

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060322\
 Data File : VL039158.D
 Acq On : 3 Jun 2022 18:06
 Operator : SY/AP
 Sample : VIBLK
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VIBLK

Quant Time: Jun 04 00:16:20 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	5.68	49	1294601	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	3639624	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	3118185	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	2310630	8.96	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	89.60%

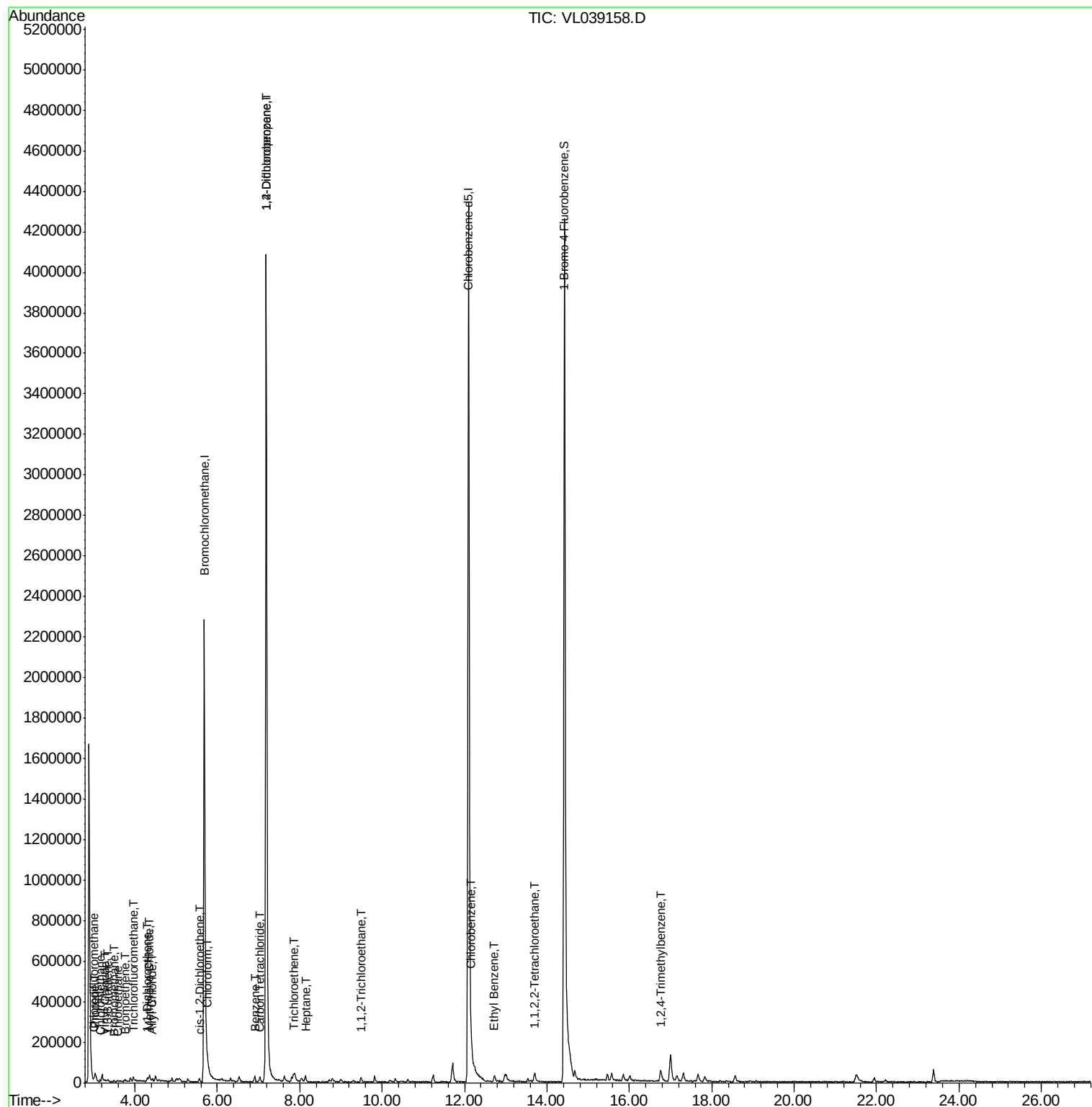
Target Compounds					Ovalue
3) Chlorodifluoromethane	3.00	51	13851	0.084	ppbv 93
4) Chloromethane	3.15	50	7339	0.087	ppbv 95
5) Vinyl Chloride	3.27	62	2381	0.030	ppbv # 44
6) Bromomethane	3.49	94	2450	0.063	ppbv 91
7) Chloroethane	3.57	64	2164	0.079	ppbv # 68
9) Propene	3.02	41	9170	0.128	ppbv # 54
10) Heptane	8.14	43	8720	0.052	ppbv # 37
11) Trichlorofluoromethane	3.96	101	13759	0.067	ppbv 87
14) Bromoethene	3.75	108	2727	0.045	ppbv # 3
16) 1,3-Butadiene	3.34	39	3683	0.051	ppbv # 8
18) 1,1-Dichloroethene	4.30	96	3712	0.061	ppbv # 33
20) Methylene Chloride	4.36	84	7853	0.138	ppbv # 75
21) Allyl Chloride	4.42	41	3297	0.036	ppbv # 20
29) Chloroform	5.76	83	9908	0.044	ppbv 93
31) cis-1,2-Dichloroethene	5.57	61	7029	0.052	ppbv # 85
35) Carbon Tetrachloride	7.04	117	10401	0.039	ppbv # 92
36) Benzene	6.91	78	21351	0.072	ppbv # 86
38) Trichloroethene	7.85	130	4821	0.036	ppbv # 36
39) 1,2-Dichloropropane	7.19	63	878214	7.472	ppbv # 24
47) 1,1,2-Trichloroethane	9.49	97	3927	0.032	ppbv # 51
57) Chlorobenzene	12.16	112	10022	0.043	ppbv # 89
58) Ethyl Benzene	12.72	91	17902	0.042	ppbv 94
63) 1,1,2,2-Tetrachloroethane	13.69	83	7000	0.035	ppbv # 13
74) 1,2,4-Trimethylbenzene	16.78	105	13889	0.033	ppbv # 44

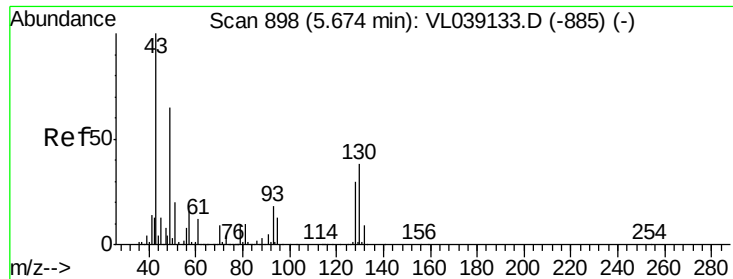
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: VIBLK

Acq: 3 Jun 2022 18:00

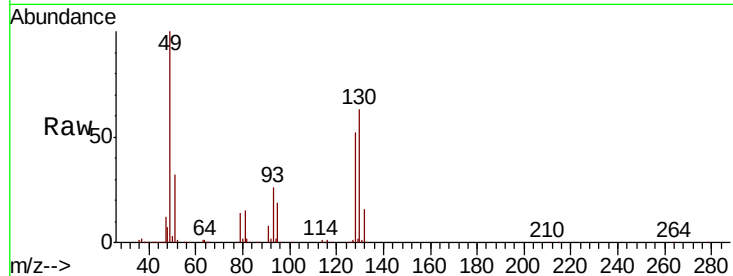
Tot Ion: 49 Resp: 1294601

Ion Ratio Lower Upper

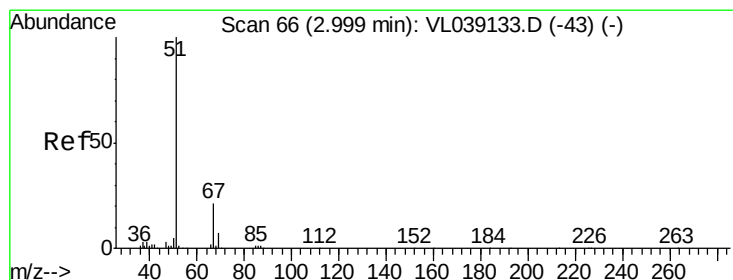
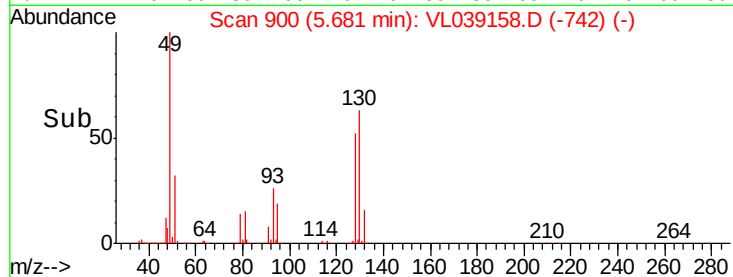
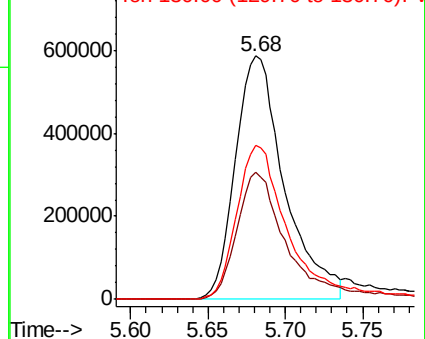
49 100

128 55.3 24.7 74.1

130 70.6 31.4 94.0



Abundance Ion 49.10 (48.80 to 49.80): VL0
800000
Ion 128.00 (127.70 to 128.70): V
Ion 130.00 (129.70 to 130.70): V



