

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL041122\
 Data File : VL038886.D
 Acq On : 12 Apr 2022 9:18
 Operator : SY/AP
 Sample : N2339-02
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SVE-INFLUENT

Quant Time: Apr 13 06:42:36 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL040522AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Apr 06 06:12:53 2022
 QLast Update : Wed Apr 06 06:12:53 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1101198	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3007187	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2666103	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	2093376	10.35	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.50%

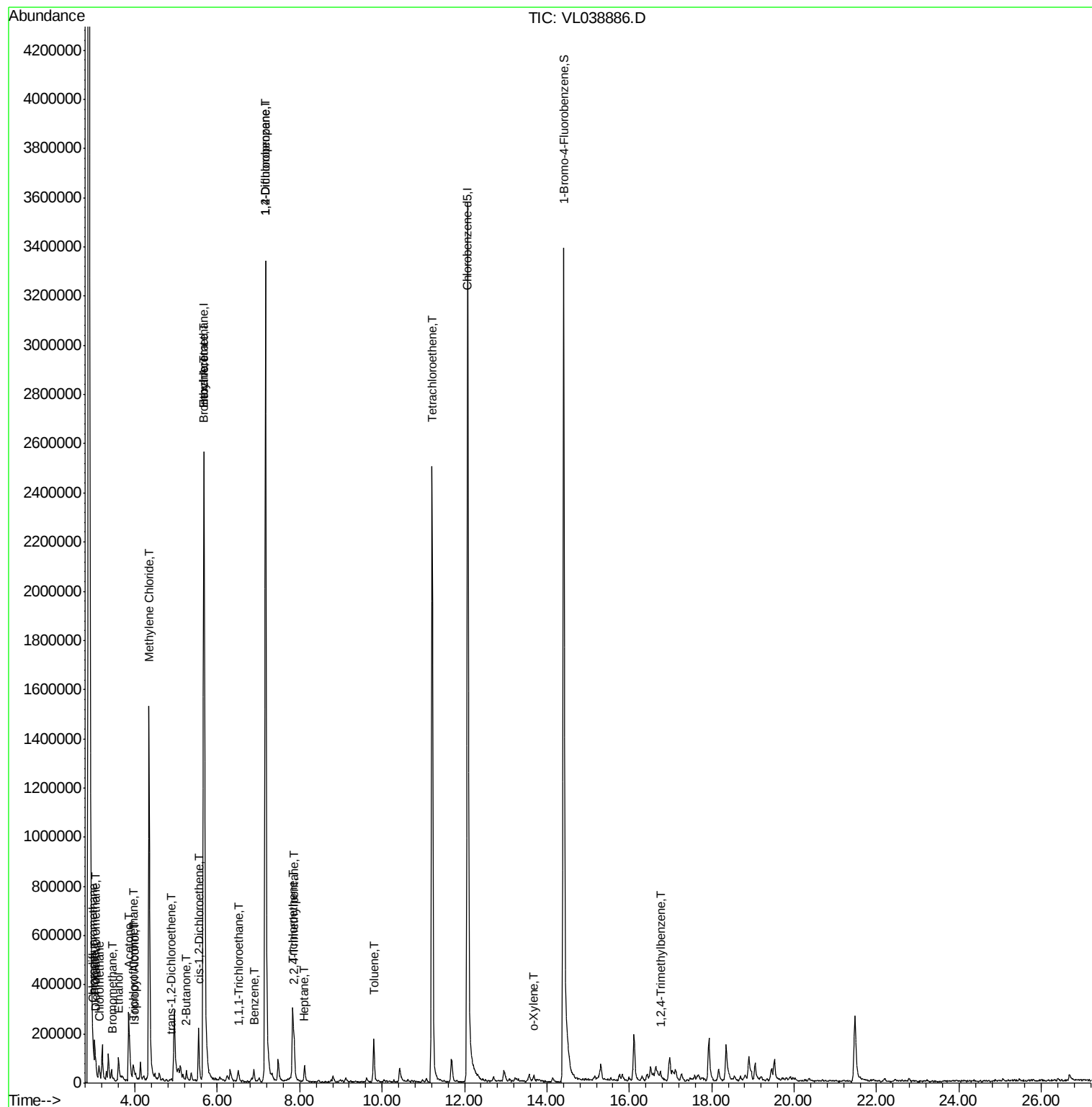
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	50920	0.326	ppbv 97
3) Chlorodifluoromethane	2.99	51	93988	0.699	ppbv # 78
4) Chloromethane	3.14	50	22763	0.327	ppbv # 85
6) Bromomethane	3.47	94	1201	0.039	ppbv # 78
9) Propene	3.02	41	14480	0.204	ppbv # 16
10) Heptane	8.11	43	16956	0.095	ppbv # 28
11) Trichlorofluoromethane	3.95	101	33111	0.264	ppbv 93
13) Ethanol	3.60	45	116971	27.070	ppbv # 100
15) Acetone	3.85	43	370893	3.383	ppbv 99
19) Isopropyl Alcohol	3.99	45	13077	0.233	ppbv # 100
20) Methylene Chloride	4.34	84	624645	15.710	ppbv 99
22) trans-1,2-Dichloroethene	4.88	96	1488	0.034	ppbv # 61
25) Ethyl Acetate	5.68	43	549194	1.974	ppbv # 76
26) Hexane	5.68	57	779747	6.158	ppbv # 40
31) cis-1,2-Dichloroethene	5.55	61	132402	1.137	ppbv 96
32) 1,1,1-Trichloroethane	6.50	97	11608	0.065	ppbv # 22
34) 2-Butanone	5.25	43	47857	0.403	ppbv 92
36) Benzene	6.89	78	22148	0.081	ppbv 95
38) Trichloroethene	7.83	130	48682	0.434	ppbv 97
39) 1,2-Dichloropropane	7.17	63	727362	6.951	ppbv # 26
44) 2,2,4-Trimethylpentane	7.86	57	159888	0.345	ppbv # 91
52) Tetrachloroethene	11.21	164	681342	7.130	ppbv 98
53) Toluene	9.80	91	126548	0.401	ppbv 100
60) o-Xylene	13.68	91	9804	0.031	ppbv # 28
74) 1,2,4-Trimethylbenzene	16.76	105	12432	0.035	ppbv # 60

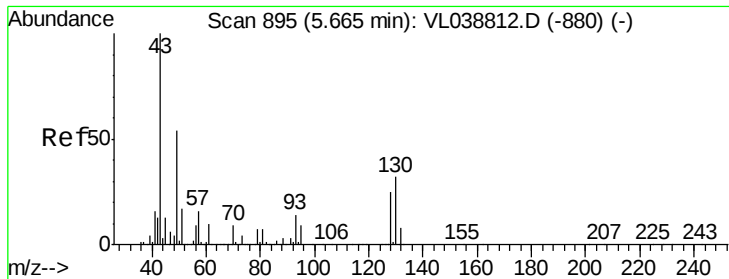
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL041122\
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL040522AIR.M
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 12 Apr 2022 9:18 SVE-INFLUENT

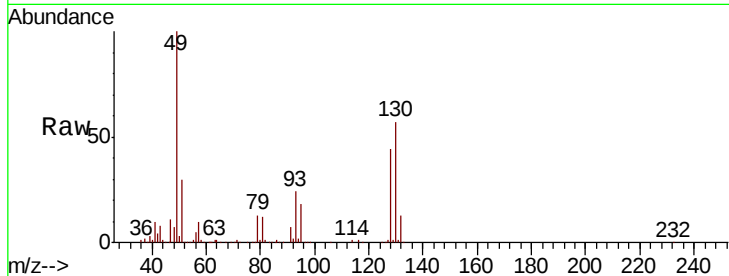
Tot Ion: 49 Resp: 1101198

Ion Ratio Lower Upper

49 100

128 49.1 24.1 72.3

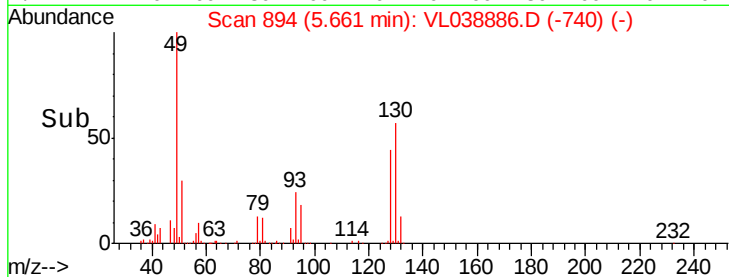
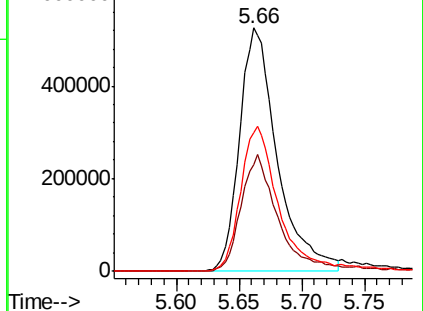
130 62.5 30.9 92.8



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: 0.326 ppbv

RT: 3.05 min Scan# 82

Delta R.T. -0.00 min

Lab File: VL038886.D

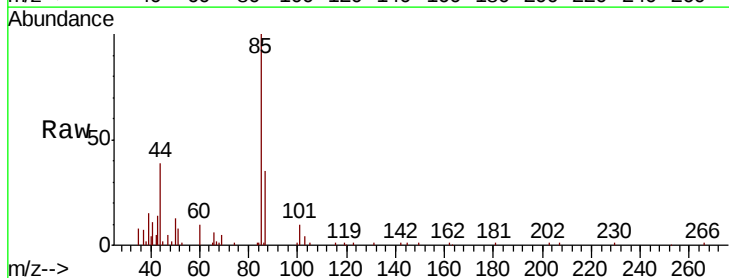
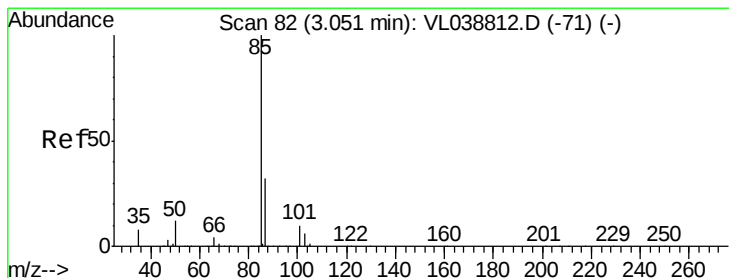
Acq: 12 Apr 2022 9:18

