

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090722\
 Data File : VL039625.D
 Acq On : 7 Sep 2022 18:50
 Operator : SY/AP
 Sample : N4507-01DL 20X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-1DL

Quant Time: Sep 08 05:59:04 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	1145597	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	6.66	114	2907074	10.00	ppbv	0.00
55) Chlorobenzene-d5	11.47	117	2613676	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.78	95	1950103	9.89	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.90%

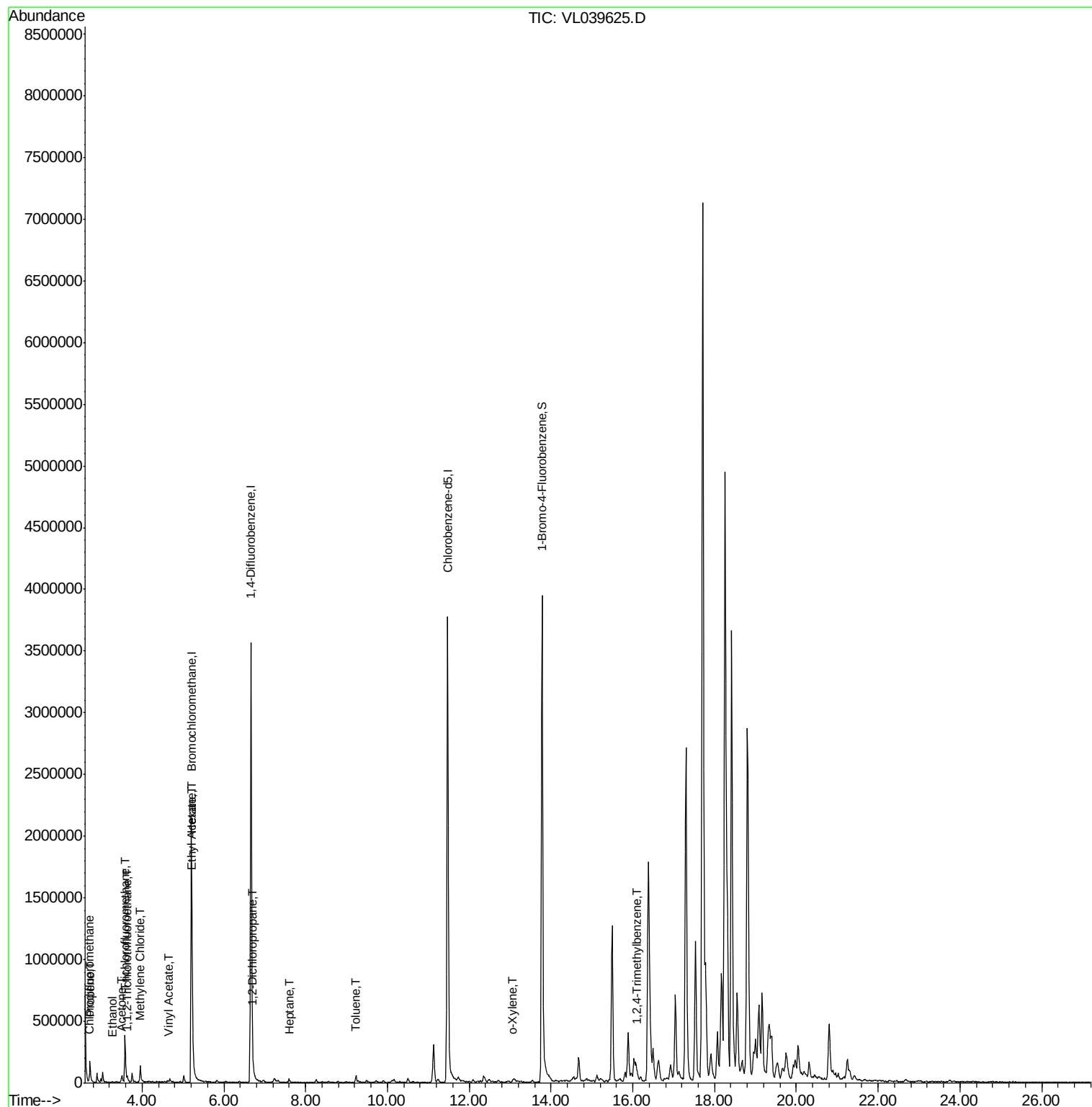
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.70	51	17908	0.131	ppbv	97
9) Propene	2.73	41	45715	0.732	ppbv #	78
10) Heptane	7.58	43	4436	0.031	ppbv #	27
11) Trichlorofluoromethane	3.59	101	264015	1.578	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	3.65	101	3948	0.032	ppbv #	13
13) Ethanol	3.27	45	1020	0.227	ppbv #	23
15) Acetone	3.50	43	53844	0.420	ppbv #	85
20) Methylene Chloride	3.95	84	45740	0.877	ppbv	94
23) Vinyl Acetate	4.65	43	4064	0.067	ppbv #	33
25) Ethyl Acetate	5.23	43	61986	0.226	ppbv #	77
26) Hexane	5.23	57	90128	0.804	ppbv #	38
39) 1,2-Dichloropropane	6.72	63	7870	0.094	ppbv #	24
53) Toluene	9.23	91	40381	0.163	ppbv	93
60) o-Xylene	13.06	91	8636	0.033	ppbv #	31
74) 1,2,4-Trimethylbenzene	16.10	105	17392	0.056	ppbv #	58

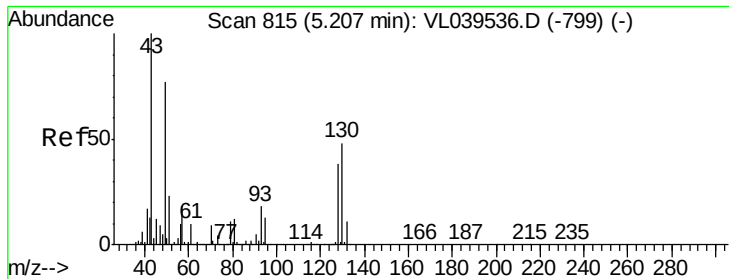
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Aug 26 06:05:16 2022
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.21 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 7 Sep 2022 18:50

