

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070522\
 Data File : VL039422.D
 Acq On : 5 Jul 2022 16:26
 Operator : SY/AP
 Sample : N3560-01 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Quant Time: Jul 06 02:35:22 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL062922AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul 06 02:15:38 2022
 QLast Update : Wed Jul 06 02:15:38 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1237347	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.18	114	3459501	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.09	117	2999012	10.00	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2293235	10.31	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.10%

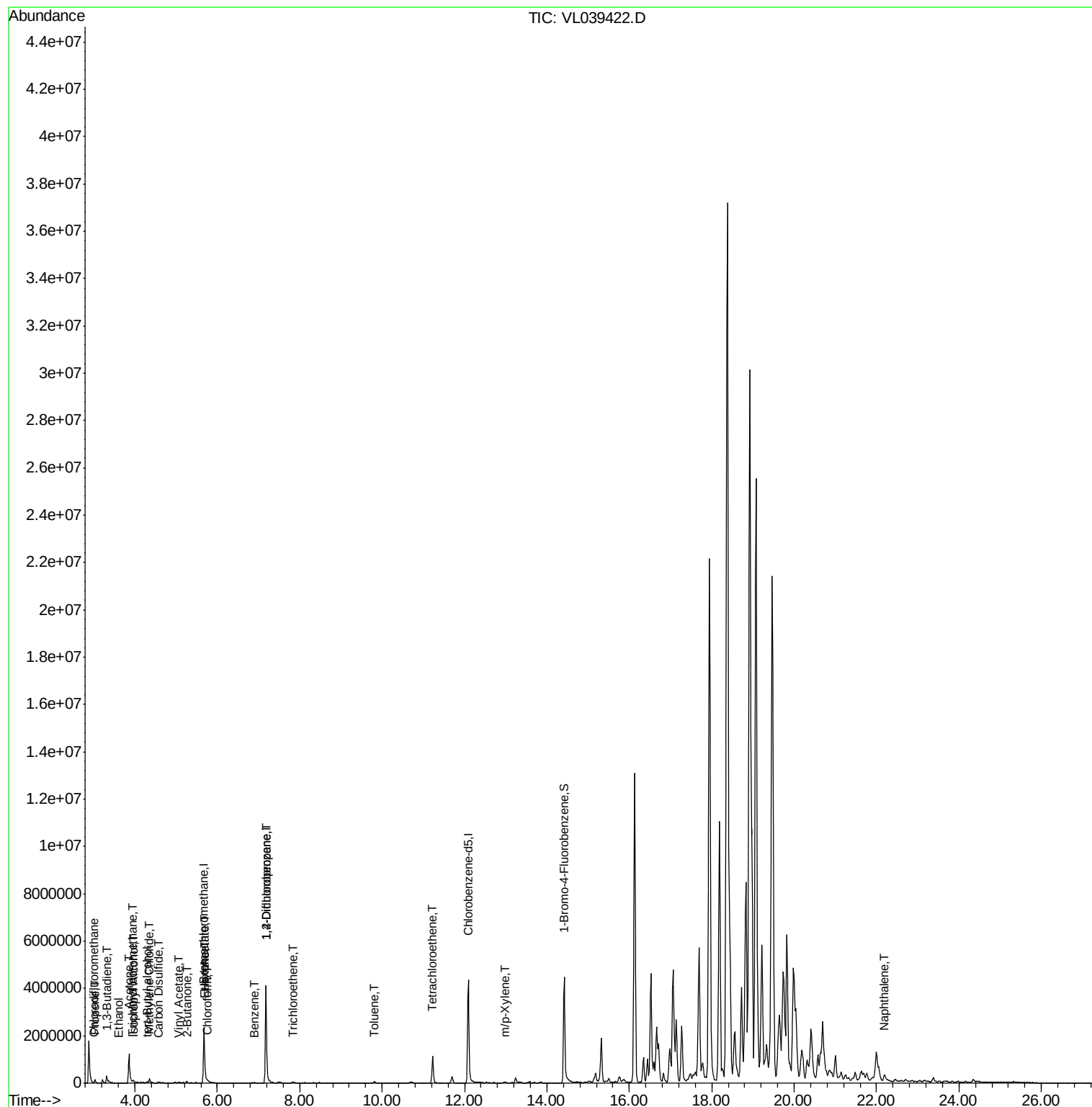
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	3.00	51	7800	0.050	ppbv #	72
9) Propene	3.03	41	47761	0.674	ppbv	96
11) Trichlorofluoromethane	3.96	101	41517	0.209	ppbv	95
13) Ethanol	3.62	45	8075	1.963	ppbv	77
15) Acetone	3.85	43	1744301	11.916	ppbv	98
16) 1,3-Butadiene	3.31	39	94732	1.247	ppbv #	18
17) tert-Butyl alcohol	4.30	59	24229	0.195	ppbv #	41
19) Isopropyl Alcohol	3.98	45	9724	0.125	ppbv #	88
20) Methylene Chloride	4.35	84	55494	0.951	ppbv	90
23) Vinyl Acetate	5.07	43	10031	0.103	ppbv #	50
25) Ethyl Acetate	5.69	43	45247	0.151	ppbv #	80
26) Hexane	5.69	57	63975	0.529	ppbv #	36
27) Carbon Disulfide	4.56	76	11019	0.075	ppbv #	79
29) Chloroform	5.76	83	22731	0.108	ppbv #	70
34) 2-Butanone	5.26	43	100078	0.575	ppbv	94
36) Benzene	6.89	78	15245	0.057	ppbv #	72
38) Trichloroethene	7.84	130	6431	0.044	ppbv #	81
39) 1,2-Dichloropropane	7.18	63	862602	8.624	ppbv #	25
52) Tetrachloroethene	11.22	164	288895	2.680	ppbv	95
53) Toluene	9.81	91	48957	0.159	ppbv	99
59) m/p-Xylene	12.99	91	12034	0.035	ppbv #	32
79) Naphthalene	22.20	128	10823	0.041	ppbv #	88

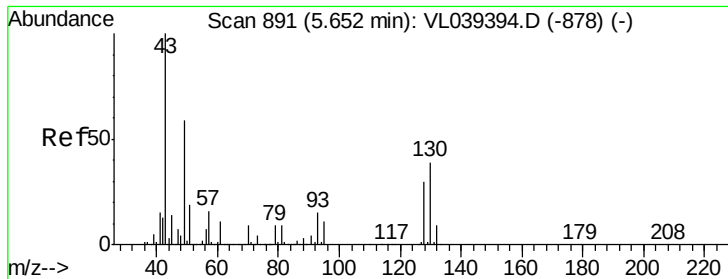
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 5 Jul 2022 16:26 SV1

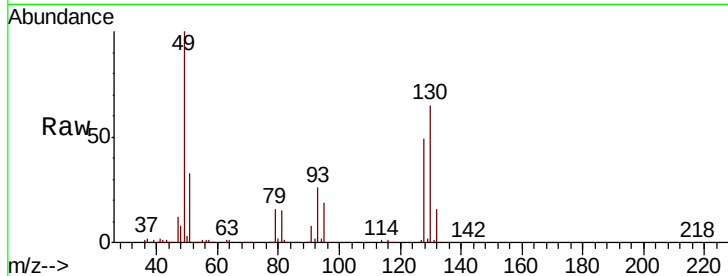
Tot Ion: 49 Resp: 1237347

Ion Ratio Lower Upper

49 100

128 54.7 26.7 80.0

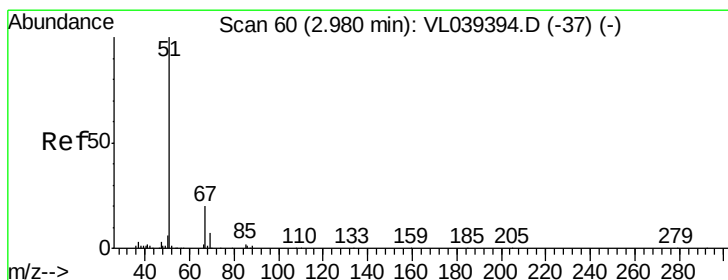
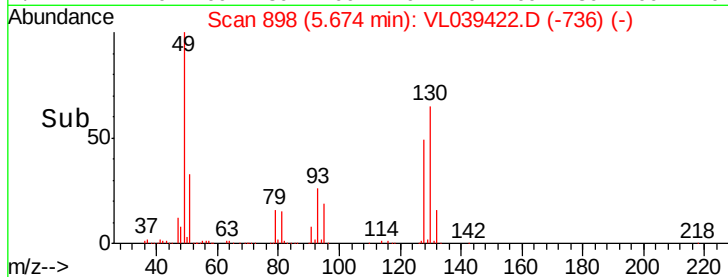
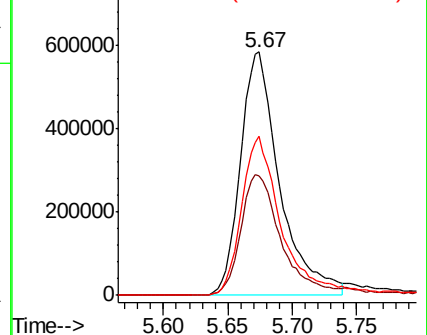
130 68.1 34.3 102.8