Tgt Ion: 85 Resp: 50920

Ion Ratio Lower Upper

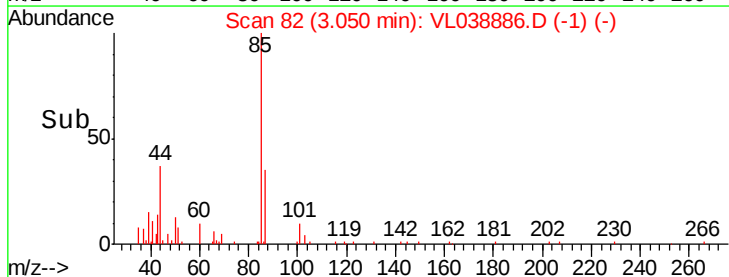
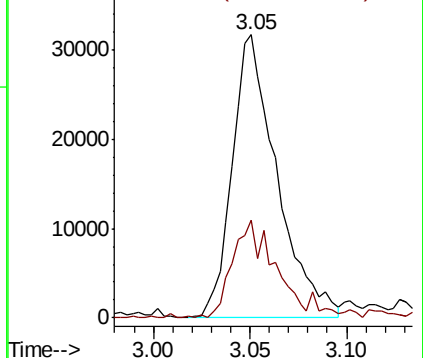
85 100

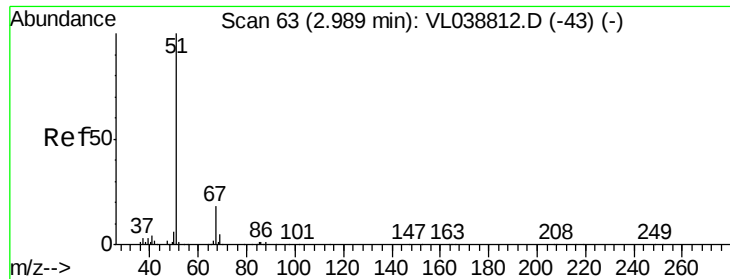
87 33.9 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

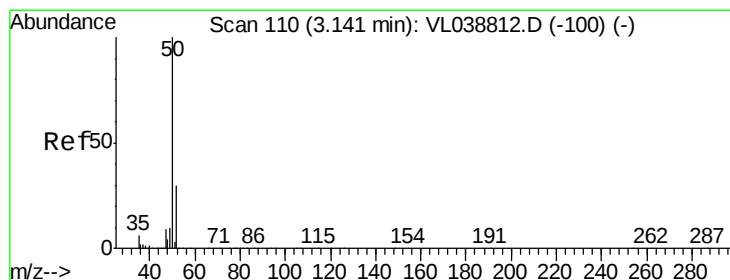
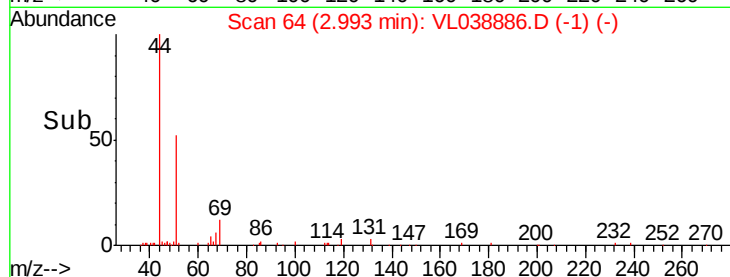
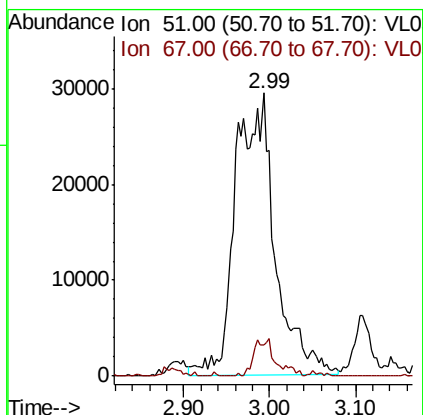
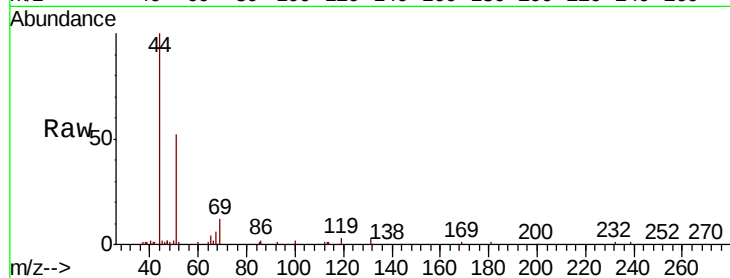
Ion 87.00 (86.70 to 87.70): VL0





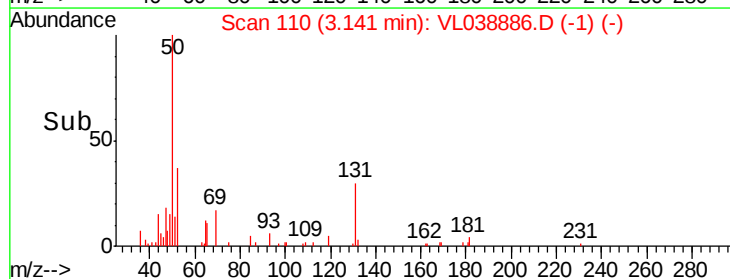
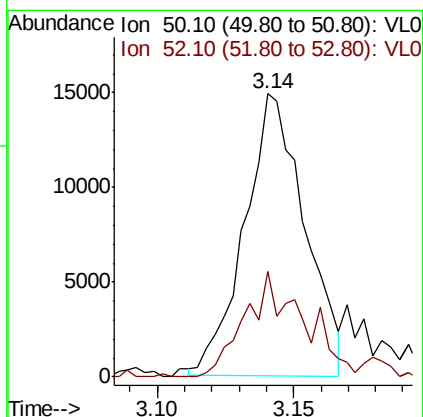
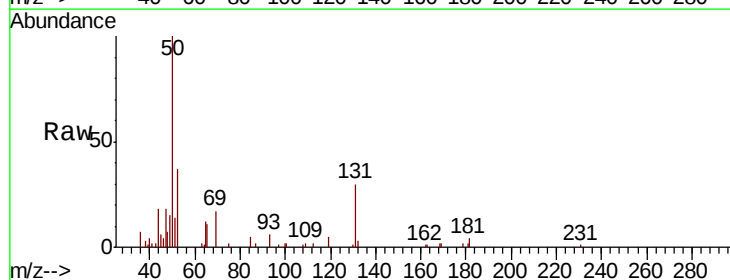
#3
 Chlorodifluoromethane
 Concen: 0.699 ppbv
 RT: 2.99
 Delta R.T. MSVOA.L
 Lab File: ClientSampleId :
 SVE-INFLUENT
 Acq: 12 Apr 2022 9:18

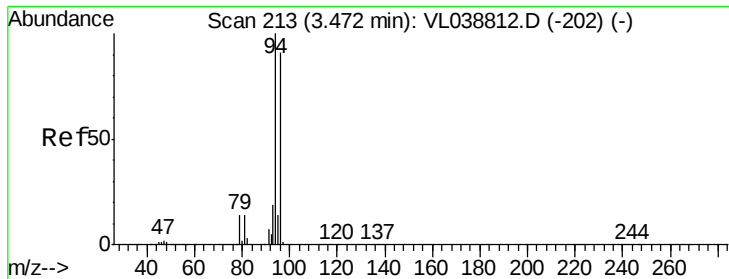
Tot Ion: 51 Resp: 93988
 Ion Ratio Lower Upper
 51 100
 67 7.3 13.4 20.0#



#4
 Chloromethane
 Concen: 0.327 ppbv
 RT: 3.14 min Scan# 110
 Delta R.T. -0.00 min
 Lab File: VL038886.D
 Acq: 12 Apr 2022 9:18

Tgt Ion: 50 Resp: 22763
 Ion Ratio Lower Upper
 50 100
 52 38.5 24.3 36.5#





#6

Bromomethane

Concen: 0.039 ppbv

RT: 3.47 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

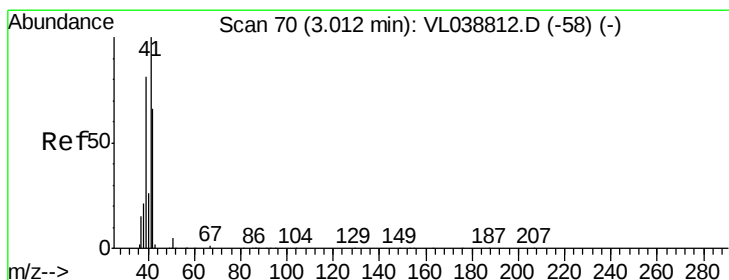
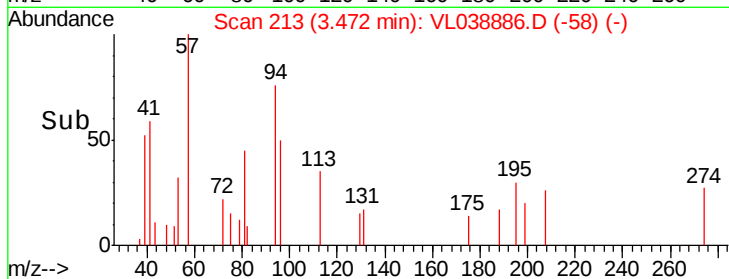
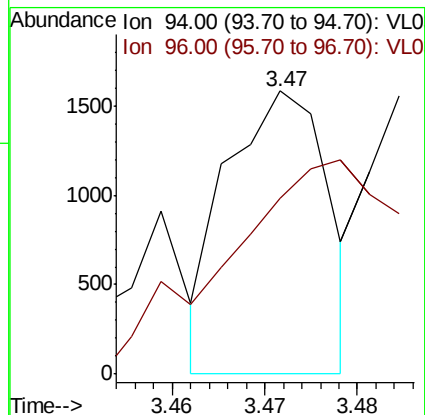
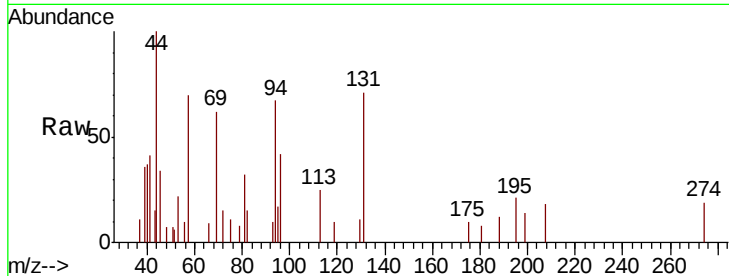
Acq: 12 Apr 2022 9:18 SVE-INFLUENT

