

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL041322\
 Data File : VL038907.D
 Acq On : 13 Apr 2022 17:35
 Operator : SY/AP
 Sample : N2383-01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 1

Quant Time: Apr 25 08:28:51 2022
 Quant Method : Z:\VOASRV\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

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1026538	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2422011	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2057524	10.00	ppbv	0.01

System Monitoring Compounds

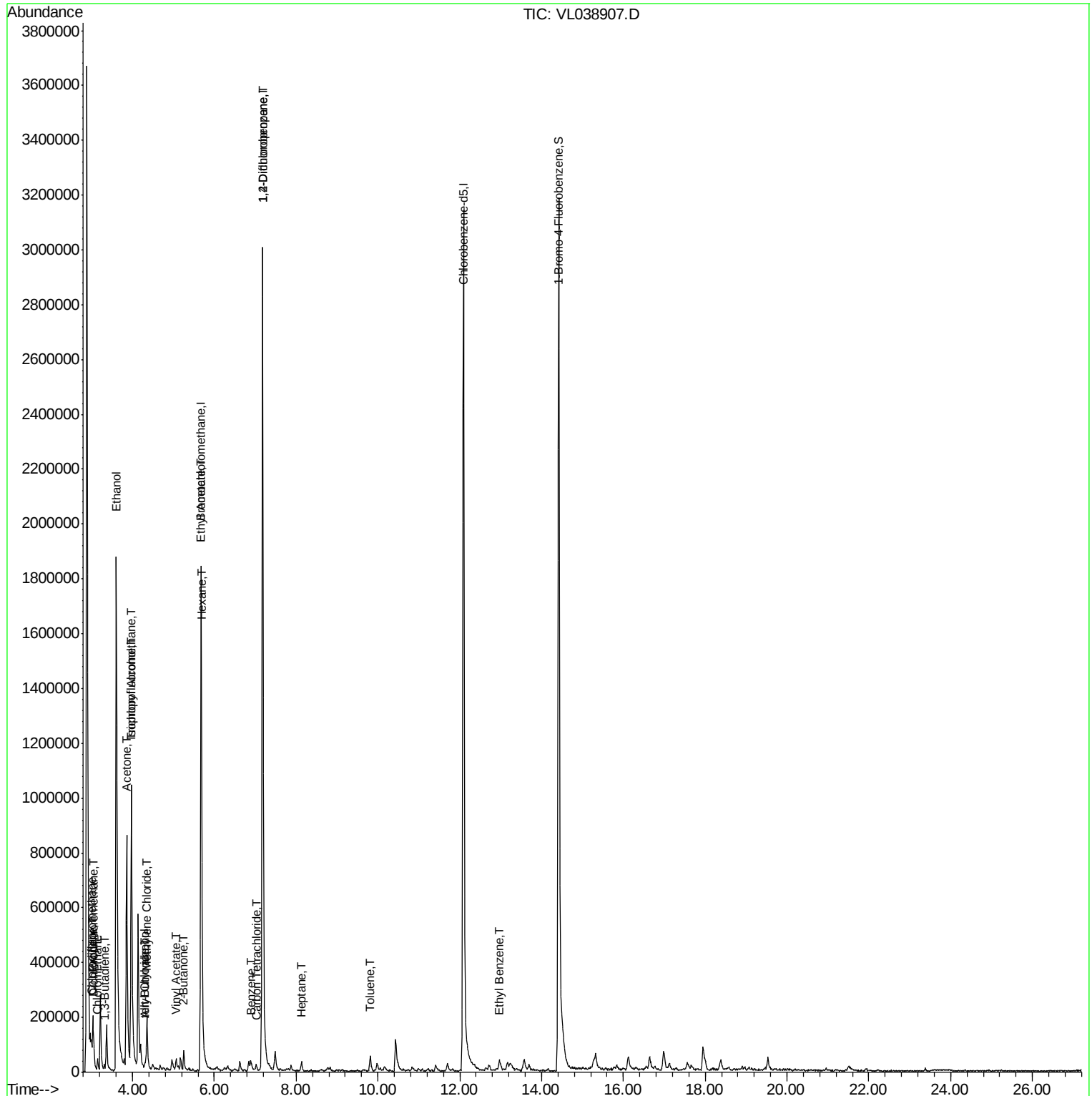
68) 1-Bromo-4-Fluorobenzene	14.42	95	1719087	11.01	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	110.10%

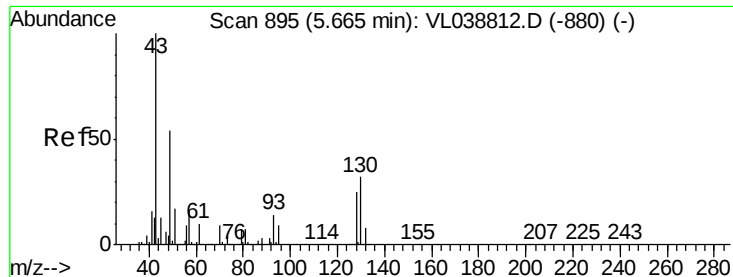
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	50164	0.345	ppbv	98
3) Chlorodifluoromethane	3.00	51	169564	1.353	ppbv #	90
4) Chloromethane	3.14	50	18691	0.288	ppbv	99
9) Propene	3.03	41	41195	0.621	ppbv #	69
10) Heptane	8.13	43	10533	0.063	ppbv #	70
11) Trichlorofluoromethane	3.96	101	46934	0.401	ppbv	95
13) Ethanol	3.60	45	2507606	622.524	ppbv #	100
15) Acetone	3.85	43	1099075	10.754	ppbv	99
16) 1,3-Butadiene	3.31	39	2554	0.044	ppbv #	81
17) tert-Butyl alcohol	4.30	59	4768	0.052	ppbv #	72
19) Isopropyl Alcohol	3.97	45	1246802	23.869	ppbv #	100
20) Methylene Chloride	4.35	84	42361	1.143	ppbv	96
21) Allyl Chloride	4.30	41	2553	0.033	ppbv #	1
23) Vinyl Acetate	5.08	43	11489	0.115	ppbv #	90
25) Ethyl Acetate	5.69	43	76423	0.295	ppbv #	89
26) Hexane	5.69	57	86986	0.737	ppbv #	46
34) 2-Butanone	5.25	43	88256	0.922	ppbv #	88
35) Carbon Tetrachloride	7.02	117	4591	0.032	ppbv #	63
36) Benzene	6.90	78	21265	0.097	ppbv #	69
39) 1,2-Dichloropropane	7.18	63	657824	7.806	ppbv #	27
53) Toluene	9.81	91	20871	0.082	ppbv #	20
58) Ethyl Benzene	12.97	91	16219	0.053	ppbv	93

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

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 13 Apr 2022 17:35

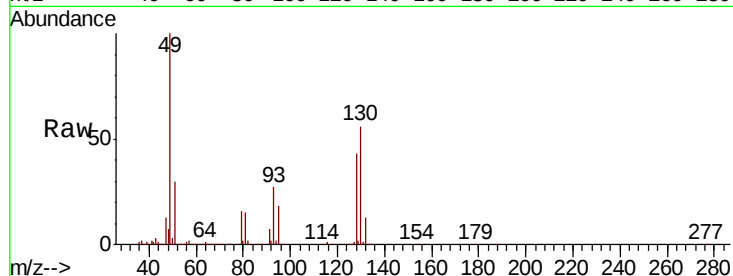
Tot Ion: 49 Resp: 1026538

Ion Ratio Lower Upper

49 100

128 45.4 24.1 72.3

130 58.4 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

5.67

600000

500000

400000

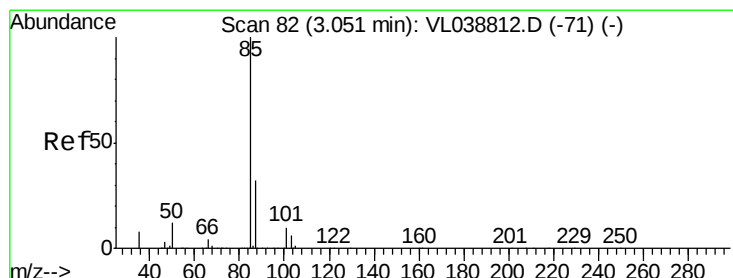
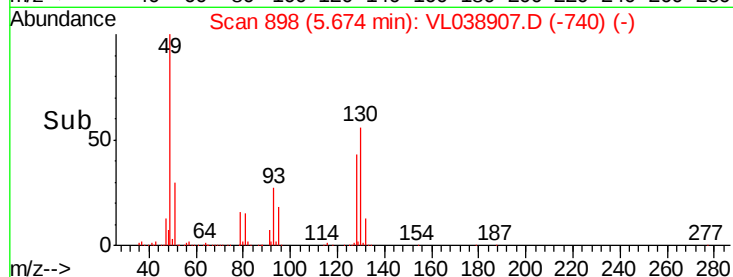
300000