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#3

Chlorodifluoromethane

Concen: 0.050 ppbv

RT: 3.00 min Scan# 67

Delta R.T. 0.02 min

Lab File: VL039422.D

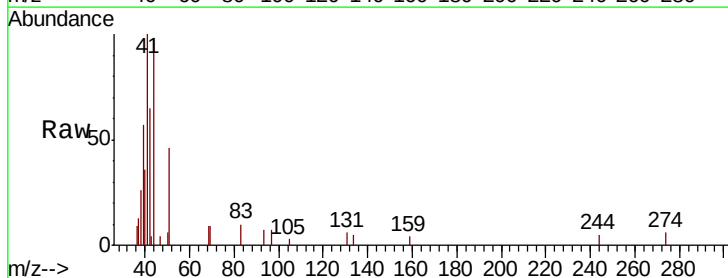
Acq: 5 Jul 2022 16:26

Tgt Ion: 51 Resp: 7800

Ion Ratio Lower Upper

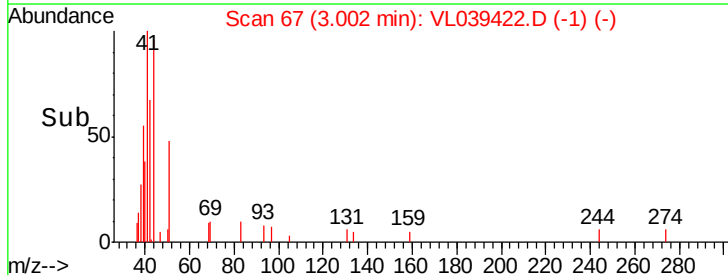
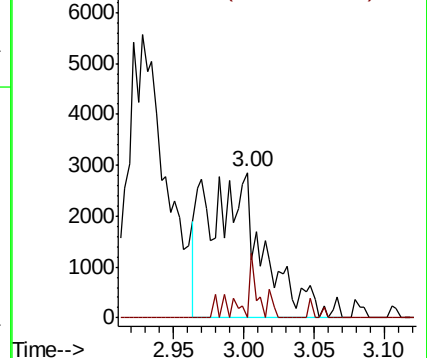
51 100

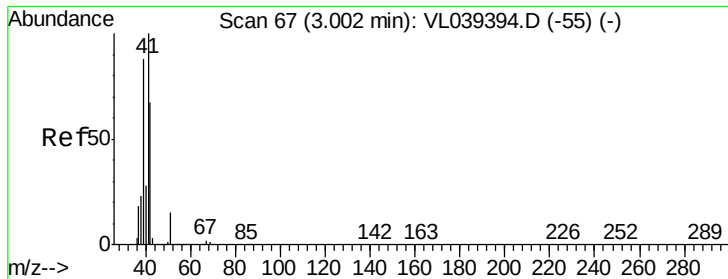
67 6.9 15.7 23.5#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.674 ppbv

RT: 3.03 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

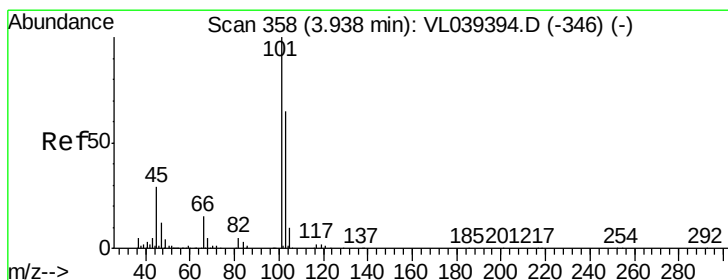
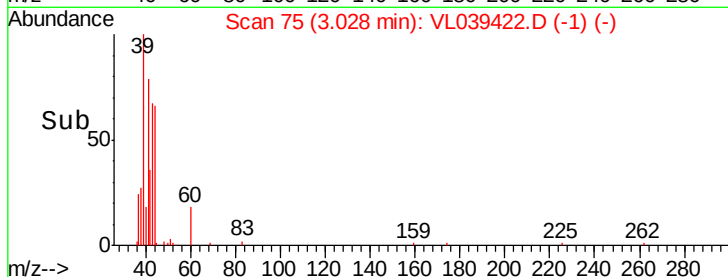
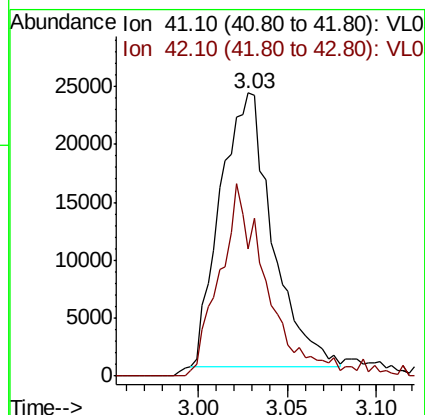
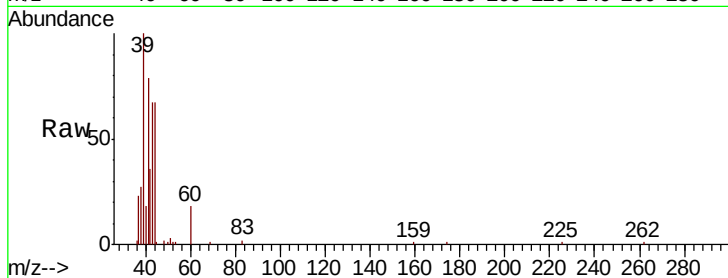
Acq: 5 Jul 2022 16:26 SV1

Tot Ion: 41 Resp: 47761

Ion Ratio Lower Upper

41 100

42 65.4 55.2 82.8



#11

Trichlorofluoromethane

Concen: 0.209 ppbv

RT: 3.96 min Scan# 364

Delta R.T. 0.02 min

Lab File: VL039422.D

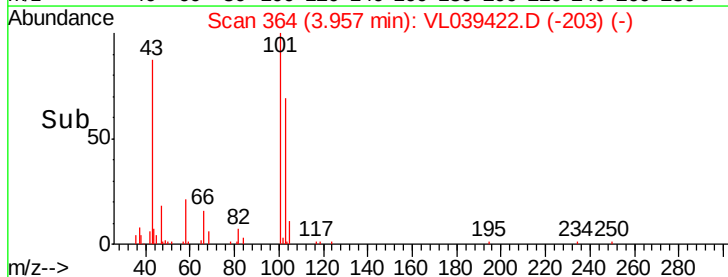
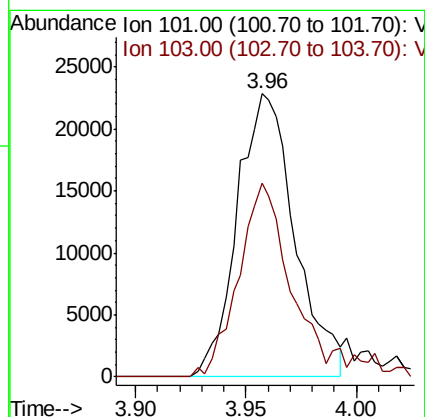
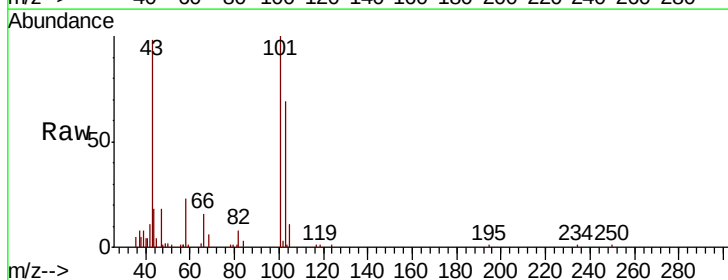
Acq: 5 Jul 2022 16:26

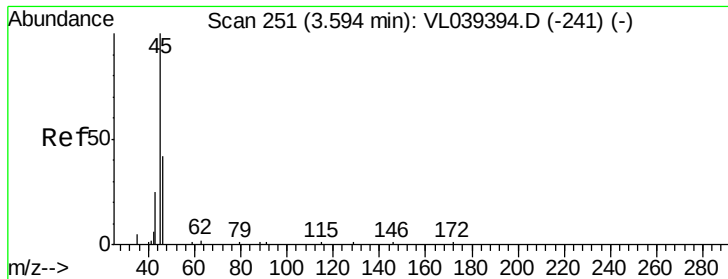
Tgt Ion: 101 Resp: 41517

Ion Ratio Lower Upper

101 100

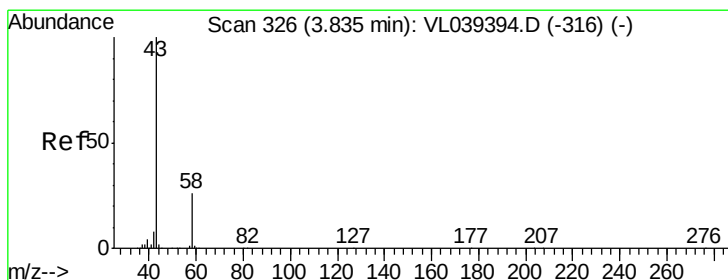
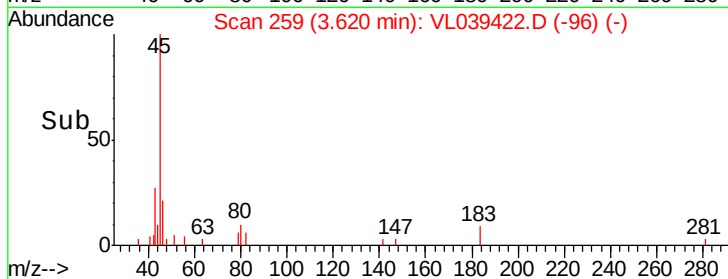
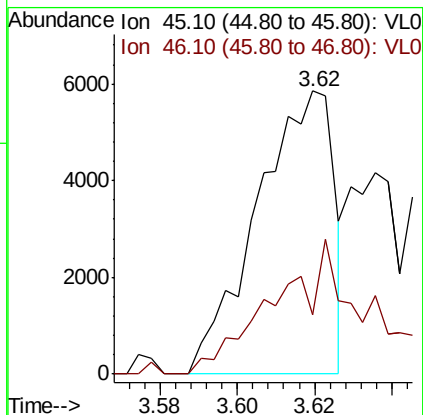
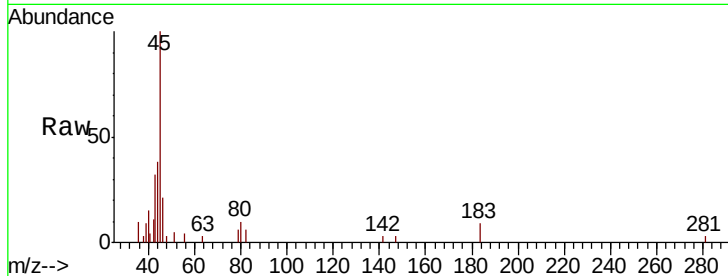
103 68.6 51.8 77.8