#3

Chlorodifluoromethane

Concen: 0.084 ppbv

RT: 3.00 min Scan# 67

Delta R.T. 0.00 min

Lab File: VL039158.D

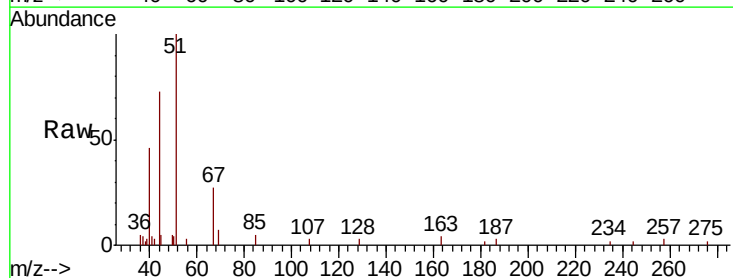
Acq: 3 Jun 2022 18:06

Tgt Ion: 51 Resp: 13851

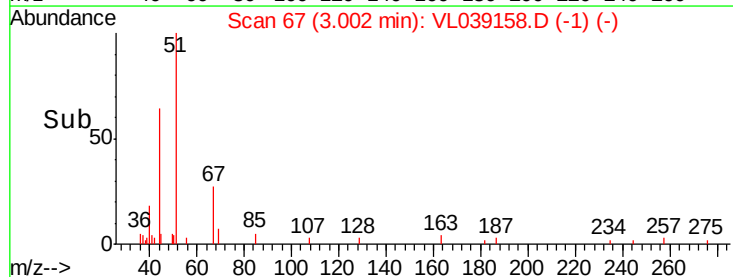
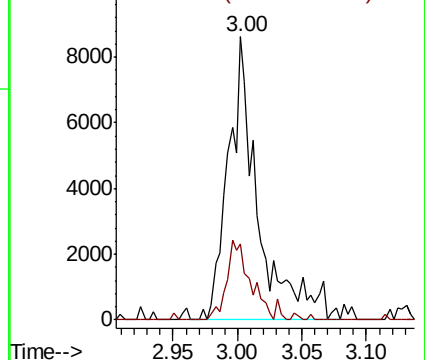
Ion Ratio Lower Upper

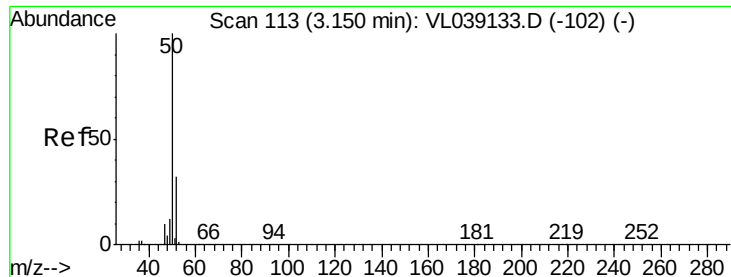
51 100

67 23.5 16.2 24.4



Abundance Ion 51.00 (50.70 to 51.70): VL0
10000
Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.087 ppbv

RT: 3.15 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

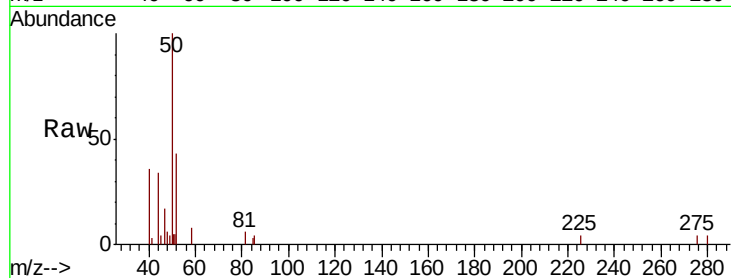
Acq: 3 Jun 2022 18:00

Tot Ion: 50 Resp: 7339

Ion Ratio Lower Upper

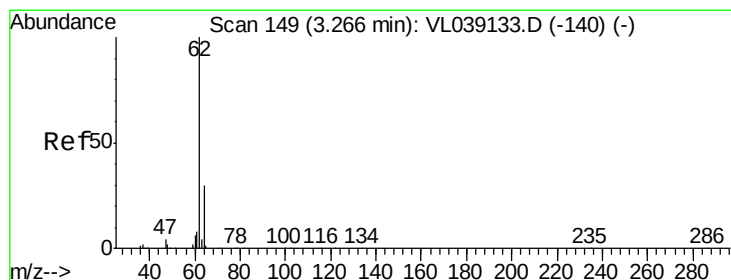
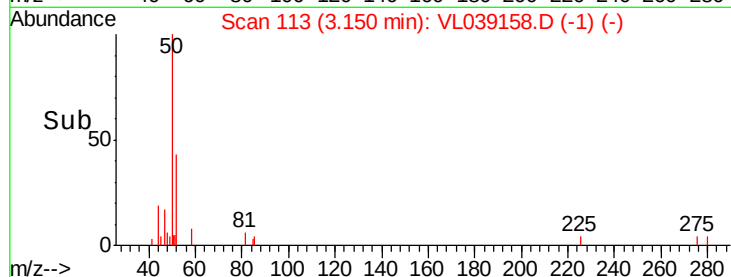
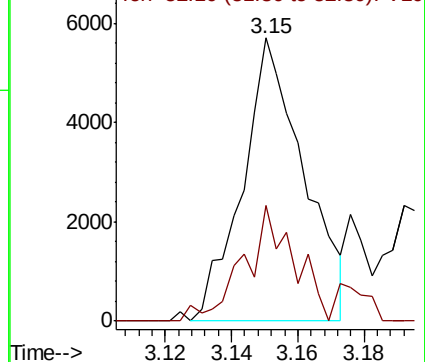
50 100

52 35.4 25.9 38.9



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#5

Vinyl Chloride

Concen: 0.030 ppbv

RT: 3.27 min Scan# 151

Delta R.T. 0.01 min

Lab File: VL039158.D

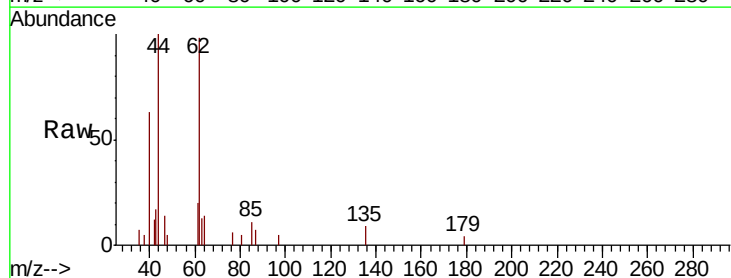
Acq: 3 Jun 2022 18:06

Tgt Ion: 62 Resp: 2381

Ion Ratio Lower Upper

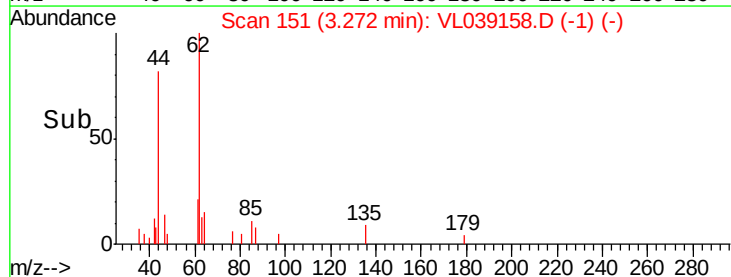
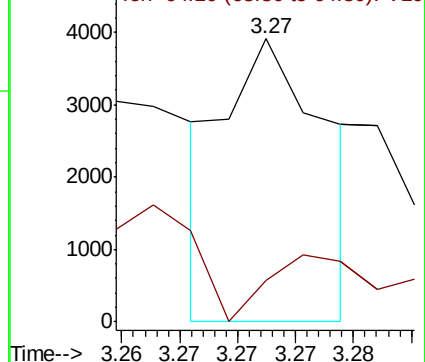
62 100

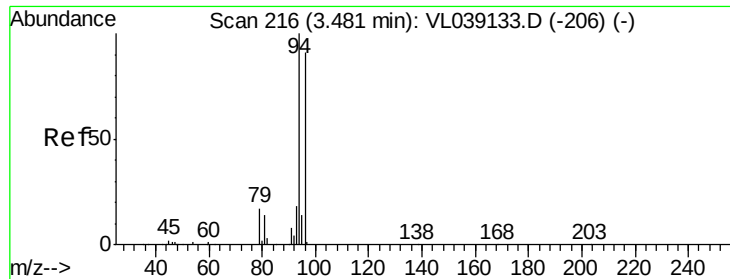
64 0.0 24.2 36.2#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0





#6

Bromomethane

Concen: 0.063 ppbv

RT: 3.49 Instrument:

Delta R.T. MSVOA.L

Lab File: ClientSampleId:

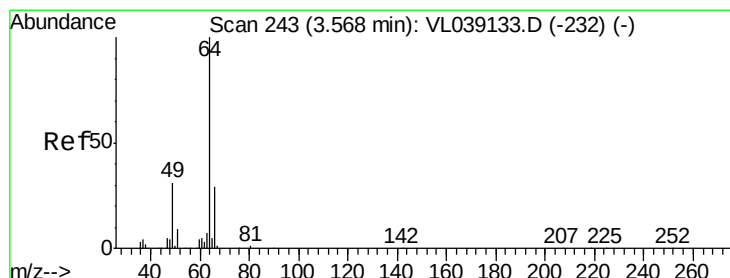
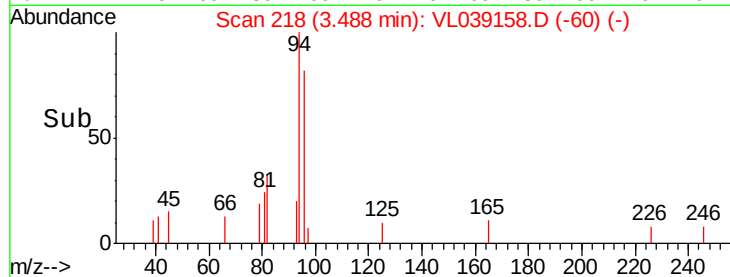
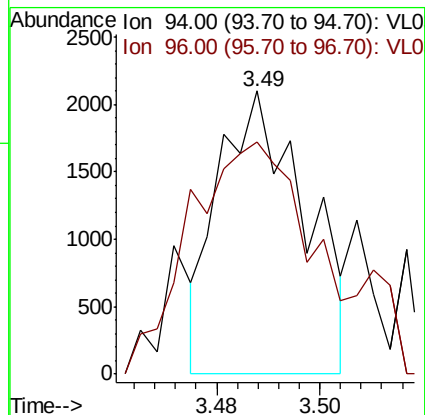
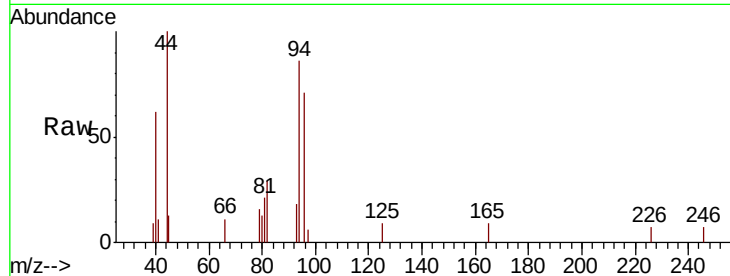
Acq: 3 Jun 2022 18:00

