

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060322\
 Data File : VL039163.D
 Acq On : 3 Jun 2022 21:52
 Operator : SY/AP
 Sample : N3106-07DL 4X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA3DL

Quant Time: Jun 04 00:17:42 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL053122AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun 01 01:22:18 2022
 QLast Update : Wed Jun 01 01:22:18 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1058055	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2617073	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	2224114	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	1843480	10.03	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.30%

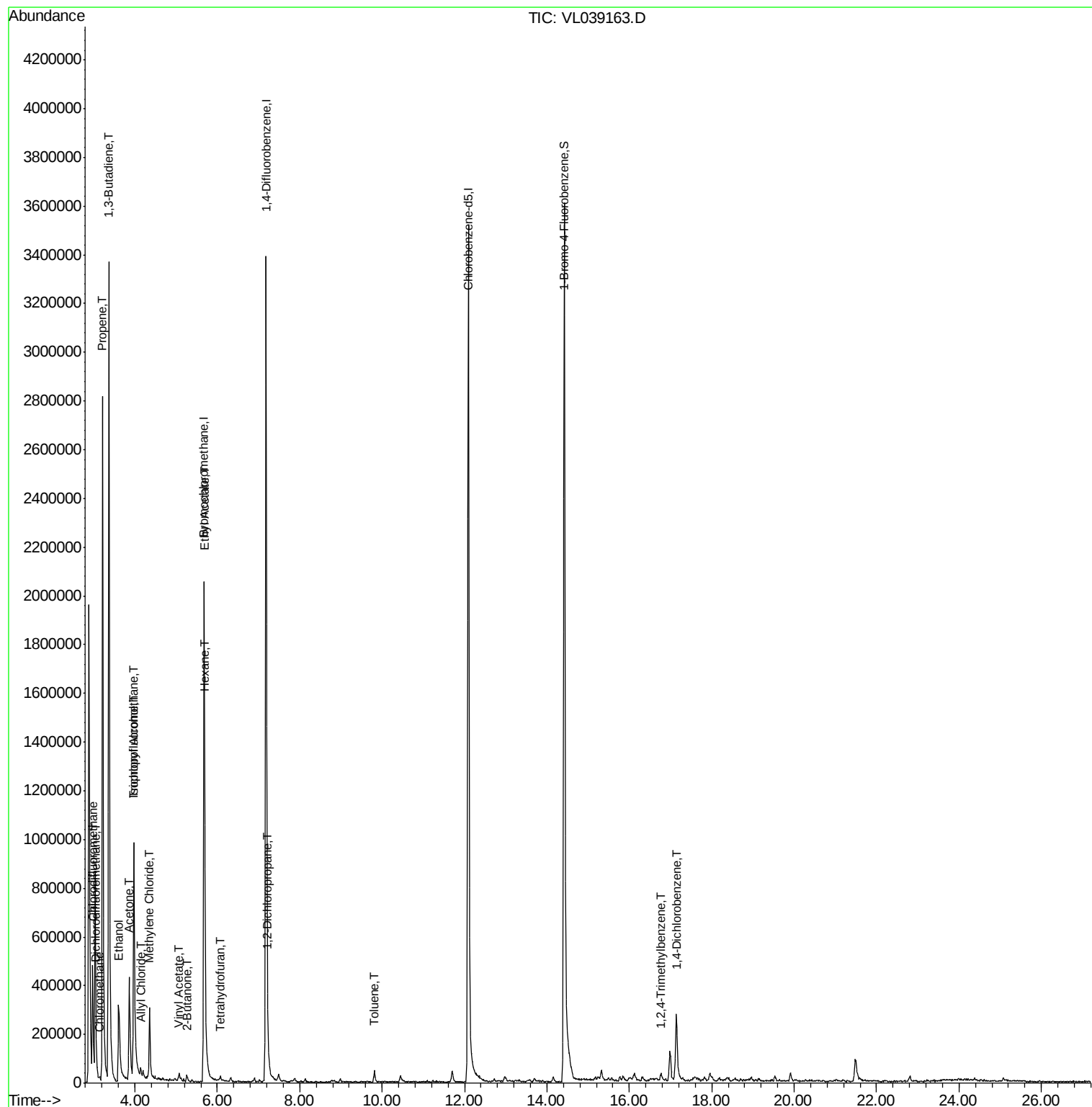
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	11400	0.061	ppbv	99
3) Chlorodifluoromethane	2.97	51	363795	2.702	ppbv #	58
4) Chloromethane	3.15	50	7907	0.114	ppbv #	75
9) Propene	3.21	41	1071804	18.258	ppbv	93
11) Trichlorofluoromethane	3.96	101	11401	0.068	ppbv #	80
13) Ethanol	3.61	45	492598	153.873	ppbv #	100
15) Acetone	3.86	43	550855	4.998	ppbv	98
16) 1,3-Butadiene	3.37	39	548658	9.260	ppbv #	10
19) Isopropyl Alcohol	3.97	45	1333412	25.794	ppbv	99
20) Methylene Chloride	4.36	84	117386	2.527	ppbv	95
21) Allyl Chloride	4.15	41	2956	0.040	ppbv #	1
23) Vinyl Acetate	5.08	43	2758	0.030	ppbv #	1
25) Ethyl Acetate	5.69	43	39637	0.160	ppbv #	90
26) Hexane	5.70	57	54131	0.496	ppbv #	40
34) 2-Butanone	5.25	43	15933	0.112	ppbv #	53
39) 1,2-Dichloropropane	7.23	63	10766	0.127	ppbv #	22
41) Tetrahydrofuran	6.06	42	2936	0.034	ppbv #	1
53) Toluene	9.81	91	13637	0.056	ppbv #	15
74) 1,2,4-Trimethylbenzene	16.77	105	11361	0.038	ppbv #	47
76) 1,4-Dichlorobenzene	17.14	146	116313	0.689	ppbv	81

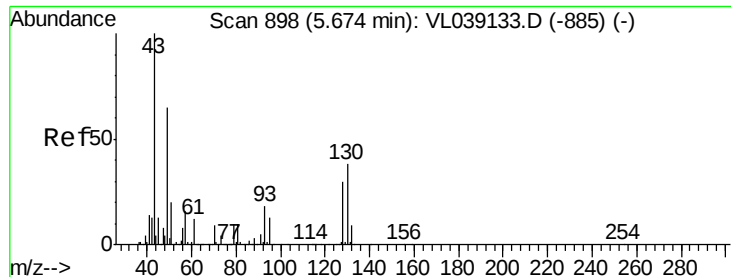
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: IA3DL

Acq: 3 Jun 2022 21:52

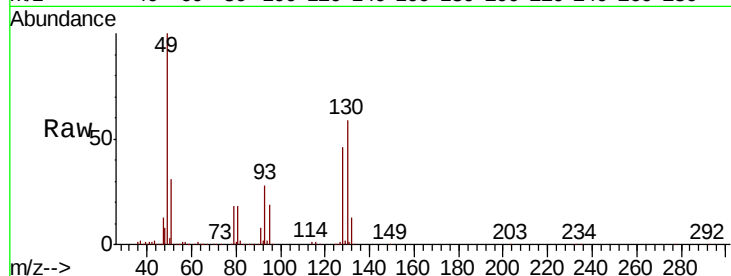
Tot Ion: 49 Resp: 1058055

Ion	Ratio	Lower	Upper
49	100		
128	50.9	24.7	74.1
130	64.6	31.4	94.0

49 100

128 50.9 24.7 74.1

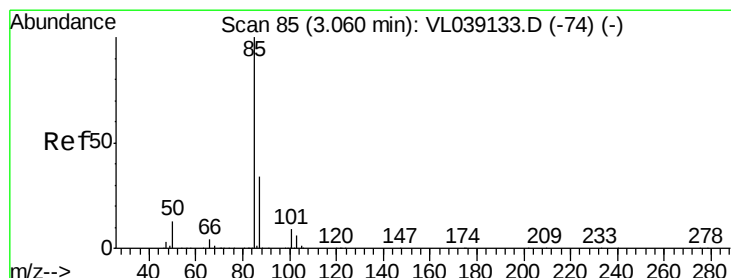
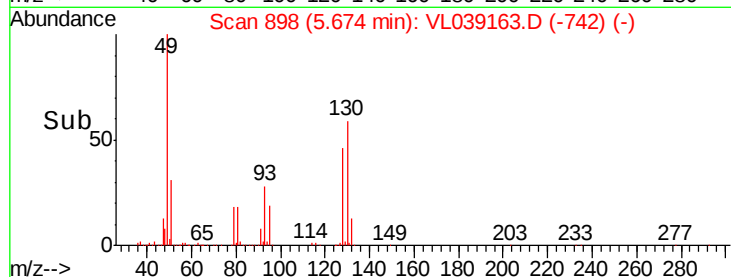
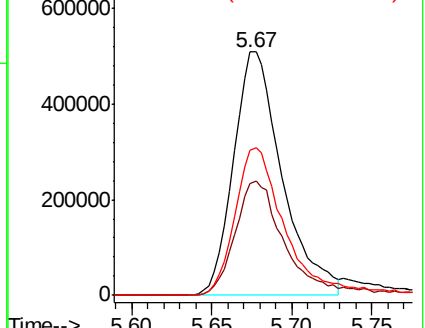
130 64.6 31.4 94.0