200000

100000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.345 ppbv

RT: 3.05 min Scan# 83

Delta R.T. 0.00 min

Lab File: VL038907.D

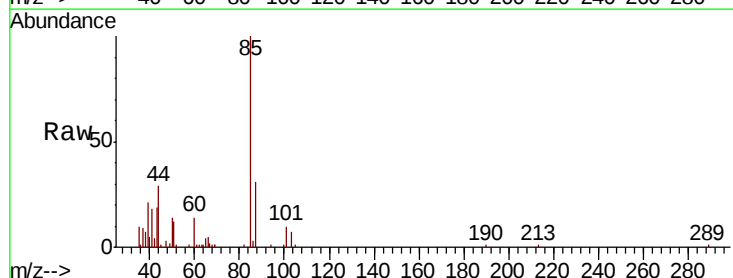
Acq: 13 Apr 2022 17:35

Tgt Ion: 85 Resp: 50164

Ion Ratio Lower Upper

85 100

87 31.3 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.05

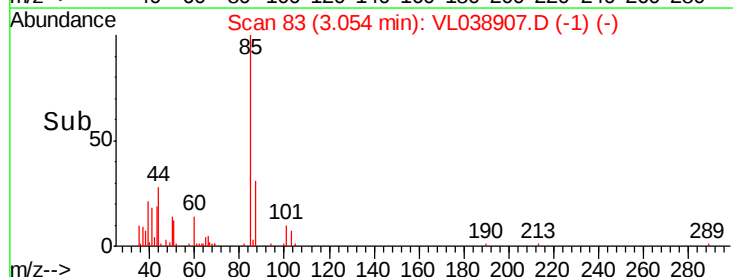
30000

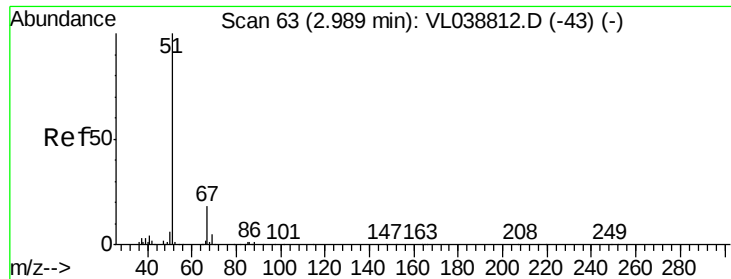
20000

10000

0

Time-->





#3

Chlorodifluoromethane

Concen: 1.353 ppbv

RT: 3.00 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

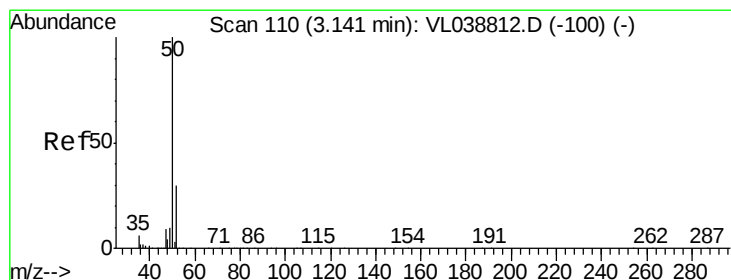
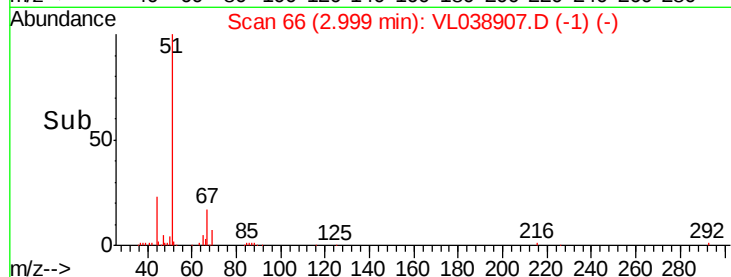
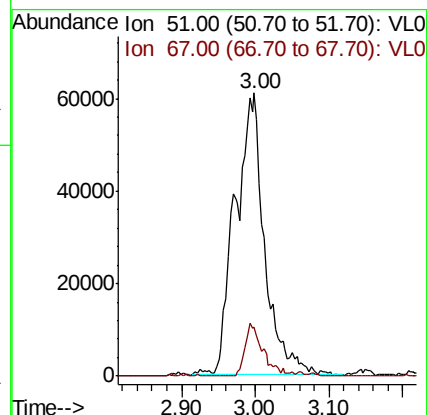
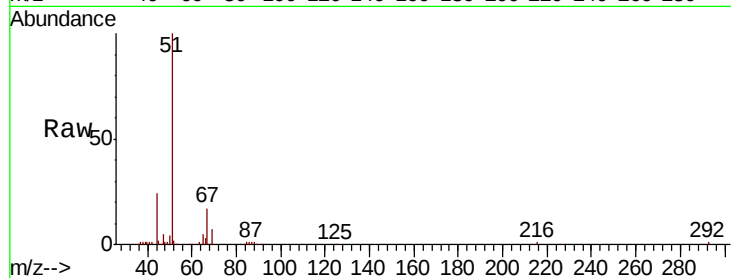
Acq: 13 Apr 2022 17:35

Tot Ion: 51 Resp: 169564

Ion Ratio Lower Upper

51 100

67 12.3 13.4 20.0#



#4

Chloromethane

Concen: 0.288 ppbv

RT: 3.14 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL038907.D

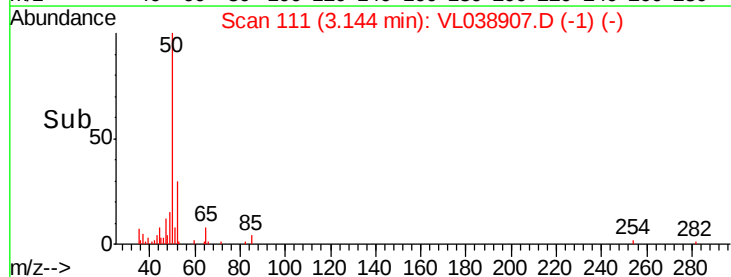
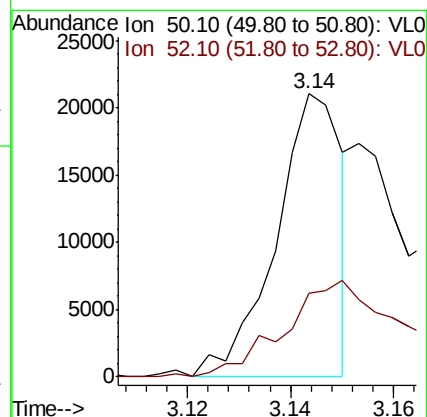
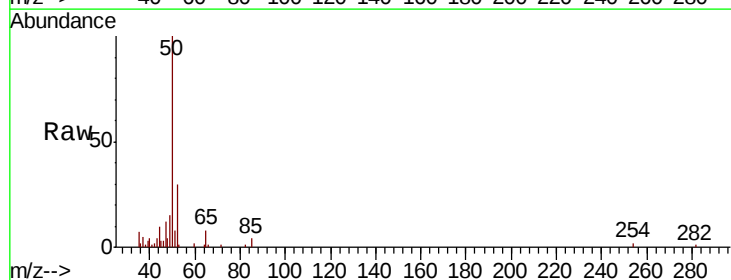
Acq: 13 Apr 2022 17:35

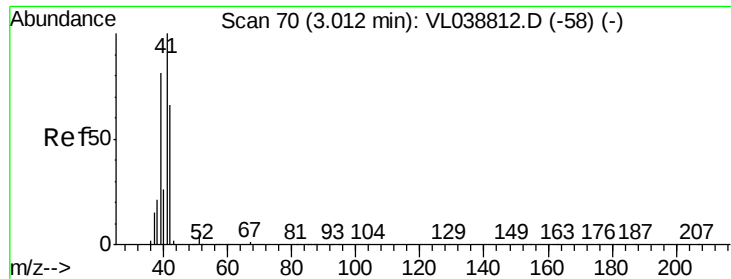
Tgt Ion: 50 Resp: 18691

Ion Ratio Lower Upper

50 100

52 29.8 24.3 36.5





#9

Propene

Concen: 0.621 ppbv

RT: 3.03 Instrument :

Delta R.T. MSVOA_1

Lab File: ClientSampleId :

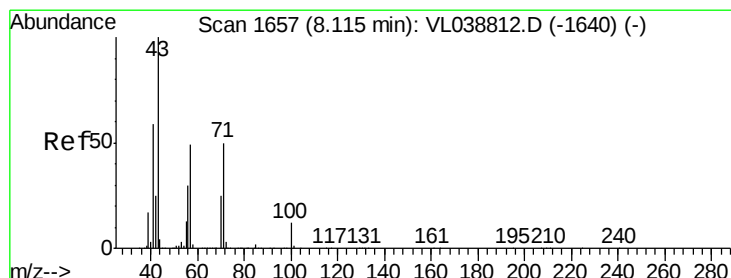
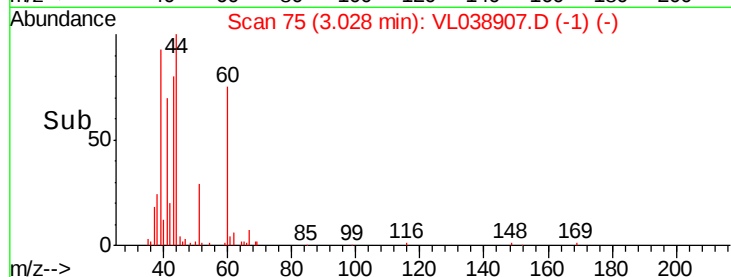
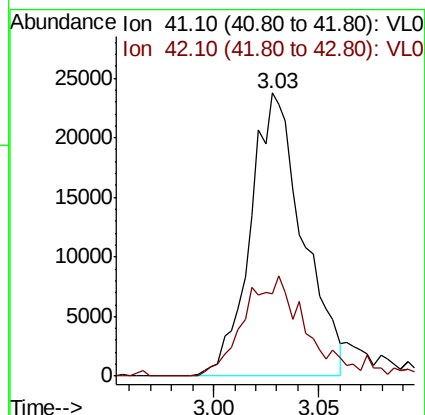
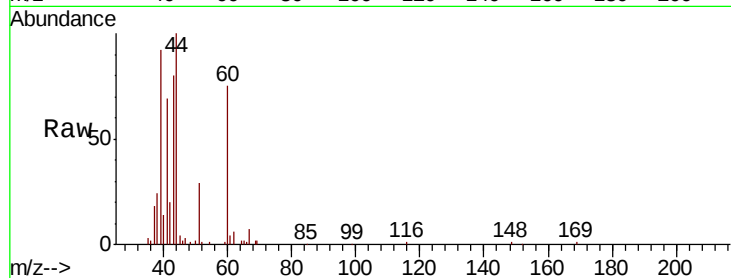
Acq: 13 Apr 2022 17:35

