

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070522\
 Data File : VL039424.D
 Acq On : 5 Jul 2022 18:08
 Operator : SY/AP
 Sample : N3573-01 5X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Quant Time: Jul 06 02:36:09 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	5.68	49	1452744	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.19	114	3858716	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.09	117	3410250	10.00	ppbv	0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2515516	9.94	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.40%

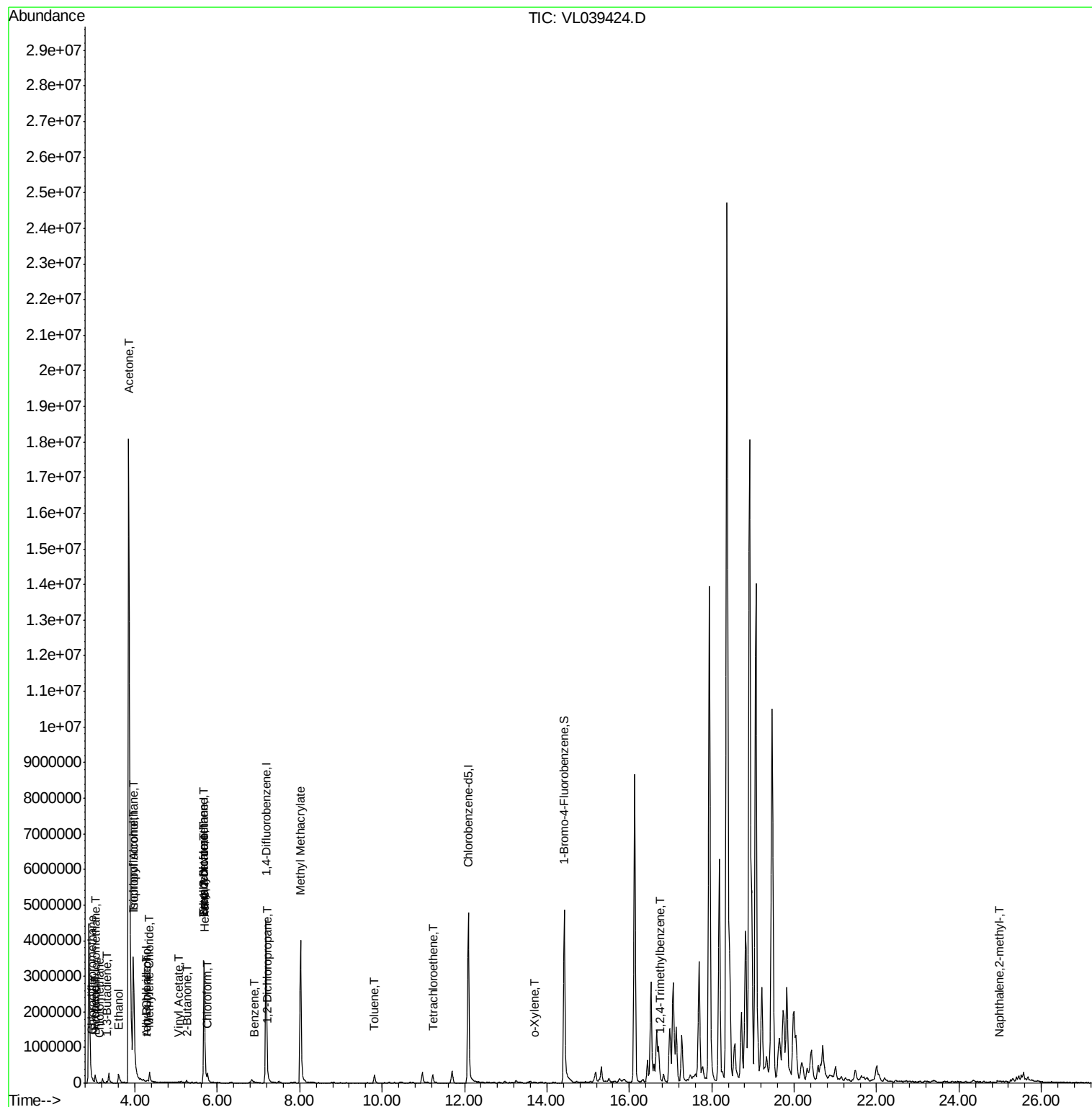
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.06	85	17070	0.081 ppbv	89
3) Chlorodifluoromethane	2.97	51	61026	0.331 ppbv #	67
4) Chloromethane	3.15	50	8112	0.080 ppbv	96
9) Propene	3.03	41	60531	0.727 ppbv #	73
11) Trichlorofluoromethane	3.95	101	9061	0.039 ppbv #	77
13) Ethanol	3.60	45	370077	76.635 ppbv	73
15) Acetone	3.85	43	24976964	145.325 ppbv #	63
16) 1,3-Butadiene	3.32	39	14108	0.158 ppbv #	24
17) tert-Butyl alcohol	4.29	59	7257	0.050 ppbv #	71
19) Isopropyl Alcohol	3.96	45	4419135	48.204 ppbv #	88
20) Methylene Chloride	4.36	84	87077	1.271 ppbv #	92
21) Allyl Chloride	4.29	41	3902	0.033 ppbv #	19
23) Vinyl Acetate	5.08	43	6148	0.054 ppbv #	64
25) Ethyl Acetate	5.68	43	888288	2.521 ppbv #	92
26) Hexane	5.69	57	89052	0.627 ppbv #	1
29) Chloroform	5.76	83	138848	0.562 ppbv	91
31) cis-1,2-Dichloroethene	5.67	61	102458	0.680 ppbv #	27
34) 2-Butanone	5.25	43	78627	0.405 ppbv	95
36) Benzene	6.90	78	14450	0.048 ppbv #	88
39) 1,2-Dichloropropane	7.23	63	11244	0.101 ppbv #	24
41) Tetrahydrofuran	5.68	42	94963	0.844 ppbv #	44
43) Methyl Methacrylate	8.02	69	1672955	14.732 ppbv	94
52) Tetrachloroethene	11.23	164	40772	0.339 ppbv	94
53) Toluene	9.82	91	67279	0.195 ppbv #	21
60) o-Xylene	13.69	91	11990	0.033 ppbv #	31
74) 1,2,4-Trimethylbenzene	16.76	105	17675	0.040 ppbv #	64
80) Naphthalene,2-methyl-	24.97	142	3233	0.031 ppbv #	28

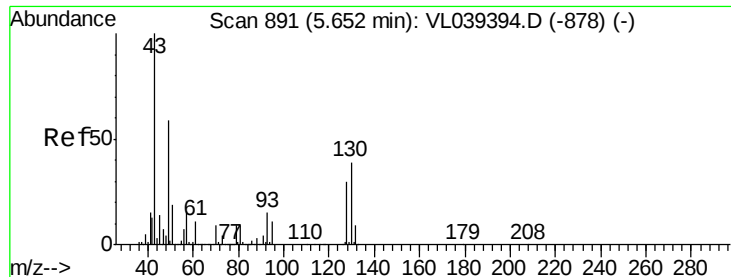
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL070522\
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Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV1

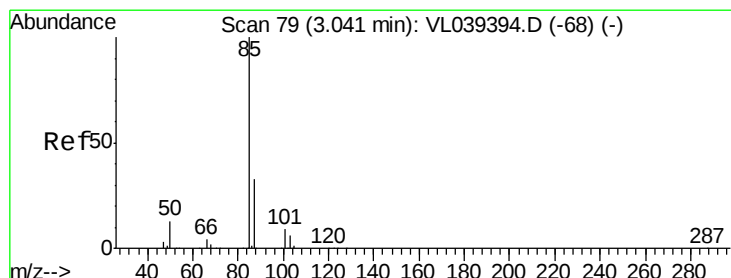
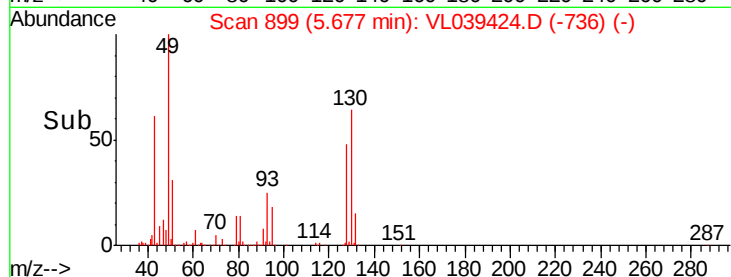
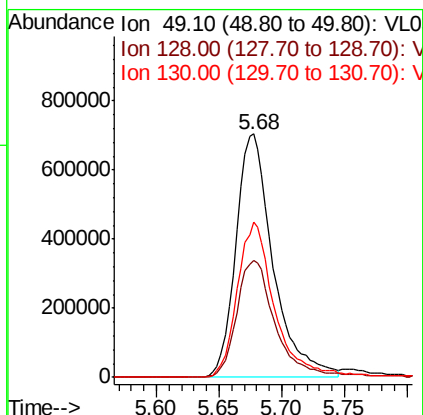
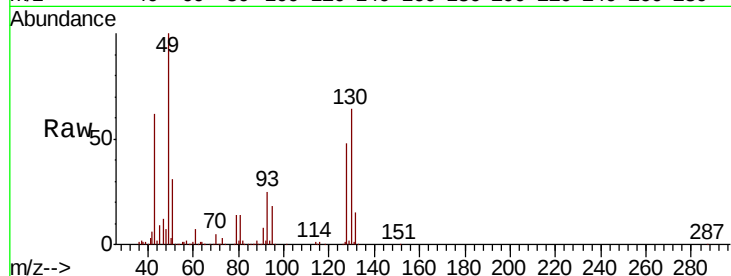
Quant Time: Jul 06 02:36:09 2022
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL062922AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul 06 02:15:38 2022
QLast Update : Wed Jul 06 02:15:38 2022
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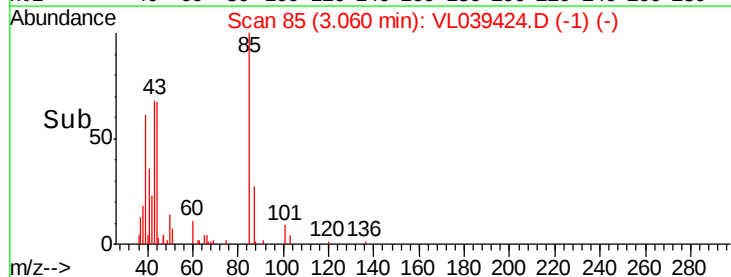
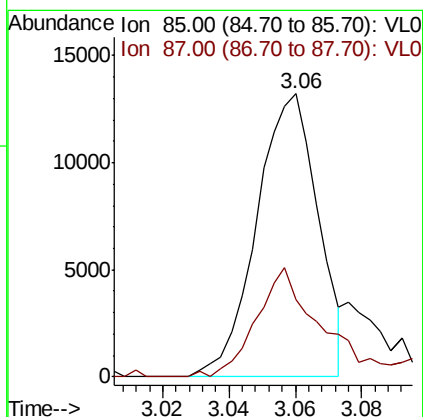
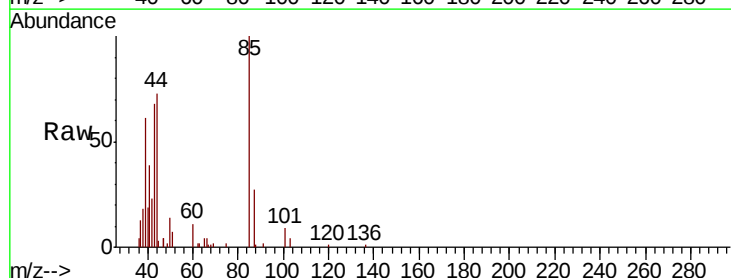
#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.68
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 SV1
 Acq: 5 Jul 2022 18:08