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



#2

Dichlorodifluoromethane

Concen: 0.061 ppbv

RT: 3.06 min Scan# 85

Delta R.T. -0.00 min

Lab File: VL039163.D

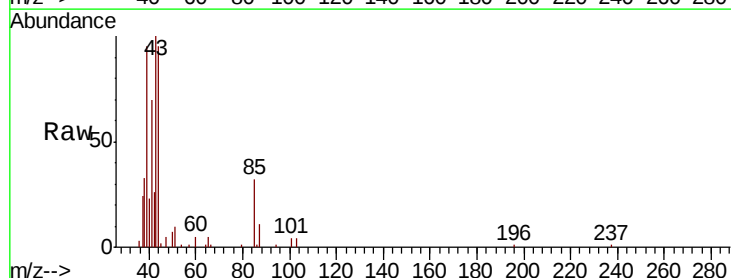
Acq: 3 Jun 2022 21:52

Tgt Ion: 85 Resp: 11400

Ion	Ratio	Lower	Upper
85	100		
87	33.1	26.9	40.3

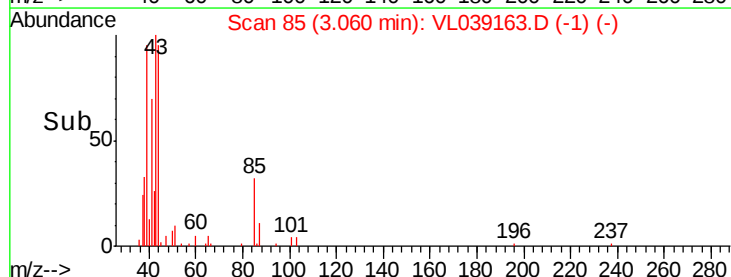
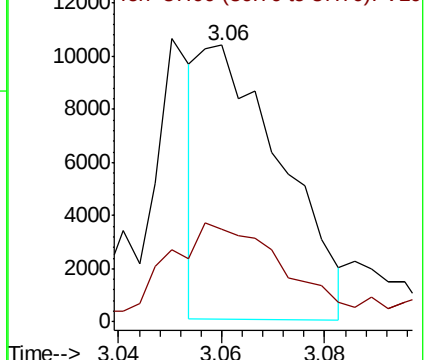
85 100

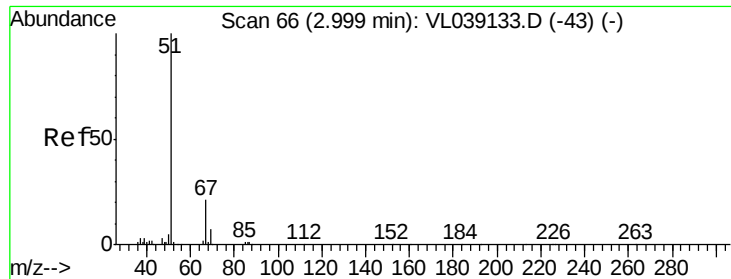
87 33.1 26.9 40.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

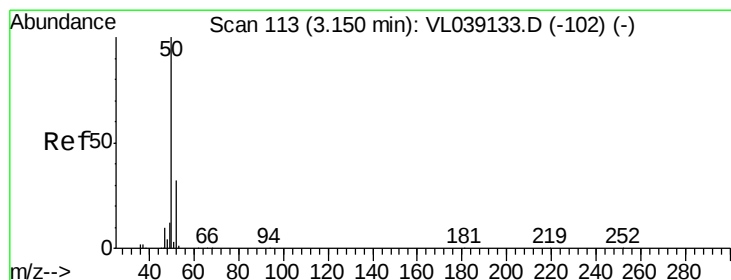
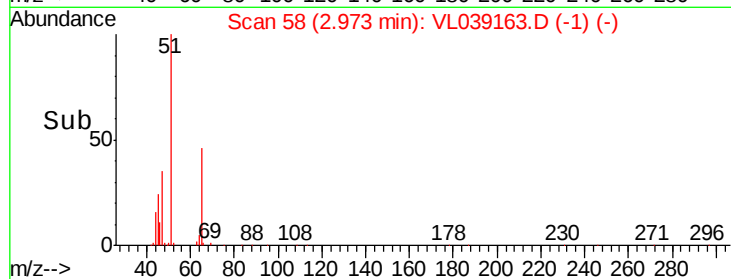
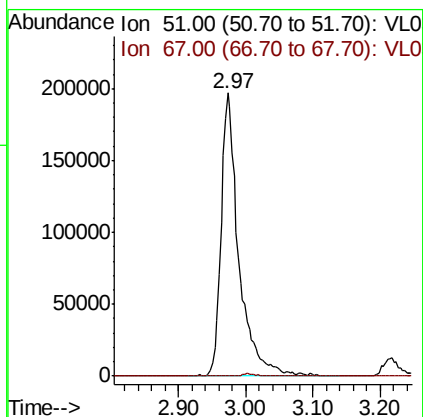
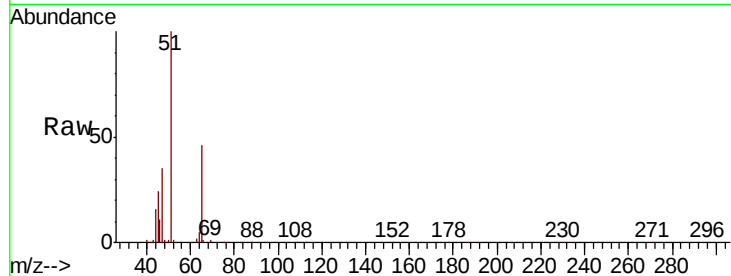
Ion 87.00 (86.70 to 87.70): VL0





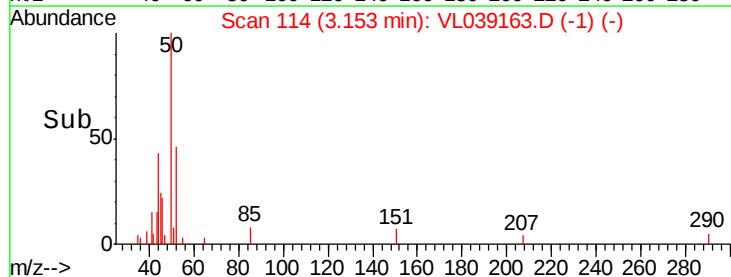
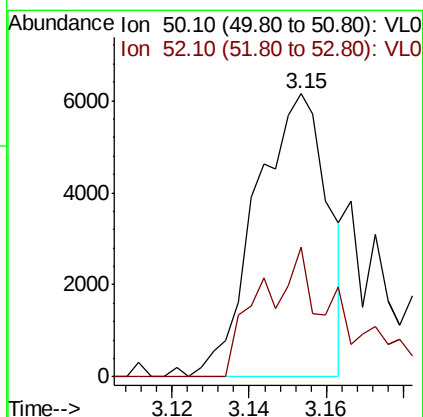
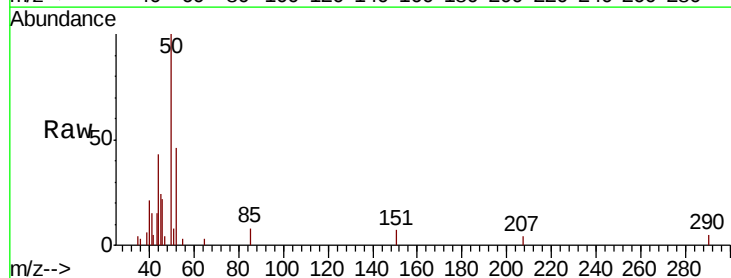
#3
 Chlorodifluoromethane
 Concen: 2.702 ppbv
 RT: 2.97
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 3 Jun 2022 21:52

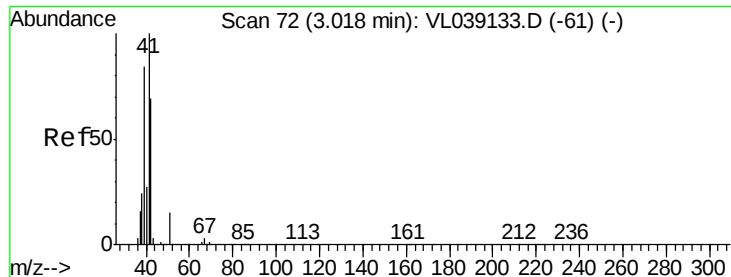
Tot Ion: 51 Resp: 363795
 Ion Ratio Lower Upper
 51 100
 67 0.7 16.2 24.4#



#4
 Chloromethane
 Concen: 0.114 ppbv
 RT: 3.15 min Scan# 114
 Delta R.T. 0.00 min
 Lab File: VL039163.D
 Acq: 3 Jun 2022 21:52

