

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL072522\
 Data File : VL039527.D
 Acq On : 25 Jul 2022 22:07
 Operator : SY/AP
 Sample : N3842-02DL 40X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Quant Time: Jul 26 08:06:33 2022
 Quant Method : Z:\VOASRV\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
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1132418	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.18	114	3124828	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.09	117	2718203	10.00	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2057185	10.20	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.00%

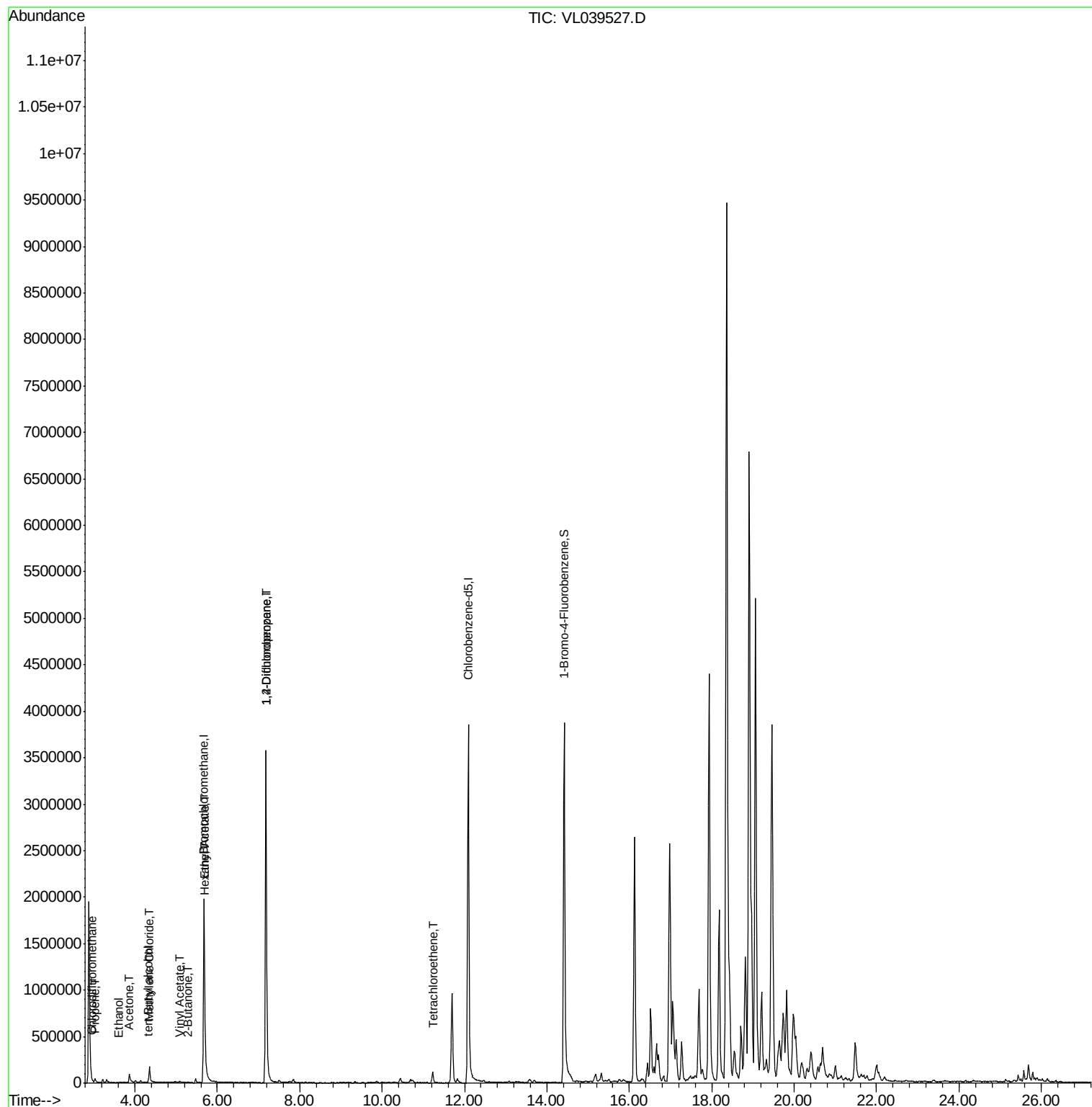
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.97	51	7661	0.053	ppbv #	65
9) Propene	3.03	41	15744	0.243	ppbv	87
13) Ethanol	3.61	45	1362	0.362	ppbv #	23
15) Acetone	3.86	43	106313	0.794	ppbv #	82
17) tert-Butyl alcohol	4.32	59	4839	0.043	ppbv	95
20) Methylene Chloride	4.35	84	65790	1.232	ppbv	96
23) Vinyl Acetate	5.08	43	7489	0.084	ppbv #	92
25) Ethyl Acetate	5.69	43	29333	0.107	ppbv #	75
26) Hexane	5.69	57	88225	0.797	ppbv #	37
34) 2-Butanone	5.27	43	6057	0.039	ppbv #	48
39) 1,2-Dichloropropane	7.18	63	763450	8.450	ppbv #	25
52) Tetrachloroethene	11.22	164	22716	0.233	ppbv	91

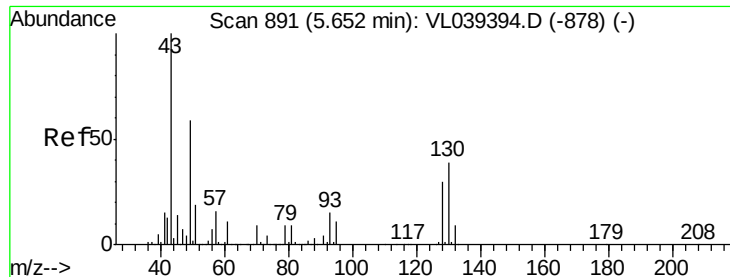
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 25 Jul 2022 22:07 SV1DL

