

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121421\
 Data File : VL038179.D
 Acq On : 15 Dec 2021 8:23
 Operator : SY/AP
 Sample : VIBLK
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Dec 15 13:29:27 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Nov 18 13:16:09 2021
 QLast Update : Thu Nov 18 13:16:09 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.63	49	811151	10.00	ppbv	-0.04
33) 1,4-Difluorobenzene	7.13	114	2612907	10.00	ppbv	-0.05
55) Chlorobenzene-d5	12.03	117	2266058	10.00	ppbv	-0.05

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.36	95	1764857	10.80	ppbv	-0.05
Spiked Amount	10.000	Range	65 - 135	Recovery	=	108.00%

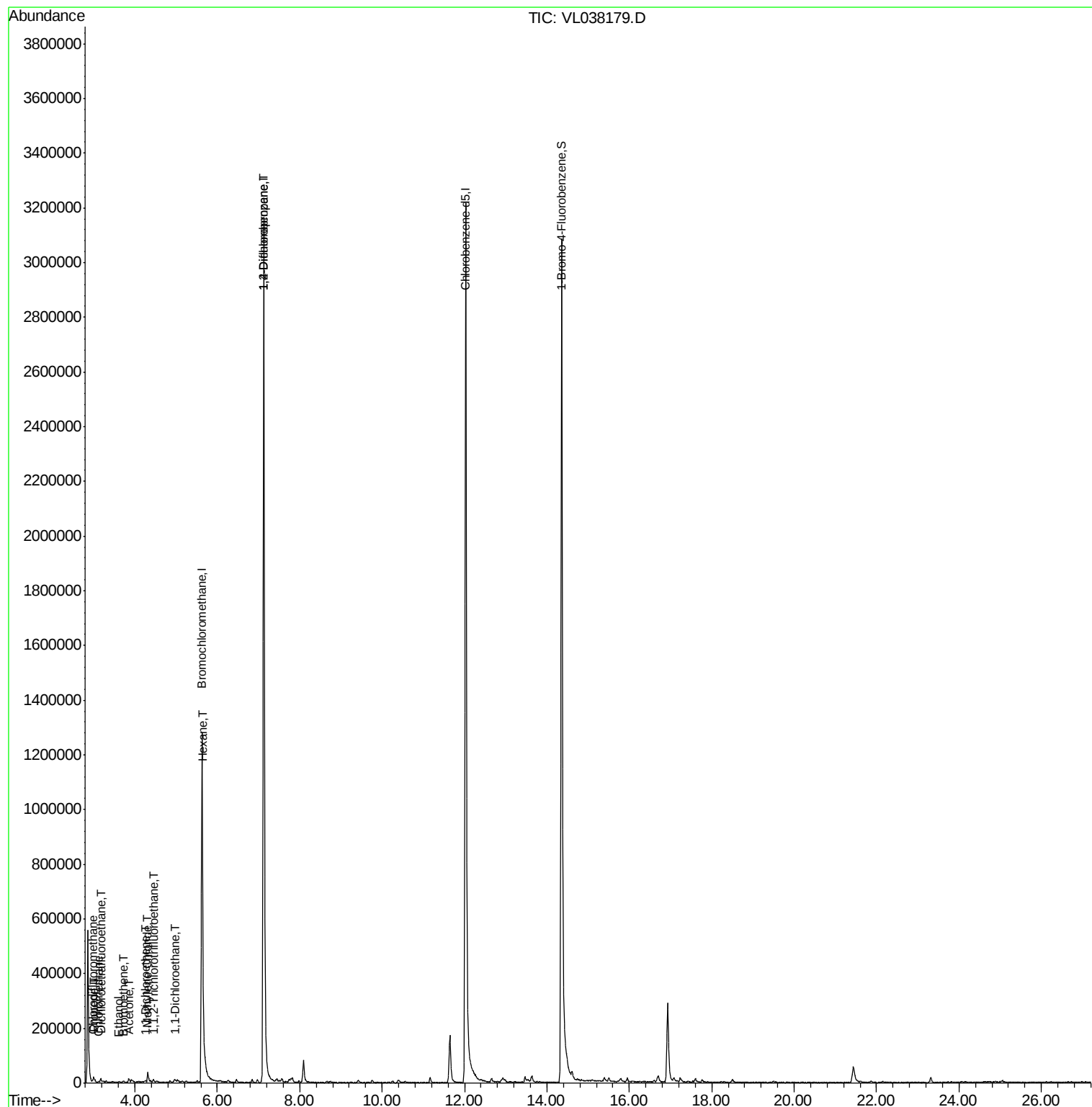
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.97	51	9328	0.055	ppbv	99
4) Chloromethane	3.12	50	2352	0.041	ppbv	95
8) Dichlorotetrafluoroethane	3.17	85	5229	0.039	ppbv	86
9) Propene	3.00	41	4263	0.068	ppbv #	49
12) 1,1,2-Trichlorotrifluoroet	4.45	101	3520	0.039	ppbv #	74
13) Ethanol	3.59	45	310	0.051	ppbv #	32
14) Bromoethene	3.71	108	1263	0.031	ppbv #	64
15) Acetone	3.85	43	16000	0.228	ppbv #	78
18) 1,1-Dichloroethene	4.25	96	1408	0.034	ppbv #	52
20) Methylene Chloride	4.31	84	12329	0.313	ppbv #	80
24) 1,1-Dichloroethane	4.97	63	3285	0.039	ppbv #	90
26) Hexane	5.65	57	3693	0.033	ppbv #	42
39) 1,2-Dichloropropane	7.13	63	709249	7.094	ppbv #	27