Tgt Ion: 50 Resp: 7907
 Ion Ratio Lower Upper
 50 100
 52 46.6 25.9 38.9#





#9

Propene

Concen: 18.258 ppbv

RT: 3.21 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

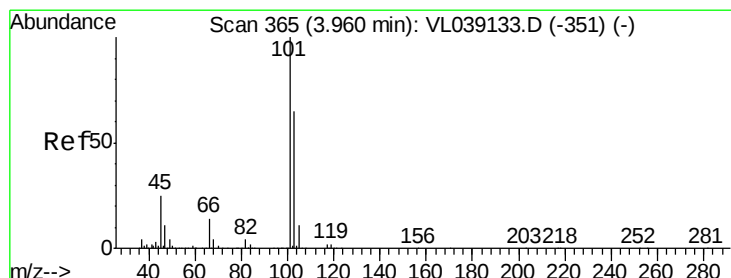
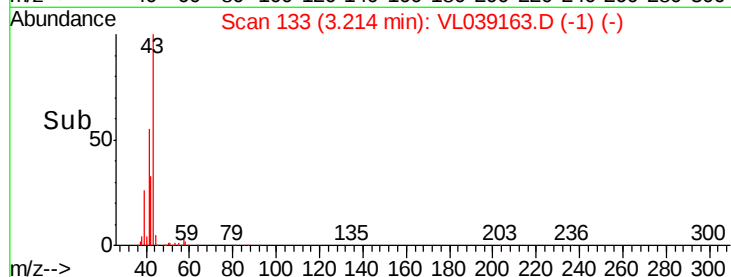
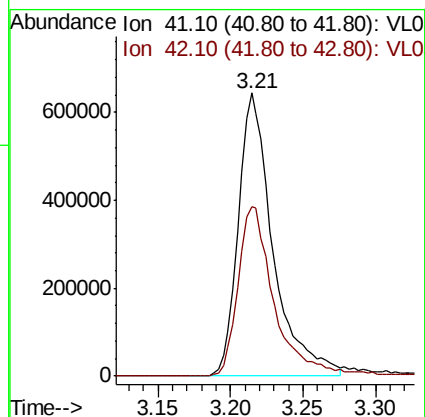
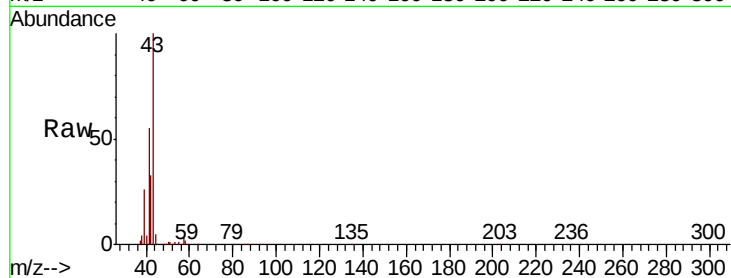
Acq: 3 Jun 2022 21:52

Tot Ion: 41 Resp: 1071804

Ion Ratio Lower Upper

41 100

42 63.4 55.4 83.2



#11

Trichlorofluoromethane

Concen: 0.068 ppbv

RT: 3.96 min Scan# 365

Delta R.T. -0.00 min

Lab File: VL039163.D

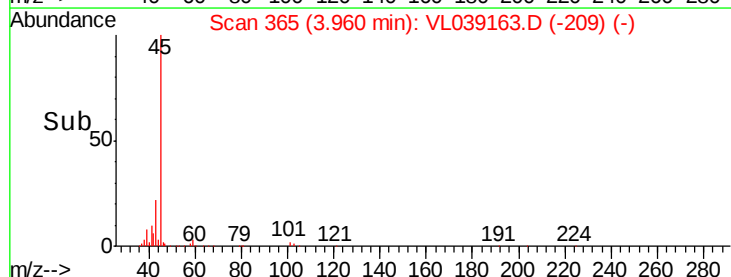
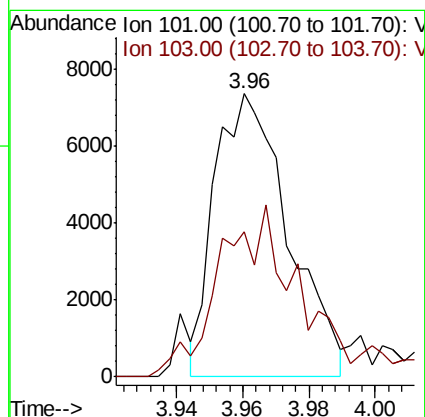
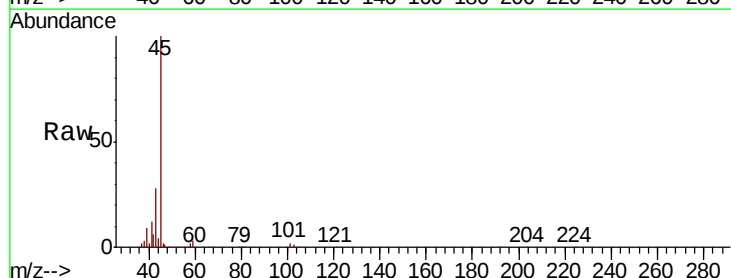
Acq: 3 Jun 2022 21:52

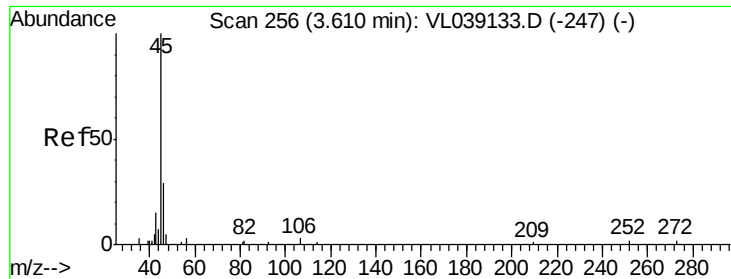
Tgt Ion: 101 Resp: 11401

Ion Ratio Lower Upper

101 100

103 48.9 51.7 77.5#





#13

Ethanol

Concen: 153.873 ppbv

RT: 3.61 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

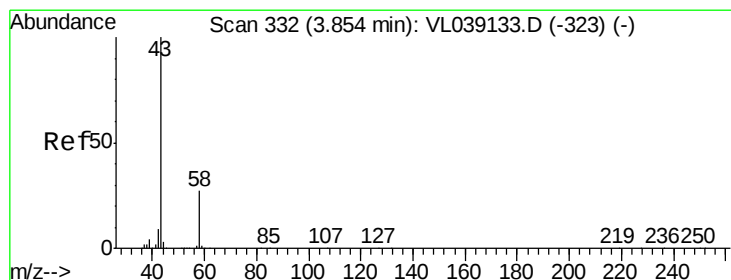
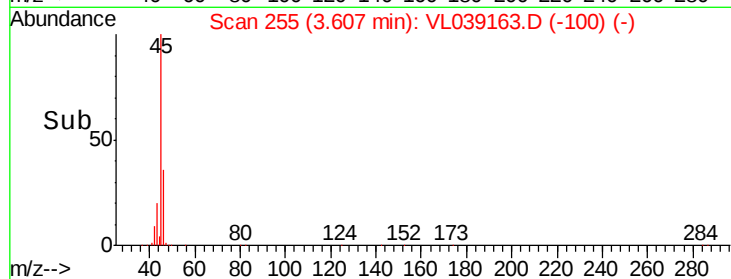
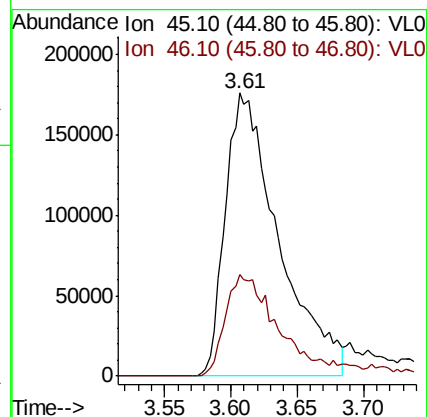
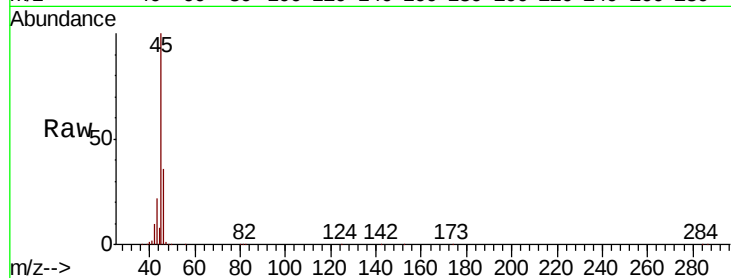
Acq: 3 Jun 2022 21:52