Tot Ion: 94 Resp: 2450

Ion Ratio Lower Upper

94 100

96 83.0 73.0 109.4



#7

Chloroethane

Concen: 0.079 ppbv

RT: 3.57 min Scan# 244

Delta R.T. 0.00 min

Lab File: VL039158.D

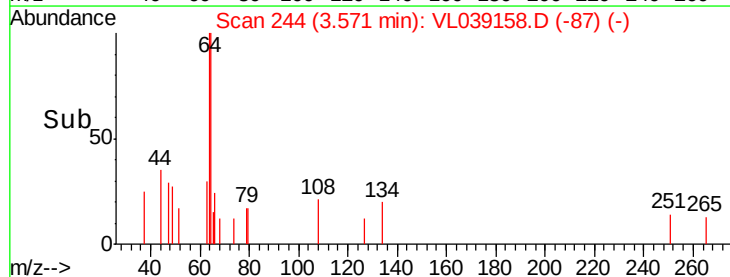
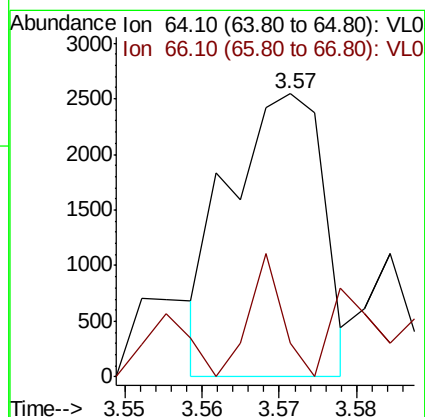
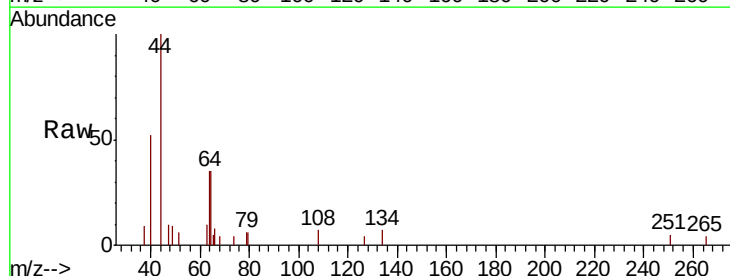
Acq: 3 Jun 2022 18:06

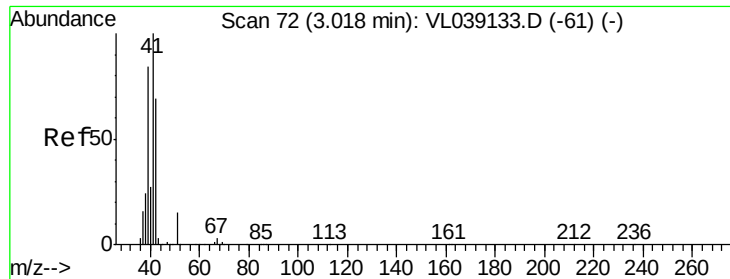
Tgt Ion: 64 Resp: 2164

Ion Ratio Lower Upper

64 100

66 12.1 23.6 35.4#





#9

Propene

Concen: 0.128 ppbv

RT: 3.02 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

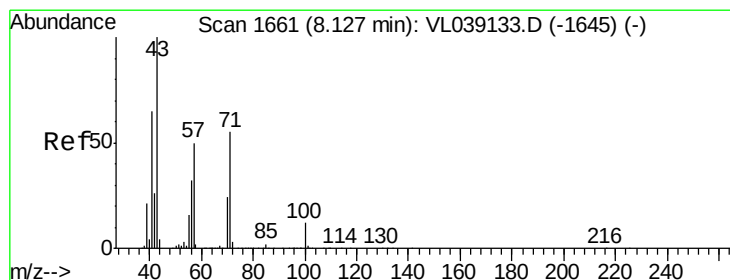
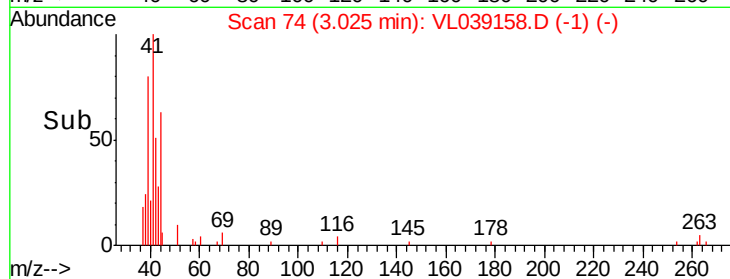
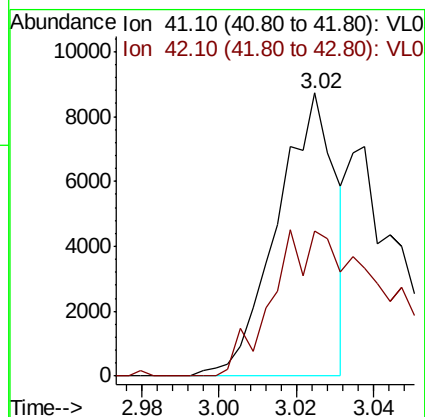
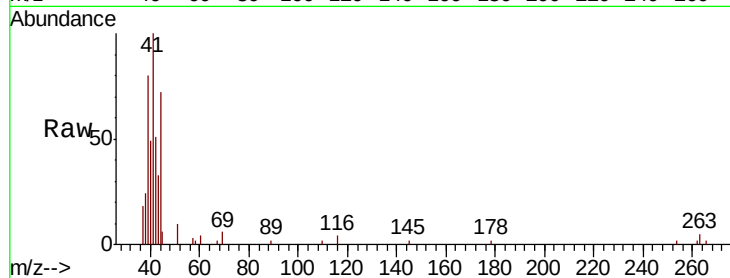
Acq: 3 Jun 2022 18:00

Tot Ion: 41 Resp: 9170

Ion Ratio Lower Upper

41 100

42 106.7 55.4 83.2#



#10

Heptane

Concen: 0.052 ppbv

RT: 8.14 min Scan# 1664

Delta R.T. 0.01 min

Lab File: VL039158.D

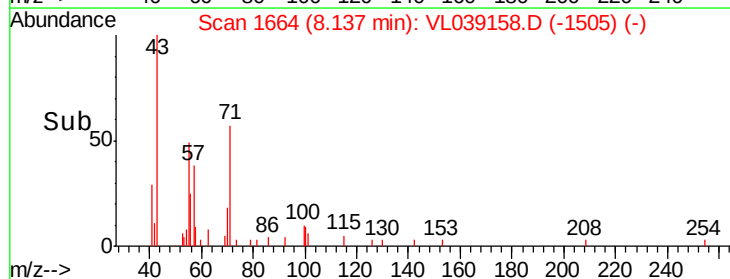
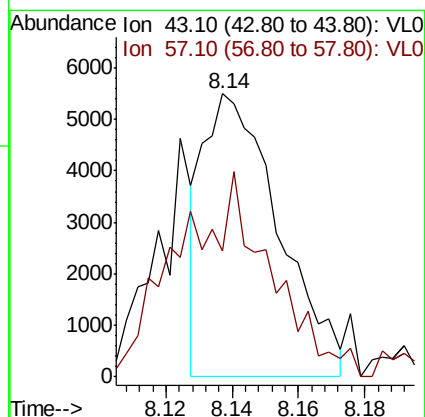
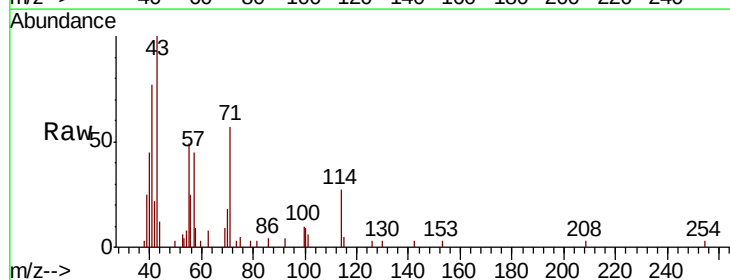
Acq: 3 Jun 2022 18:06

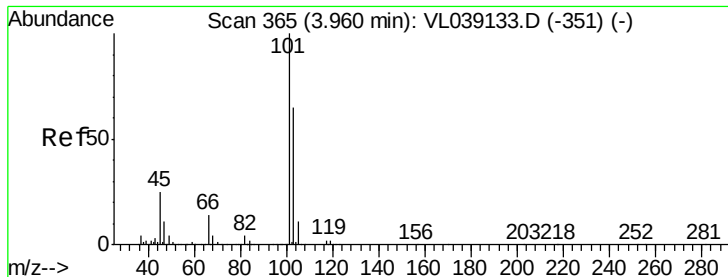
Tgt Ion: 43 Resp: 8720

Ion Ratio Lower Upper

43 100

57 96.3 41.4 62.2#





#11

Trichlorofluoromethane

Concen: 0.067 ppbv

RT: 3.96 Instrument: MSVOA_1

Delta R.T. 0.00

Lab File: ClientSampleId: VIBLK

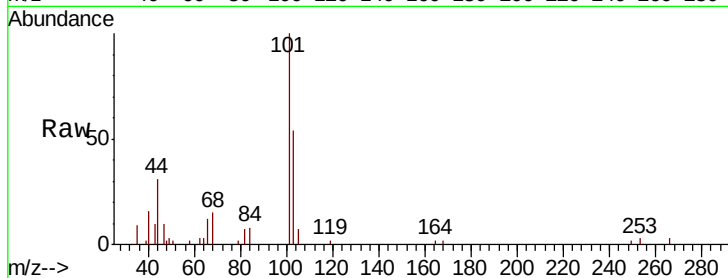
Acq: 3 Jun 2022 18:00

Tot Ion:101 Resp: 13759

Ion Ratio Lower Upper

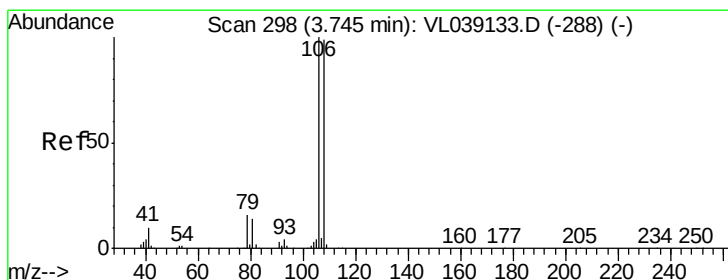
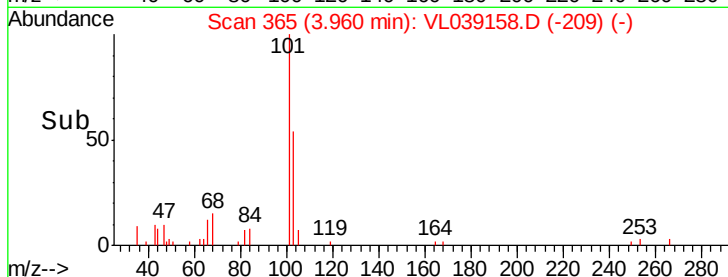
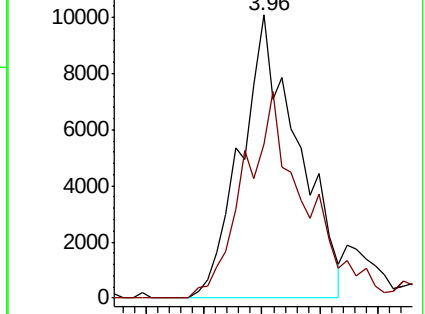
101 100