Tot Ion: 41 Resp: 41195

Ion Ratio Lower Upper

41 100

42 42.5 54.2 81.4#



#10

Heptane

Concen: 0.063 ppbv

RT: 8.13 min Scan# 1662

Delta R.T. 0.02 min

Lab File: VL038907.D

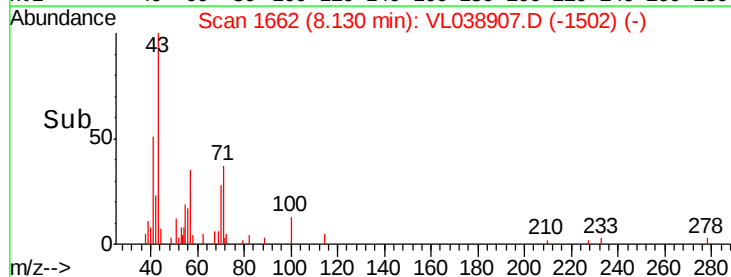
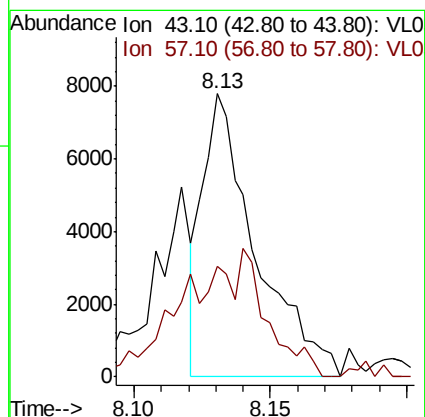
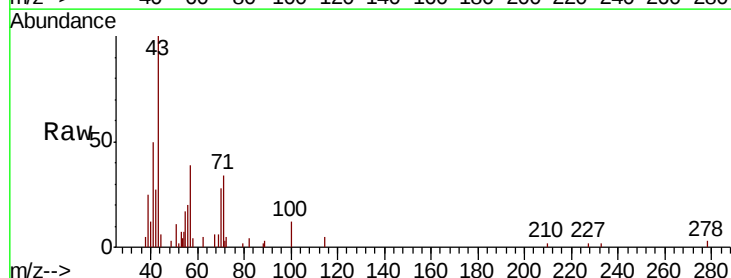
Acq: 13 Apr 2022 17:35

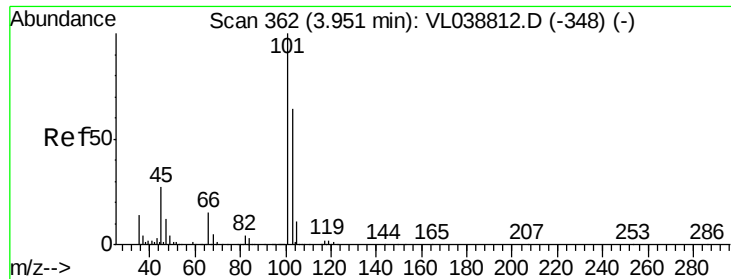
Tgt Ion: 43 Resp: 10533

Ion Ratio Lower Upper

43 100

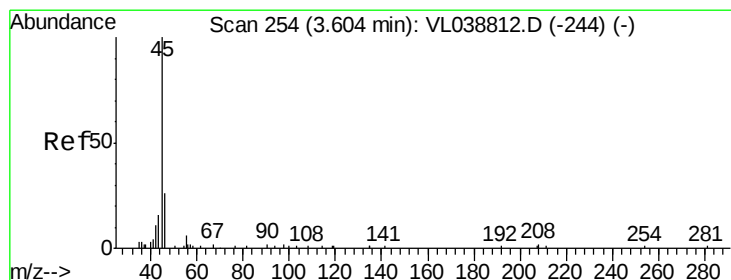
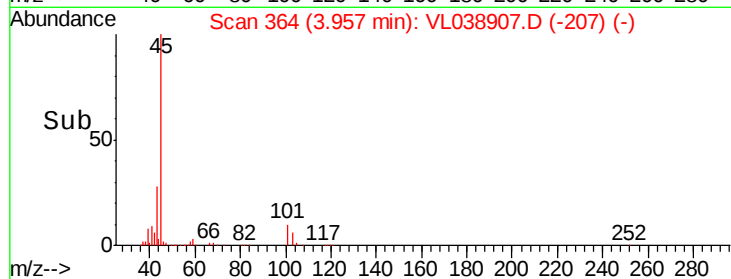
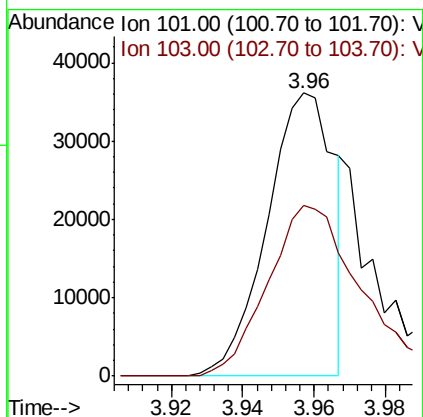
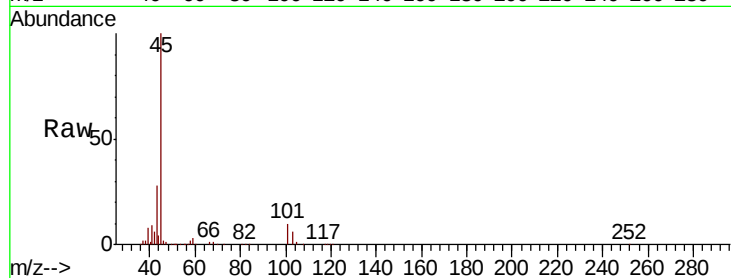
57 69.6 39.3 58.9#





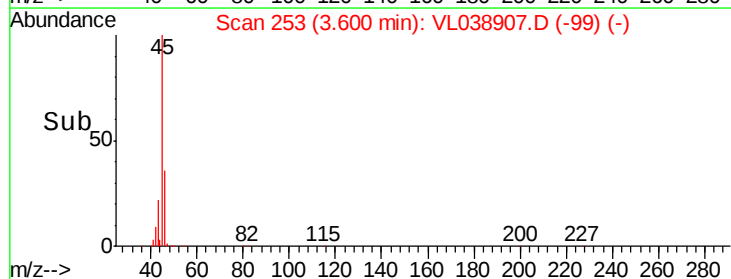
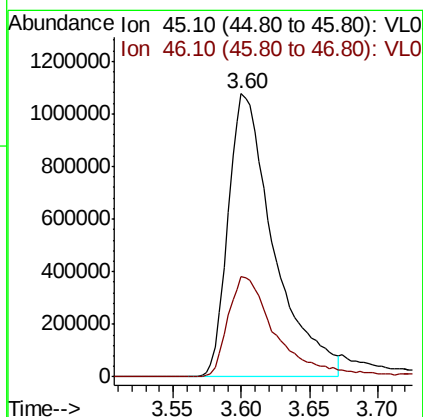
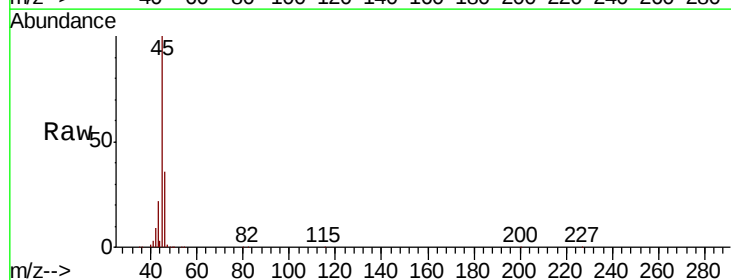
#11
 Trichlorofluoromethane
 Concen: 0.401 ppbv
 RT: 3.96
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 13 Apr 2022 17:35

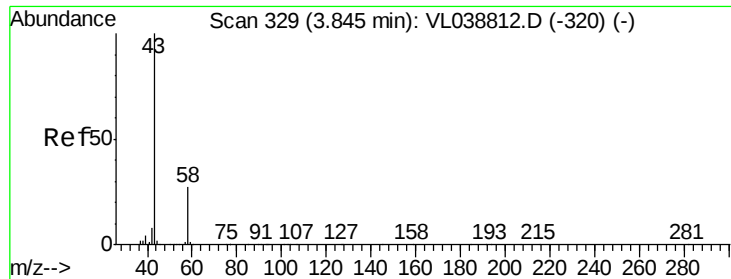
Tot Ion: 101 Resp: 46934
 Ion Ratio Lower Upper
 101 100
 103 60.2 51.4 77.0



#13
 Ethanol
 Concen: 622.524 ppbv
 RT: 3.60 min Scan# 253
 Delta R.T. -0.00 min
 Lab File: VL038907.D
 Acq: 13 Apr 2022 17:35