Tot Ion: 45 Resp: 492598

Ion Ratio Lower Upper

45 100

46 39.8 0.0 0.0#



#15

Acetone

Concen: 4.998 ppbv

RT: 3.86 min Scan# 333

Delta R.T. 0.00 min

Lab File: VL039163.D

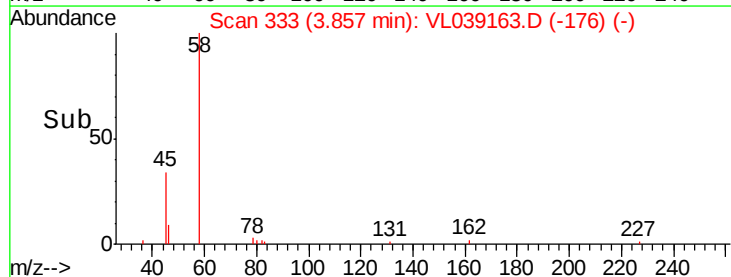
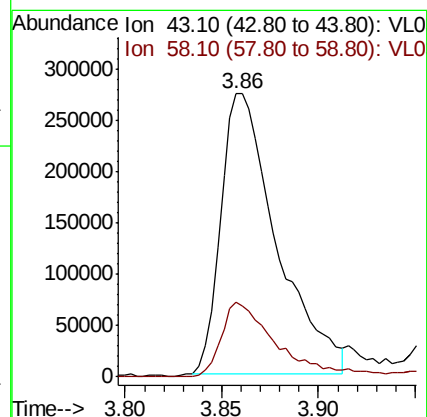
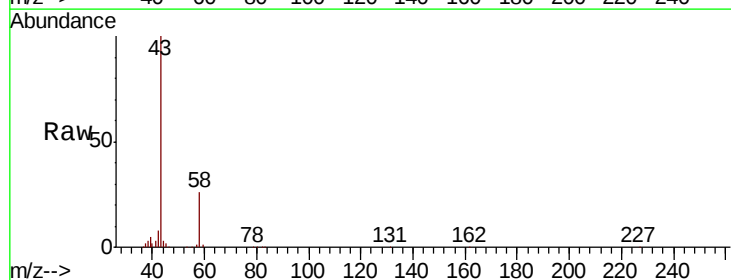
Acq: 3 Jun 2022 21:52

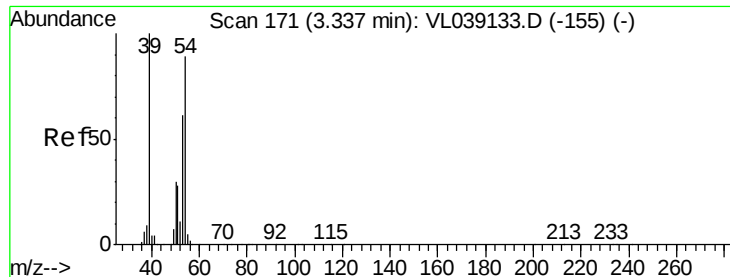
Tgt Ion: 43 Resp: 550855

Ion Ratio Lower Upper

43 100

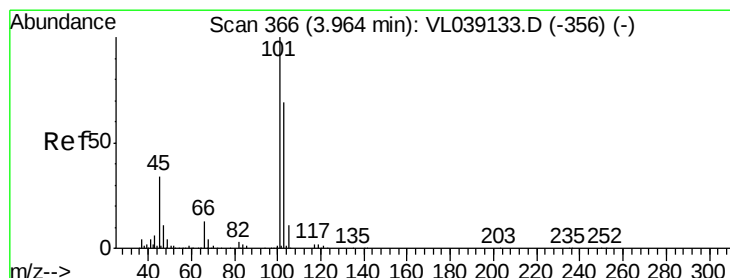
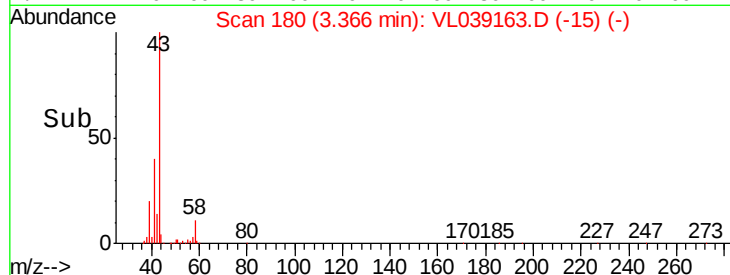
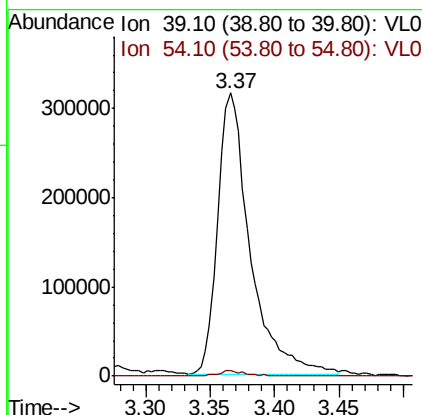
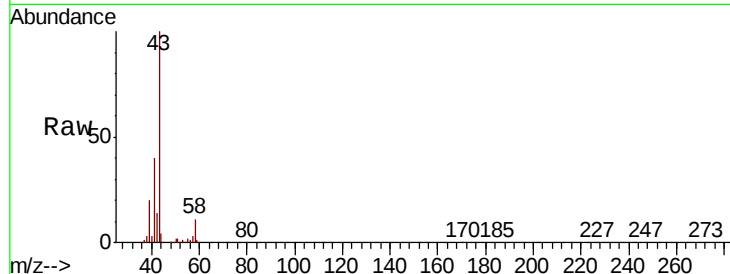
58 26.9 22.5 33.7





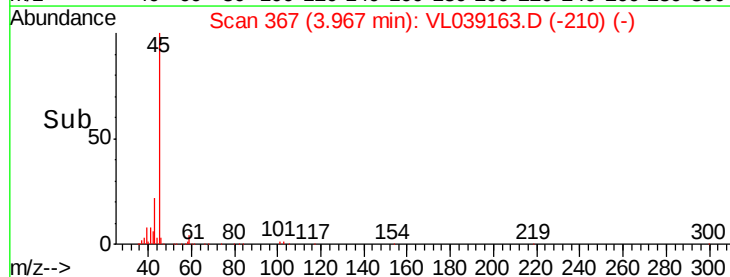
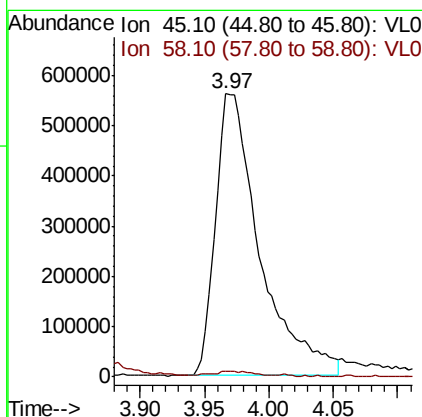
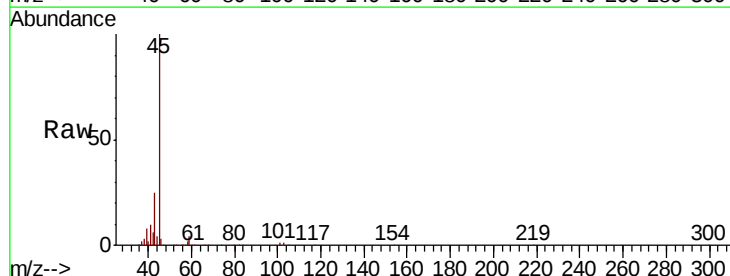
#16
 1,3-Butadiene
 Concen: 9.260 ppbv
 RT: 3.37
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 3 Jun 2022 21:52

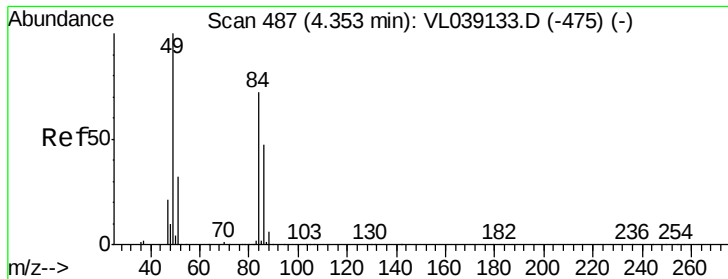
Tot Ion: 39 Resp: 548658
 Ion Ratio Lower Upper
 39 100
 54 2.0 65.8 98.6#



#19
 Isopropyl Alcohol
 Concen: 25.794 ppbv
 RT: 3.97 min Scan# 367
 Delta R.T. 0.00 min
 Lab File: VL039163.D
 Acq: 3 Jun 2022 21:52

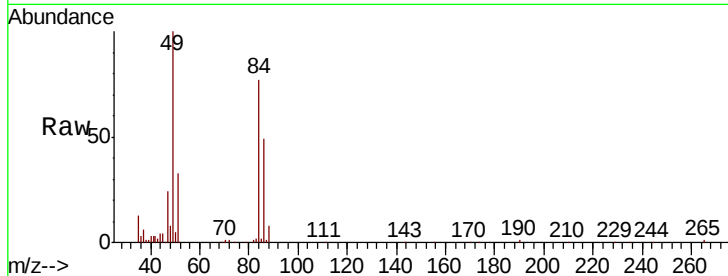
Tgt Ion: 45 Resp: 1333412
 Ion Ratio Lower Upper
 45 100
 58 2.6 1.8 2.8





#20
Methylene Chloride
Concen: 2.527 ppbv
RT: 4.36
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 3 Jun 2022 21:52

Tot Ion:	84	Resp:	117386
Ion	Ratio	Lower	Upper
84	100		
49	130.0	111.1	166.7
51	43.3	35.3	52.9
86	62.7	51.9	77.9