103 54.4 51.7 77.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#14

Bromoethene

Concen: 0.045 ppbv

RT: 3.75 min Scan# 299

Delta R.T. 0.00 min

Lab File: VL039158.D

Acq: 3 Jun 2022 18:06

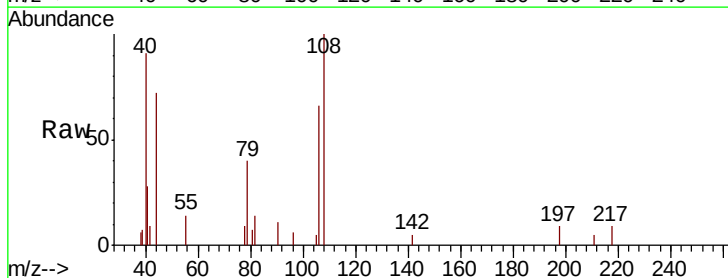
Tgt Ion:108 Resp: 2727

Ion Ratio Lower Upper

108 100

106 0.0 88.4 132.6#

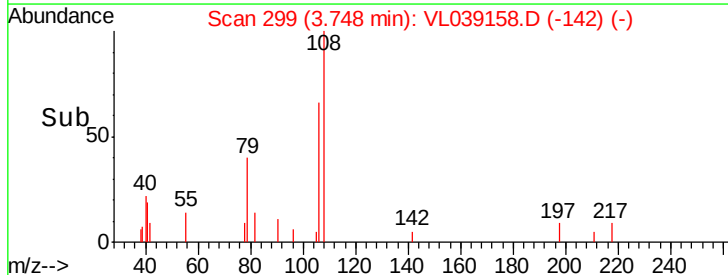
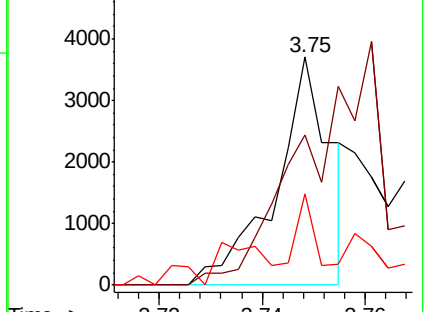
79 36.3 13.4 20.2#

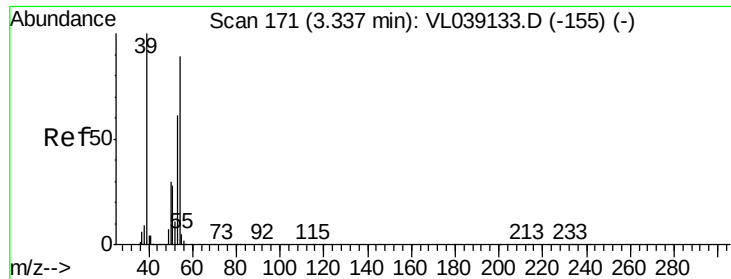


Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

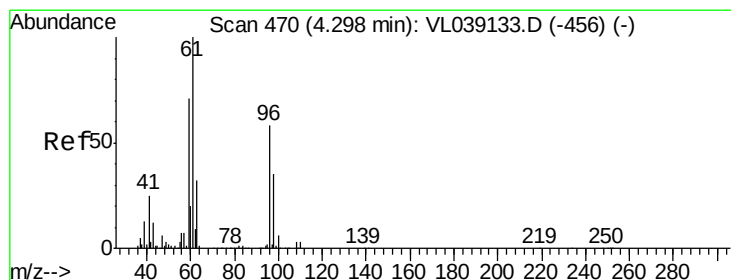
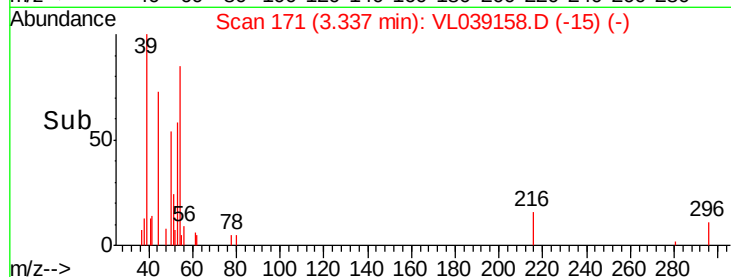
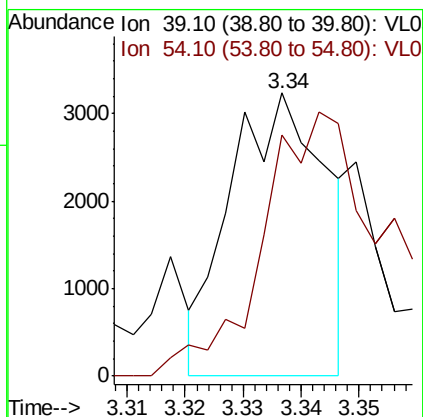
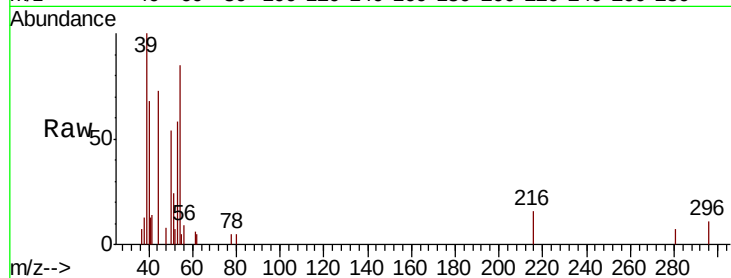
Ion 79.00 (78.70 to 79.70): VLO





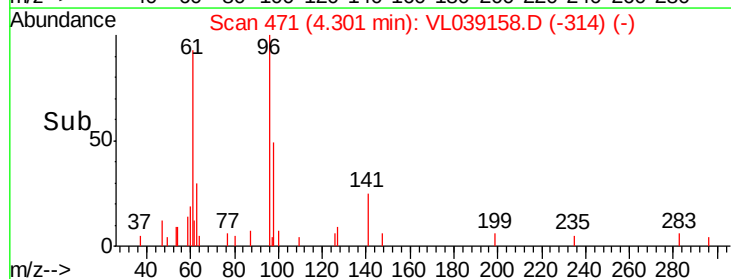
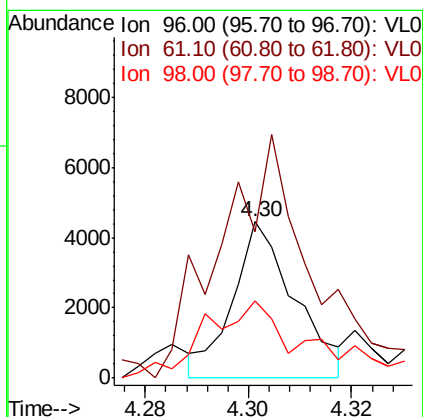
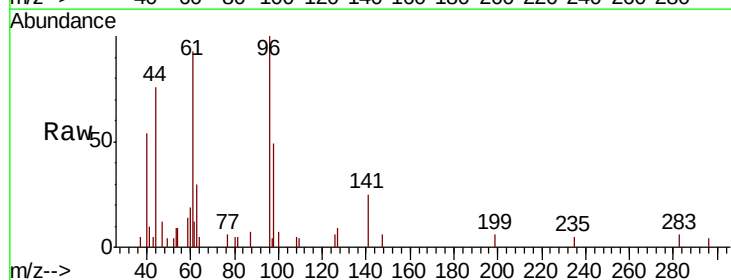
#16
 1,3-Butadiene
 Concen: 0.051 ppbv
 RT: 3.34 Instrument: MSVOA_1
 Delta R.T. ClientSampleId:
 Lab File: VIBLK
 Acq: 3 Jun 2022 18:00

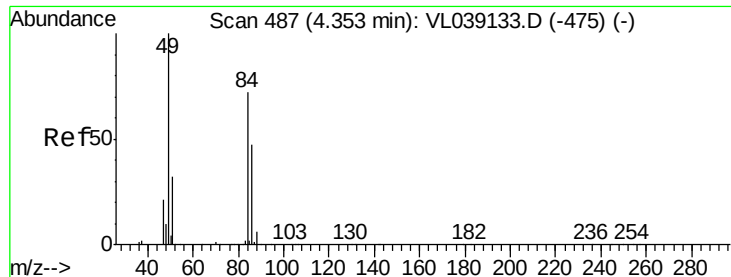
Tot Ion: 39 Resp: 3683
 Ion Ratio Lower Upper
 39 100
 54 0.0 65.8 98.6#



#18
 1,1-Dichloroethene
 Concen: 0.061 ppbv
 RT: 4.30 min Scan# 471
 Delta R.T. 0.00 min
 Lab File: VL039158.D
 Acq: 3 Jun 2022 18:06

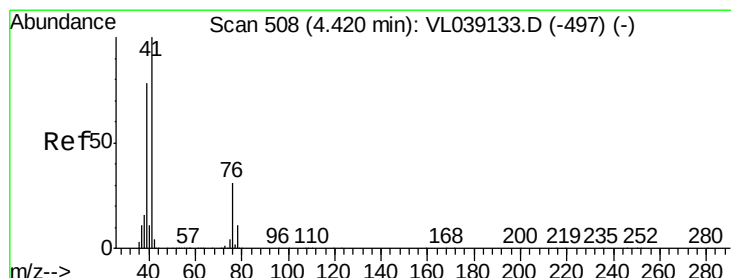
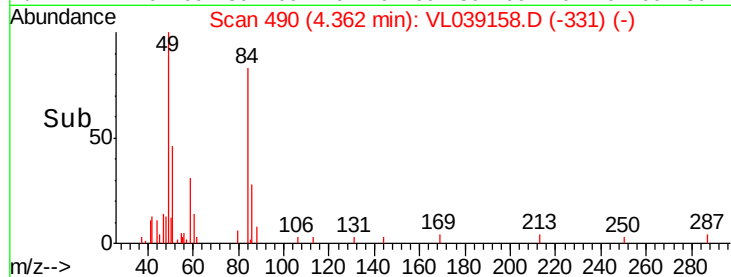
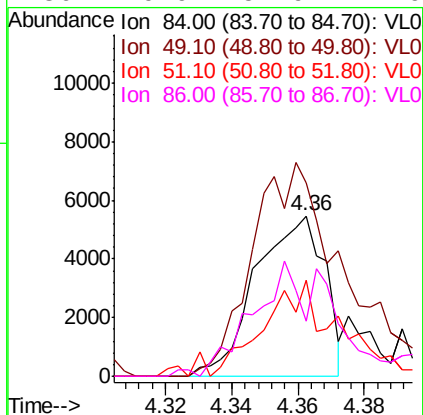
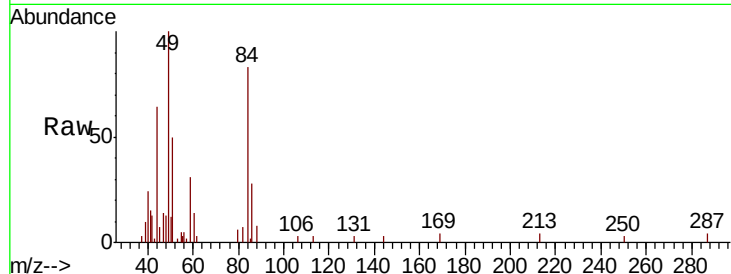
Tgt Ion: 96 Resp: 3712
 Ion Ratio Lower Upper
 96 100
 61 58.0 138.4 207.6#
 98 44.4 47.8 71.8#





