

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL083122\
 Data File : VL039610.D
 Acq On : 31 Aug 2022 16:24
 Operator : SY/AP
 Sample : N4408-02DUP
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 SVE-EFF-082222DUP

Quant Time: Aug 31 23:45:49 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	949496	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	6.67	114	2415395	10.00	ppbv	0.01
55) Chlorobenzene-d5	11.48	117	2123473	10.00	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	13.79	95	1543435	9.63	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.30%

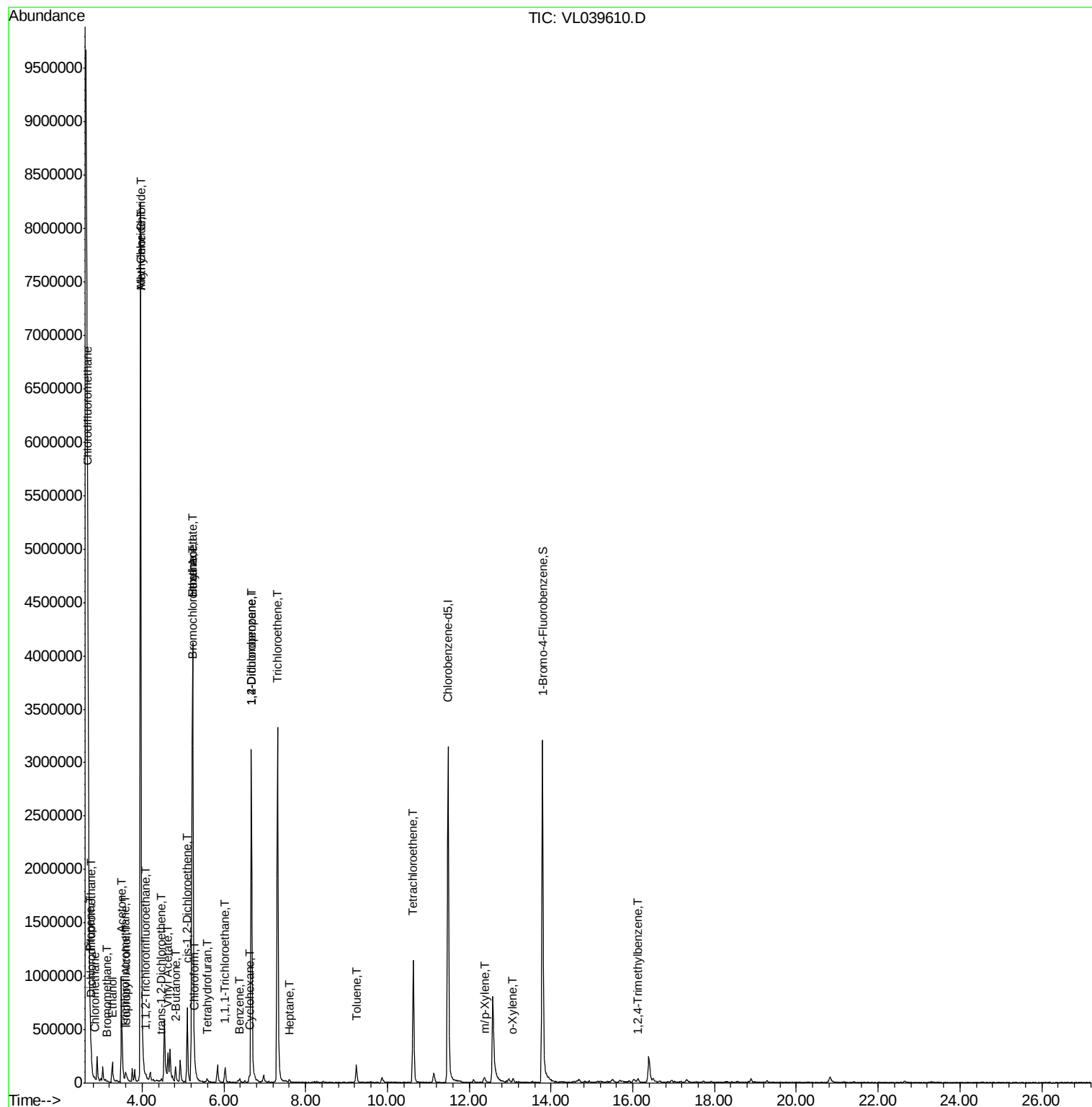
Target Compounds					Ovalue
2) Dichlorodifluoromethane	2.76	85	67467	0.534	ppbv 90
3) Chlorodifluoromethane	2.68	51	89837	0.794	ppbv # 71
4) Chloromethane	2.84	50	17416	0.256	ppbv # 88
6) Bromomethane	3.14	94	1718	0.074	ppbv # 2
9) Propene	2.74	41	22386	0.432	ppbv 95
10) Heptane	7.61	43	7405	0.062	ppbv # 70
11) Trichlorofluoromethane	3.59	101	39648	0.286	ppbv # 82
12) 1,1,2-Trichlorotrifluoroet	4.09	101	3306	0.032	ppbv # 13
13) Ethanol	3.27	45	181021	48.660	ppbv 73
15) Acetone	3.50	43	1049948	9.872	ppbv 95
19) Isopropyl Alcohol	3.61	45	46998	0.908	ppbv # 88
20) Methylene Chloride	3.96	84	3048763	70.556	ppbv 97
21) Allyl Chloride	3.96	41	134267	1.941	ppbv # 21
22) trans-1,2-Dichloroethene	4.46	96	2782	0.061	ppbv # 62
23) Vinyl Acetate	4.64	43	137665	2.722	ppbv # 7
25) Ethyl Acetate	5.24	43	1103349	4.848	ppbv # 76
26) Hexane	5.24	57	1546205	16.646	ppbv # 39
29) Chloroform	5.29	83	25286	0.174	ppbv # 82
30) Cyclohexane	6.62	84	15153	0.197	ppbv # 73
31) cis-1,2-Dichloroethene	5.10	61	380800	4.233	ppbv 98
32) 1,1,1-Trichloroethane	6.03	97	85974	0.673	ppbv 97
34) 2-Butanone	4.82	43	154246	1.285	ppbv 100
36) Benzene	6.39	78	9216	0.050	ppbv # 83
38) Trichloroethene	7.31	130	1113732	11.289	ppbv 97
39) 1,2-Dichloropropane	6.67	63	580884	8.391	ppbv # 26
41) Tetrahydrofuran	5.59	42	7454	0.104	ppbv # 69
52) Tetrachloroethene	10.63	164	290086	4.164	ppbv 98
53) Toluene	9.24	91	114839	0.557	ppbv 99
59) m/p-Xylene	12.38	91	10809	0.049	ppbv # 32
60) o-Xylene	13.07	91	8675	0.041	ppbv # 1
74) 1,2,4-Trimethylbenzene	16.13	105	15750	0.063	ppbv # 63

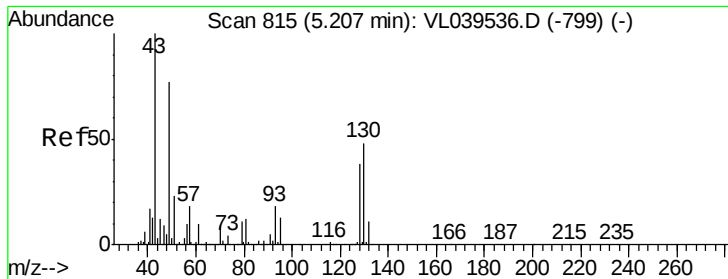
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Aug 26 06:05:16 2022
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.22 Instrument: MSVOA_L

Delta R.T.

Lab File: ClientSampleId:

Acq: 31 Aug 2022 16:24

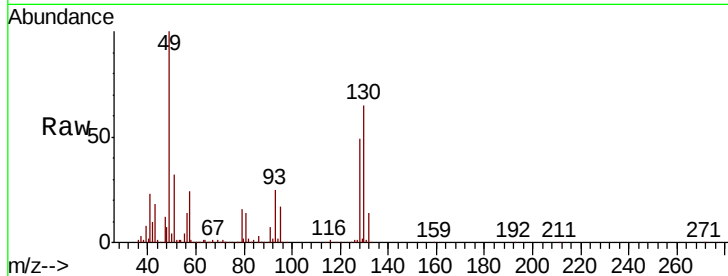
Tot Ion: 49 Resp: 949496

Ion Ratio Lower Upper

49 100

128 50.8 26.7 80.0

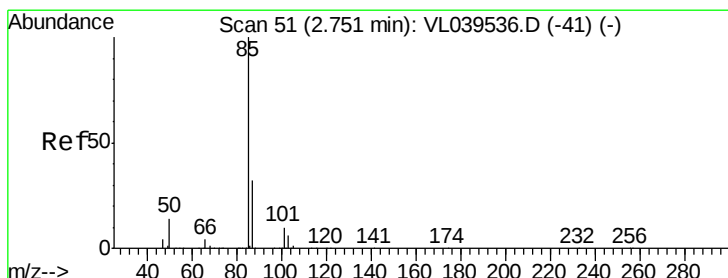
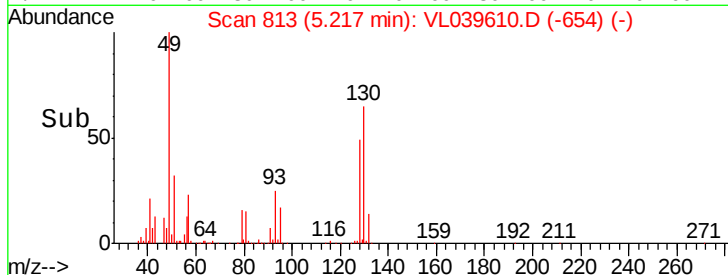
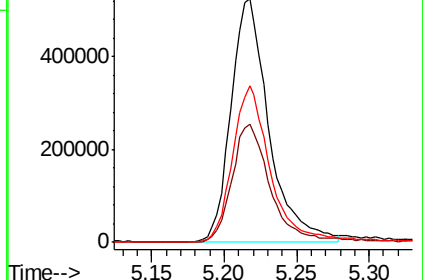
130 65.4 34.3 102.8



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: 0.534 ppbv

RT: 2.76 min Scan# 48

Delta R.T. 0.01 min

Lab File: VL039610.D

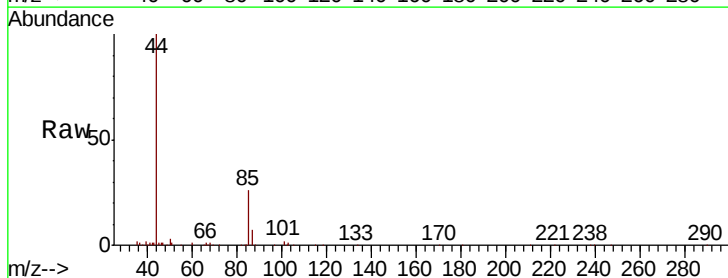
Acq: 31 Aug 2022 16:24

Tgt Ion: 85 Resp: 67467

Ion Ratio Lower Upper

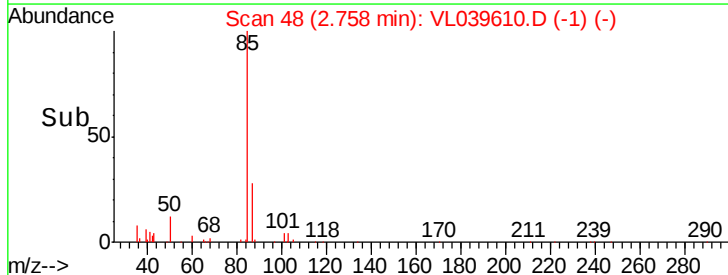
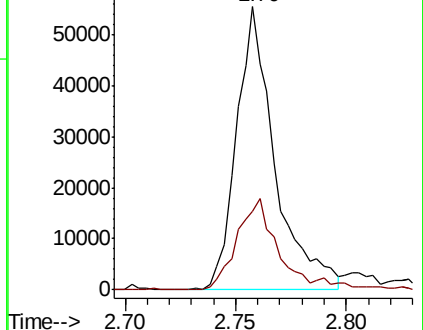
85 100

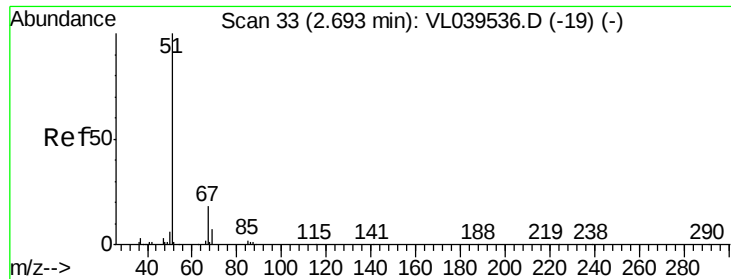
87 27.9 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.794 ppbv

