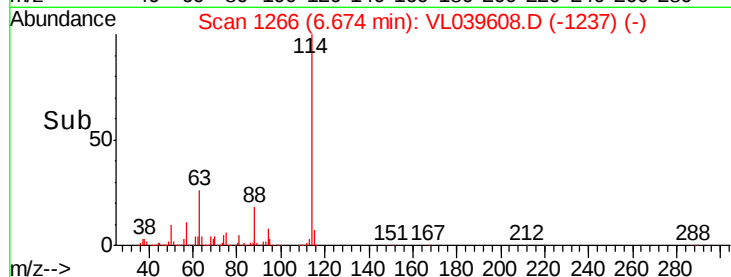
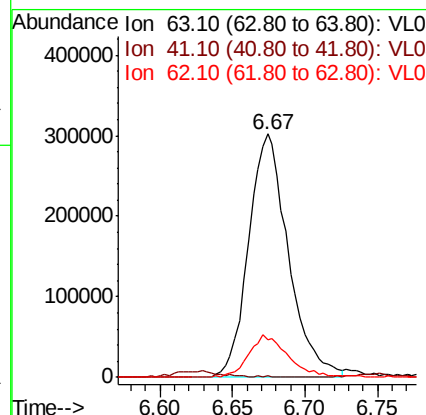
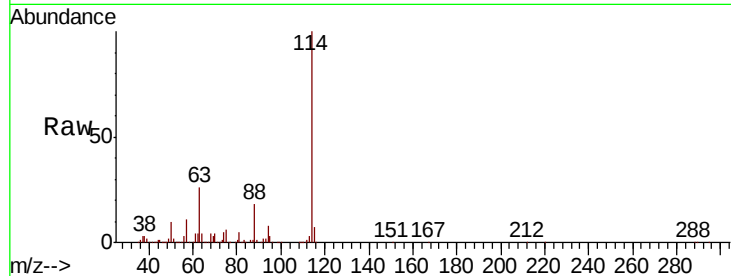
Tgt Ion:130 Resp: 1219684
Ion Ratio Lower Upper
130 100
95 106.9 87.3 130.9
132 92.9 76.7 115.1
97 70.3 56.5 84.7





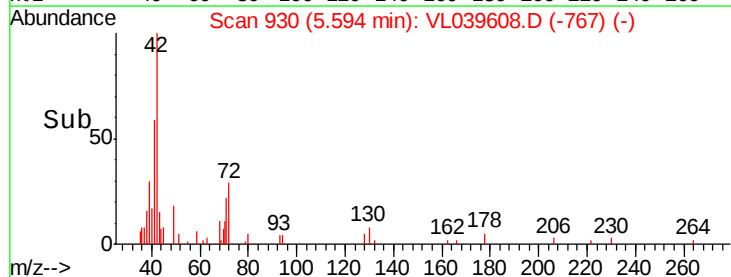
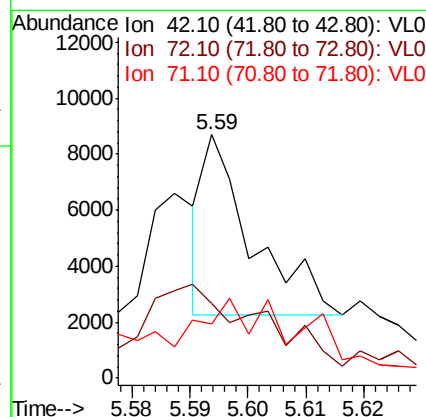
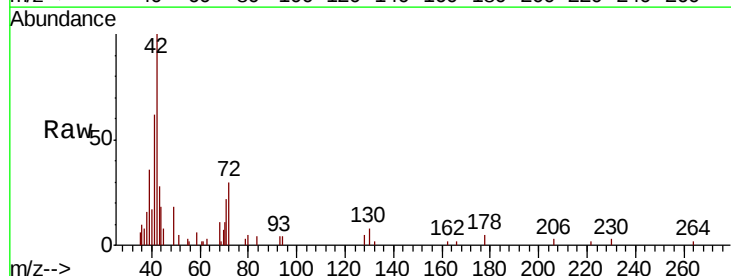
#39
 1,2-Dichloropropane
 Concen: 8.470 ppbv
 RT: 6.67
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SVE-EFF-082222
 Acq: 31 Aug 2022 14:45