Tgt Ion: 45 Resp: 2507606
 Ion Ratio Lower Upper
 45 100
 46 38.7 0.0 0.0#





#15

Acetone

Concen: 10.754 ppbv

RT: 3.85 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

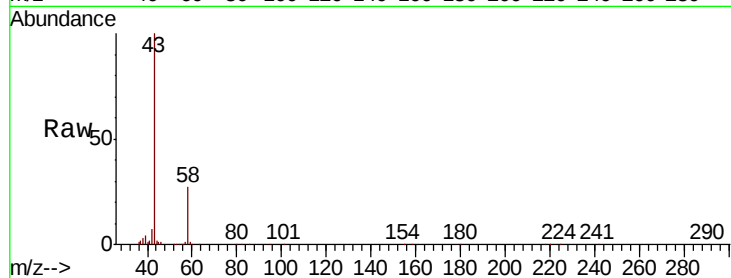
Acq: 13 Apr 2022 17:35

Tot Ion: 43 Resp: 1099075

Ion Ratio Lower Upper

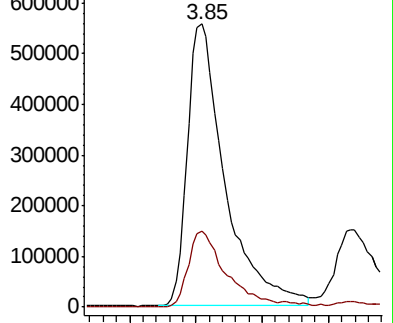
43 100

58 27.8 22.5 33.7

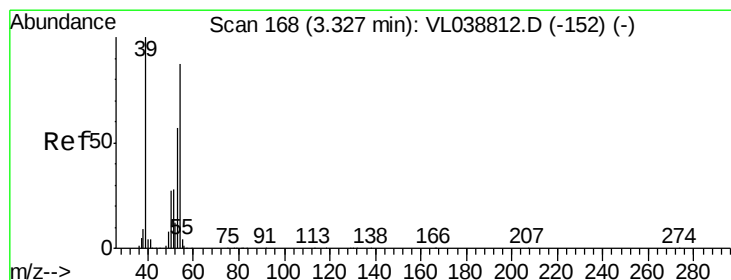
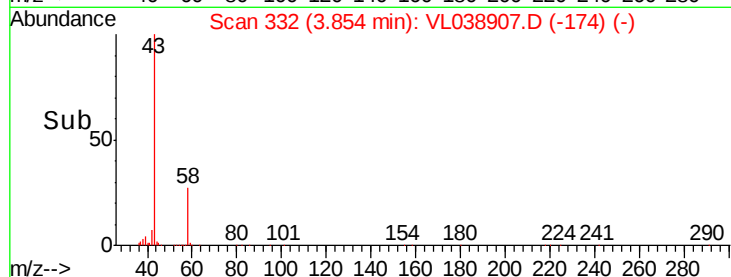


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



Time-->



#16

1,3-Butadiene

Concen: 0.044 ppbv

RT: 3.31 min Scan# 164

Delta R.T. -0.01 min

Lab File: VL038907.D

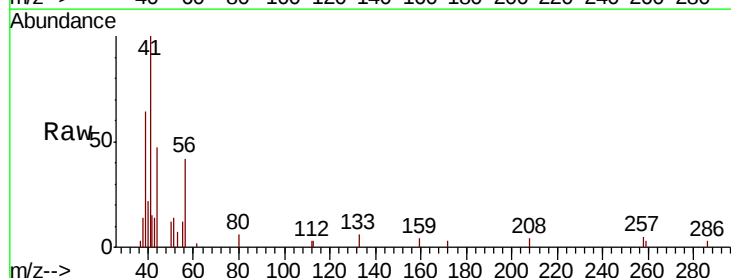
Acq: 13 Apr 2022 17:35

Tgt Ion: 39 Resp: 2554

Ion Ratio Lower Upper

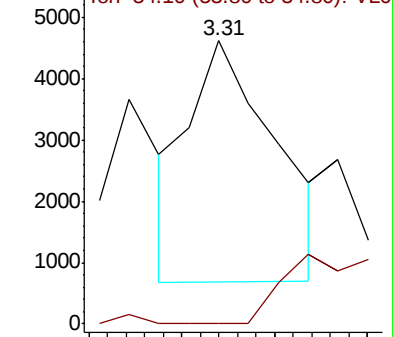
39 100

54 64.4 64.8 97.2#

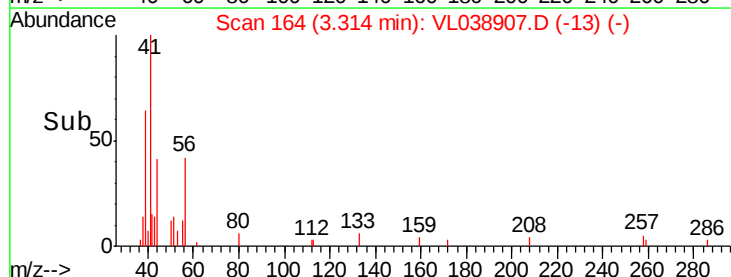


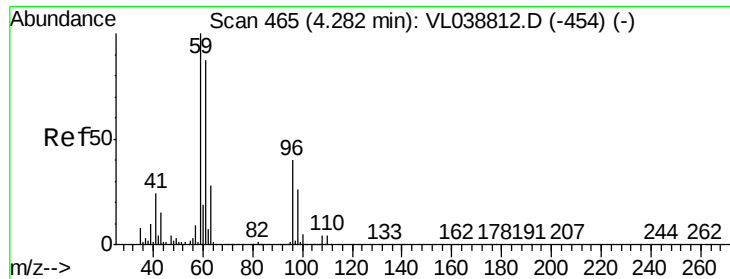
Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0



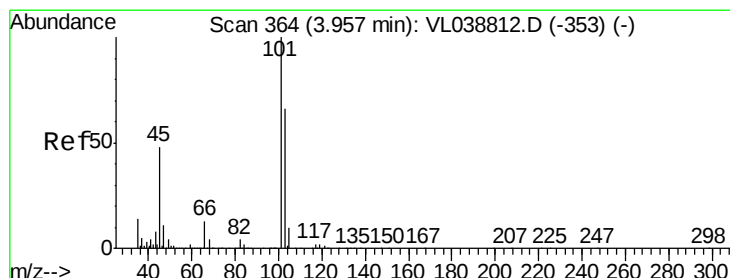
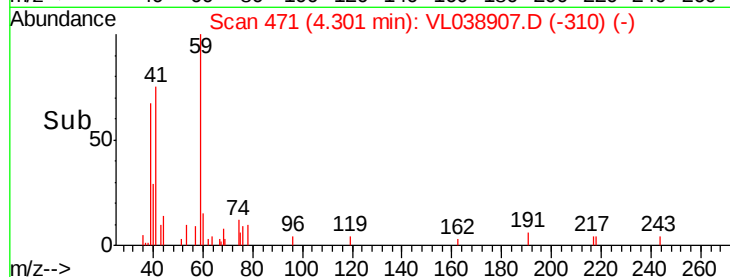
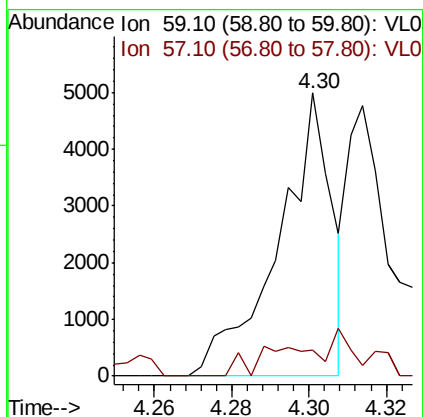
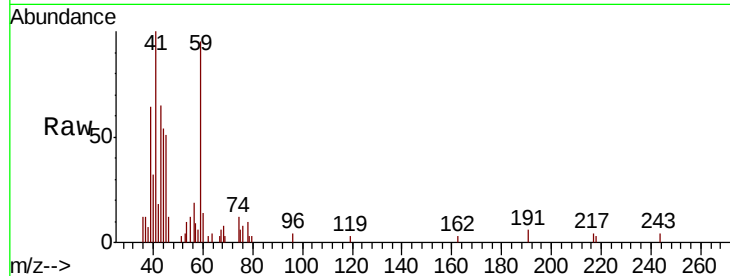
Time-->





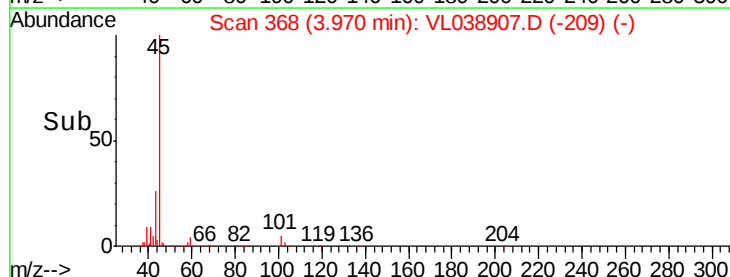
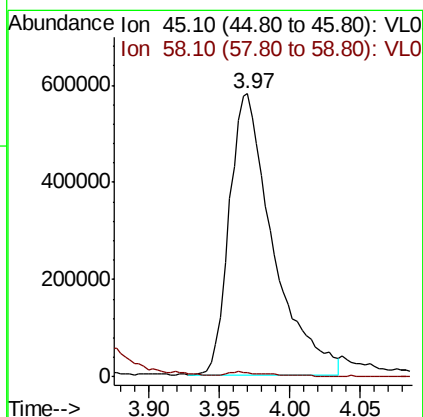
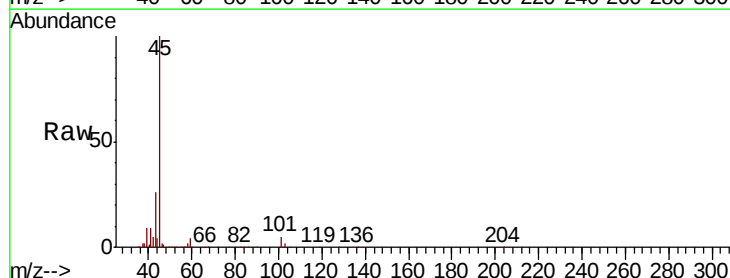
#17
 tert-Butyl alcohol
 Concen: 0.052 ppbv
 RT: 4.30
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 13 Apr 2022 17:35