RT: 2.68 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

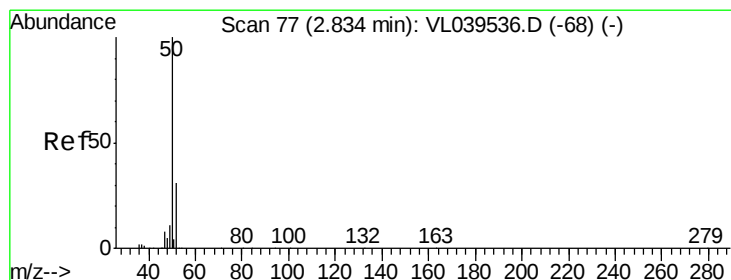
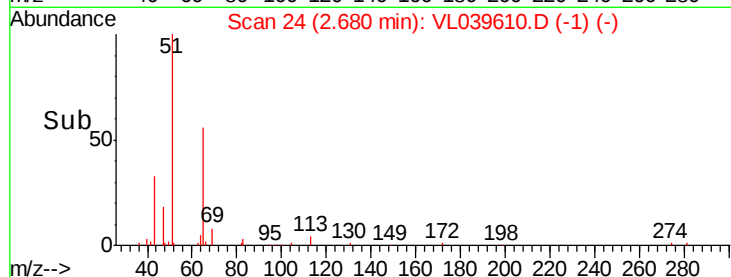
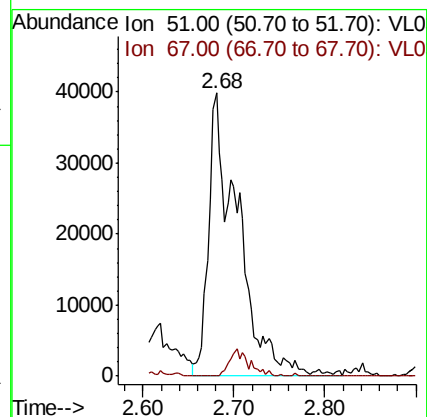
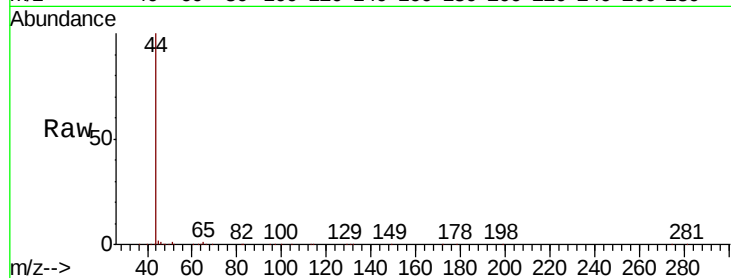
Acq: 31 Aug 2022 16:24 SVE-EFF-082222DUP

Tot Ion: 51 Resp: 89837

Ion Ratio Lower Upper

51 100

67 6.5 15.7 23.5#



#4

Chloromethane

Concen: 0.256 ppbv

RT: 2.84 min Scan# 74

Delta R.T. 0.01 min

Lab File: VL039610.D

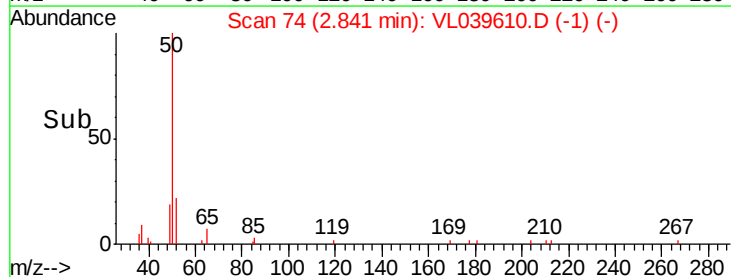
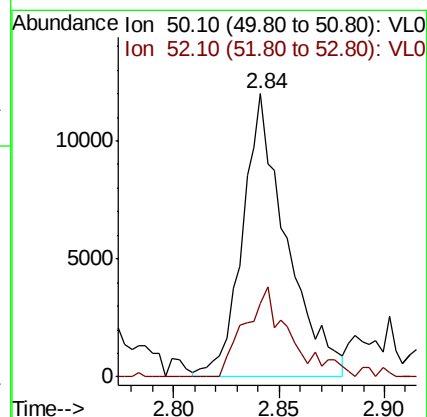
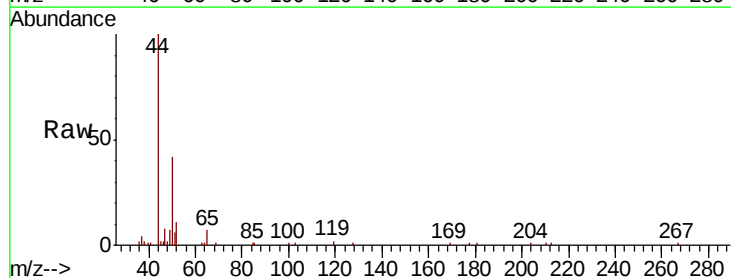
Acq: 31 Aug 2022 16:24

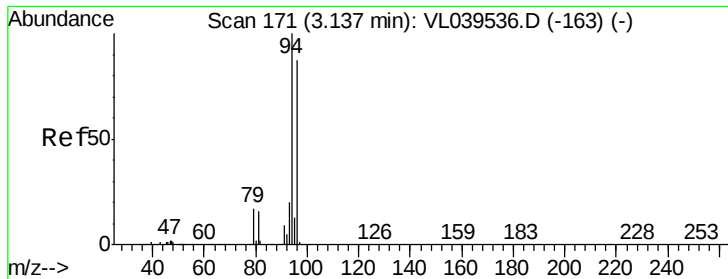
Tgt Ion: 50 Resp: 17416

Ion Ratio Lower Upper

50 100

52 26.3 26.5 39.7#





#6

Bromomethane

Concen: 0.074 ppbv

RT: 3.14 Instrument:

Delta R.T. MSVOA.L

Lab File: ClientSampleId:

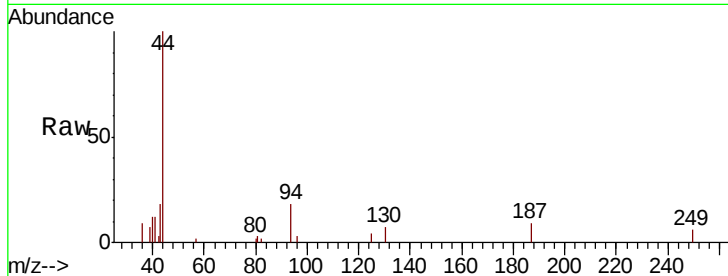
Acq: 31 Aug 2022 16:24 SVE-EFF-082222DUP

Tot Ion: 94 Resp: 1718

Ion Ratio Lower Upper

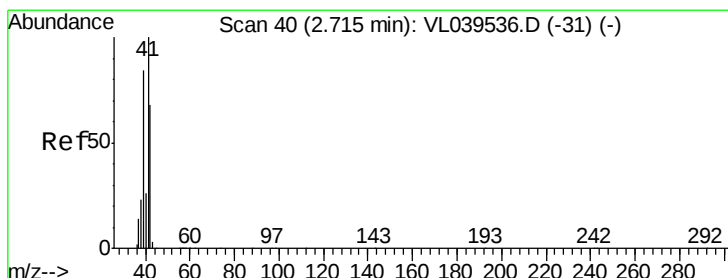
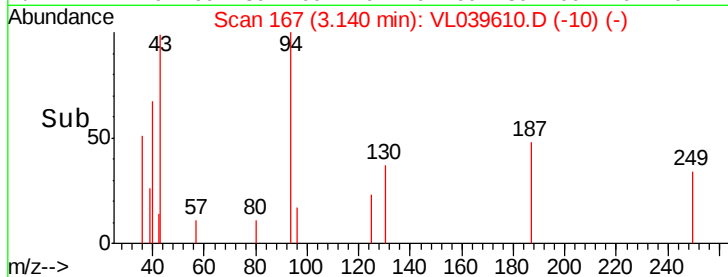
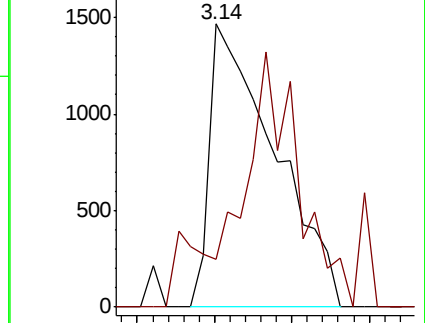
94 100

96 0.0 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: 0.432 ppbv

RT: 2.74 min Scan# 41

Delta R.T. 0.02 min

Lab File: VL039610.D

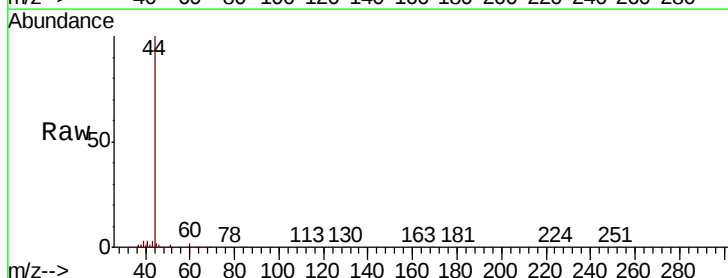
Acq: 31 Aug 2022 16:24

Tgt Ion: 41 Resp: 22386

Ion Ratio Lower Upper

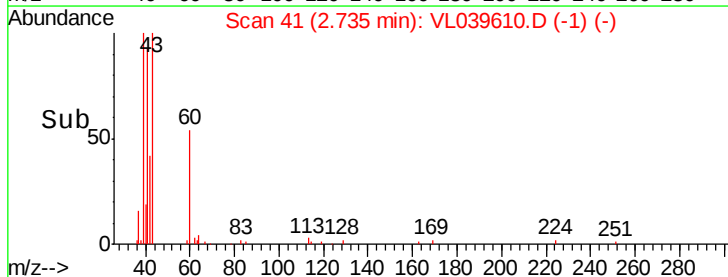
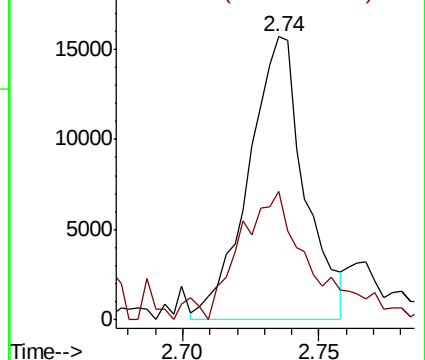
41 100

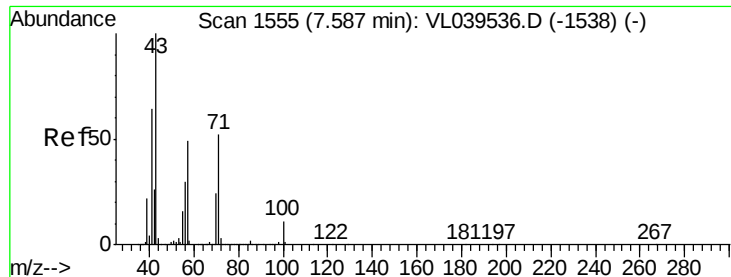
42 64.7 55.2 82.8



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#10

Heptane

Concen: 0.062 ppbv

RT: 7.61 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

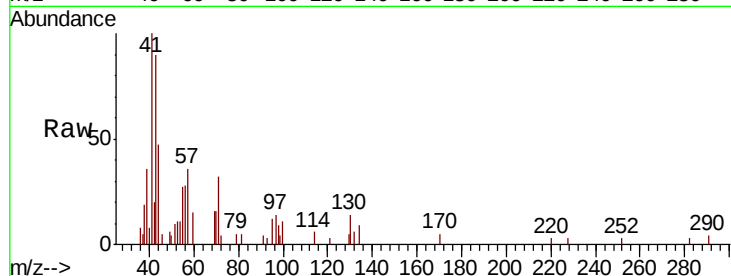
Acq: 31 Aug 2022 16:24 SVE-EFF-082222DUP

Tot Ion: 43 Resp: 7405

Ion Ratio Lower Upper

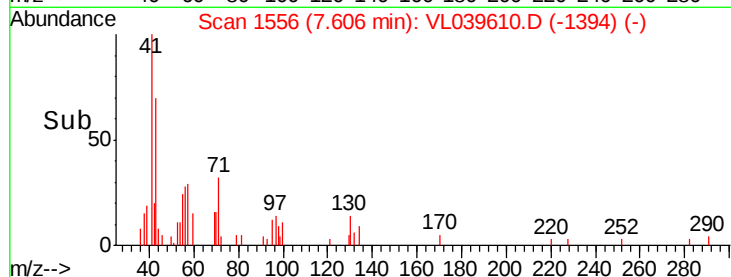
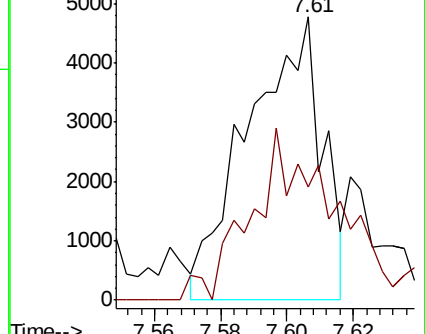
43 100