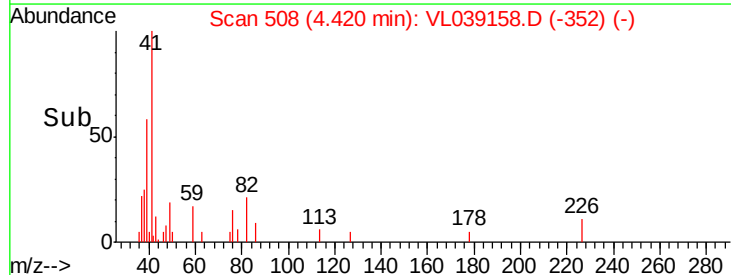
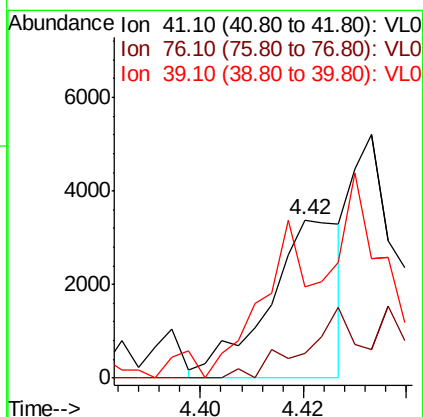
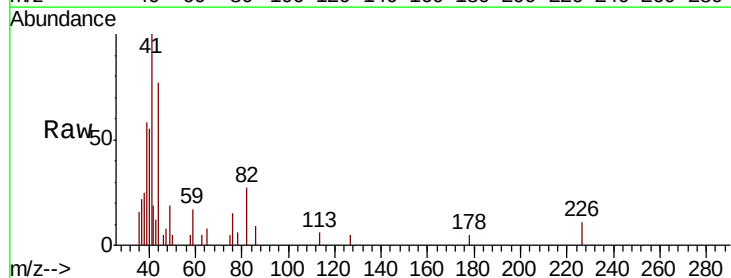
#20
Methvlene Chloride
Concen: 0.138 ppbv
RT: 4.36
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 3 Jun 2022 18:00

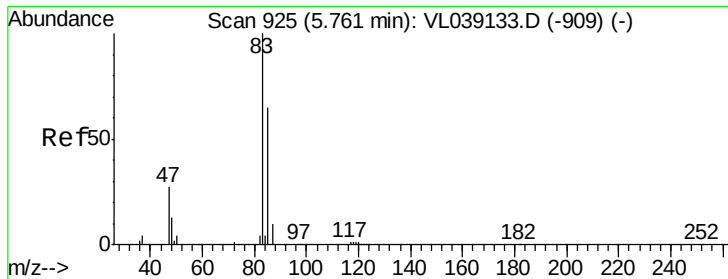
Tot Ion: 84 Resp: 7853
Ion Ratio Lower Upper
84 100
49 120.1 111.1 166.7
51 59.6 35.3 52.9#
86 29.9 51.9 77.9#



#21
Allyl Chloride
Concen: 0.036 ppbv
RT: 4.42 min Scan# 508
Delta R.T. 0.00 min
Lab File: VL039158.D
Acq: 3 Jun 2022 18:06

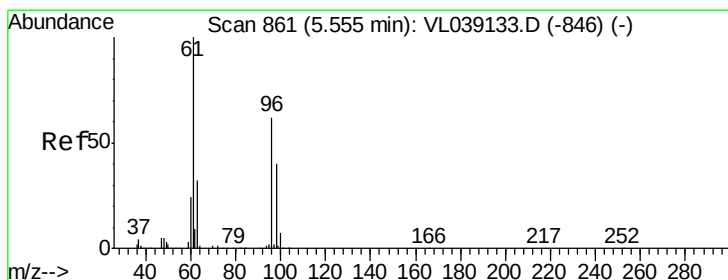
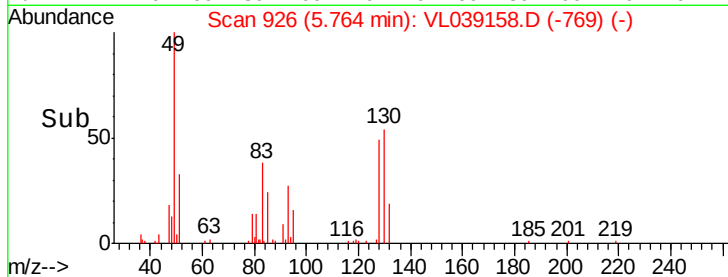
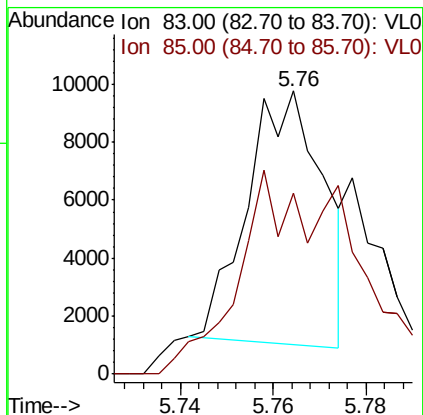
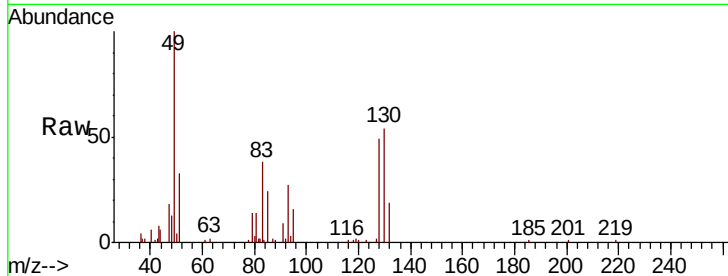
Tgt Ion: 41 Resp: 3297
Ion Ratio Lower Upper
41 100
76 0.0 24.2 36.2#
39 0.0 62.2 93.2#





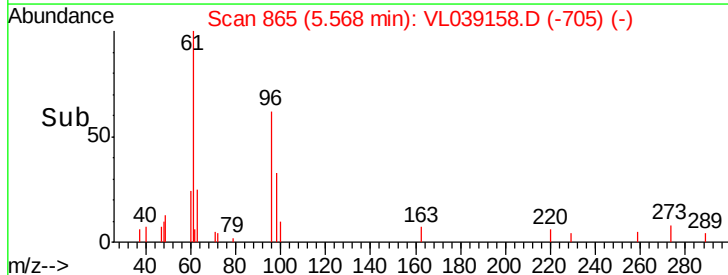
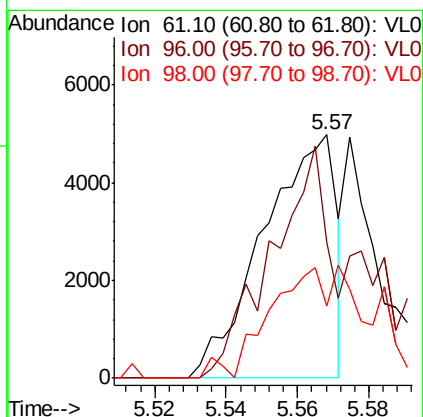
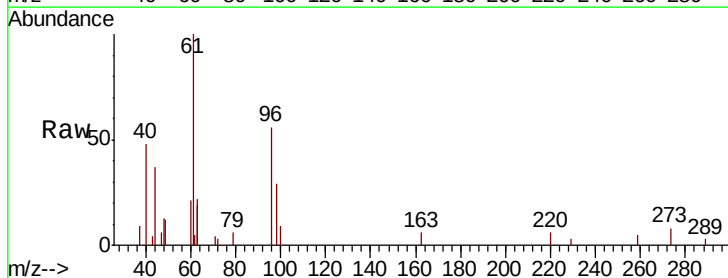
#29
Chloroform
Concen: 0.044 ppbv
RT: 5.76 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 3 Jun 2022 18:00

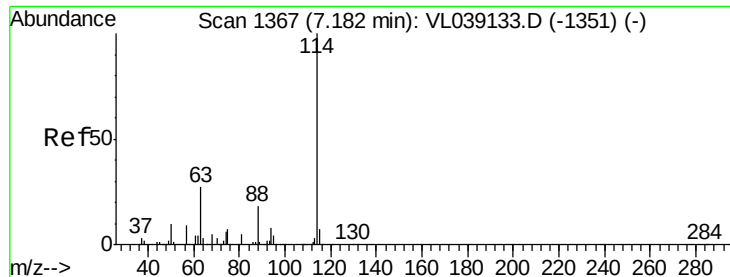
Tot Ion: 83 Resp: 9908
Ion Ratio Lower Upper
83 100
85 60.1 52.4 78.6



#31
cis-1,2-Dichloroethene
Concen: 0.052 ppbv
RT: 5.57 min Scan# 865
Delta R.T. 0.01 min
Lab File: VL039158.D
Acq: 3 Jun 2022 18:06

Tgt Ion: 61 Resp: 7029
Ion Ratio Lower Upper
61 100
96 52.9 49.9 74.9
98 28.0 32.0 48.0#