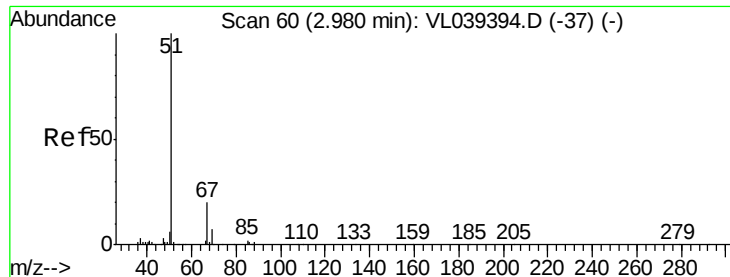
Tot Ion: 49 Resp: 1452744
 Ion Ratio Lower Upper
 49 100
 128 51.0 26.7 80.0
 130 65.6 34.3 102.8



#2
 Dichlorodifluoromethane
 Concen: 0.081 ppbv
 RT: 3.06 min Scan# 85
 Delta R.T. 0.02 min
 Lab File: VL039424.D
 Acq: 5 Jul 2022 18:08

Tgt Ion: 85 Resp: 17070
 Ion Ratio Lower Upper
 85 100
 87 27.3 26.7 40.1





#3

Chlorodifluoromethane

Concen: 0.331 ppbv

RT: 2.97 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

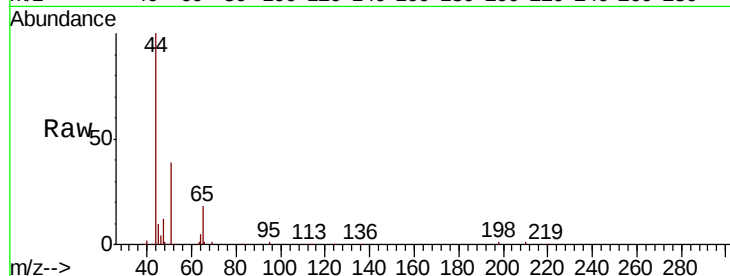
Acq: 5 Jul 2022 18:08 SV1

Tot Ion: 51 Resp: 61026

Ion Ratio Lower Upper

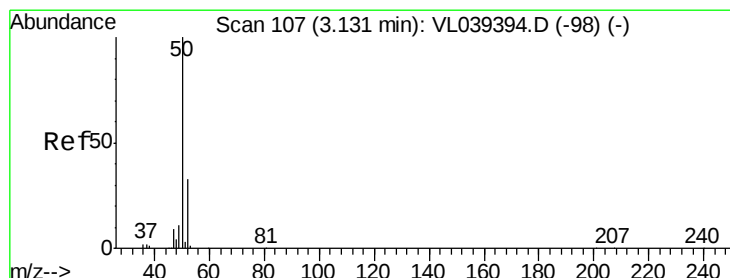
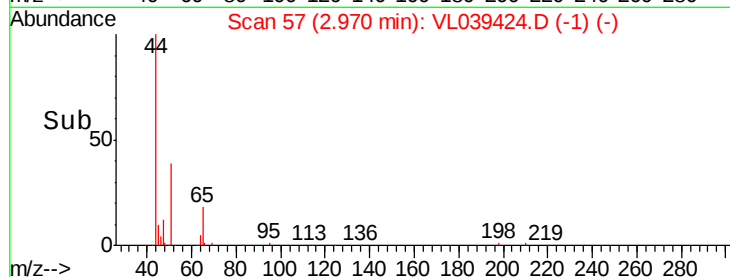
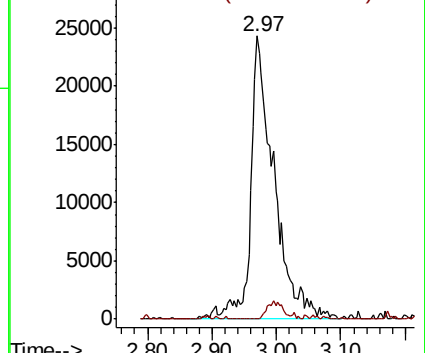
51 100

67 4.6 15.7 23.5#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.080 ppbv

RT: 3.15 min Scan# 113

Delta R.T. 0.02 min

Lab File: VL039424.D

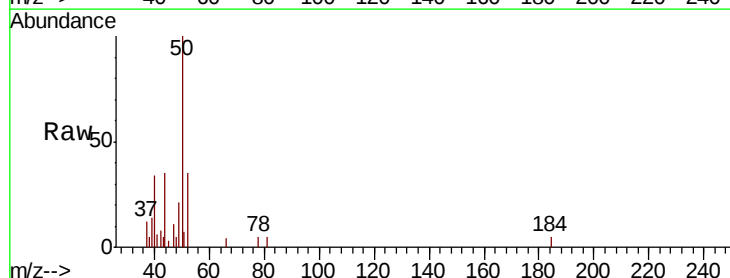
Acq: 5 Jul 2022 18:08

Tgt Ion: 50 Resp: 8112

Ion Ratio Lower Upper

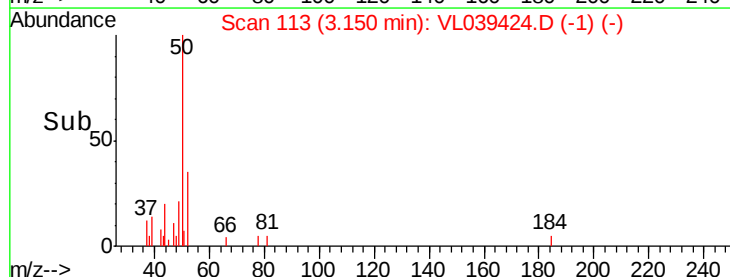
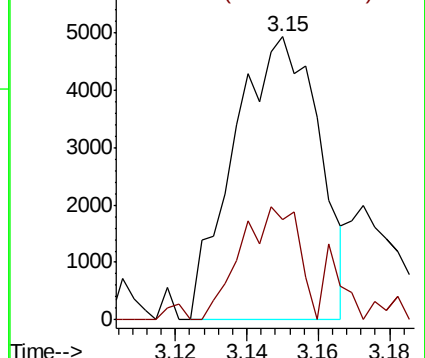
50 100

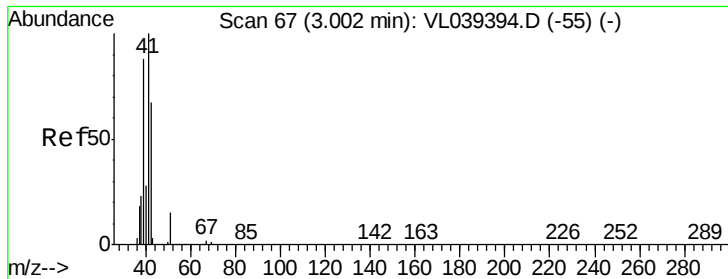
52 35.2 26.5 39.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.727 ppbv

RT: 3.03 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

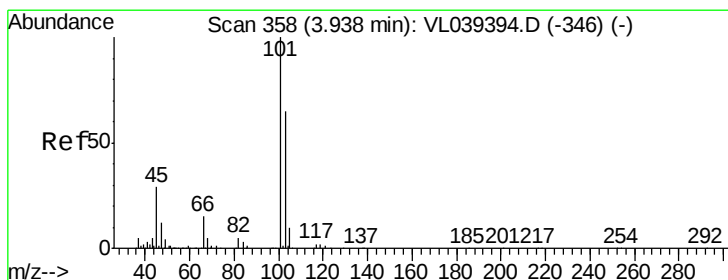
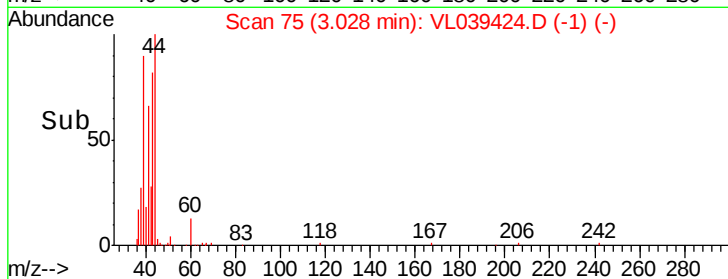
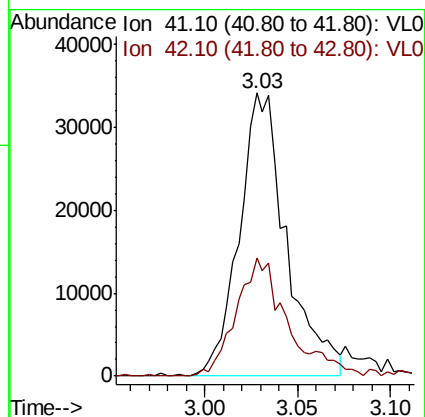
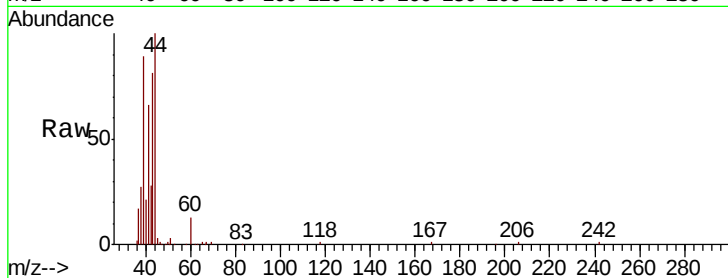
Acq: 5 Jul 2022 18:08 SV1

Tot Ion: 41 Resp: 60531

Ion Ratio Lower Upper

41 100

42 46.6 55.2 82.8#



#11

Trichlorofluoromethane

Concen: 0.039 ppbv

RT: 3.95 min Scan# 363

Delta R.T. 0.02 min

Lab File: VL039424.D

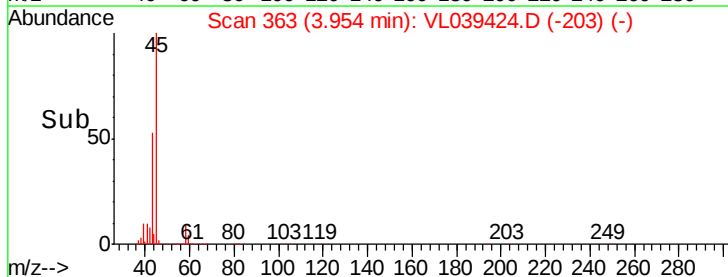
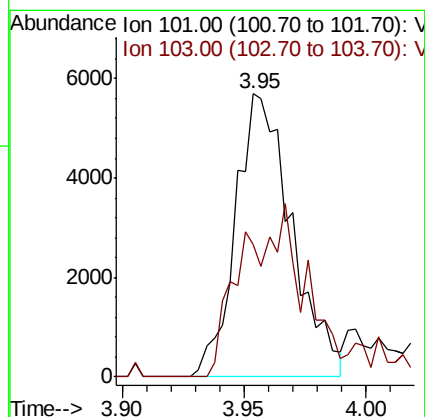
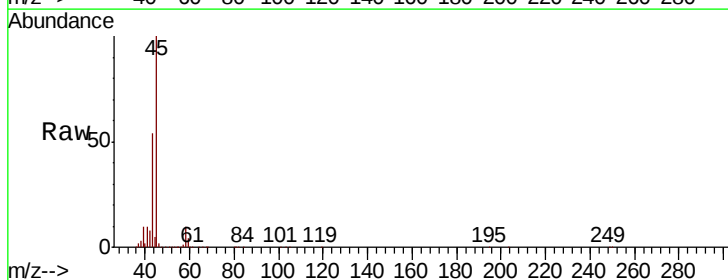
Acq: 5 Jul 2022 18:08