57 71.2 40.5 60.7#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#11

Trichlorofluoromethane

Concen: 0.286 ppbv

RT: 3.59 min Scan# 308

Delta R.T. 0.01 min

Lab File: VL039610.D

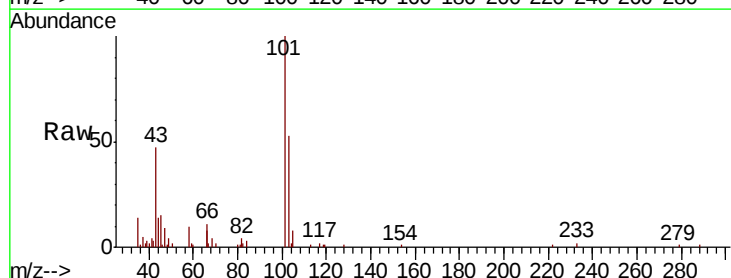
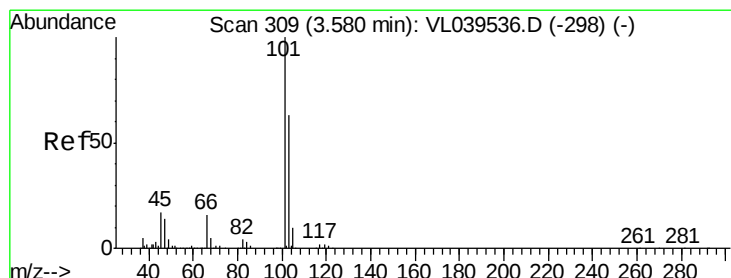
Acq: 31 Aug 2022 16:24

Tgt Ion:101 Resp: 39648

Ion Ratio Lower Upper

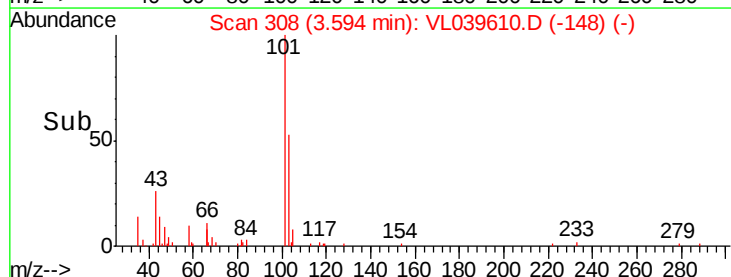
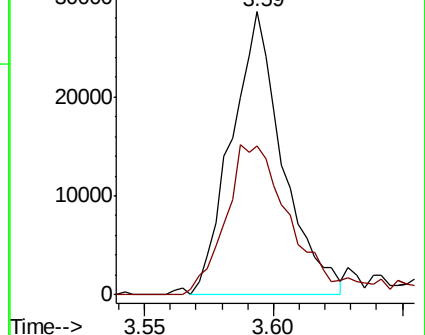
101 100

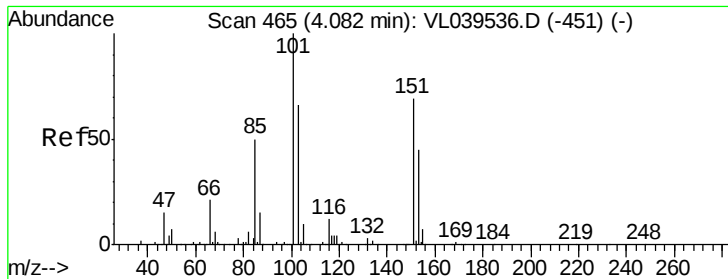
103 50.7 51.8 77.8#



Abundance Ion 101.00 (100.70 to 101.70): V

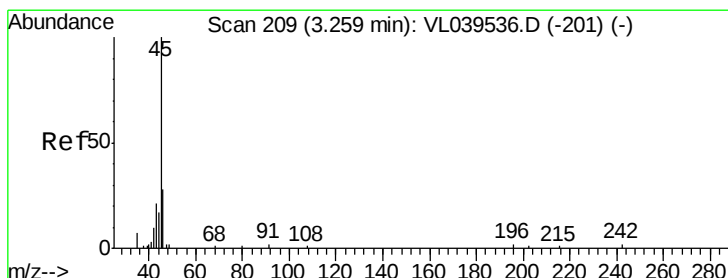
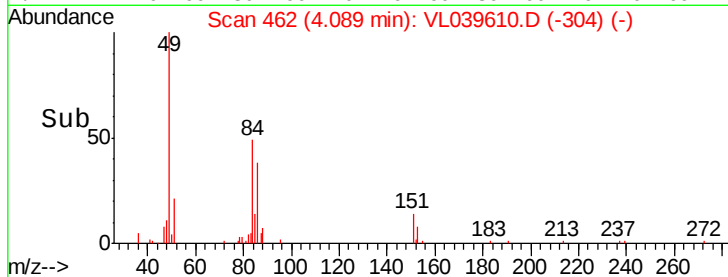
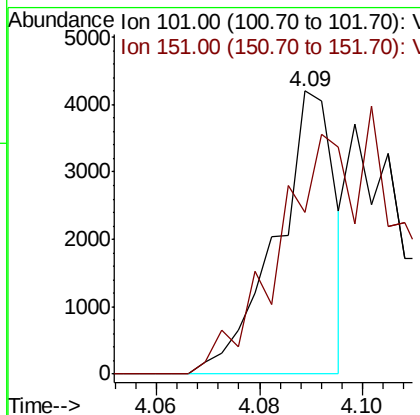
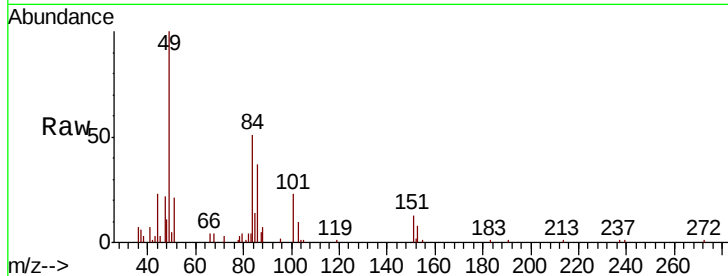
Ion 103.00 (102.70 to 103.70): V





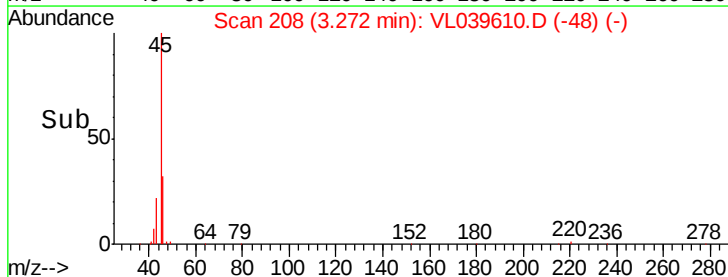
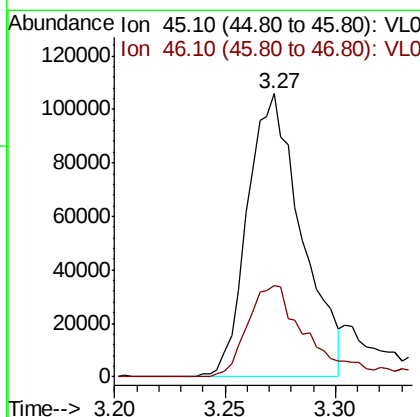
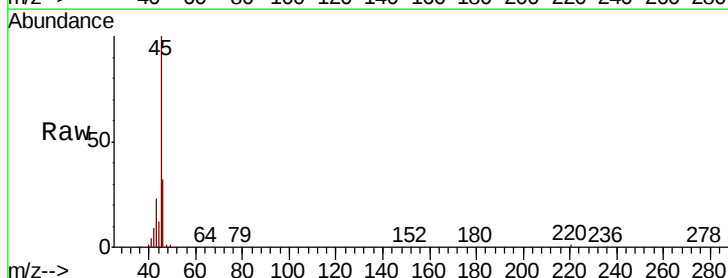
#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.032 ppbv
 RT: 4.09
 Instrument: MSVOA_L
 Delta R.T.:
 ClientSampleId:
 Lab File: SVE-EFF-082222DUP
 Acq: 31 Aug 2022 16:24

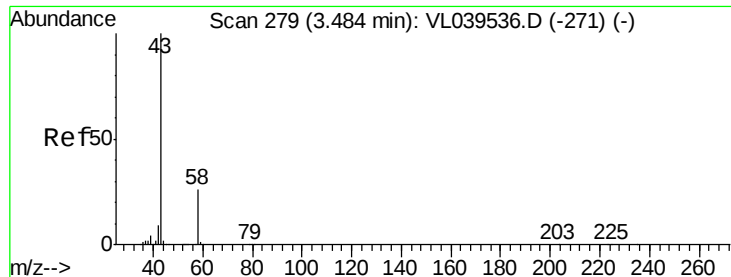
Tot Ion: 101 Resp: 3306
 Ion Ratio Lower Upper
 101 100
 151 0.0 58.9 88.3#



#13
 Ethanol
 Concen: 48.660 ppbv
 RT: 3.27 min Scan# 208
 Delta R.T. 0.01 min
 Lab File: VL039610.D
 Acq: 31 Aug 2022 16:24

Tgt Ion: 45 Resp: 181021
 Ion Ratio Lower Upper
 45 100
 46 37.4 22.8 91.2





#15

Acetone

Concen: 9.872 ppbv

RT: 3.50

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

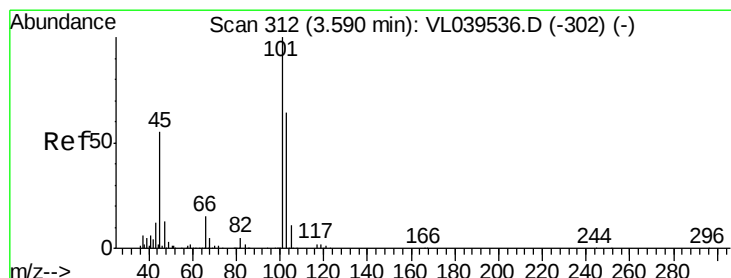
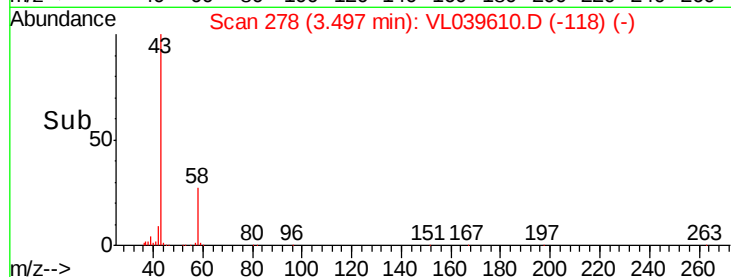
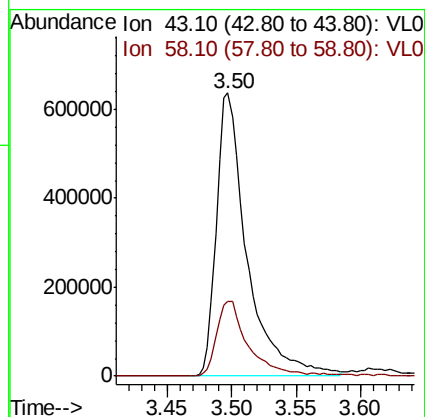
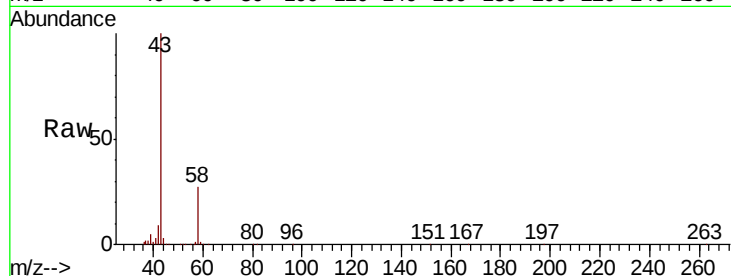
Acq: 31 Aug 2022 16:24

Tot Ion: 43 Resp: 1049948

Ion Ratio Lower Upper

43 100

58 28.6 21.0 31.6



#19

Isopropyl Alcohol

Concen: 0.908 ppbv

RT: 3.61 min Scan# 314

Delta R.T. 0.02 min

Lab File: VL039610.D

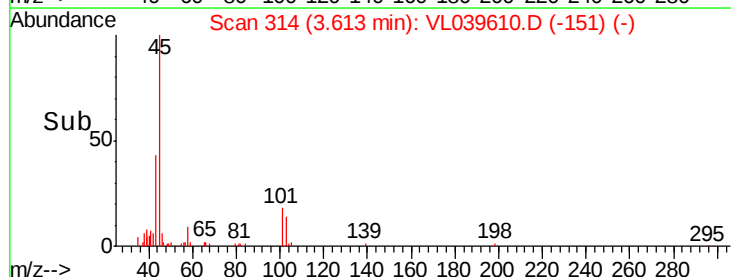
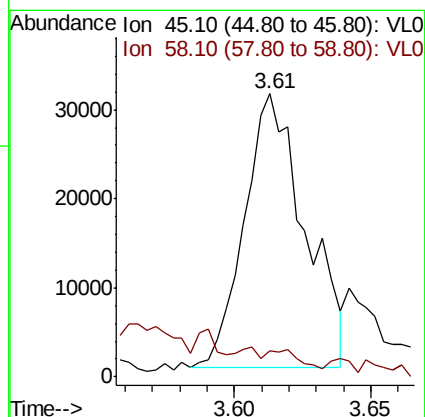
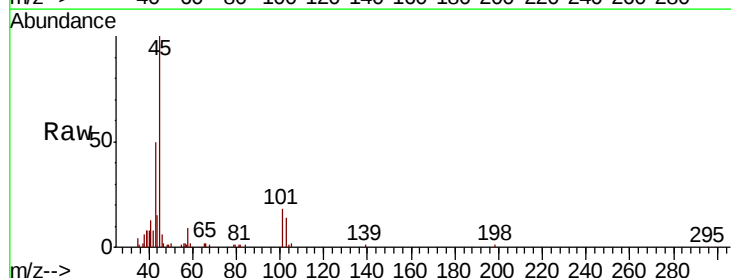
Acq: 31 Aug 2022 16:24

