

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090722\
 Data File : VL039620.D
 Acq On : 7 Sep 2022 15:34
 Operator : SY/AP
 Sample : NN4507-03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA-1

Quant Time: Sep 08 05:20:07 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081722AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Aug 26 06:05:16 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.21	49	879280	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	6.66	114	2304212	10.00	ppbv	0.00
55) Chlorobenzene-d5	11.47	117	2114720	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.78	95	1560033	9.78	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.80%

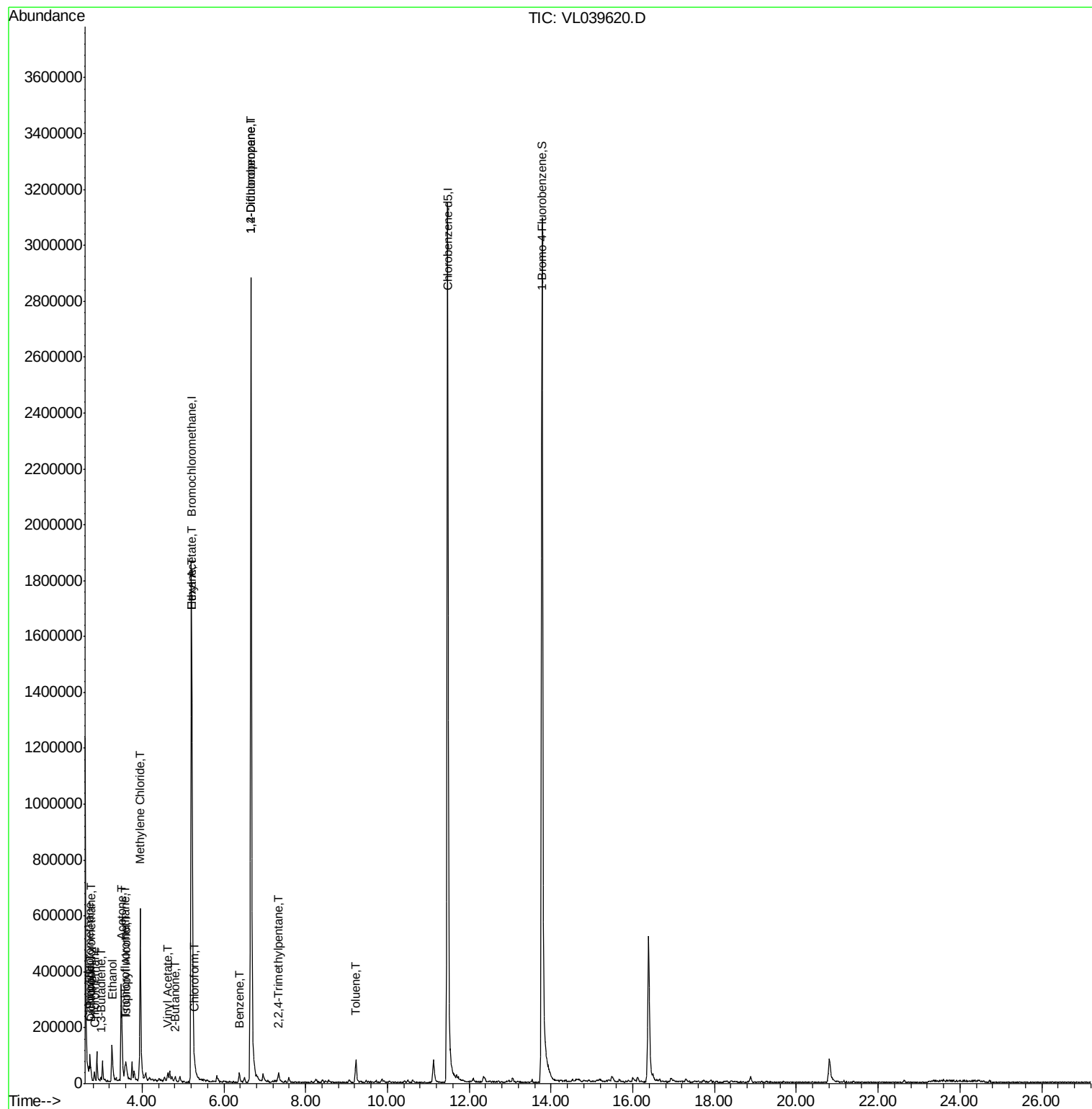
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	2.75	85	24886	0.213	ppbv	98
3) Chlorodifluoromethane	2.70	51	58541	0.559	ppbv #	85
4) Chloromethane	2.84	50	26204	0.415	ppbv	94
9) Propene	2.72	41	12223	0.255	ppbv #	42
11) Trichlorofluoromethane	3.58	101	28649	0.223	ppbv	98
13) Ethanol	3.27	45	146756	42.600	ppbv	73
15) Acetone	3.49	43	400809	4.069	ppbv	100
16) 1,3-Butadiene	2.99	39	5205	0.101	ppbv #	10
19) Isopropyl Alcohol	3.61	45	59176	1.235	ppbv #	91
20) Methylene Chloride	3.95	84	216510	5.411	ppbv	95
23) Vinyl Acetate	4.64	43	5871	0.125	ppbv #	83
25) Ethyl Acetate	5.23	43	153310	0.727	ppbv #	80
26) Hexane	5.23	57	195614	2.274	ppbv #	42
29) Chloroform	5.29	83	4305	0.032	ppbv	85
34) 2-Butanone	4.81	43	12368	0.108	ppbv #	57
36) Benzene	6.38	78	14751	0.084	ppbv #	89
39) 1,2-Dichloropropane	6.67	63	562111	8.512	ppbv #	25
44) 2,2,4-Trimethylpentane	7.34	57	9103	0.031	ppbv #	1
53) Toluene	9.23	91	57268	0.291	ppbv	97

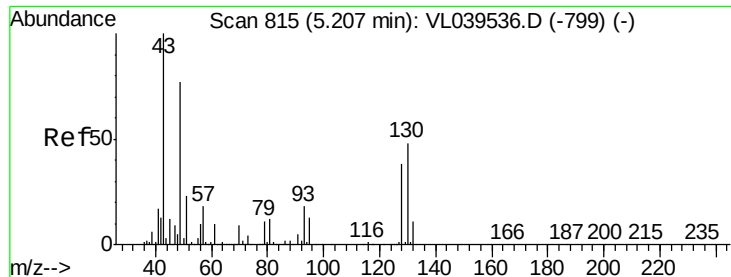
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VL039620.D
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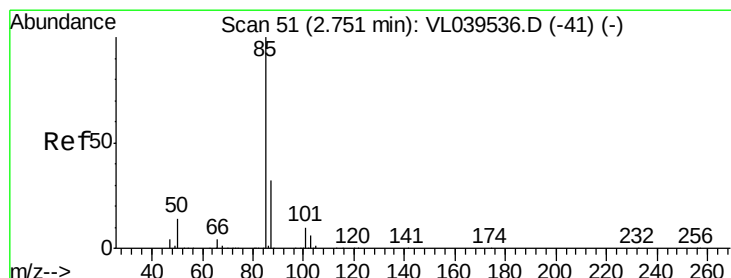
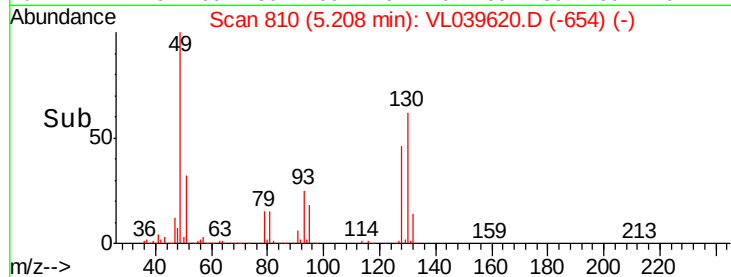
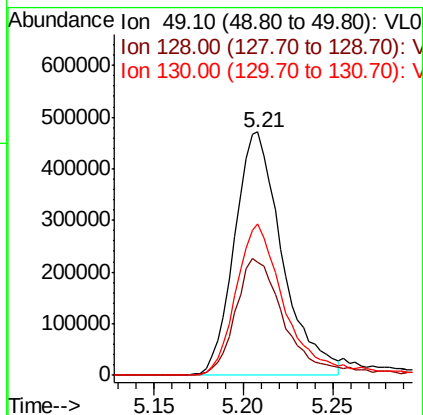
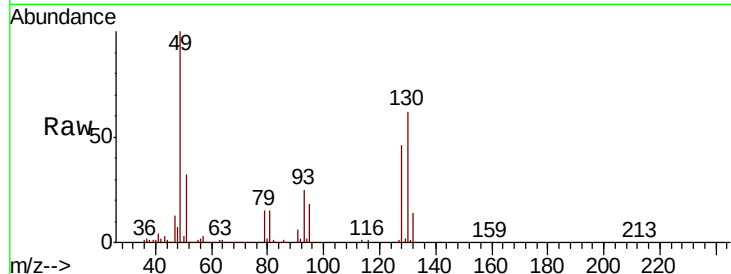
Quant Time: Sep 08 05:20:07 2022
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL081722AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
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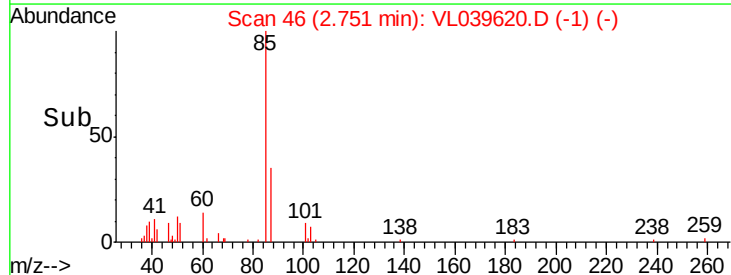
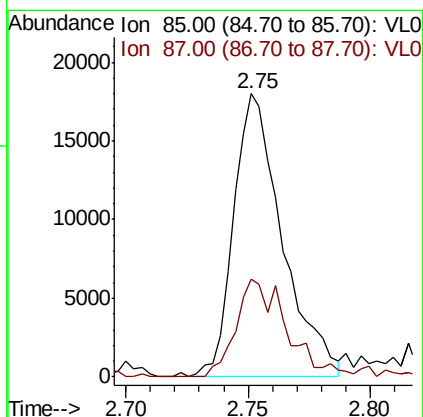
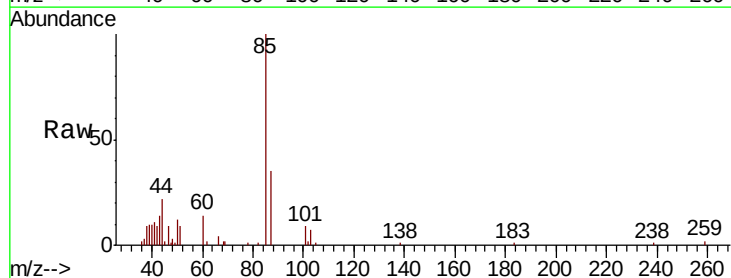
#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.21
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 7 Sep 2022 15:34

