

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040722\
 Data File : VL038842.D
 Acq On : 7 Apr 2022 15:37
 Operator : SY/AP
 Sample : N2245-02
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 BD-AMBIENT

Quant Time: Apr 08 05:23:50 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	5.69	49	1263751	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.19	114	3127162	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.11	117	2629425	10.00	ppbv	0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	2162033	10.84	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	108.40%

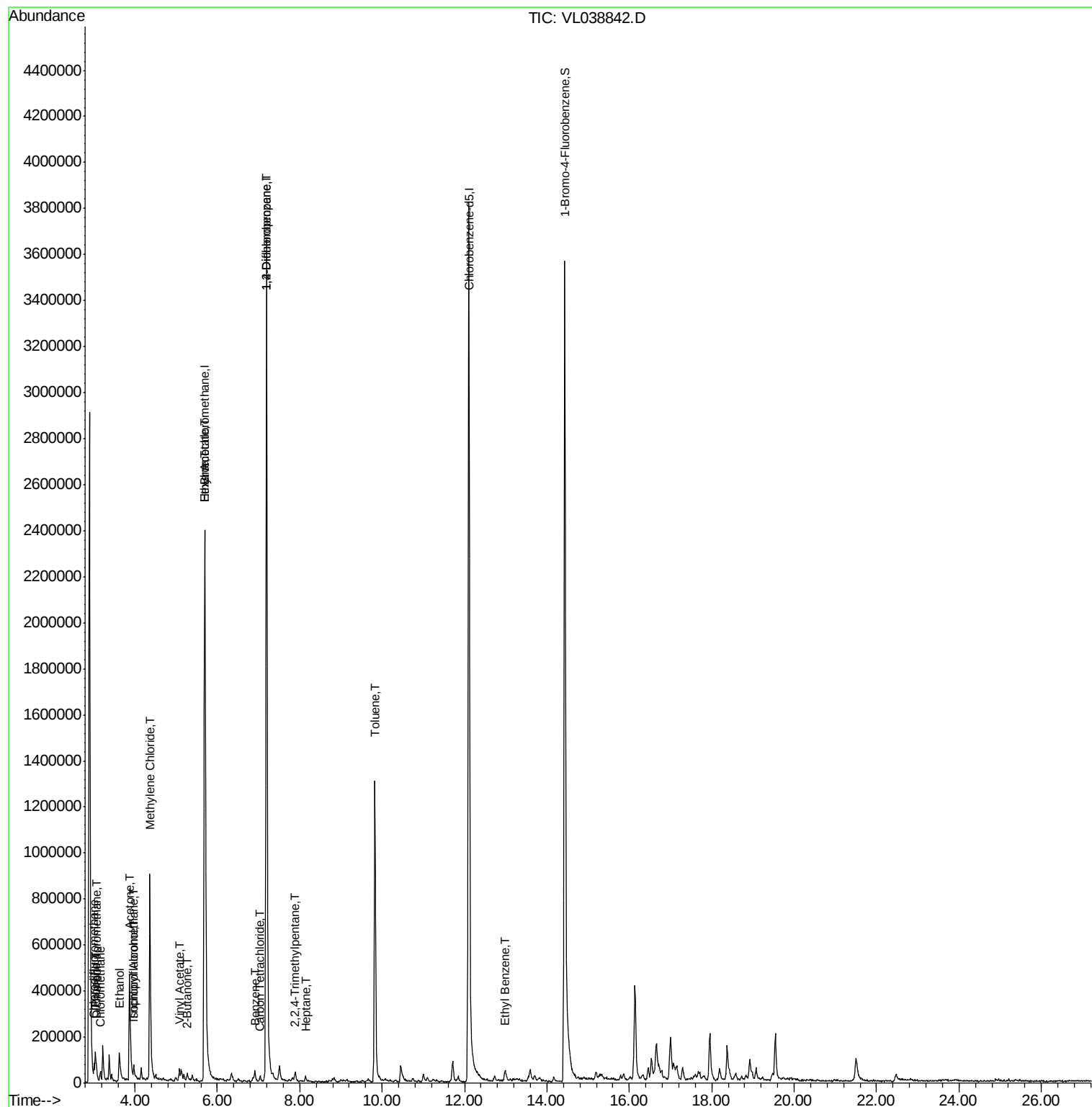
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	41891	0.234	ppbv	92
3) Chlorodifluoromethane	3.01	51	78219	0.507	ppbv	99
4) Chloromethane	3.16	50	36986	0.463	ppbv	92
9) Propene	3.04	41	20247	0.248	ppbv	95
10) Heptane	8.14	43	6797	0.033	ppbv #	39
11) Trichlorofluoromethane	3.97	101	36819	0.256	ppbv	91
13) Ethanol	3.62	45	141636	28.562	ppbv #	100
15) Acetone	3.87	43	617404	4.907	ppbv	97
19) Isopropyl Alcohol	3.98	45	3121	0.049	ppbv #	100
20) Methylene Chloride	4.36	84	345030	7.561	ppbv	97
23) Vinyl Acetate	5.08	43	34460	0.281	ppbv #	48
25) Ethyl Acetate	5.71	43	369333	1.157	ppbv #	77
26) Hexane	5.71	57	515039	3.544	ppbv #	40
34) 2-Butanone	5.27	43	21289	0.172	ppbv #	47
35) Carbon Tetrachloride	7.04	117	5671	0.030	ppbv #	59
36) Benzene	6.91	78	34992	0.123	ppbv	97
39) 1,2-Dichloropropane	7.19	63	823700	7.570	ppbv #	26
44) 2,2,4-Trimethylpentane	7.90	57	33278	0.069	ppbv #	84
53) Toluene	9.83	91	1139509	3.470	ppbv	99
58) Ethyl Benzene	12.99	91	16929	0.043	ppbv	90

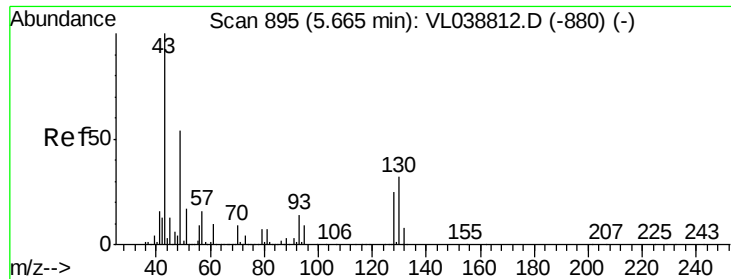
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL040722\
Data File : VL038842.D
Acq On : 7 Apr 2022 15:37
Operator : SY/AP
Sample : N2245-02
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BD-AMBIENT

Quant Time: Apr 08 05:23:50 2022
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL040522AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Apr 06 06:12:53 2022
QLast Update : Wed Apr 06 06:12:53 2022
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: BD-AMBIENT

Acq: 7 Apr 2022 15:37

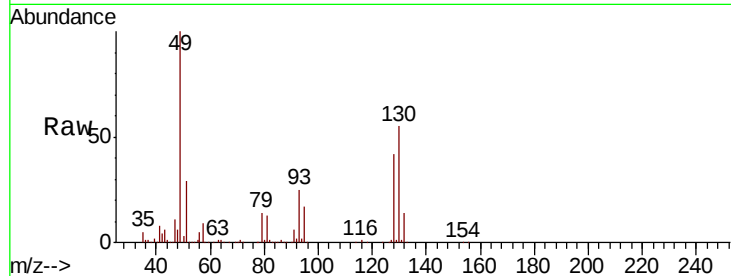
Tot Ion: 49 Resp: 1263751

Ion	Ratio	Lower	Upper
49	100		
128	45.7	24.1	72.3
130	57.5	30.9	92.8

49 100

128 45.7 24.1 72.3

130 57.5 30.9 92.8



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

5.69

600000

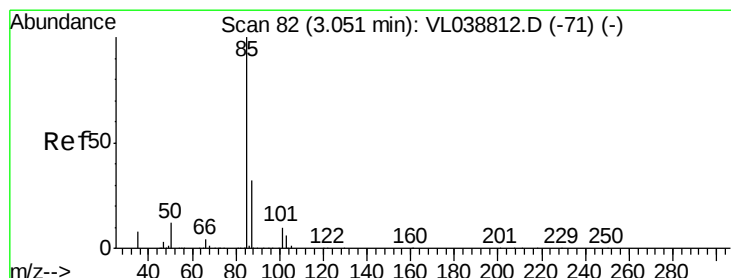
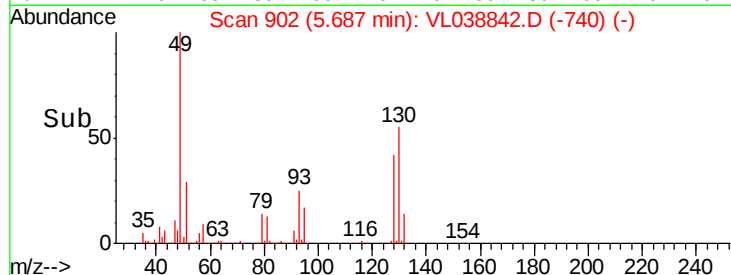
400000