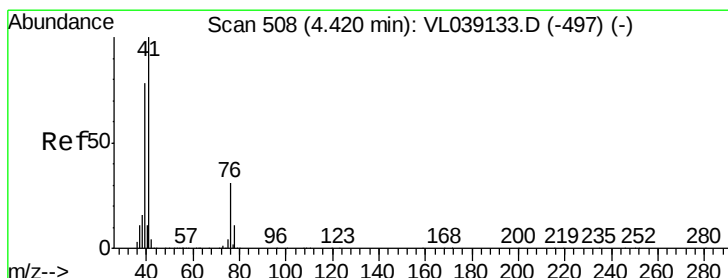
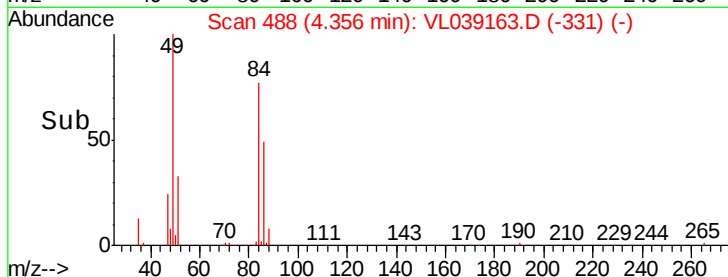
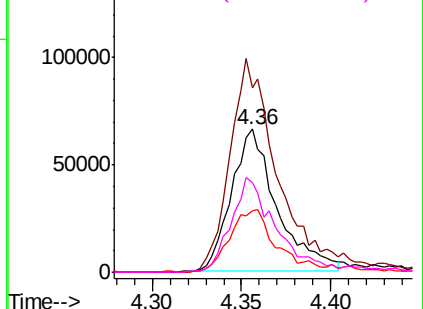
Abundance

Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

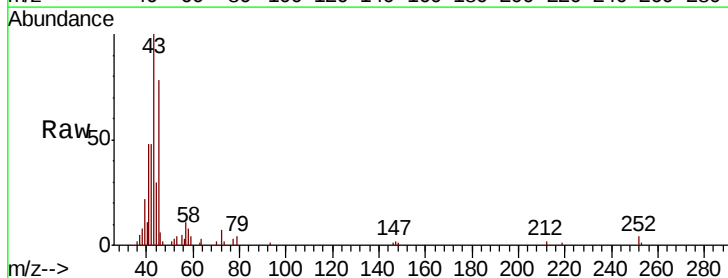
Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#21
Allyl Chloride
Concen: 0.040 ppbv
RT: 4.15 min Scan# 423
Delta R.T. -0.27 min
Lab File: VL039163.D
Acq: 3 Jun 2022 21:52

Tgt Ion:	41	Resp:	2956
Ion	Ratio	Lower	Upper
41	100		
76	1.5	24.2	36.2#
39	295.4	62.2	93.2#

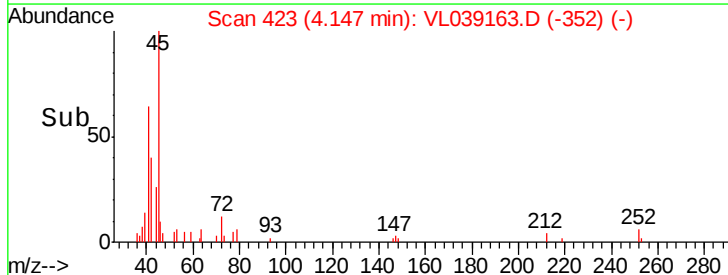
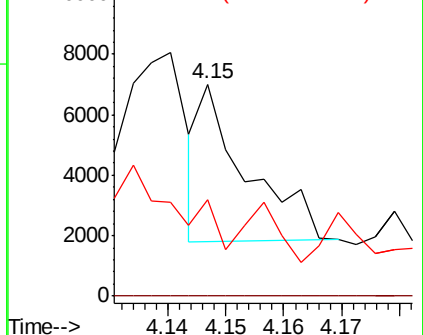


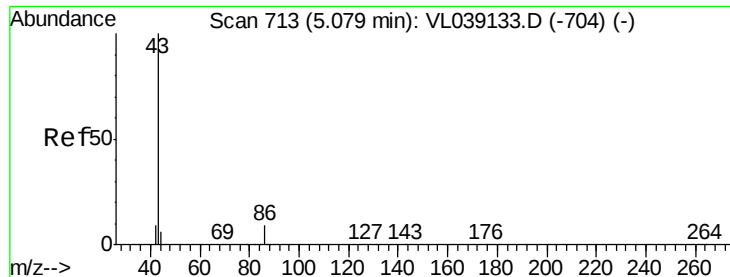
Abundance

Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

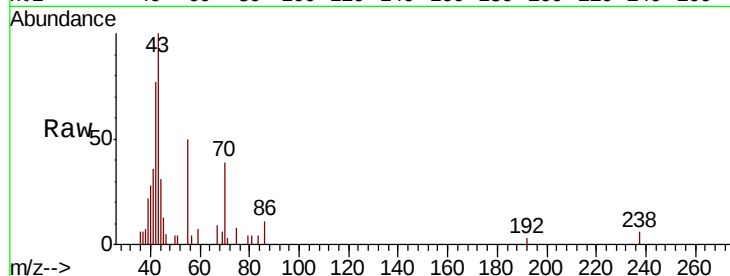
Ion 39.10 (38.80 to 39.80): VL0



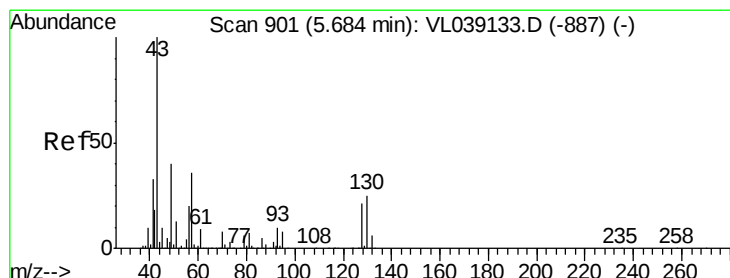
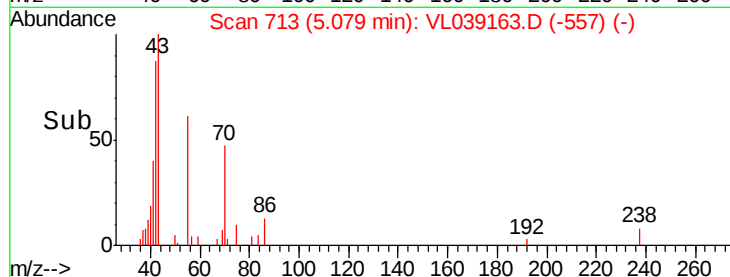
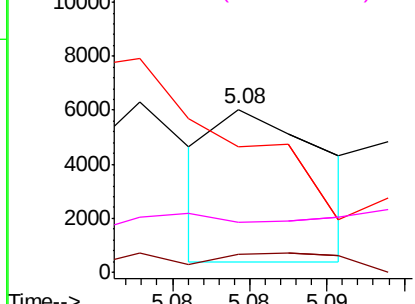


#23
 Vinyl Acetate
 Concen: 0.030 ppbv
 RT: 5.08
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 3 Jun 2022 21:52

Tot Ion:	43	Resp:	2758
Ion	Ratio	Lower	Upper
43	100		
86	22.3	6.0	9.0#
42	157.3	8.2	12.4#
44	0.0	4.3	6.5#

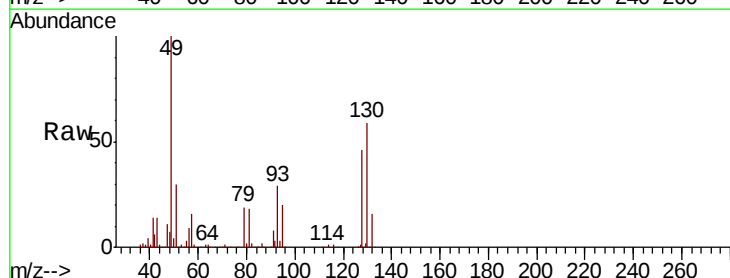


Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 86.10 (85.80 to 86.80): VL0
 Ion 42.10 (41.80 to 42.80): VL0
 Ion 44.10 (43.80 to 44.80): VL0

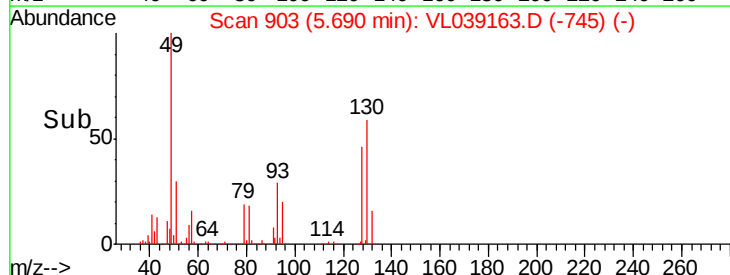
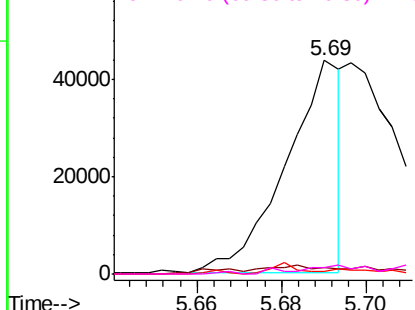