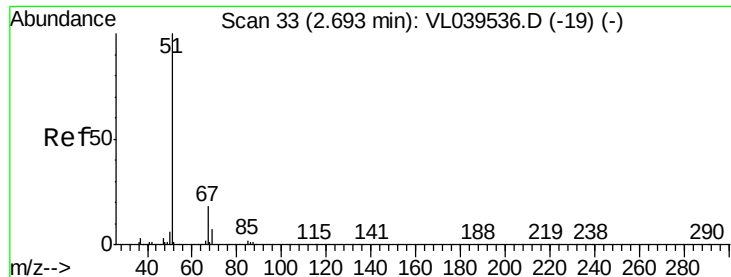
Tot Ion: 49 Resp: 879280
 Ion Ratio Lower Upper
 49 100
 128 51.2 26.7 80.0
 130 66.6 34.3 102.8



#2
 Dichlorodifluoromethane
 Concen: 0.213 ppbv
 RT: 2.75 min Scan# 46
 Delta R.T.: 0.00 min
 Lab File: VL039620.D
 Acq: 7 Sep 2022 15:34

Tgt Ion: 85 Resp: 24886
 Ion Ratio Lower Upper
 85 100
 87 34.6 26.7 40.1





#3

Chlorodifluoromethane

Concen: 0.559 ppbv

RT: 2.70 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: OA-1

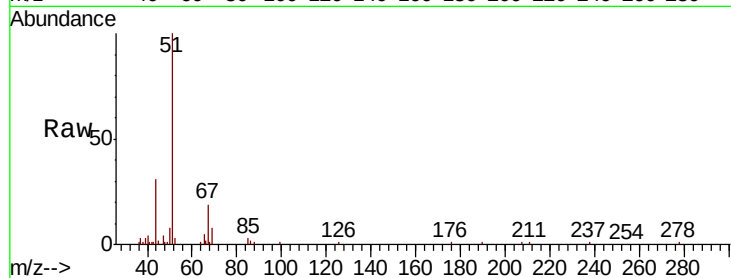
Acq: 7 Sep 2022 15:34

Tot Ion: 51 Resp: 58541

Ion Ratio Lower Upper

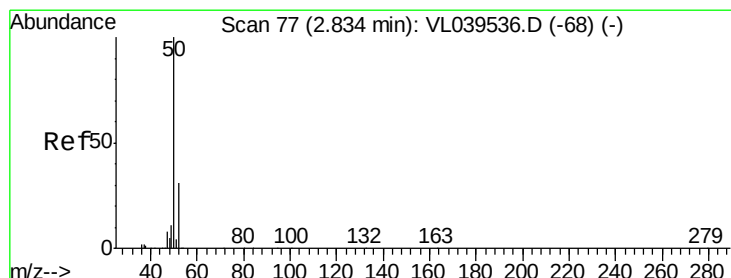
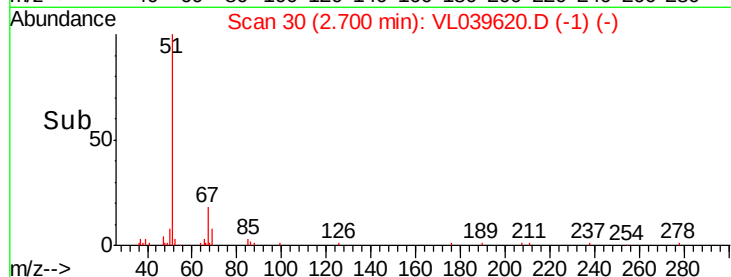
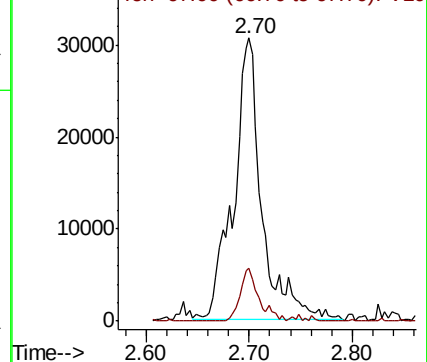
51 100

67 12.9 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: 0.415 ppbv

RT: 2.84 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL039620.D

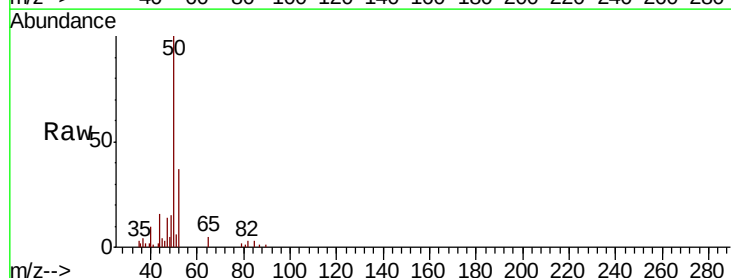
Acq: 7 Sep 2022 15:34

Tgt Ion: 50 Resp: 26204

Ion Ratio Lower Upper

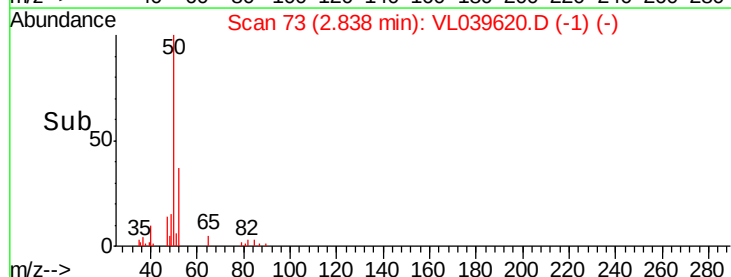
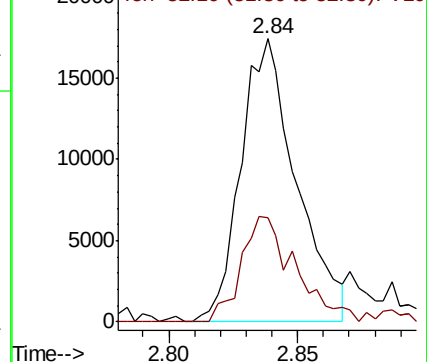
50 100

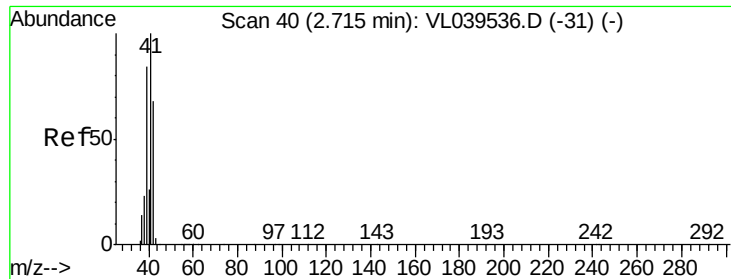
52 36.7 26.5 39.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.255 ppbv