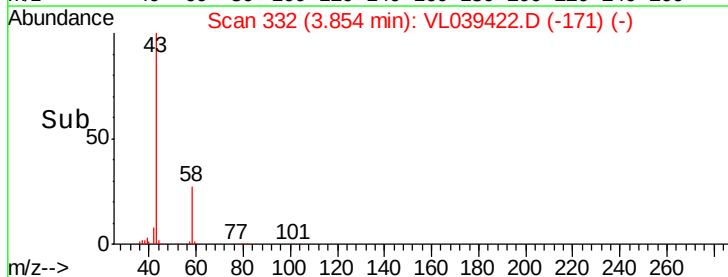
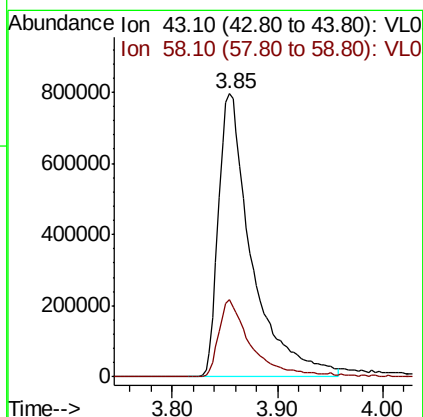
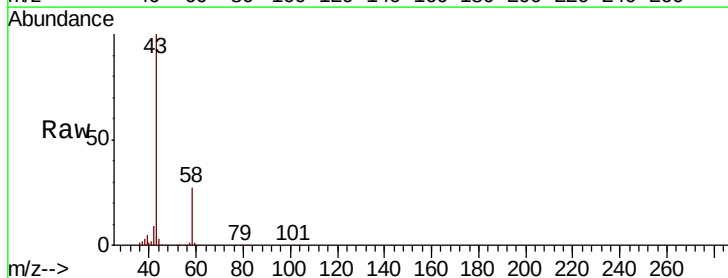
#13
Ethanol
Concen: 1.963 ppbv
RT: 3.62
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 5 Jul 2022 16:26

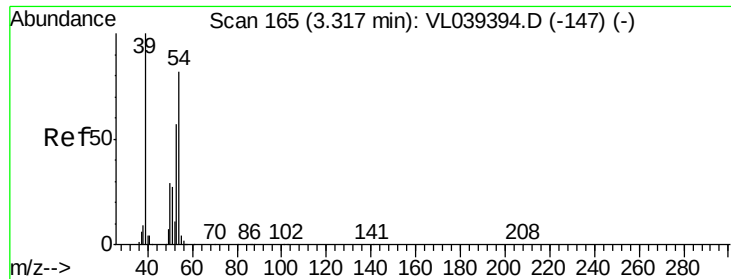
Tot Ion: 45 Resp: 8075
Ion Ratio Lower Upper
45 100
46 74.3 22.8 91.2



#15
Acetone
Concen: 11.916 ppbv
RT: 3.85 min Scan# 332
Delta R.T. 0.02 min
Lab File: VL039422.D
Acq: 5 Jul 2022 16:26

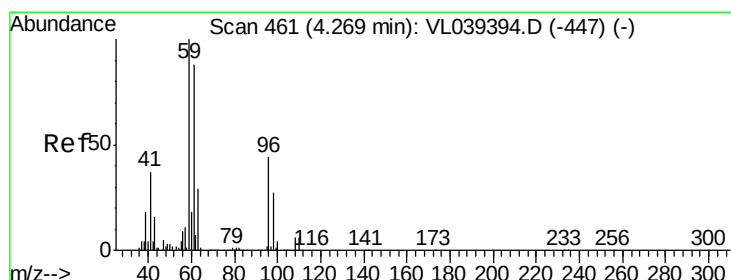
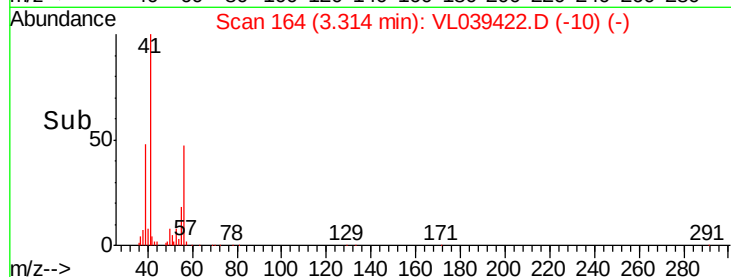
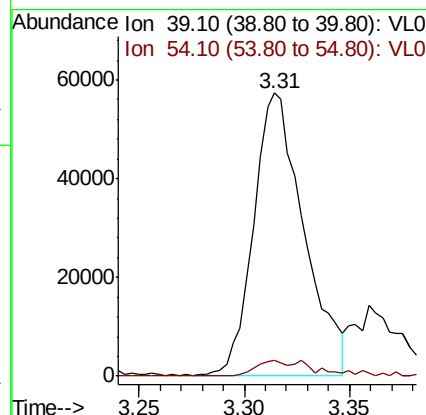
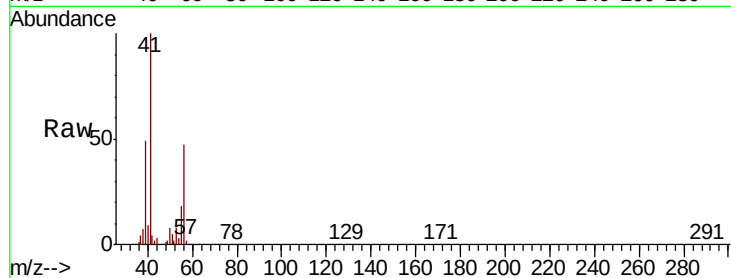
Tgt Ion: 43 Resp: 1744301
Ion Ratio Lower Upper
43 100
58 27.1 21.0 31.6





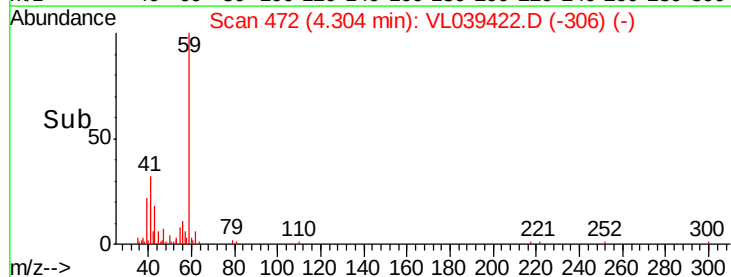
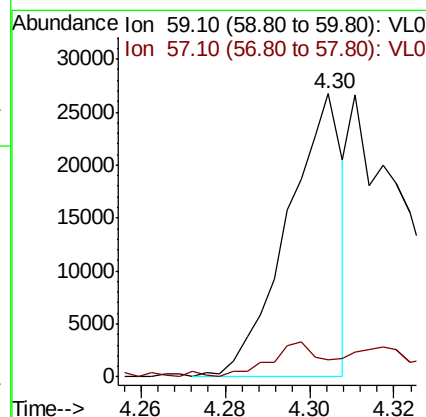
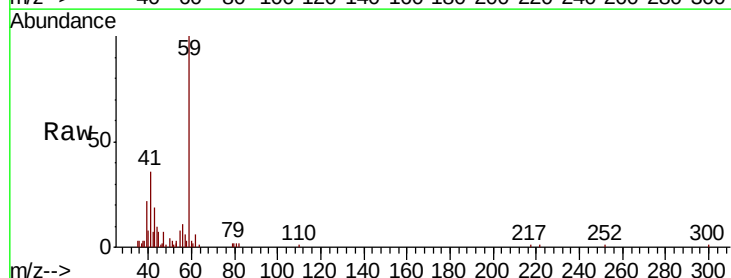
#16
 1,3-Butadiene
 Concen: 1.247 ppbv
 RT: 3.31
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SV1
 Acq: 5 Jul 2022 16:26

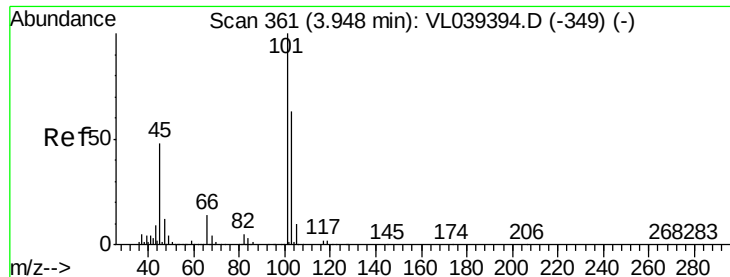
Tot Ion: 39 Resp: 94732
 Ion Ratio Lower Upper
 39 100
 54 7.0 63.7 95.5#



#17
 tert-Butyl alcohol
 Concen: 0.195 ppbv
 RT: 4.30 min Scan# 472
 Delta R.T. 0.04 min
 Lab File: VL039422.D
 Acq: 5 Jul 2022 16:26