200000

0

Time-->

5.60 5.65 5.70 5.75 5.80



#2

Dichlorodifluoromethane

Concen: 0.234 ppbv

RT: 3.07 min Scan# 87

Delta R.T. 0.02 min

Lab File: VL038842.D

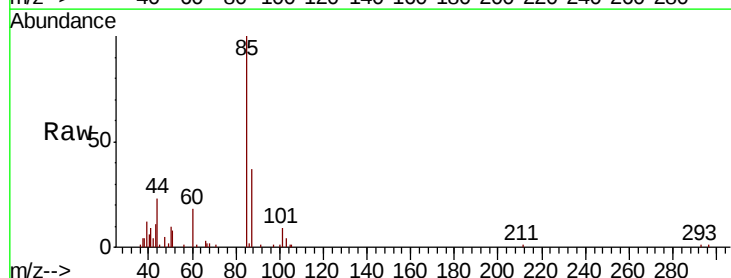
Acq: 7 Apr 2022 15:37

Tgt Ion: 85 Resp: 41891

Ion	Ratio	Lower	Upper
85	100		
87	36.6	25.9	38.9

85 100

87 36.6 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.07

30000

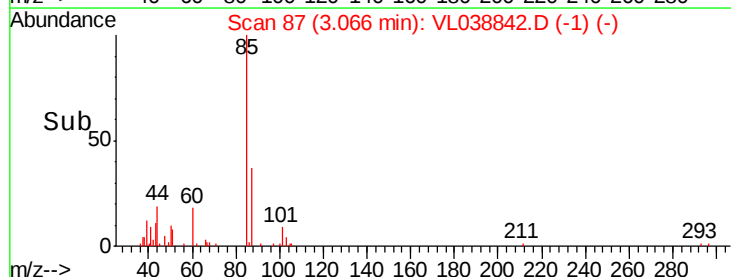
20000

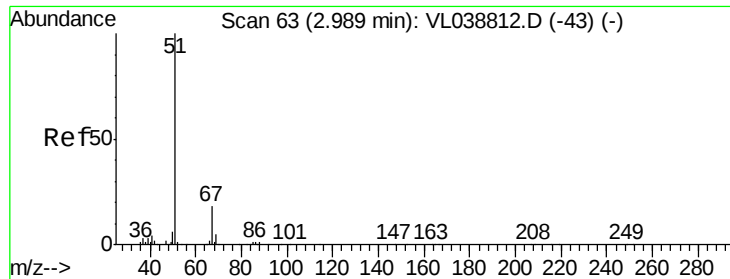
10000

0

Time-->

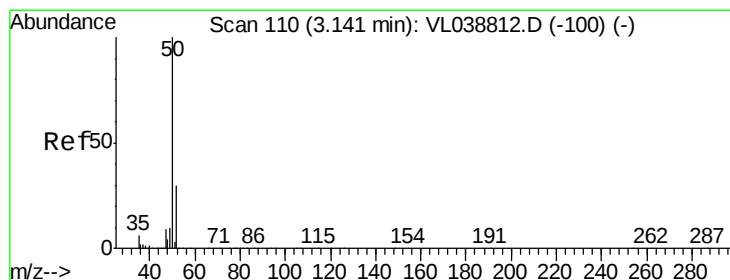
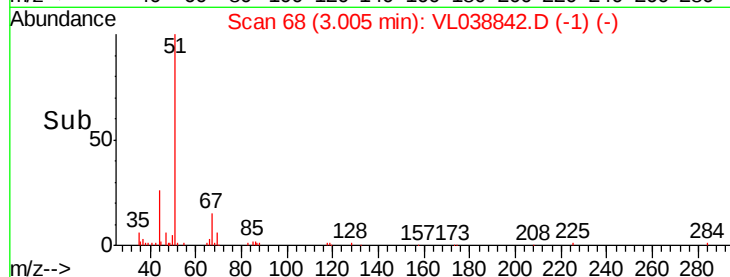
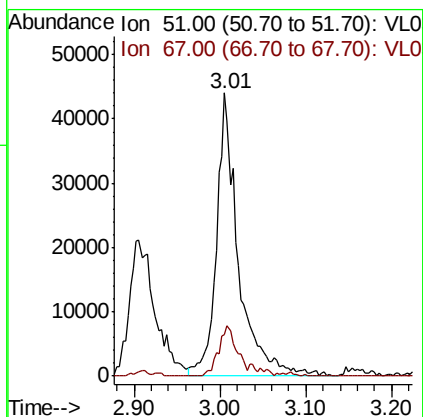
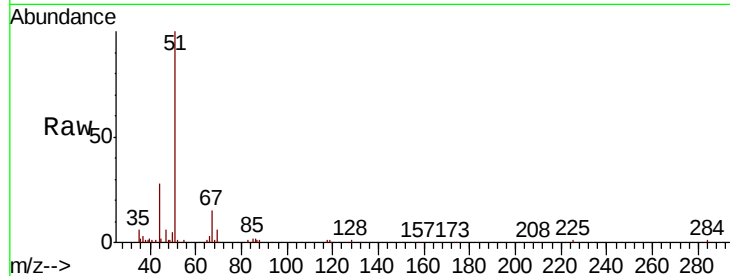
3.04 3.06 3.08 3.10





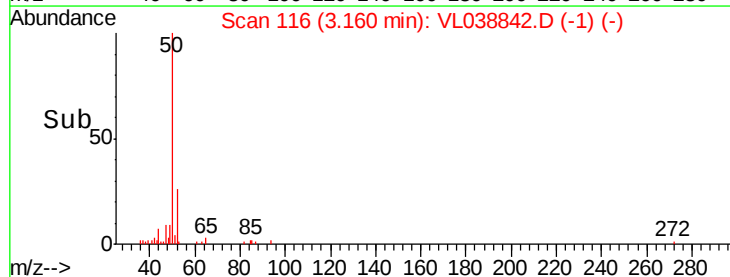
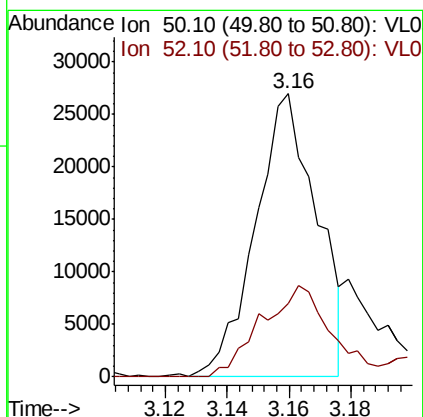
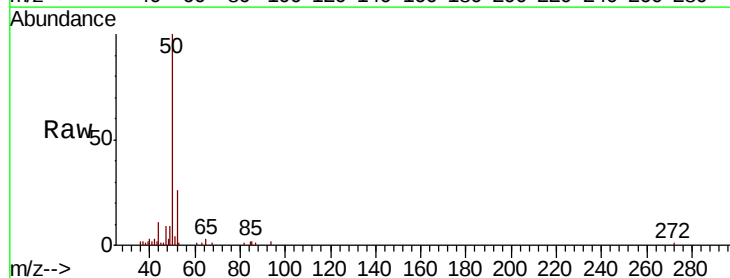
#3
 Chlorodifluoromethane
 Concen: 0.507 ppbv
 RT: 3.01
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 7 Apr 2022 15:37

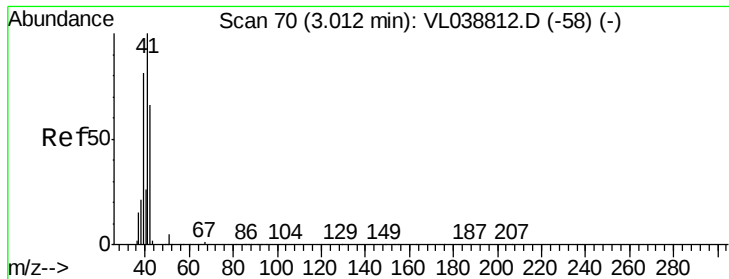
Tot Ion: 51 Resp: 78219
 Ion Ratio Lower Upper
 51 100
 67 17.3 13.4 20.0



#4
 Chloromethane
 Concen: 0.463 ppbv
 RT: 3.16 min Scan# 116
 Delta R.T. 0.02 min
 Lab File: VL038842.D
 Acq: 7 Apr 2022 15:37