RT: 2.72 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

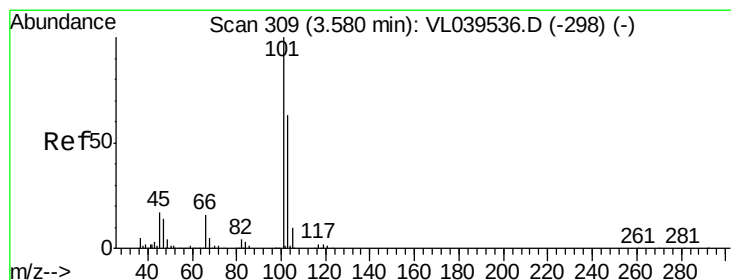
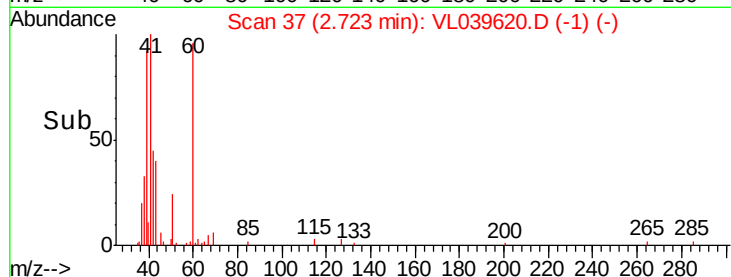
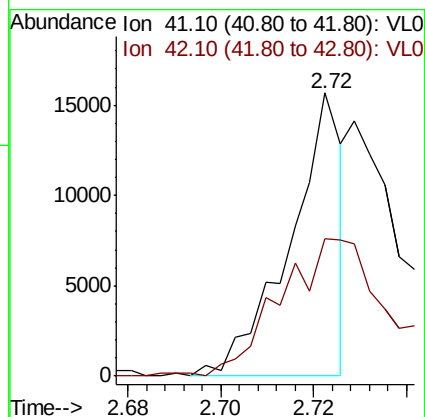
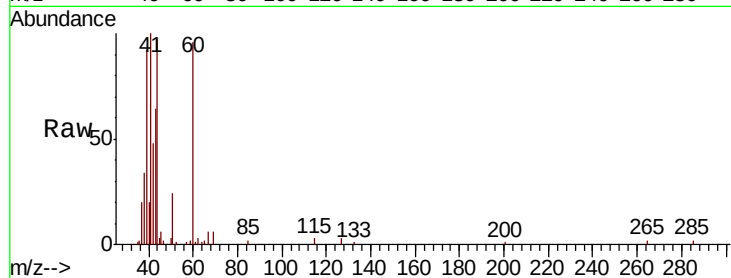
Acq: 7 Sep 2022 15:34

Tot Ion: 41 Resp: 12223

Ion Ratio Lower Upper

41 100

42 116.3 55.2 82.8#



#11

Trichlorofluoromethane

Concen: 0.223 ppbv

RT: 3.58 min Scan# 305

Delta R.T. 0.00 min

Lab File: VL039620.D

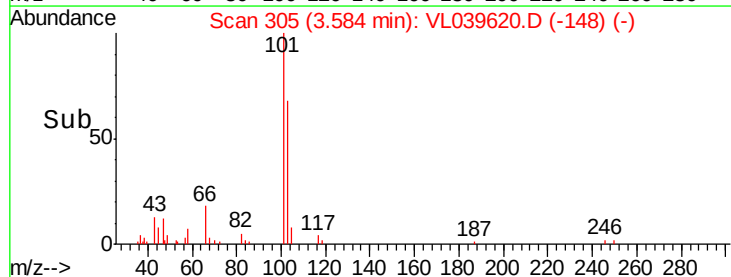
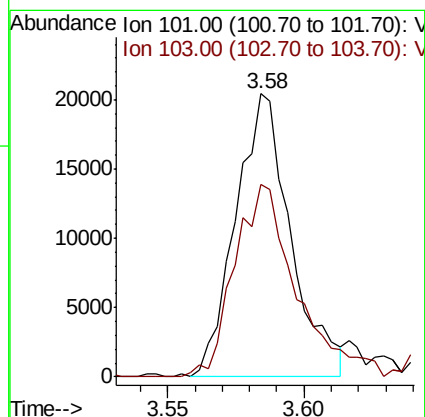
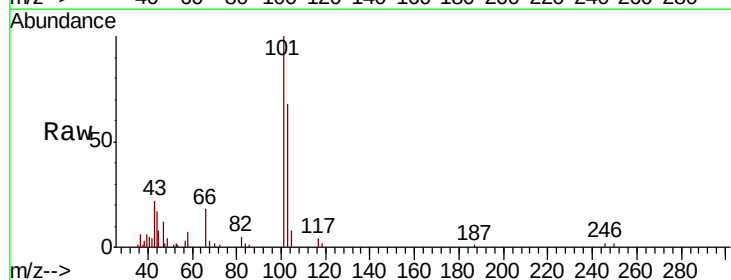
Acq: 7 Sep 2022 15:34

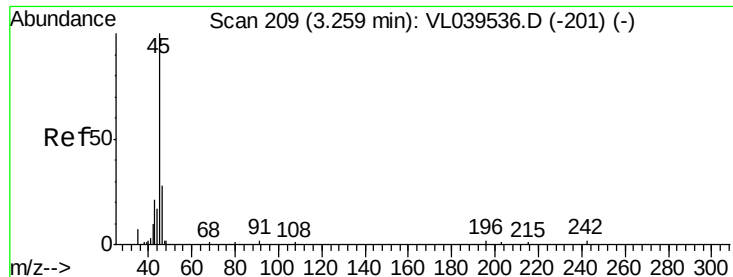
Tgt Ion: 101 Resp: 28649

Ion Ratio Lower Upper

101 100

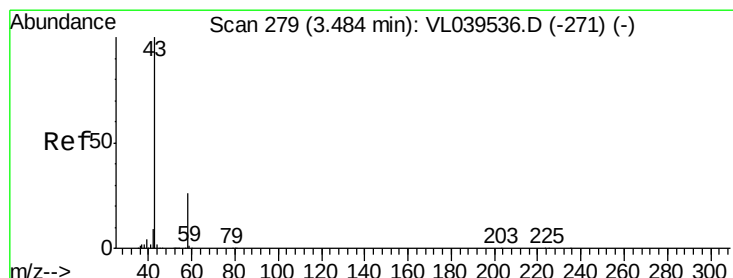
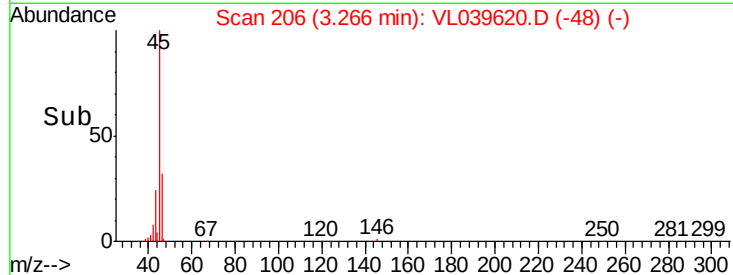
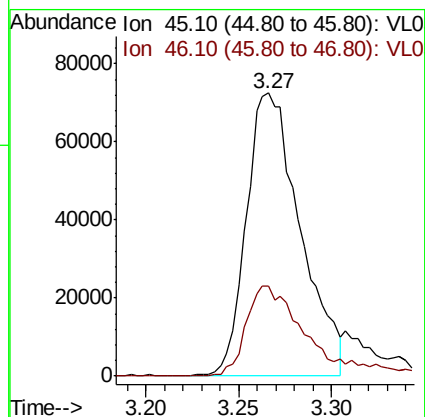
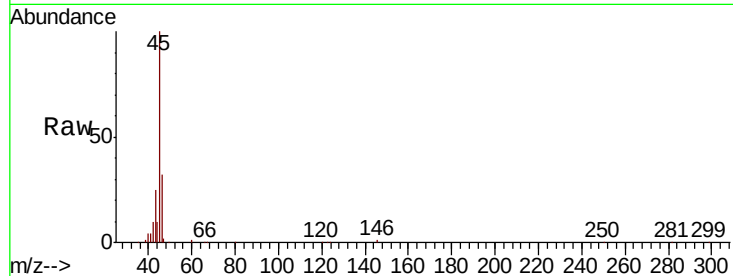
103 66.6 51.8 77.8