Tgt Ion: 59 Resp: 24229
 Ion Ratio Lower Upper
 59 100
 57 33.4 8.7 13.1#





#19

Isopropyl Alcohol

Concen: 0.125 ppbv

RT: 3.98 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

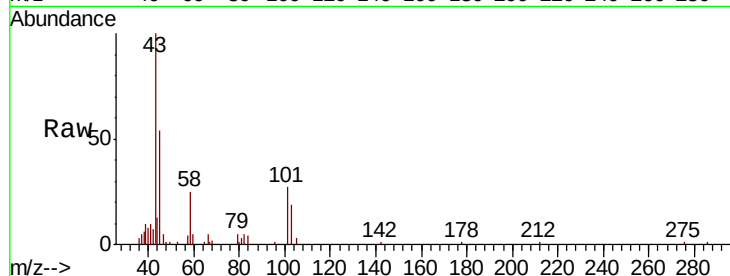
Acq: 5 Jul 2022 16:26 SV1

Tot Ion: 45 Resp: 9724

Ion Ratio Lower Upper

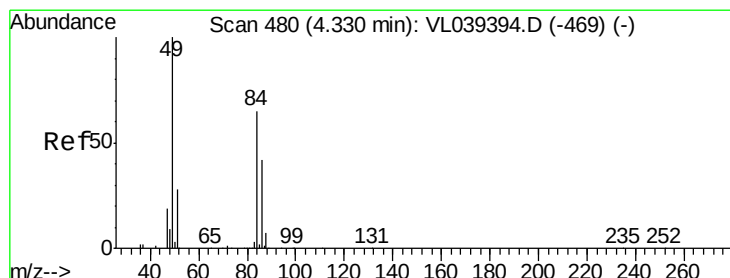
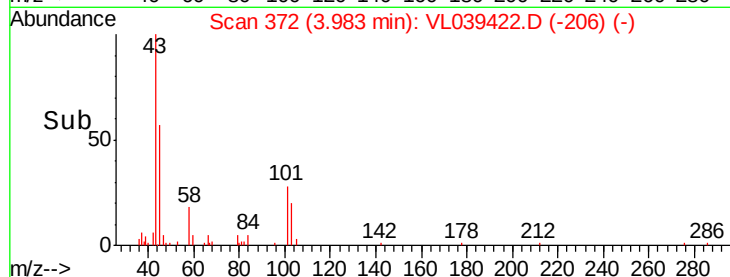
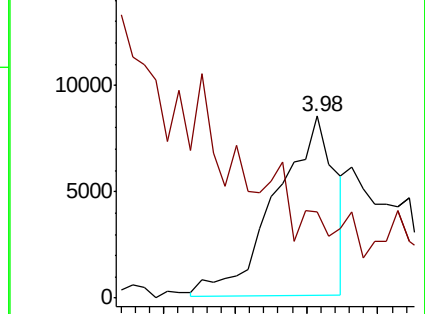
45 100

58 0.0 3.2 4.8#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.951 ppbv

RT: 4.35 min Scan# 487

Delta R.T. 0.02 min

Lab File: VL039422.D

Acq: 5 Jul 2022 16:26

Tgt Ion: 84 Resp: 55494

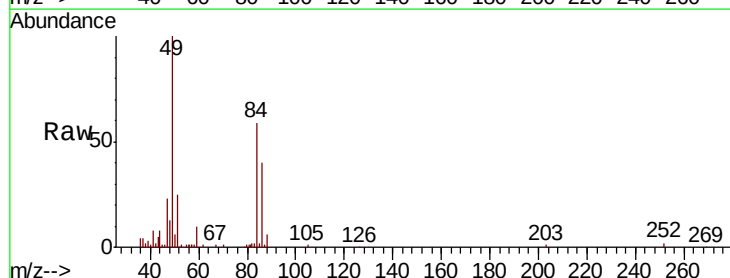
Ion Ratio Lower Upper

84 100

49 168.7 123.1 184.7

51 37.6 34.4 51.6

86 68.3 51.1 76.7

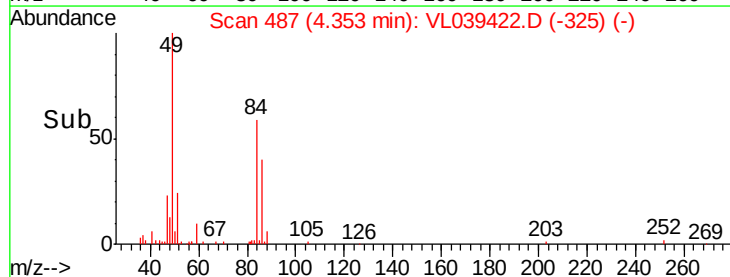
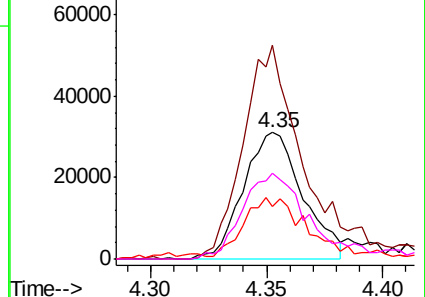


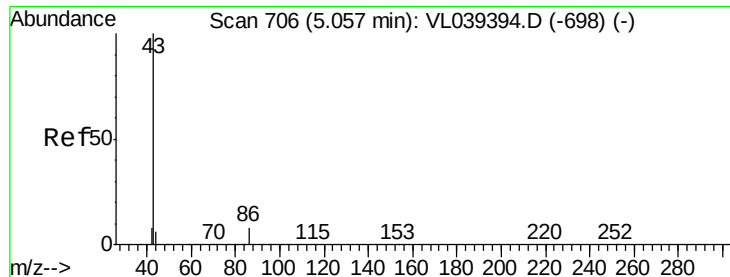
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





#23

Vinyl Acetate

Concen: 0.103 ppbv

RT: 5.07 Instrument: MSVOA_1

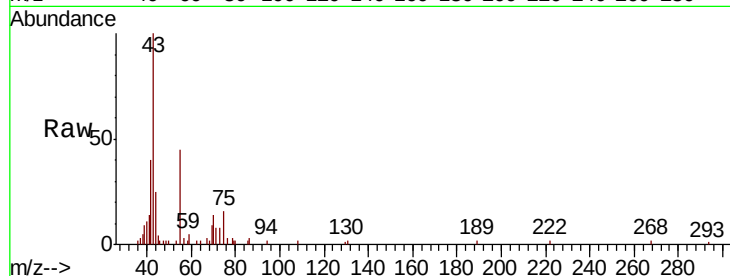
Delta R.T.

Lab File: ClientSampleId:

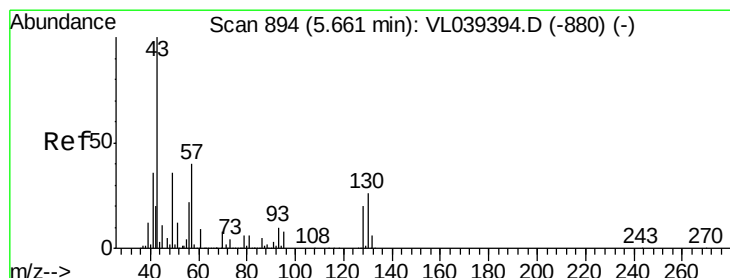
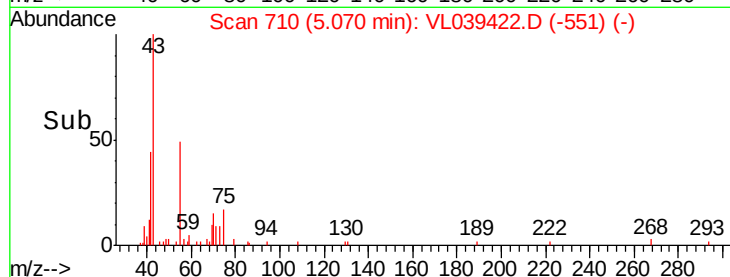
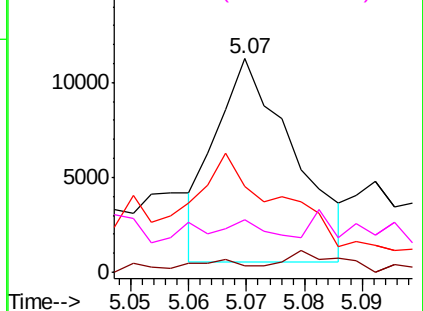
Acq: 5 Jul 2022 16:26

Tot Ion: 43 Resp: 10031

Ion	Ratio	Lower	Upper
43	100		
86	0.0	5.0	7.6#
42	41.8	7.7	11.5#
44	12.8	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: 0.151 ppbv

RT: 5.69 min Scan# 904

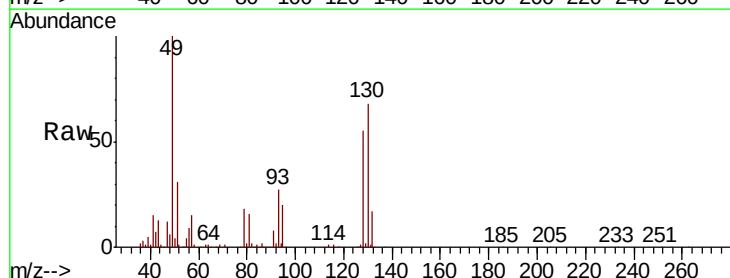
Delta R.T. 0.03 min

Lab File: VL039422.D

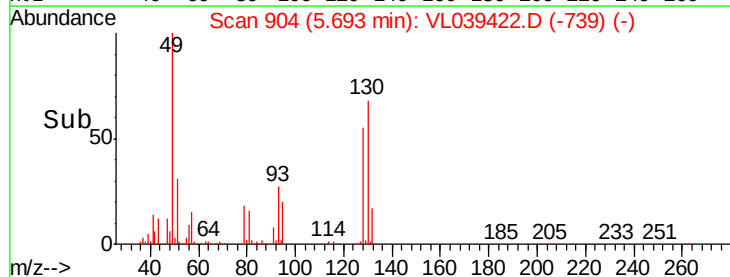
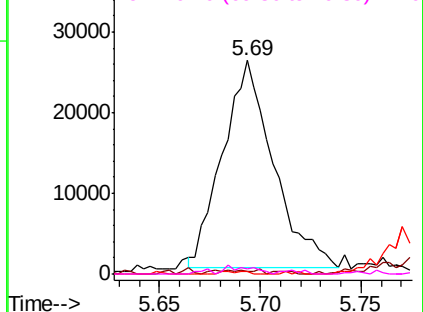
Acq: 5 Jul 2022 16:26