Tgt Ion: 50 Resp: 36986
 Ion Ratio Lower Upper
 50 100
 52 25.9 24.3 36.5





#9

Propene

Concen: 0.248 ppbv

RT: 3.04 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

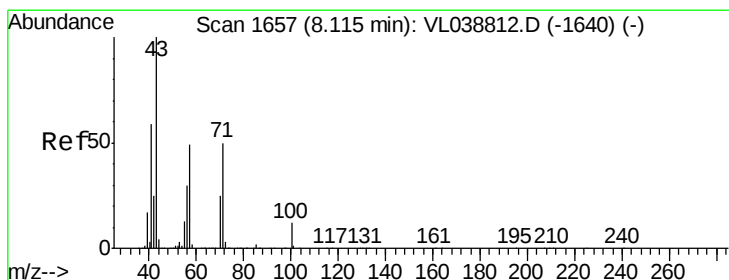
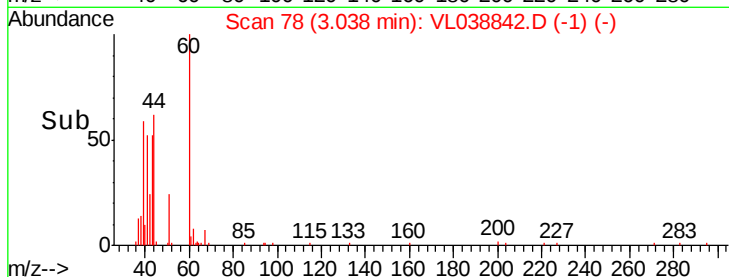
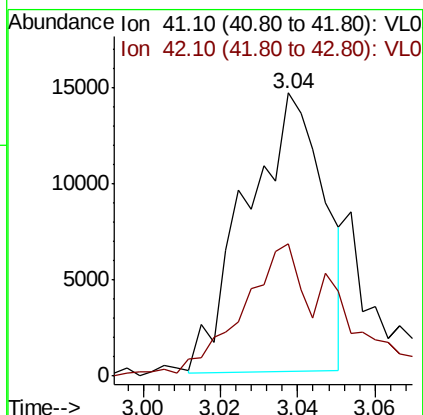
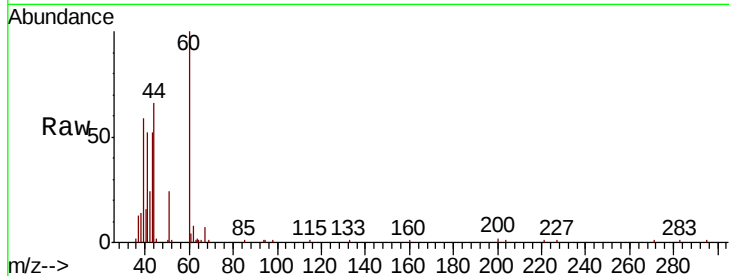
Acq: 7 Apr 2022 15:37 BD-AMBIENT

Tot Ion: 41 Resp: 20247

Ion Ratio Lower Upper

41 100

42 63.7 54.2 81.4



#10

Heptane

Concen: 0.033 ppbv

RT: 8.14 min Scan# 1666

Delta R.T. 0.03 min

Lab File: VL038842.D

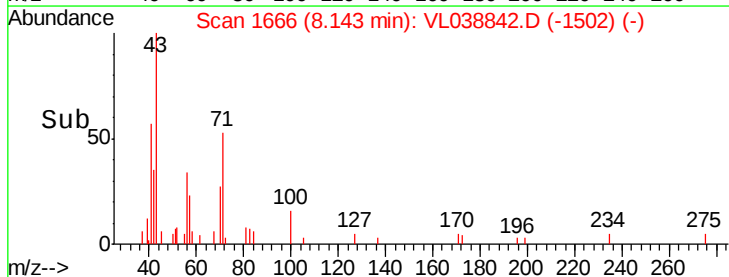
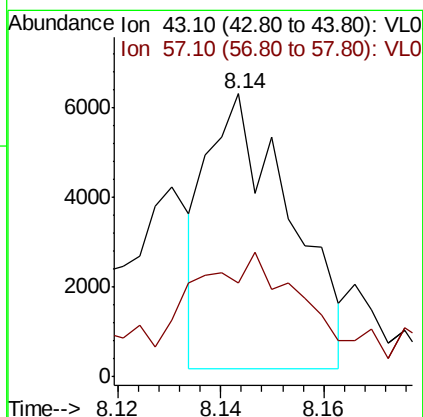
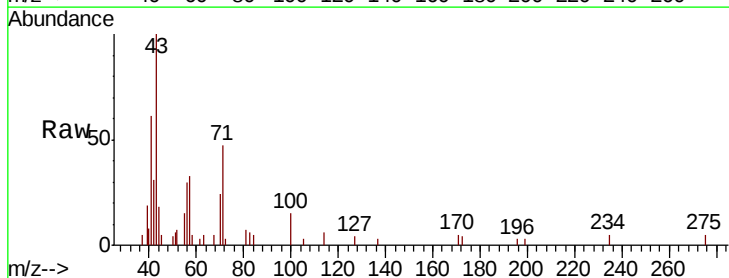
Acq: 7 Apr 2022 15:37

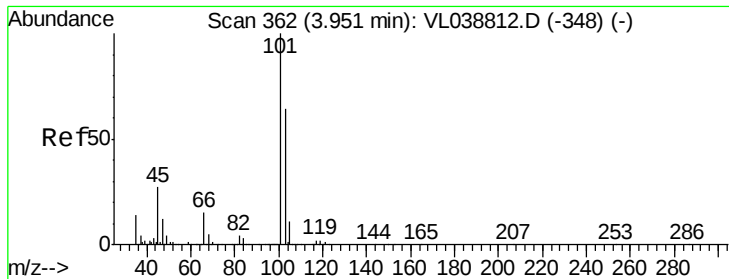
Tgt Ion: 43 Resp: 6797

Ion Ratio Lower Upper

43 100

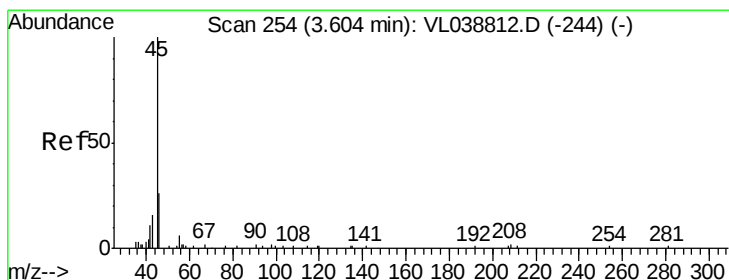
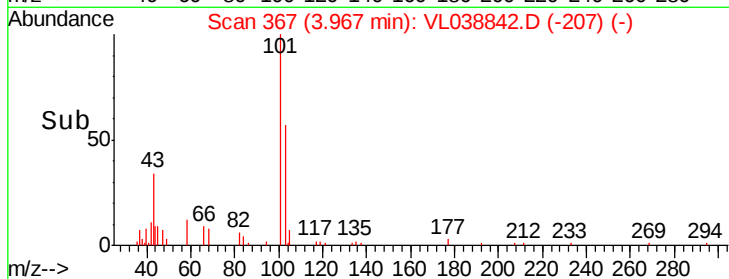
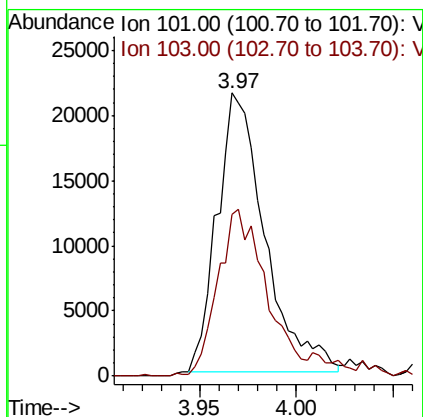
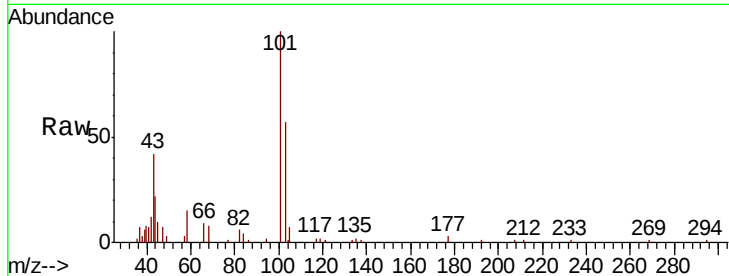
57 90.5 39.3 58.9#





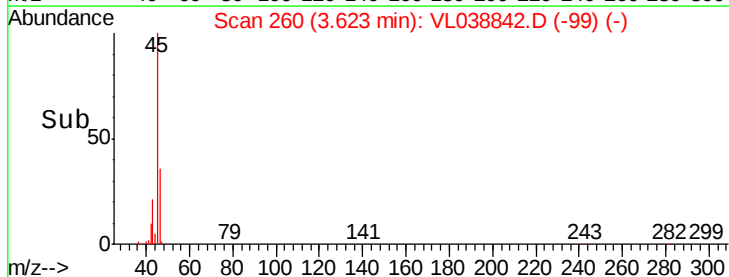
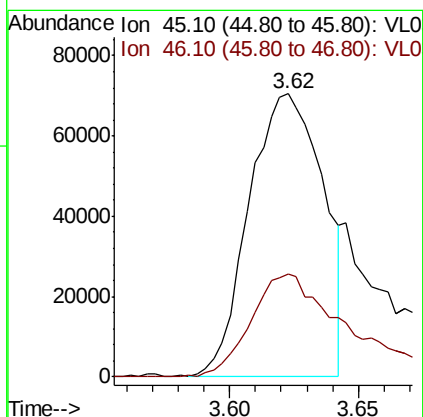
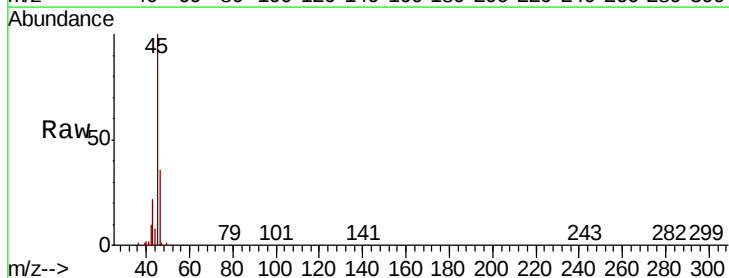
#11
 Trichlorofluoromethane
 Concen: 0.256 ppbv
 RT: 3.97
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 BD-AMBIENT
 Acq: 7 Apr 2022 15:37