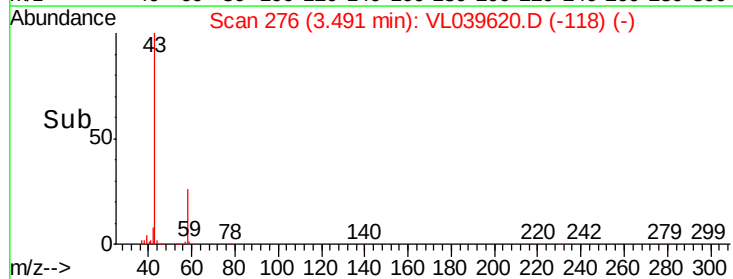
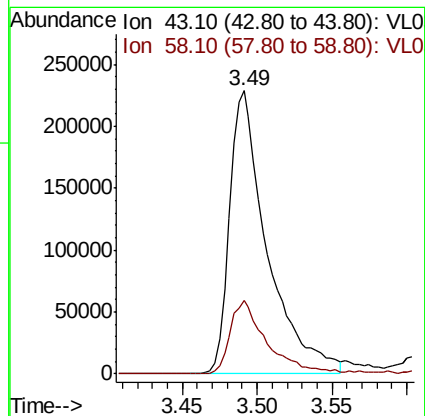
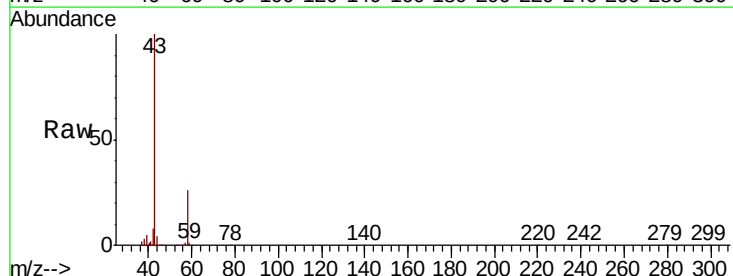
#13
 Ethanol
 Concen: 42.600 ppbv
 RT: 3.27
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 7 Sep 2022 15:34

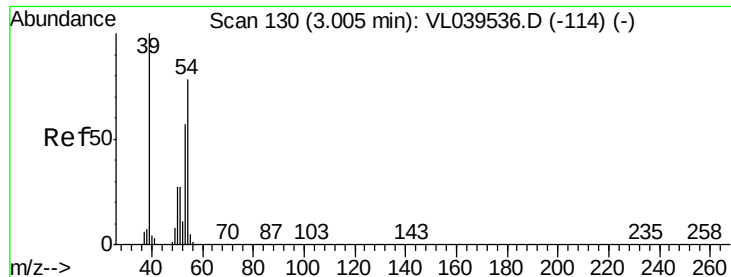
Tot Ion: 45 Resp: 146756
 Ion Ratio Lower Upper
 45 100
 46 36.8 22.8 91.2



#15
 Acetone
 Concen: 4.069 ppbv
 RT: 3.49 min Scan# 276
 Delta R.T. 0.01 min
 Lab File: VL039620.D
 Acq: 7 Sep 2022 15:34

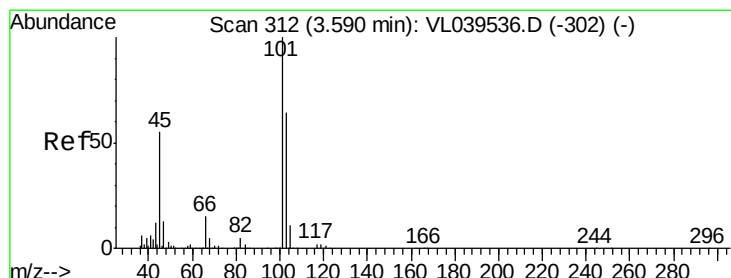
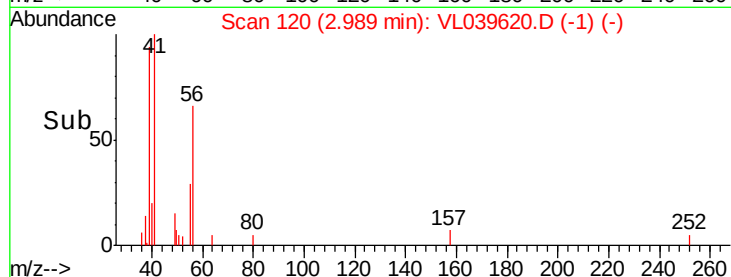
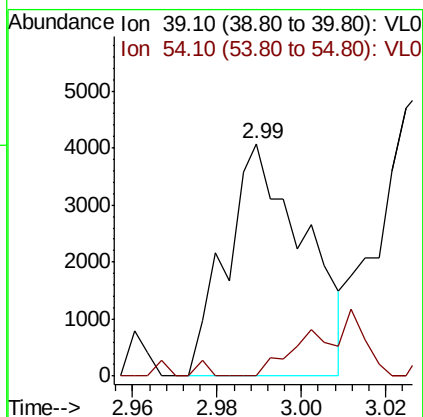
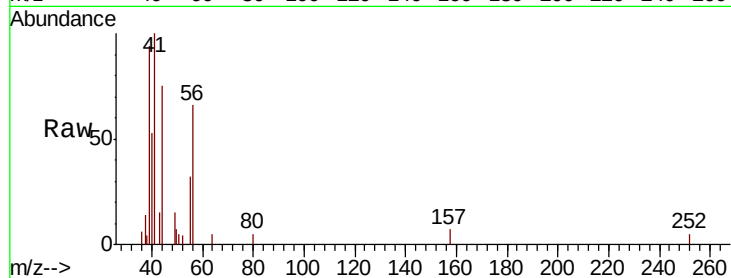
Tgt Ion: 43 Resp: 400809
 Ion Ratio Lower Upper
 43 100
 58 26.2 21.0 31.6





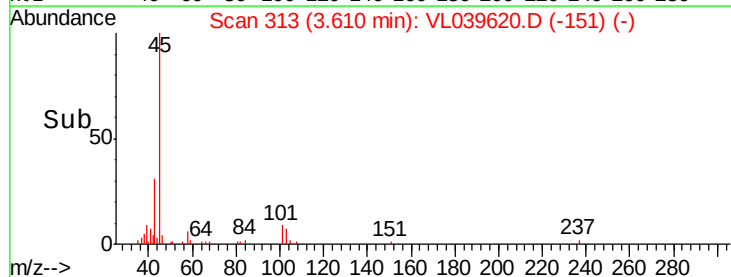
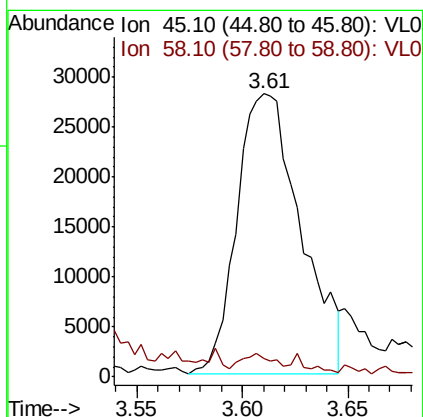
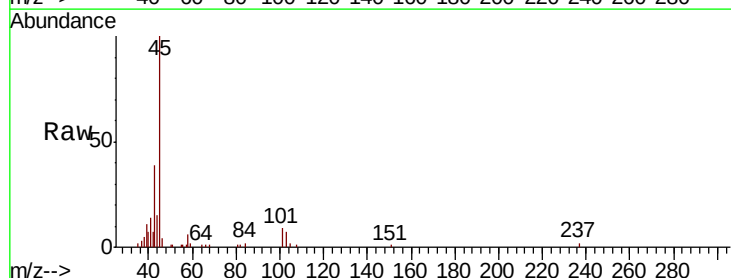
#16
 1,3-Butadiene
 Concen: 0.101 ppbv
 RT: 2.99
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 7 Sep 2022 15:34

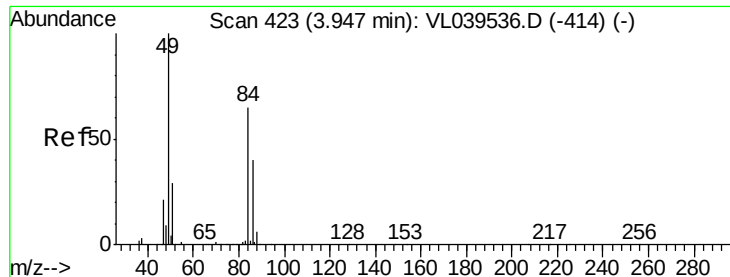
Tot Ion: 39 Resp: 5205
 Ion Ratio Lower Upper
 39 100
 54 0.0 63.7 95.5#



#19
 Isopropyl Alcohol
 Concen: 1.235 ppbv
 RT: 3.61 min Scan# 313
 Delta R.T. 0.02 min
 Lab File: VL039620.D
 Acq: 7 Sep 2022 15:34