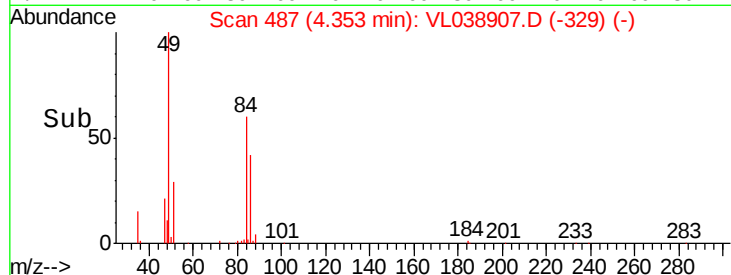
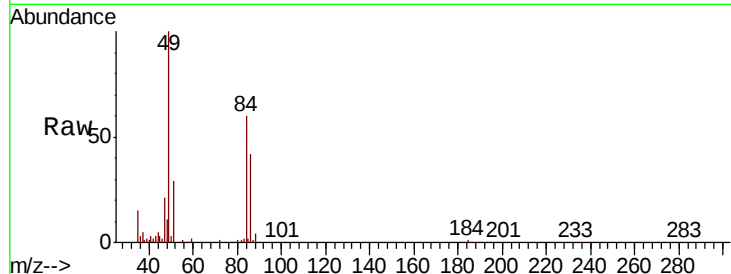
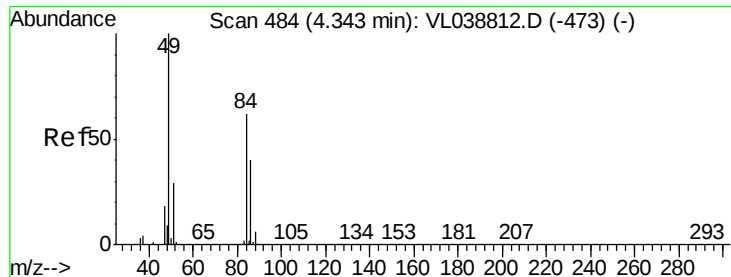
Tot Ion: 59 Resp: 4768
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.5 12.7#



#19
 Isopropyl Alcohol
 Concen: 23.869 ppbv
 RT: 3.97 min Scan# 368
 Delta R.T.: 0.01 min
 Lab File: VL038907.D
 Acq: 13 Apr 2022 17:35

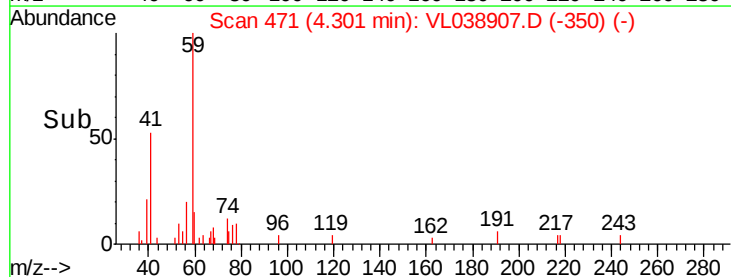
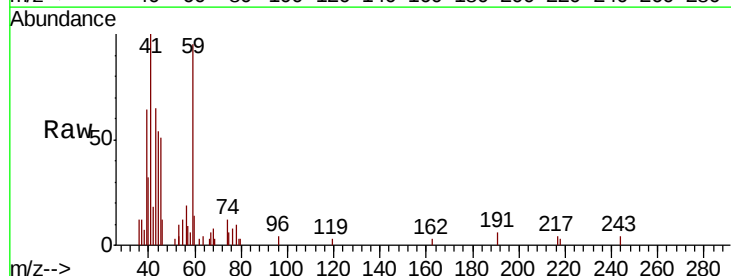
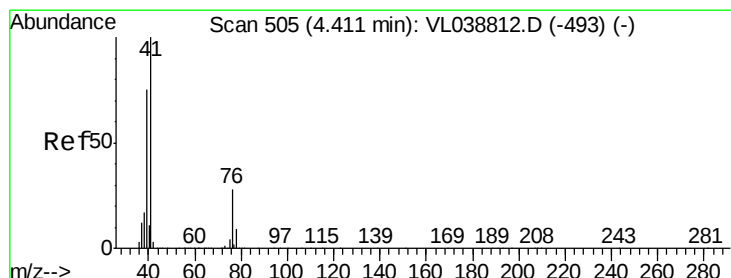
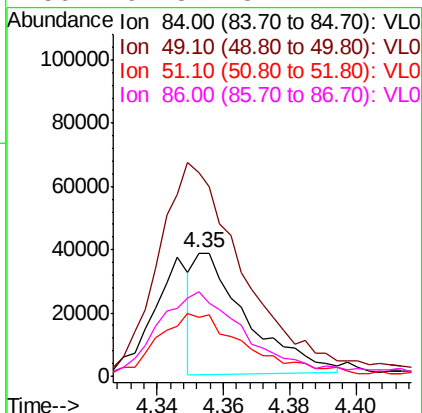
Tgt Ion: 45 Resp: 1246802
 Ion Ratio Lower Upper
 45 100
 58 2.4 0.0 0.0#





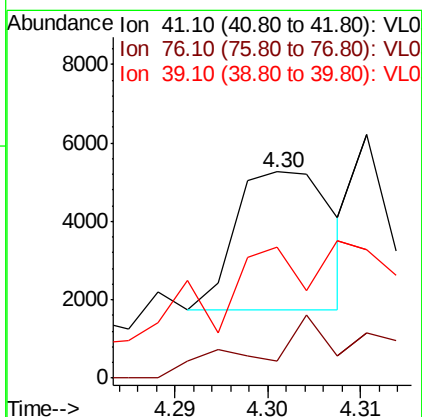
#20
Methylene Chloride
Concen: 1.143 ppbv
RT: 4.35
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 13 Apr 2022 17:35

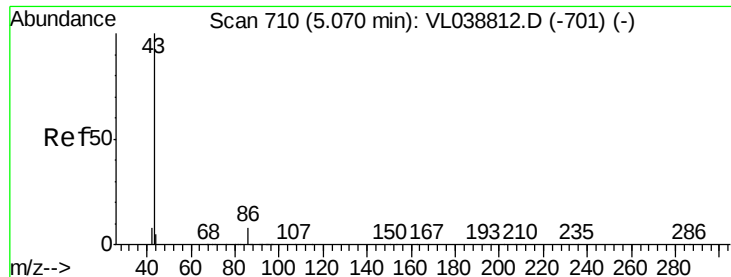
Tot Ion:	84	Resp:	42361
Ion	Ratio	Lower	Upper
84	100		
49	166.2	129.4	194.0
51	43.7	37.4	56.2
86	67.3	51.4	77.2



#21
Allyl Chloride
Concen: 0.033 ppbv
RT: 4.30 min Scan# 471
Delta R.T. -0.11 min
Lab File: VL038907.D
Acq: 13 Apr 2022 17:35

Tgt Ion:	41	Resp:	2553
Ion	Ratio	Lower	Upper
41	100		
76	70.4	23.7	35.5#
39	315.8	62.0	93.0#





#23

Vinyl Acetate

Concen: 0.115 ppbv

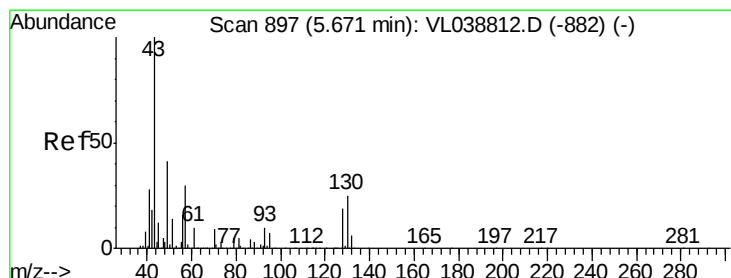
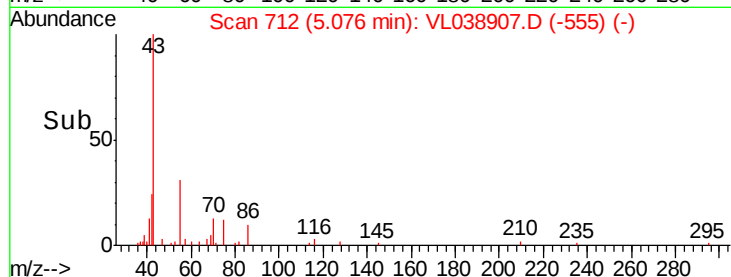
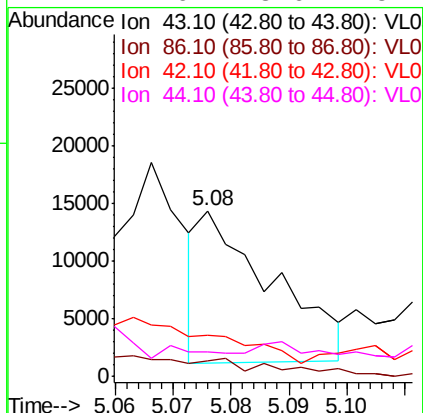
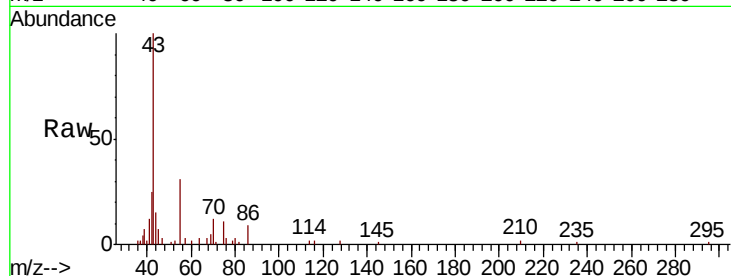
RT: 5.08 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 13 Apr 2022 17:35

Tot Ion:	43	Resp:	11489
Ion	Ratio	Lower	Upper
43	100		
86	6.6	5.8	8.6
42	16.1	7.8	11.6#
44	2.6	3.6	5.4#