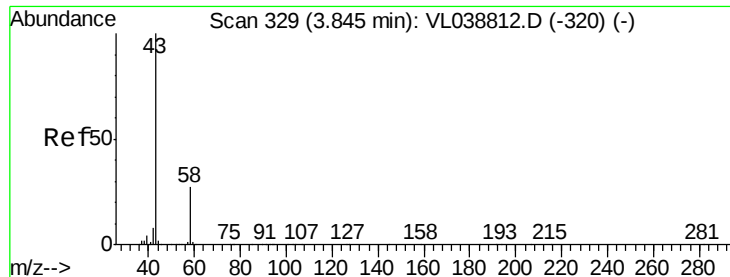
Tot Ion:101 Resp: 36819
 Ion Ratio Lower Upper
 101 100
 103 57.4 51.4 77.0



#13
 Ethanol
 Concen: 28.562 ppbv
 RT: 3.62 min Scan# 260
 Delta R.T. 0.02 min
 Lab File: VL038842.D
 Acq: 7 Apr 2022 15:37

Tgt Ion: 45 Resp: 141636
 Ion Ratio Lower Upper
 45 100
 46 53.0 0.0 0.0#





#15

Acetone

Concen: 4.907 ppbv

RT: 3.87 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

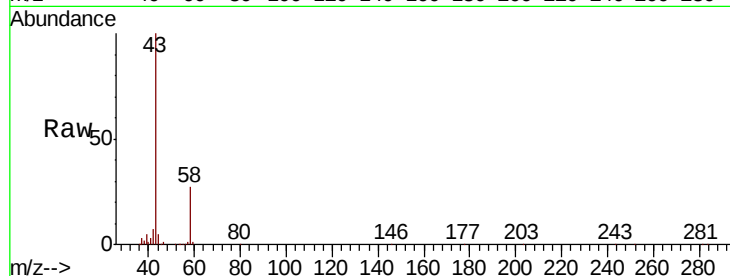
Acq: 7 Apr 2022 15:37 BD-AMBIENT

Tot Ion: 43 Resp: 617404

Ion Ratio Lower Upper

43 100

58 29.8 22.5 33.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.87

300000

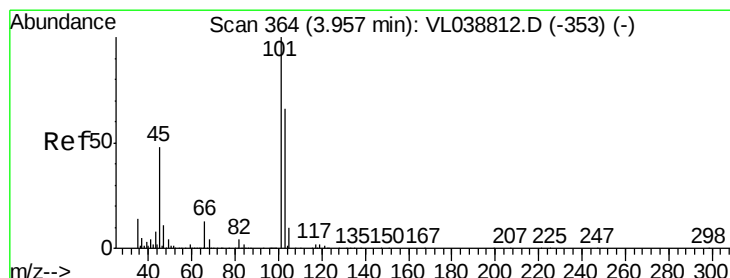
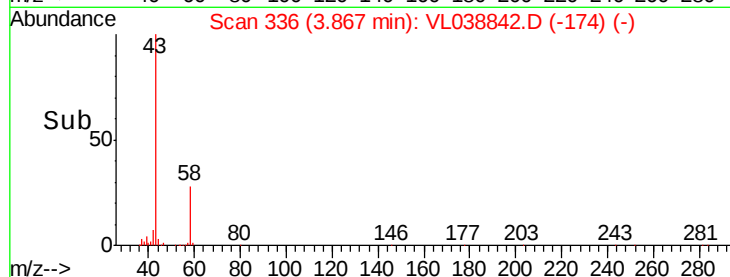
200000

100000

0

3.80 3.85 3.90 3.95

Time-->



#19

Isopropyl Alcohol

Concen: 0.049 ppbv

RT: 3.98 min Scan# 372

Delta R.T. 0.03 min

Lab File: VL038842.D

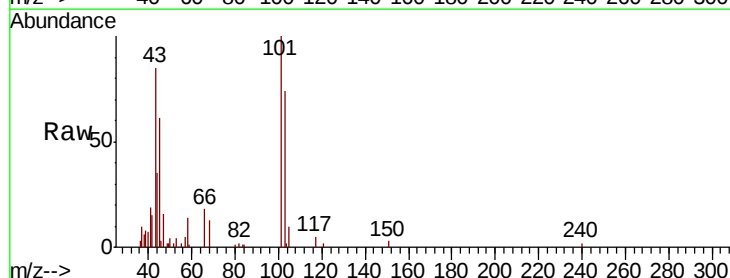
Acq: 7 Apr 2022 15:37

Tgt Ion: 45 Resp: 3121

Ion Ratio Lower Upper

45 100

58 0.0 0.0 0.0



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.98

8000

6000

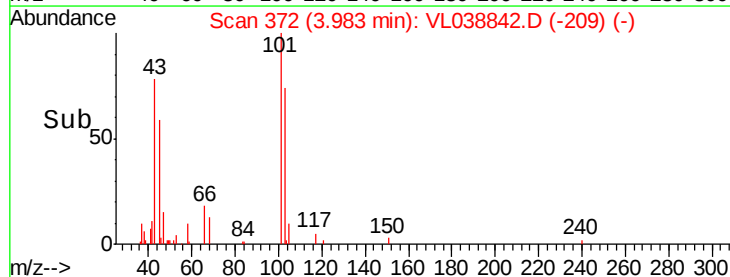
4000

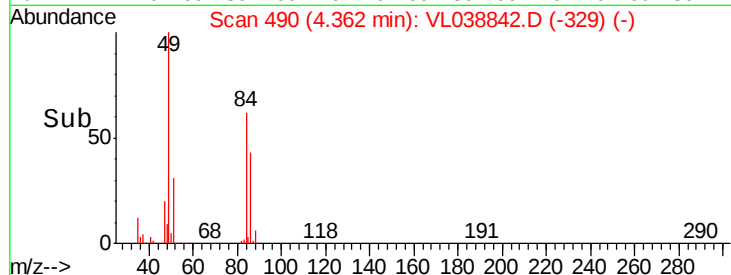
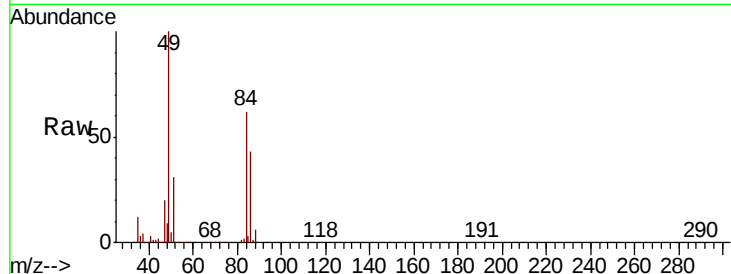
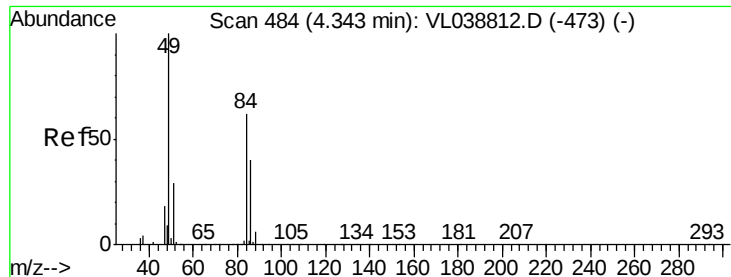
2000