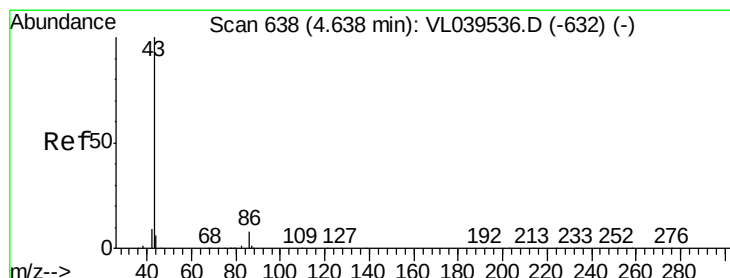
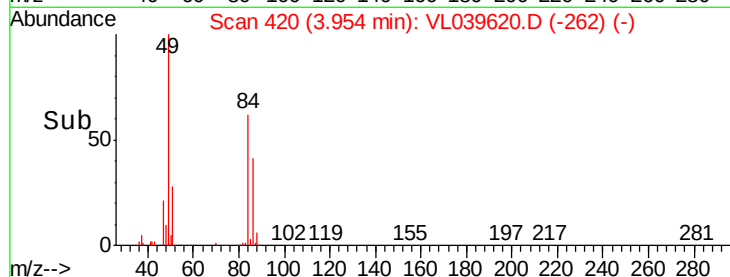
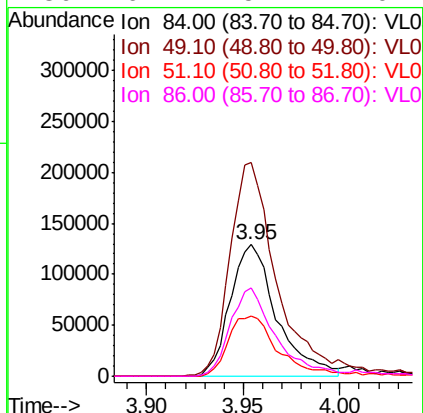
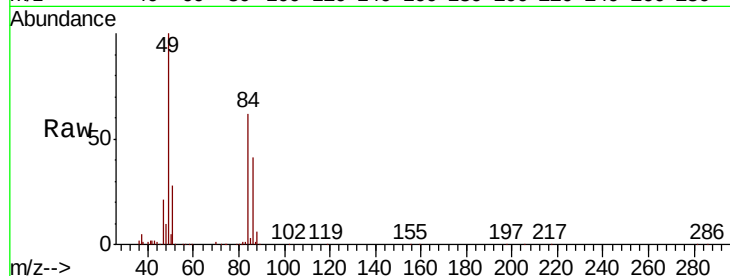
Tgt Ion: 45 Resp: 59176
 Ion Ratio Lower Upper
 45 100
 58 7.0 3.2 4.8#





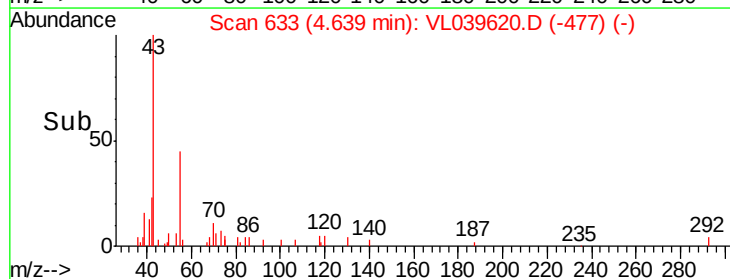
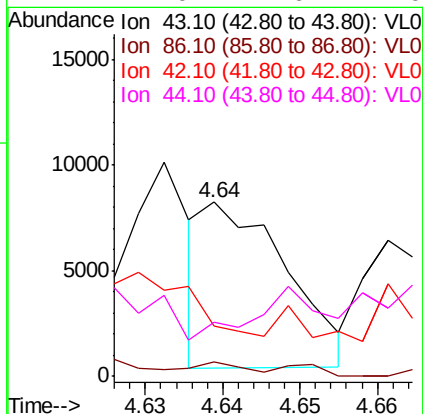
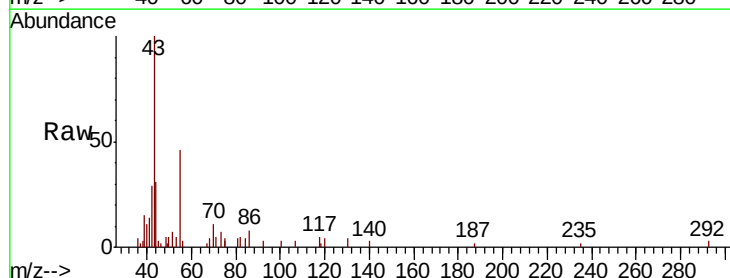
#20
Methylene Chloride
Concen: 5.411 ppbv
RT: 3.95
Delta R.T. MSVOA_1
Lab File: ClientSampleId :
Acq: 7 Sep 2022 15:34

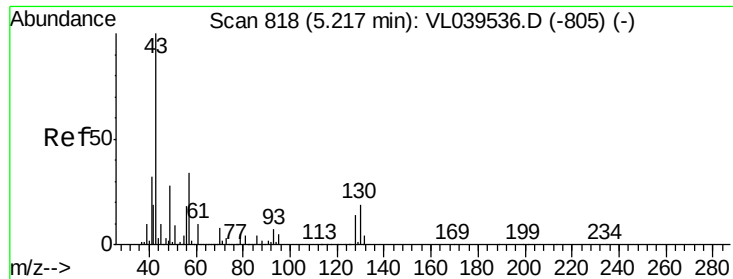
Tot Ion:	84	Resp:	216510
Ion	Ratio	Lower	Upper
84	100		
49	161.6	123.1	184.7
51	45.7	34.4	51.6
86	67.2	51.1	76.7



#23
Vinyl Acetate
Concen: 0.125 ppbv
RT: 4.64 min Scan# 633
Delta R.T. 0.00 min
Lab File: VL039620.D
Acq: 7 Sep 2022 15:34

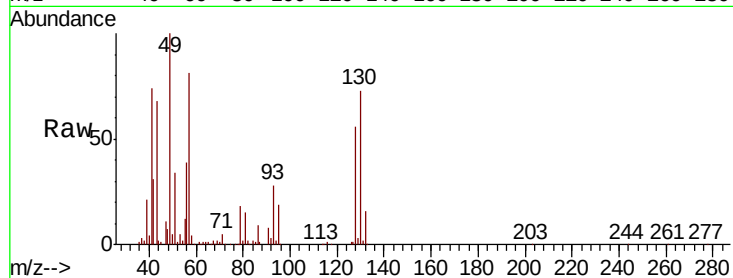
Tgt Ion:	43	Resp:	5871
Ion	Ratio	Lower	Upper
43	100		
86	11.0	5.0	7.6#
42	4.3	7.7	11.5#
44	14.0	4.6	7.0#



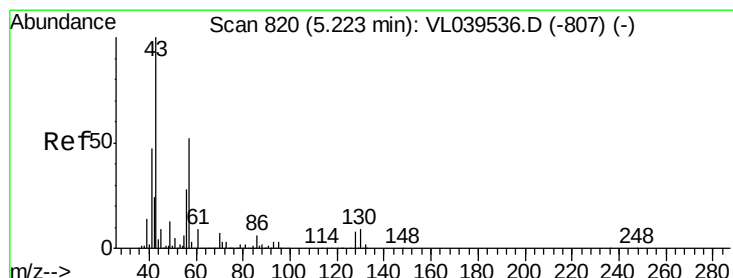
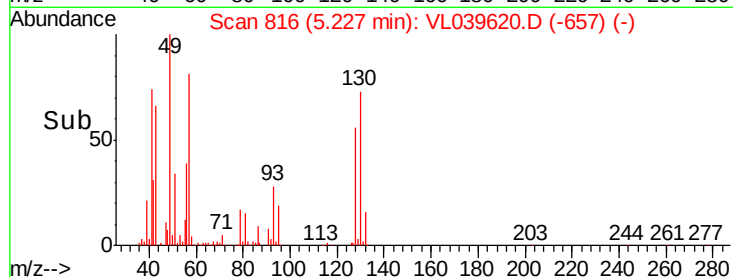
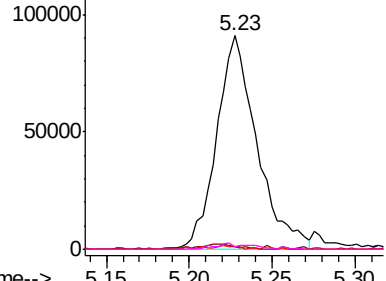


#25
Ethyl Acetate
Concen: 0.727 ppbv
RT: 5.23
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 7 Sep 2022 15:34

Tot Ion:	43	Resp:	153310
Ion	Ratio	Lower	Upper
43	100		
45	2.4	8.2	12.4#
61	1.5	8.3	12.5#
70	2.8	5.9	8.9#