#25

Ethyl Acetate

Concen: 0.295 ppbv

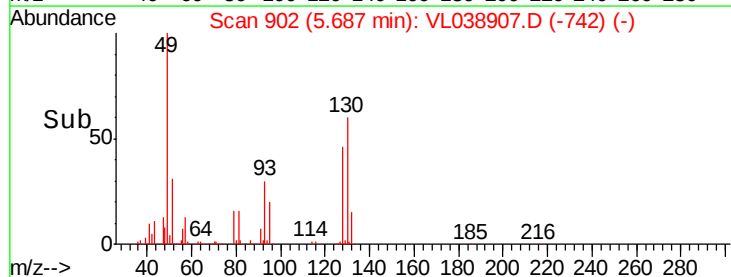
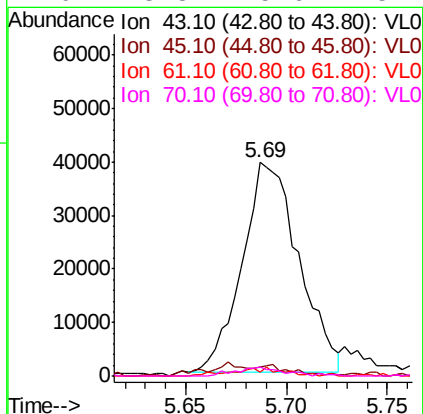
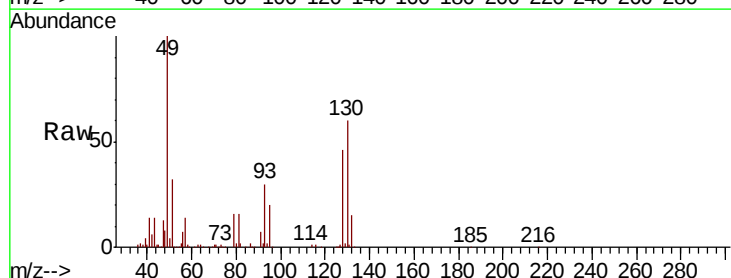
RT: 5.69 min Scan# 902

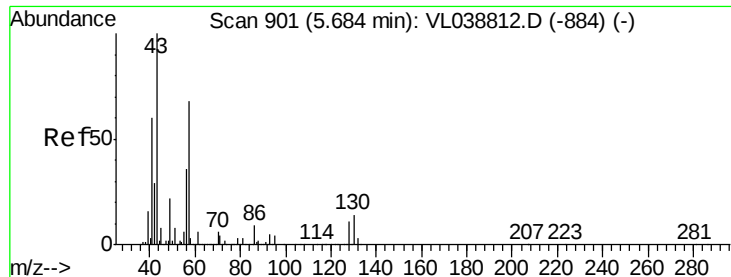
Delta R.T. 0.02 min

Lab File: VL038907.D

Acq: 13 Apr 2022 17:35

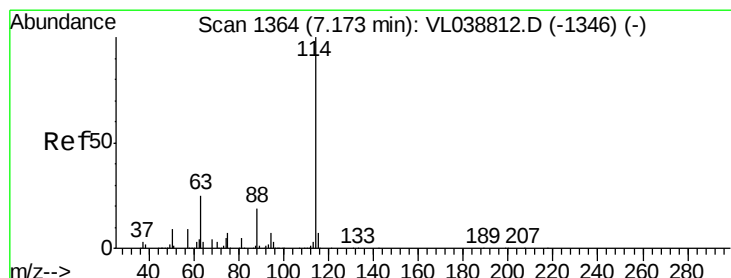
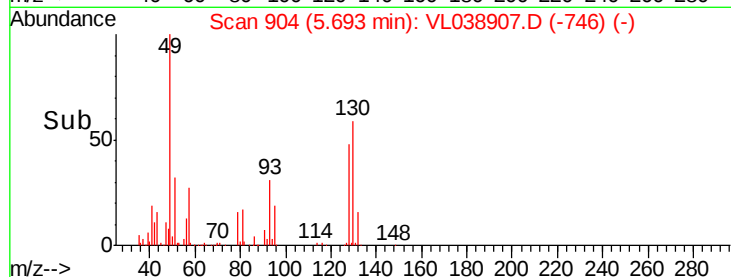
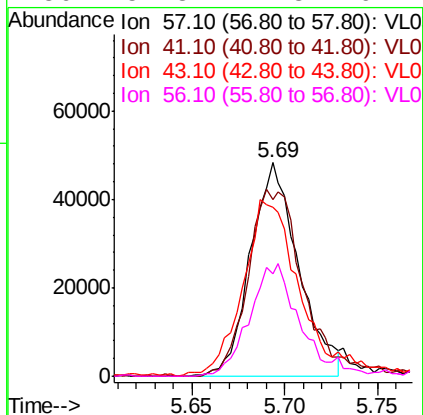
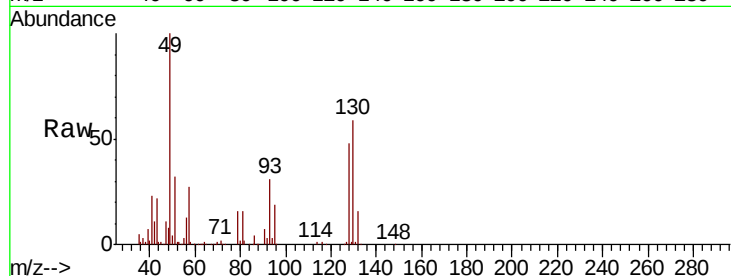
Tgt Ion:	43	Resp:	76423
Ion	Ratio	Lower	Upper
43	100		
45	8.2	8.4	12.6#
61	3.6	7.9	11.9#
70	3.8	5.6	8.4#





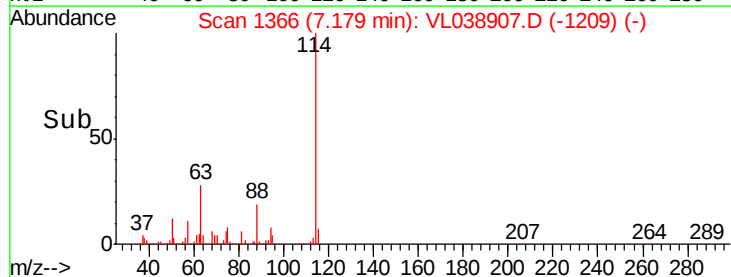
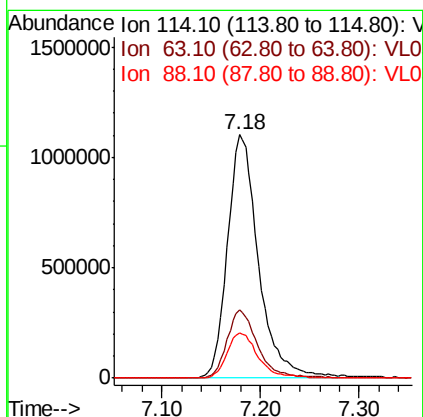
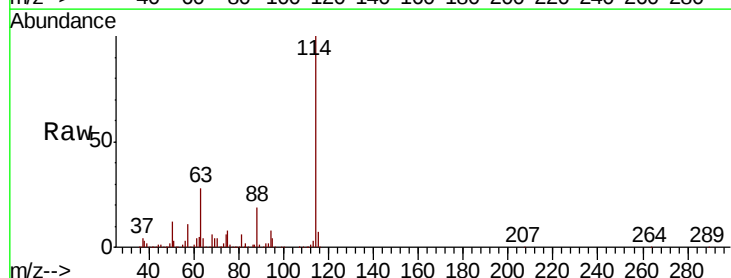
#26
Hexane
Concen: 0.737 ppbv
RT: 5.69
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 13 Apr 2022 17:35

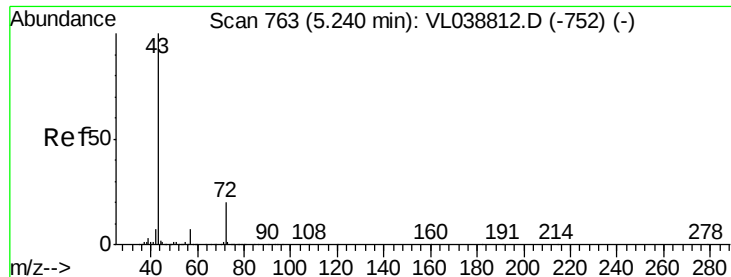
Tot Ion:	57	Resp:	86986
Ion	Ratio	Lower	Upper
57	100		
41	103.8	72.0	108.0
43	99.0	186.6	280.0#
56	57.8	42.8	64.2



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1366
Delta R.T. 0.01 min
Lab File: VL038907.D
Acq: 13 Apr 2022 17:35