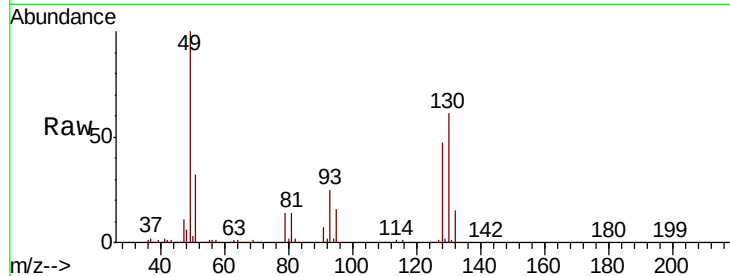
Tot Ion: 49 Resp: 1132418

Ion Ratio Lower Upper

49 100

128 51.6 26.7 80.0

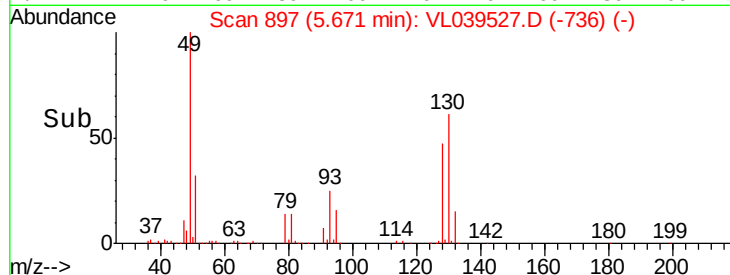
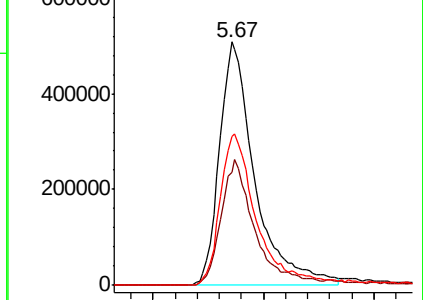
130 66.2 34.3 102.8



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: 0.053 ppbv

RT: 2.97 min Scan# 58

Delta R.T. -0.01 min

Lab File: VL039527.D

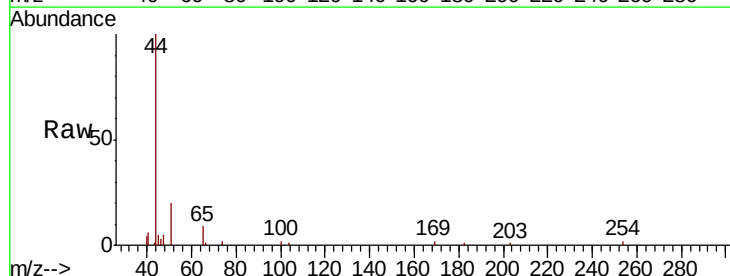
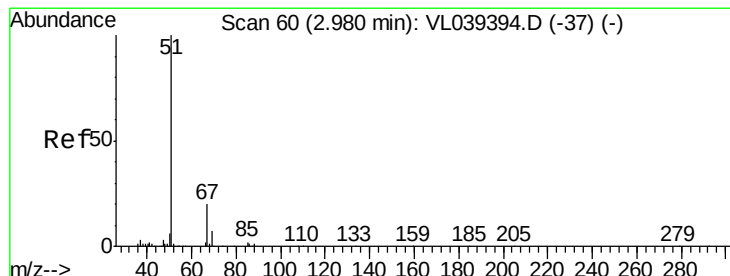
Acq: 25 Jul 2022 22:07

Tgt Ion: 51 Resp: 7661

Ion Ratio Lower Upper

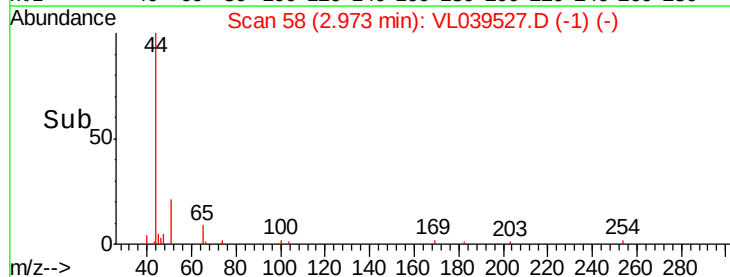
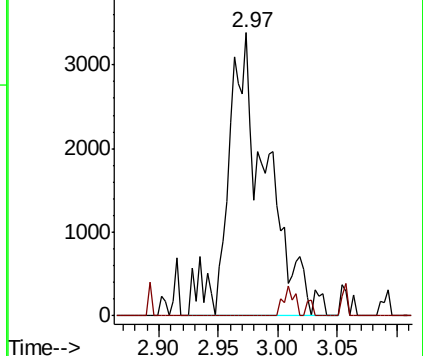
51 100

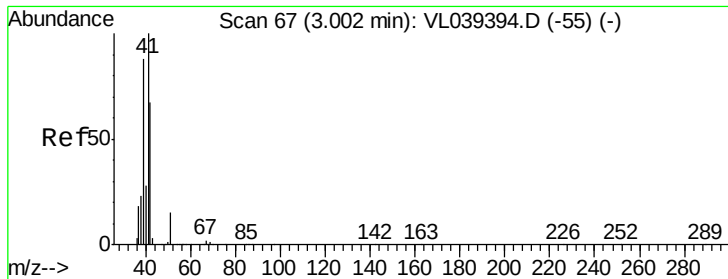
67 3.9 15.7 23.5#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.243 ppbv