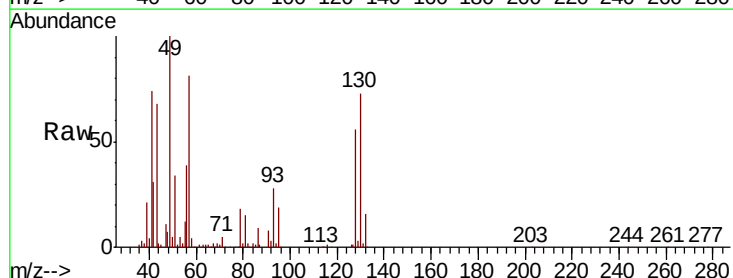


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

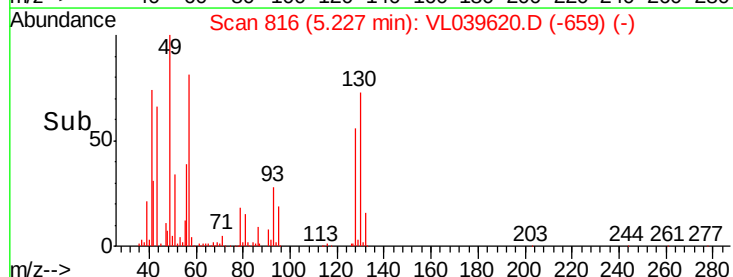
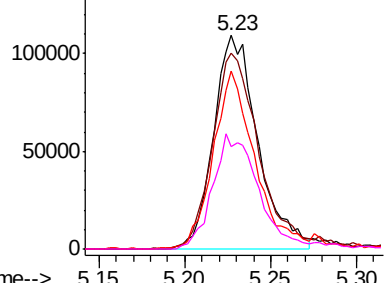


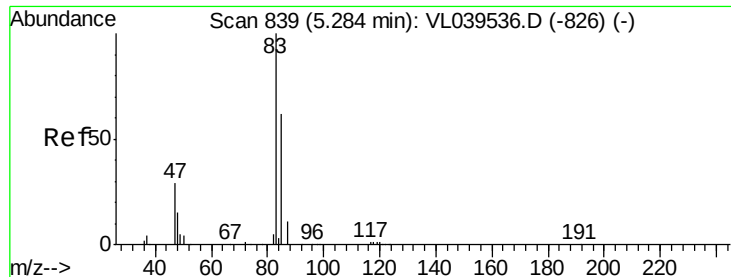
#26
Hexane
Concen: 2.274 ppbv
RT: 5.23 min Scan# 816
Delta R.T. 0.00 min
Lab File: VL039620.D
Acq: 7 Sep 2022 15:34

Tgt Ion:	57	Resp:	195614
Ion	Ratio	Lower	Upper
57	100		
41	100.1	76.9	115.3
43	83.1	191.0	286.6#
56	57.6	43.2	64.8



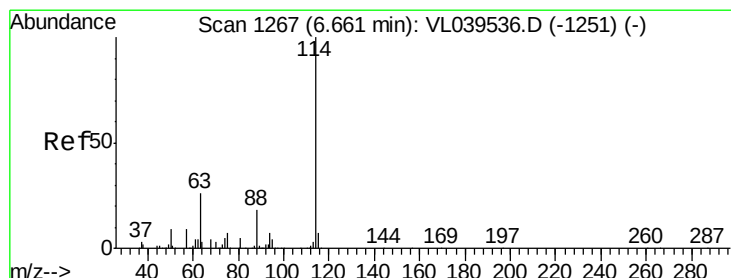
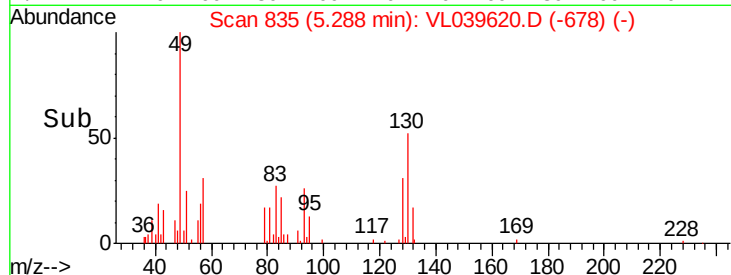
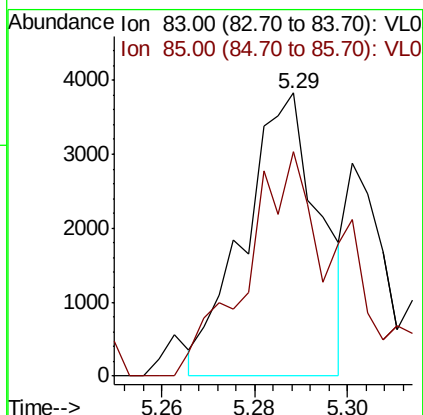
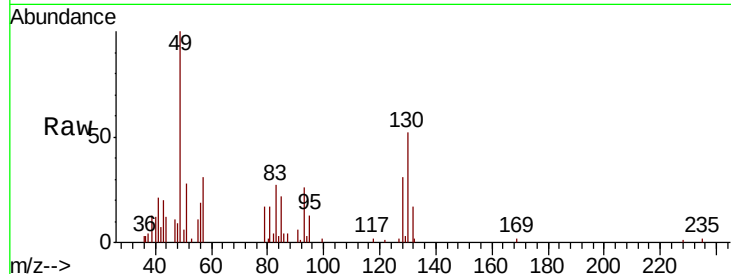
Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0





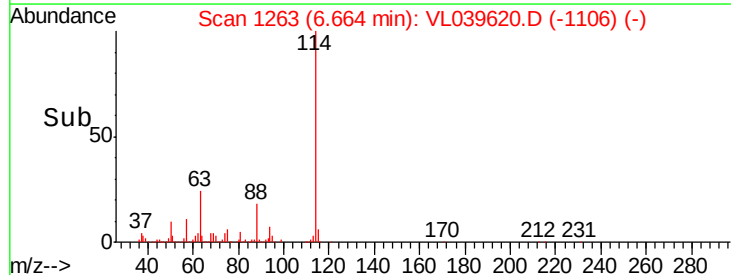
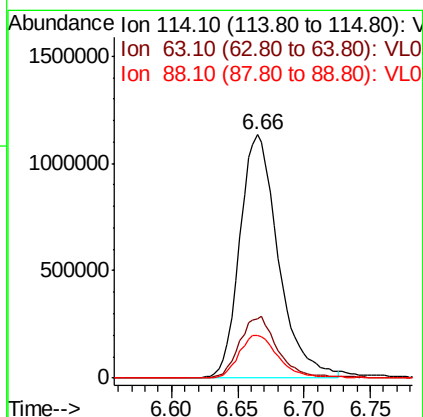
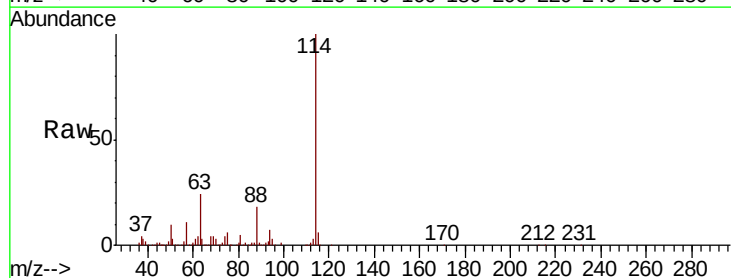
#29
Chloroform
Concen: 0.032 ppbv
RT: 5.29
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 7 Sep 2022 15:34

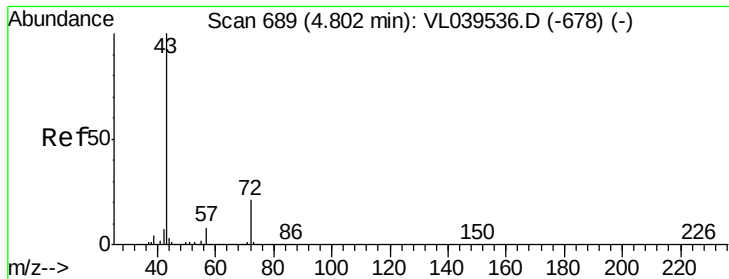
Tot Ion: 83 Resp: 4305
Ion Ratio Lower Upper
83 100
85 77.8 52.8 79.2



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.66 min Scan# 1263
Delta R.T.: 0.00 min
Lab File: VL039620.D
Acq: 7 Sep 2022 15:34