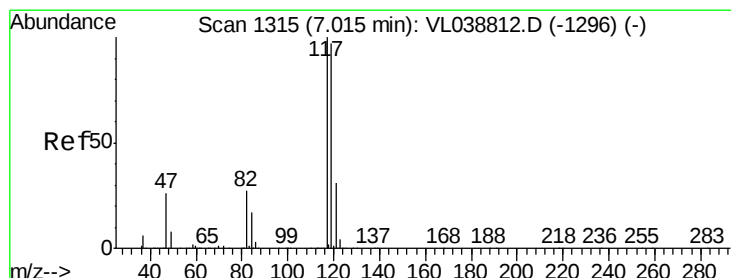
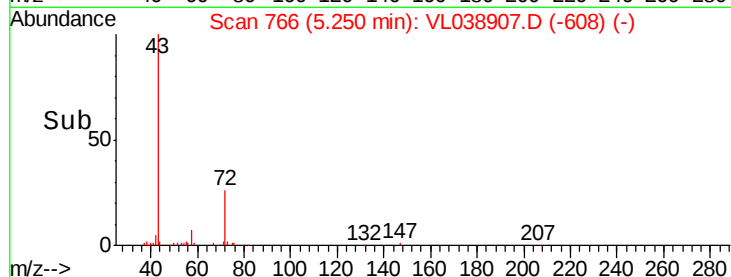
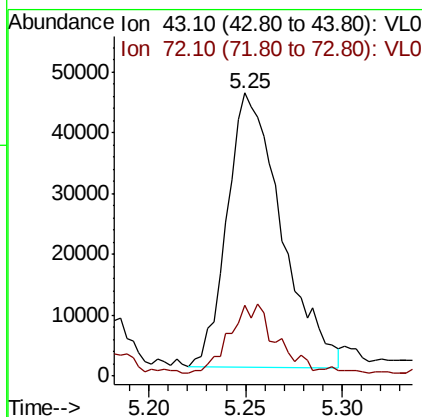
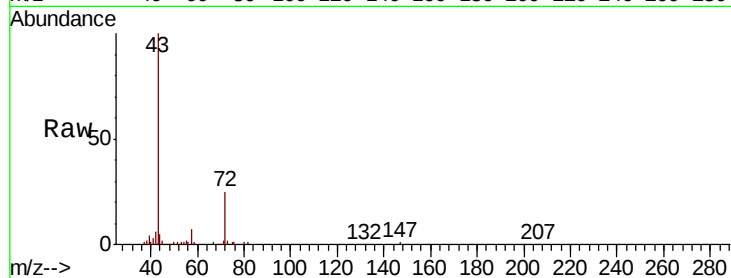
Tgt Ion:	114	Resp:	2422011
Ion	Ratio	Lower	Upper
114	100		
63	28.0	19.8	29.8
88	19.0	14.2	21.4





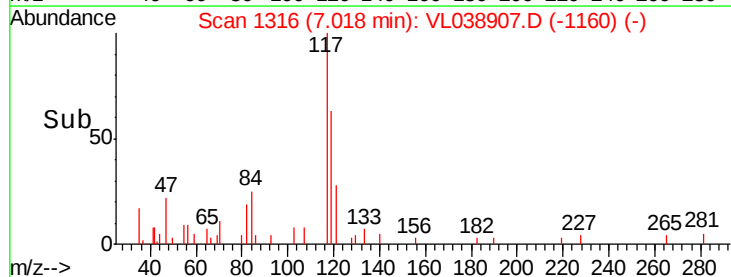
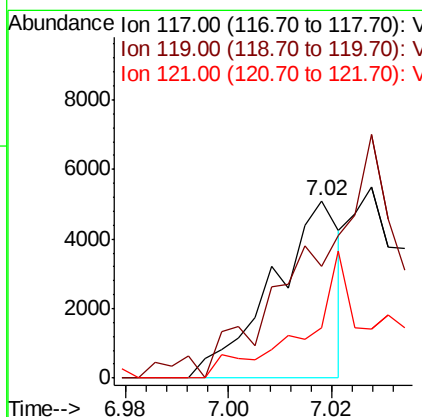
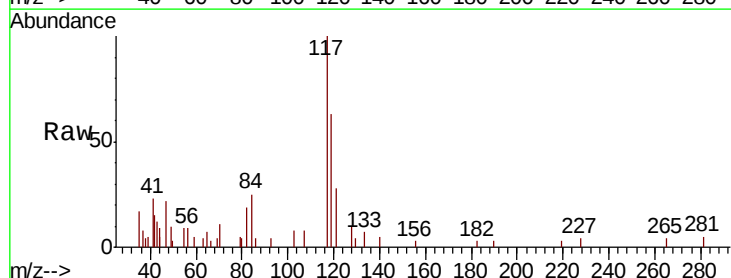
#34
2-Butanone
Concen: 0.922 ppbv
RT: 5.25 Instrument : MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 13 Apr 2022 17:35

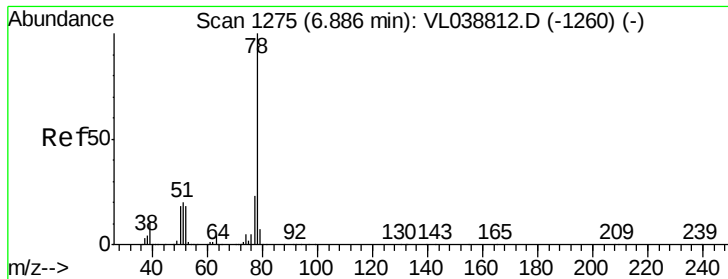
Tot Ion: 43 Resp: 88256
Ion Ratio Lower Upper
43 100
72 26.7 16.9 25.3#



#35
Carbon Tetrachloride
Concen: 0.032 ppbv
RT: 7.02 min Scan# 1316
Delta R.T. 0.00 min
Lab File: VL038907.D
Acq: 13 Apr 2022 17:35

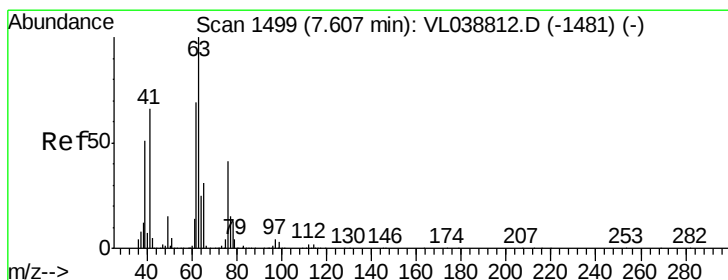
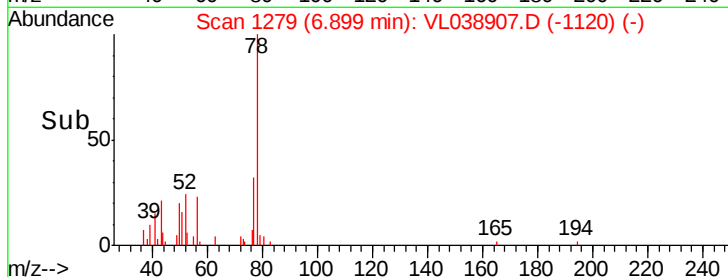
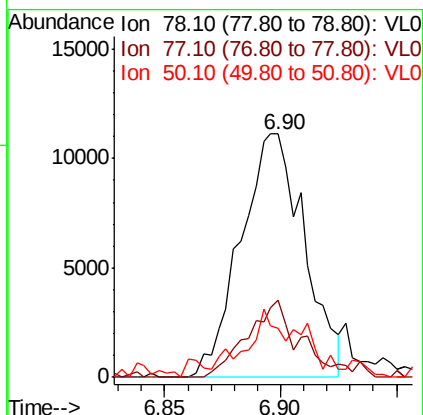
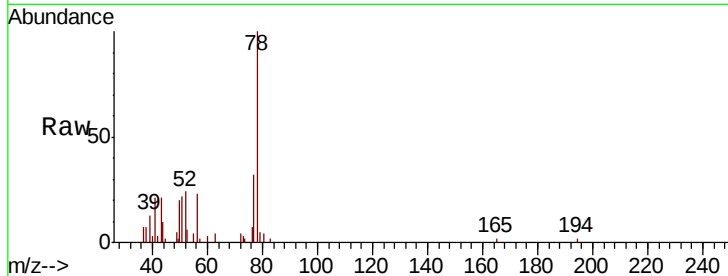
Tgt Ion: 117 Resp: 4591
Ion Ratio Lower Upper
117 100
119 50.7 77.7 116.5#
121 28.4 24.5 36.7





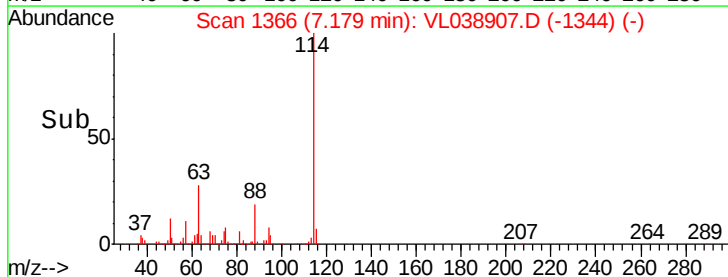
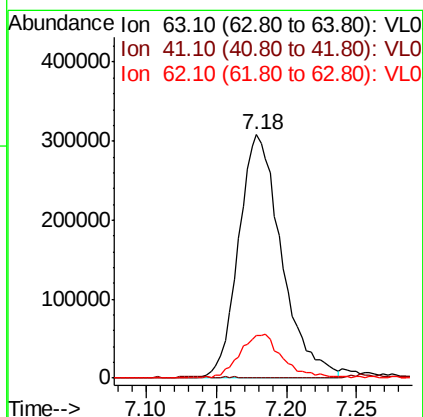
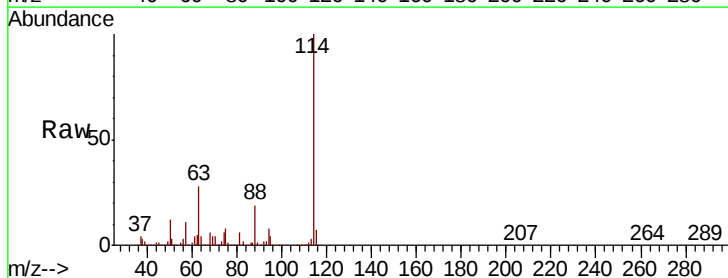
#36
Benzene
Concen: 0.097 ppbv
RT: 6.90
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 13 Apr 2022 17:35

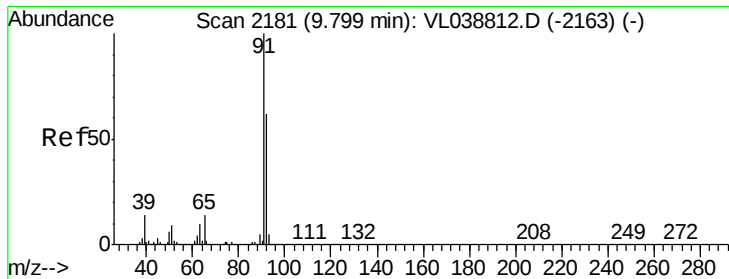
Tot Ion	Ratio	Lower	Upper
78	100		
77	32.0	18.2	27.2#
50	38.2	14.0	21.0#