RT: 3.03 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

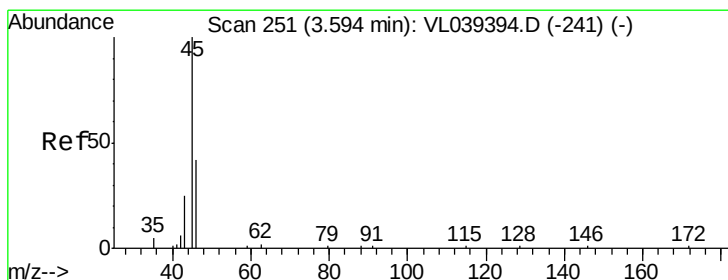
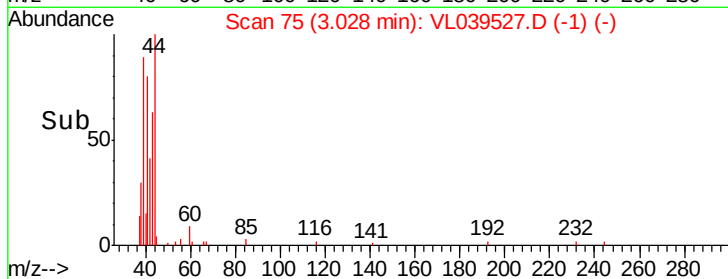
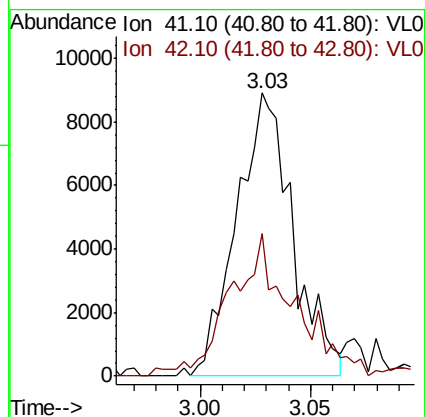
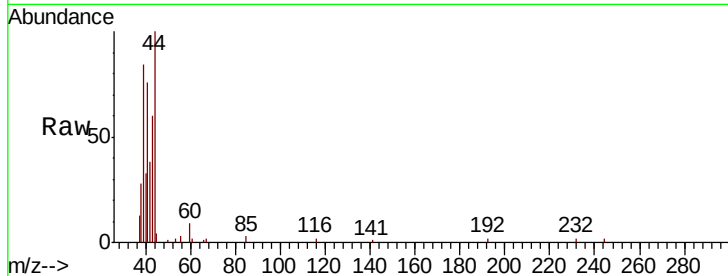
Acq: 25 Jul 2022 22:07 SV1DL

Tot Ion: 41 Resp: 15744

Ion Ratio Lower Upper

41 100

42 58.5 55.2 82.8



#13

Ethanol

Concen: 0.362 ppbv

RT: 3.61 min Scan# 256

Delta R.T. 0.02 min

Lab File: VL039527.D

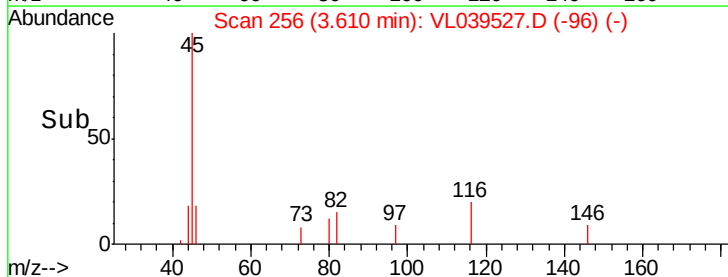
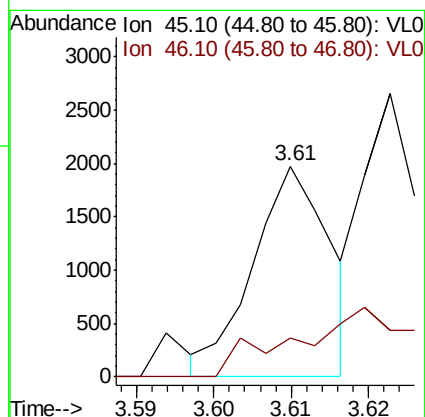
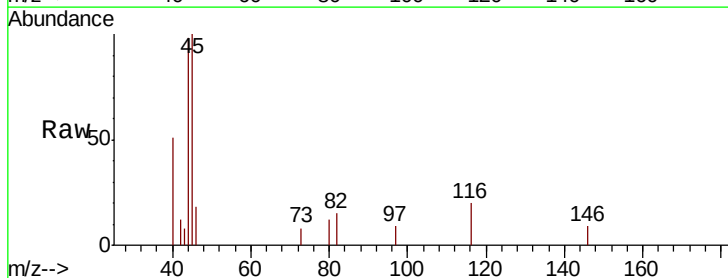
Acq: 25 Jul 2022 22:07

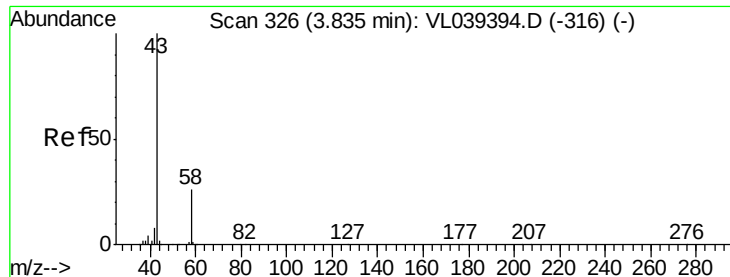
Tgt Ion: 45 Resp: 1362

Ion Ratio Lower Upper

45 100

46 0.0 22.8 91.2#





#15

Acetone

Concen: 0.794 ppbv

RT: 3.86

Delta R.T.

Lab File:

Acq: 25 Jul 2022 22:07

Instrument :

MSVOA_L

ClientSampleId :

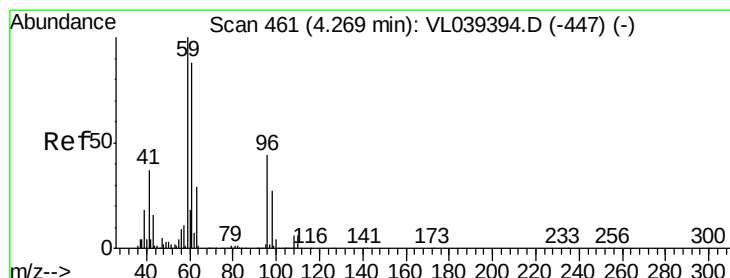
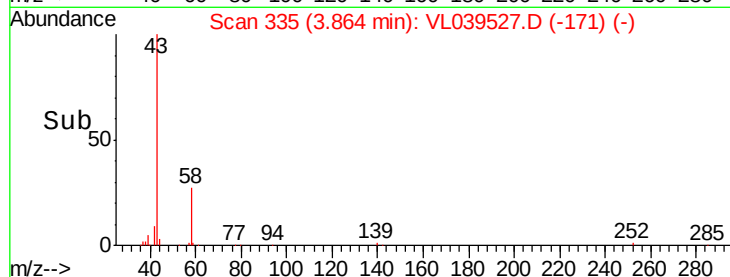
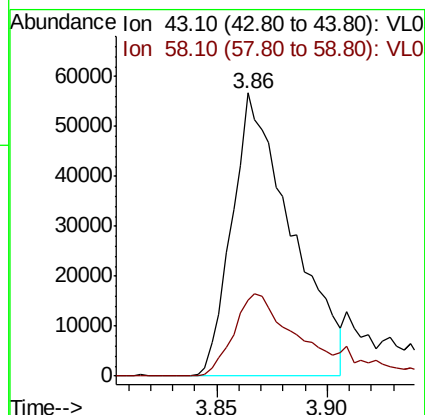
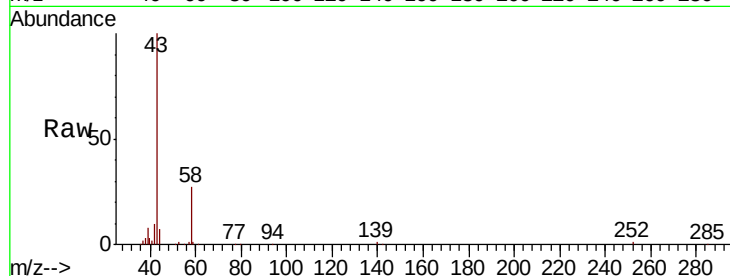
SV1DL