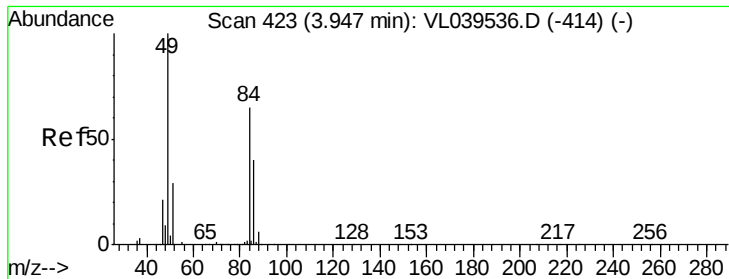
Tgt Ion: 45 Resp: 46998

Ion Ratio Lower Upper

45 100

58 0.0 3.2 4.8#

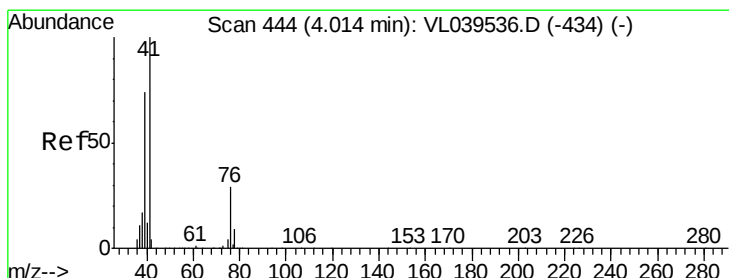
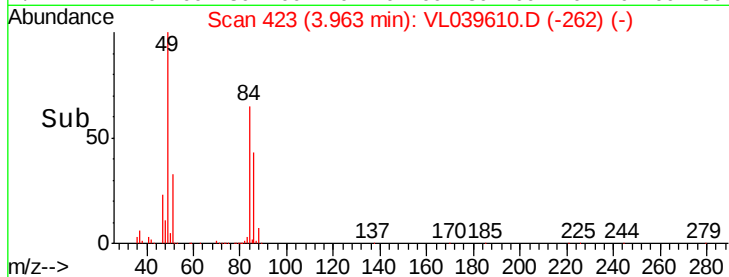
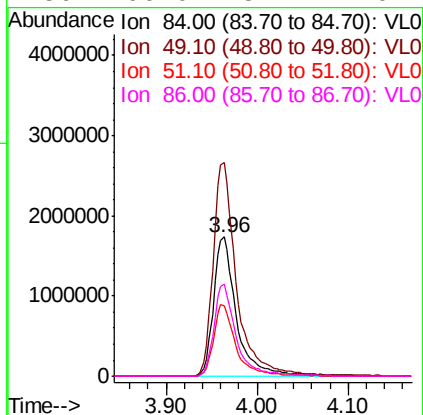
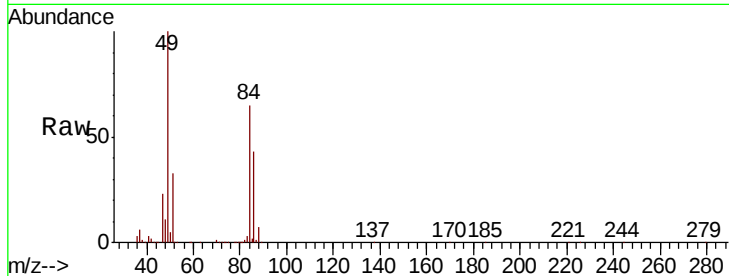




#20
Methvlene Chloride
Concen: 70.556 ppbv
RT: 3.96 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SVE-EFF-082222DUP
Acq: 31 Aug 2022 16:24

Tot Ion: 84 Resp: 3048763

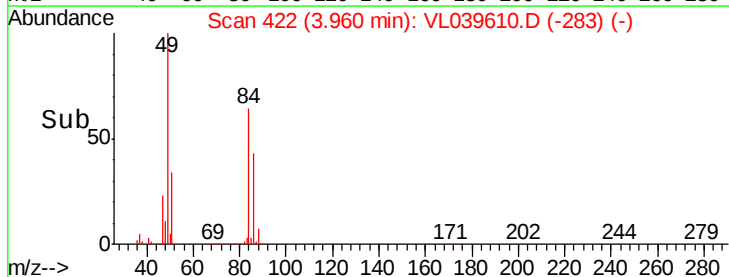
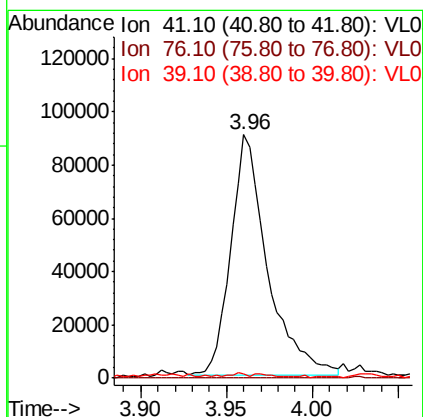
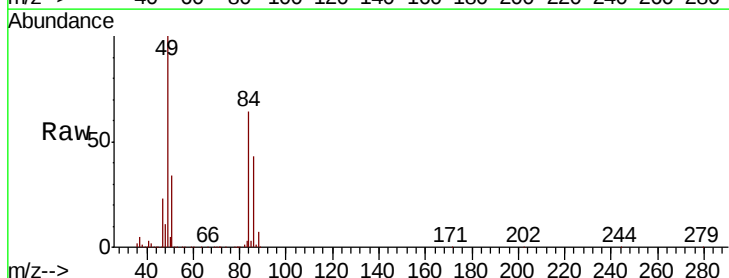
Ion	Ratio	Lower	Upper
84	100		
49	153.6	123.1	184.7
51	50.2	34.4	51.6
86	66.0	51.1	76.7

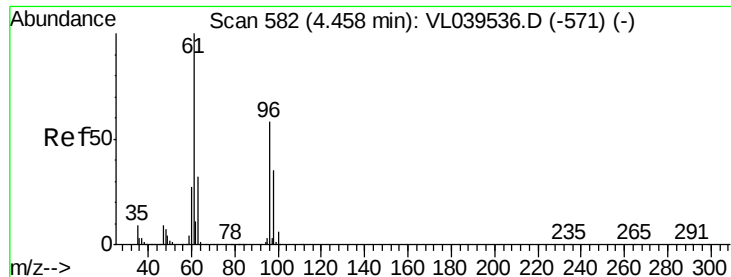


#21
Allyl Chloride
Concen: 1.941 ppbv
RT: 3.96 min Scan# 422
Delta R.T. -0.05 min
Lab File: VL039610.D
Acq: 31 Aug 2022 16:24

Tgt Ion: 41 Resp: 134267

Ion	Ratio	Lower	Upper
41	100		
76	0.0	24.4	36.6#
39	1.6	63.5	95.3#





#22

trans-1,2-Dichloroethene

Concen: 0.061 ppbv

RT: 4.46 Instrument: MSVOA_L

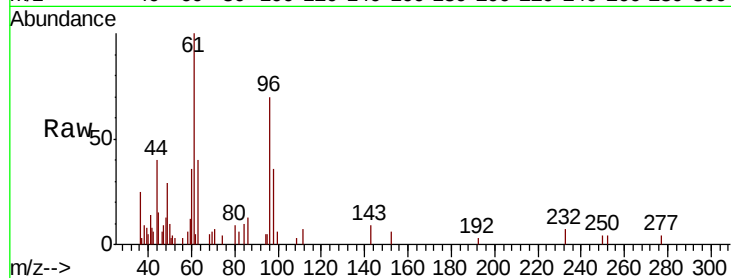
Delta R.T. ClientSampleId:

Lab File: SVE-EFF-082222DUP

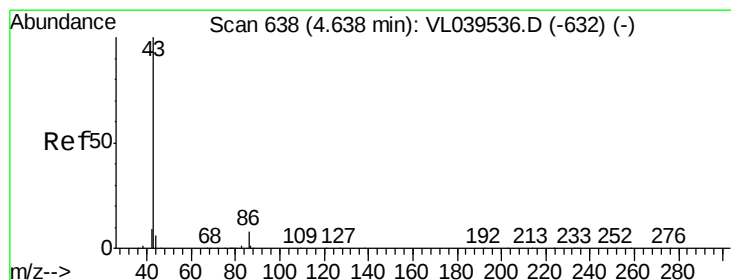
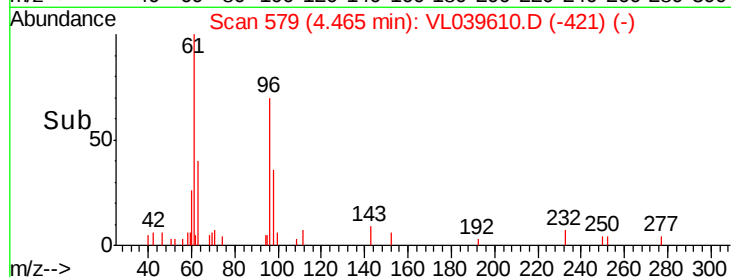
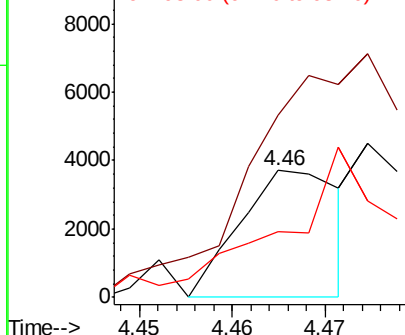
Acq: 31 Aug 2022 16:24

Tot Ion: 96 Resp: 2782

Ion	Ratio	Lower	Upper
96	100		
61	111.9	130.6	195.8#
98	37.5	53.4	80.0#



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



#23

Vinyl Acetate

Concen: 2.722 ppbv

RT: 4.64 min Scan# 632

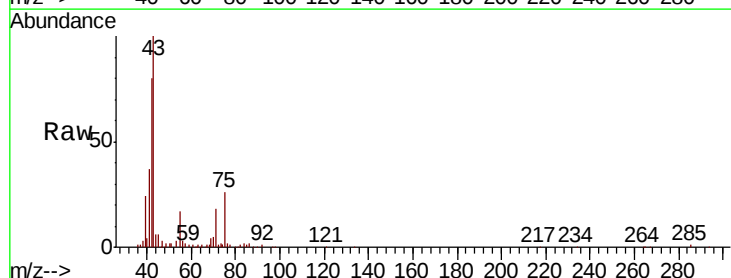
Delta R.T. -0.00 min

Lab File: VL039610.D

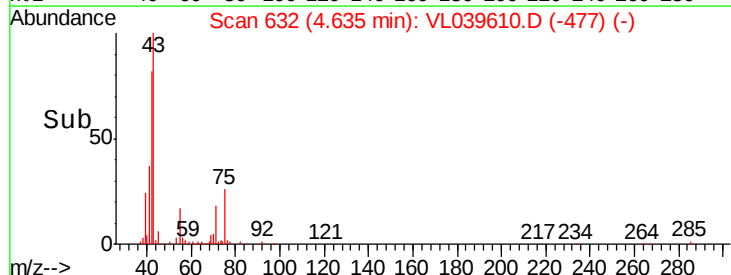
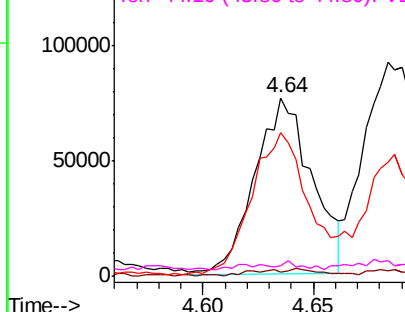
Acq: 31 Aug 2022 16:24