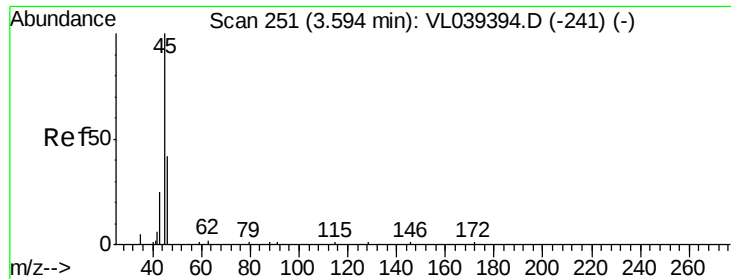
Tgt Ion: 101 Resp: 9061

Ion Ratio Lower Upper

101 100

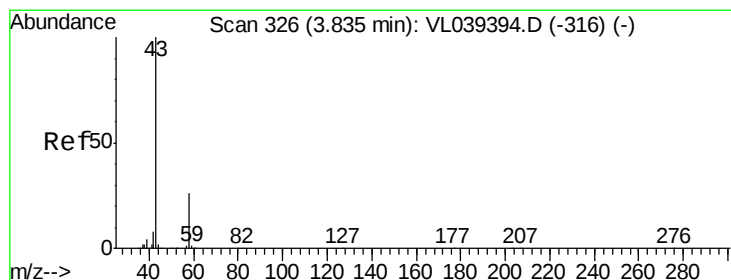
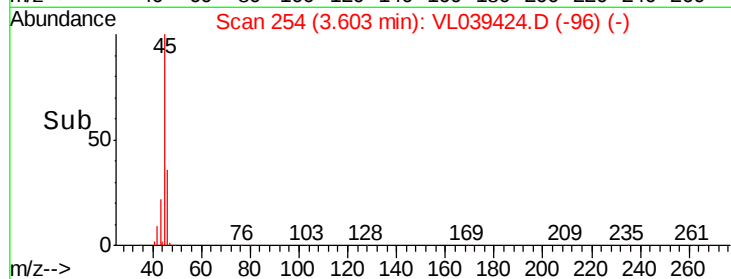
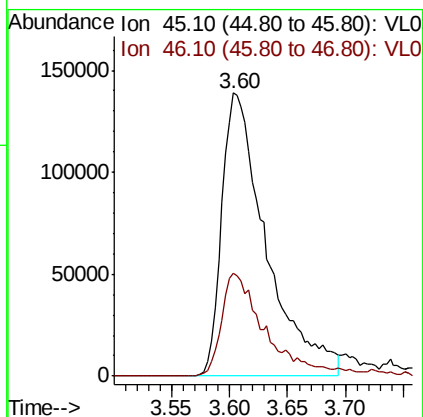
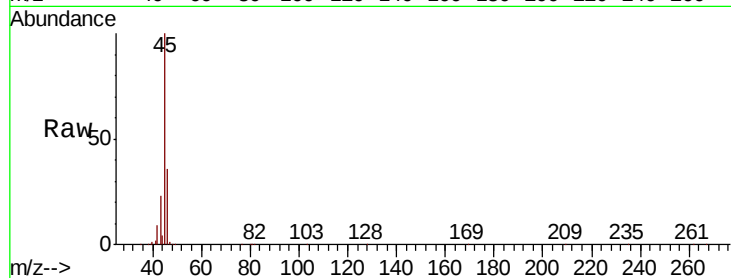
103 47.0 51.8 77.8#





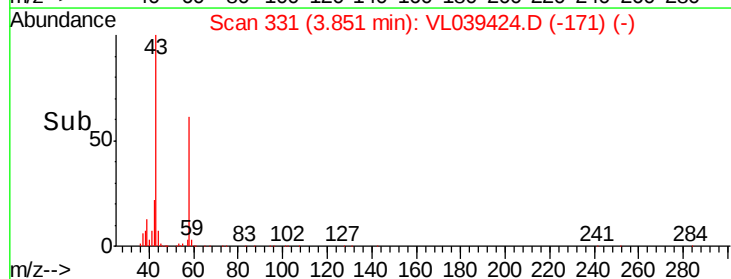
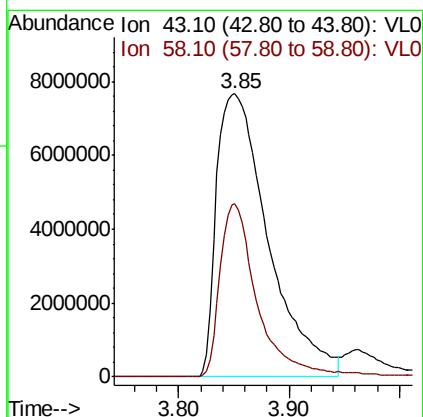
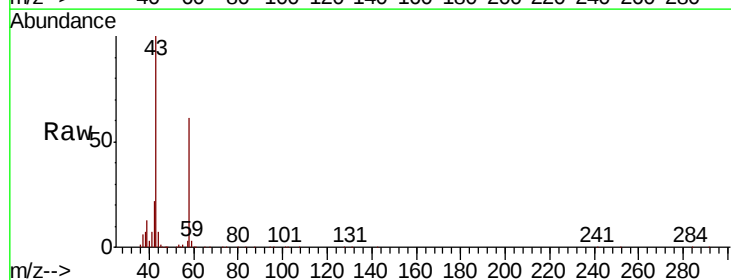
#13
 Ethanol
 Concen: 76.635 ppbv
 RT: 3.60
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 5 Jul 2022 18:08

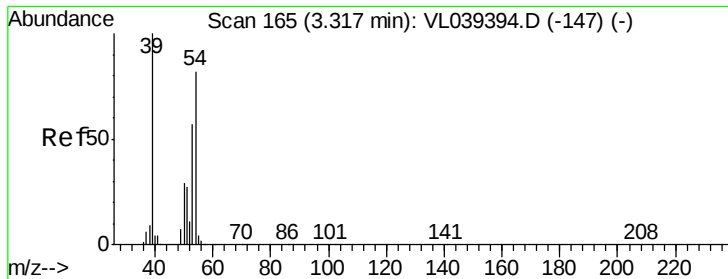
Tot Ion: 45 Resp: 370077
 Ion Ratio Lower Upper
 45 100
 46 36.9 22.8 91.2



#15
 Acetone
 Concen: 145.325 ppbv
 RT: 3.85 min Scan# 331
 Delta R.T. 0.02 min
 Lab File: VL039424.D
 Acq: 5 Jul 2022 18:08

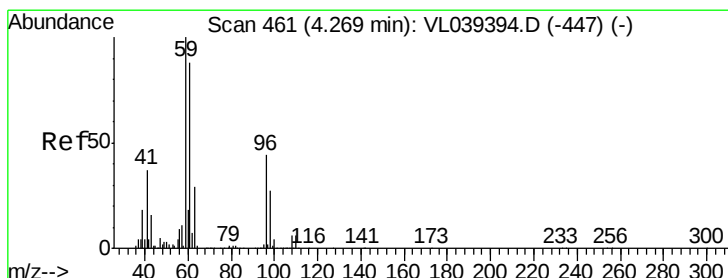
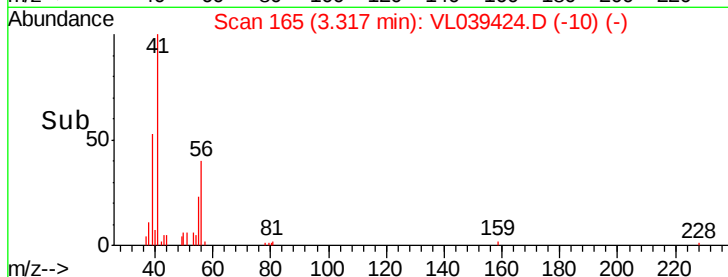
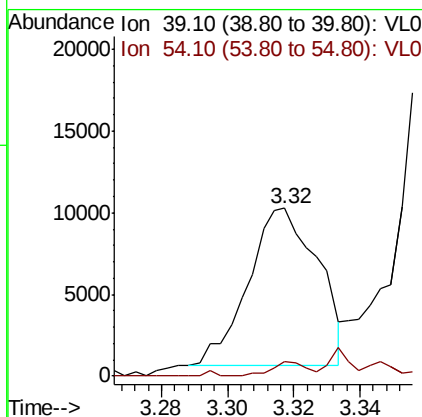
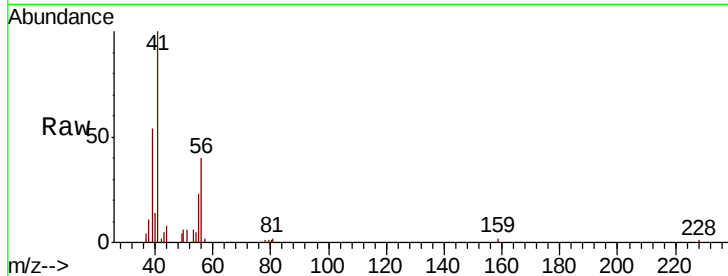
Tgt Ion: 43 Resp: 24976964
 Ion Ratio Lower Upper
 43 100
 58 45.3 21.0 31.6#





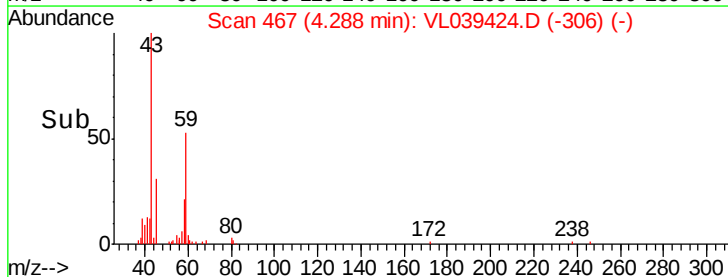
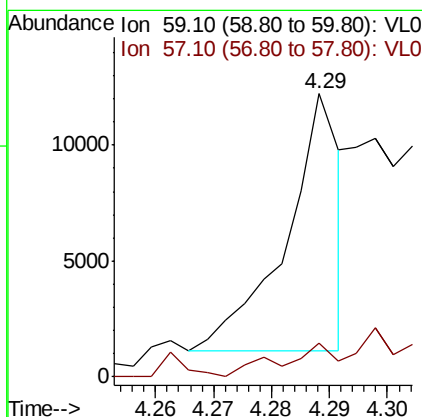
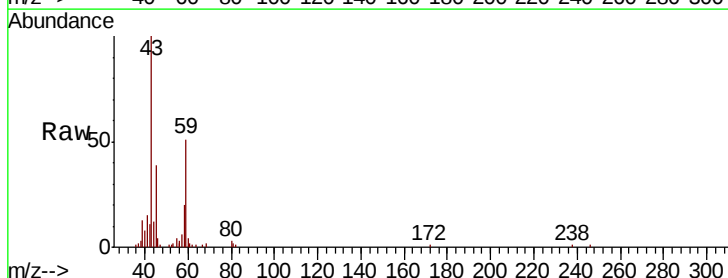
#16
 1,3-Butadiene
 Concen: 0.158 ppbv
 RT: 3.32
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 SV1
 Acq: 5 Jul 2022 18:08

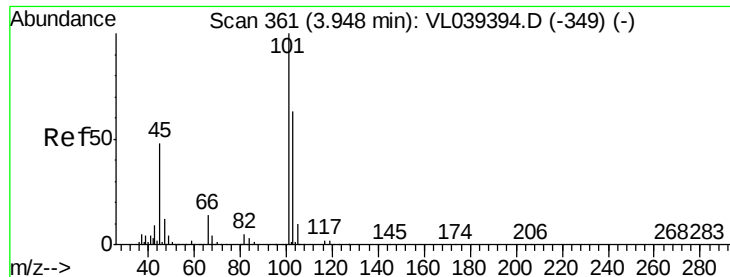
Tot Ion: 39 Resp: 14108
 Ion Ratio Lower Upper
 39 100
 54 13.2 63.7 95.5#