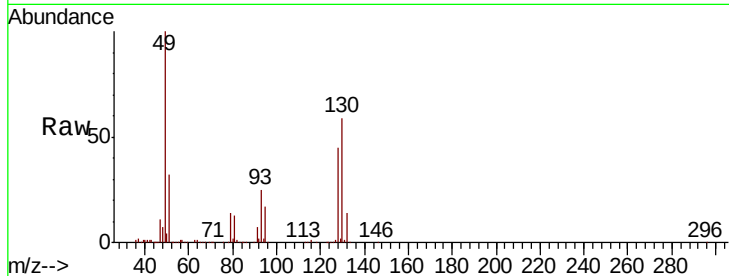
Tot Ion: 49 Resp: 1145597

Ion Ratio Lower Upper

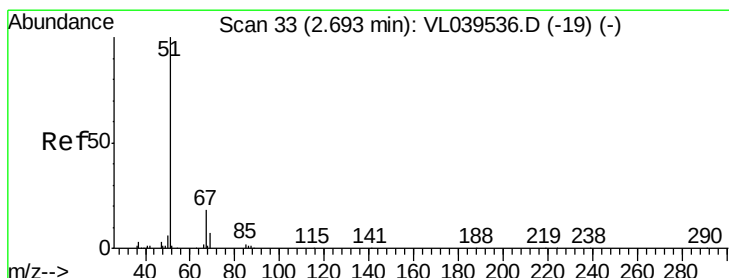
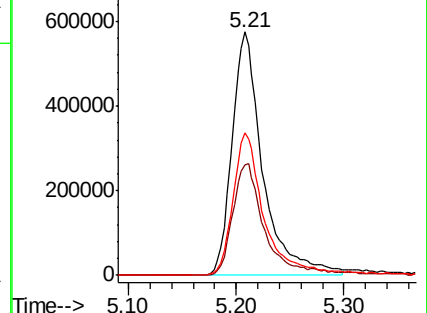
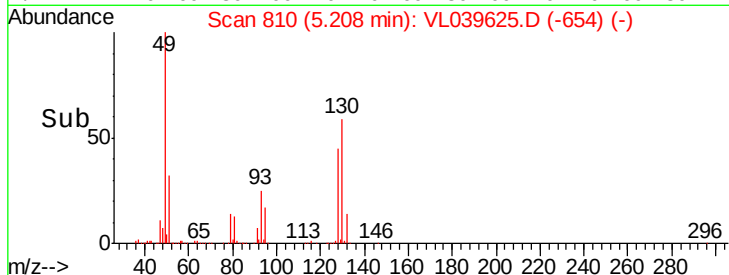
49 100

128 49.3 26.7 80.0

130 60.4 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: 0.131 ppbv

RT: 2.70 min Scan# 30

Delta R.T. 0.01 min

Lab File: VL039625.D

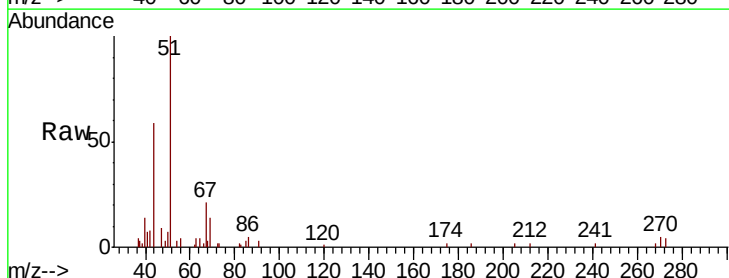
Acq: 7 Sep 2022 18:50

Tgt Ion: 51 Resp: 17908

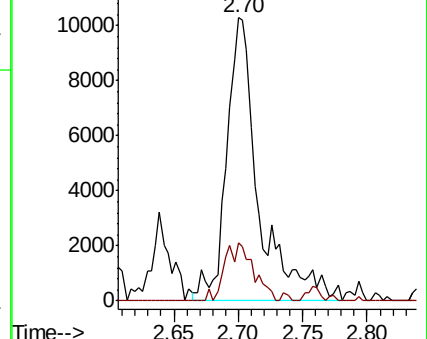
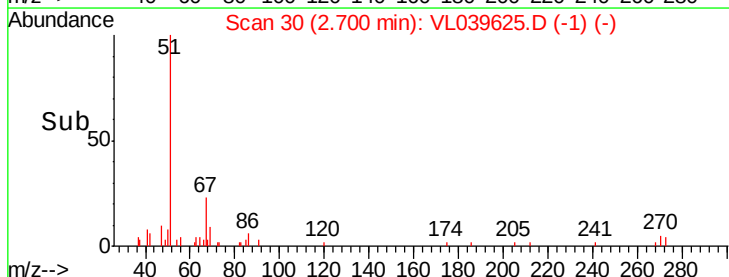
Ion Ratio Lower Upper

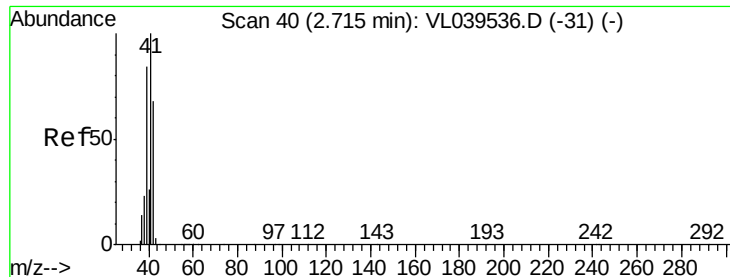
51 100

67 18.2 15.7 23.5



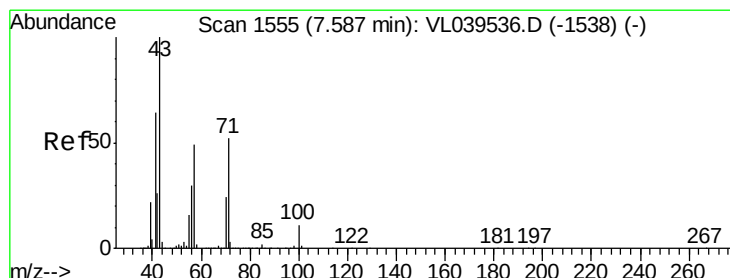
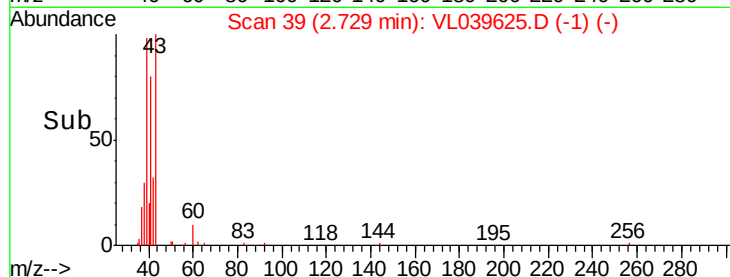
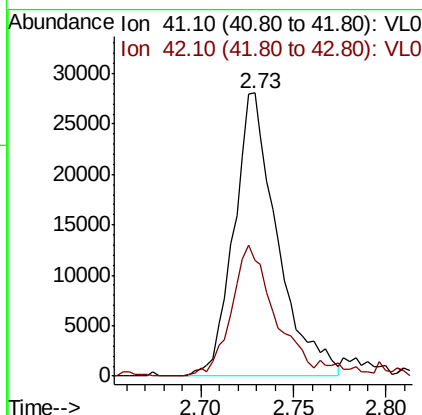
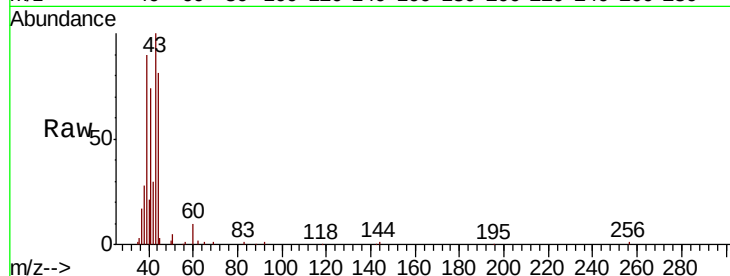
Abundance Ion 51.00 (50.70 to 51.70): VL0
Ion 67.00 (66.70 to 67.70): VL0