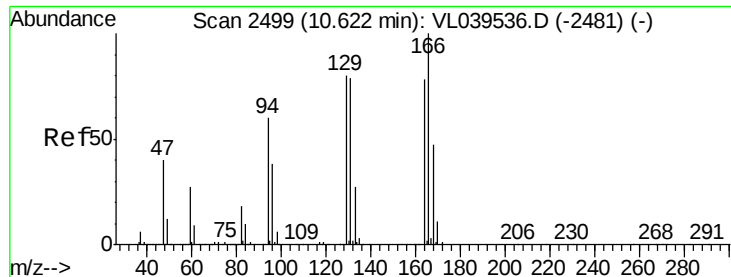
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.0	59.6	89.4#
62	15.2	51.4	77.0#



#41
 Tetrahydrofuran
 Concen: 0.053 ppbv
 RT: 5.59 min Scan# 930
 Delta R.T. 0.02 min
 Lab File: VL039608.D
 Acq: 31 Aug 2022 14:45

Tgt Ion	Ratio	Lower	Upper
42	100		
72	167.6	31.8	47.8#
71	147.2	31.8	47.8#





#52

Tetrachloroethene

Concen: 4.890 ppbv

RT: 10.64

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 31 Aug 2022 14:45

Tot Ion:164 Resp: 333697

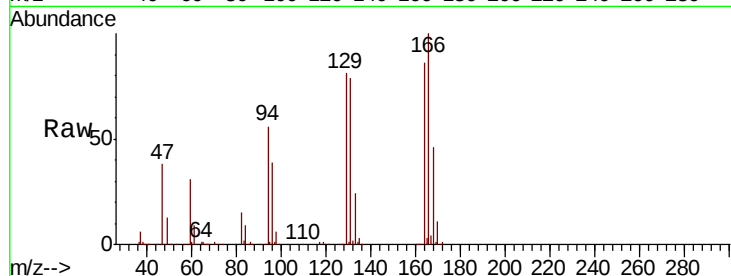
Ion Ratio Lower Upper

164 100

166 116.1 102.2 153.2

129 93.2 85.8 128.8

131 91.5 83.3 124.9



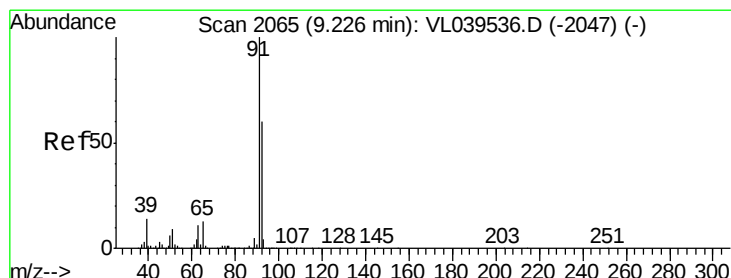
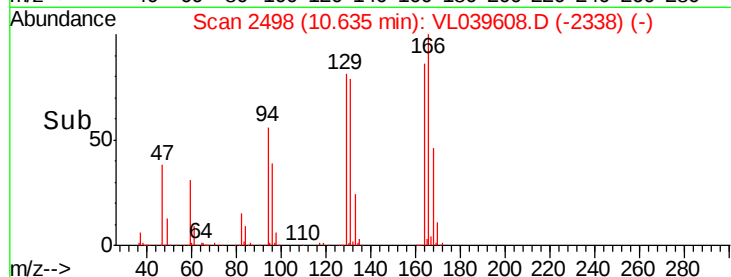
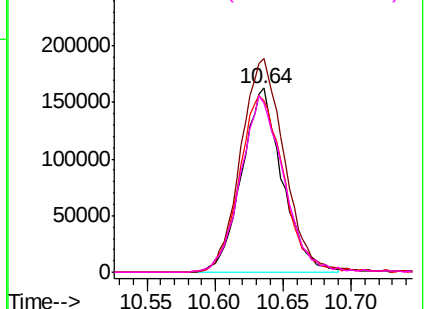
Abundance