#17
 tert-Butyl alcohol
 Concen: 0.050 ppbv
 RT: 4.29 min Scan# 467
 Delta R.T. 0.02 min
 Lab File: VL039424.D
 Acq: 5 Jul 2022 18:08

Tgt Ion: 59 Resp: 7257
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.7 13.1#





#19

Isopropyl Alcohol

Concen: 48.204 ppbv

RT: 3.96 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

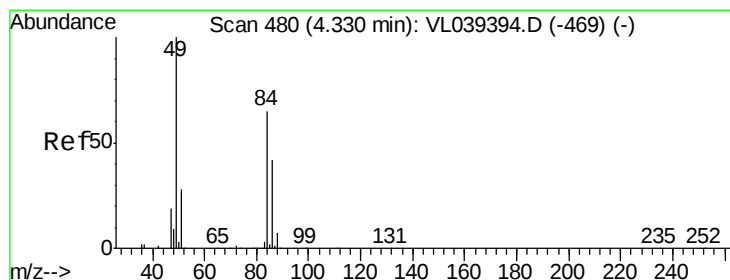
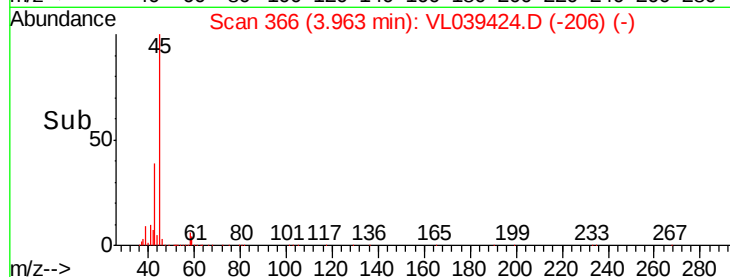
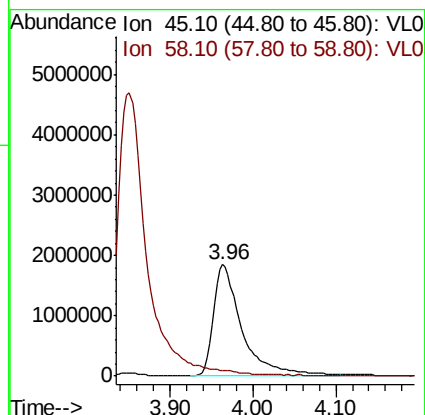
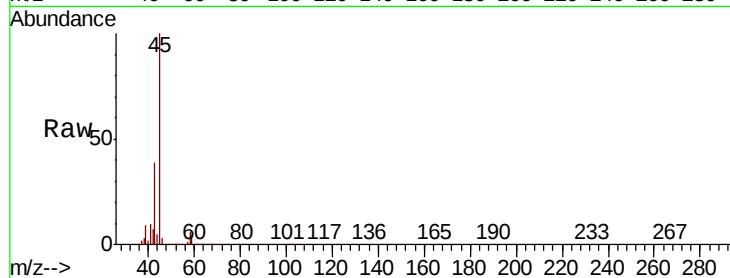
Acq: 5 Jul 2022 18:08 SV1

Tot Ion: 45 Resp: 4419135

Ion Ratio Lower Upper

45 100

58 0.0 3.2 4.8#



#20

Methylene Chloride

Concen: 1.271 ppbv

RT: 4.36 min Scan# 488

Delta R.T. 0.03 min

Lab File: VL039424.D

Acq: 5 Jul 2022 18:08

Tgt Ion: 84 Resp: 87077

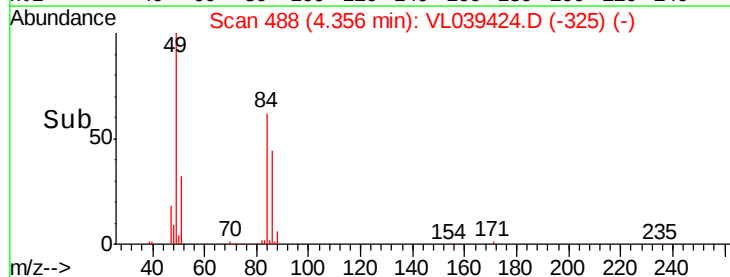
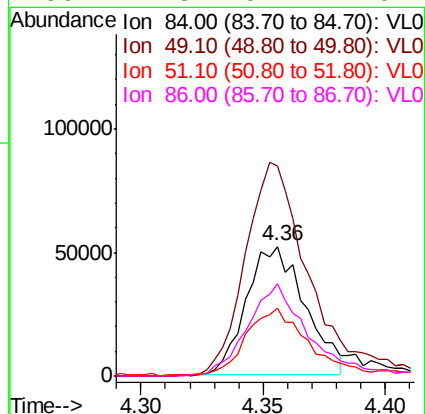
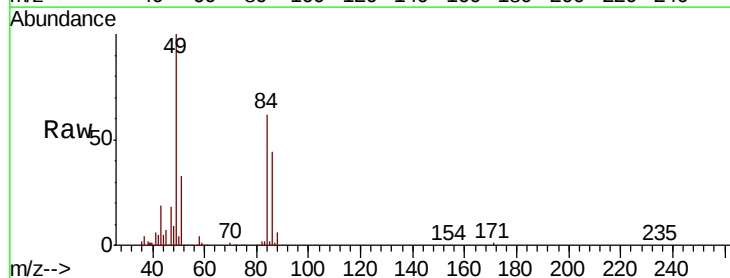
Ion Ratio Lower Upper

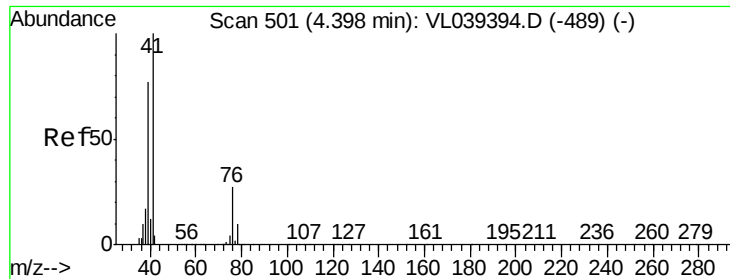
84 100

49 162.0 123.1 184.7

51 51.8 34.4 51.6#

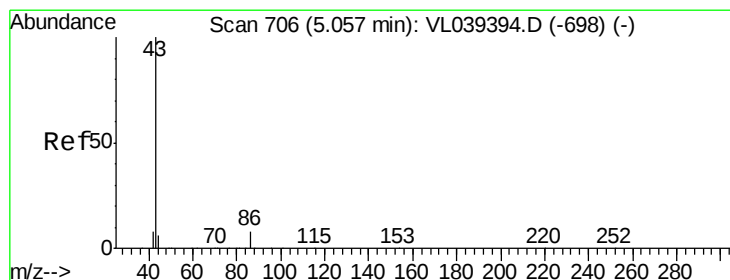
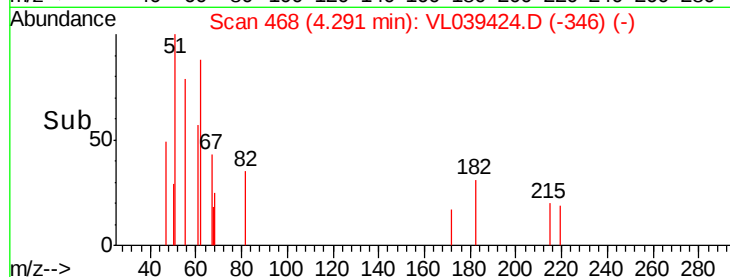
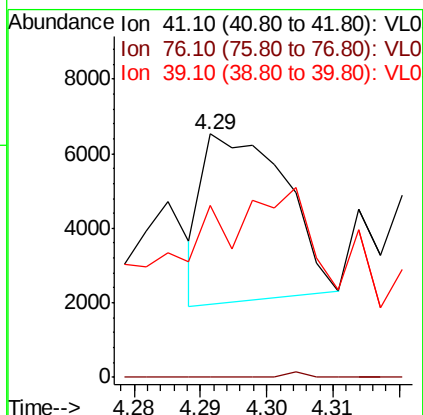
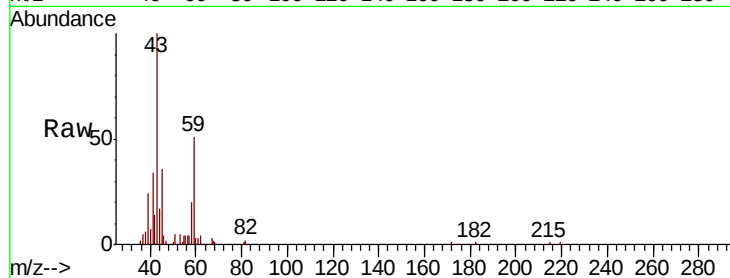
86 71.3 51.1 76.7





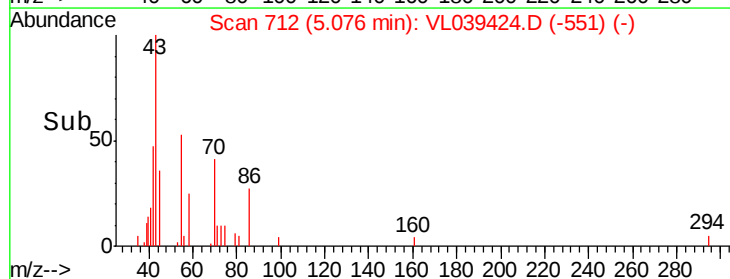
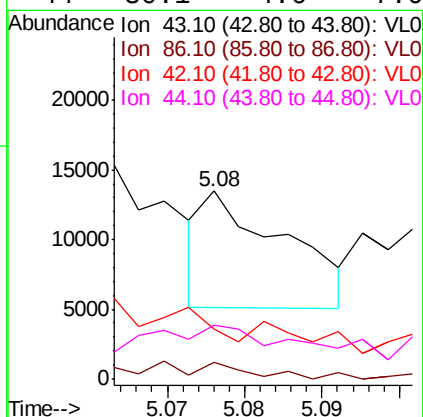
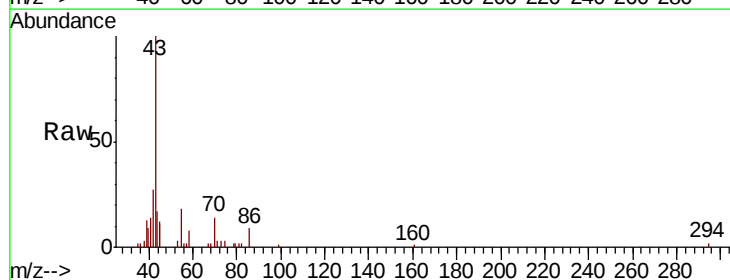
#21
Allvl Chloride
Concen: 0.033 ppbv
RT: 4.29
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 5 Jul 2022 18:08

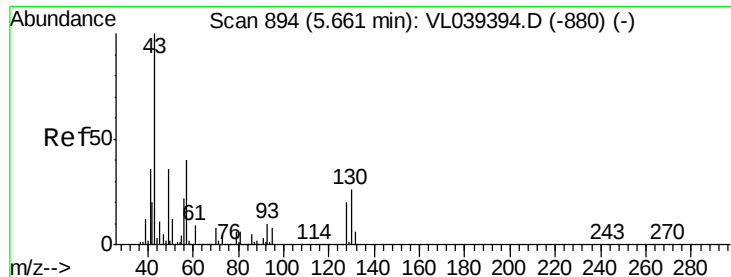
Tot Ion	Ratio	Lower	Upper
41	100		
76	0.0	24.4	36.6#
39	0.0	63.5	95.3#



#23
Vinyl Acetate
Concen: 0.054 ppbv
RT: 5.08 min Scan# 712
Delta R.T. 0.02 min
Lab File: VL039424.D
Acq: 5 Jul 2022 18:08