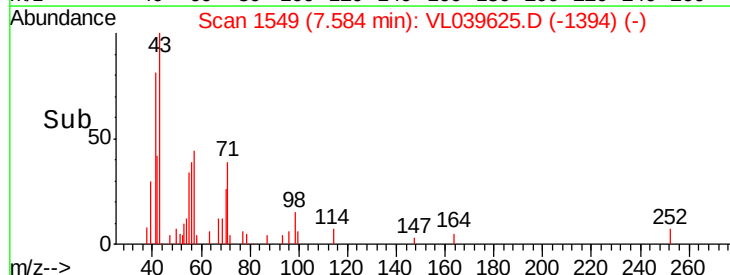
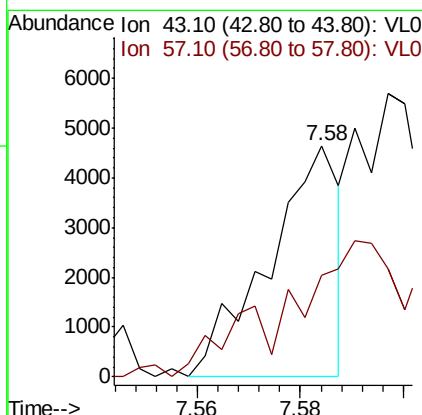
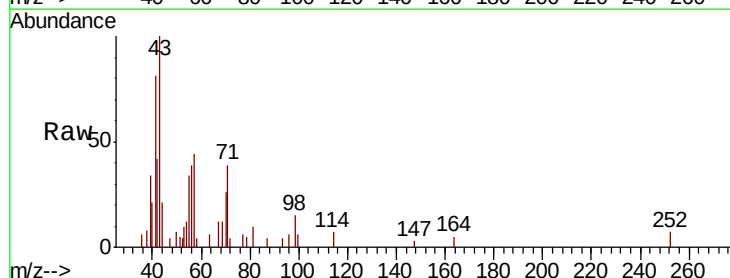
#9
 Propene
 Concen: 0.732 ppbv
 RT: 2.73
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 7 Sep 2022 18:50

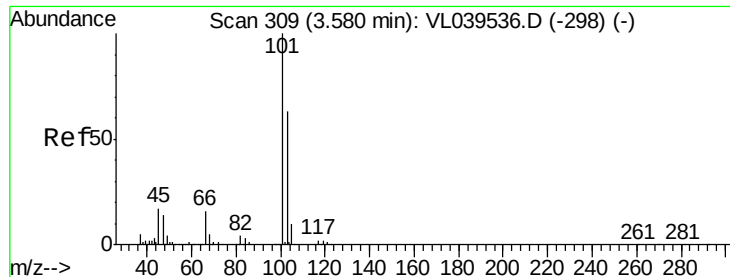
Tot Ion: 41 Resp: 45715
 Ion Ratio Lower Upper
 41 100
 42 51.3 55.2 82.8#



#10
 Heptane
 Concen: 0.031 ppbv
 RT: 7.58 min Scan# 1549
 Delta R.T. -0.00 min
 Lab File: VL039625.D
 Acq: 7 Sep 2022 18:50

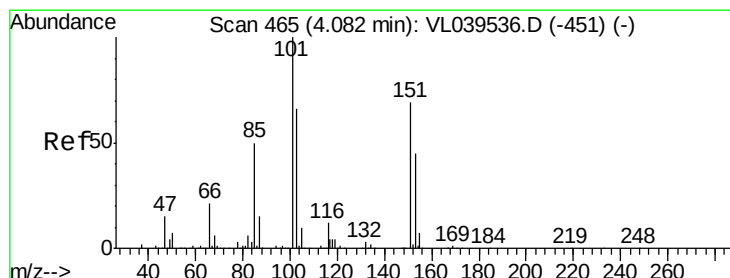
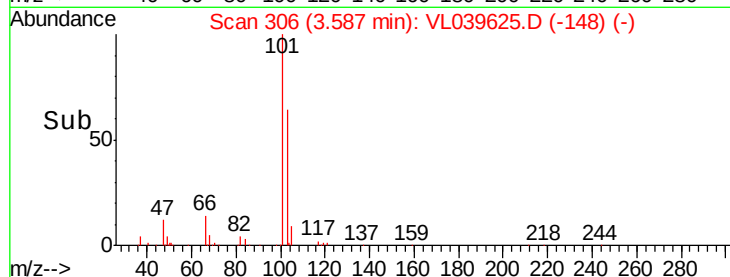
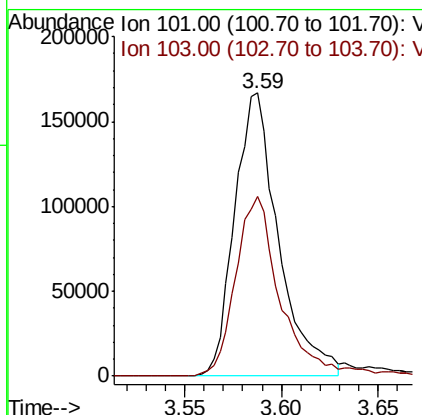
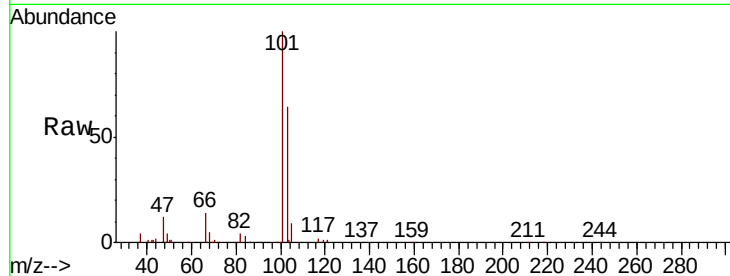
Tgt Ion: 43 Resp: 4436
 Ion Ratio Lower Upper
 43 100
 57 0.0 40.5 60.7#





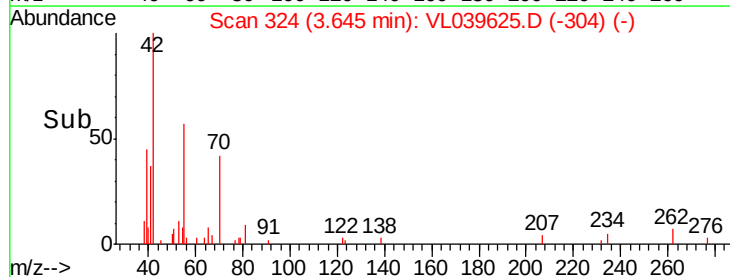
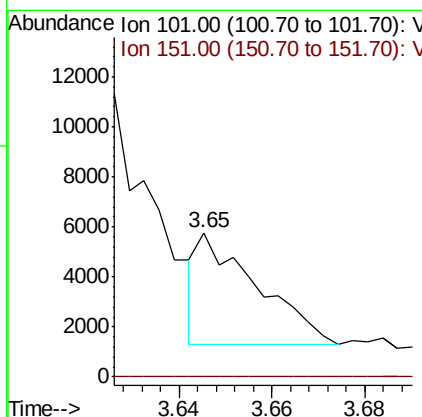
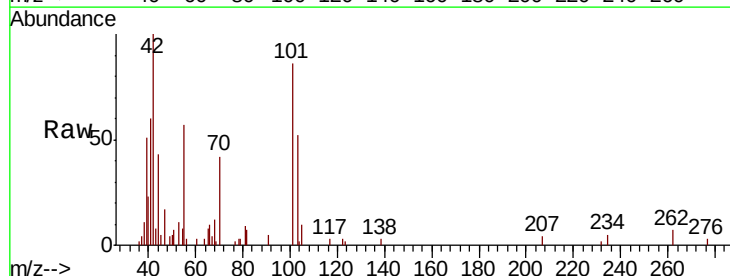
#11
 Trichlorofluoromethane
 Concen: 1.578 ppbv
 RT: 3.59
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SV-1DL
 Acq: 7 Sep 2022 18:50