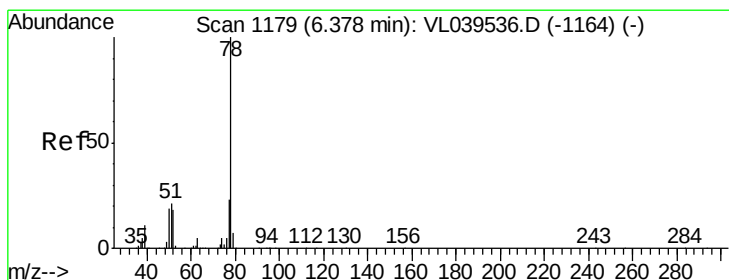
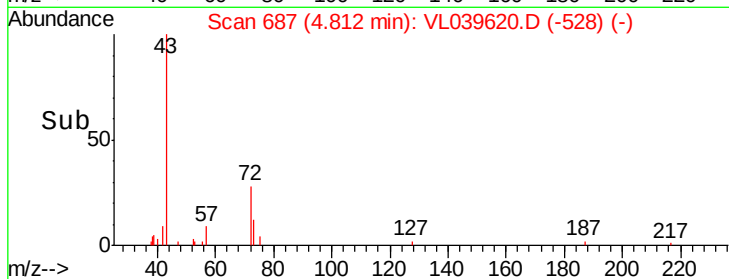
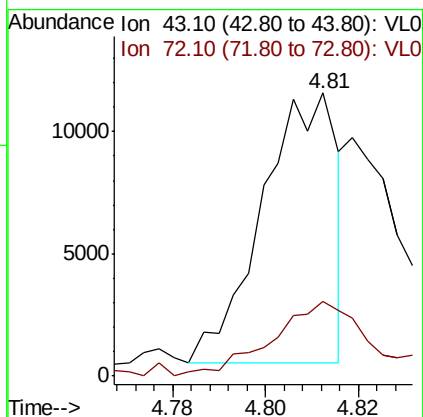
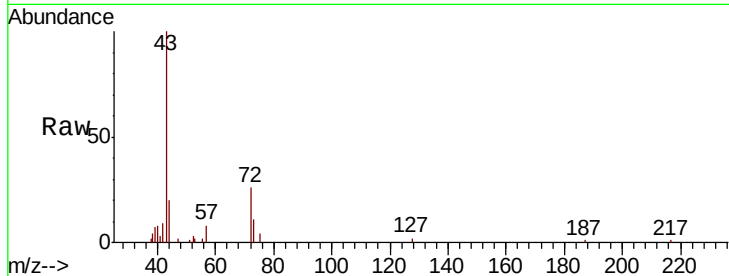
Tgt Ion: 114 Resp: 2304212
Ion Ratio Lower Upper
114 100
63 25.3 20.2 30.4
88 18.3 14.5 21.7





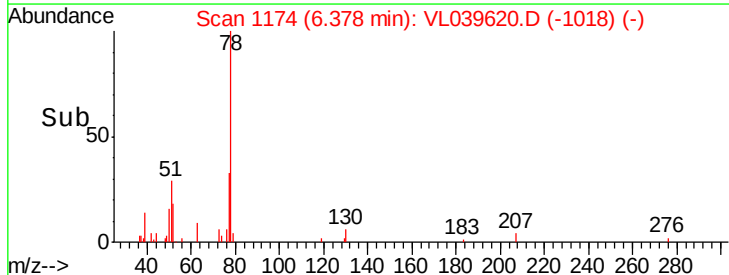
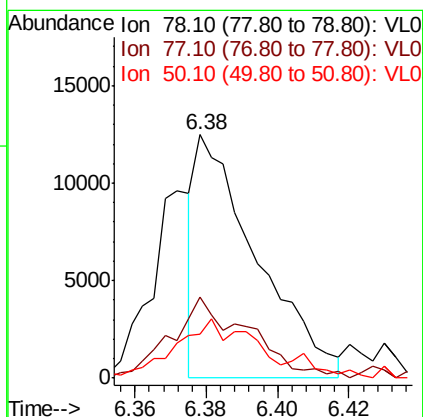
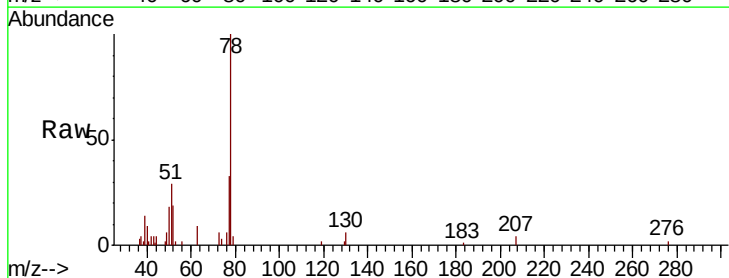
#34
 2-Butanone
 Concen: 0.108 ppbv
 RT: 4.81
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 7 Sep 2022 15:34

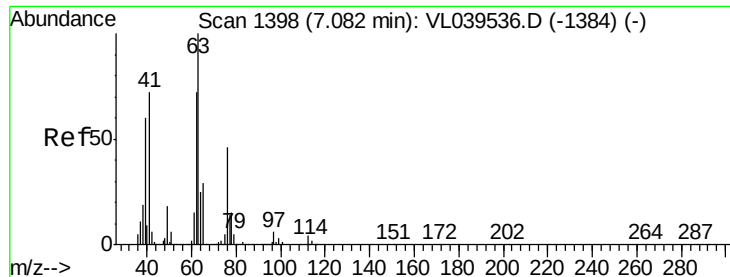
Tot Ion: 43 Resp: 12368
 Ion Ratio Lower Upper
 43 100
 72 43.2 17.9 26.9#



#36
 Benzene
 Concen: 0.084 ppbv
 RT: 6.38 min Scan# 1174
 Delta R.T. 0.00 min
 Lab File: VL039620.D
 Acq: 7 Sep 2022 15:34

Tgt Ion: 78 Resp: 14751
 Ion Ratio Lower Upper
 78 100
 77 33.5 20.3 30.5#
 50 17.6 15.5 23.3





#39

1,2-Dichloropropane

Concen: 8.512 ppbv

RT: 6.67 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId :

Acq: 7 Sep 2022 15:34

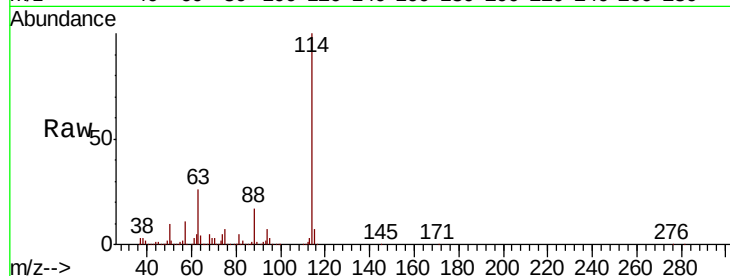
Tot Ion: 63 Resp: 562111

Ion Ratio Lower Upper

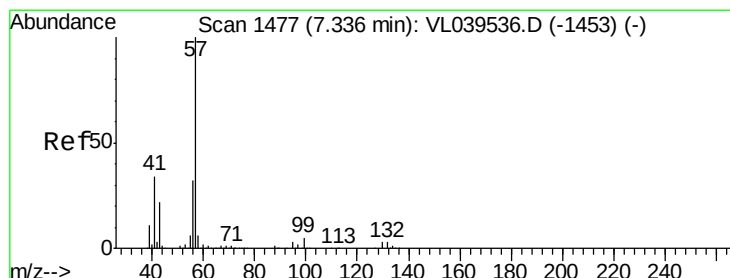
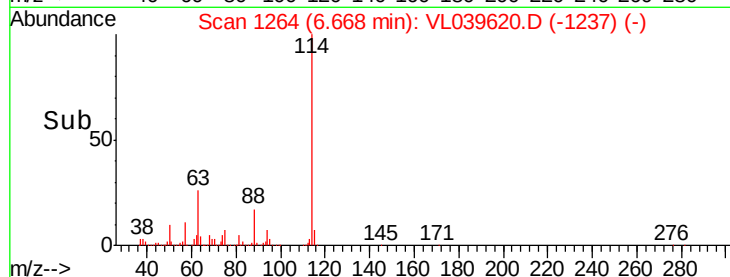
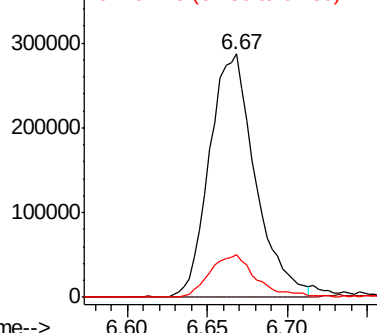
63 100

41 0.0 59.6 89.4#

62 17.3 51.4 77.0#



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: 0.031 ppbv

RT: 7.34 min Scan# 1474

Delta R.T. 0.01 min

Lab File: VL039620.D

Acq: 7 Sep 2022 15:34

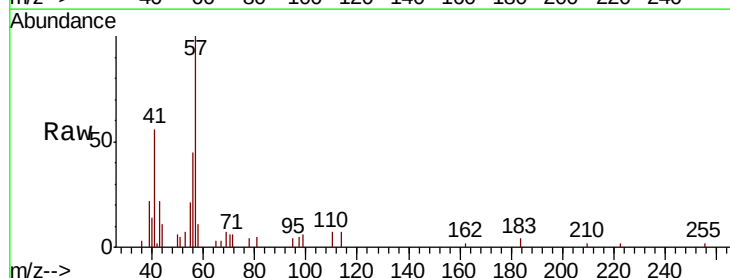
Tgt Ion: 57 Resp: 9103

Ion Ratio Lower Upper

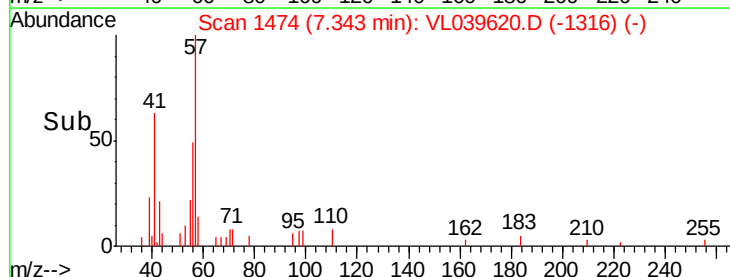
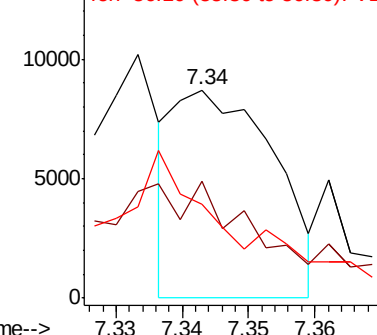
57 100