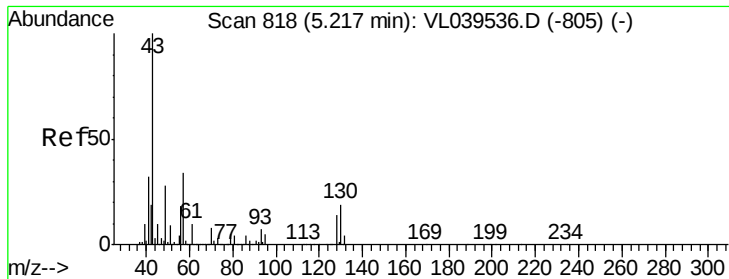
Tgt Ion: 43 Resp: 137665

Ion	Ratio	Lower	Upper
43	100		
86	1.7	5.0	7.6#
42	80.7	7.7	11.5#
44	2.1	4.6	7.0#



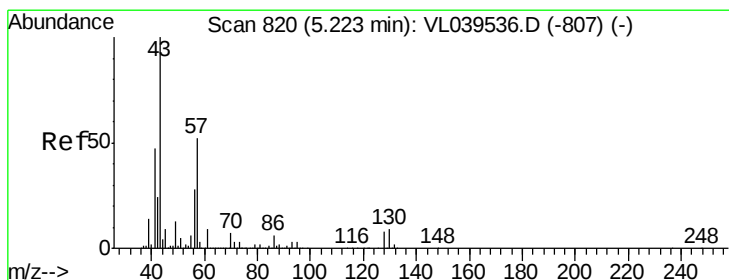
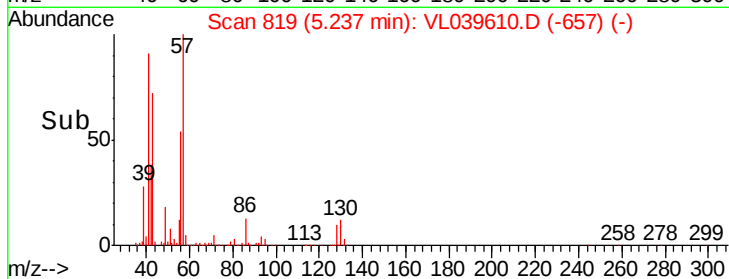
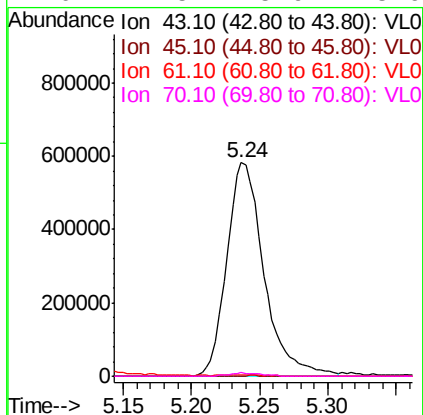
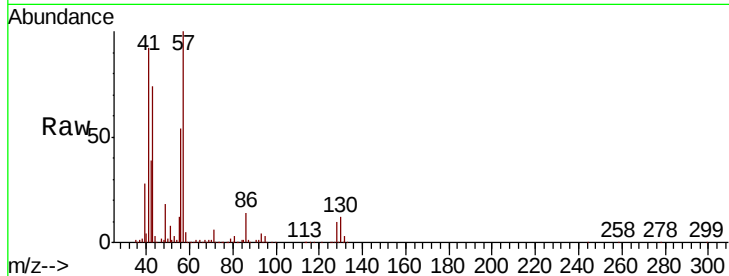
Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0





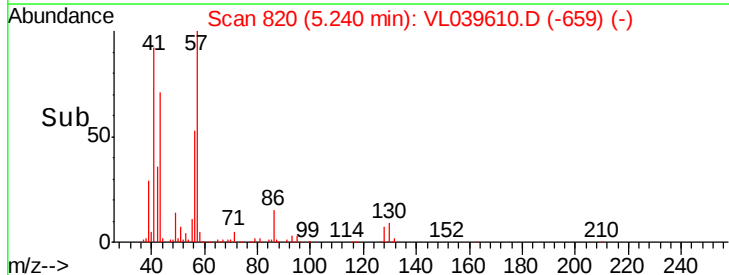
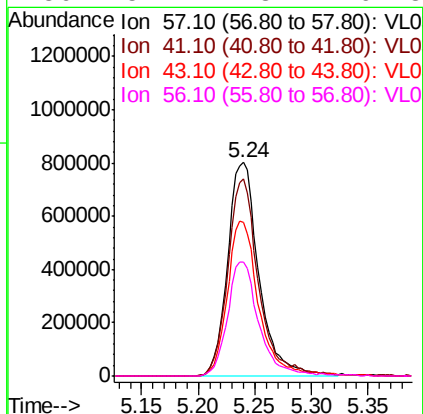
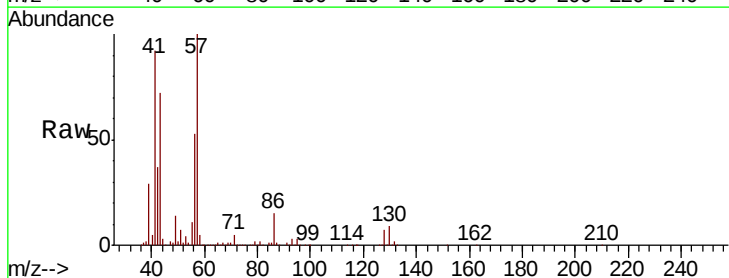
#25
Ethyl Acetate
Concen: 4.848 ppbv
RT: 5.24 min
Delta R.T.: 0.02 min
Lab File: VL039610.D
Acq: 31 Aug 2022 16:24

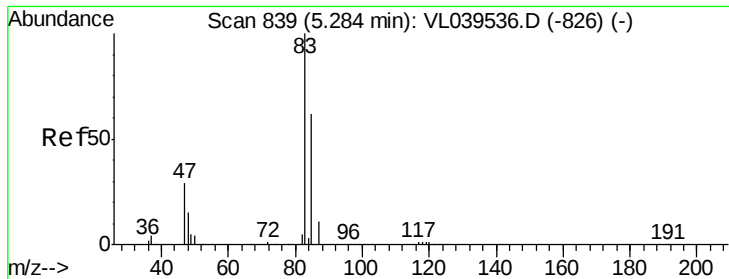
Tot Ion:	43	Resp:	1103349
Ion	Ratio	Lower	Upper
43	100		
45	0.6	8.2	12.4#
61	0.0	8.3	12.5#
70	1.5	5.9	8.9#



#26
Hexane
Concen: 16.646 ppbv
RT: 5.24 min Scan# 820
Delta R.T.: 0.02 min
Lab File: VL039610.D
Acq: 31 Aug 2022 16:24

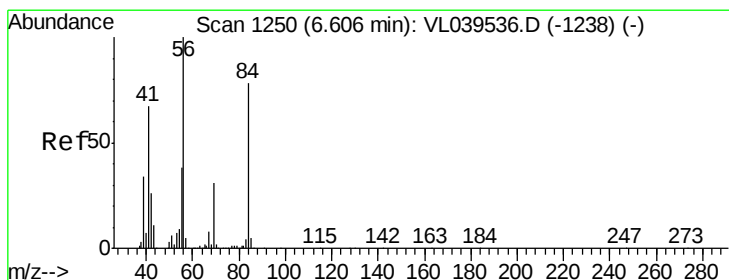
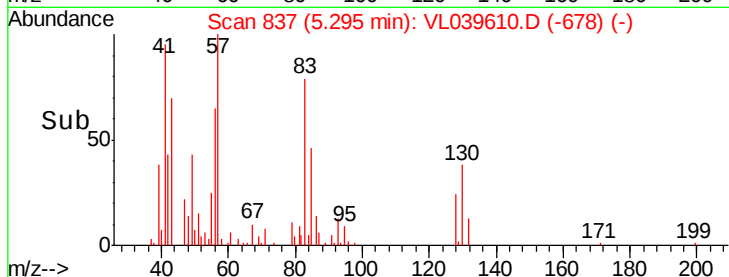
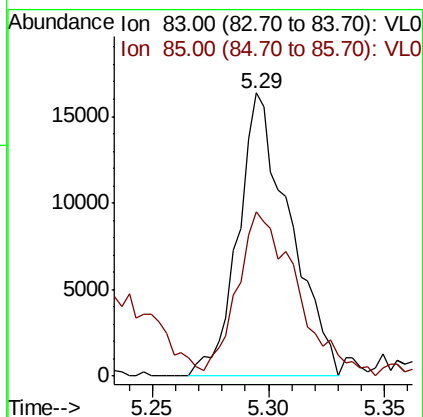
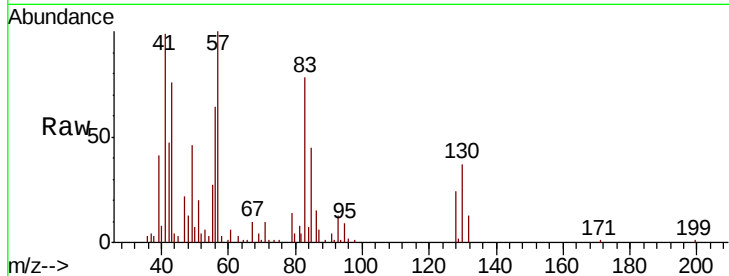
Tgt Ion:	57	Resp:	1546205
Ion	Ratio	Lower	Upper
57	100		
41	91.9	76.9	115.3
43	72.9	191.0	286.6#
56	54.2	43.2	64.8





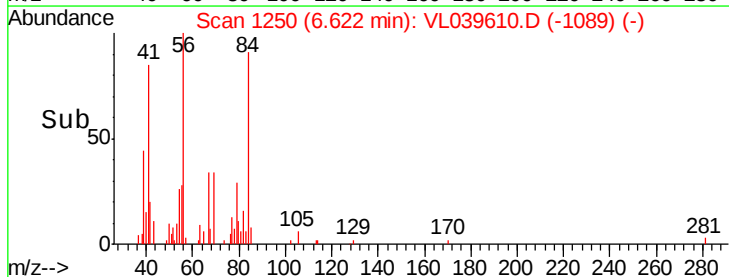
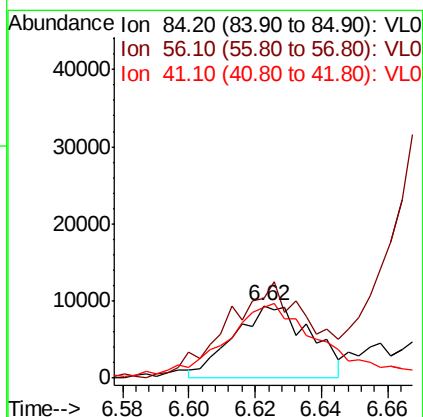
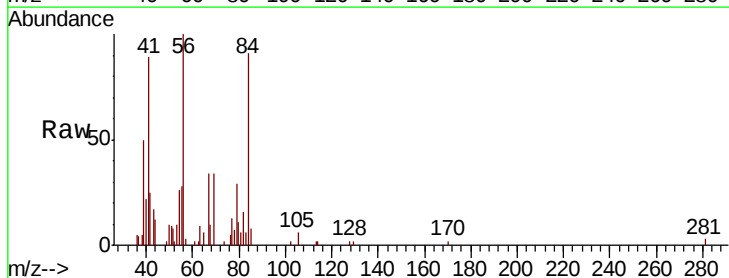
#29
Chloroform
Concen: 0.174 ppbv
RT: 5.29
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId:
SVE-EFF-082222DUP
Acq: 31 Aug 2022 16:24

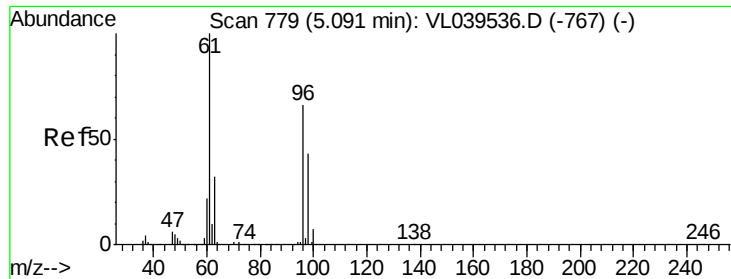
Tot Ion: 83 Resp: 25286
Ion Ratio Lower Upper
83 100
85 51.8 52.8 79.2#



#30
Cyclohexane
Concen: 0.197 ppbv
RT: 6.62 min Scan# 1250
Delta R.T. 0.02 min
Lab File: VL039610.D
Acq: 31 Aug 2022 16:24

Tgt Ion: 84 Resp: 15153
Ion Ratio Lower Upper
84 100
56 130.3 107.7 161.5
41 143.8 67.7 101.5#





#31

cis-1,2-Dichloroethene

Concen: 4.233 ppbv

RT: 5.10 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 31 Aug 2022 16:24 SVE-EFF-082222DUP

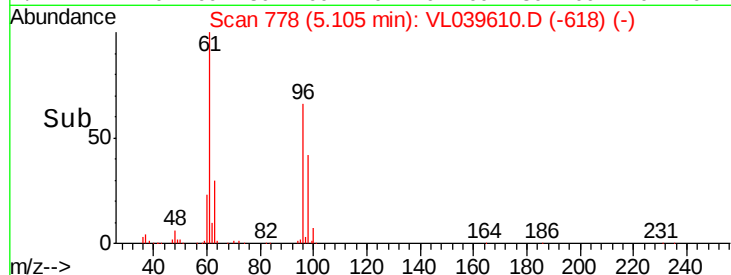
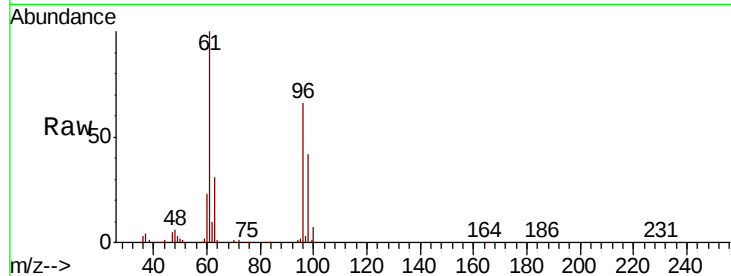
Tot Ion: 61 Resp: 380800