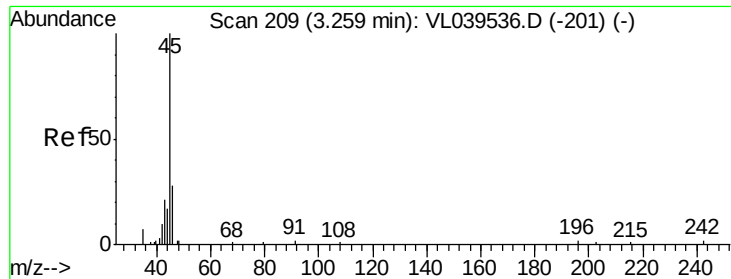
Tot Ion:101 Resp: 264015
 Ion Ratio Lower Upper
 101 100
 103 63.7 51.8 77.8



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.032 ppbv
 RT: 3.65 min Scan# 324
 Delta R.T. -0.44 min
 Lab File: VL039625.D
 Acq: 7 Sep 2022 18:50

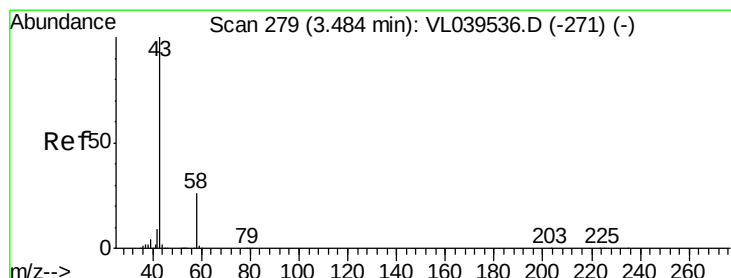
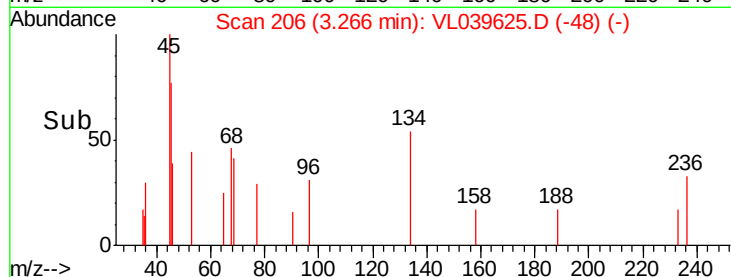
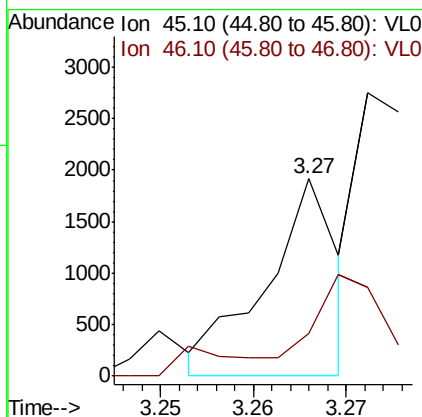
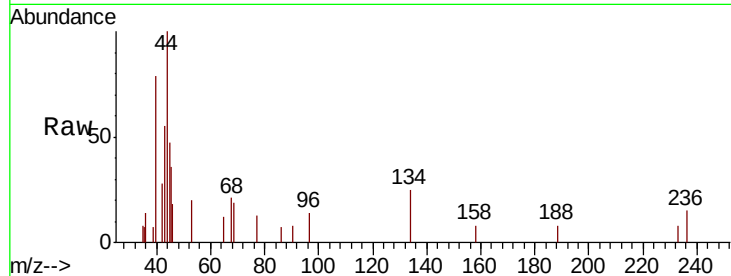
Tgt Ion:101 Resp: 3948
 Ion Ratio Lower Upper
 101 100
 151 0.0 58.9 88.3#





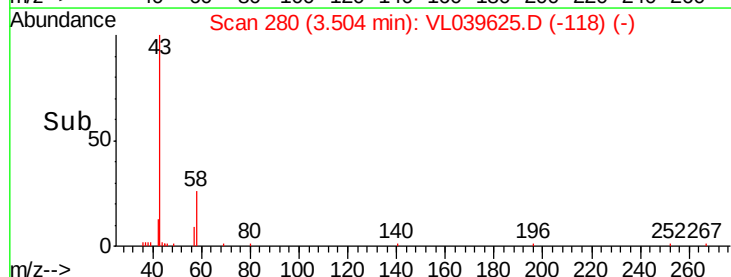
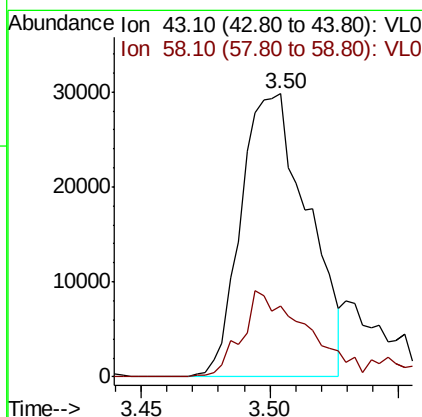
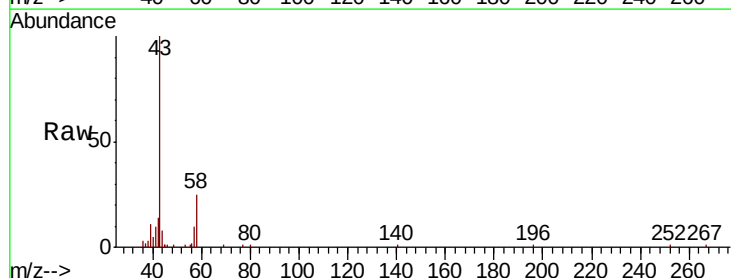
#13
Ethanol
Concen: 0.227 ppbv
RT: 3.27
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 7 Sep 2022 18:50

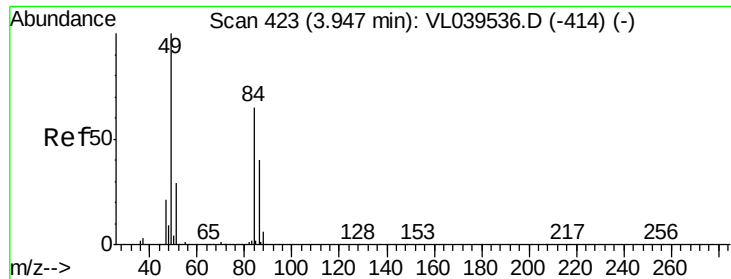
Tot Ion: 45 Resp: 1020
Ion Ratio Lower Upper
45 100
46 0.0 22.8 91.2#



#15
Acetone
Concen: 0.420 ppbv
RT: 3.50 min Scan# 280
Delta R.T. 0.02 min
Lab File: VL039625.D
Acq: 7 Sep 2022 18:50