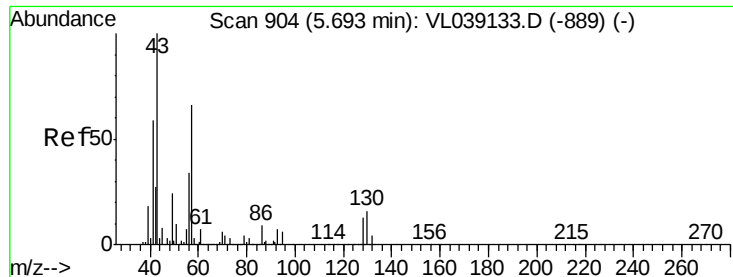
#25
 Ethyl Acetate
 Concen: 0.160 ppbv
 RT: 5.69 min Scan# 903
 Delta R.T. 0.01 min
 Lab File: VL039163.D
 Acq: 3 Jun 2022 21:52

Tgt Ion:	43	Resp:	39637
Ion	Ratio	Lower	Upper
43	100		
45	10.9	8.2	12.2
61	6.5	8.4	12.6#
70	0.0	5.6	8.4#



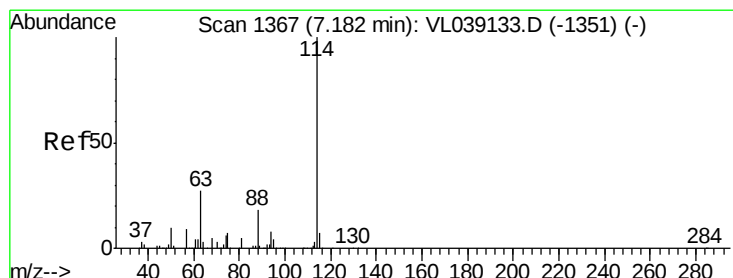
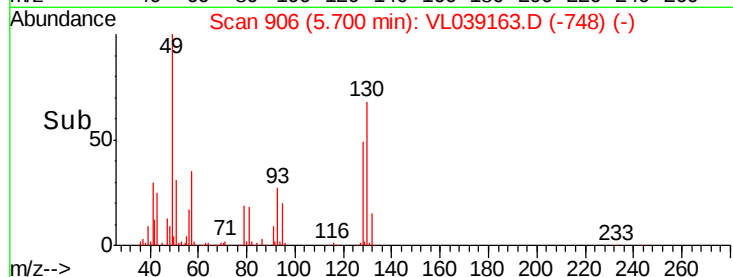
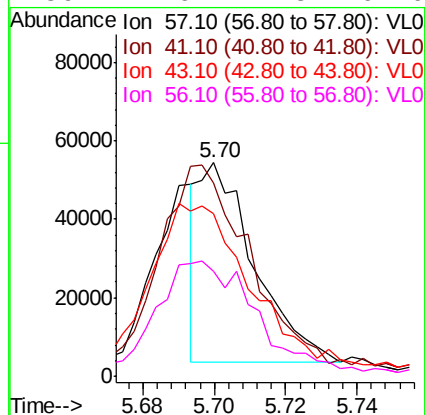
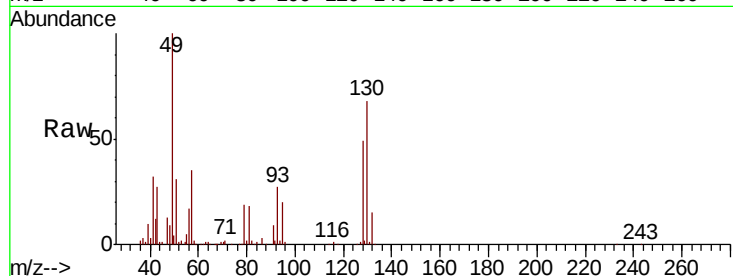
Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 45.10 (44.80 to 45.80): VL0
 Ion 61.10 (60.80 to 61.80): VL0
 Ion 70.10 (69.80 to 70.80): VL0





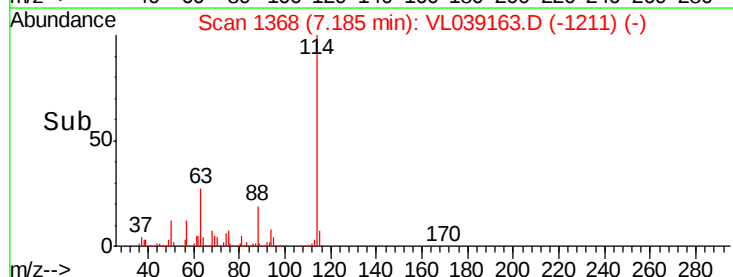
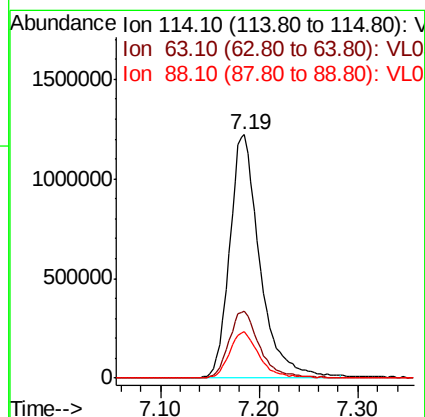
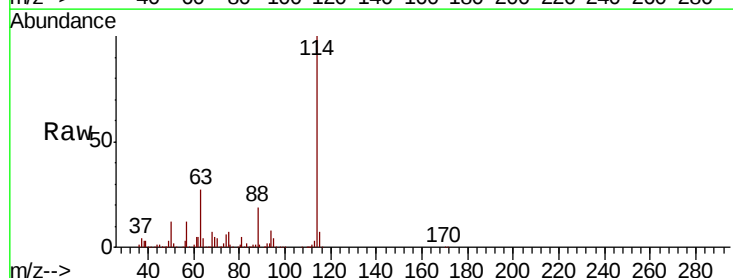
#26
Hexane
Concen: 0.496 ppbv
RT: 5.70
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 3 Jun 2022 21:52

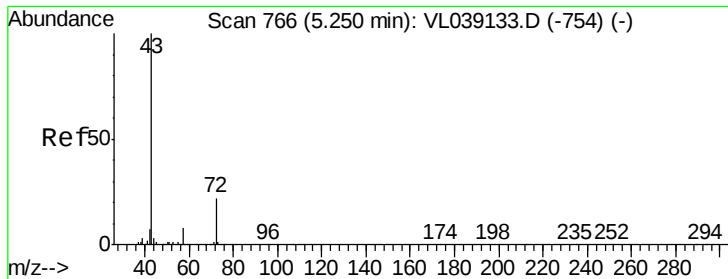
Tot Ion:	57	Resp:	54131
Ion	Ratio	Lower	Upper
57	100		
41	196.3	72.4	108.6#
43	179.0	187.0	280.6#
56	114.6	41.8	62.6#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1368
Delta R.T. 0.00 min
Lab File: VL039163.D
Acq: 3 Jun 2022 21:52

Tgt Ion:	114	Resp:	2617073
Ion	Ratio	Lower	Upper
114	100		
63	28.3	21.7	32.5
88	19.2	14.8	22.2





#34

2-Butanone

Concen: 0.112 ppbv

RT: 5.25 Instrument: MSVOA_1

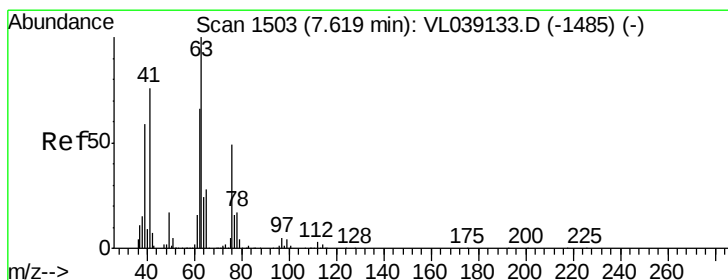
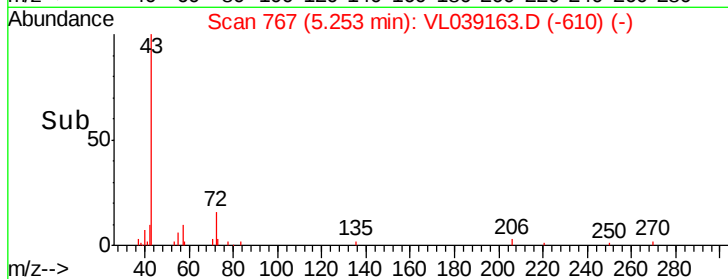
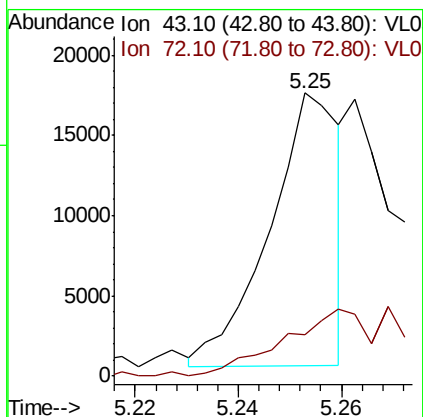
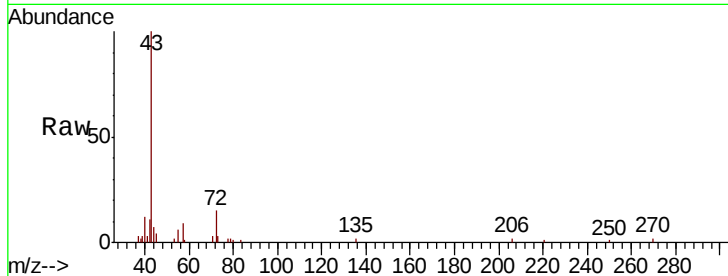
Delta R.T. ClientSampleId:

Lab File: IA3DL

Acq: 3 Jun 2022 21:52

Tot Ion: 43 Resp: 15933

Ion	Ratio	Lower	Upper
43	100		
72	0.0	18.2	27.2#



#39

1,2-Dichloropropane

Concen: 0.127 ppbv

RT: 7.23 min Scan# 1382

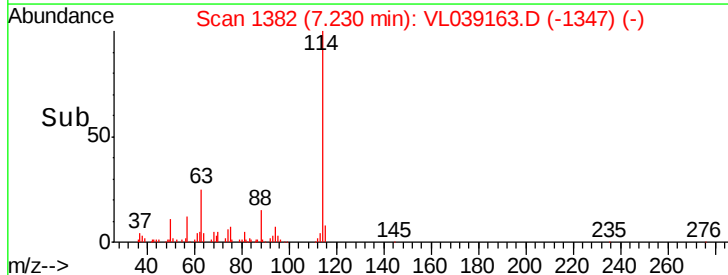
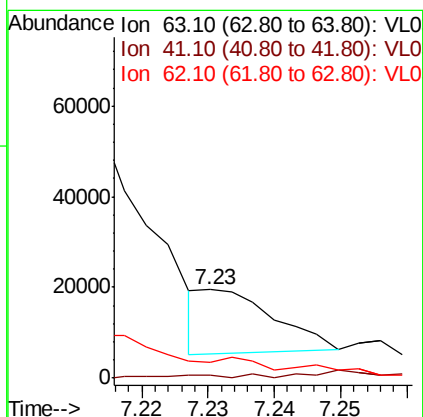
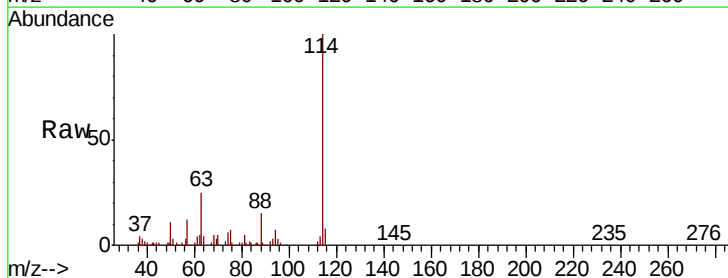
Delta R.T. -0.39 min

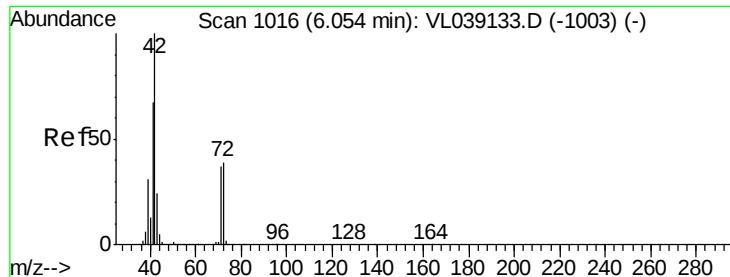
Lab File: VL039163.D

Acq: 3 Jun 2022 21:52

Tgt Ion: 63 Resp: 10766

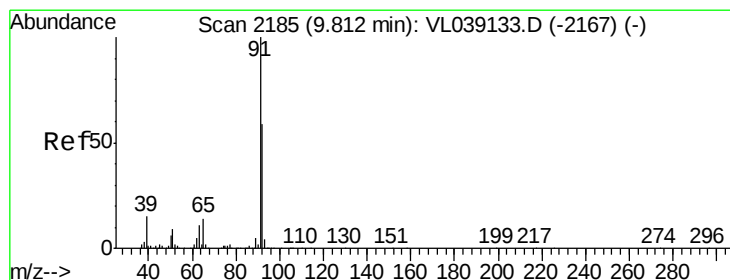
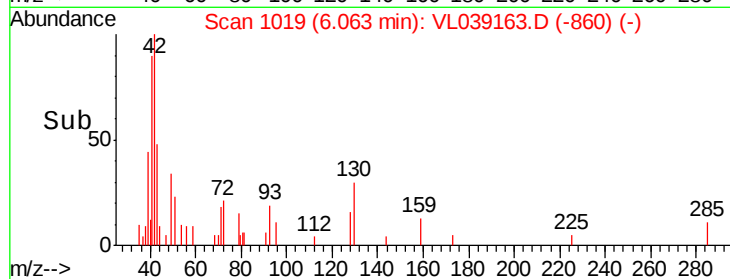
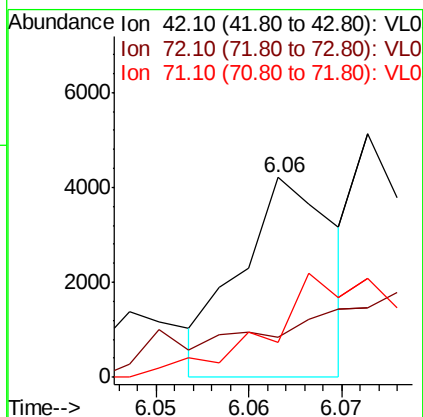
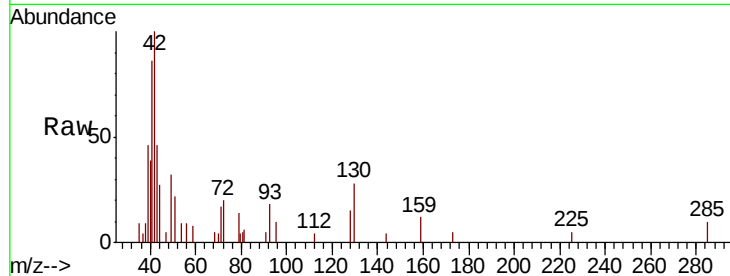
Ion	Ratio	Lower	Upper
63	100		
41	0.0	60.8	91.2#
62	13.8	52.9	79.3#





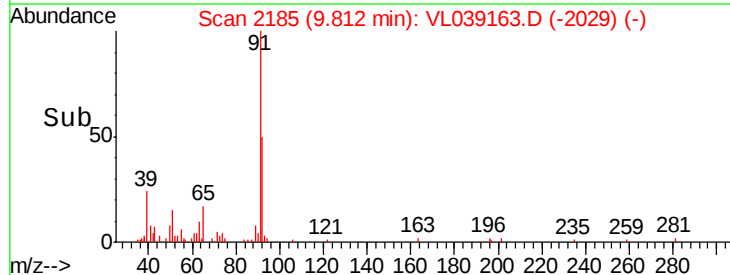
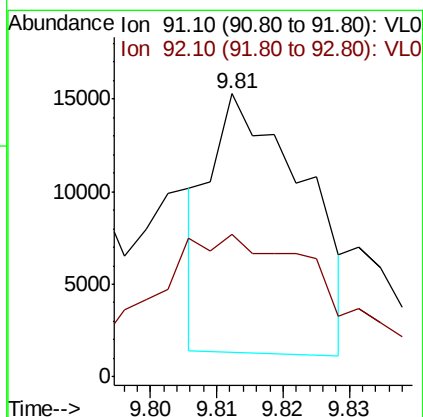
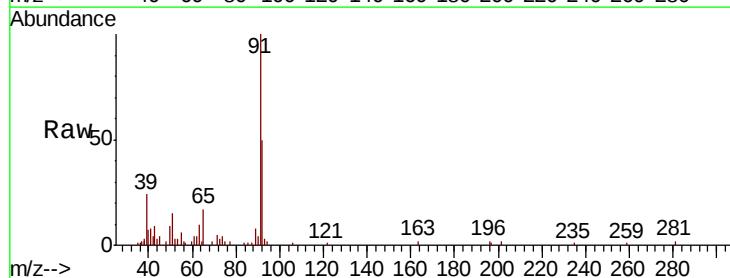
#41
Tetrahydrofuran
Concen: 0.034 ppbv
RT: 6.06
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 3 Jun 2022 21:52

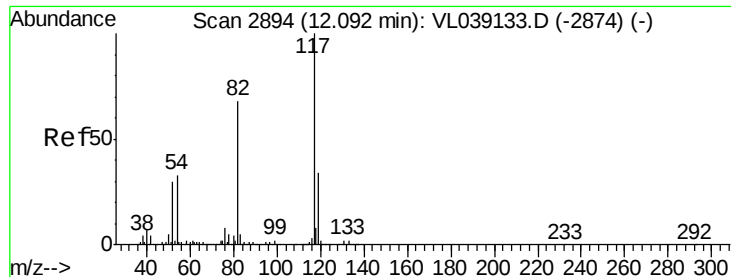
Tot Ion: 42 Resp: 2936
Ion Ratio Lower Upper
42 100
72 0.0 32.0 48.0#
71 123.5 31.1 46.7#



#53
Toluene
Concen: 0.056 ppbv
RT: 9.81 min Scan# 2185
Delta R.T.: 0.00 min
Lab File: VL039163.D
Acq: 3 Jun 2022 21:52