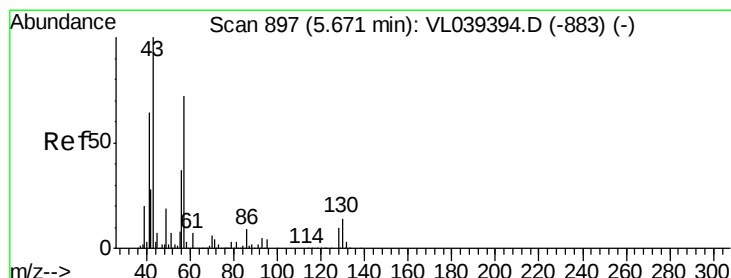
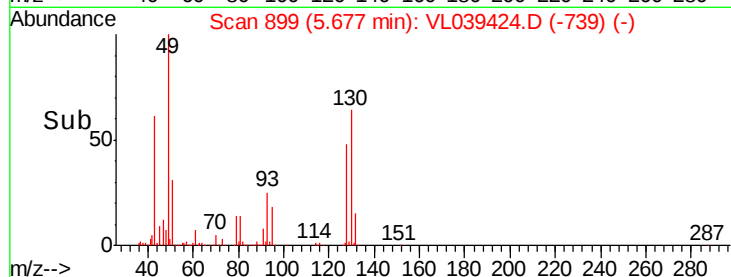
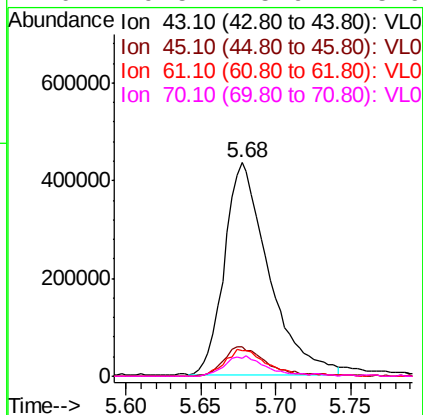
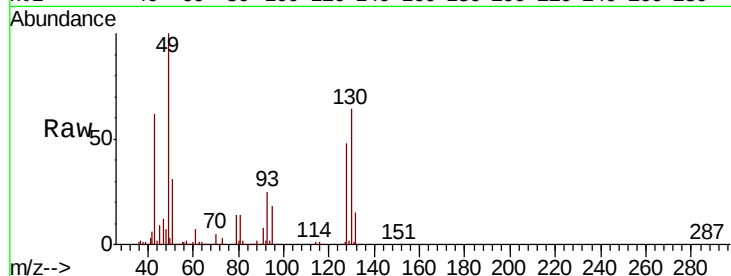
Tgt Ion	Ratio	Lower	Upper
43	100		
86	17.6	5.0	7.6#
42	3.6	7.7	11.5#
44	30.1	4.6	7.0#





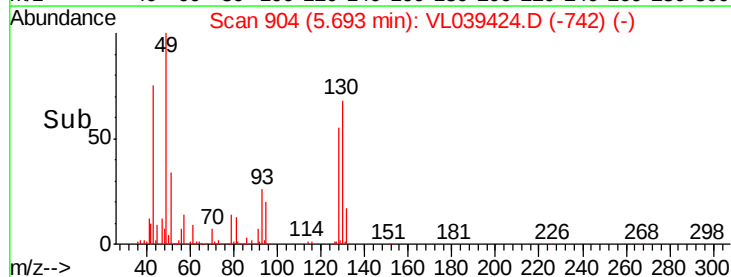
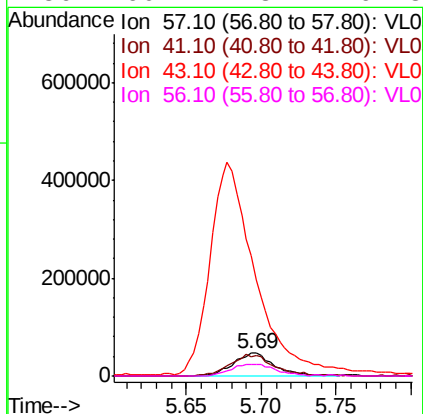
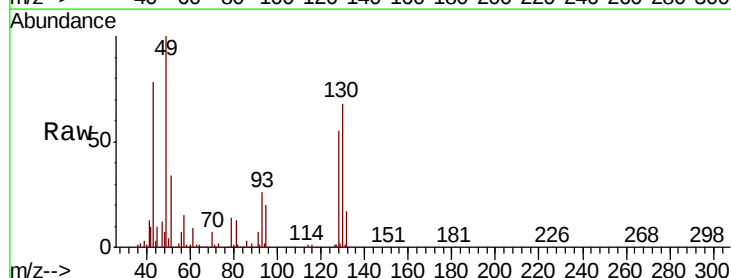
#25
Ethyl Acetate
Concen: 2.521 ppbv
RT: 5.68
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 5 Jul 2022 18:08

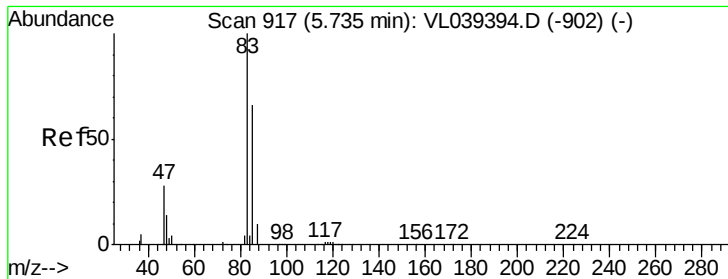
Tot Ion:	43	Resp:	888288
Ion	Ratio	Lower	Upper
43	100		
45	14.4	8.2	12.4#
61	12.7	8.3	12.5#
70	9.5	5.9	8.9#



#26
Hexane
Concen: 0.627 ppbv
RT: 5.69 min Scan# 904
Delta R.T. 0.02 min
Lab File: VL039424.D
Acq: 5 Jul 2022 18:08

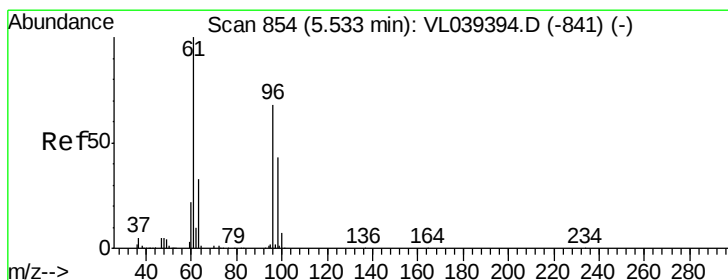
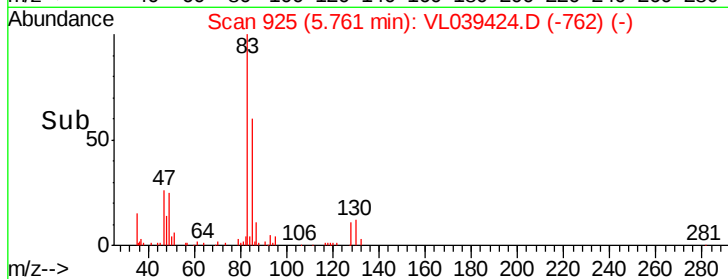
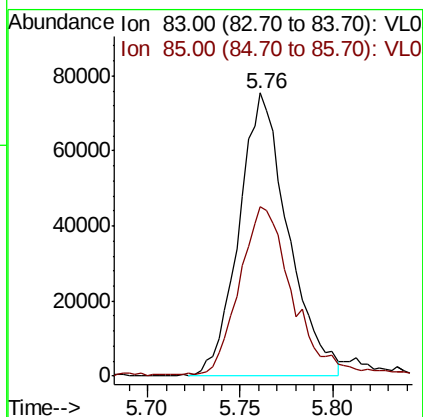
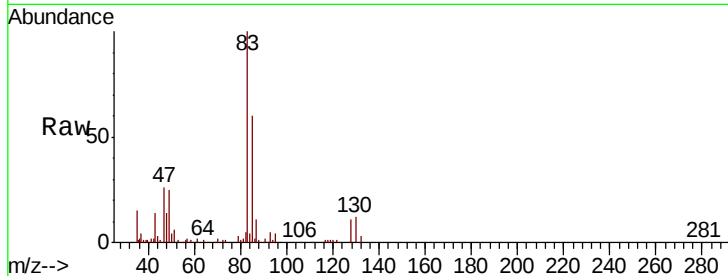
Tgt Ion:	57	Resp:	89052
Ion	Ratio	Lower	Upper
57	100		
41	107.3	76.9	115.3
43	1037.1	191.0	286.6#
56	60.4	43.2	64.8





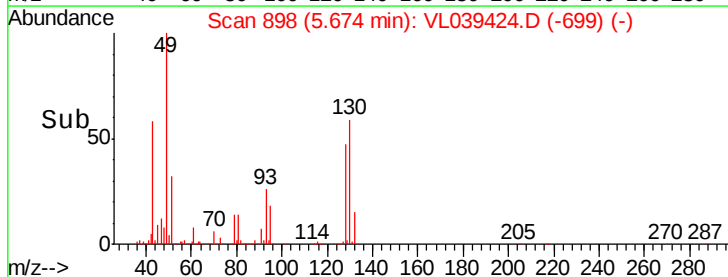
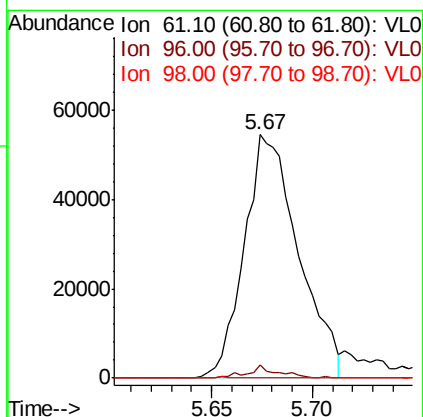
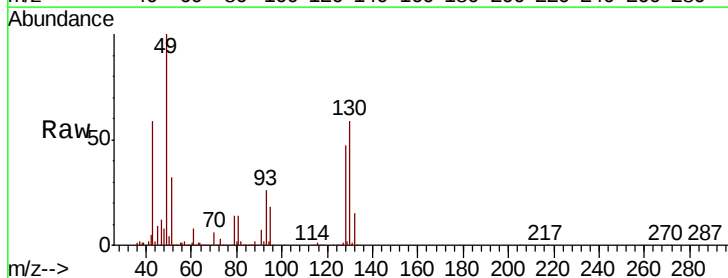
#29
Chloroform
Concen: 0.562 ppbv
RT: 5.76
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
SV1
Acq: 5 Jul 2022 18:08

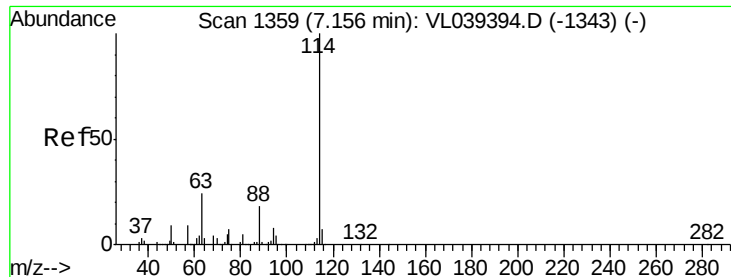
Tot Ion: 83 Resp: 138848
Ion Ratio Lower Upper
83 100
85 58.8 52.8 79.2



#31
cis-1,2-Dichloroethene
Concen: 0.680 ppbv
RT: 5.67 min Scan# 898
Delta R.T.: 0.14 min
Lab File: VL039424.D
Acq: 5 Jul 2022 18:08