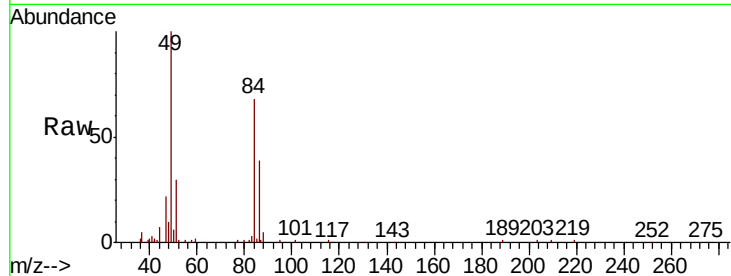
Tgt Ion: 43 Resp: 53844
Ion Ratio Lower Upper
43 100
58 33.9 21.0 31.6#



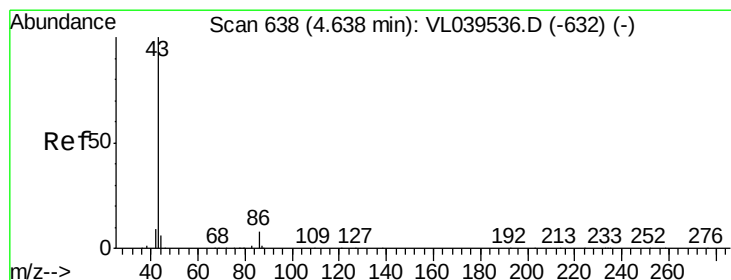
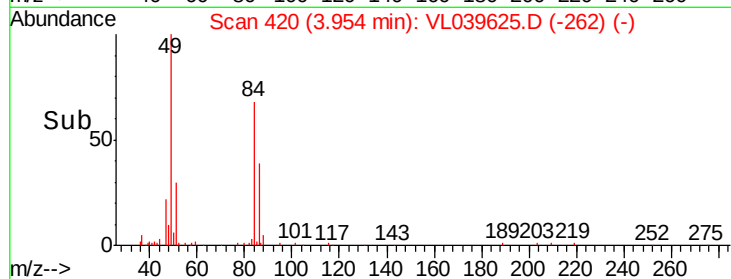
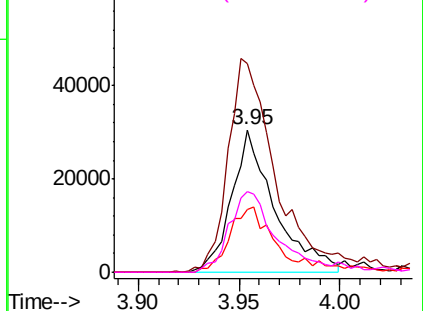


#20
Methvlene Chloride
Concen: 0.877 ppbv
RT: 3.95
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 7 Sep 2022 18:50

Tot Ion:	84	Resp:	45740
Ion	Ratio	Lower	Upper
84	100		
49	145.8	123.1	184.7
51	44.2	34.4	51.6
86	56.8	51.1	76.7

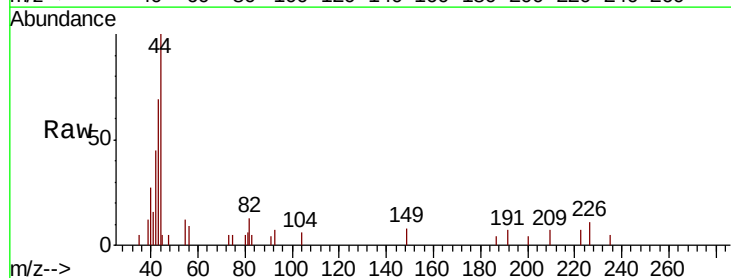


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

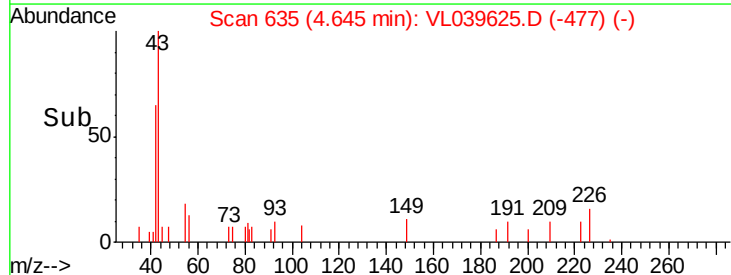
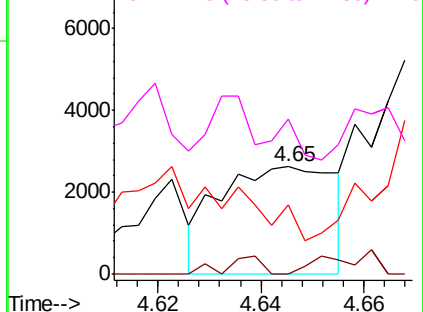


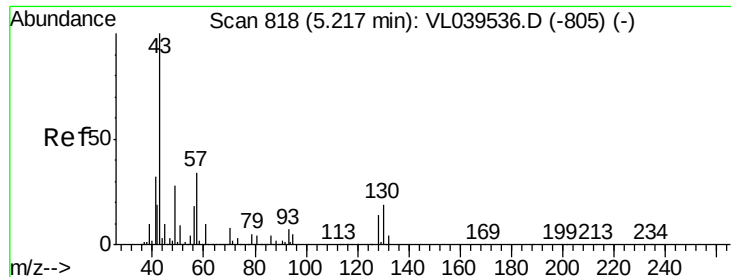
#23
Vinyl Acetate
Concen: 0.067 ppbv
RT: 4.65 min Scan# 635
Delta R.T. 0.01 min
Lab File: VL039625.D
Acq: 7 Sep 2022 18:50

Tgt Ion:	43	Resp:	4064
Ion	Ratio	Lower	Upper
43	100		
86	0.0	5.0	7.6#
42	27.7	7.7	11.5#
44	55.2	4.6	7.0#



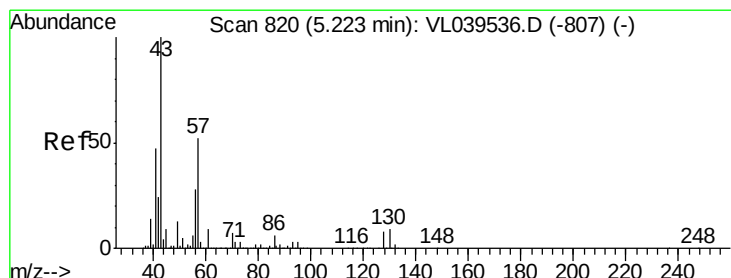
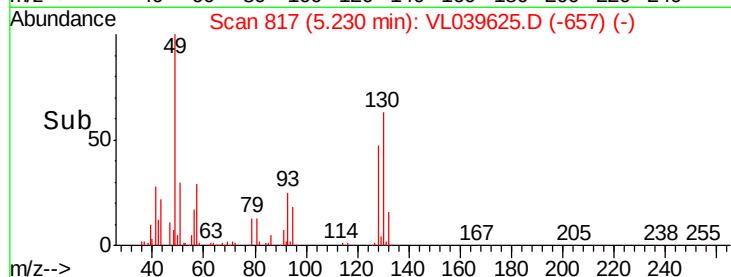
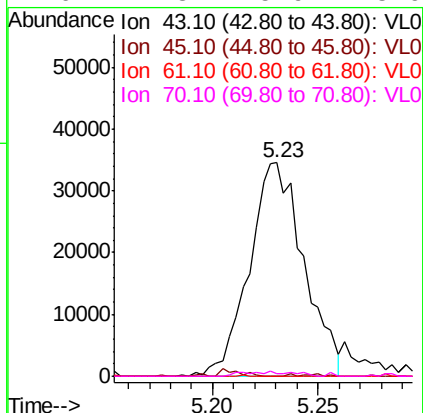
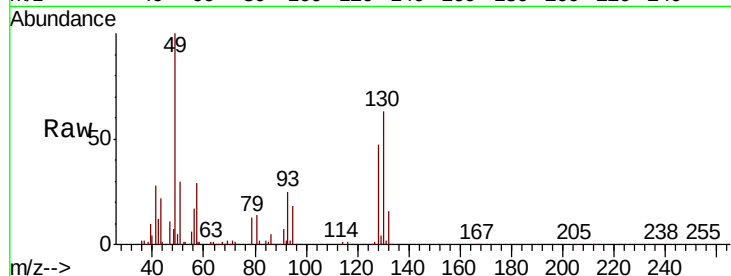
Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0