Tot Ion: 43 Resp: 106313

Ion Ratio Lower Upper

43 100

58 35.3 21.0 31.6#



#17

tert-Butyl alcohol

Concen: 0.043 ppbv

RT: 4.32 min Scan# 477

Delta R.T. 0.05 min

Lab File: VL039527.D

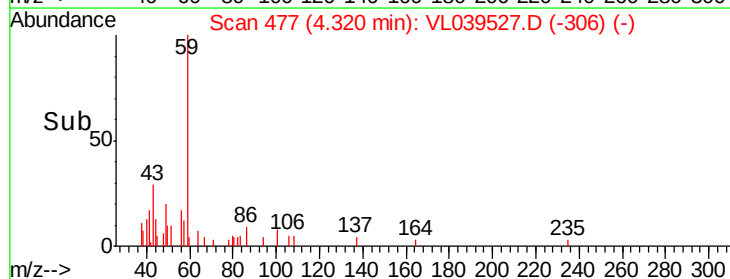
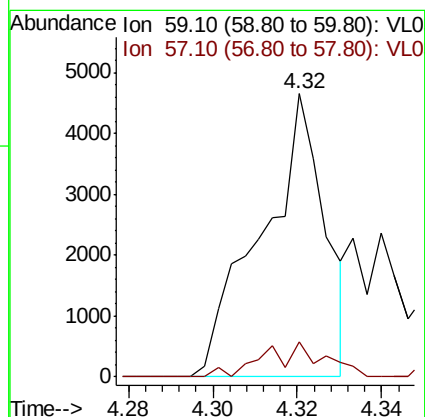
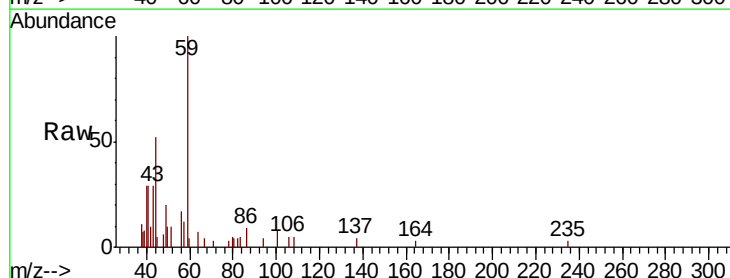
Acq: 25 Jul 2022 22:07

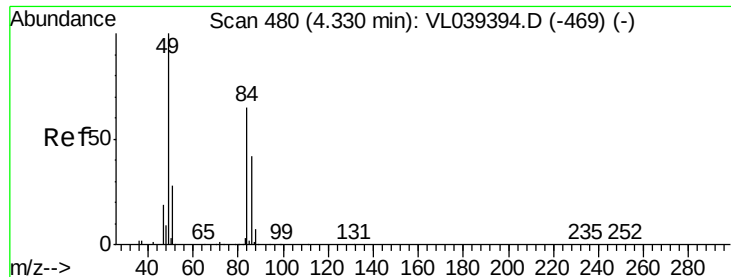
Tgt Ion: 59 Resp: 4839

Ion Ratio Lower Upper

59 100

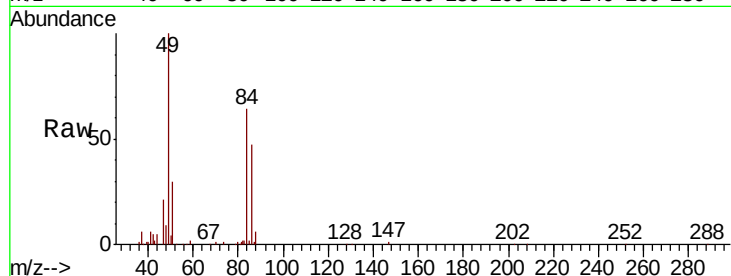
57 12.6 8.7 13.1



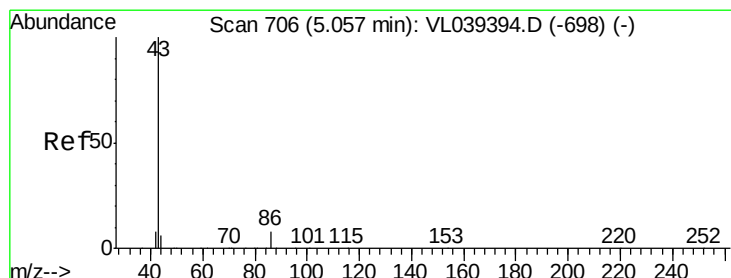
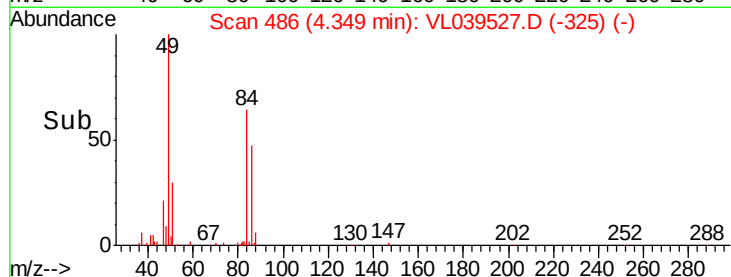
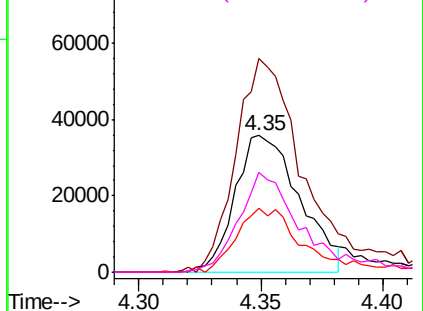