Tot Ion: 94 Resp: 1201

Ion Ratio Lower Upper

94 100

96 70.9 73.2 109.8#



#9

Propene

Concen: 0.204 ppbv

RT: 3.02 min Scan# 71

Delta R.T. 0.00 min

Lab File: VL038886.D

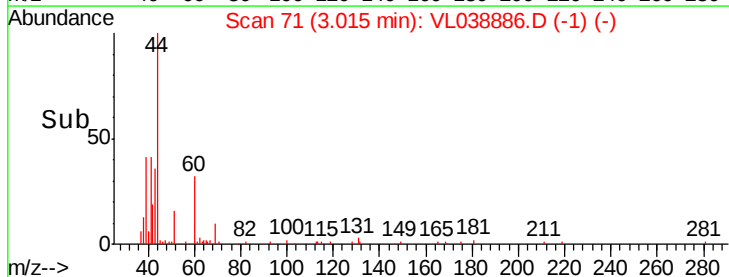
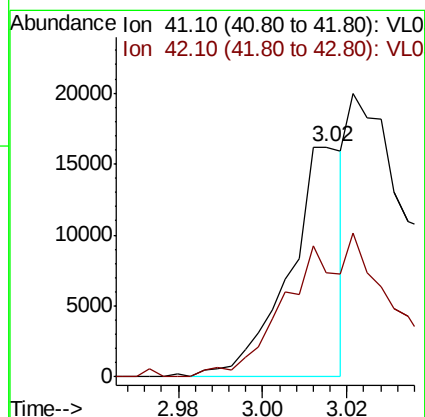
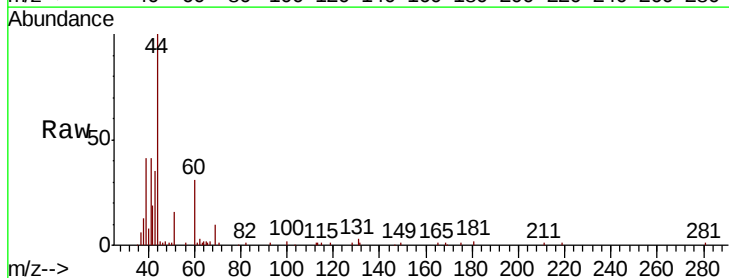
Acq: 12 Apr 2022 9:18

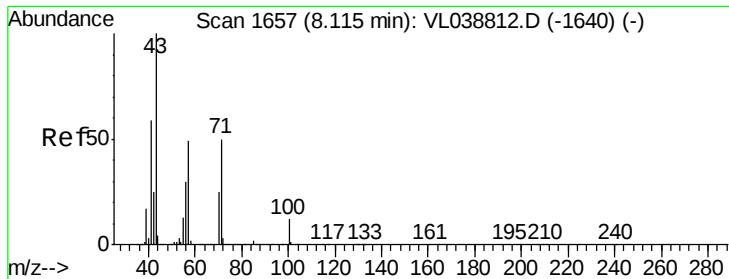
Tgt Ion: 41 Resp: 14480

Ion Ratio Lower Upper

41 100

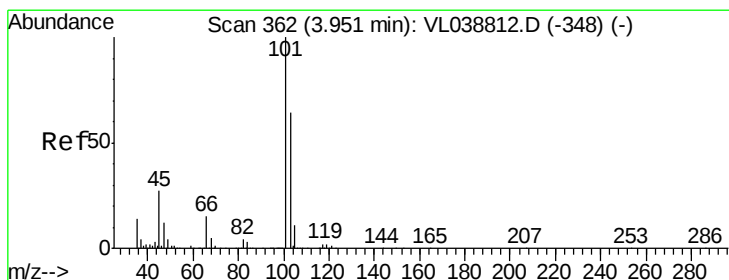
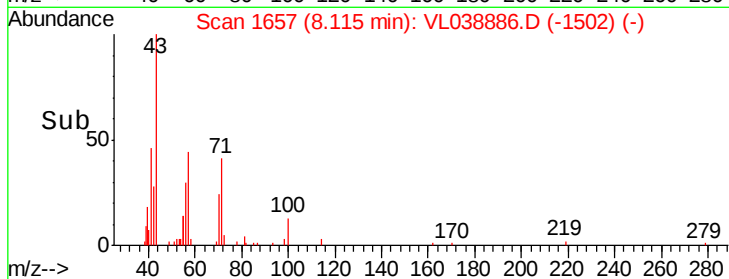
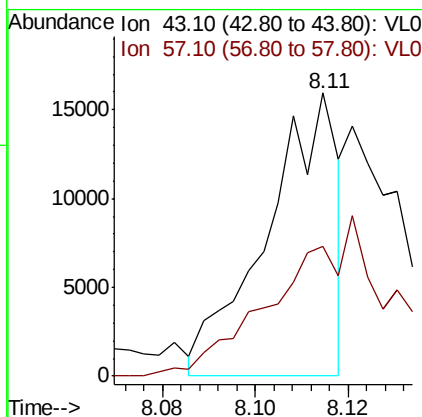
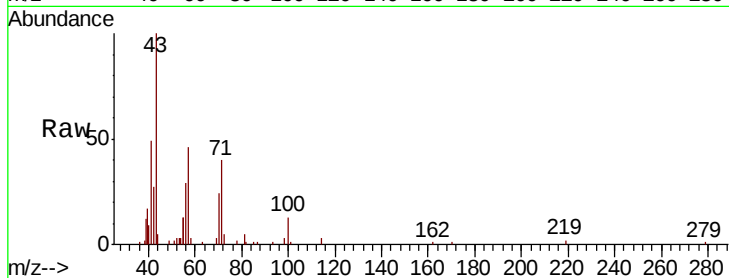
42 0.0 54.2 81.4#





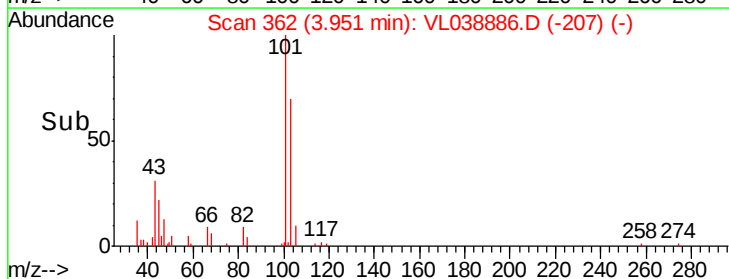
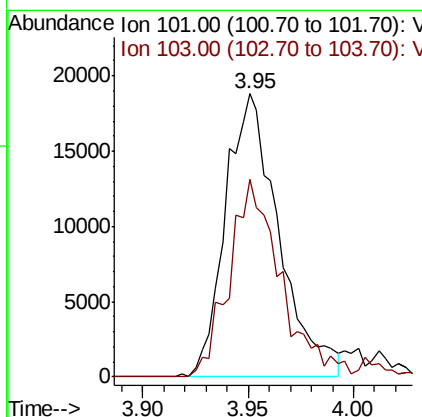
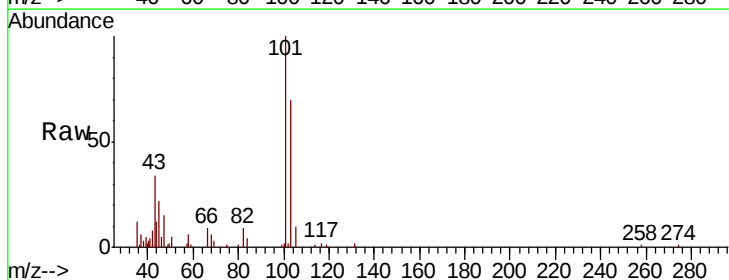
#10
 Heptane
 Concen: 0.095 ppbv
 RT: 8.11
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 Acq: 12 Apr 2022 9:18

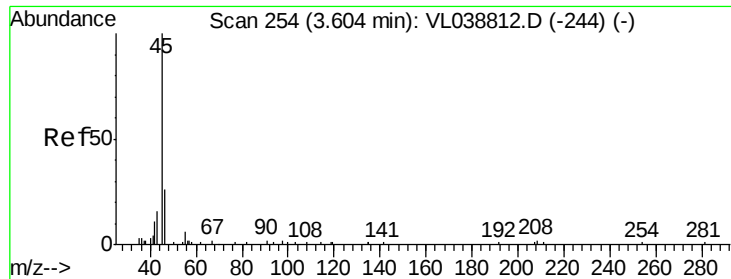
Tot Ion: 43 Resp: 16956
 Ion Ratio Lower Upper
 43 100
 57 0.0 39.3 58.9#



#11
 Trichlorofluoromethane
 Concen: 0.264 ppbv
 RT: 3.95 min Scan# 362
 Delta R.T. -0.00 min
 Lab File: VL038886.D
 Acq: 12 Apr 2022 9:18

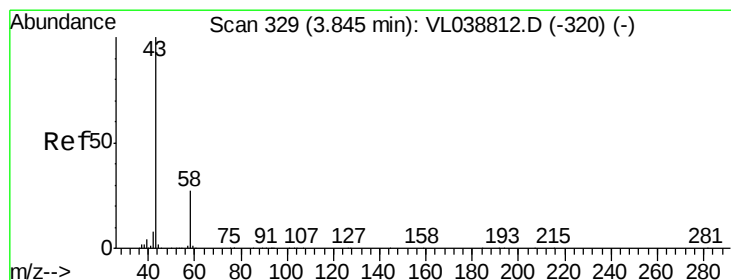
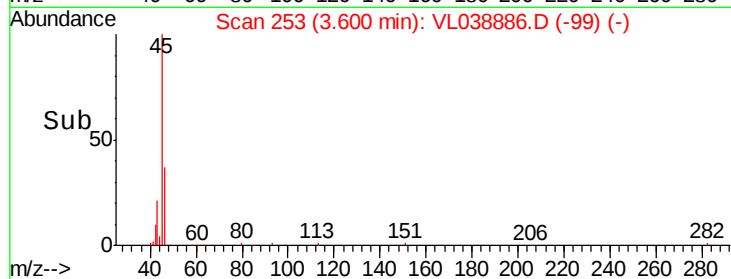
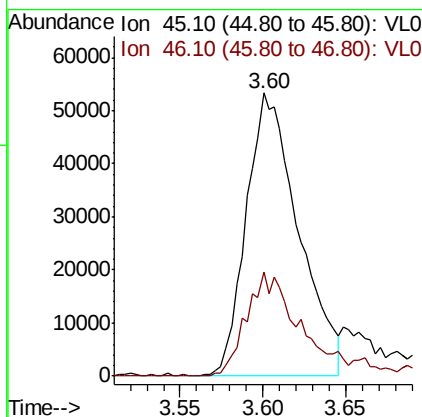
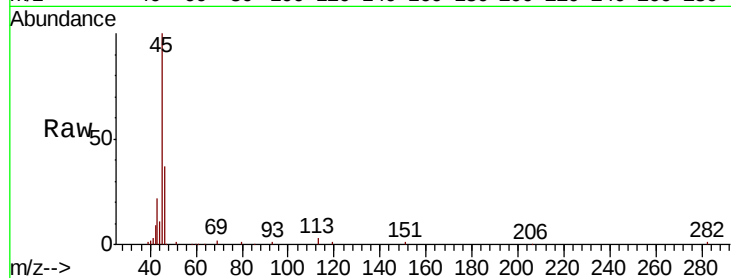
Tgt Ion:101 Resp: 33111
 Ion Ratio Lower Upper
 101 100
 103 69.9 51.4 77.0