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: 0.591 ppbv

RT: 9.24 min Scan# 2064

Delta R.T. 0.01 min

Lab File: VL039608.D

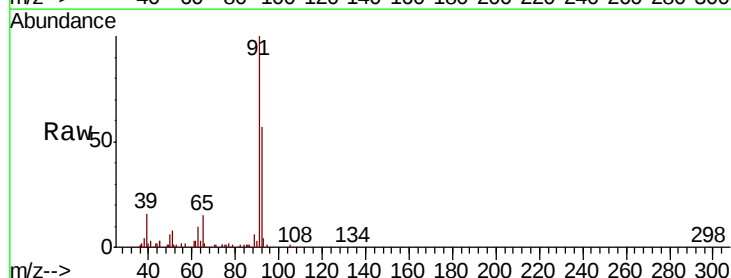
Acq: 31 Aug 2022 14:45

Tgt Ion: 91 Resp: 119381

Ion Ratio Lower Upper

91 100

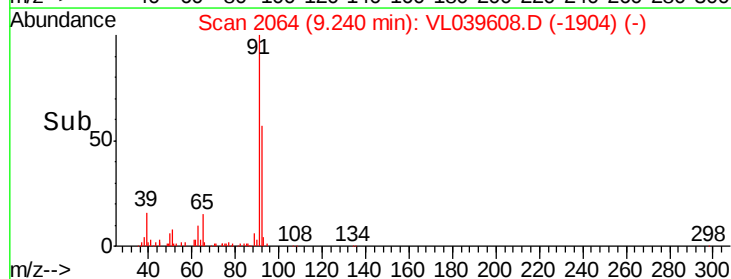
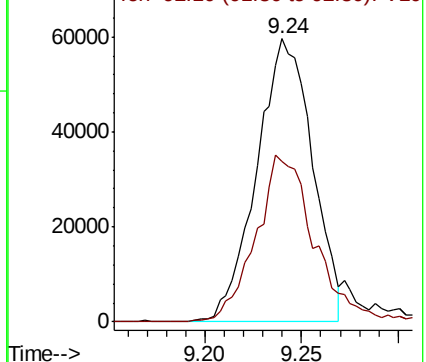
92 62.1 48.2 72.2