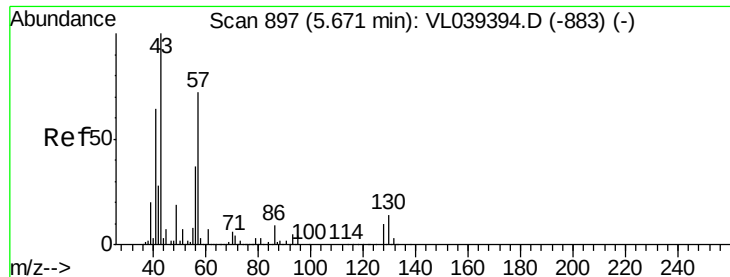
Tgt Ion: 43 Resp: 45247

Ion	Ratio	Lower	Upper
43	100		
45	3.0	8.2	12.4#
61	0.9	8.3	12.5#
70	3.4	5.9	8.9#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0





#26

Hexane

Concen: 0.529 ppbv

RT: 5.69

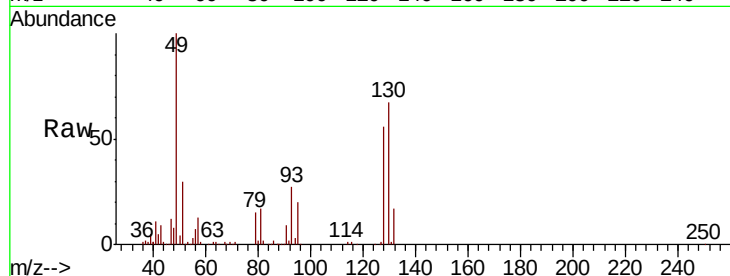
Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 5 Jul 2022 16:26

Tot Ion: 57 Resp: 63975

Ion	Ratio	Lower	Upper
57	100		
41	115.5	76.9	115.3#
43	79.5	191.0	286.6#
56	62.0	43.2	64.8



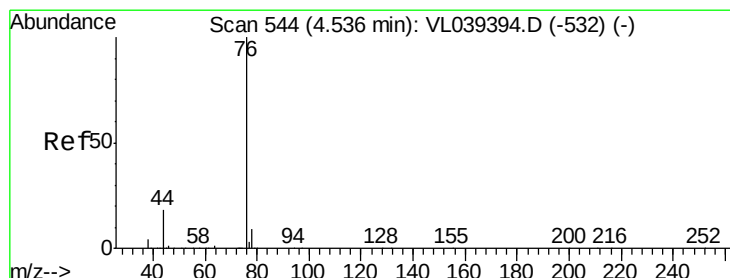
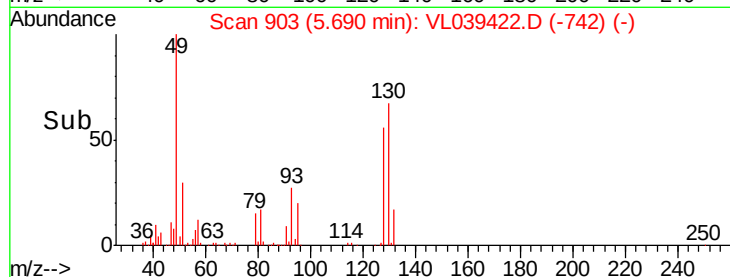
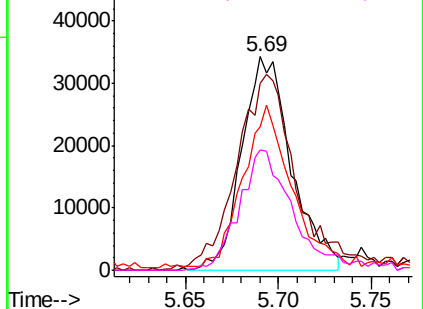
Abundance

Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#27

Carbon Disulfide

Concen: 0.075 ppbv

RT: 4.56 min Scan# 552

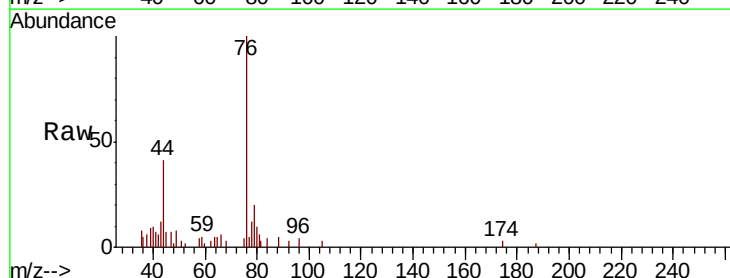
Delta R.T. 0.03 min

Lab File: VL039422.D

Acq: 5 Jul 2022 16:26

Tgt Ion: 76 Resp: 11019

Ion	Ratio	Lower	Upper
76	100		
44	18.3	14.6	21.8
78	31.7	7.8	11.6#

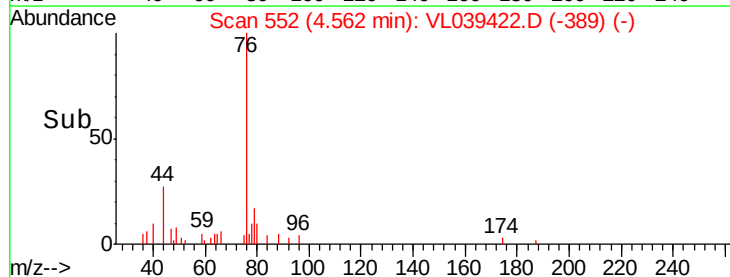
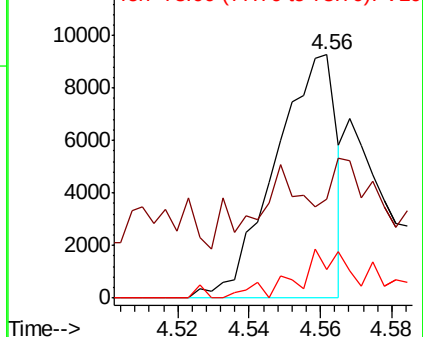


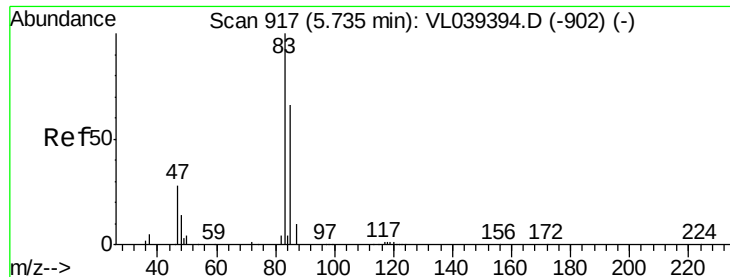
Abundance

Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0





#29

Chloroform

Concen: 0.108 ppbv

RT: 5.76 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

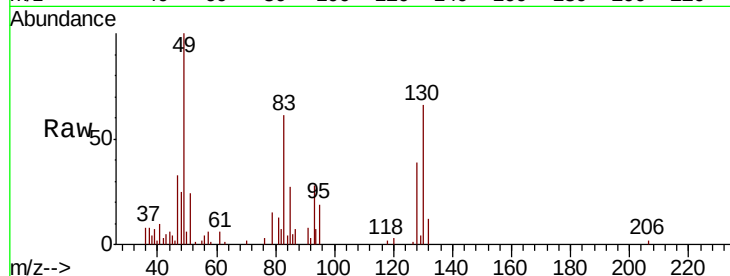
Acq: 5 Jul 2022 16:26 SV1

Tot Ion: 83 Resp: 22731

Ion Ratio Lower Upper

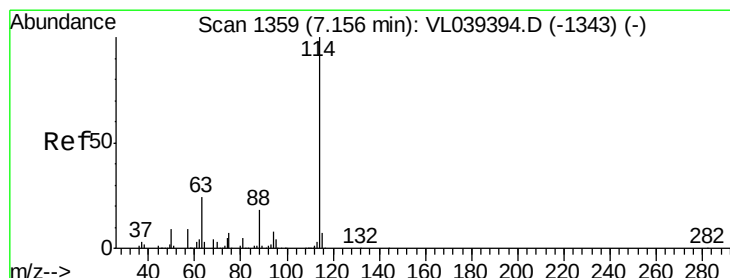
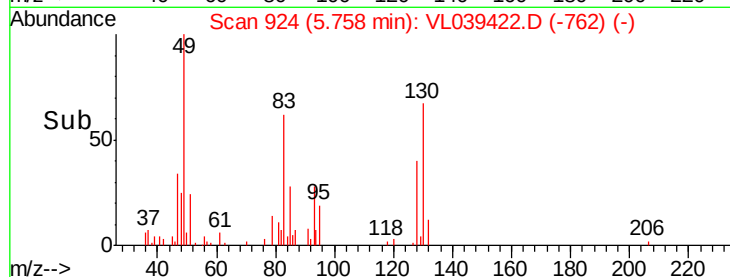
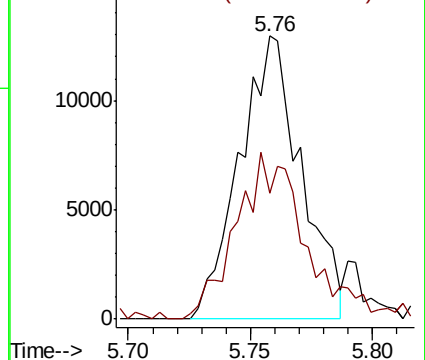
83 100