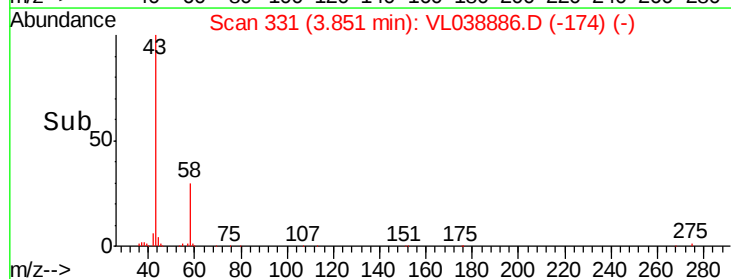
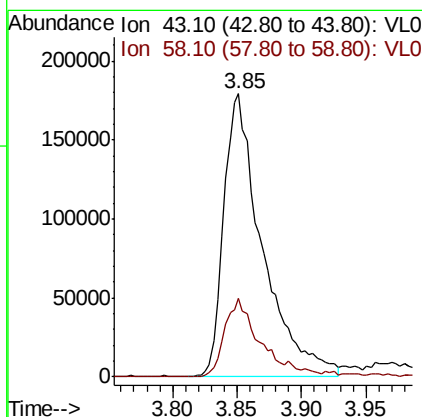
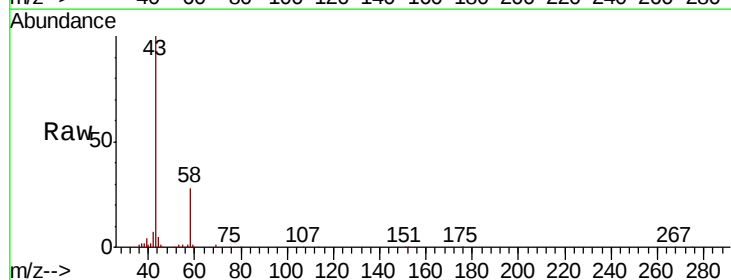
#13
 Ethanol
 Concen: 27.070 ppbv
 RT: 3.60
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 12 Apr 2022 9:18

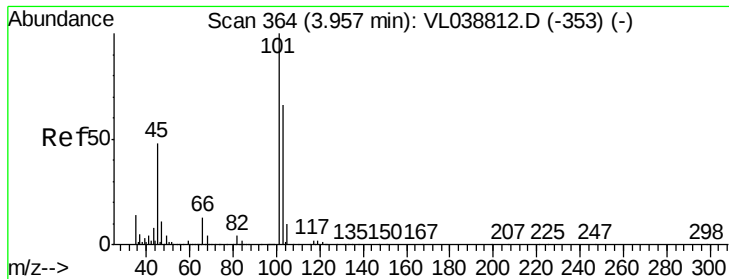
Tot Ion: 45 Resp: 116971
 Ion Ratio Lower Upper
 45 100
 46 39.8 0.0 0.0#



#15
 Acetone
 Concen: 3.383 ppbv
 RT: 3.85 min Scan# 331
 Delta R.T. 0.01 min
 Lab File: VL038886.D
 Acq: 12 Apr 2022 9:18

Tgt Ion: 43 Resp: 370893
 Ion Ratio Lower Upper
 43 100
 58 27.7 22.5 33.7





#19

Isopropyl Alcohol

Concen: 0.233 ppbv

RT: 3.99 Instrument:

Delta R.T. MSVOA.L

Lab File: ClientSampleId:

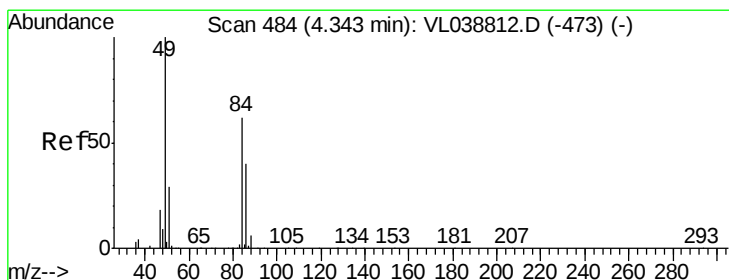
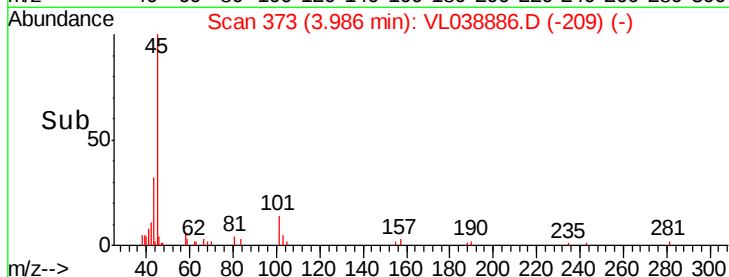
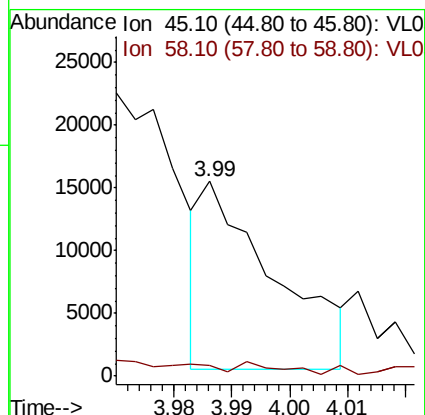
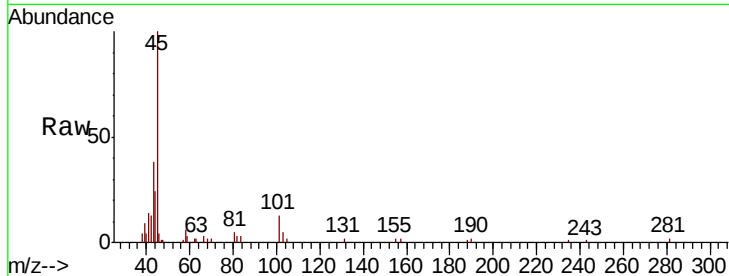
Acq: 12 Apr 2022 9:18 SVE-INFLUENT

Tot Ion: 45 Resp: 13077

Ion Ratio Lower Upper

45 100

58 0.0 0.0 0.0



#20

Methylene Chloride

Concen: 15.710 ppbv

RT: 4.34 min Scan# 484

Delta R.T. -0.00 min

Lab File: VL038886.D

Acq: 12 Apr 2022 9:18

Tgt Ion: 84 Resp: 624645

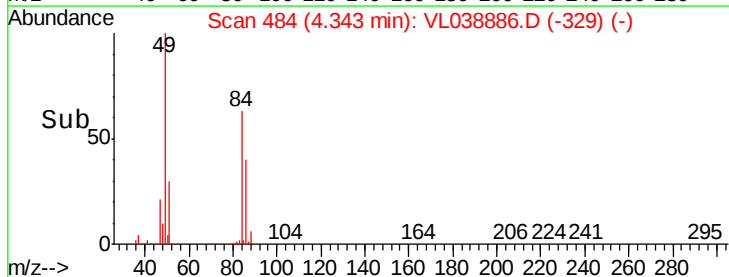
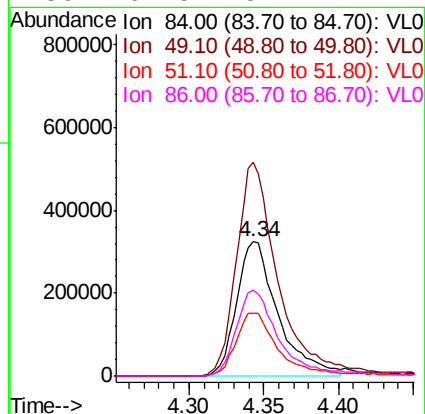
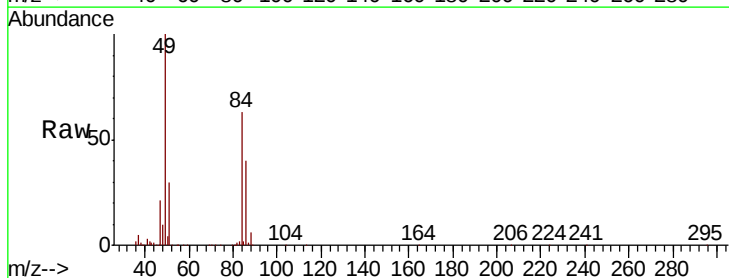
Ion Ratio Lower Upper

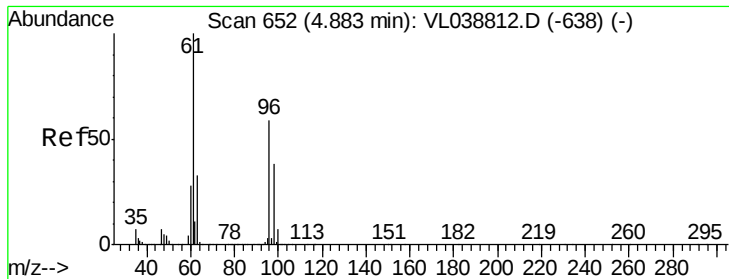
84 100

49 159.3 129.4 194.0

51 47.1 37.4 56.2

86 64.5 51.4 77.2





#22

trans-1,2-Dichloroethene

Concen: 0.034 ppbv

RT: 4.88 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 12 Apr 2022 9:18

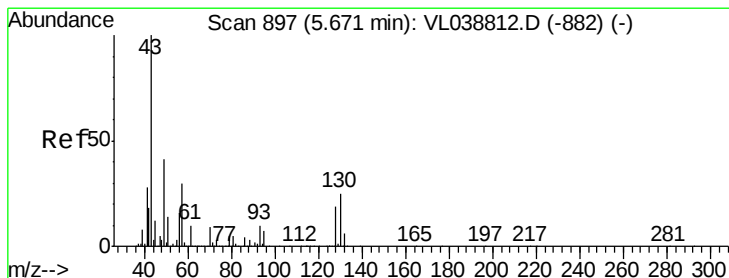
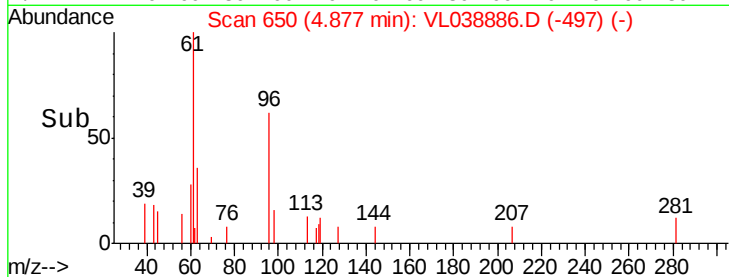
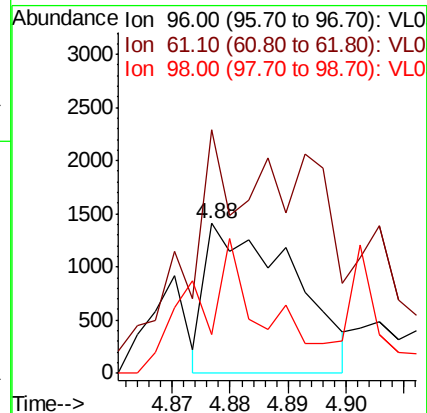
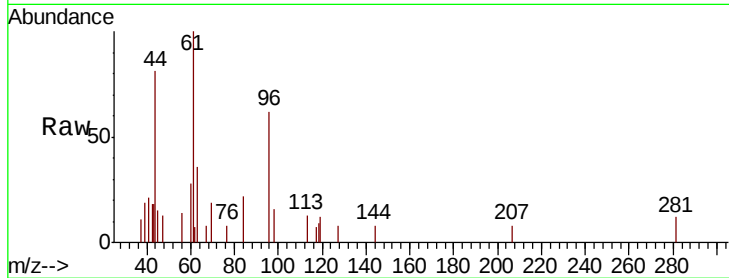
Tot Ion: 96 Resp: 1488