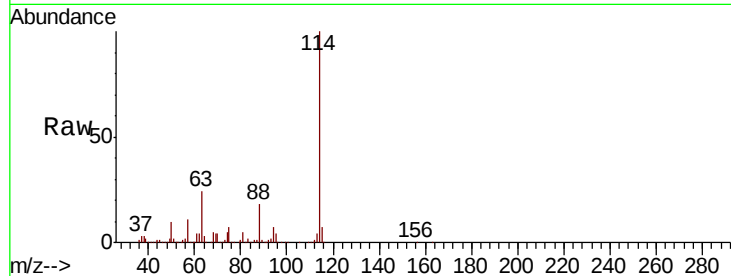
Tgt Ion: 61 Resp: 102458
Ion Ratio Lower Upper
61 100
96 5.5 54.1 81.1#
98 0.0 34.6 52.0#



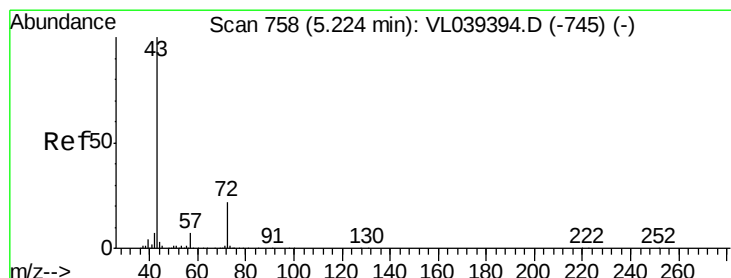
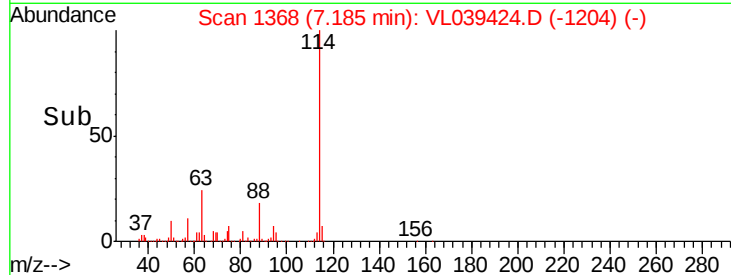
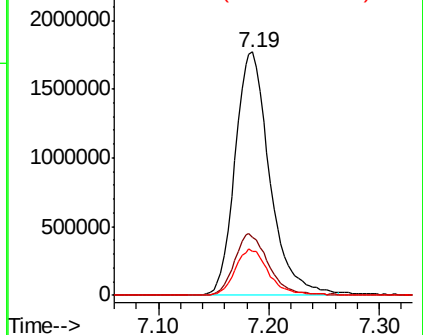


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 5 Jul 2022 18:08

Tot Ion:114 Resp: 3858716
 Ion Ratio Lower Upper
 114 100
 63 25.2 20.2 30.4
 88 18.7 14.5 21.7

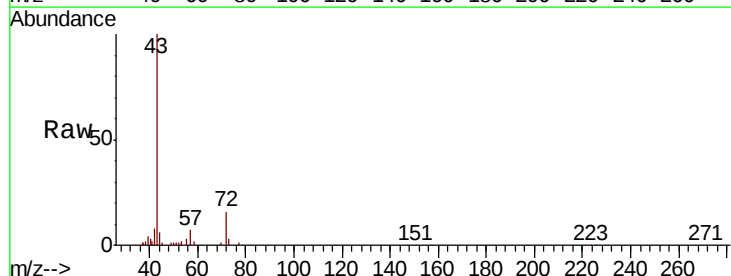


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

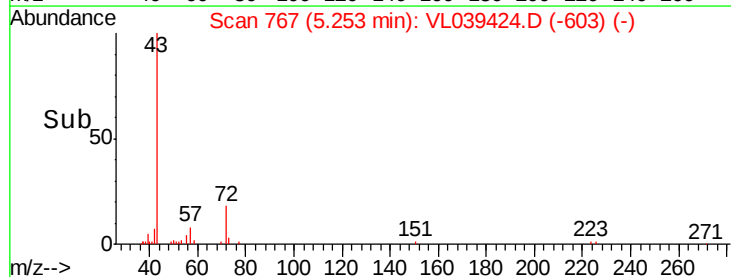
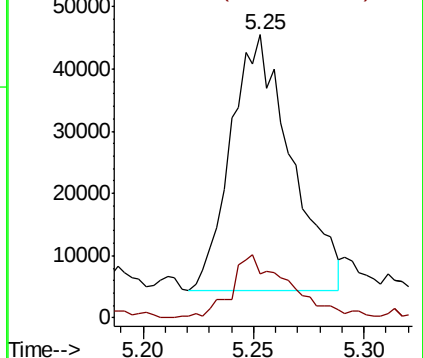


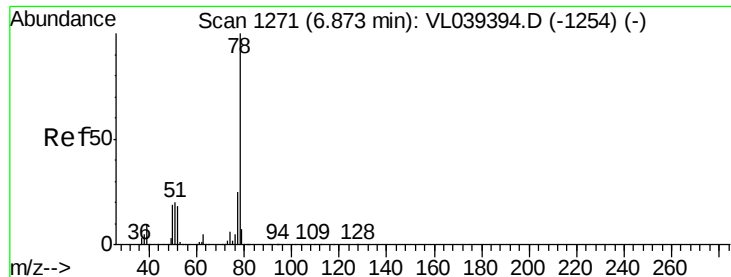
#34
 2-Butanone
 Concen: 0.405 ppbv
 RT: 5.25 min Scan# 767
 Delta R.T. 0.03 min
 Lab File: VL039424.D
 Acq: 5 Jul 2022 18:08

Tgt Ion: 43 Resp: 78627
 Ion Ratio Lower Upper
 43 100
 72 24.7 17.9 26.9



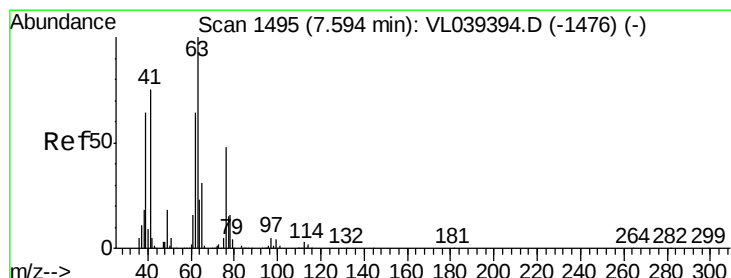
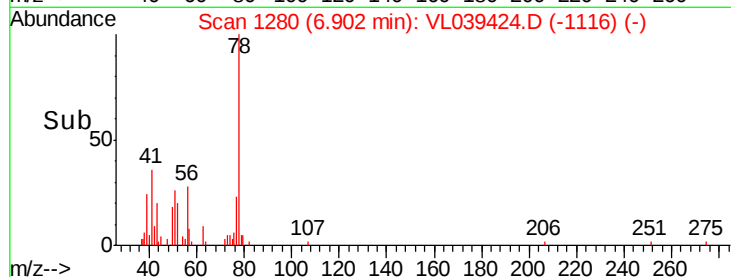
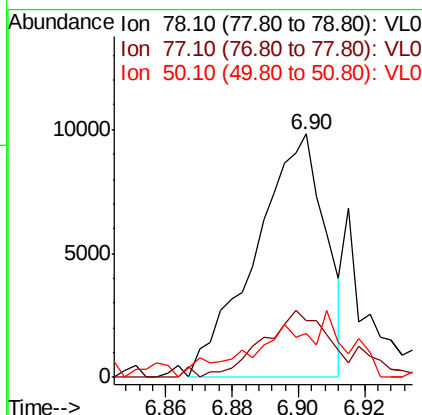
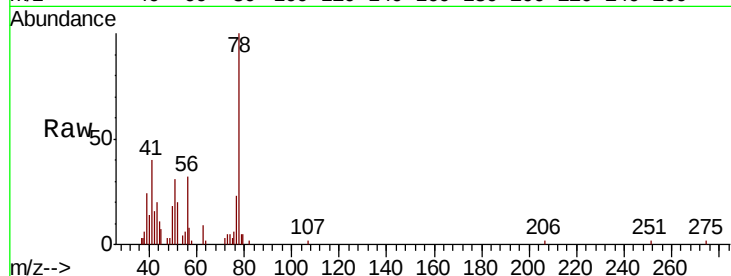
Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





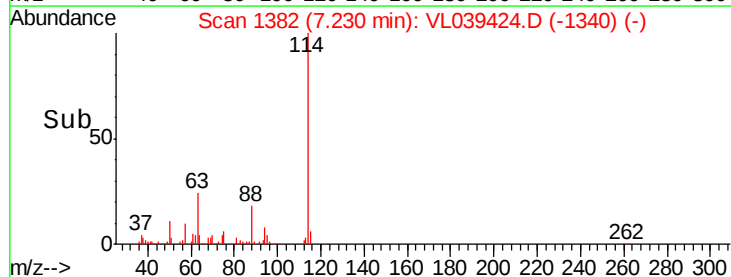
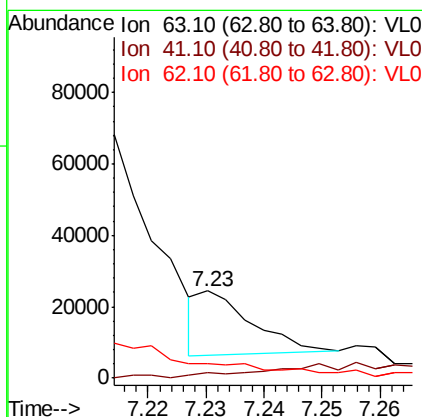
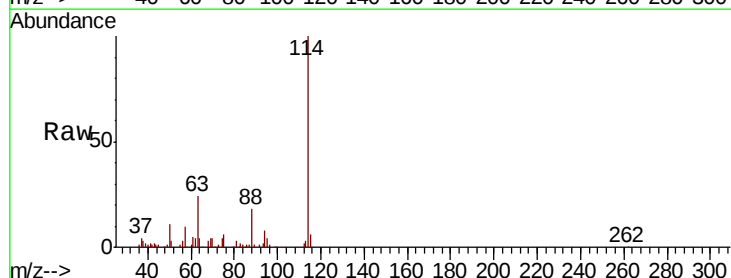
#36
Benzene
Concen: 0.048 ppbv
RT: 6.90
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV1
Acq: 5 Jul 2022 18:08

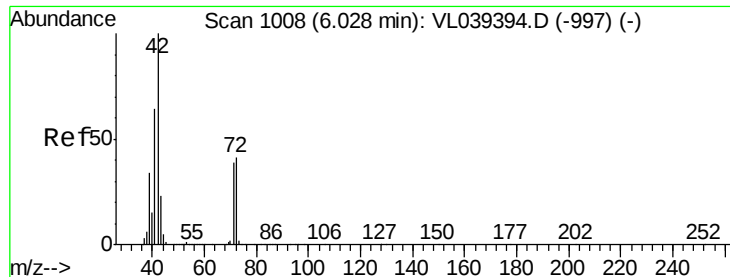
Tot Ion	78	Resp	14450
Ion Ratio	Lower	Upper	
78	100		
77	19.1	20.3	30.5#
50	14.5	15.5	23.3#



#39
1,2-Dichloropropane
Concen: 0.101 ppbv
RT: 7.23 min Scan# 1382
Delta R.T. -0.36 min
Lab File: VL039424.D
Acq: 5 Jul 2022 18:08

Tgt Ion	63	Resp	11244
Ion Ratio	Lower	Upper	
63	100		
41	1.0	59.6	89.4#
62	13.8	51.4	77.0#





#41

Tetrahydrofuran

Concen: 0.844 ppbv

RT: 5.68 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 5 Jul 2022 18:08 SV1