85 42.5 52.8 79.2#



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1367

Delta R.T. 0.03 min

Lab File: VL039422.D

Acq: 5 Jul 2022 16:26

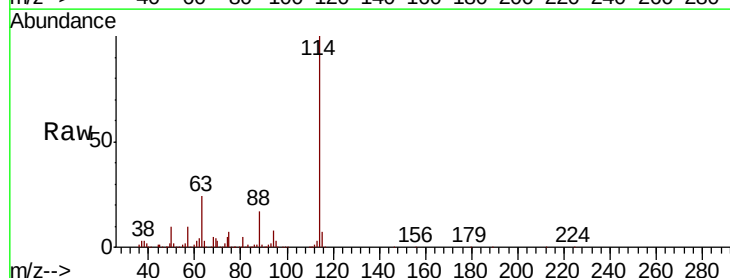
Tgt Ion: 114 Resp: 3459501

Ion Ratio Lower Upper

114 100

63 25.4 20.2 30.4

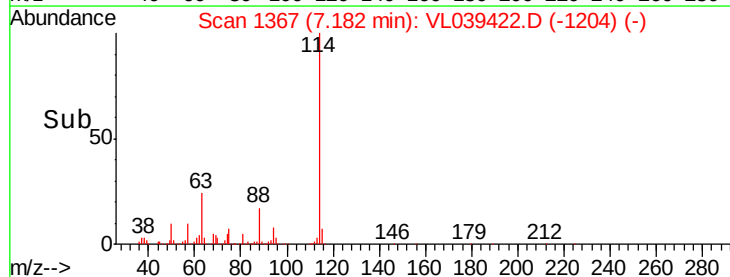
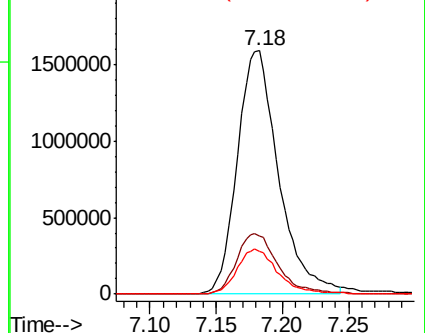
88 18.5 14.5 21.7

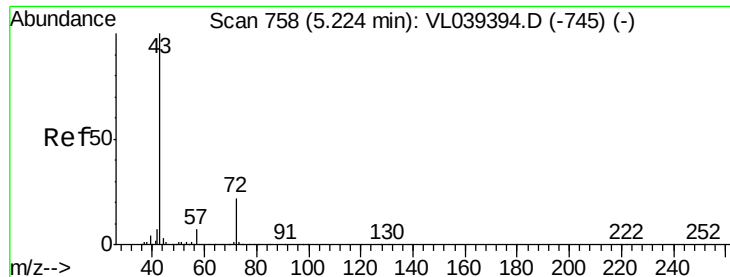


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

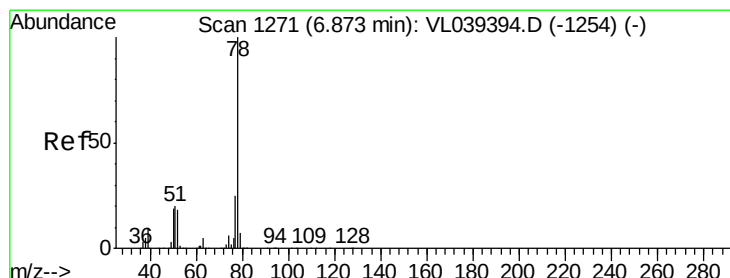
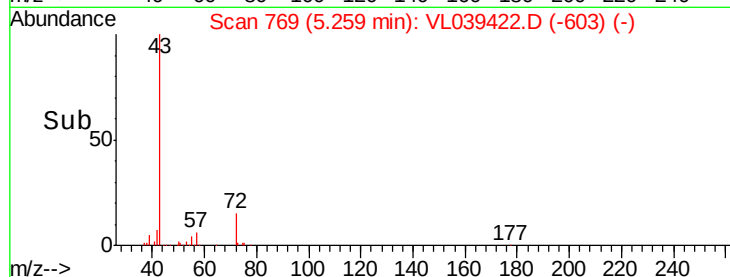
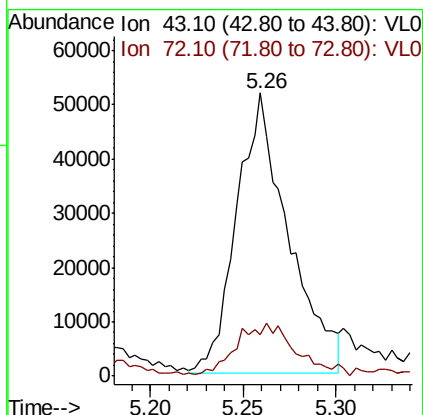
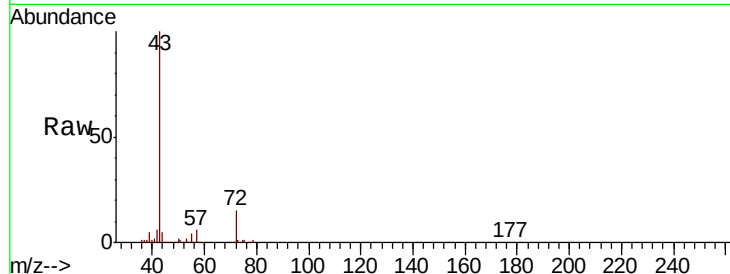
Ion 88.10 (87.80 to 88.80): VL0





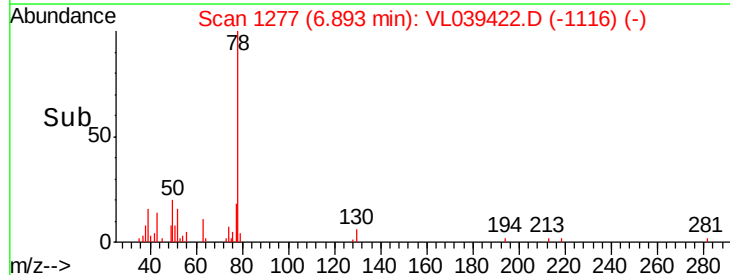
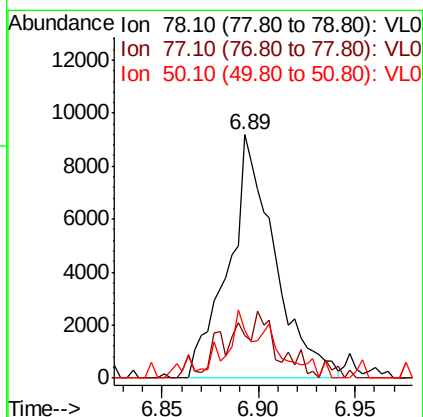
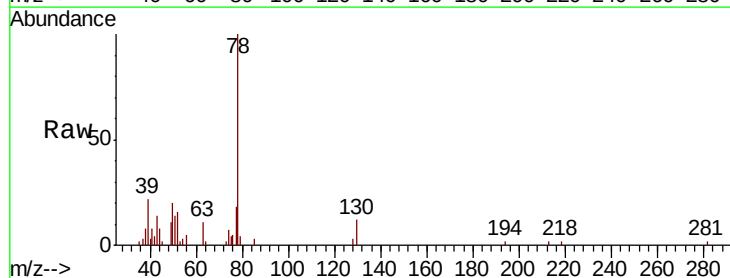
#34
2-Butanone
Concen: 0.575 ppbv
RT: 5.26
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 5 Jul 2022 16:26

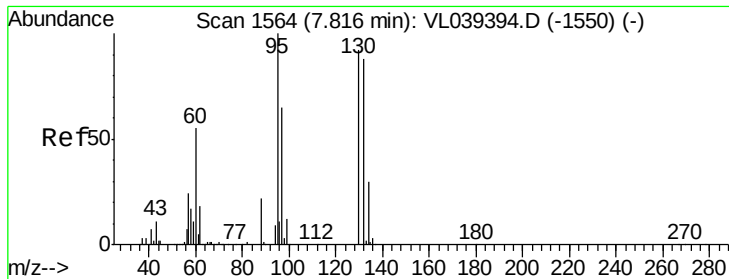
Tot Ion: 43 Resp: 100078
Ion Ratio Lower Upper
43 100
72 25.2 17.9 26.9



#36
Benzene
Concen: 0.057 ppbv
RT: 6.89 min Scan# 1277
Delta R.T. 0.02 min
Lab File: VL039422.D
Acq: 5 Jul 2022 16:26