Ion Ratio Lower Upper

96 100

61 134.1 134.8 202.2#

98 5.6 51.9 77.9#



#25

Ethyl Acetate

Concen: 1.974 ppbv

RT: 5.68 min Scan# 900

Delta R.T. 0.01 min

Lab File: VL038886.D

Acq: 12 Apr 2022 9:18

Tgt Ion: 43 Resp: 549194

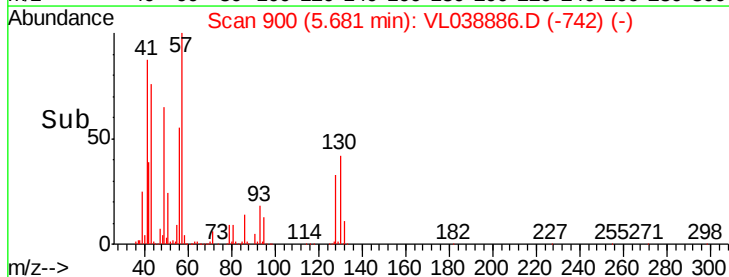
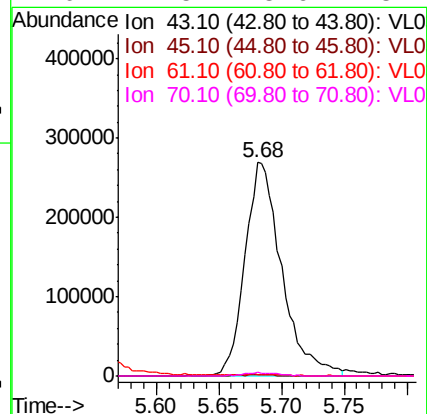
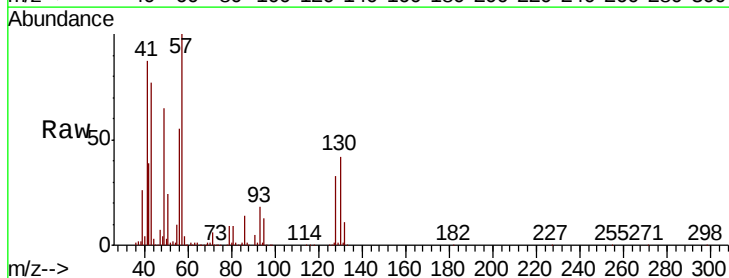
Ion Ratio Lower Upper

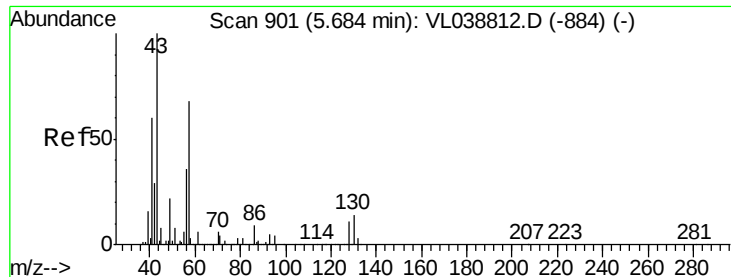
43 100

45 0.3 8.4 12.6#

61 0.0 7.9 11.9#

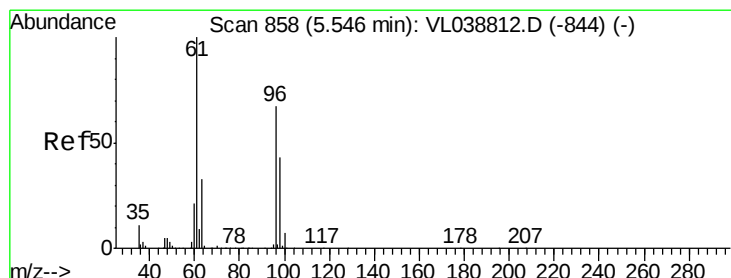
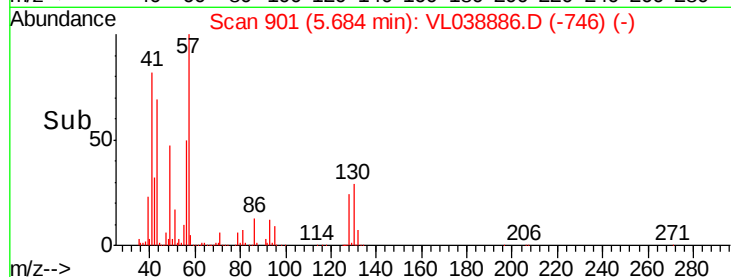
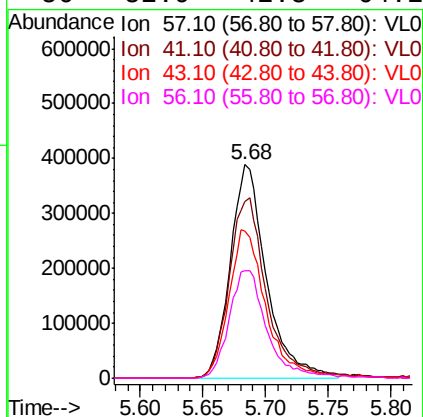
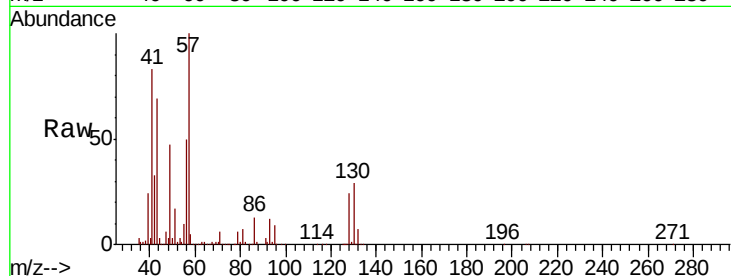
70 1.5 5.6 8.4#





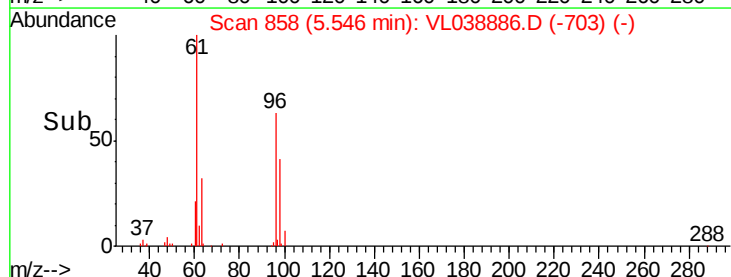
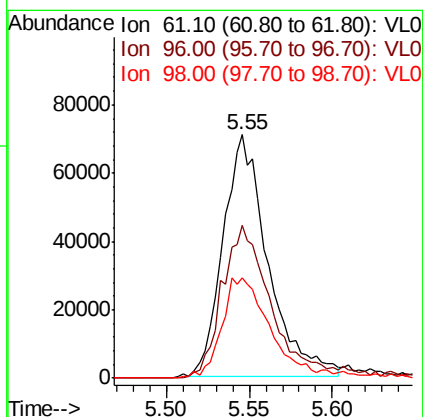
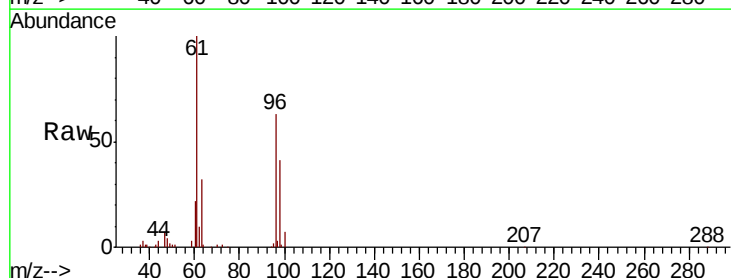
#26
Hexane
Concen: 6.158 ppbv
RT: 5.68
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 12 Apr 2022 9:18

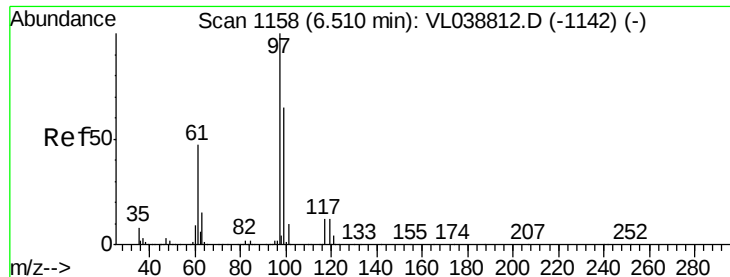
Tot Ion:	57	Resp:	779747
Ion	Ratio	Lower	Upper
57	100		
41	88.3	72.0	108.0
43	72.1	186.6	280.0
56	52.9	42.8	64.2



#31
cis-1,2-Dichloroethene
Concen: 1.137 ppbv
RT: 5.55 min Scan# 858
Delta R.T. -0.00 min
Lab File: VL038886.D
Acq: 12 Apr 2022 9:18

Tgt Ion:	61	Resp:	132402
Ion	Ratio	Lower	Upper
61	100		
96	62.3	53.4	80.0
98	41.1	34.2	51.4





#32

1,1,1-Trichloroethane

Concen: 0.065 ppbv

RT: 6.50 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 12 Apr 2022 9:18 SVE-INFLUENT

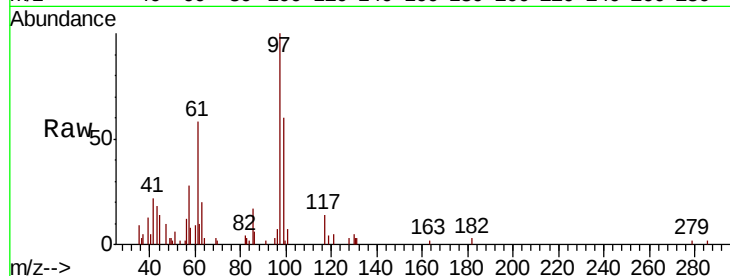
Tot Ion: 97 Resp: 11608

Ion Ratio Lower Upper

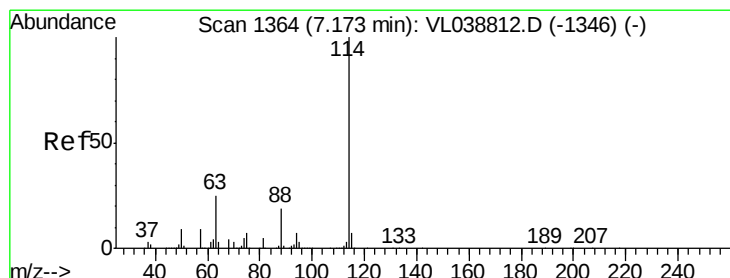
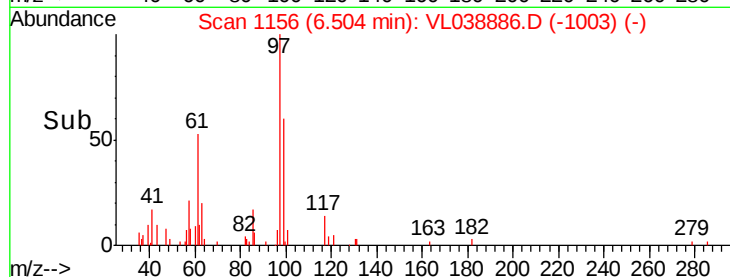
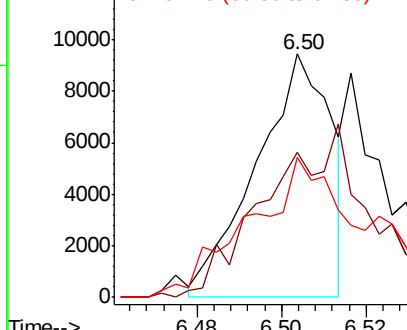
97 100