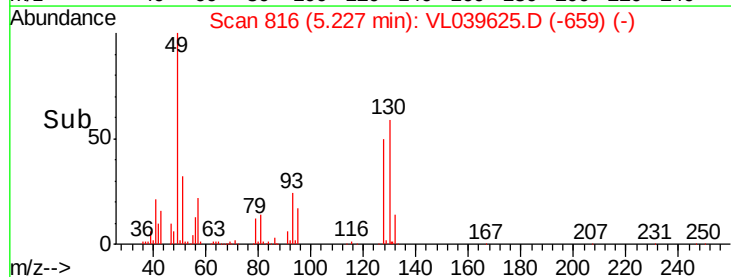
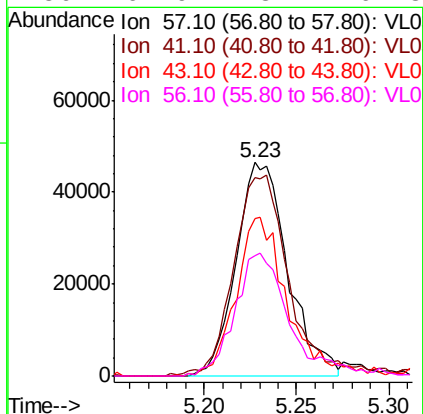
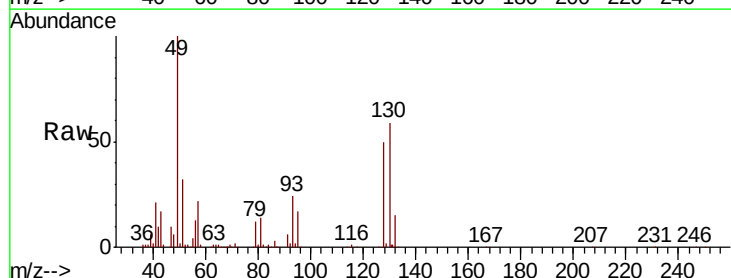
#25
Ethyl Acetate
Concen: 0.226 ppbv
RT: 5.23 min
Delta R.T.: 0.00 min
Lab File: VL039625.D
Acq: 7 Sep 2022 18:50

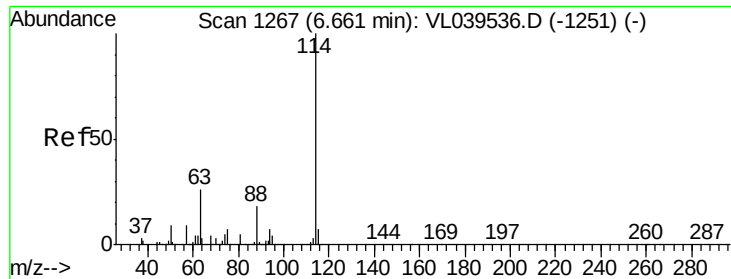
Tot Ion:	43	Resp:	61986
Ion	Ratio	Lower	Upper
43	100		
45	1.4	8.2	12.4#
61	0.2	8.3	12.5#
70	2.3	5.9	8.9#



#26
Hexane
Concen: 0.804 ppbv
RT: 5.23 min Scan# 816
Delta R.T.: 0.00 min
Lab File: VL039625.D
Acq: 7 Sep 2022 18:50

Tgt Ion:	57	Resp:	90128
Ion	Ratio	Lower	Upper
57	100		
41	101.0	76.9	115.3
43	75.6	191.0	286.6#
56	61.9	43.2	64.8





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.66 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 7 Sep 2022 18:50

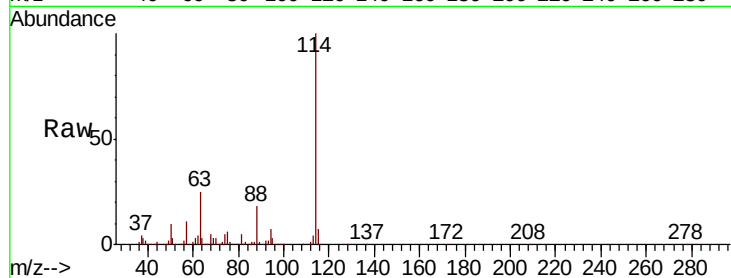
Tot Ion:114 Resp: 2907074

Ion Ratio Lower Upper

114 100

63 24.8 20.2 30.4

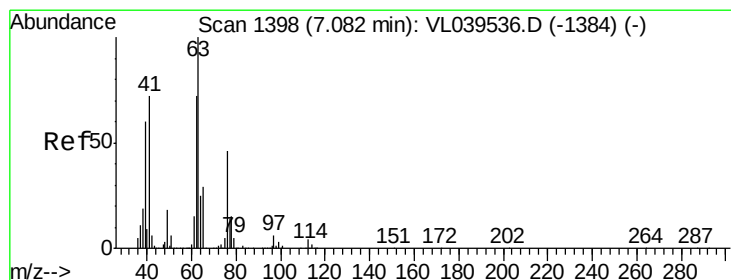
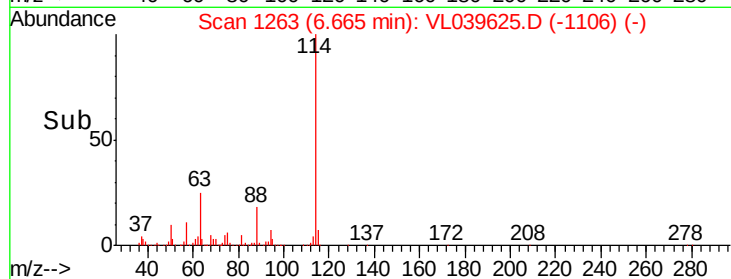
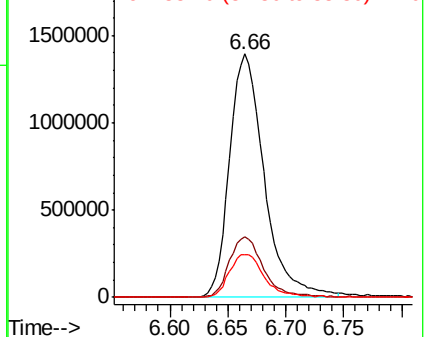
88 18.1 14.5 21.7