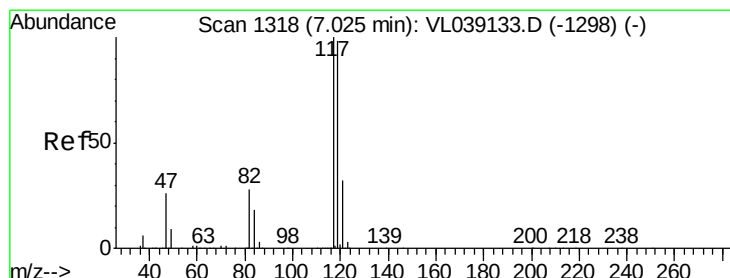
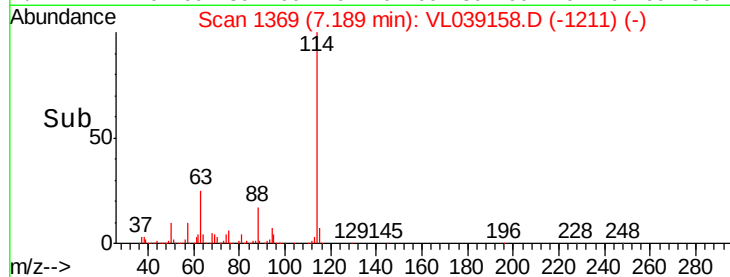
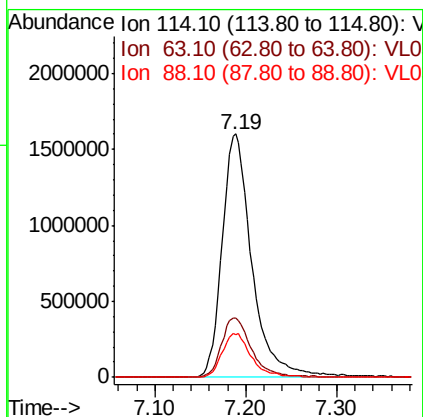
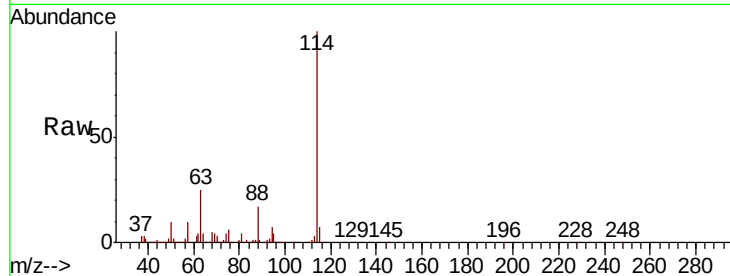




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19
 Delta R.T.: MSVOA_L
 Lab File: ClientSampleId :
 Acq: 3 Jun 2022 18:00

Tot Ion:114 Resp: 3639624

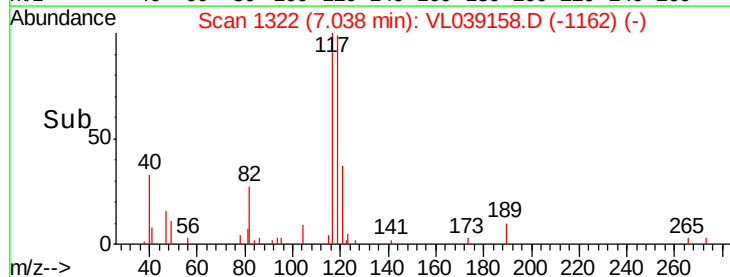
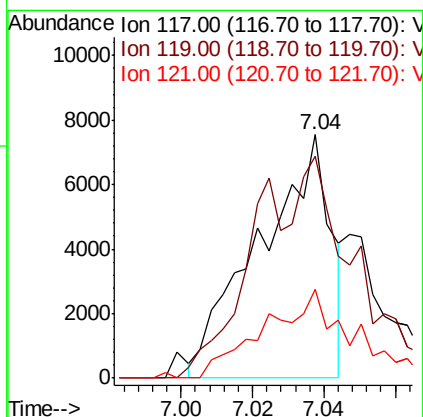
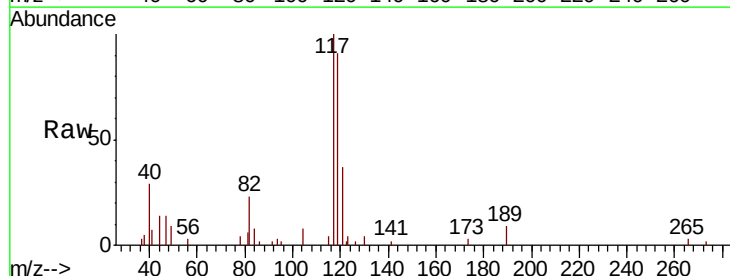
Ion	Ratio	Lower	Upper
114	100		
63	25.2	21.7	32.5
88	17.9	14.8	22.2

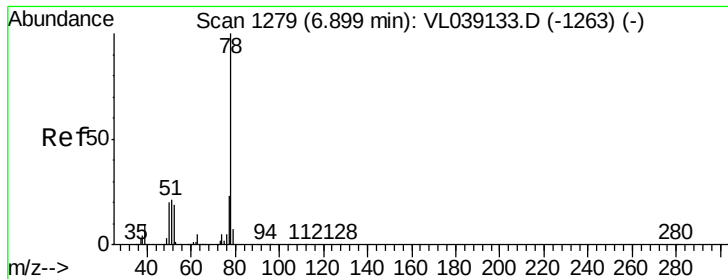


#35
 Carbon Tetrachloride
 Concen: 0.039 ppbv
 RT: 7.04 min Scan# 1322
 Delta R.T.: 0.01 min
 Lab File: VL039158.D
 Acq: 3 Jun 2022 18:06

Tgt Ion:117 Resp: 10401

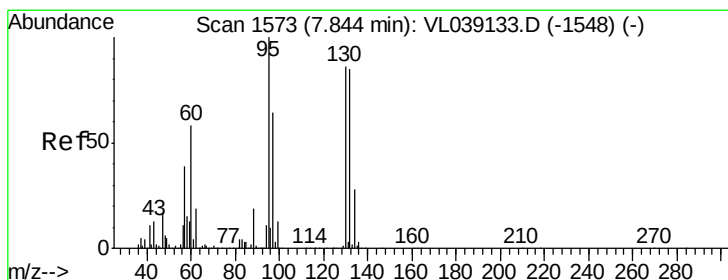
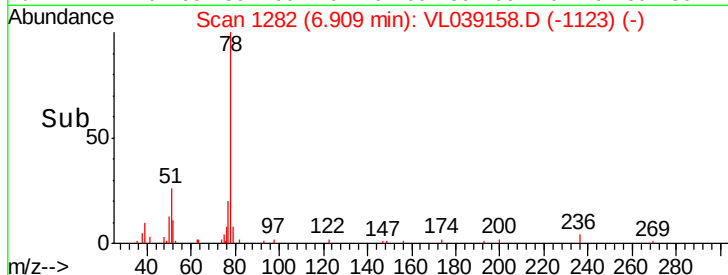
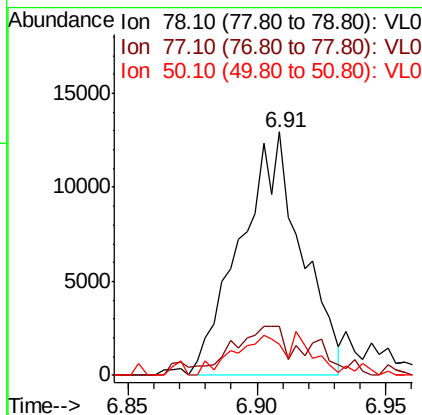
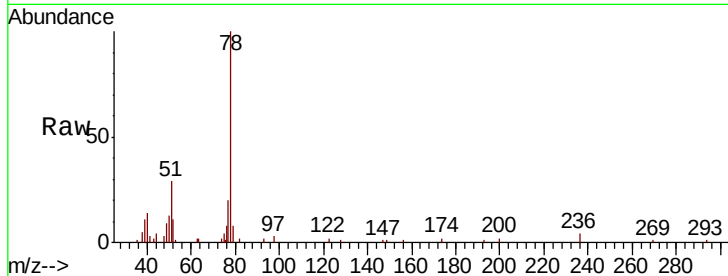
Ion	Ratio	Lower	Upper
117	100		
119	92.3	78.6	118.0
121	38.9	25.4	38.0#





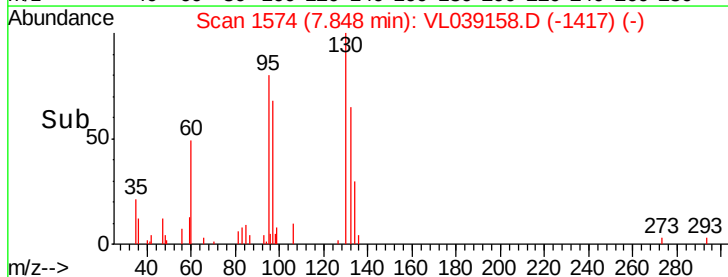
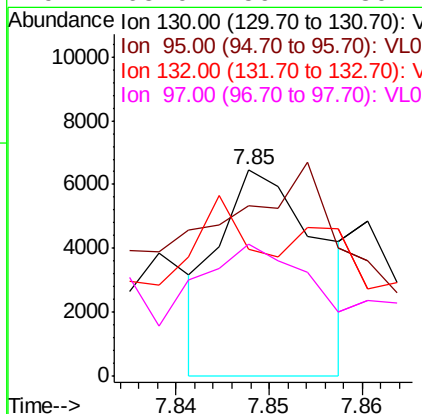
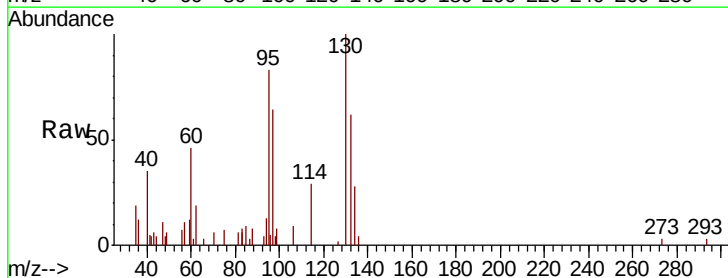
#36
Benzene
Concen: 0.072 ppbv
RT: 6.91
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 3 Jun 2022 18:00

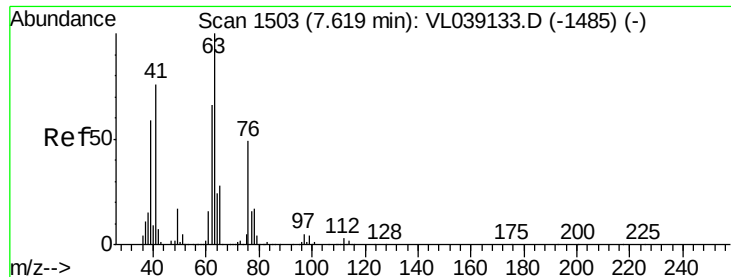
Tot Ion: 78 Resp: 21351
Ion Ratio Lower Upper
78 100
77 16.8 18.6 27.8#
50 13.0 15.8 23.8#