99 0.0 52.4 78.6#

61 96.0 38.6 57.8#



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: 7.17 min Scan# 1364

Delta R.T. -0.00 min

Lab File: VL038886.D

Acq: 12 Apr 2022 9:18

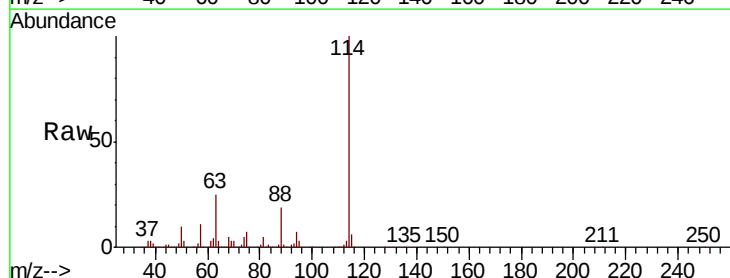
Tgt Ion: 114 Resp: 3007187

Ion Ratio Lower Upper

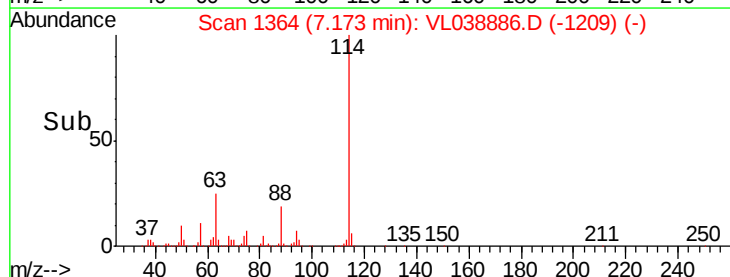
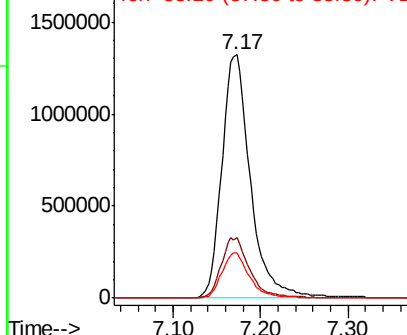
114 100

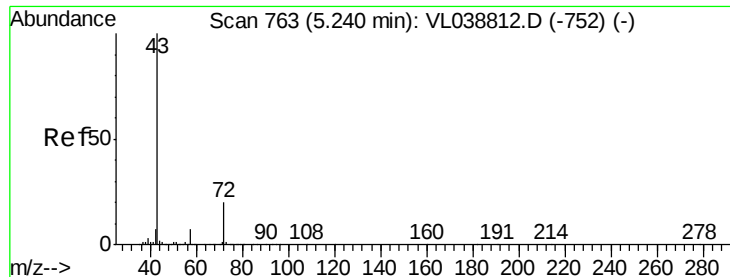
63 24.8 19.8 29.8

88 18.2 14.2 21.4



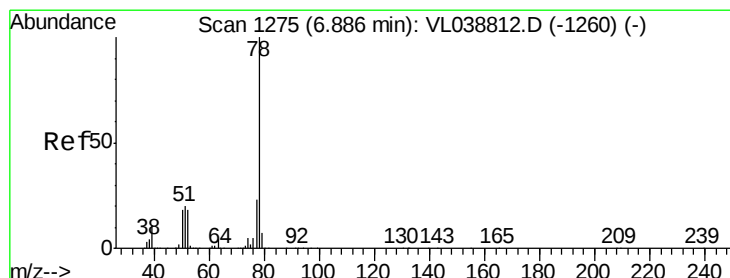
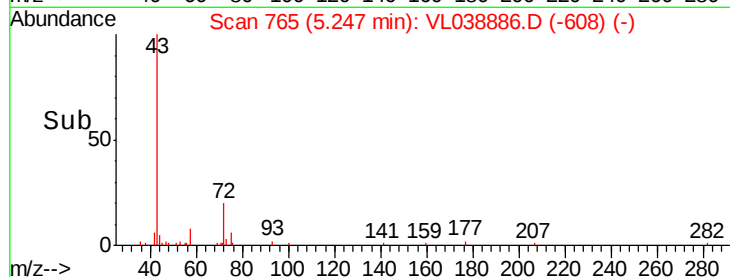
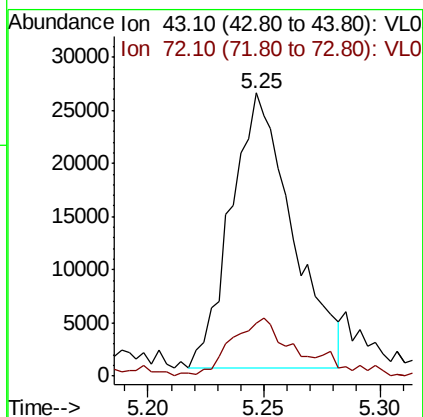
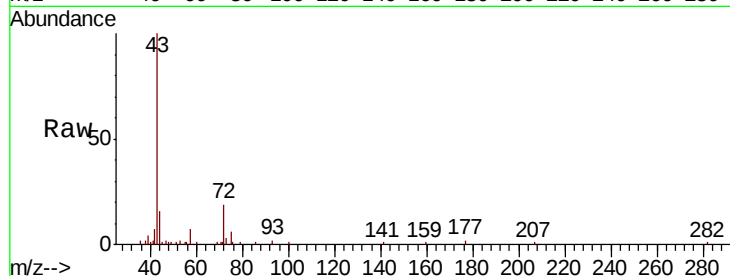
Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0





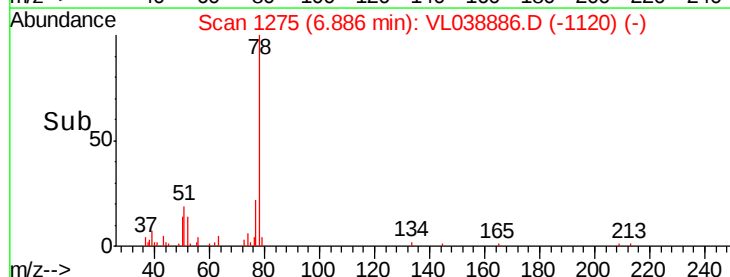
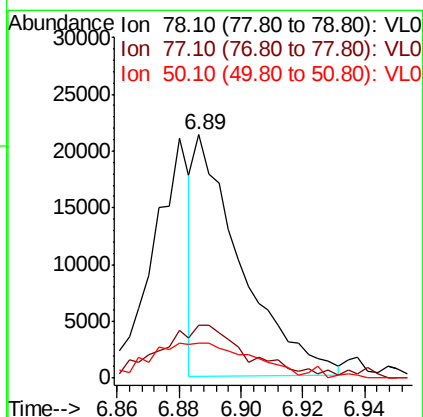
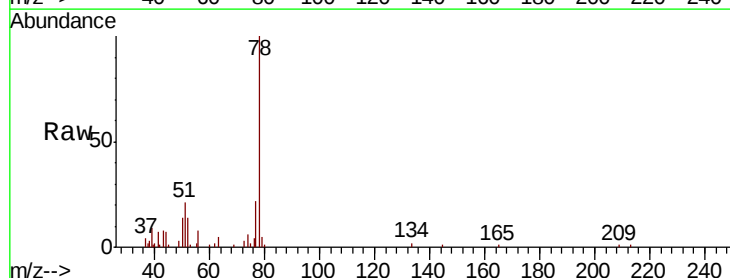
#34
2-Butanone
Concen: 0.403 ppbv
RT: 5.25
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 12 Apr 2022 9:18

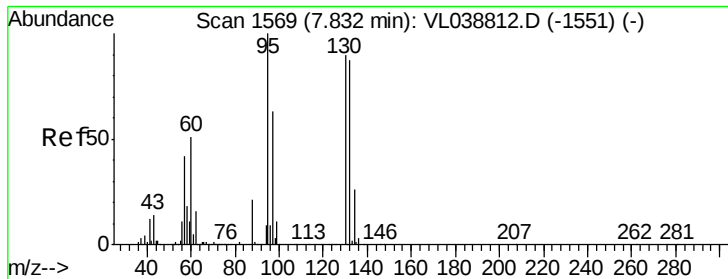
Tot Ion: 43 Resp: 47857
Ion Ratio Lower Upper
43 100
72 25.1 16.9 25.3



#36
Benzene
Concen: 0.081 ppbv
RT: 6.89 min Scan# 1275
Delta R.T. -0.00 min
Lab File: VL038886.D
Acq: 12 Apr 2022 9:18

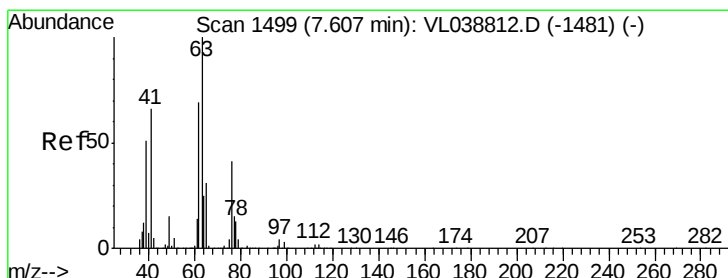
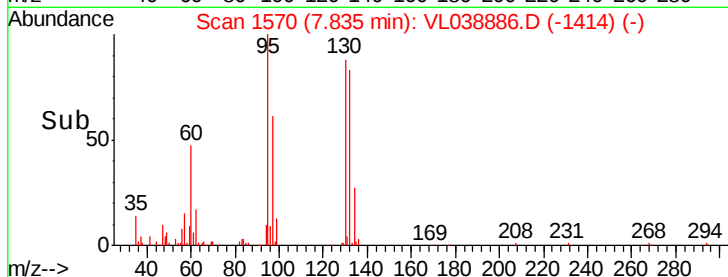
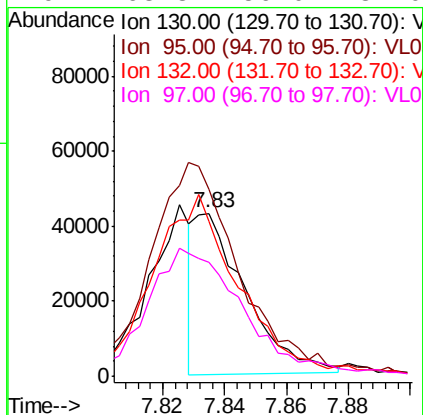
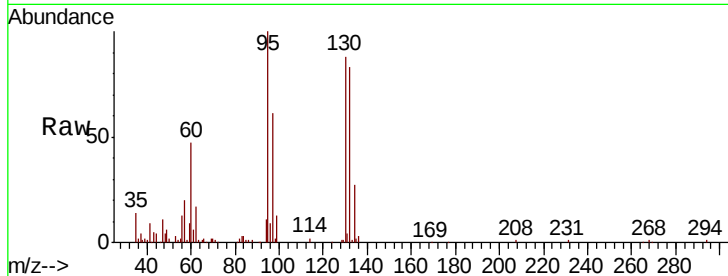
Tgt Ion: 78 Resp: 22148
Ion Ratio Lower Upper
78 100
77 21.5 18.2 27.2
50 14.1 14.0 21.0