#20
Methvlene Chloride
Concen: 1.232 ppbv
RT: 4.35
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 25 Jul 2022 22:07

Tot Ion: 84 Resp: 65790
Ion Ratio Lower Upper
84 100
49 152.4 123.1 184.7
51 45.9 34.4 51.6
86 72.2 51.1 76.7

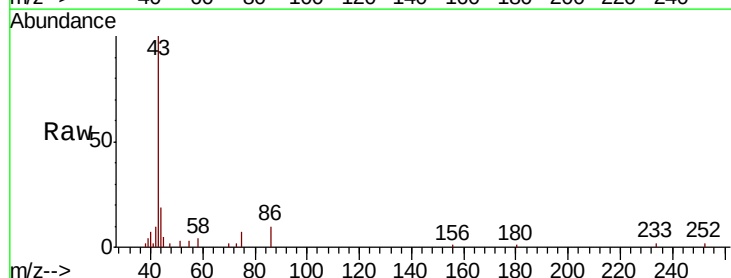


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

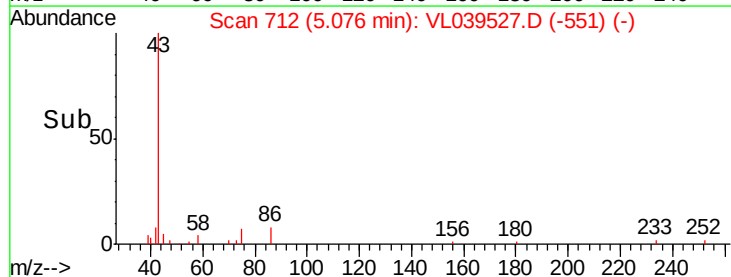
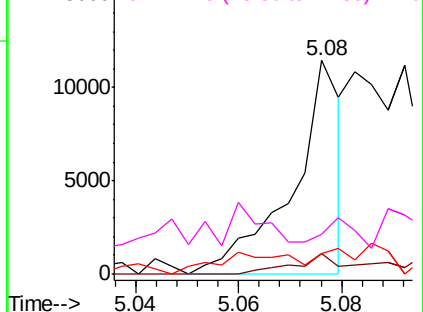


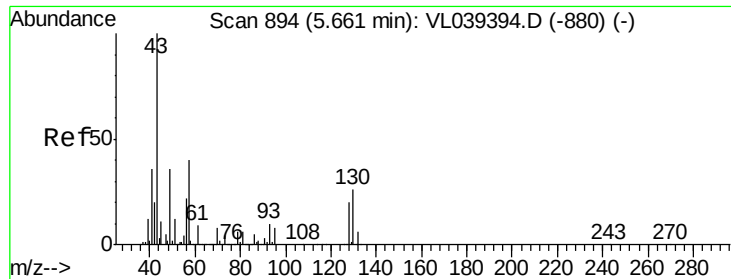
#23
Vinyl Acetate
Concen: 0.084 ppbv
RT: 5.08 min Scan# 712
Delta R.T. 0.02 min
Lab File: VL039527.D
Acq: 25 Jul 2022 22:07

Tgt Ion: 43 Resp: 7489
Ion Ratio Lower Upper
43 100
86 9.9 5.0 7.6#
42 6.4 7.7 11.5#
44 4.8 4.6 7.0



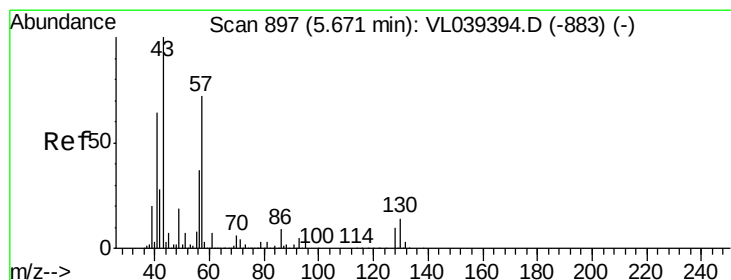
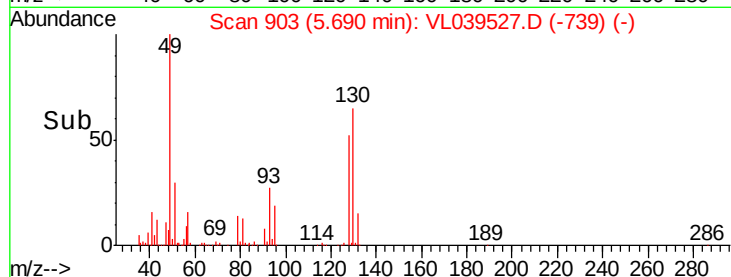
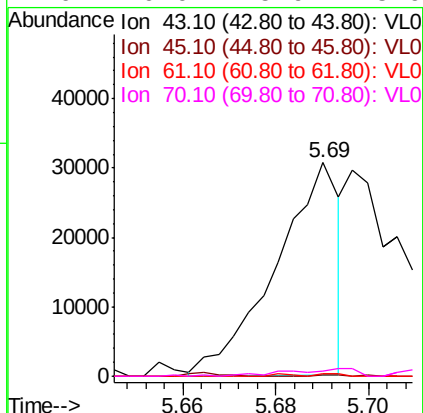
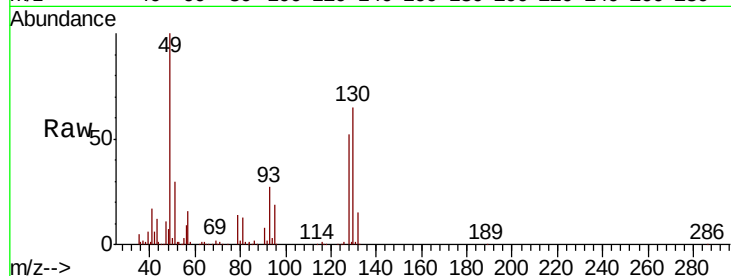
Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0