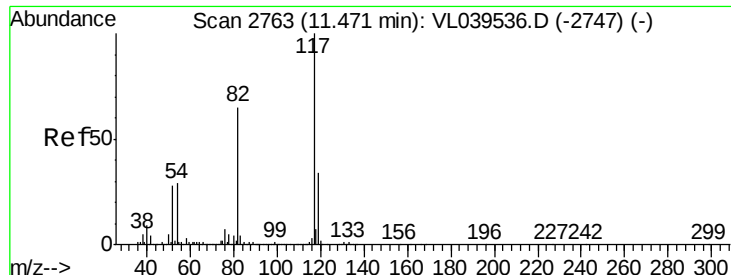


Abundance

Ion 91.10 (90.80 to 91.80): VL0

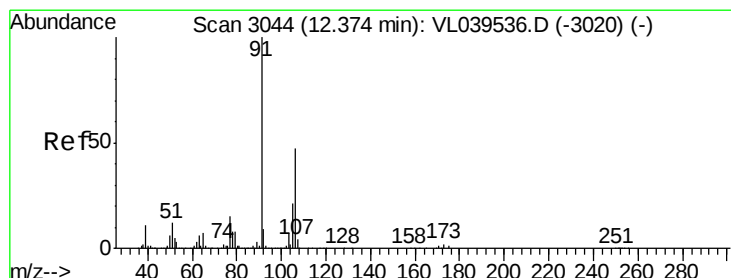
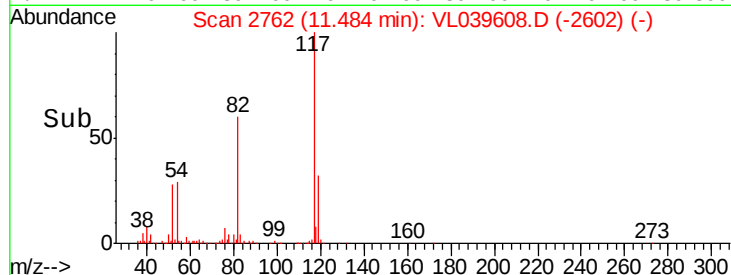
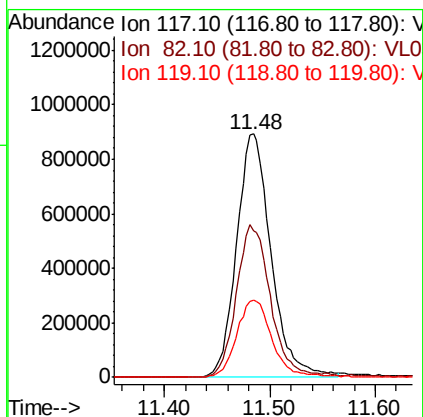
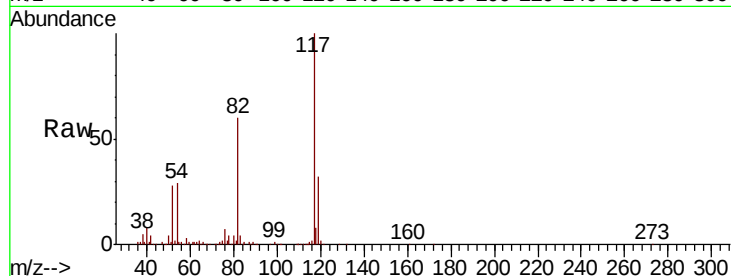
Ion 92.10 (91.80 to 92.80): VL0





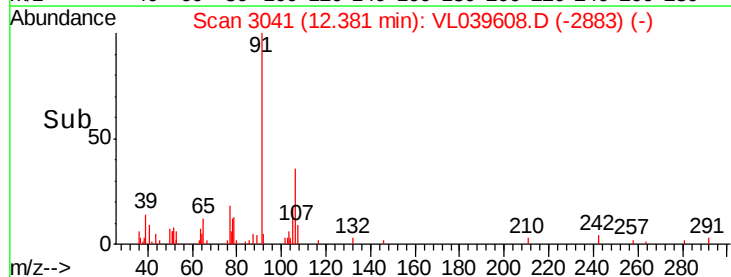
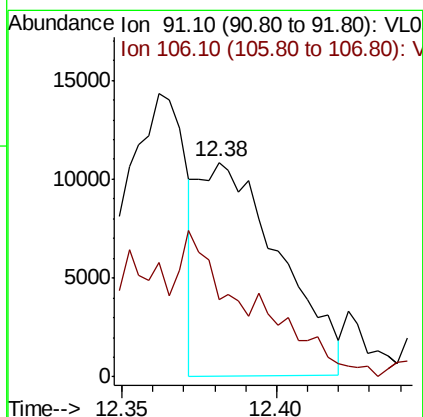
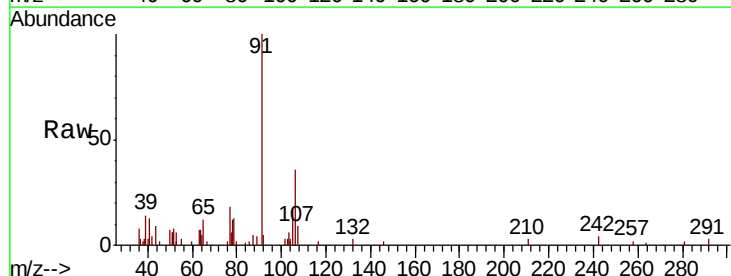
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.48 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
SVE-EFF-082222
Acq: 31 Aug 2022 14:45

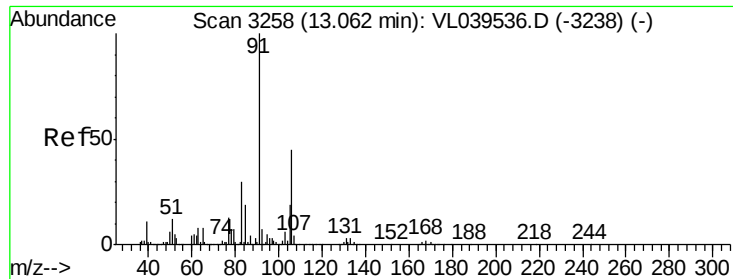
Tot Ion: 117 Resp: 2027880
Ion Ratio Lower Upper
117 100
82 63.2 50.8 76.2
119 32.8 24.1 36.1