Ion Ratio Lower Upper

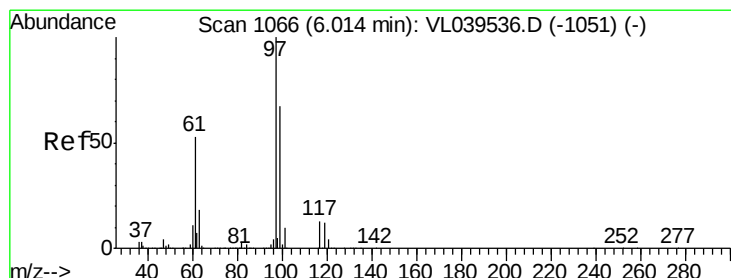
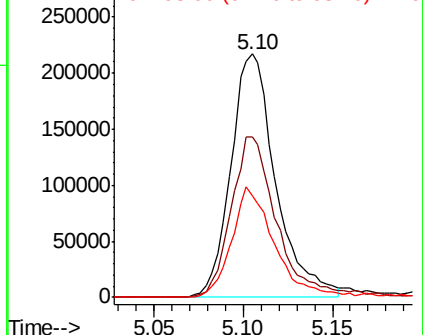
61 100

96 65.9 54.1 81.1

98 41.5 34.6 52.0



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: 0.673 ppbv

RT: 6.03 min Scan# 1065

Delta R.T. 0.01 min

Lab File: VL039610.D

Acq: 31 Aug 2022 16:24

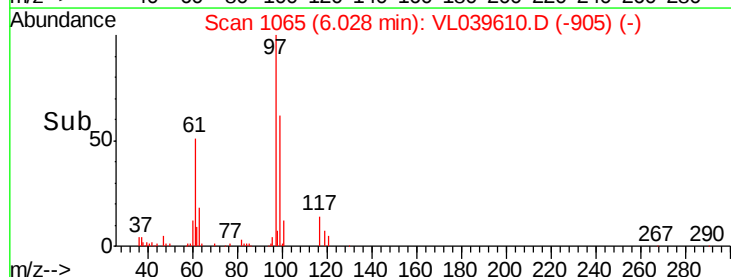
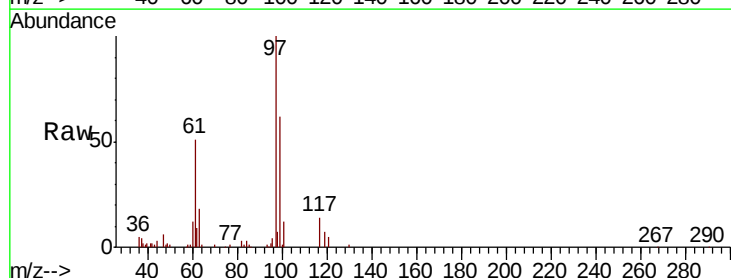
Tgt Ion: 97 Resp: 85974

Ion Ratio Lower Upper

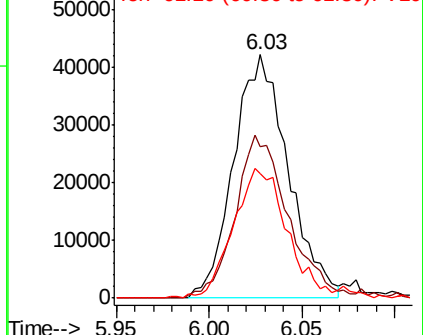
97 100

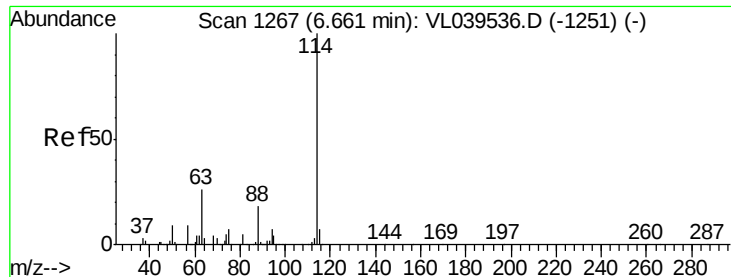
99 66.6 52.3 78.5

61 54.6 40.9 61.3



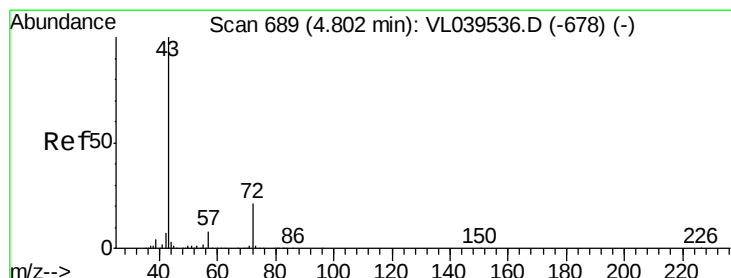
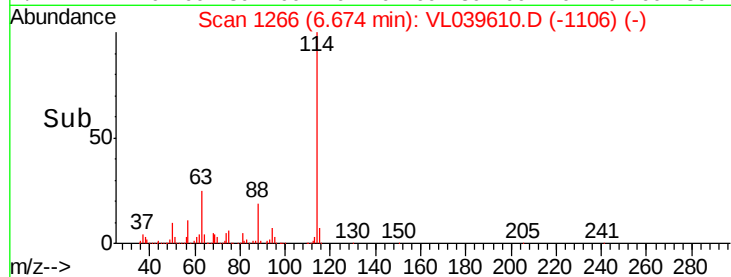
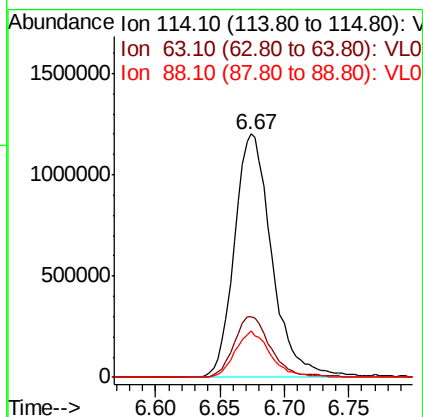
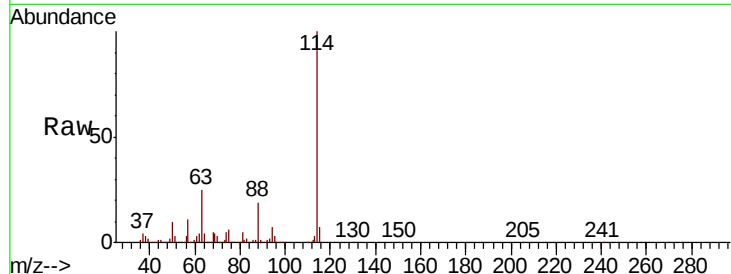
Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0





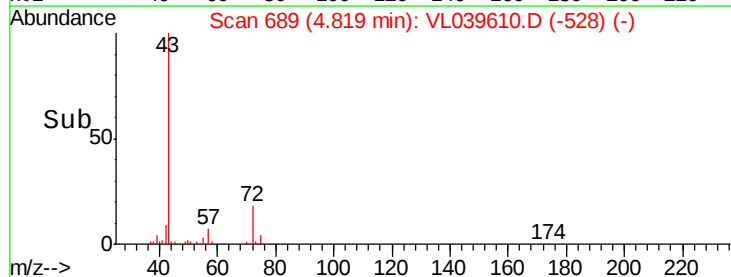
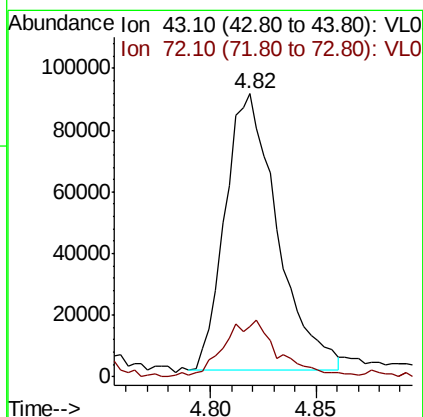
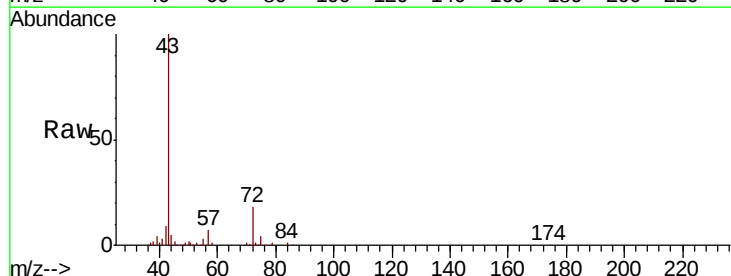
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 6.67
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId:
 SVE-EFF-082222DUP
 Acq: 31 Aug 2022 16:24

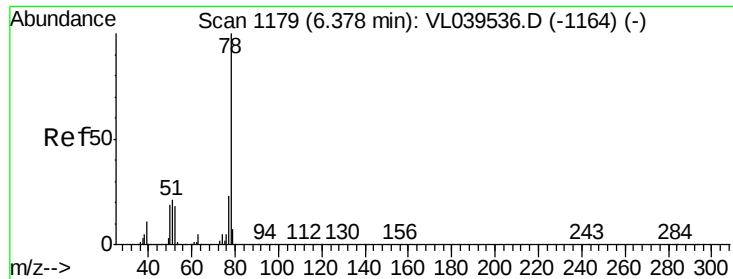
Tot Ion:114 Resp: 2415395
 Ion Ratio Lower Upper
 114 100
 63 25.0 20.2 30.4
 88 18.0 14.5 21.7



#34
 2-Butanone
 Concen: 1.285 ppbv
 RT: 4.82 min Scan# 689
 Delta R.T.: 0.02 min
 Lab File: VL039610.D
 Acq: 31 Aug 2022 16:24

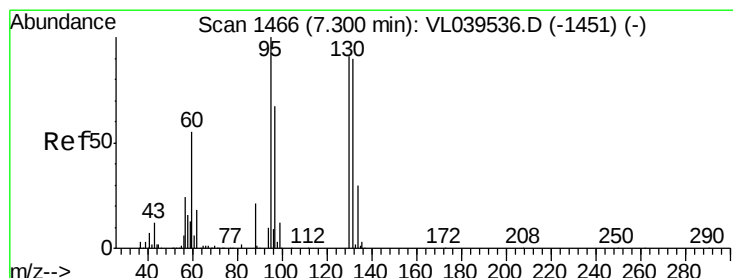
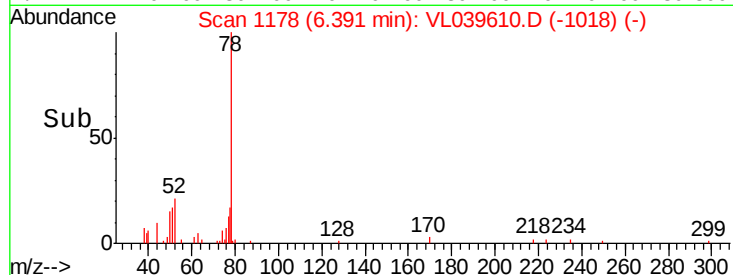
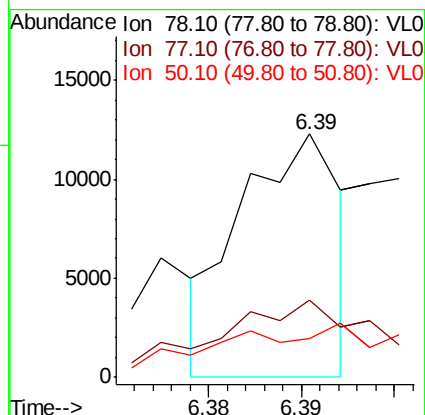
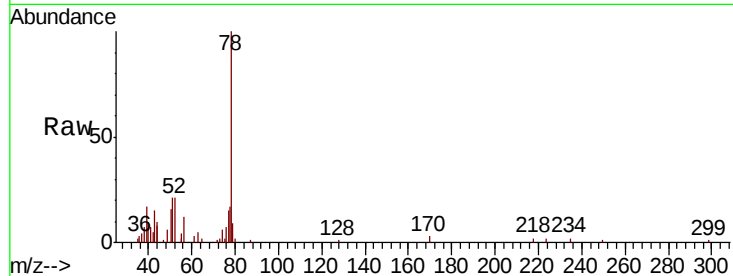
Tgt Ion: 43 Resp: 154246
 Ion Ratio Lower Upper
 43 100
 72 22.5 17.9 26.9