0

3.97 3.98 3.99

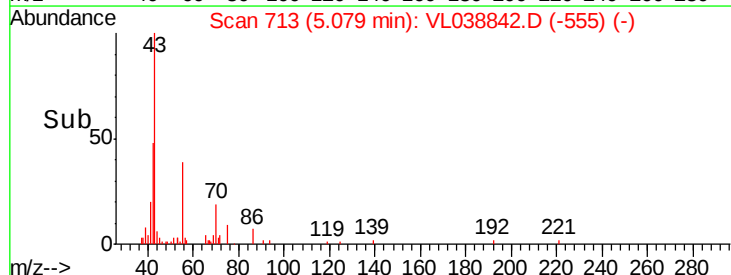
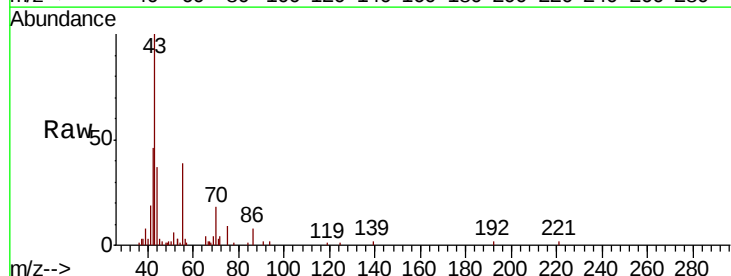
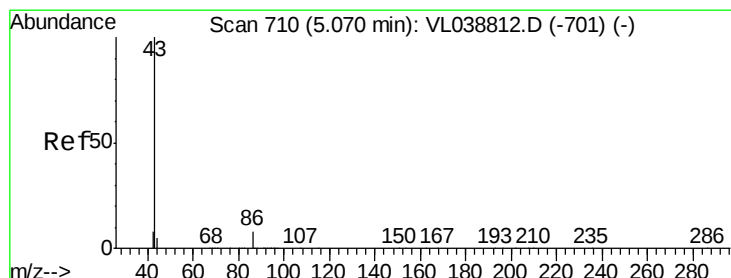
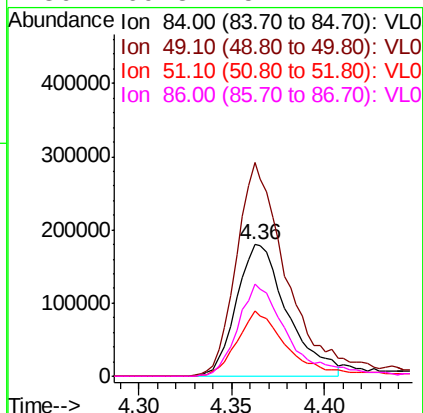
Time-->





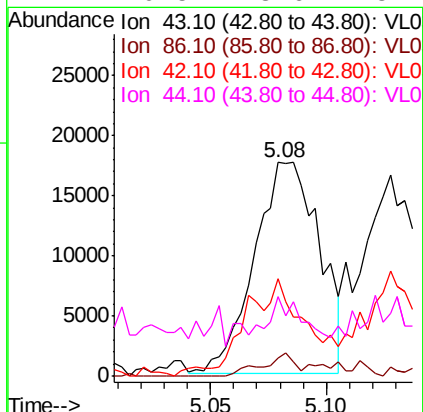
#20
Methylene Chloride
Concen: 7.561 ppbv
RT: 4.36
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
BD-AMBIENT
Acq: 7 Apr 2022 15:37

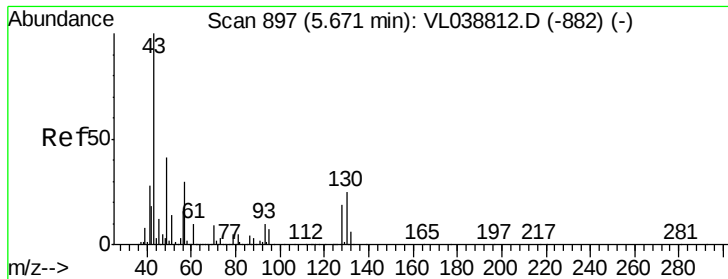
Tot Ion:	84	Resp:	345030
Ion	Ratio	Lower	Upper
84	100		
49	162.3	129.4	194.0
51	49.6	37.4	56.2
86	69.8	51.4	77.2



#23
Vinyl Acetate
Concen: 0.281 ppbv
RT: 5.08 min Scan# 713
Delta R.T. 0.01 min
Lab File: VL038842.D
Acq: 7 Apr 2022 15:37

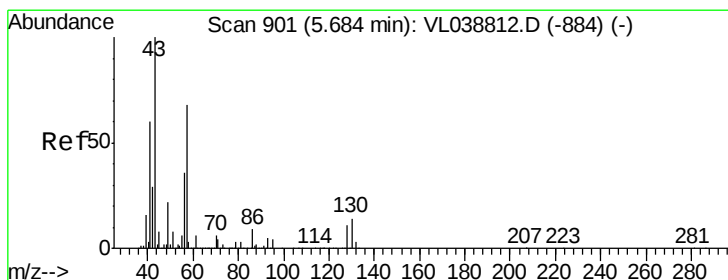
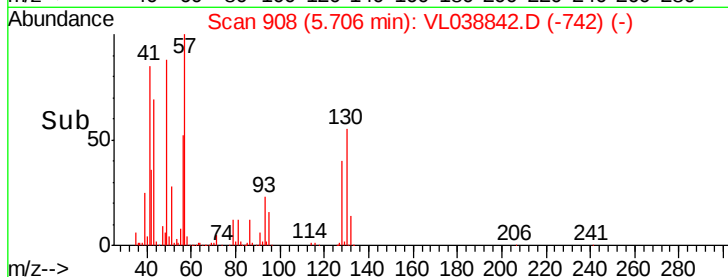
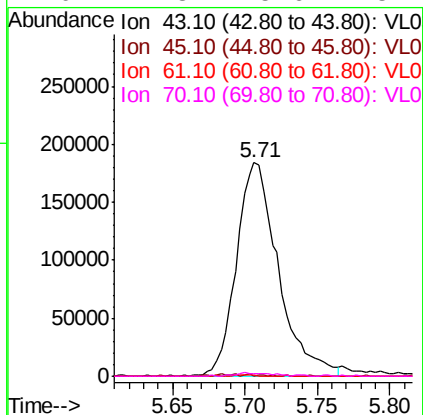
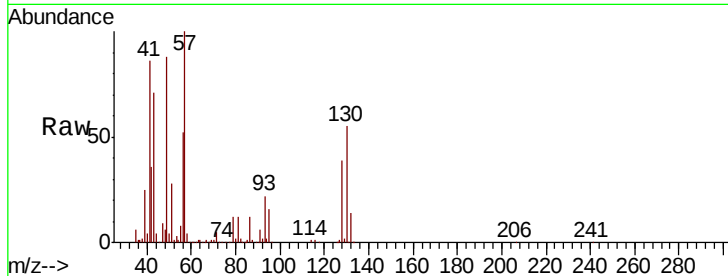
Tgt Ion:	43	Resp:	34460
Ion	Ratio	Lower	Upper
43	100		
86	8.4	5.8	8.6
42	42.9	7.8	11.6#
44	20.5	3.6	5.4#





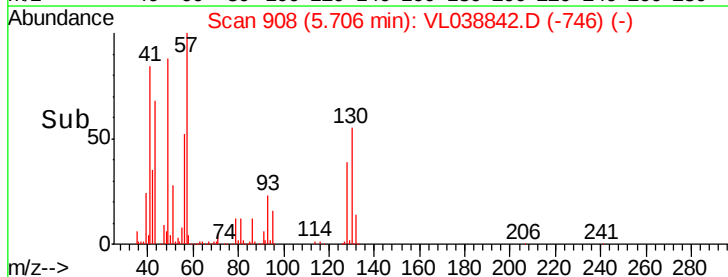
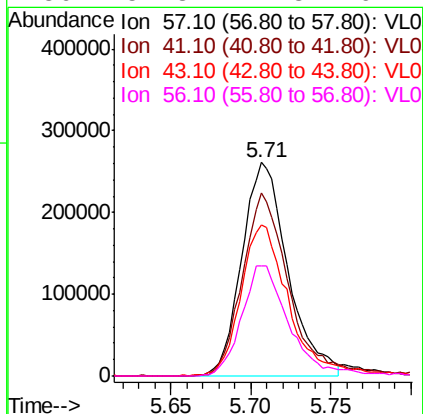
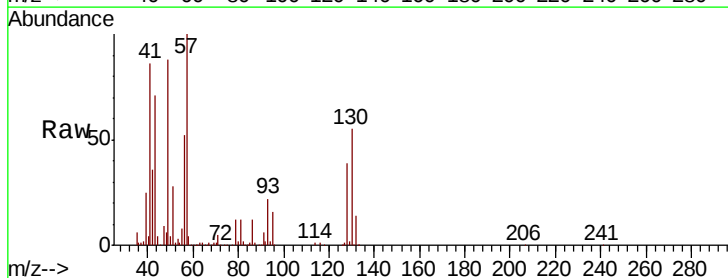
#25
Ethyl Acetate
Concen: 1.157 ppbv
RT: 5.71 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 7 Apr 2022 15:37

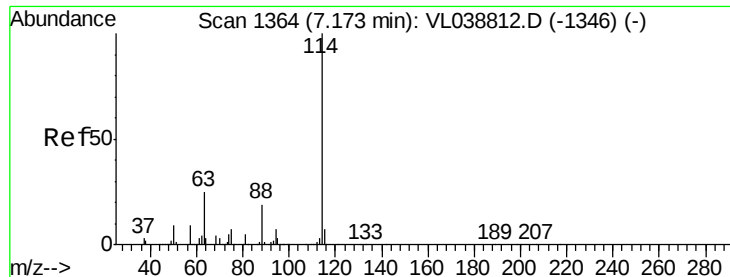
Tot Ion:	43	Resp:	369333
Ion	Ratio	Lower	Upper
43	100		
45	1.0	8.4	12.6#
61	0.4	7.9	11.9#
70	1.8	5.6	8.4#



#26
Hexane
Concen: 3.544 ppbv
RT: 5.71 min Scan# 908
Delta R.T. 0.02 min
Lab File: VL038842.D
Acq: 7 Apr 2022 15:37

Tgt Ion:	57	Resp:	515039
Ion	Ratio	Lower	Upper
57	100		
41	87.9	72.0	108.0
43	74.4	186.6	280.0#
56	54.3	42.8	64.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19

Instrument: MSVOA_L

Delta R.T.