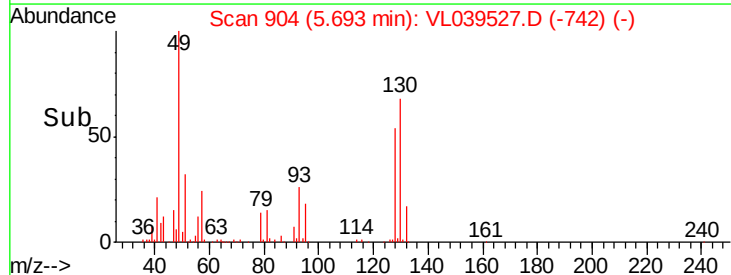
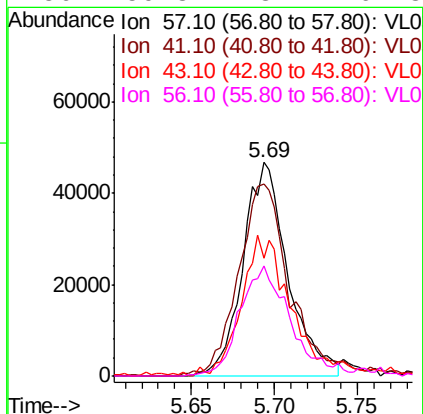
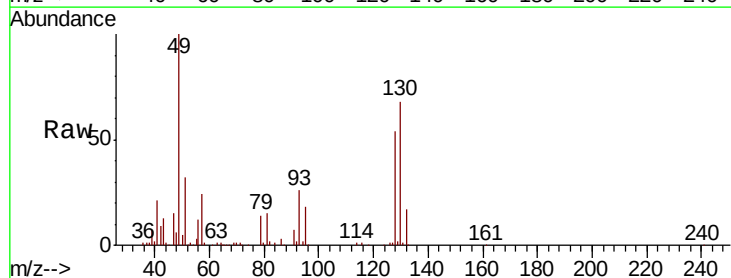
#25
Ethyl Acetate
Concen: 0.107 ppbv
RT: 5.69
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
SV1DL
Acq: 25 Jul 2022 22:07

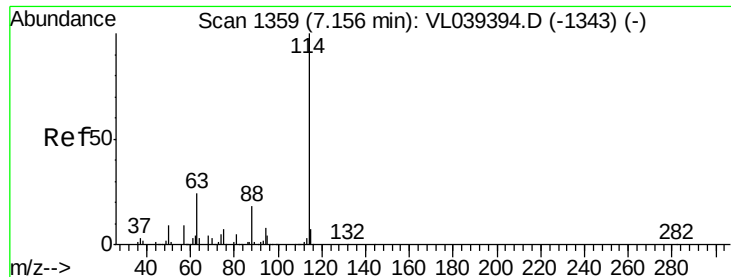
Tot Ion:	43	Resp:	29333
Ion	Ratio	Lower	Upper
43	100		
45	0.7	8.2	12.4#
61	0.0	8.3	12.5#
70	0.0	5.9	8.9#



#26
Hexane
Concen: 0.797 ppbv
RT: 5.69 min Scan# 904
Delta R.T.: 0.02 min
Lab File: VL039527.D
Acq: 25 Jul 2022 22:07

Tgt Ion:	57	Resp:	88225
Ion	Ratio	Lower	Upper
57	100		
41	105.5	76.9	115.3
43	75.3	191.0	286.6#
56	59.8	43.2	64.8

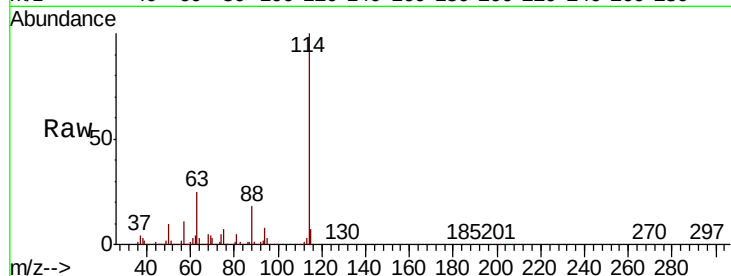




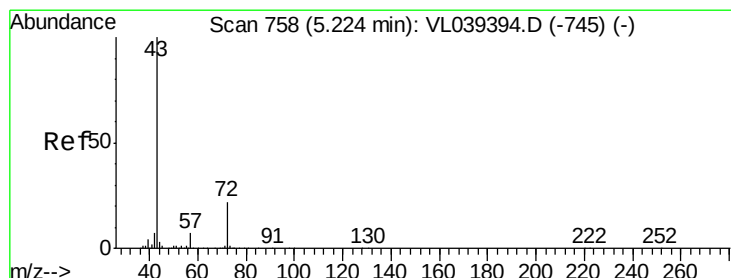
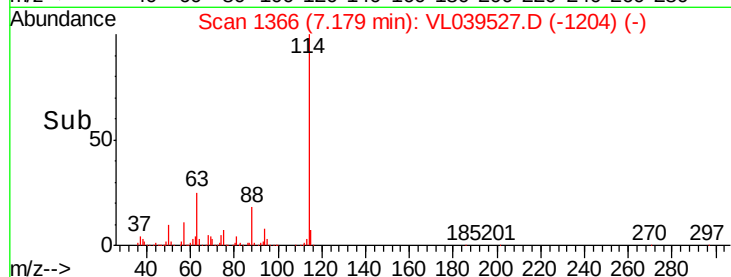
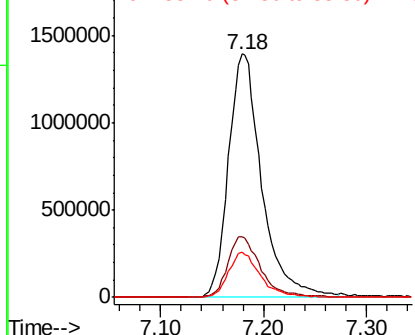
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SV1DL
 Acq: 25 Jul 2022 22:07