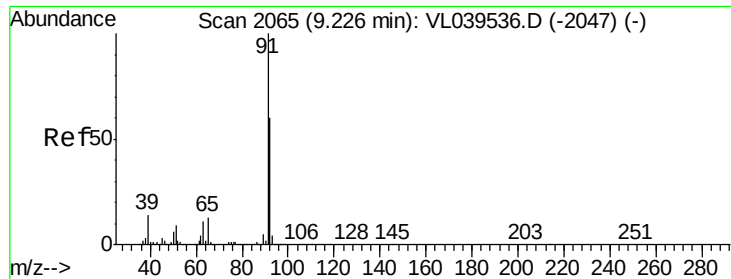
41 128.0 27.4 41.2#

56 0.0 24.5 36.7#



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: 0.291 ppbv

RT: 9.23 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: OA-1

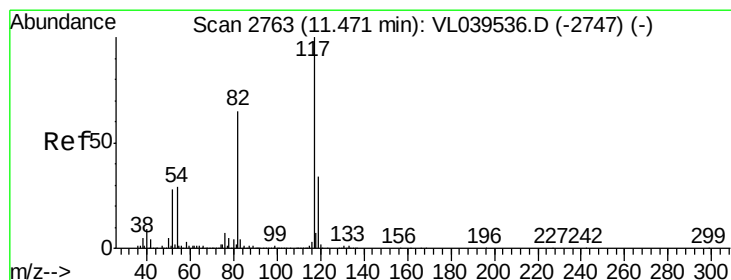
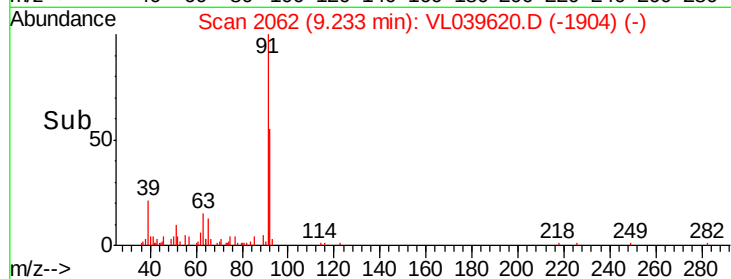
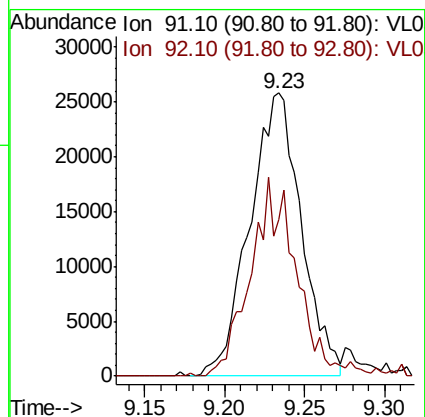
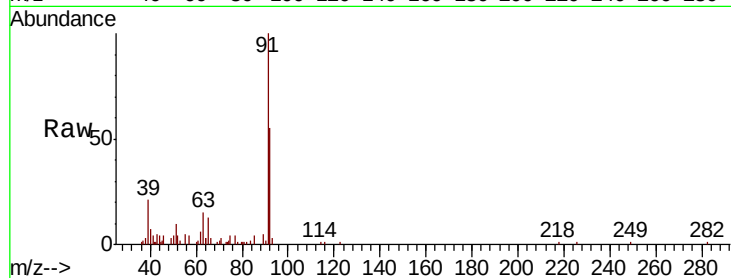
Acq: 7 Sep 2022 15:34

Tot Ion: 91 Resp: 57268

Ion Ratio Lower Upper

91 100

92 62.5 48.2 72.2



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.47 min Scan# 2759

Delta R.T. 0.00 min

Lab File: VL039620.D

Acq: 7 Sep 2022 15:34

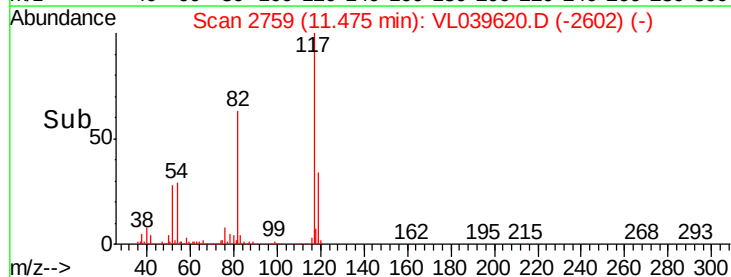
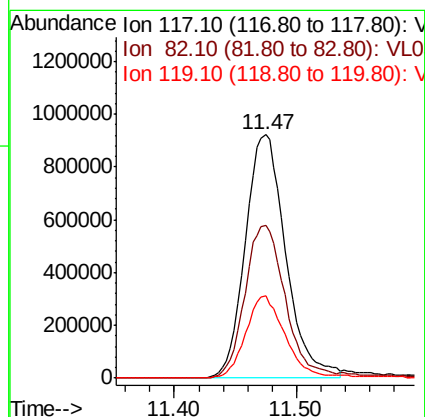
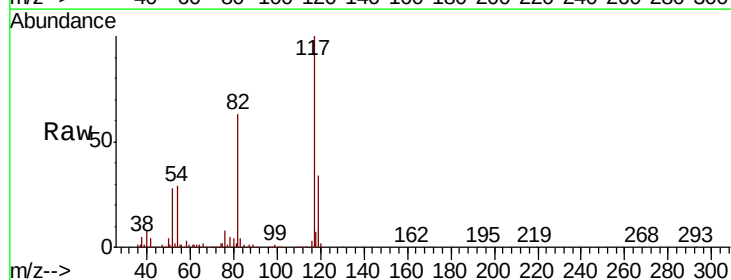
Tgt Ion: 117 Resp: 2114720

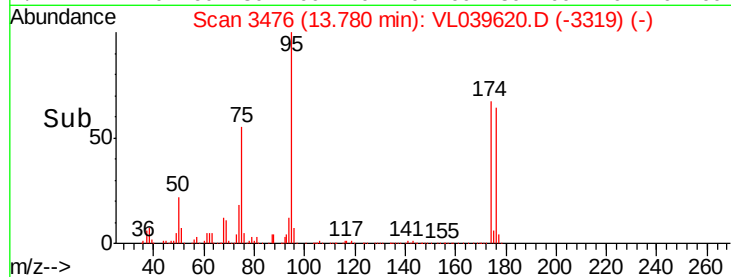
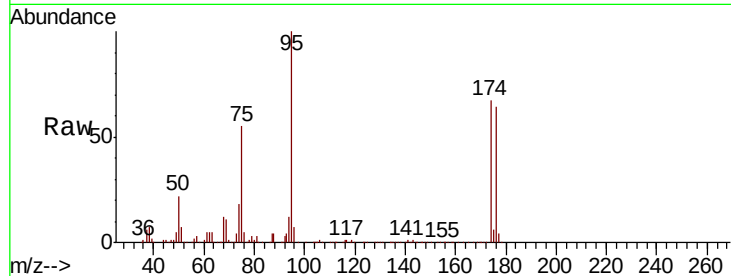
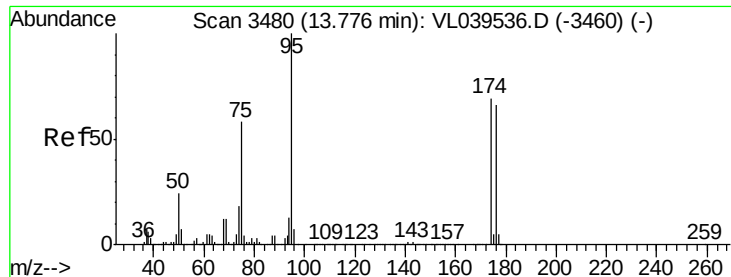
Ion Ratio Lower Upper

117 100

82 65.2 50.8 76.2

119 34.2 24.1 36.1





#68

1-Bromo-4-Fluorobenzene

Concen: 9.778 ppbv

RT: 13.78

Delta R.T: MSVOA_L

Lab File: ClientSampleId :

Acq: 7 Sep 2022 13:34

Tot Ion: 95 Resp: 1560033

Ion Ratio Lower Upper

95 100

174 74.7 55.9 83.9

175 5.5 4.2 6.4