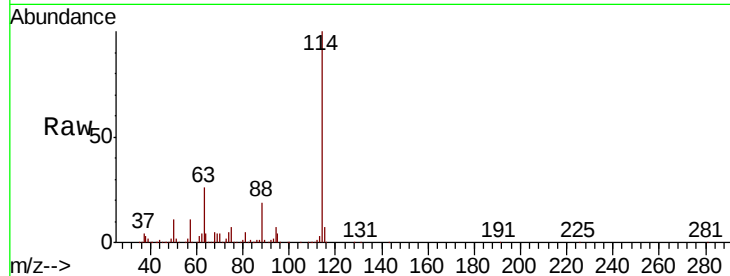
Lab File: ClientSampleId:

BD-AMBIENT

Acq: 7 Apr 2022 15:37

Tot Ion:114 Resp: 3127162

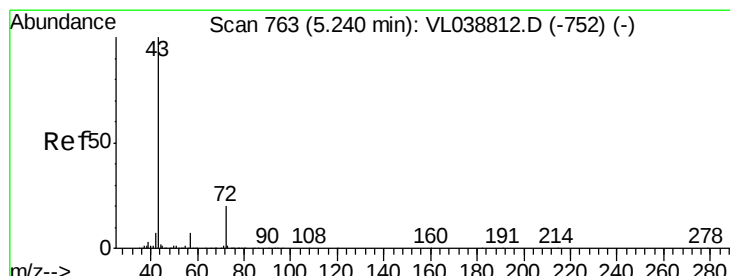
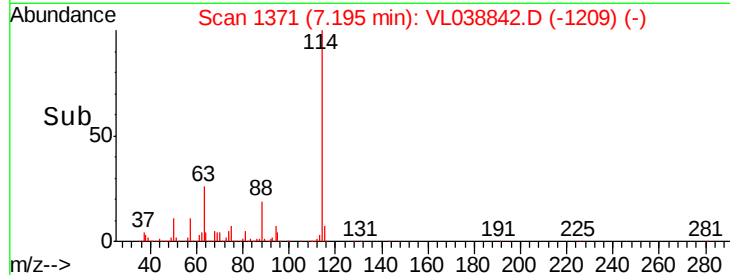
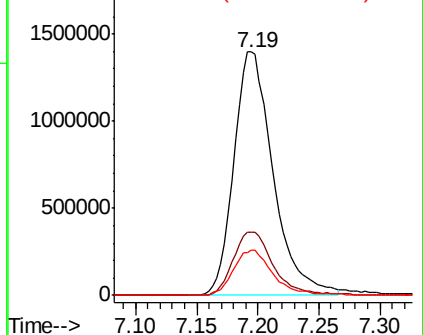
Ion	Ratio	Lower	Upper
114	100		
63	27.0	19.8	29.8
88	18.9	14.2	21.4



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: 0.172 ppbv

RT: 5.27 min Scan# 773

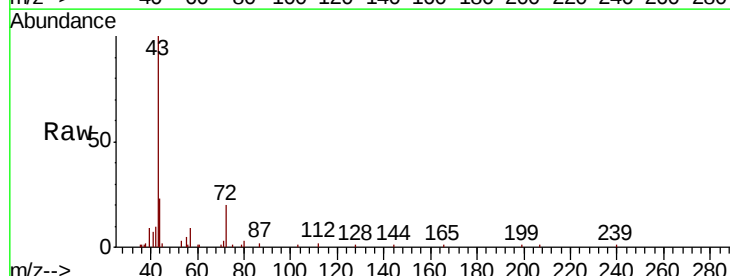
Delta R.T. 0.03 min

Lab File: VL038842.D

Acq: 7 Apr 2022 15:37

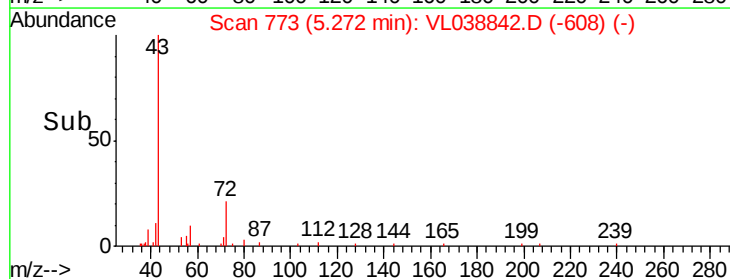
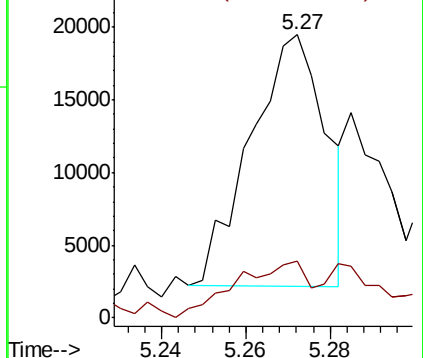
Tgt Ion: 43 Resp: 21289

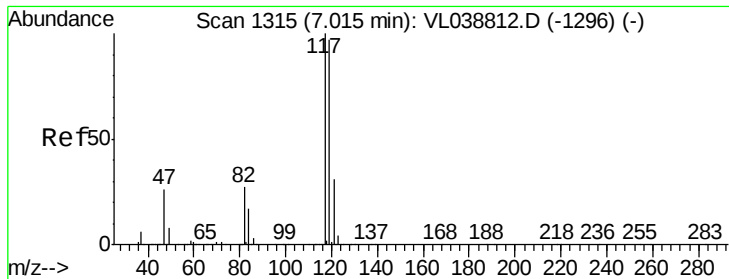
Ion	Ratio	Lower	Upper
43	100		
72	45.9	16.9	25.3#



Abundance Ion 43.10 (42.80 to 43.80): VL0

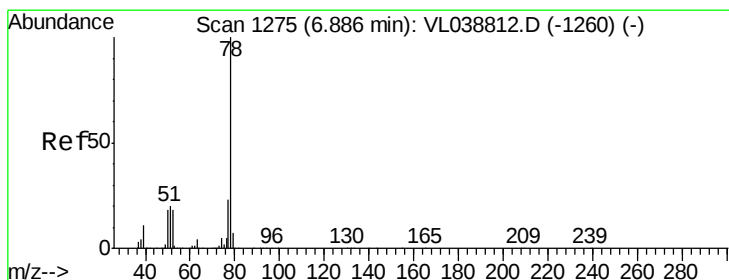
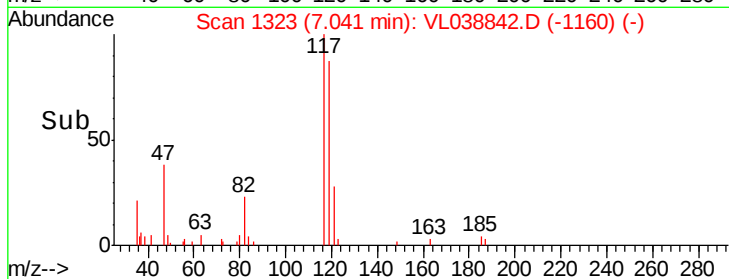
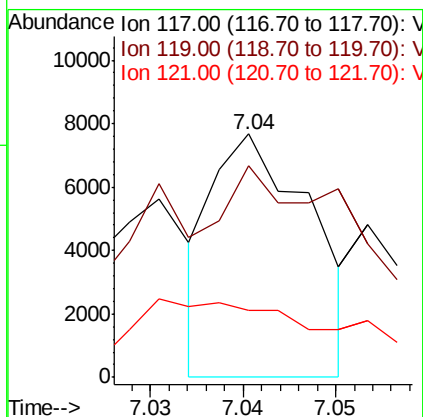
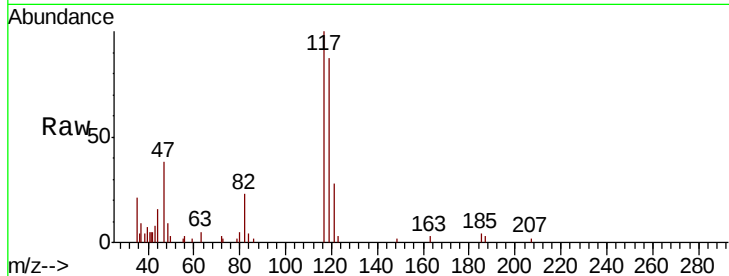
Ion 72.10 (71.80 to 72.80): VL0