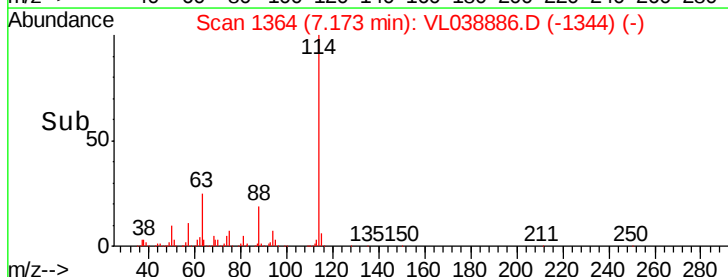
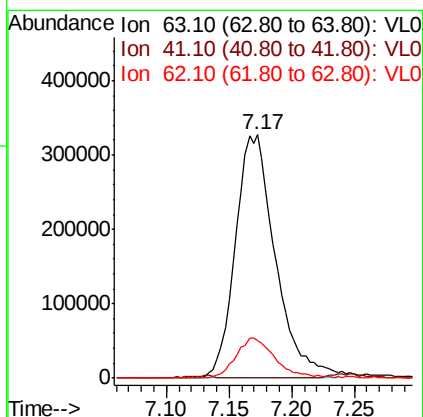
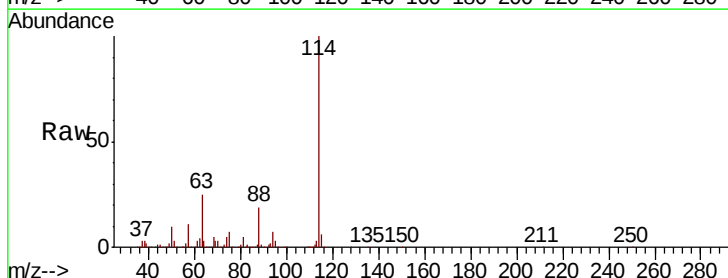
#38
 Trichloroethene
 Concen: 0.434 ppbv
 RT: 7.83
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 12 Apr 2022 9:18

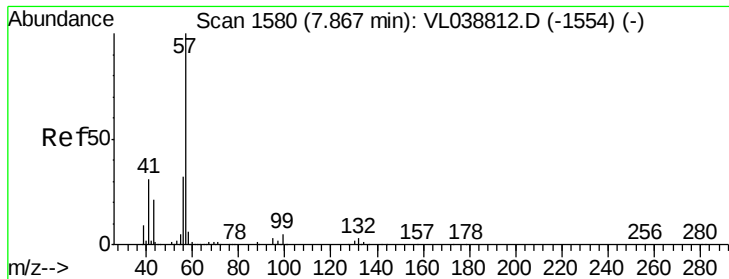
Tot Ion:130	Resp:	48682
Ion Ratio	Lower	Upper
130	100	
95	114.4	89.4 134.0
132	93.9	77.7 116.5
97	68.8	56.0 84.0



#39
 1,2-Dichloropropane
 Concen: 6.951 ppbv
 RT: 7.17 min Scan# 1364
 Delta R.T. -0.43 min
 Lab File: VL038886.D
 Acq: 12 Apr 2022 9:18

Tgt Ion: 63	Resp:	727362
Ion Ratio	Lower	Upper
63	100	
41	0.0	53.0 79.6#
62	15.2	55.0 82.4#





#44

2,2,4-Trimethylpentane

Concen: 0.345 ppbv

RT: 7.86 Instrument:

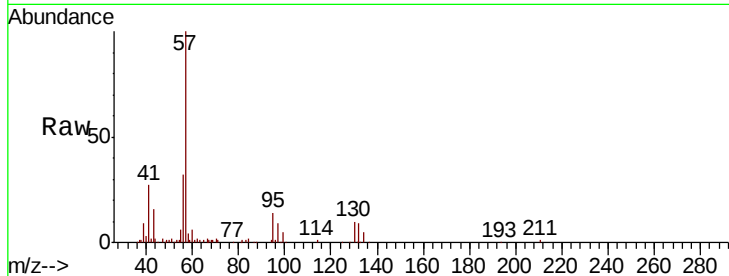
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 12 Apr 2022 9:18 SVE-INFLUENT

Tot Ion: 57 Resp: 159888

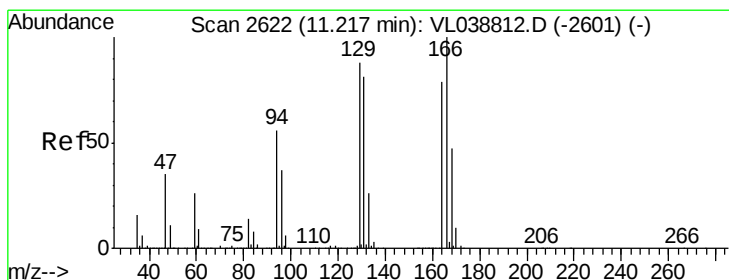
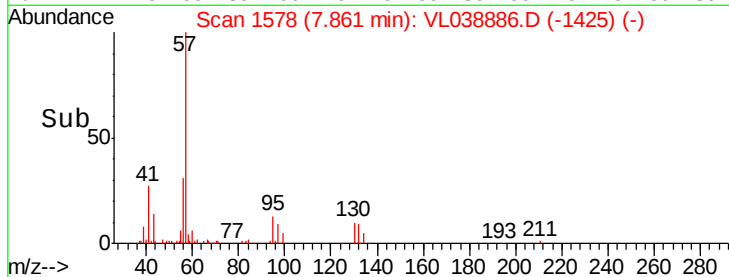
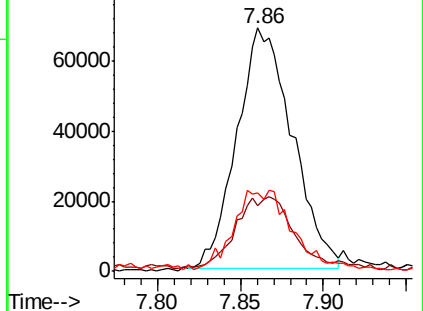
Ion	Ratio	Lower	Upper
57	100		
41	34.4	25.0	37.4
56	38.8	25.3	37.9#



Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#52

Tetrachloroethene

Concen: 7.130 ppbv

RT: 11.21 min Scan# 2621

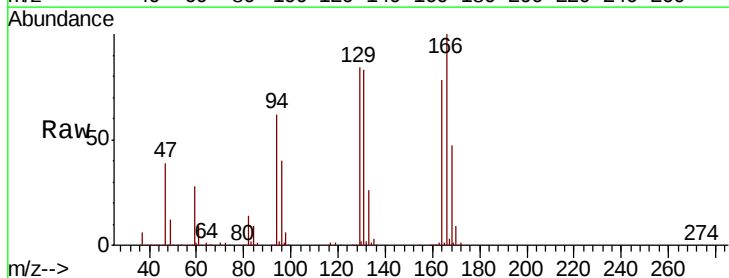
Delta R.T. -0.00 min

Lab File: VL038886.D

Acq: 12 Apr 2022 9:18

Tgt Ion:164 Resp: 681342

Ion	Ratio	Lower	Upper
164	100		
166	127.4	101.0	151.6
129	107.6	88.7	133.1
131	106.0	81.8	122.6

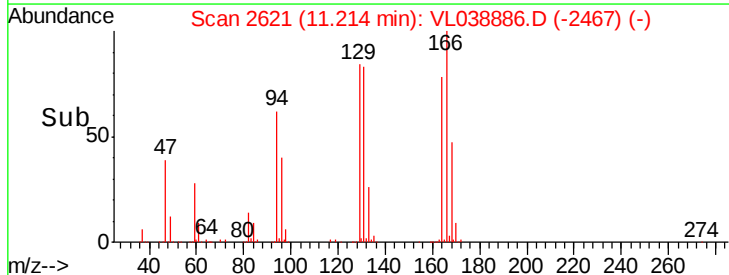
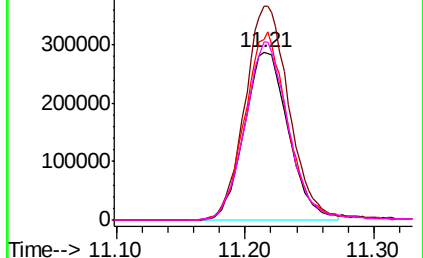


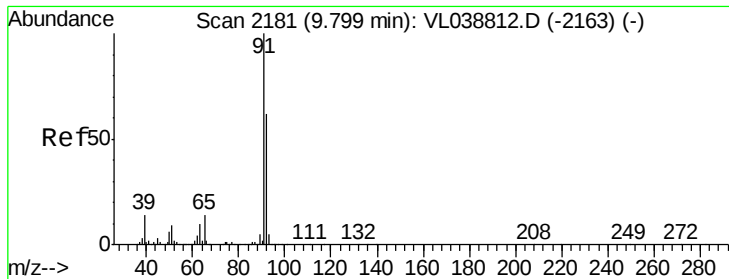
Abundance Ion 163.90 (163.60 to 164.60): V