Tot Ion:114 Resp: 3124828

Ion	Ratio	Lower	Upper
114	100		
63	25.4	20.2	30.4
88	18.1	14.5	21.7



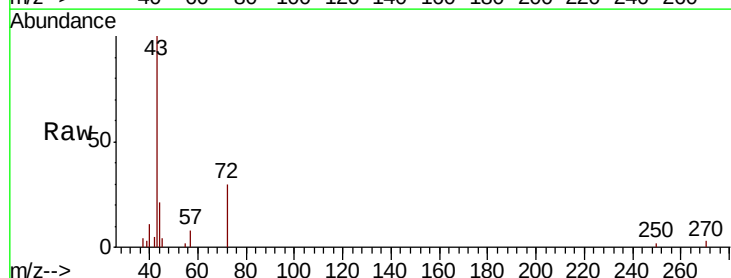
Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0



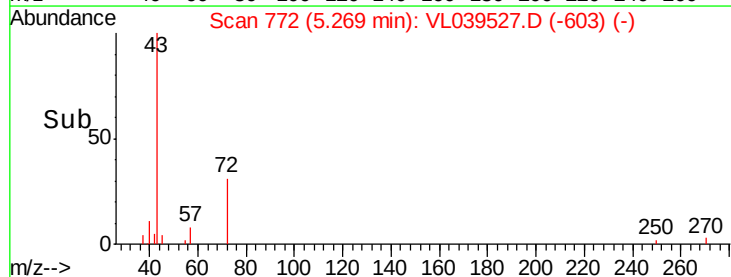
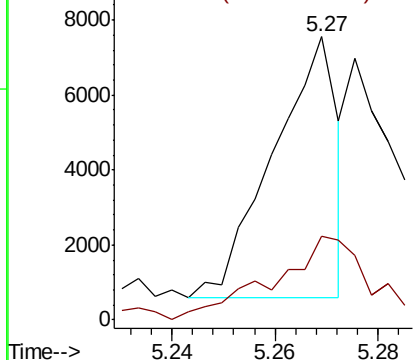
#34
 2-Butanone
 Concen: 0.039 ppbv
 RT: 5.27 min Scan# 772
 Delta R.T. 0.04 min
 Lab File: VL039527.D
 Acq: 25 Jul 2022 22:07

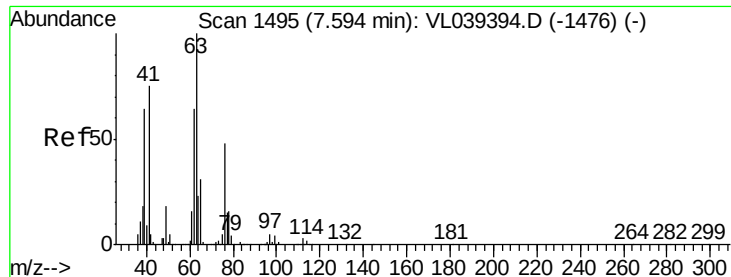
Tgt Ion: 43 Resp: 6057

Ion	Ratio	Lower	Upper
43	100		
72	47.4	17.9	26.9#



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





#39

1,2-Dichloropropane

Concen: 8.450 ppbv

RT: 7.18 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 25 Jul 2022 22:07 SV1DL

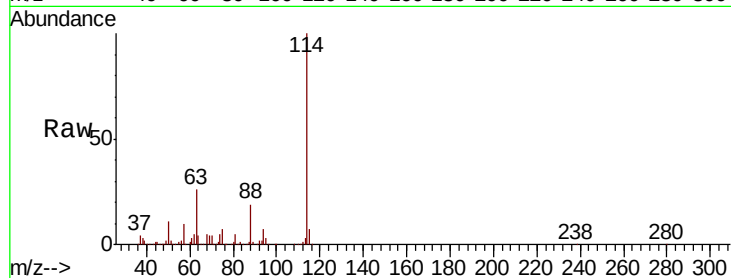
Tot Ion: 63 Resp: 763450

Ion Ratio Lower Upper

63 100

41 0.1 59.6 89.4#

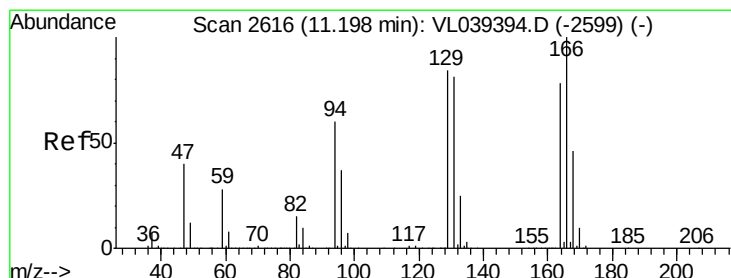
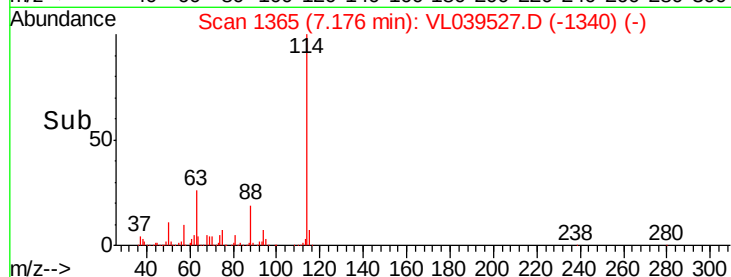
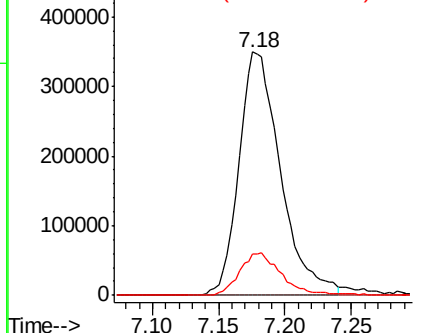
62 17.2 51.4 77.0#