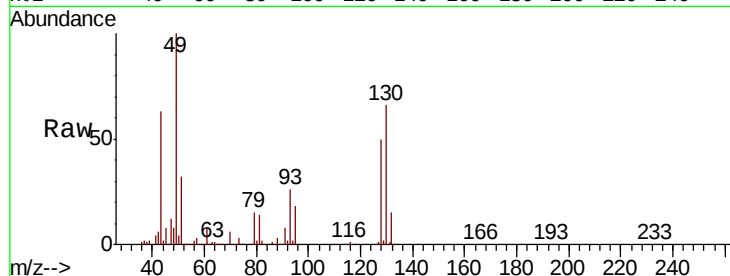
Tot Ion: 42 Resp: 94963

Ion Ratio Lower Upper

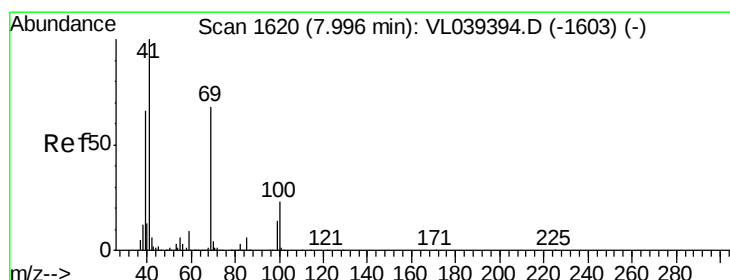
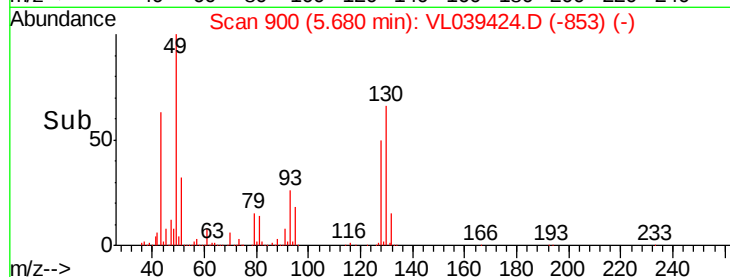
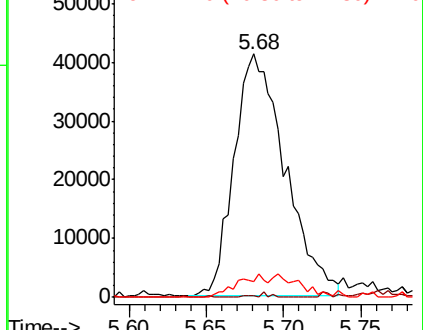
42 100

72 0.2 31.8 47.8#

71 10.9 31.8 47.8#



Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0



#43

Methyl Methacrylate

Concen: 14.732 ppbv

RT: 8.02 min Scan# 1627

Delta R.T. 0.02 min

Lab File: VL039424.D

Acq: 5 Jul 2022 18:08

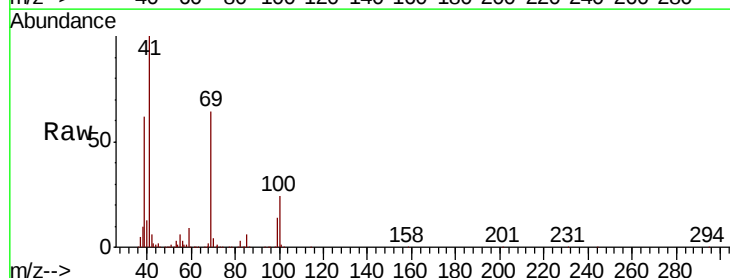
Tgt Ion: 69 Resp: 1672955

Ion Ratio Lower Upper

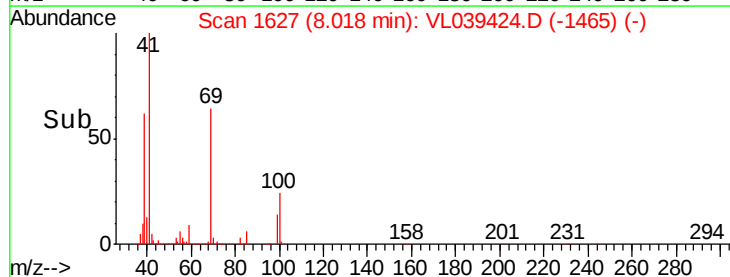
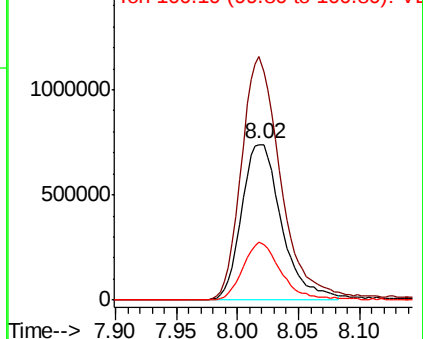
69 100

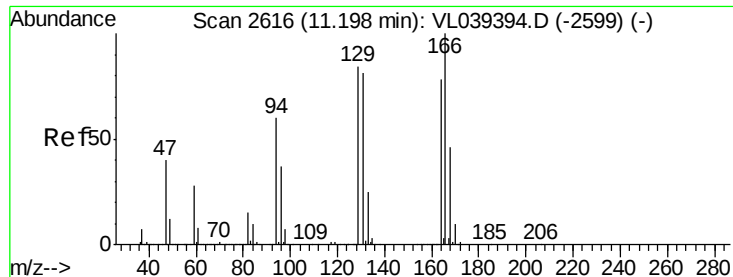
41 159.2 120.8 181.2

100 36.5 27.8 41.6



Abundance Ion 69.10 (68.80 to 69.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 100.10 (99.80 to 100.80): VL0





#52

Tetrachloroethene

Concen: 0.339 ppbv

RT: 11.23

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 5 Jul 2022 18:08

Tot Ion:164 Resp: 40772

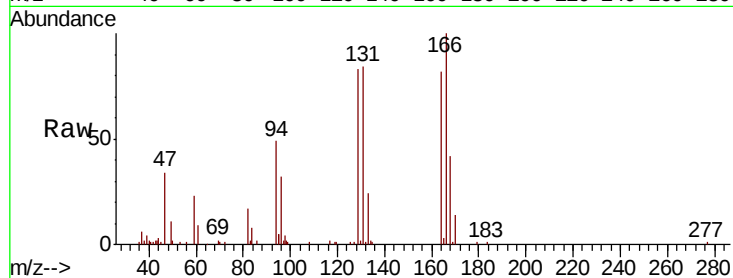
Ion Ratio Lower Upper

164 100

166 120.0 102.2 153.2

129 101.5 85.8 128.8

131 98.4 83.3 124.9

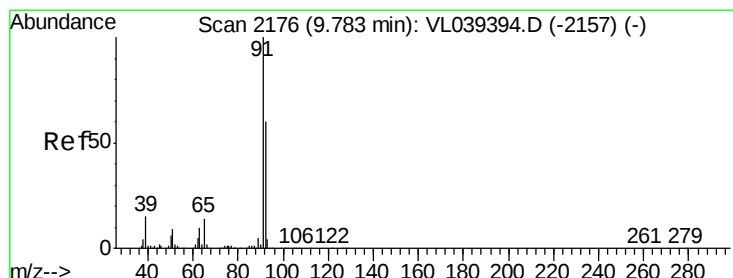
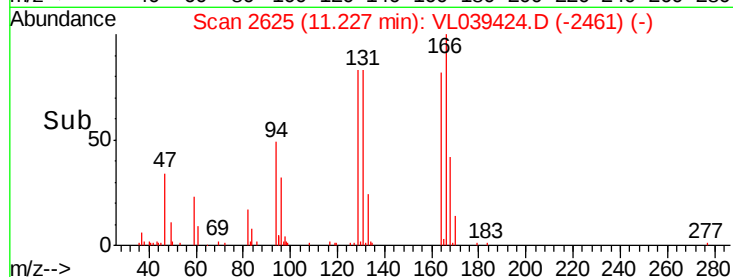
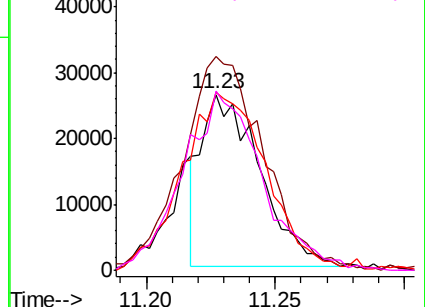


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.195 ppbv

RT: 9.82 min Scan# 2187

Delta R.T. 0.04 min

Lab File: VL039424.D

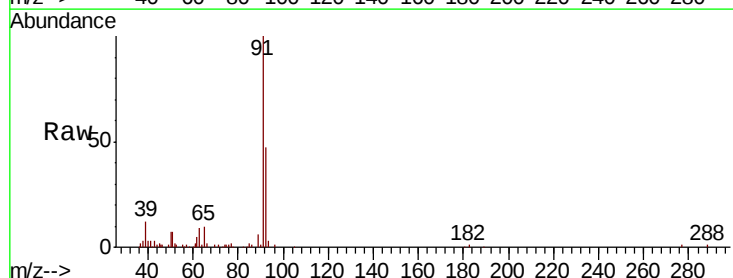
Acq: 5 Jul 2022 18:08

Tgt Ion: 91 Resp: 67279

Ion Ratio Lower Upper

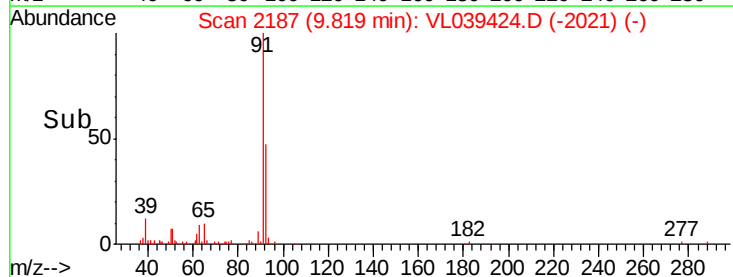
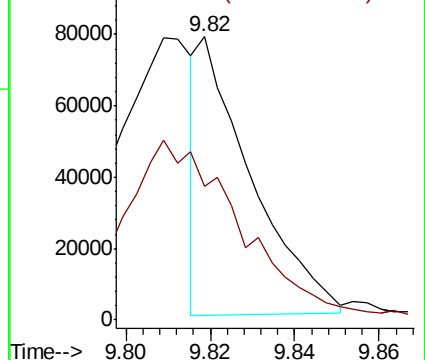
91 100