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: 0.401 ppbv

RT: 9.80 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SVE-INFLUENT

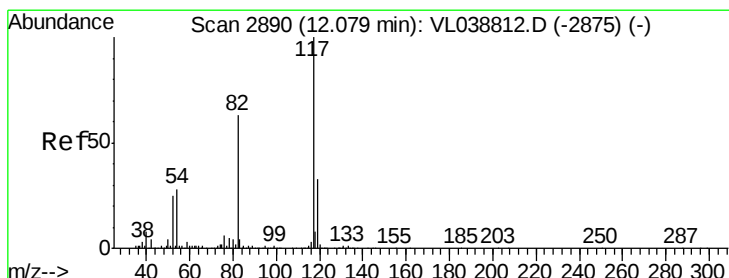
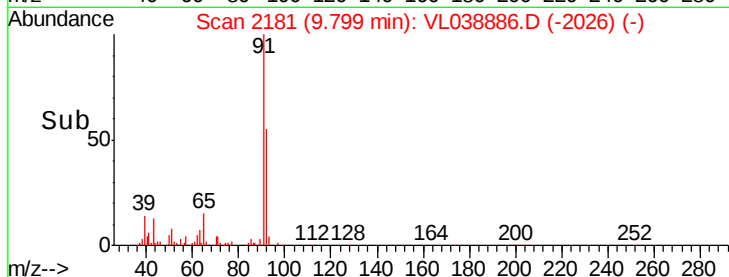
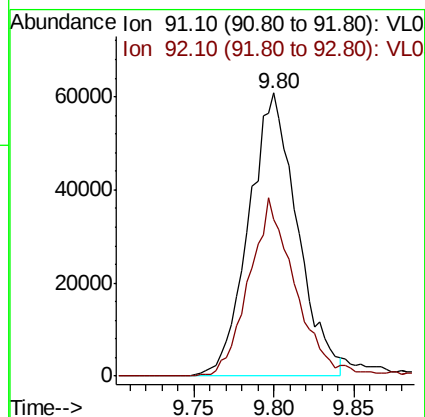
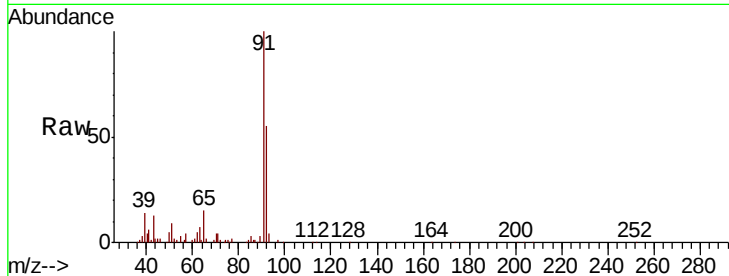
Acq: 12 Apr 2022 9:18

Tot Ion: 91 Resp: 126548

Ion Ratio Lower Upper

91 100

92 61.5 49.2 73.8



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2890

Delta R.T. -0.00 min

Lab File: VL038886.D

Acq: 12 Apr 2022 9:18

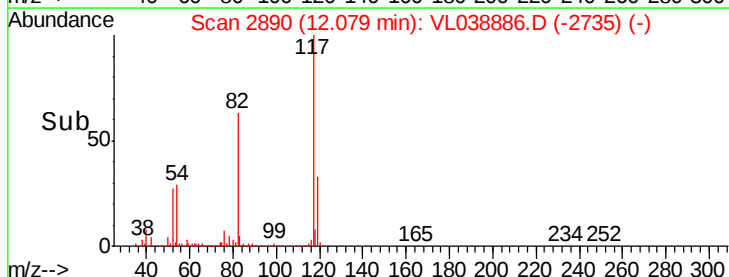
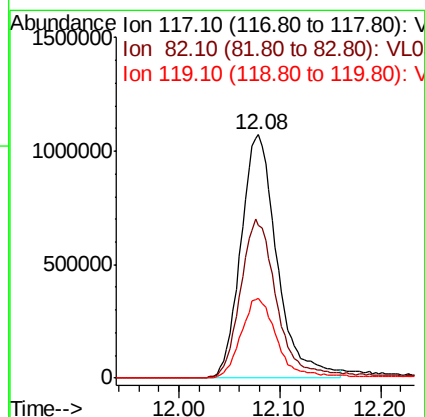
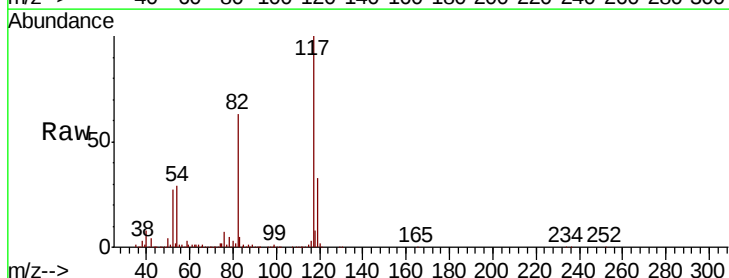
Tgt Ion: 117 Resp: 2666103

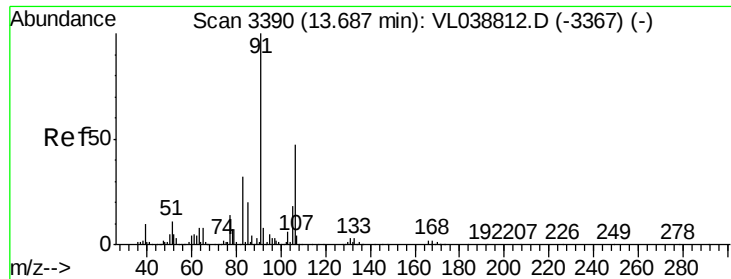
Ion Ratio Lower Upper

117 100

82 68.8 53.0 79.6

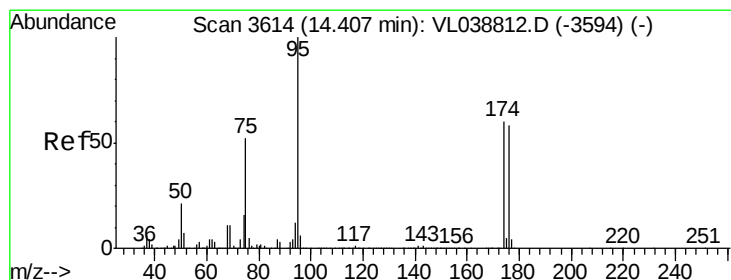
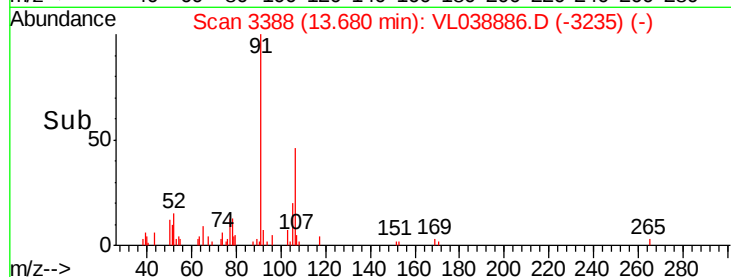
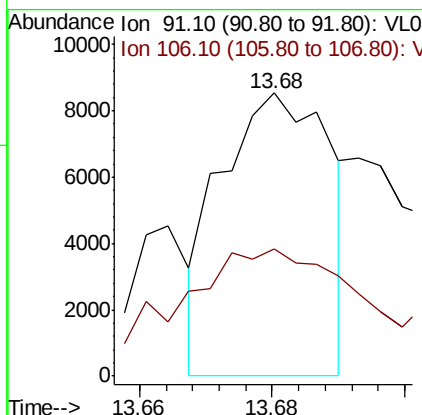
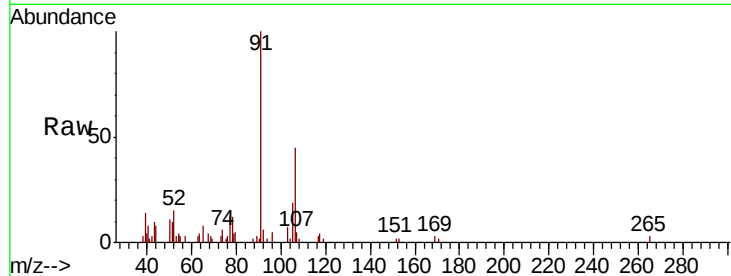
119 34.0 24.9 37.3





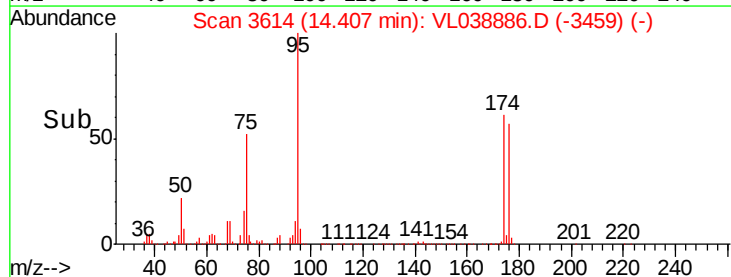
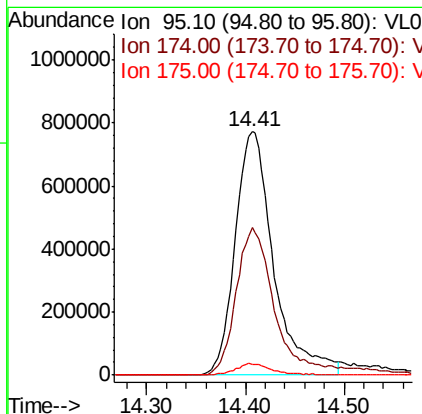
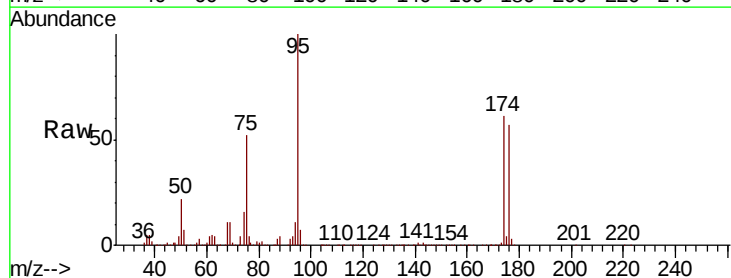
#60
o-Xylene
Concen: 0.031 ppbv
RT: 13.68
Delta R.T. MSVOA_L
Lab File: ClientSampleId:
Acq: 12 Apr 2022 9:18

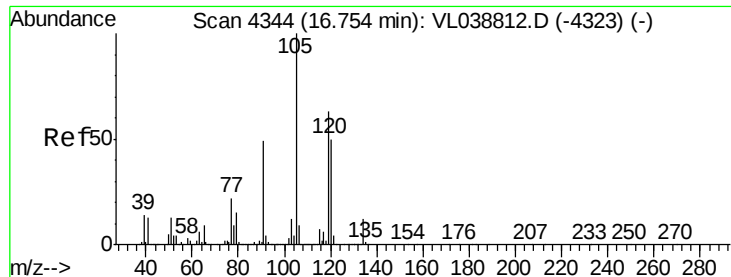
Tot Ion: 91 Resp: 9804
Ion Ratio Lower Upper
91 100
106 95.8 23.8 71.4#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.351 ppbv
RT: 14.41 min Scan# 3614
Delta R.T. -0.00 min
Lab File: VL038886.D
Acq: 12 Apr 2022 9:18

Tgt Ion: 95 Resp: 2093376
Ion Ratio Lower Upper
95 100
174 64.6 52.0 78.0
175 4.7 4.0 6.0





#74
 1,2,4-Trimethylbenzene
 Concen: 0.035 ppbv
 RT: 16.76
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 Acq: 12 Apr 2022 9:18

Tot Ion:	105	Resp:	12432
Ion Ratio	Lower	Upper	
105	100		
120	28.3	39.8	59.8#
91	7.4	39.4	59.0#
77	16.1	17.3	25.9#