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



#52

Tetrachloroethene

Concen: 0.233 ppbv

RT: 11.22 min Scan# 2624

Delta R.T. 0.03 min

Lab File: VL039527.D

Acq: 25 Jul 2022 22:07

Tgt Ion: 164 Resp: 22716

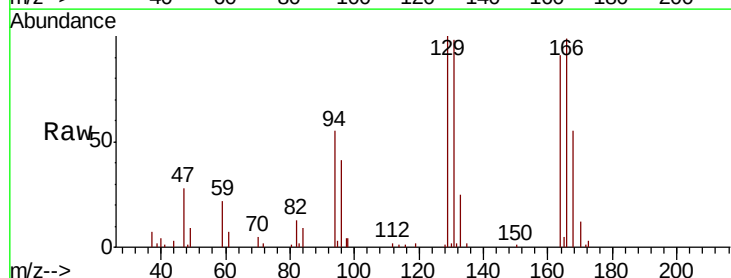
Ion Ratio Lower Upper

164 100

166 108.2 102.2 153.2

129 108.3 85.8 128.8

131 110.2 83.3 124.9

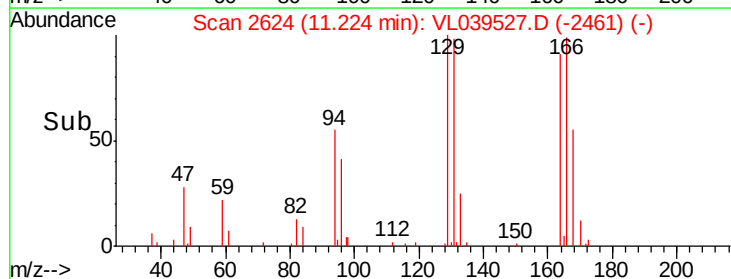
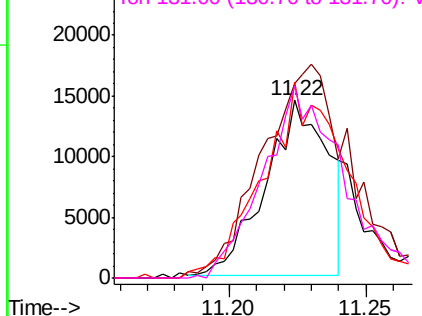


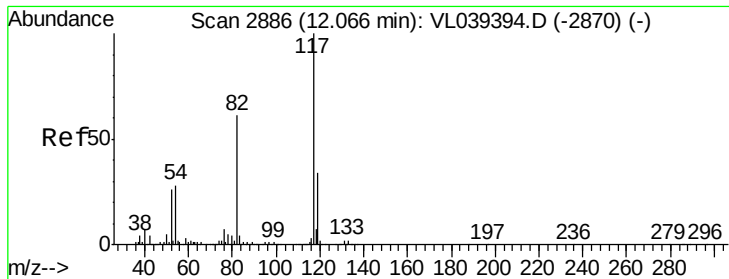
Abundance Ion 163.90 (163.60 to 164.60): V

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

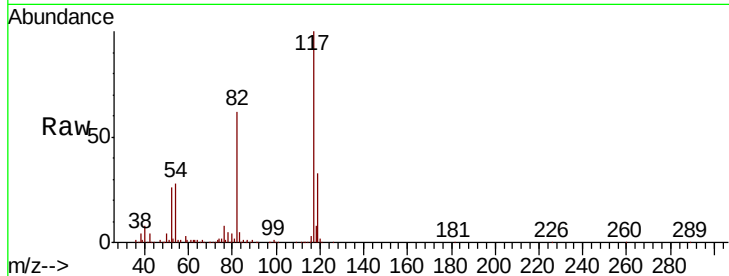




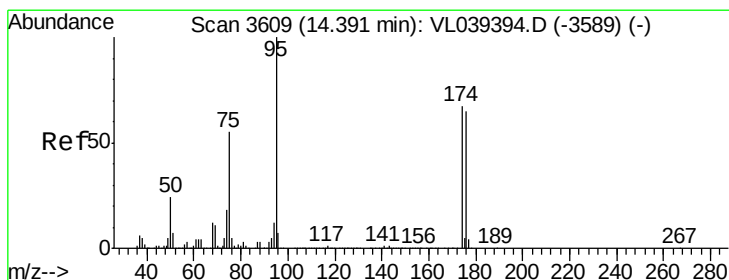
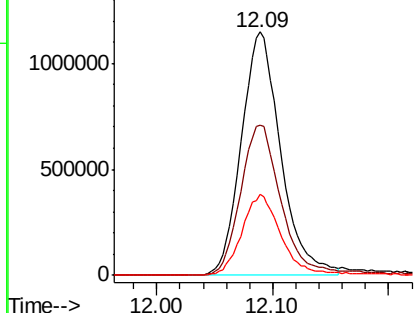
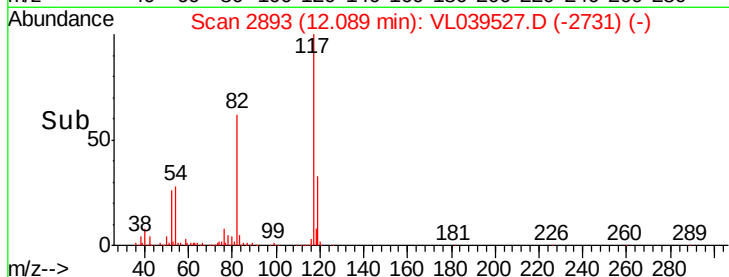
#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.09 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 SV1DL
 Acq: 25 Jul 2022 22:07

Tot Ion: 117 Resp: 2718203

Ion	Ratio	Lower	Upper
117	100		
82	65.2	50.8	76.2
119	33.9	24.1	36.1



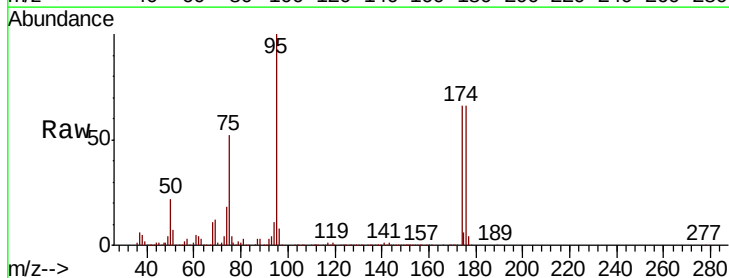
Abundance Ion 117.10 (116.80 to 117.80): V
 Ion 82.10 (81.80 to 82.80): VL0
 Ion 119.10 (118.80 to 119.80): V



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.202 ppbv
 RT: 14.42 min Scan# 3617
 Delta R.T.: 0.03 min
 Lab File: VL039527.D
 Acq: 25 Jul 2022 22:07

Tgt Ion: 95 Resp: 2057185

Ion	Ratio	Lower	Upper
95	100		
174	71.4	55.9	83.9
175	5.4	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