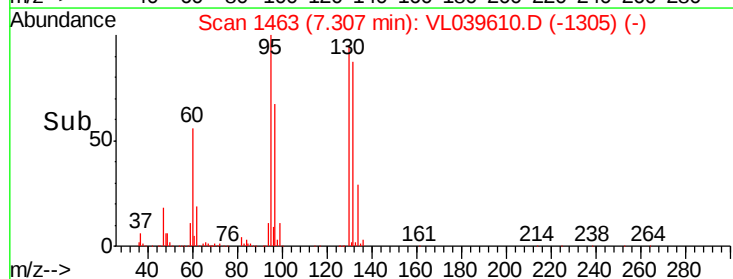
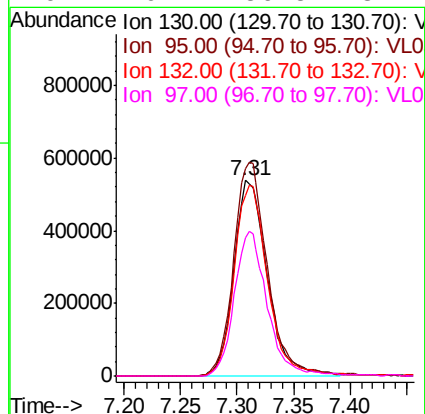
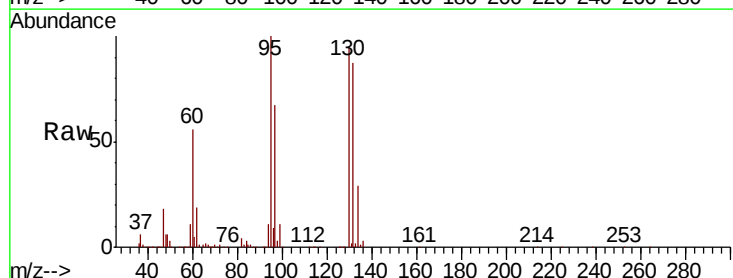
#36
Benzene
Concen: 0.050 ppbv
RT: 6.39
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 31 Aug 2022 16:24

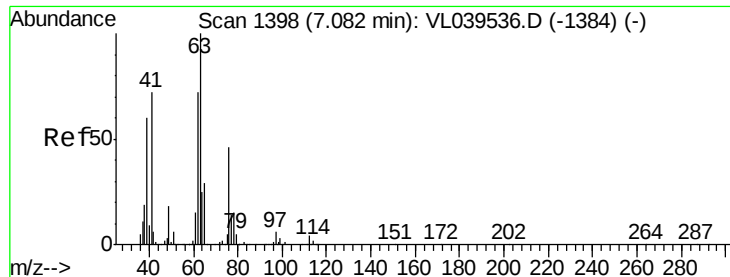
Tot Ion: 78 Resp: 9216
Ion Ratio Lower Upper
78 100
77 34.0 20.3 30.5#
50 12.2 15.5 23.3#



#38
Trichloroethene
Concen: 11.289 ppbv
RT: 7.31 min Scan# 1463
Delta R.T. 0.01 min
Lab File: VL039610.D
Acq: 31 Aug 2022 16:24

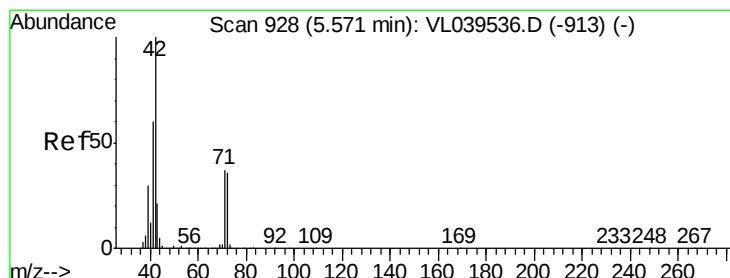
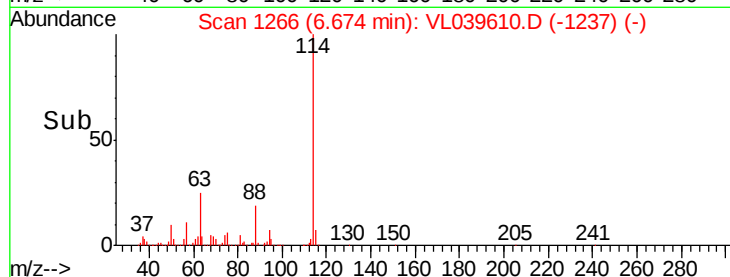
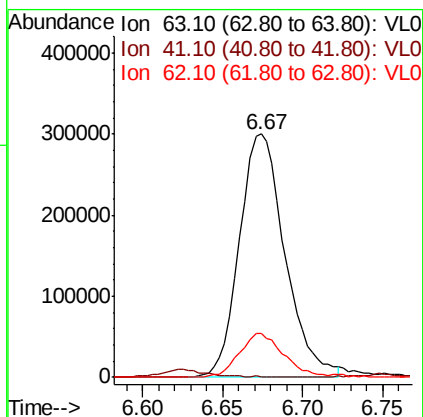
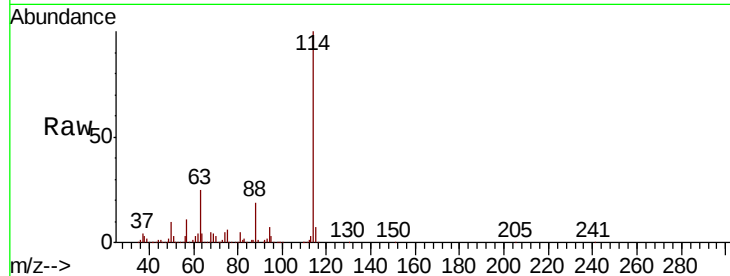
Tgt Ion: 130 Resp: 1113732
Ion Ratio Lower Upper
130 100
95 105.8 87.3 130.9
132 92.2 76.7 115.1
97 70.7 56.5 84.7





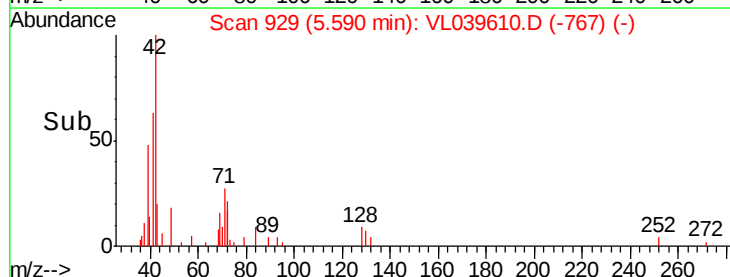
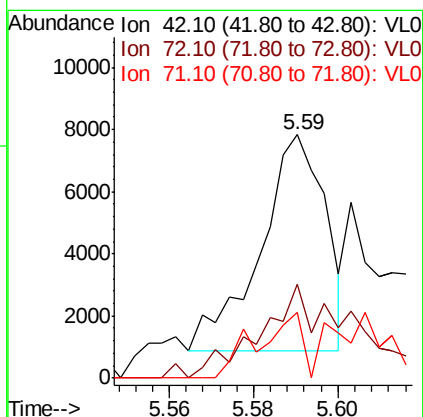
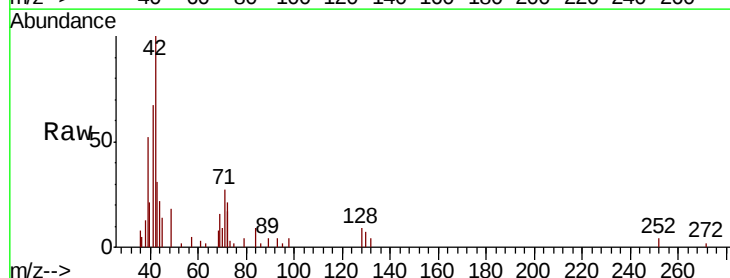
#39
 1,2-Dichloropropane
 Concen: 8.391 ppbv
 RT: 6.67
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SVE-EFF-082222DUP
 Acq: 31 Aug 2022 16:24

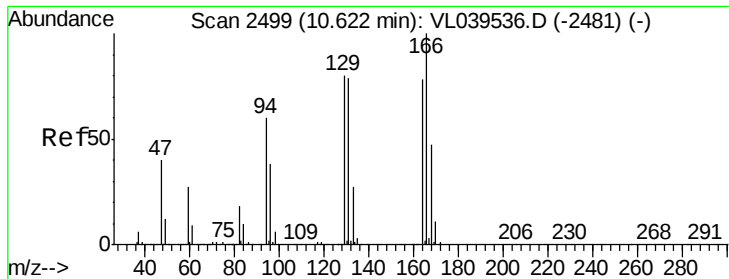
Tot Ion: 63 Resp: 580884
 Ion Ratio Lower Upper
 63 100
 41 0.0 59.6 89.4#
 62 18.0 51.4 77.0#



#41
 Tetrahydrofuran
 Concen: 0.104 ppbv
 RT: 5.59 min Scan# 929
 Delta R.T. 0.02 min
 Lab File: VL039610.D
 Acq: 31 Aug 2022 16:24

Tgt Ion: 42 Resp: 7454
 Ion Ratio Lower Upper
 42 100
 72 67.1 31.8 47.8#
 71 50.1 31.8 47.8#





#52

Tetrachloroethene

Concen: 4.164 ppbv

RT: 10.63

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 31 Aug 2022 10:24

Tot Ion:164 Resp: 290086

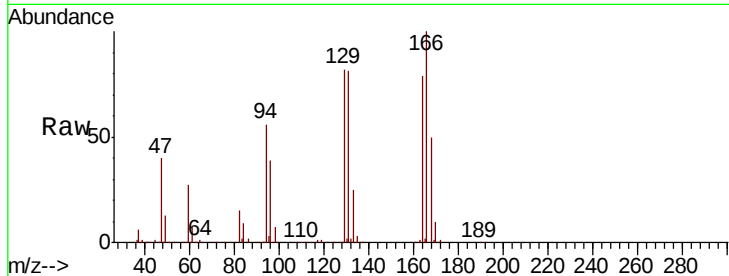
Ion Ratio Lower Upper

164 100

166 126.0 102.2 153.2

129 103.6 85.8 128.8

131 102.3 83.3 124.9

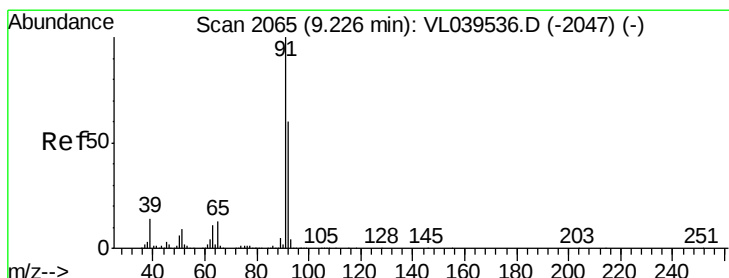
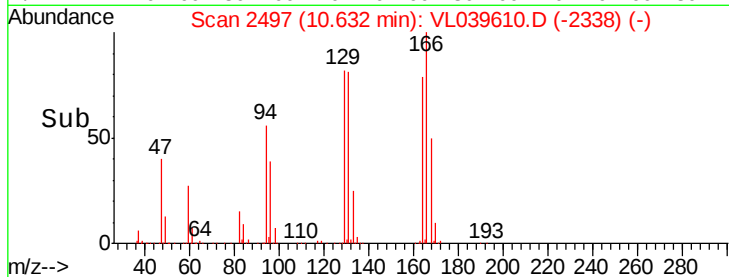
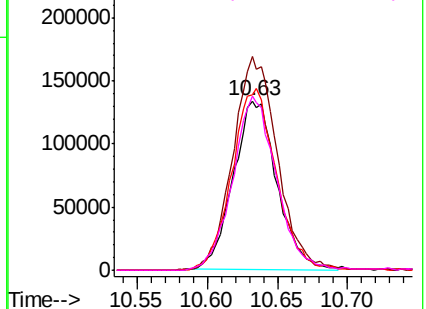


Abundance Ion 163.90 (163.60 to 164.60): V

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: 0.557 ppbv

RT: 9.24 min Scan# 2065

Delta R.T. 0.02 min

Lab File: VL039610.D

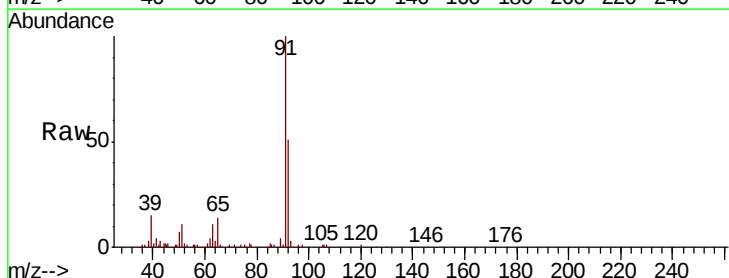
Acq: 31 Aug 2022 16:24

Tgt Ion: 91 Resp: 114839

Ion Ratio Lower Upper

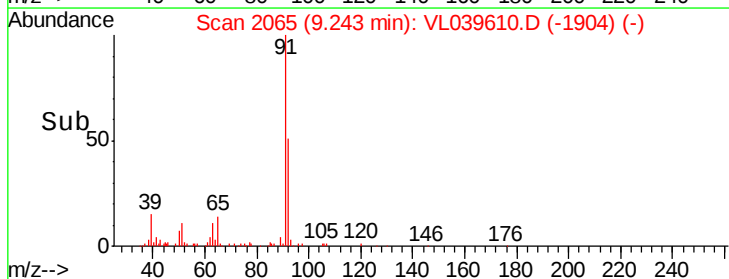
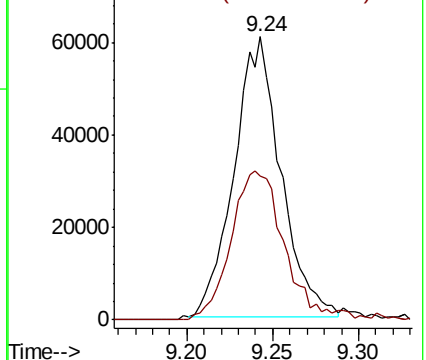
91 100