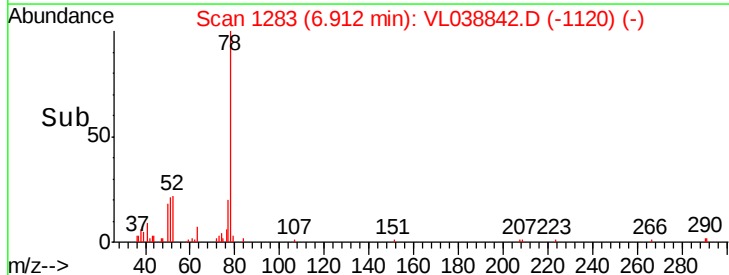
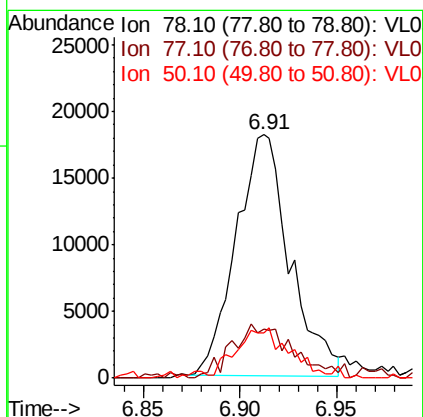
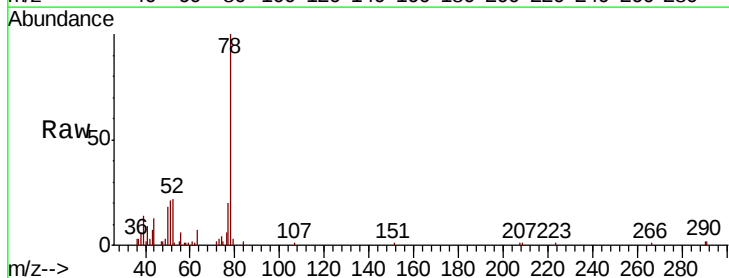
#35
Carbon Tetrachloride
Concen: 0.030 ppbv
RT: 7.04
Delta R.T. MSVOA_L
Lab File: ClientSampled :
Acq: 7 Apr 2022 15:37

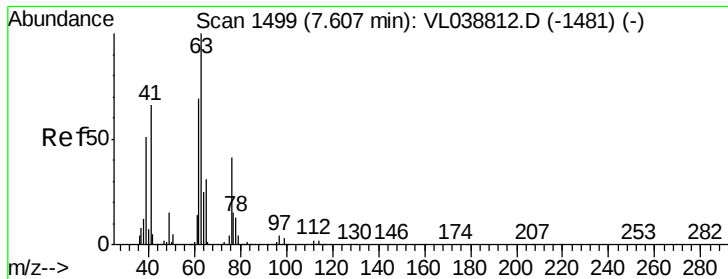
Tot Ion: 117 Resp: 5671
Ion Ratio Lower Upper
117 100
119 53.9 77.7 116.5#
121 14.2 24.5 36.7#



#36
Benzene
Concen: 0.123 ppbv
RT: 6.91 min Scan# 1283
Delta R.T. 0.03 min
Lab File: VL038842.D
Acq: 7 Apr 2022 15:37

Tgt Ion: 78 Resp: 34992
Ion Ratio Lower Upper
78 100
77 20.5 18.2 27.2
50 17.3 14.0 21.0





#39

1,2-Dichloropropane

Concen: 7.570 ppbv

RT: 7.19 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 7 Apr 2022 15:37 BD-AMBIENT

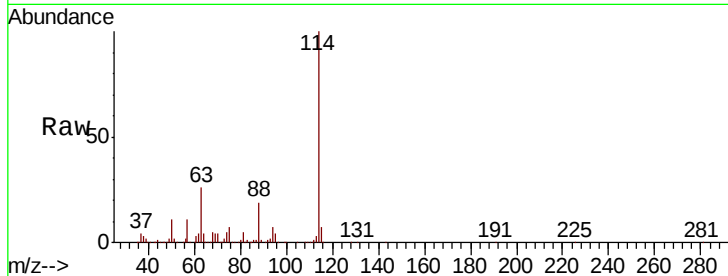
Tot Ion: 63 Resp: 823700

Ion Ratio Lower Upper

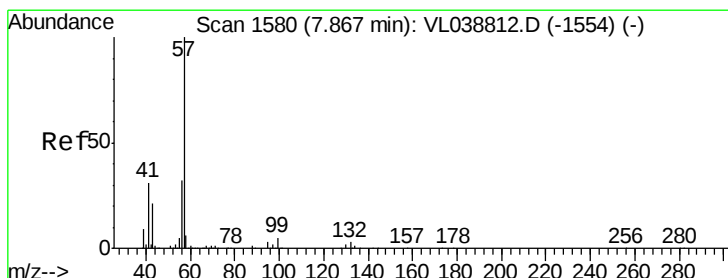
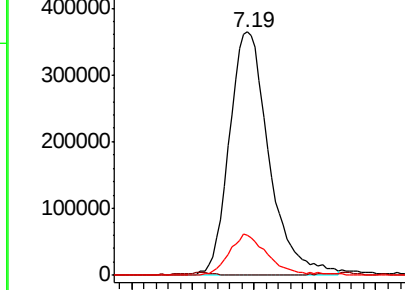
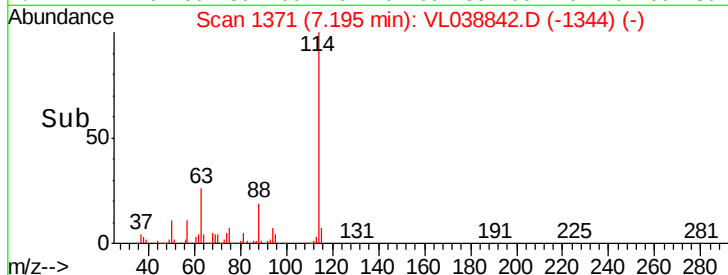
63 100

41 0.0 53.0 79.6#

62 16.5 55.0 82.4#



Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 62.10 (61.80 to 62.80): VL0



#44

2,2,4-Trimethylpentane

Concen: 0.069 ppbv

RT: 7.90 min Scan# 1590

Delta R.T. 0.03 min

Lab File: VL038842.D

Acq: 7 Apr 2022 15:37

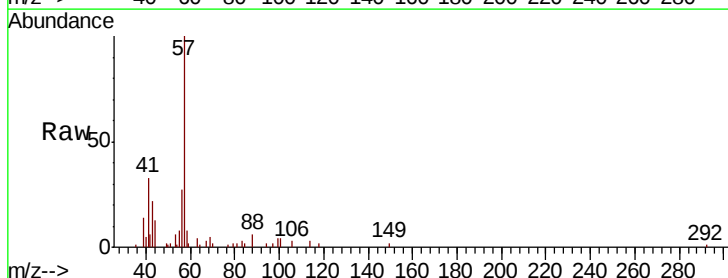
Tgt Ion: 57 Resp: 33278

Ion Ratio Lower Upper

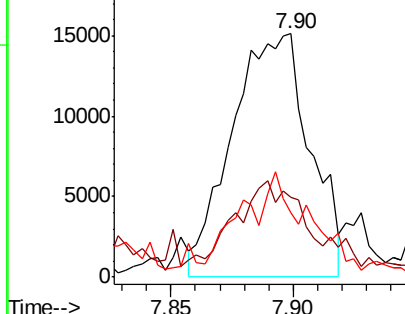
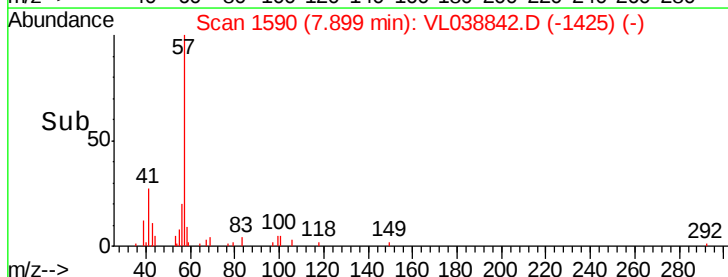
57 100