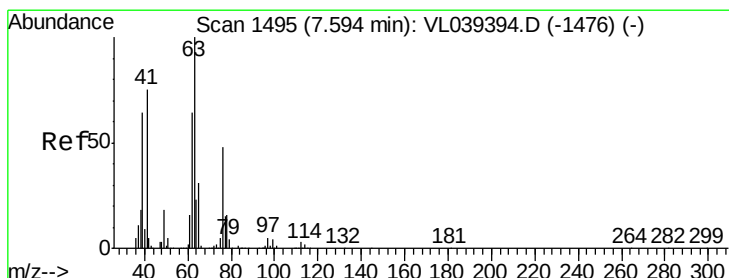
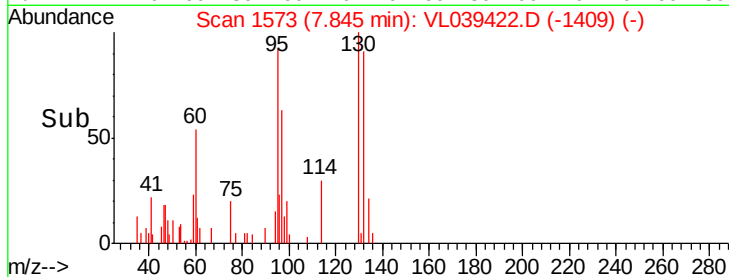
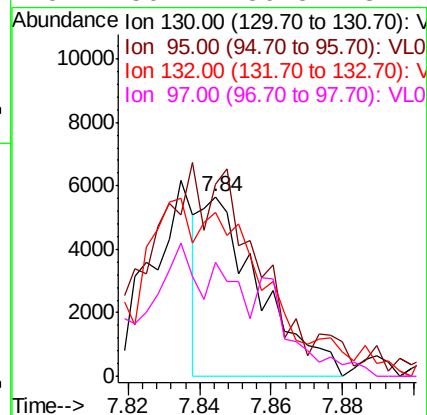
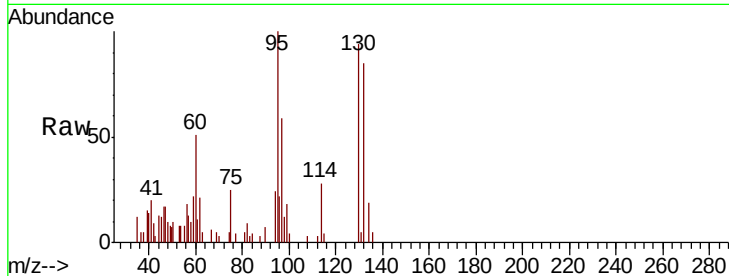
Tgt Ion: 78 Resp: 15245
Ion Ratio Lower Upper
78 100
77 13.0 20.3 30.5#
50 34.2 15.5 23.3#





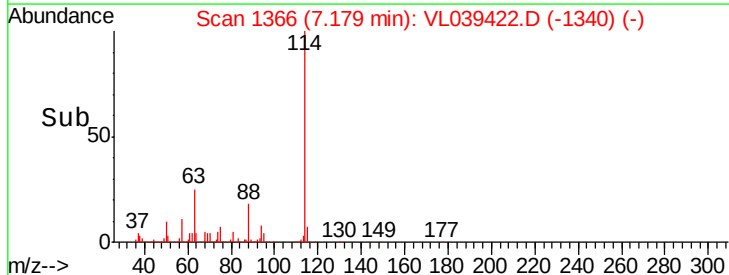
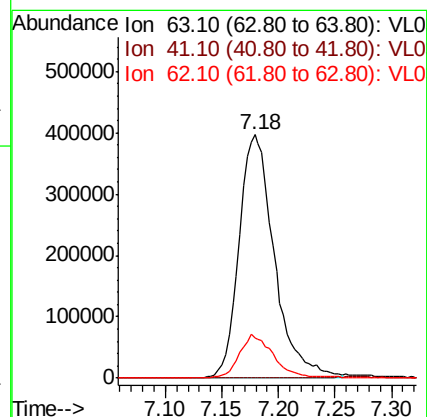
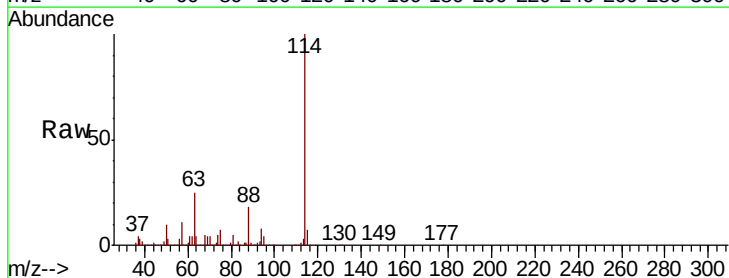
#38
 Trichloroethene
 Concen: 0.044 ppbv
 RT: 7.84
 Delta R.T. MSVOA_1
 Lab File: ClientSampleId :
 Acq: 5 Jul 2022 16:26

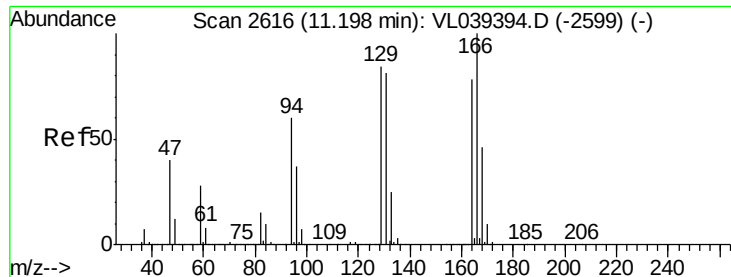
Tot Ion	Ratio	Lower	Upper
130	100		
95	87.3	87.3	130.9#
132	77.8	76.7	115.1
97	56.4	56.5	84.7#



#39
 1,2-Dichloropropane
 Concen: 8.624 ppbv
 RT: 7.18 min Scan# 1366
 Delta R.T. -0.41 min
 Lab File: VL039422.D
 Acq: 5 Jul 2022 16:26

Tgt Ion	Ratio	Lower	Upper
63	100		
41	0.0	59.6	89.4#
62	16.4	51.4	77.0#





#52

Tetrachloroethene

Concen: 2.680 ppbv

RT: 11.22

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 5 Jul 2022 16:26

Tot Ion:164 Resp: 288895

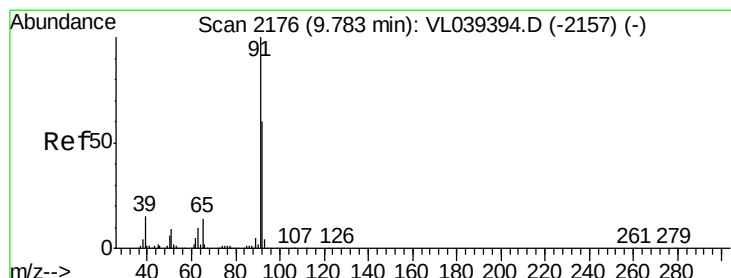
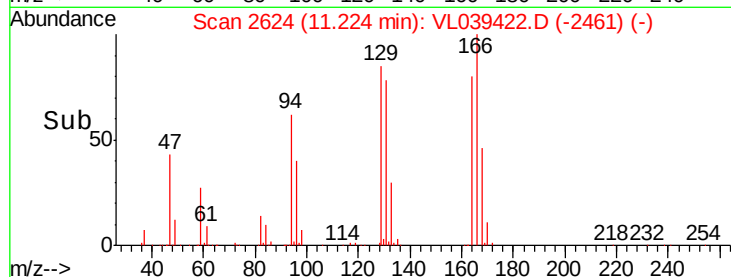
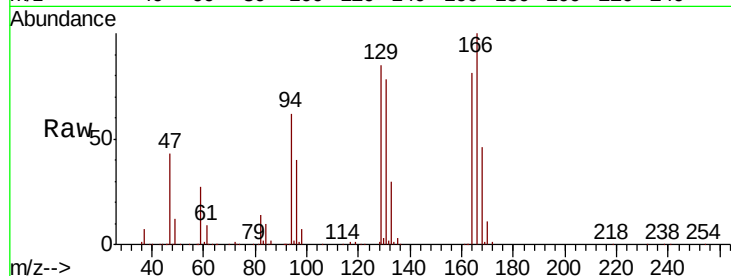
Ion Ratio Lower Upper

164 100

166 123.5 102.2 153.2

129 104.4 85.8 128.8

131 96.4 83.3 124.9



#53

Toluene

Concen: 0.159 ppbv

RT: 9.81 min Scan# 2184

Delta R.T. 0.03 min

Lab File: VL039422.D

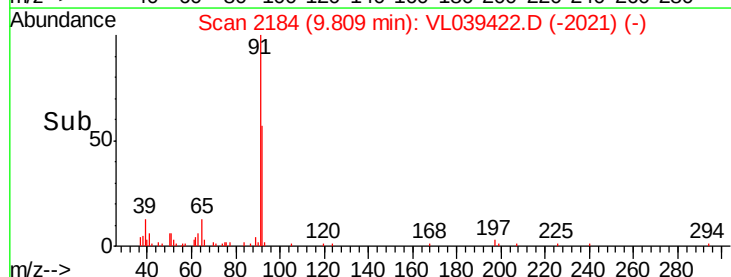
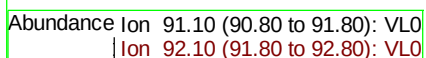
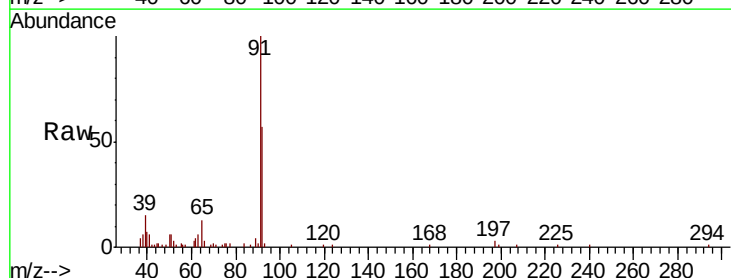
Acq: 5 Jul 2022 16:26