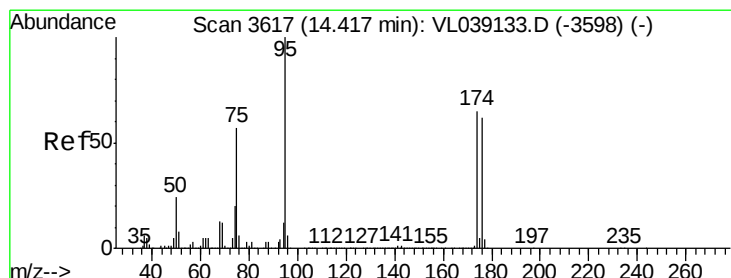
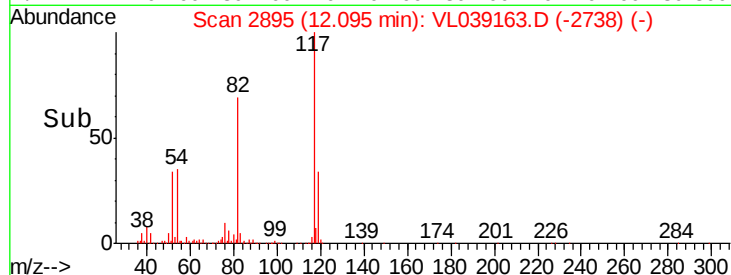
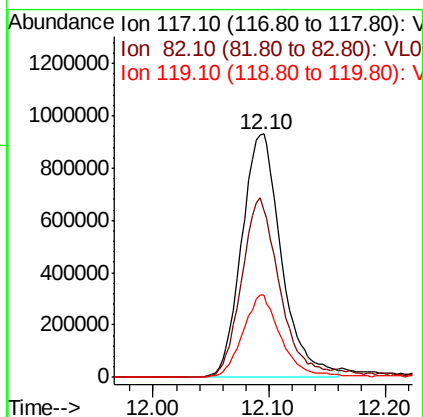
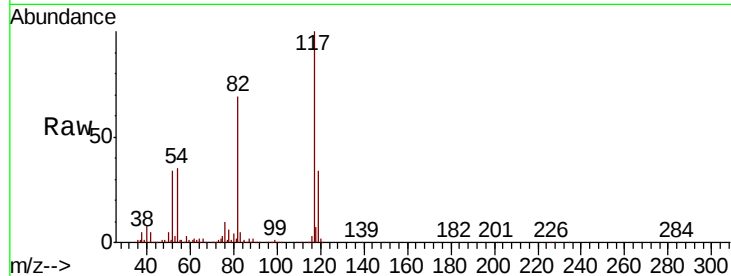
Tgt Ion: 91 Resp: 13637
Ion Ratio Lower Upper
91 100
92 124.5 48.1 72.1#





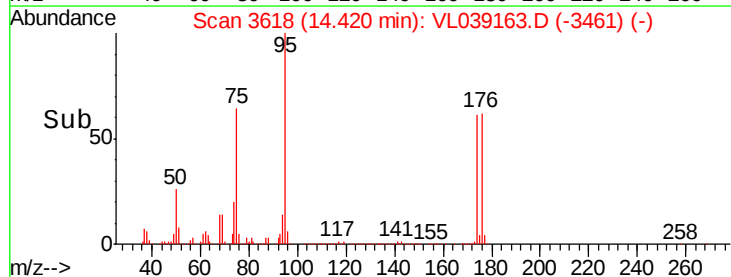
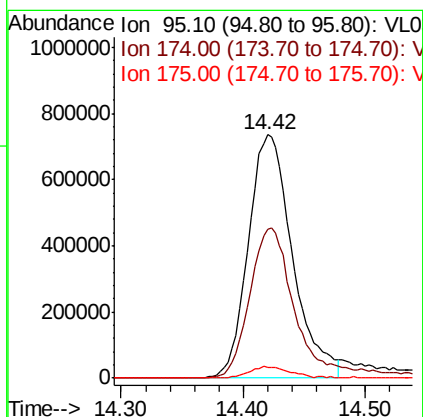
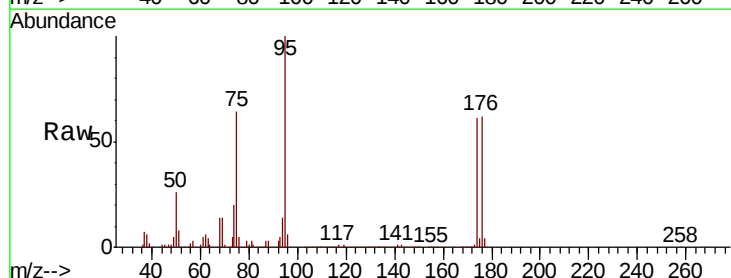
#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.10 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 3 Jun 2022 21:52

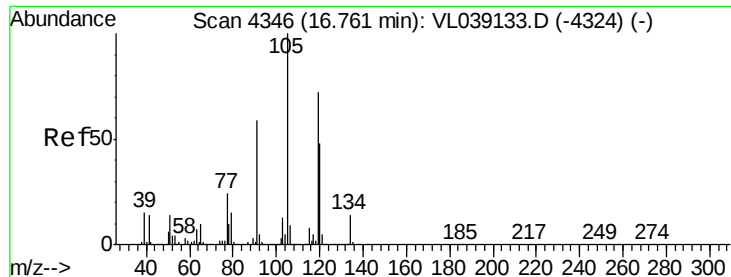
Tot Ion: 117 Resp: 2224114
 Ion Ratio Lower Upper
 117 100
 82 74.0 55.1 82.7
 119 33.7 24.7 37.1



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.026 ppbv
 RT: 14.42 min Scan# 3618
 Delta R.T.: 0.00 min
 Lab File: VL039163.D
 Acq: 3 Jun 2022 21:52

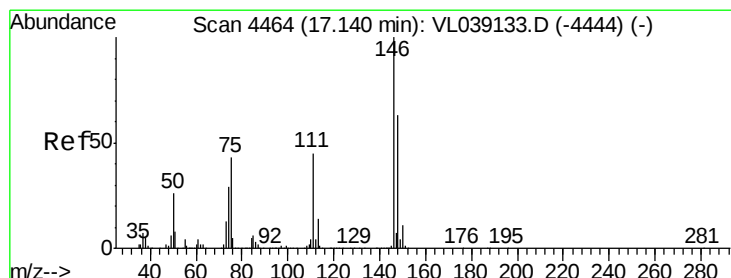
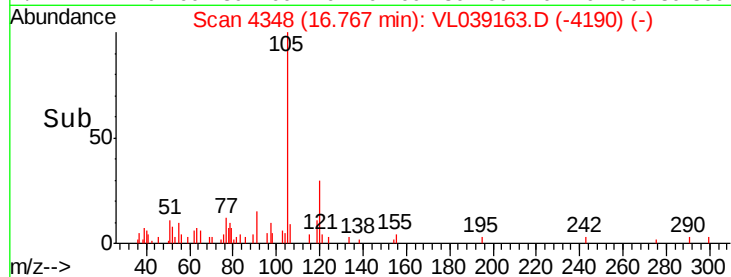
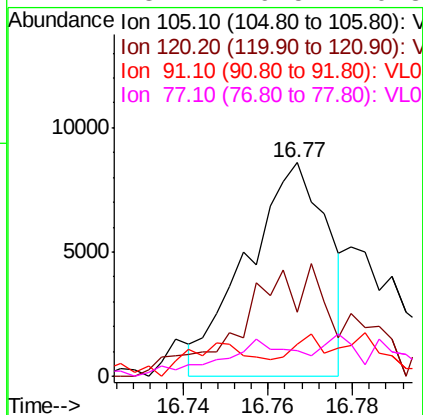
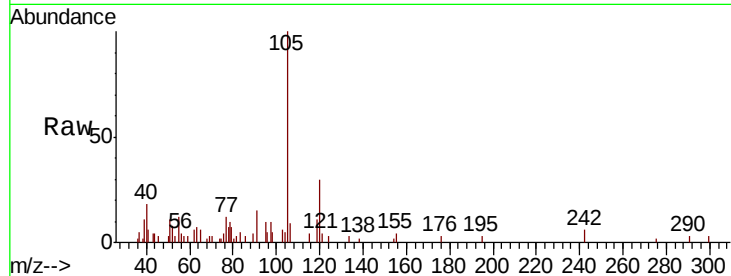
Tgt Ion: 95 Resp: 1843480
 Ion Ratio Lower Upper
 95 100
 174 67.3 53.8 80.8
 175 4.7 4.1 6.1





#74
 1,2,4-Trimethylbenzene
 Concen: 0.038 ppbv
 RT: 16.77 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 3 Jun 2022 21:52

Tot Ion:	105	Resp:	11361
Ion Ratio	Lower	Upper	
105	100		
120	23.4	38.1	57.1#
91	2.5	47.4	71.0#
77	8.2	19.5	29.3#



#76
 1,4-Dichlorobenzene
 Concen: 0.689 ppbv
 RT: 17.14 min Scan# 4465
 Delta R.T. 0.00 min
 Lab File: VL039163.D
 Acq: 3 Jun 2022 21:52

Tgt Ion:	146	Resp:	116313
Ion Ratio	Lower	Upper	
146	100		
111	61.4	23.6	71.0
148	80.9	33.7	101.0