#38
Trichloroethene
Concen: 0.036 ppbv
RT: 7.85 min Scan# 1574
Delta R.T. 0.00 min
Lab File: VL039158.D
Acq: 3 Jun 2022 18:06

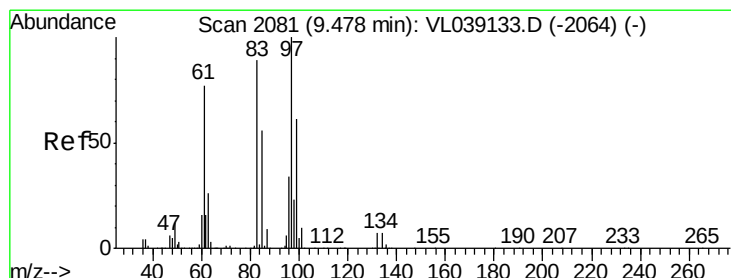
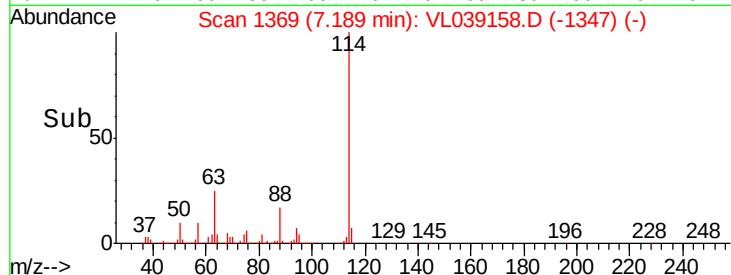
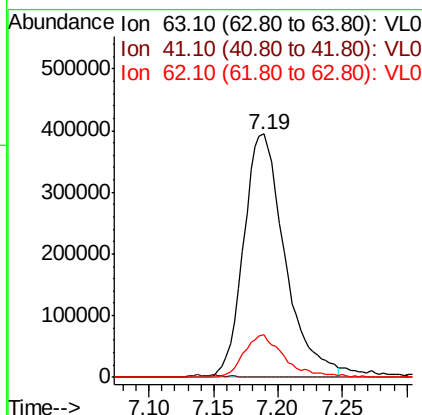
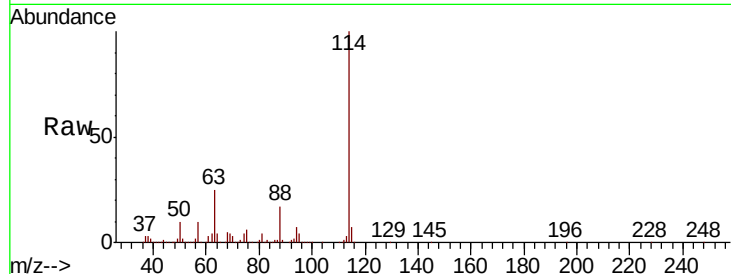
Tgt Ion: 130 Resp: 4821
Ion Ratio Lower Upper
130 100
95 40.5 93.3 139.9#
132 1.7 79.0 118.4#
97 65.0 59.4 89.2





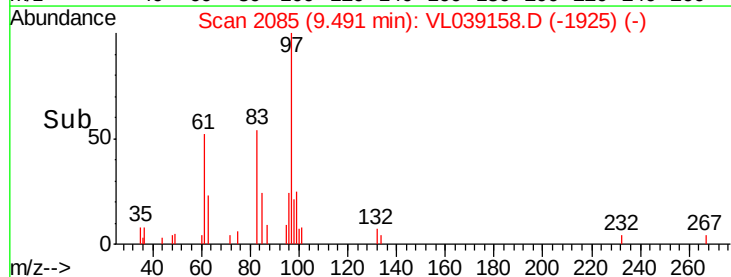
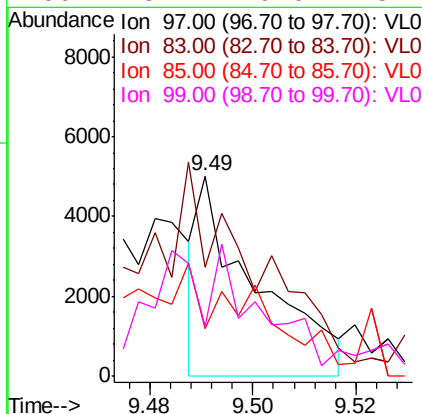
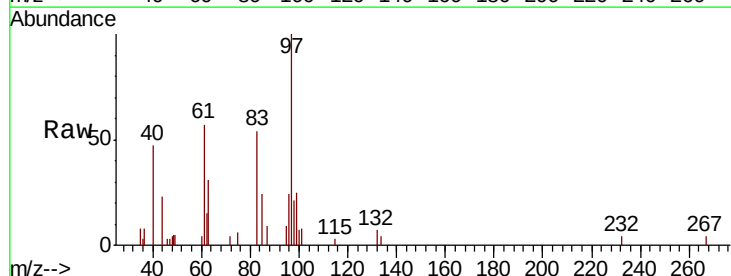
#39
 1,2-Dichloropropane
 Concen: 7.472 ppbv
 RT: 7.19
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 3 Jun 2022 18:00

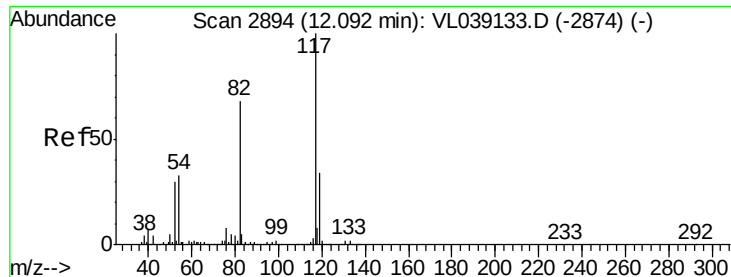
Tot Ion	63	Resp	878214
Ion Ratio	Lower	Upper	
63	100		
41	0.0	60.8	91.2#
62	17.8	52.9	79.3#



#47
 1,1,2-Trichloroethane
 Concen: 0.032 ppbv
 RT: 9.49 min Scan# 2085
 Delta R.T. 0.01 min
 Lab File: VL039158.D
 Acq: 3 Jun 2022 18:06

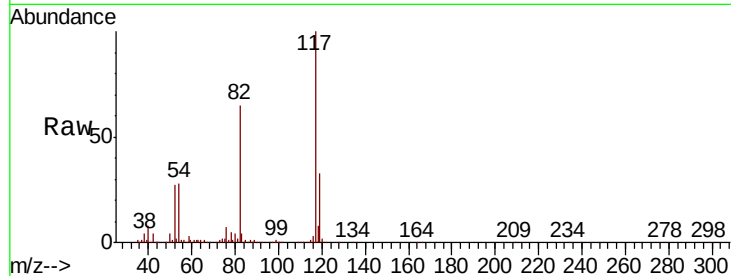
Tgt Ion	97	Resp	3927
Ion Ratio	Lower	Upper	
97	100		
83	49.7	71.6	107.4#
85	22.1	44.8	67.2#
99	15.1	49.0	73.4#



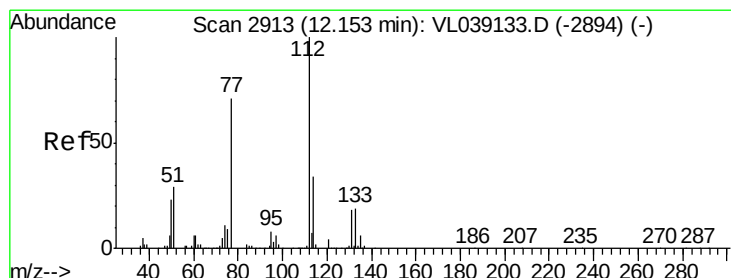
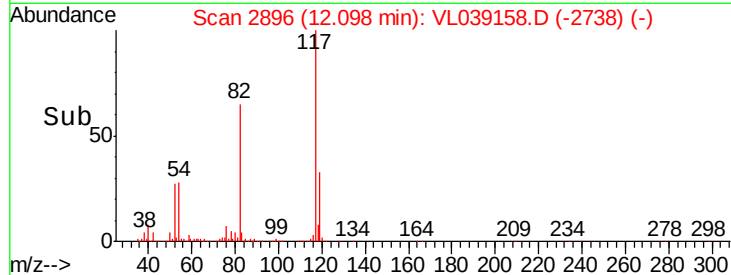
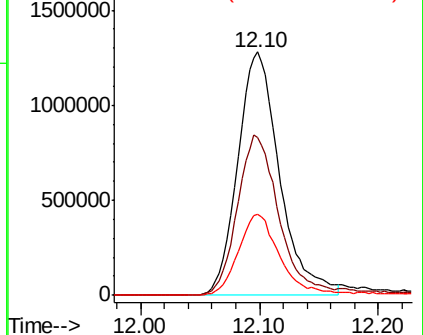


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId:
Acq: 3 Jun 2022 18:00

Tot Ion:117 Resp: 3118185
Ion Ratio Lower Upper
117 100
82 69.3 55.1 82.7
119 34.4 24.7 37.1

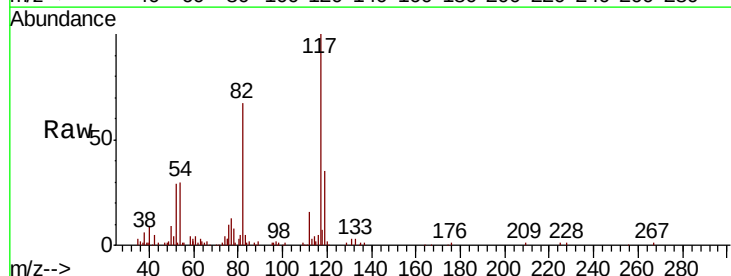


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

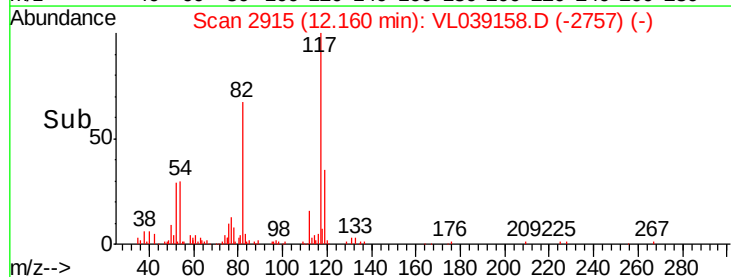
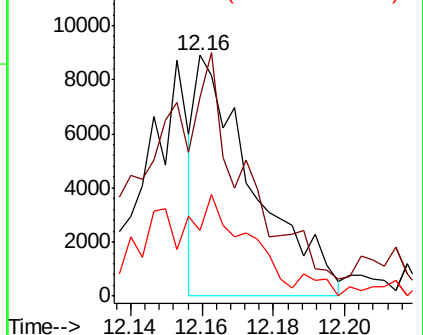