#39
1,2-Dichloropropane
Concen: 7.806 ppbv
RT: 7.18 min Scan# 1366
Delta R.T. -0.43 min
Lab File: VL038907.D
Acq: 13 Apr 2022 17:35

Tgt Ion	Ratio	Lower	Upper
63	100		
41	0.1	53.0	79.6#
62	17.5	55.0	82.4#





#53

Toluene

Concen: 0.082 ppbv

RT: 9.81 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

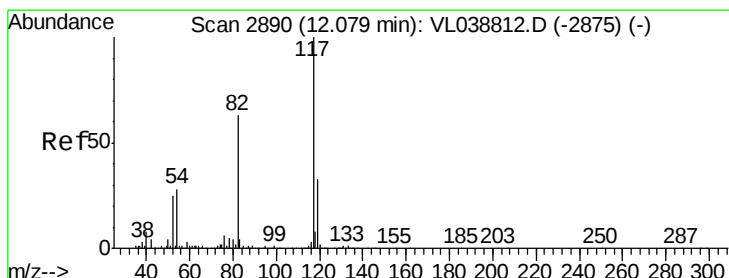
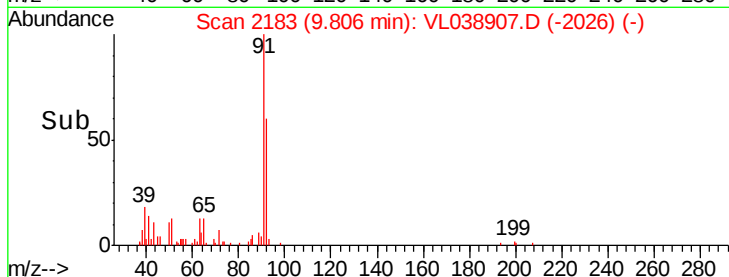
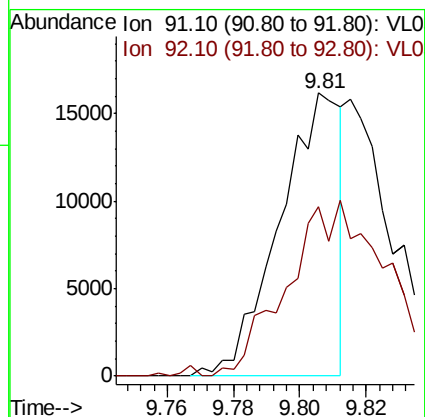
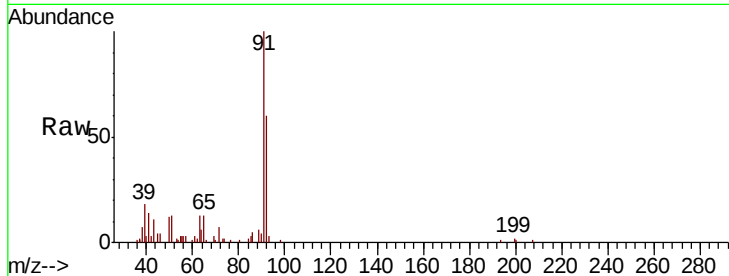
Acq: 13 Apr 2022 17:35

Tot Ion: 91 Resp: 20871

Ion Ratio Lower Upper

91 100

92 0.0 49.2 73.8#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2894

Delta R.T. 0.01 min

Lab File: VL038907.D

Acq: 13 Apr 2022 17:35

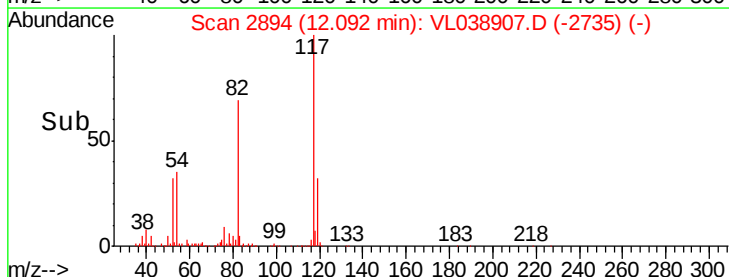
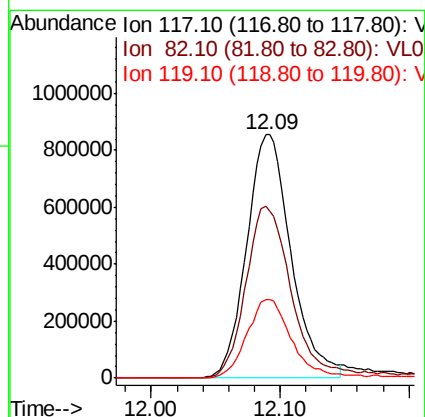
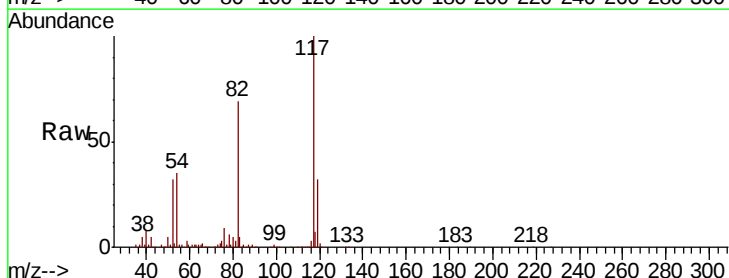
Tgt Ion: 117 Resp: 2057524

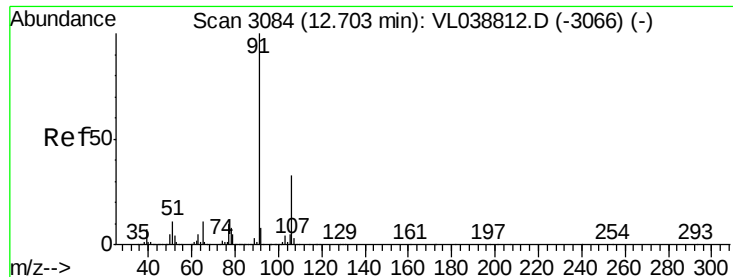
Ion Ratio Lower Upper

117 100

82 76.8 53.0 79.6

119 33.9 24.9 37.3





#58

Ethyl Benzene

Concen: 0.053 ppbv

RT: 12.97

Delta R.T. MSVOA_L

Lab File:

Acq: 13 Apr 2022 17:35

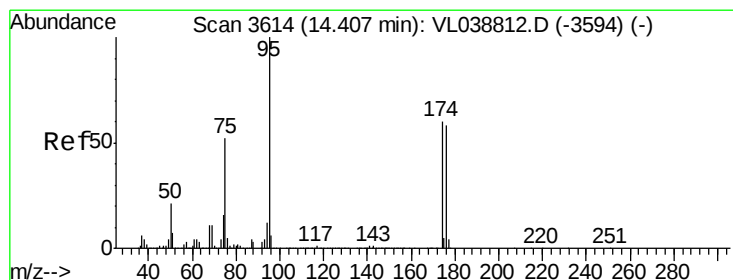
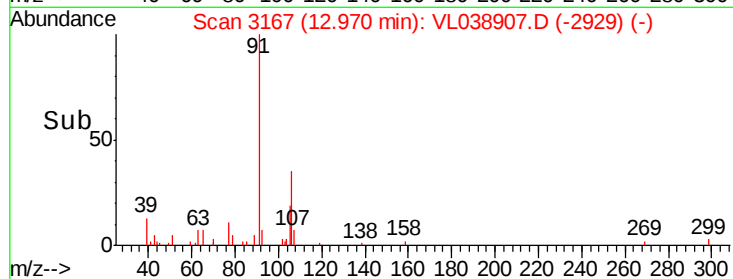
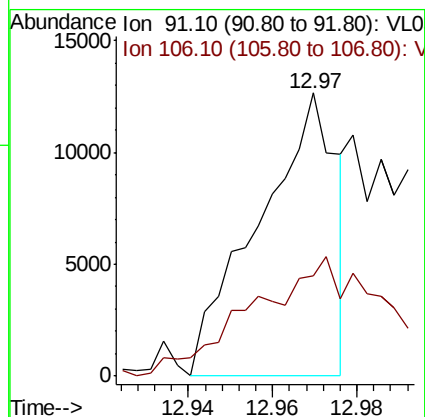
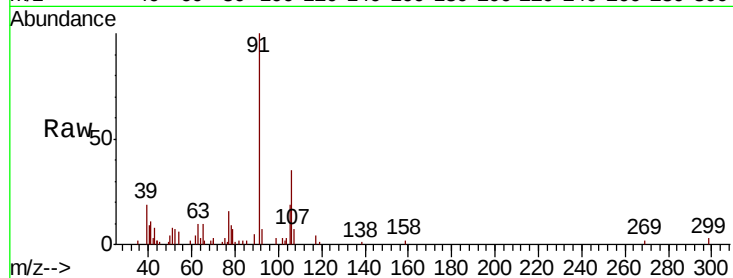
ClientSampleId:

Tot Ion: 91 Resp: 16219

Ion Ratio Lower Upper

91 100

106 29.2 26.7 40.1



#68

1-Bromo-4-Fluorobenzene

Concen: 11.015 ppbv

RT: 14.42 min Scan# 3618

Delta R.T. 0.01 min

Lab File: VL038907.D

Acq: 13 Apr 2022 17:35

Tgt Ion: 95 Resp: 1719087

Ion Ratio Lower Upper

95 100

174 64.6 52.0 78.0

175 4.6 4.0 6.0