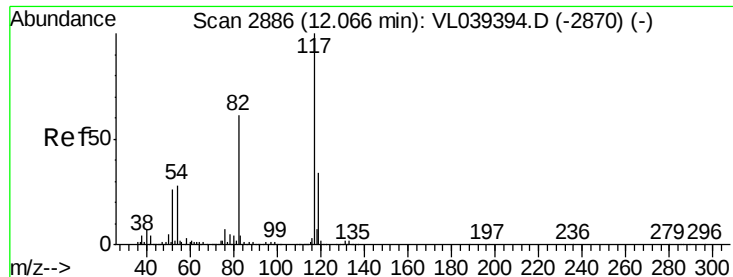
92 0.0 48.2 72.2#



Abundance Ion 91.10 (90.80 to 91.80): VL0

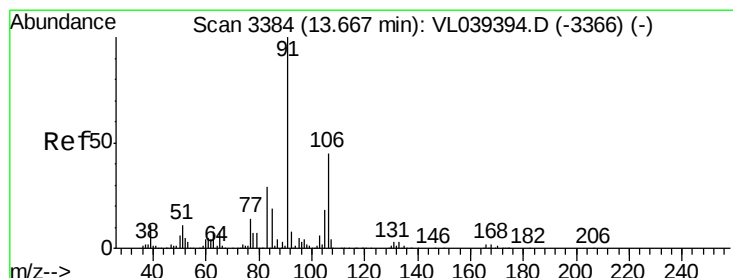
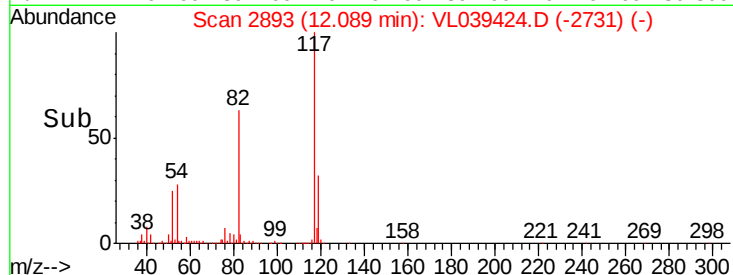
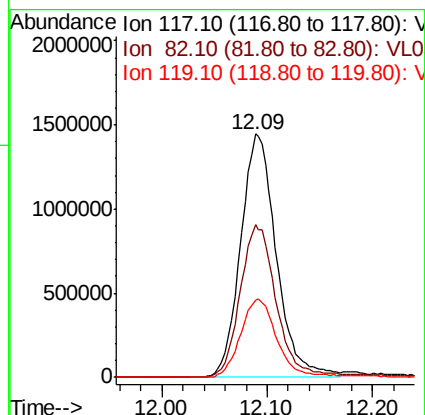
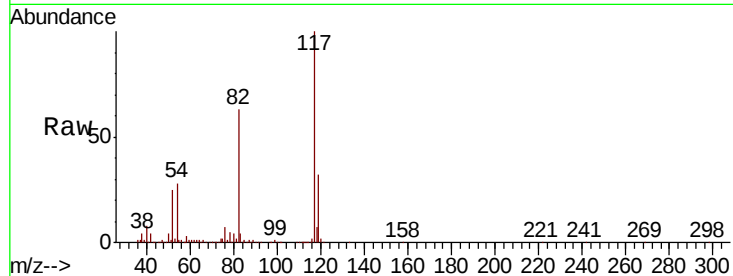
Ion 92.10 (91.80 to 92.80): VL0





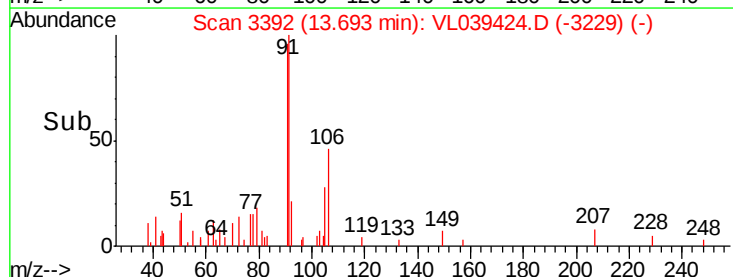
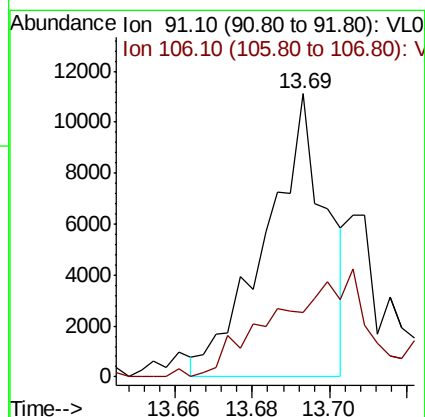
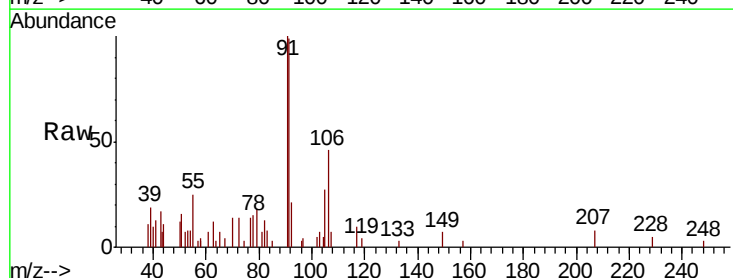
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
SV1
Acq: 5 Jul 2022 18:08

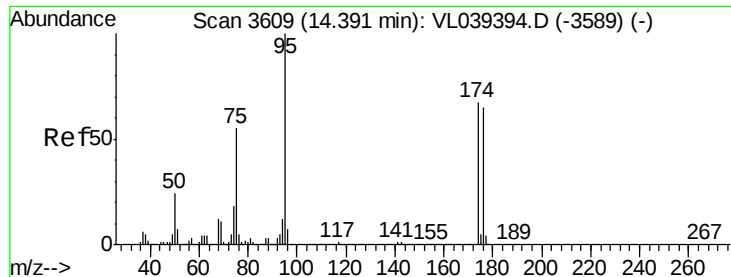
Tot Ion:117 Resp: 3410250
Ion Ratio Lower Upper
117 100
82 65.8 50.8 76.2
119 33.5 24.1 36.1



#60
o-Xylene
Concen: 0.033 ppbv
RT: 13.69 min Scan# 3392
Delta R.T.: 0.03 min
Lab File: VL039424.D
Acq: 5 Jul 2022 18:08

Tgt Ion: 91 Resp: 11990
Ion Ratio Lower Upper
91 100
106 0.0 22.4 67.3#





#68

1-Bromo-4-Fluorobenzene

Concen: 9.943 ppbv

RT: 14.42

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 5 Jul 2022 18:08

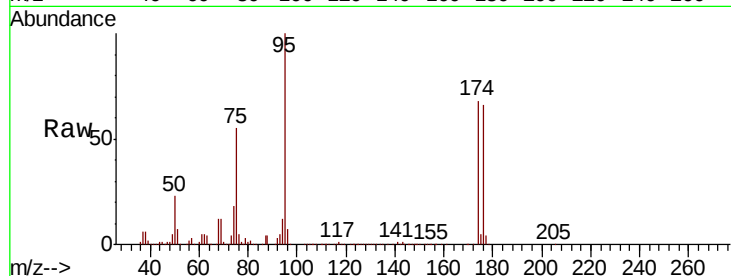
Tot Ion: 95 Resp: 2515516

Ion Ratio Lower Upper

95 100

174 72.1 55.9 83.9

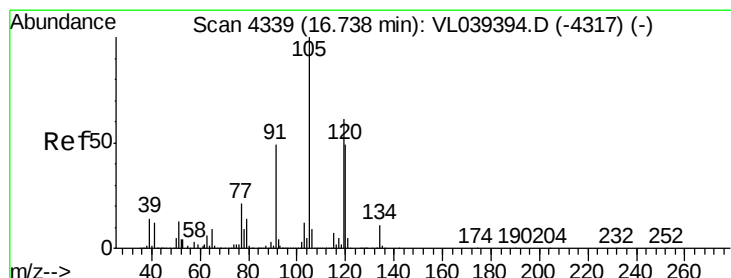
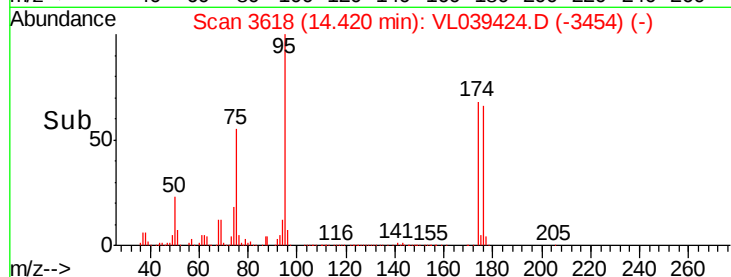
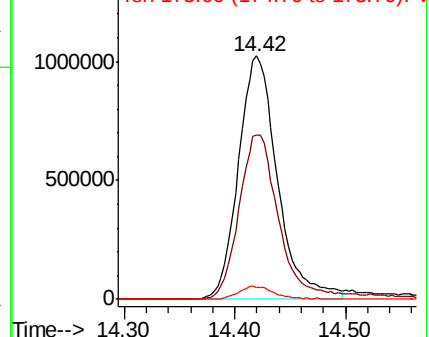
175 5.1 4.2 6.4



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V



#74

1,2,4-Trimethylbenzene

Concen: 0.040 ppbv

RT: 16.76 min Scan# 4347

Delta R.T. 0.03 min

Lab File: VL039424.D

Acq: 5 Jul 2022 18:08

Tgt Ion:105 Resp: 17675

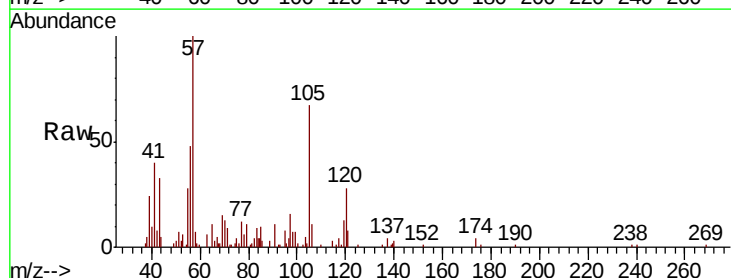
Ion Ratio Lower Upper

105 100

120 37.8 39.5 59.3#

91 10.0 39.2 58.8#

77 7.0 17.2 25.8#

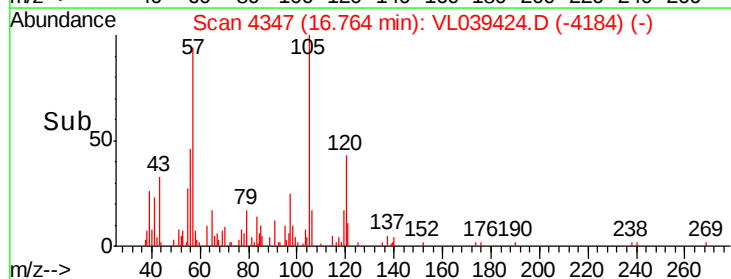
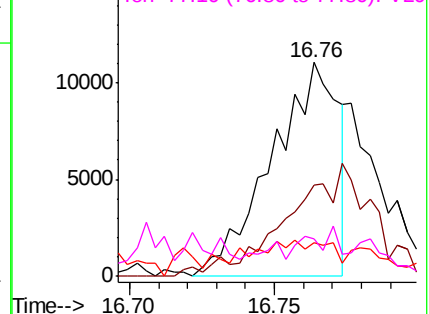


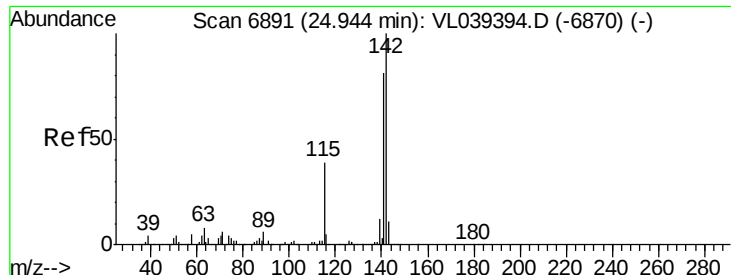
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#80

Naphthalene, 2-methyl-

Concen: 0.031 ppbv

RT: 24.97

Delta R.T: MSVOA_L

Lab File: ClientSampleId :

SV1

Acq: 5 Jul 2022 18:08

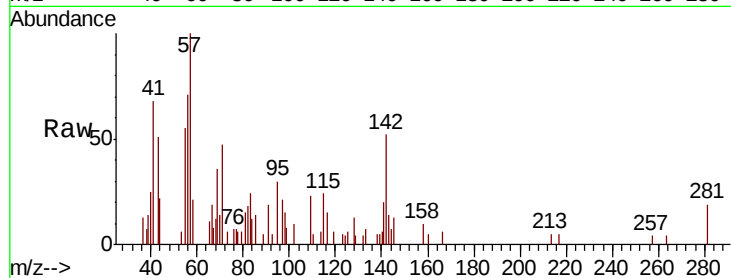
Tot Ion: 142 Resp: 3233

Ion Ratio Lower Upper

142 100

141 153.5 68.9 103.3#

115 79.6 30.0 45.0#



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