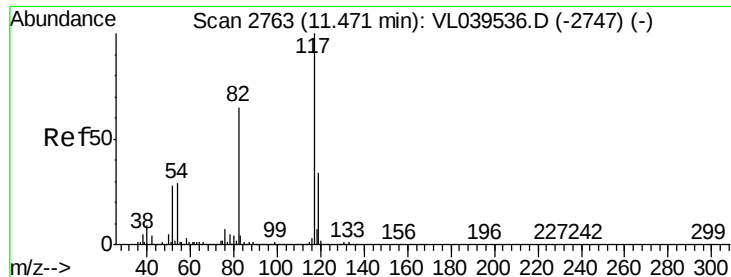
92 61.2 48.2 72.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

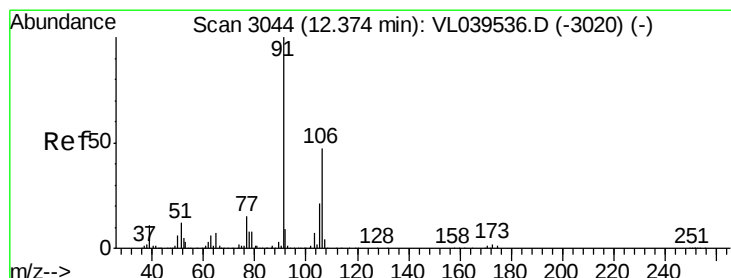
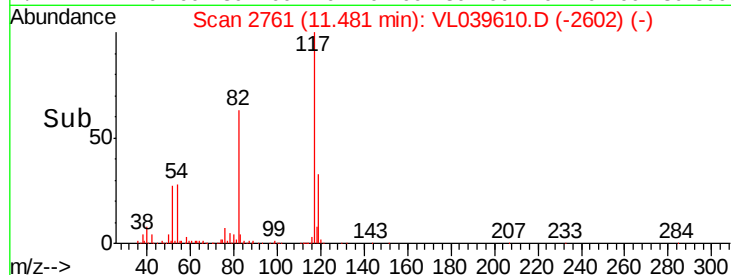
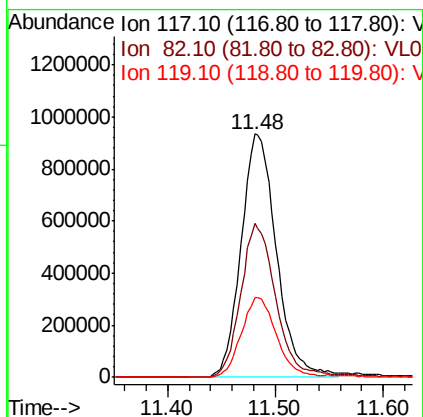
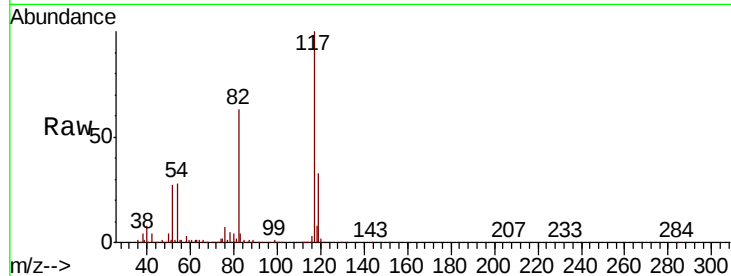
Ion 92.10 (91.80 to 92.80): VL0





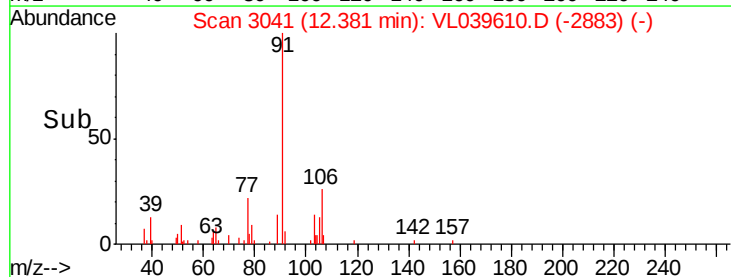
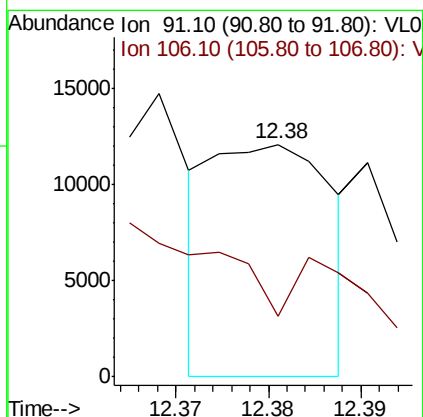
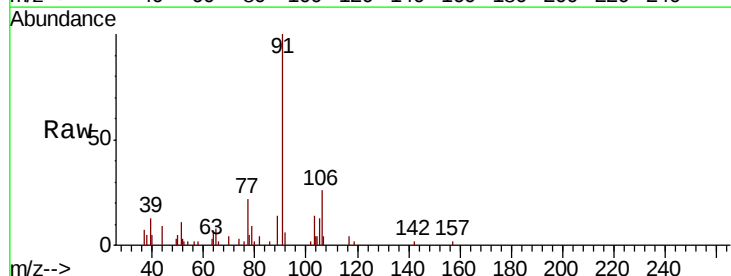
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.48 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
SVE-EFF-082222DUP
Acq: 31 Aug 2022 10:24

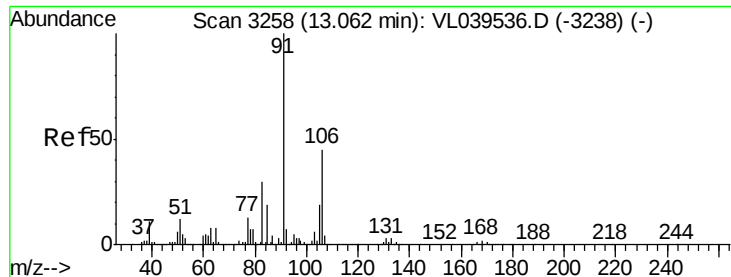
Tot Ion:117 Resp: 2123473
Ion Ratio Lower Upper
117 100
82 63.6 50.8 76.2
119 33.7 24.1 36.1



#59
m/p-Xylene
Concen: 0.049 ppbv
RT: 12.38 min Scan# 3041
Delta R.T.: 0.01 min
Lab File: VL039610.D
Acq: 31 Aug 2022 16:24

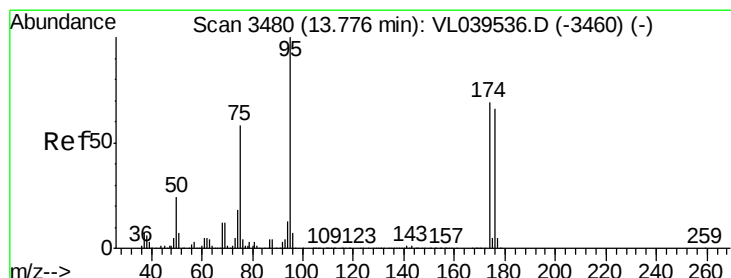
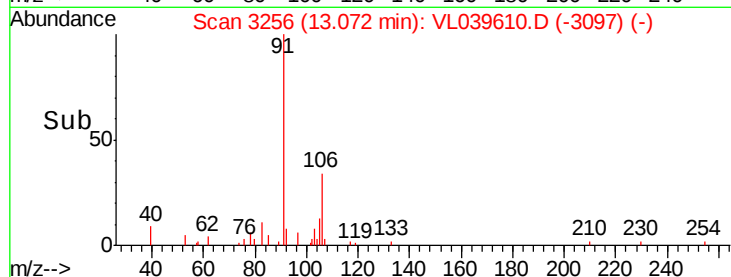
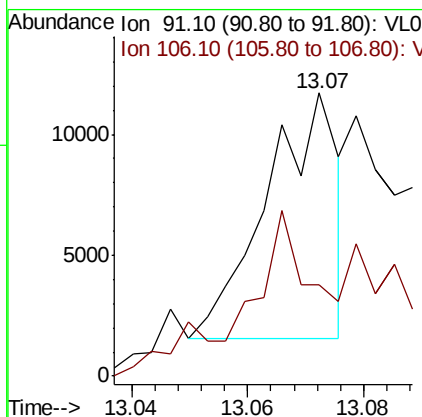
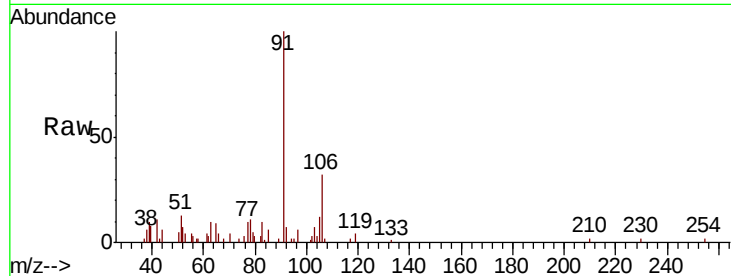
Tgt Ion: 91 Resp: 10809
Ion Ratio Lower Upper
91 100
106 0.0 35.4 53.2#





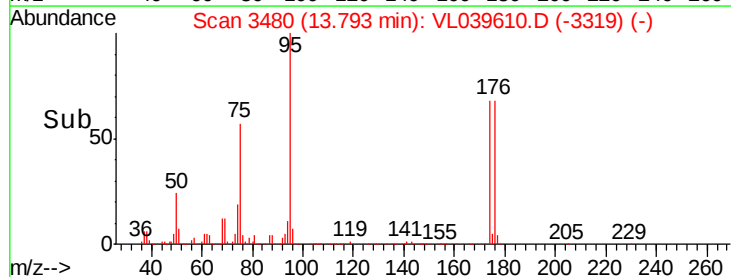
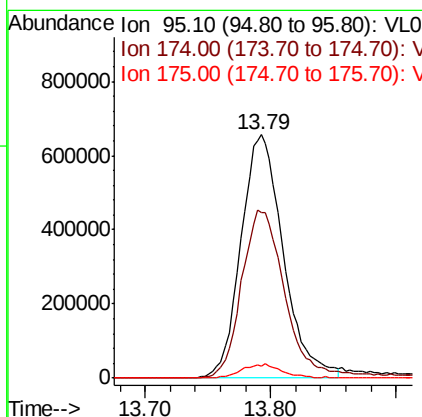
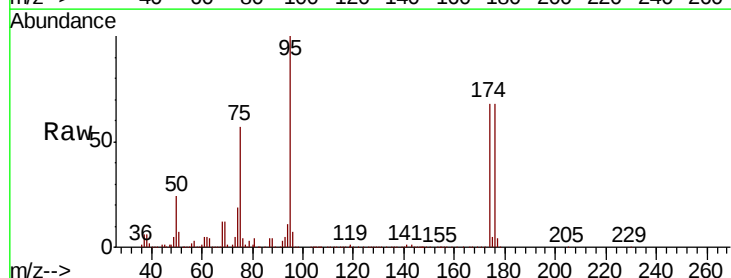
#60
o-Xylene
Concen: 0.041 ppbv
RT: 13.07 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SVE-EFF-082222DUP
Acq: 31 Aug 2022 16:24

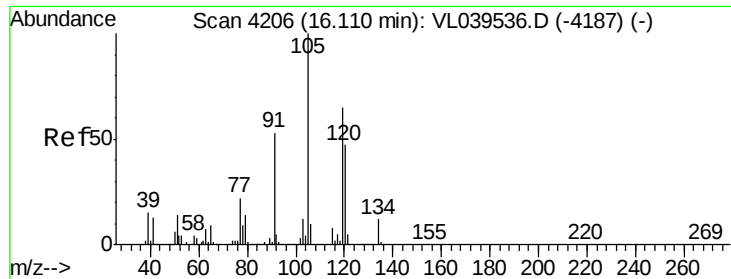
Tot Ion: 91 Resp: 8675
Ion Ratio Lower Upper
91 100
106 128.2 22.4 67.3#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.634 ppbv
RT: 13.79 min Scan# 3480
Delta R.T. 0.02 min
Lab File: VL039610.D
Acq: 31 Aug 2022 16:24

Tgt Ion: 95 Resp: 1543435
Ion Ratio Lower Upper
95 100
174 73.6 55.9 83.9
175 5.6 4.2 6.4





#74
 1,2,4-Trimethylbenzene
 Concen: 0.063 ppbv
 RT: 16.13
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 SVE-EFF-082222DUP
 Acq: 31 Aug 2022 18:24

Tot Ion:	105	Resp:	15750
Ion	Ratio	Lower	Upper
105	100		
120	39.4	39.5	59.3#
91	1.9	39.2	58.8#
77	14.3	17.2	25.8#