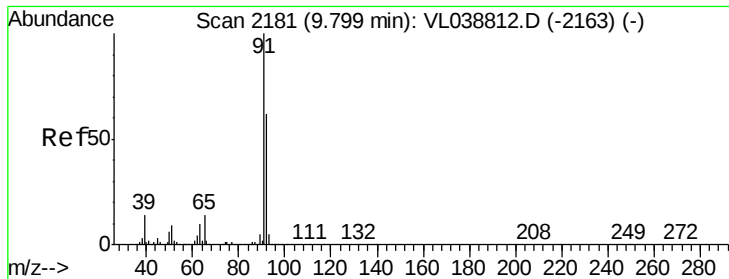
41 37.4 25.0 37.4#

56 42.9 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





#53

Toluene

Concen: 3.470 ppbv

RT: 9.83 Instrument: MSVOA_L

Delta R.T. 0.03 min

Lab File: ClientSampleId: BD-AMBIENT

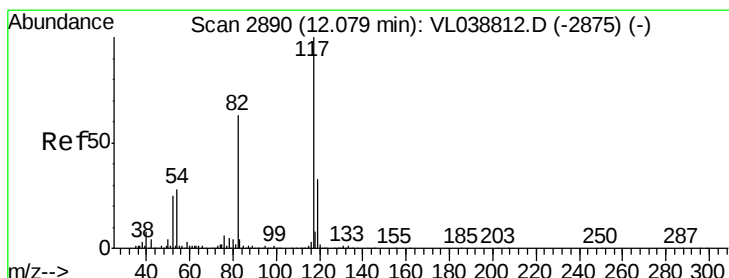
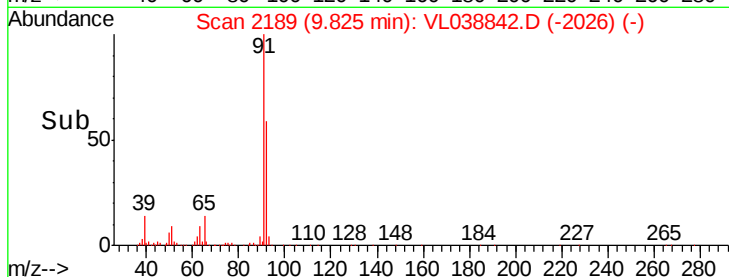
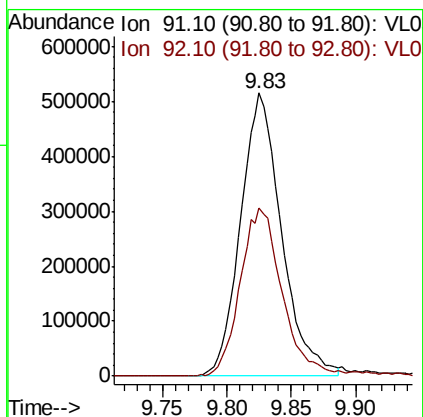
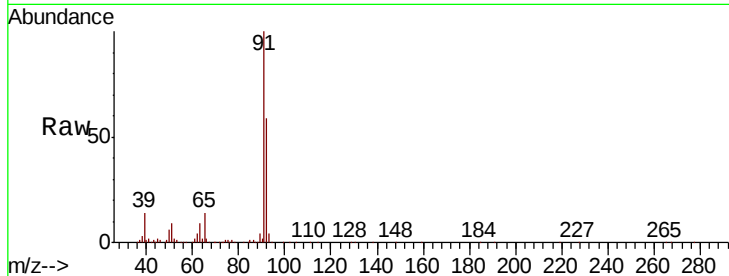
Acq: 7 Apr 2022 15:37

Tot Ion: 91 Resp: 1139509

Ion Ratio Lower Upper

91 100

92 62.4 49.2 73.8



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2899

Delta R.T. 0.03 min

Lab File: VL038842.D

Acq: 7 Apr 2022 15:37

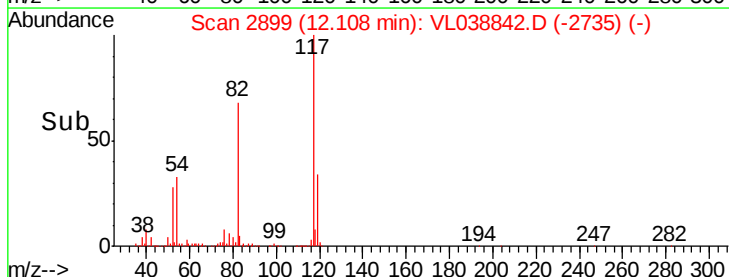
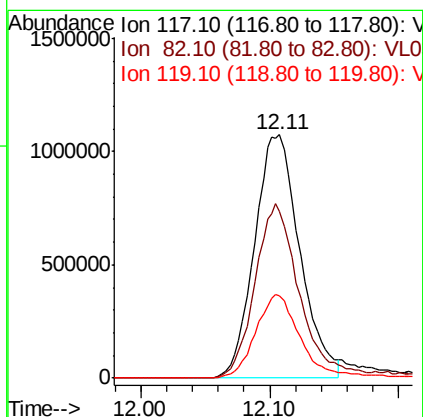
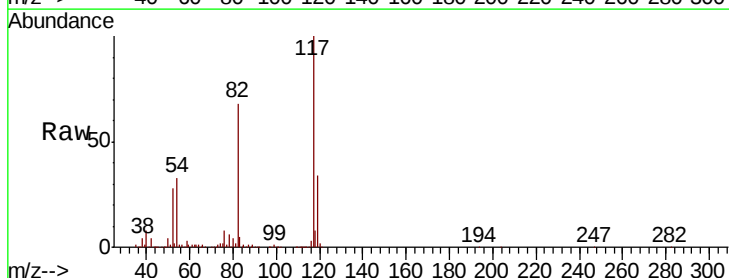
Tgt Ion: 117 Resp: 2629425

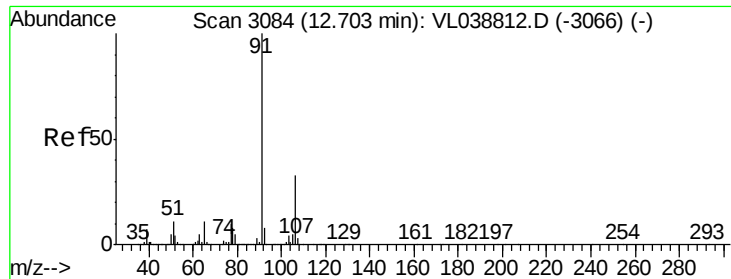
Ion Ratio Lower Upper

117 100

82 74.3 53.0 79.6

119 35.5 24.9 37.3





#58

Ethyl Benzene

Concen: 0.043 ppbv

RT: 12.99

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

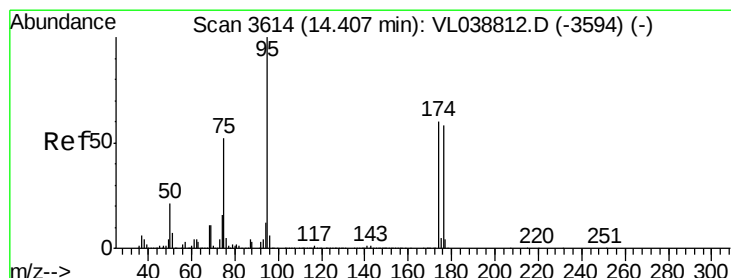
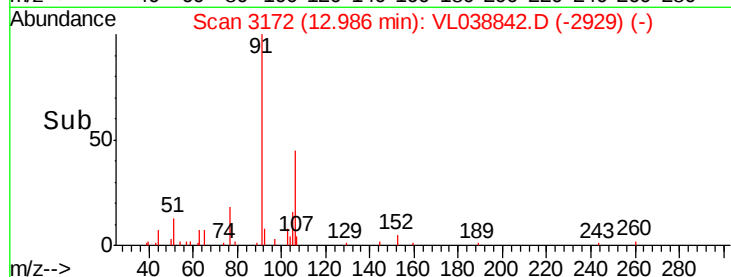
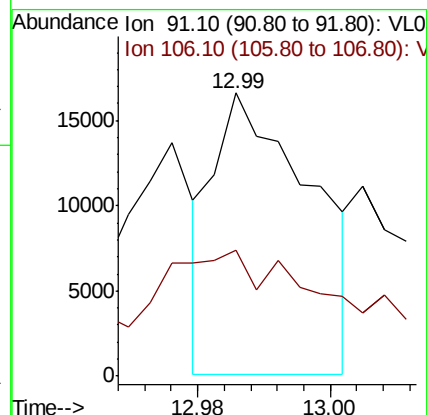
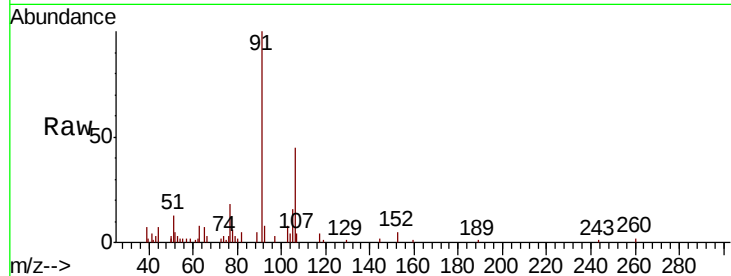
Acq: 7 Apr 2022 15:37

Tot Ion: 91 Resp: 16929

Ion Ratio Lower Upper

91 100

106 38.9 26.7 40.1



#68

1-Bromo-4-Fluorobenzene

Concen: 10.840 ppbv

RT: 14.43 min Scan# 3622

Delta R.T. 0.03 min

Lab File: VL038842.D

Acq: 7 Apr 2022 15:37

Tgt Ion: 95 Resp: 2162033

Ion Ratio Lower Upper

95 100

174 63.0 52.0 78.0

175 4.6 4.0 6.0