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



#39

1,2-Dichloropropane

Concen: 0.094 ppbv

RT: 6.72 min Scan# 1279

Delta R.T. -0.37 min

Lab File: VL039625.D

Acq: 7 Sep 2022 18:50

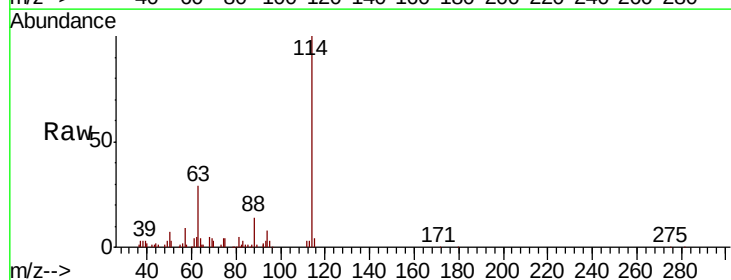
Tgt Ion: 63 Resp: 7870

Ion Ratio Lower Upper

63 100

41 0.0 59.6 89.4#

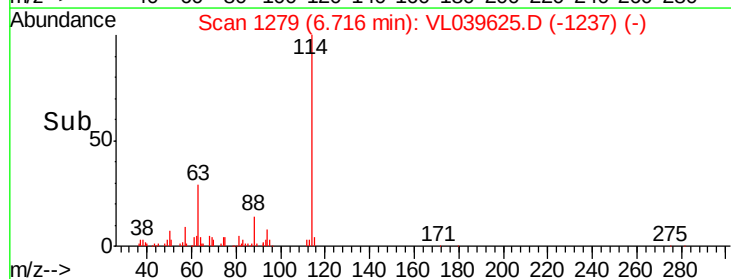
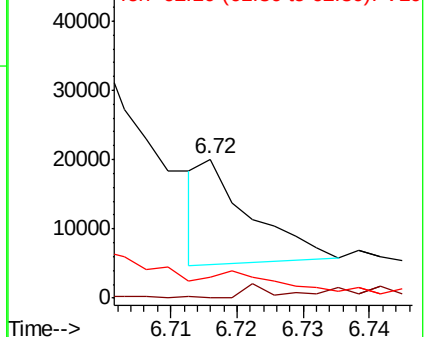
62 14.8 51.4 77.0#

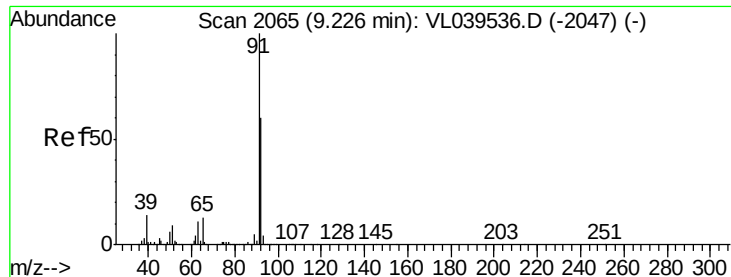


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#53

Toluene

Concen: 0.163 ppbv

RT: 9.23 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SV-1DL

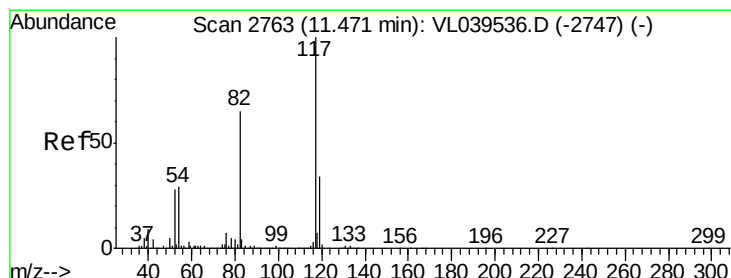
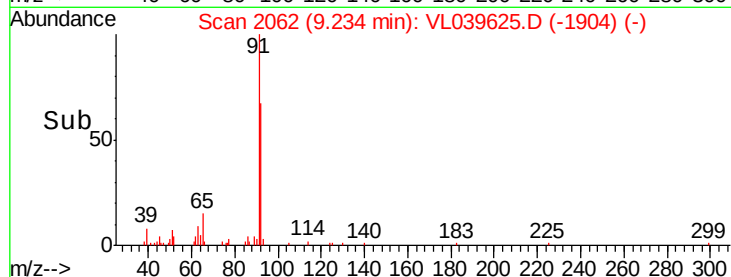
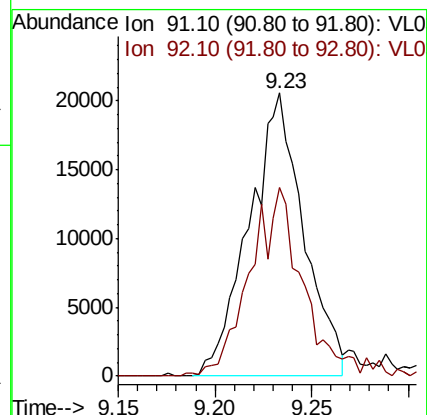
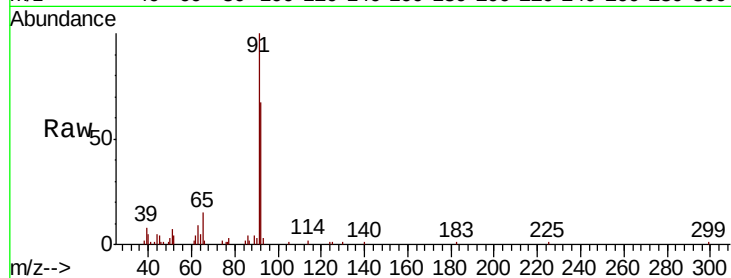
Acq: 7 Sep 2022 18:50

Tot Ion: 91 Resp: 40381

Ion Ratio Lower Upper

91 100

92 65.3 48.2 72.2



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.47 min Scan# 2758

Delta R.T. 0.00 min

Lab File: VL039625.D

Acq: 7 Sep 2022 18:50

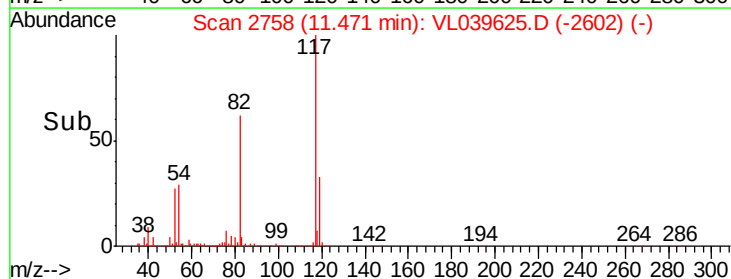
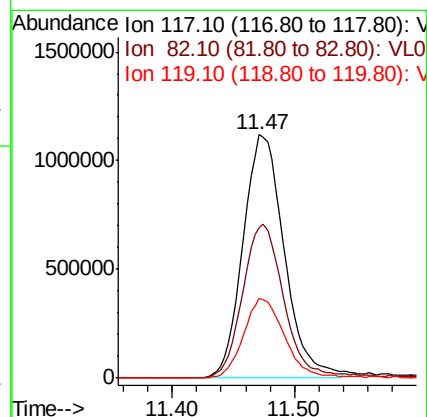
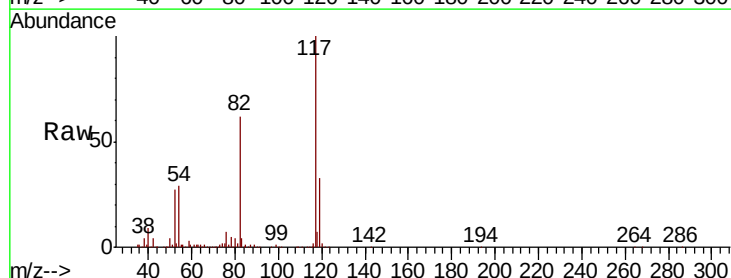
Tgt Ion: 117 Resp: 2613676