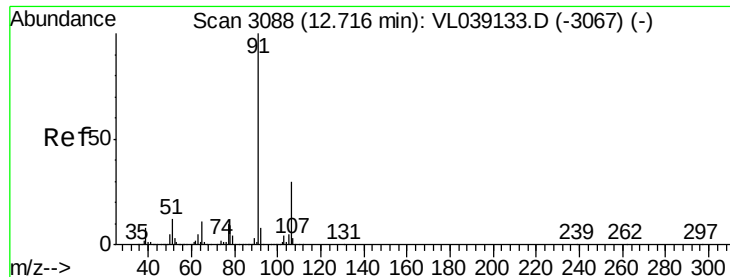
#57
Chlorobenzene
Concen: 0.043 ppbv
RT: 12.16 min Scan# 2915
Delta R.T. 0.01 min
Lab File: VL039158.D
Acq: 3 Jun 2022 18:06

Tgt Ion:112 Resp: 10022
Ion Ratio Lower Upper
112 100
77 80.7 56.5 84.7
114 29.0 30.3 37.1#



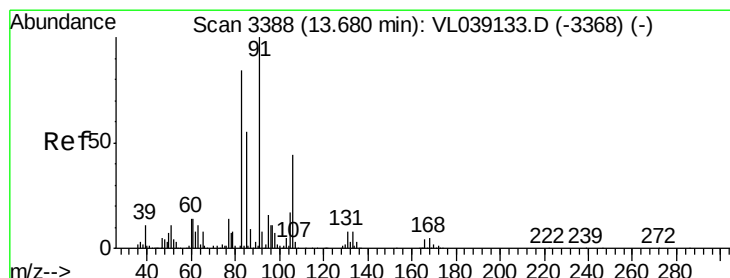
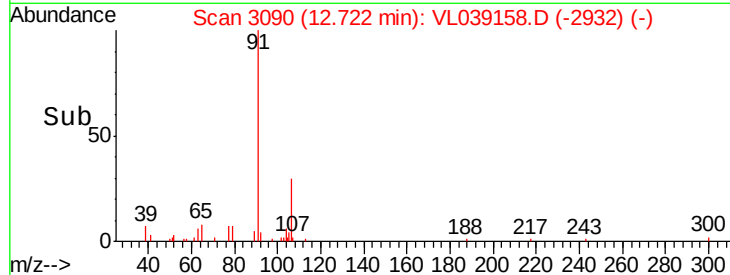
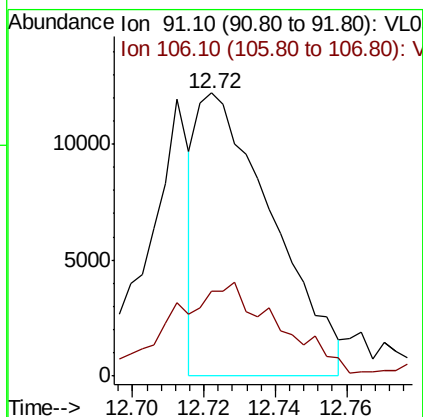
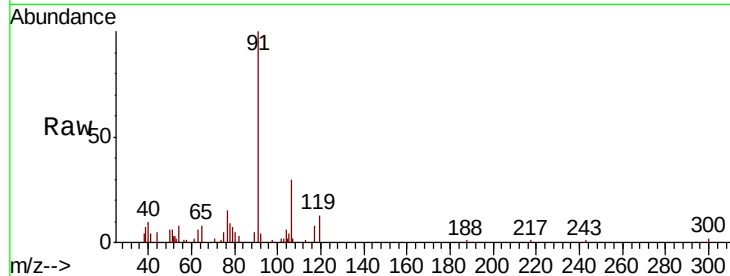
Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): VL0
Ion 114.10 (113.80 to 114.80): V





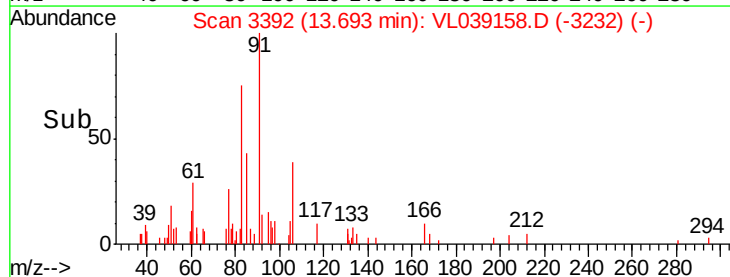
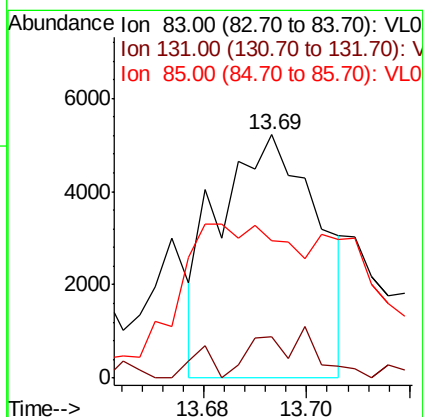
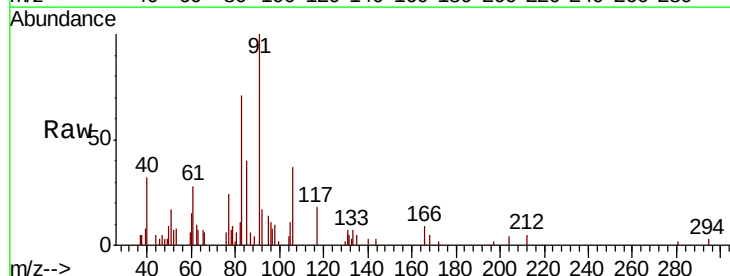
#58
Ethyl Benzene
Concen: 0.042 ppbv
RT: 12.72
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 3 Jun 2022 18:00

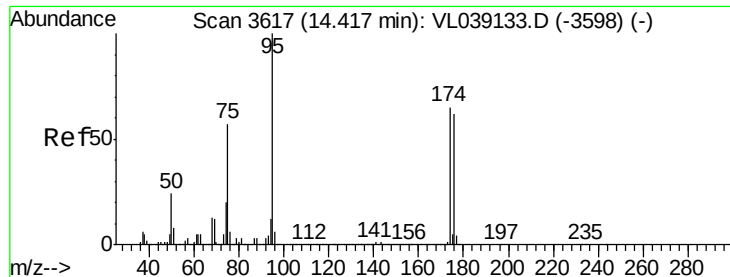
Tot Ion: 91 Resp: 17902
Ion Ratio Lower Upper
91 100
106 27.0 24.2 36.4



#63
1,1,2,2-Tetrachloroethane
Concen: 0.035 ppbv
RT: 13.69 min Scan# 3392
Delta R.T. 0.01 min
Lab File: VL039158.D
Acq: 3 Jun 2022 18:06

Tgt Ion: 83 Resp: 7000
Ion Ratio Lower Upper
83 100
131 18.0 4.8 14.3#
85 142.5 33.0 99.0#

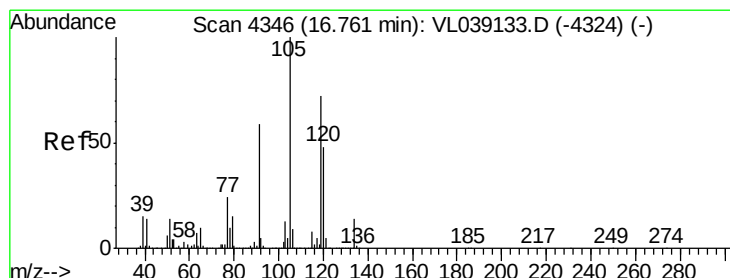
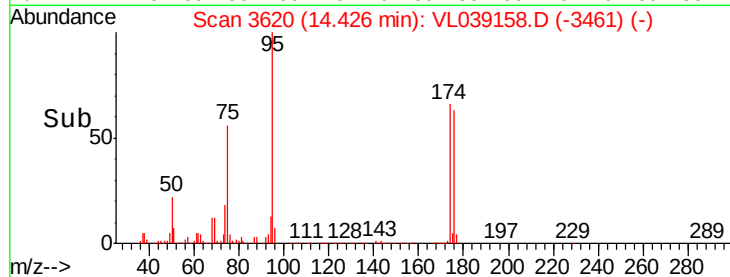
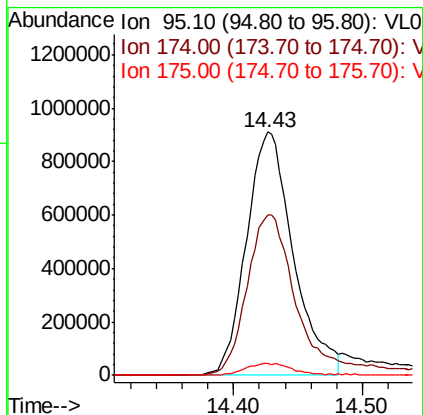
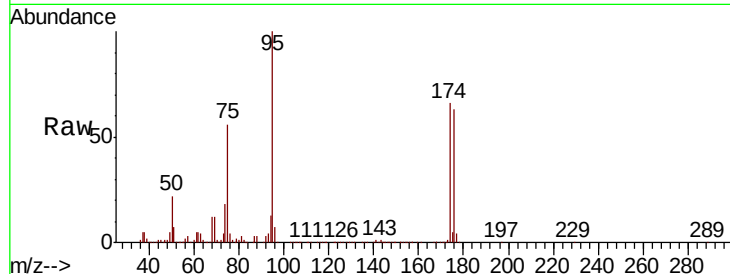




#68
 1-Bromo-4-Fluorobenzene
 Concen: 8.963 ppbv
 RT: 14.43 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 3 Jun 2022 18:00

Tot Ion: 95 Resp: 2310630

Ion	Ratio	Lower	Upper
95	100		
174	74.7	53.8	80.8
175	5.5	4.1	6.1



#74
 1,2,4-Trimethylbenzene
 Concen: 0.033 ppbv
 RT: 16.78 min Scan# 4352
 Delta R.T. 0.02 min
 Lab File: VL039158.D
 Acq: 3 Jun 2022 18:06

Tgt Ion: 105 Resp: 13889

Ion	Ratio	Lower	Upper
105	100		
120	24.1	38.1	57.1#
91	2.7	47.4	71.0#
77	0.0	19.5	29.3#