#59
m/p-Xylene
Concen: 0.095 ppbv
RT: 12.38 min Scan# 3041
Delta R.T.: 0.01 min
Lab File: VL039608.D
Acq: 31 Aug 2022 14:45

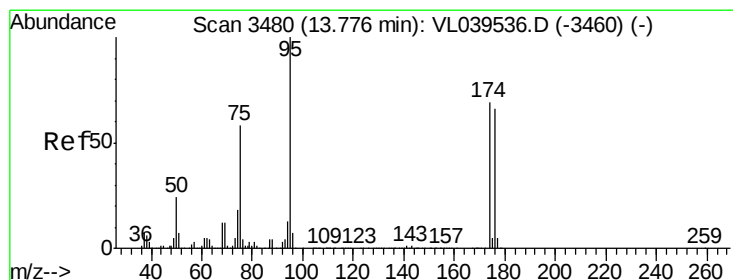
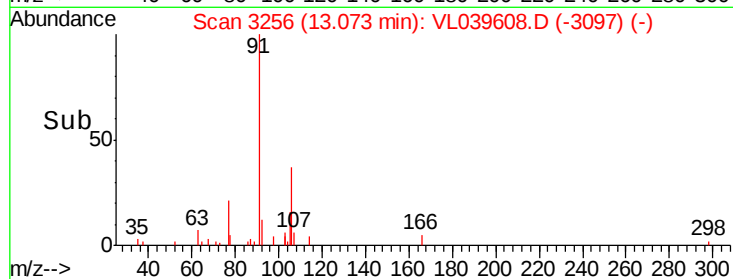
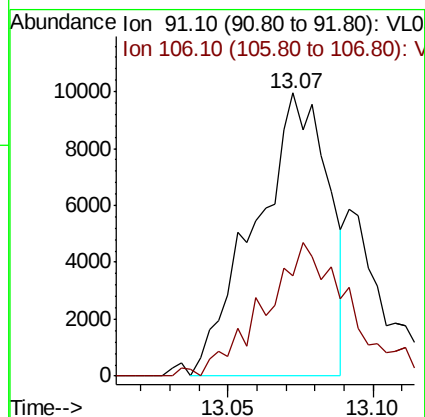
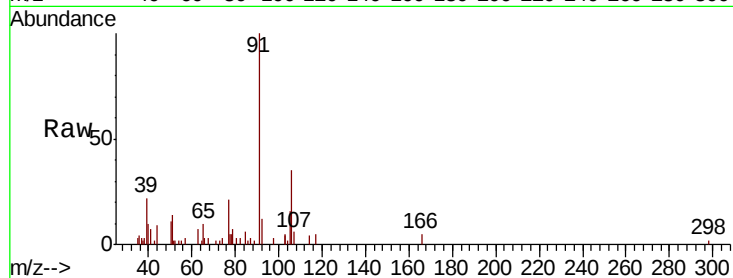
Tgt Ion: 91 Resp: 19826
Ion Ratio Lower Upper
91 100
106 110.8 35.4 53.2#





#60
o-Xylene
Concen: 0.087 ppbv
RT: 13.07 min
Delta R.T. MSVOA_L
Lab File: ClientSampled :
SVE-EFF-082222
Acq: 31 Aug 2022 14:45

Tot Ion: 91 Resp: 17442
Ion Ratio Lower Upper
91 100
106 58.0 22.4 67.3



#68
1-Bromo-4-Fluorobenzene
Concen: 9.710 ppbv
RT: 13.79 min Scan# 3480
Delta R.T. 0.02 min
Lab File: VL039608.D
Acq: 31 Aug 2022 14:45

Tgt Ion: 95 Resp: 1485583
Ion Ratio Lower Upper
95 100
174 71.7 55.9 83.9
175 5.4 4.2 6.4