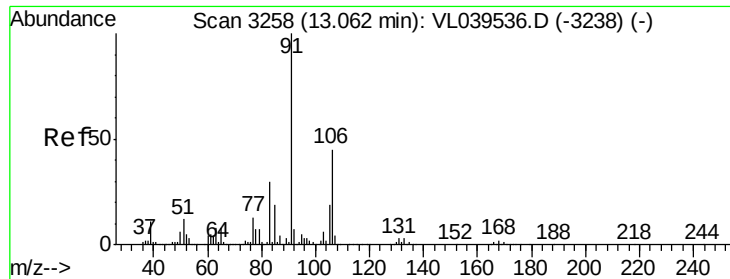
Ion Ratio Lower Upper

117 100

82 64.7 50.8 76.2

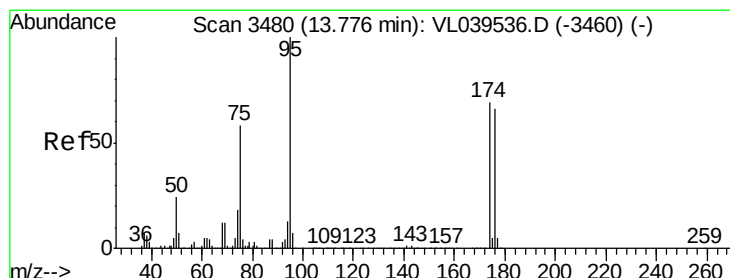
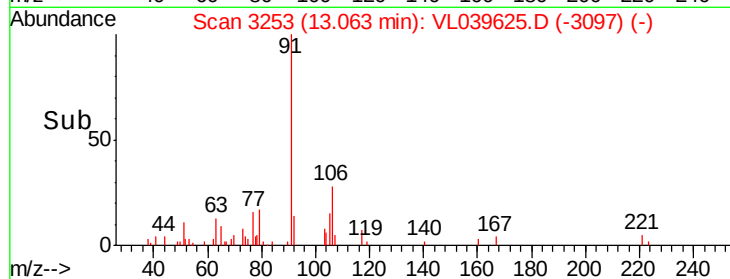
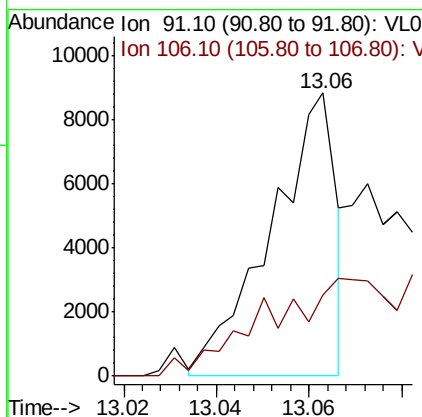
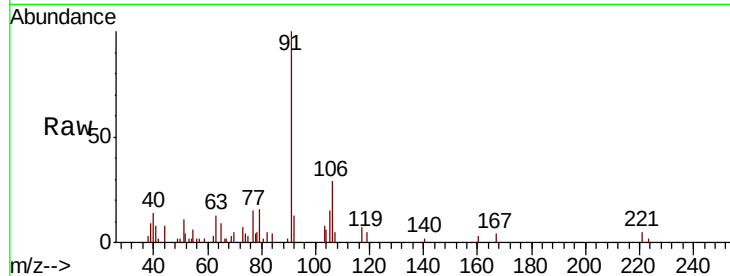
119 32.9 24.1 36.1





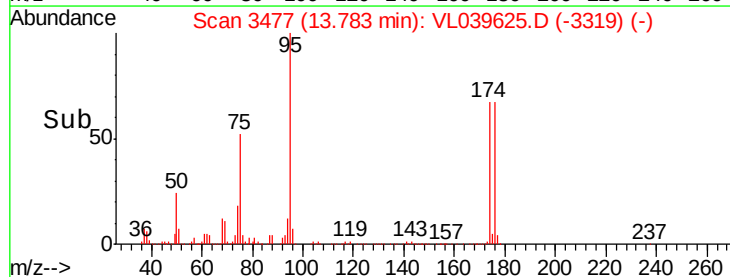
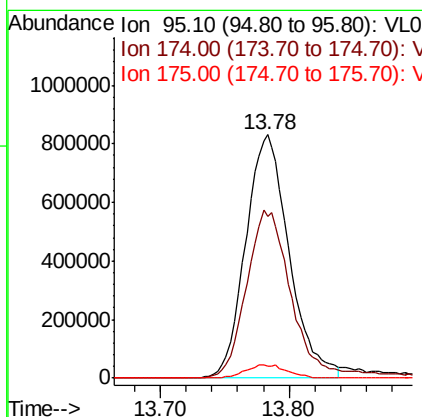
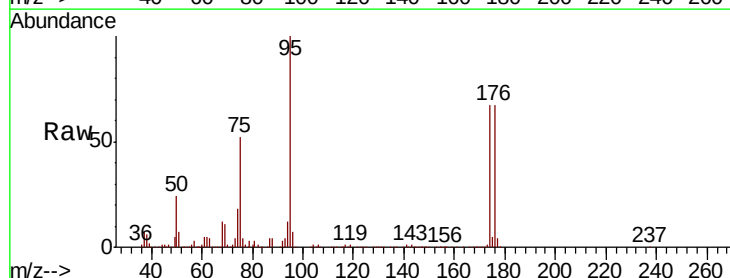
#60
o-Xylene
Concen: 0.033 ppbv
RT: 13.06
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 7 Sep 2022 18:50

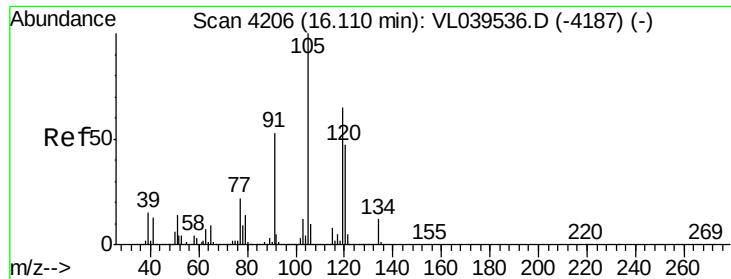
Tot Ion: 91 Resp: 8636
Ion Ratio Lower Upper
91 100
106 0.0 22.4 67.3#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.890 ppbv
RT: 13.78 min Scan# 3477
Delta R.T. 0.01 min
Lab File: VL039625.D
Acq: 7 Sep 2022 18:50

Tgt Ion: 95 Resp: 1950103
Ion Ratio Lower Upper
95 100
174 74.5 55.9 83.9
175 5.6 4.2 6.4





#74
 1,2,4-Trimethylbenzene
 Concen: 0.056 ppbv
 RT: 16.10
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 SV-1DL
 Acq: 7 Sep 2022 18:30

Tot Ion:	105	Resp:	17392
Ion	Ratio	Lower	Upper
105	100		
120	25.3	39.5	59.3#
91	9.9	39.2	58.8#
77	9.5	17.2	25.8#