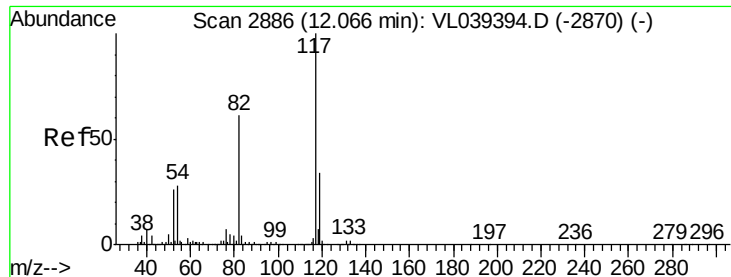
Tgt Ion: 91 Resp: 48957

Ion Ratio Lower Upper

91 100

92 61.3 48.2 72.2

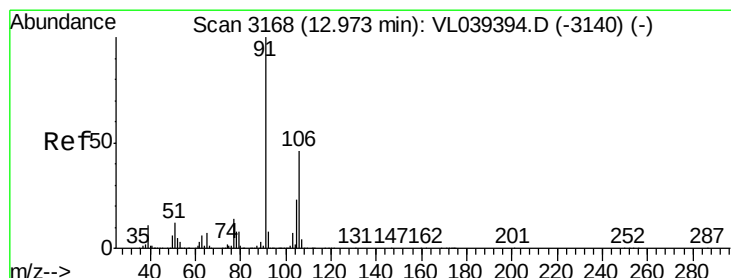
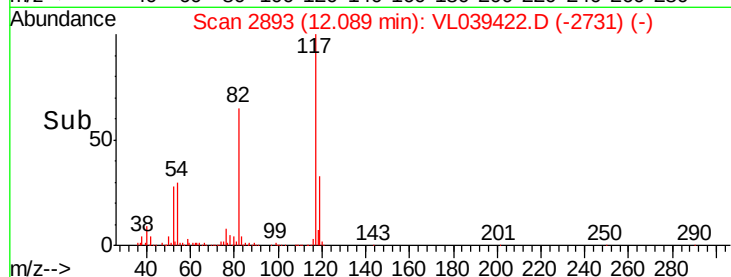
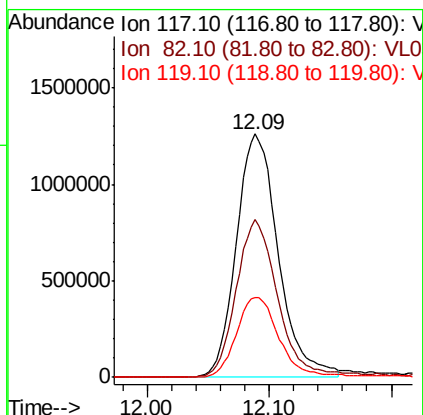
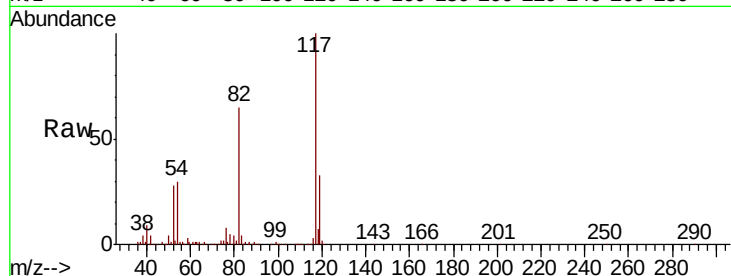




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
SV1
Acq: 5 Jul 2022 16:26

Tot Ion: 117 Resp: 2999012

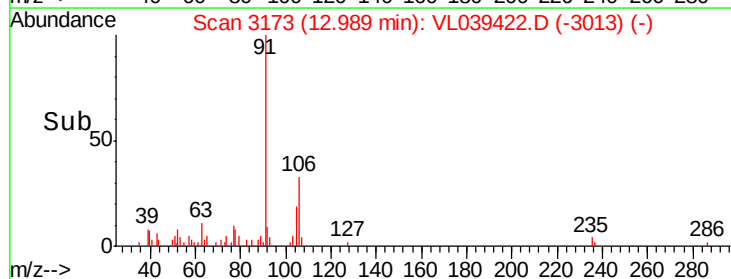
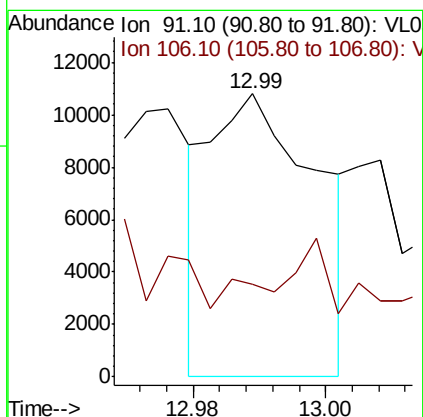
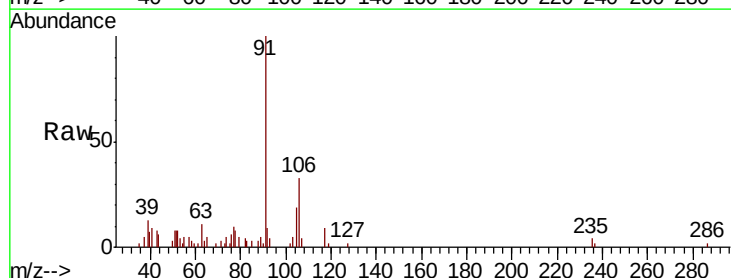
Ion	Ratio	Lower	Upper
117	100		
82	66.6	50.8	76.2
119	34.3	24.1	36.1

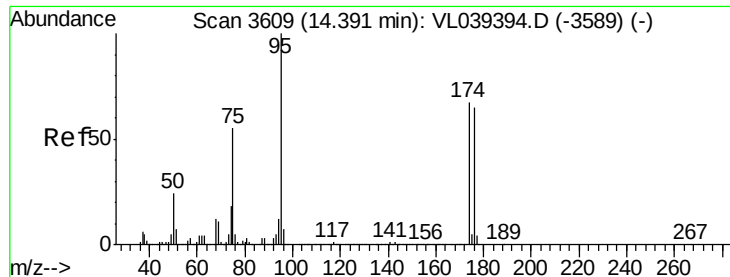


#59
m/p-Xylene
Concen: 0.035 ppbv
RT: 12.99 min Scan# 3173
Delta R.T.: 0.02 min
Lab File: VL039422.D
Acq: 5 Jul 2022 16:26

Tgt Ion: 91 Resp: 12034

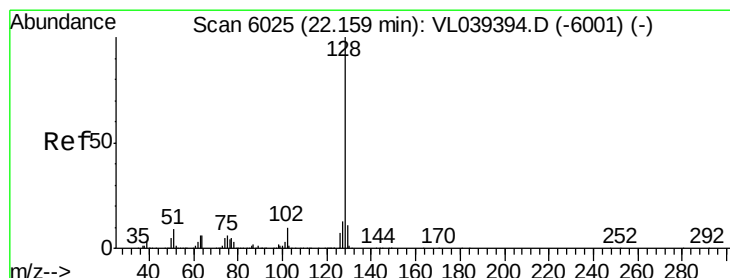
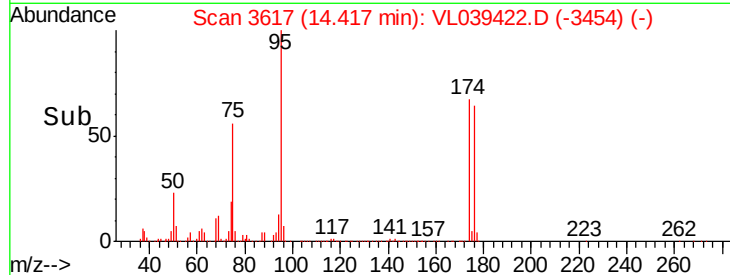
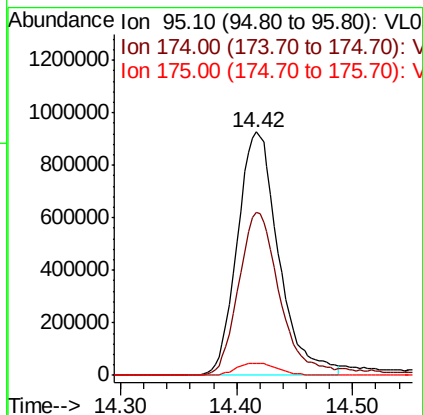
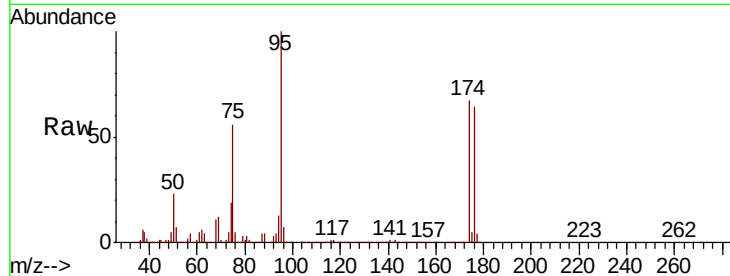
Ion	Ratio	Lower	Upper
91	100		
106	0.0	35.4	53.2





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.307 ppbv
 RT: 14.42
 Delta R.T. MSVOA_L
 Lab File: ClientSampled :
 Acq: 5 Jul 2022 16:26

Tot Ion:	95	Resp:	2293235
Ion	Ratio	Lower	Upper
95	100		
174	70.6	55.9	83.9
175	5.6	4.2	6.4



#79
 Naphthalene
 Concen: 0.041 ppbv
 RT: 22.20 min Scan# 6037
 Delta R.T. 0.04 min
 Lab File: VL039422.D
 Acq: 5 Jul 2022 16:26

Tgt Ion:	128	Resp:	10823
Ion	Ratio	Lower	Upper
128	100		
127	12.2	10.6	15.8
129	19.8	8.8	13.2#