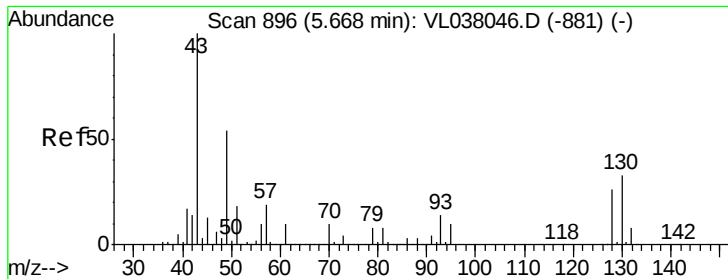
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Nov 18 13:16:09 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.63 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 15 Dec 2021 8:23

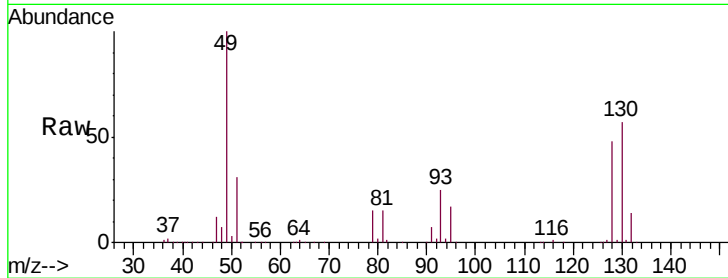
Tot Ion: 49 Resp: 811151

Ion Ratio Lower Upper

49 100

128 48.6 26.5 79.5

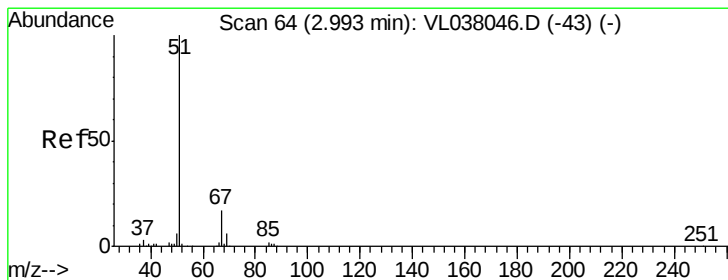
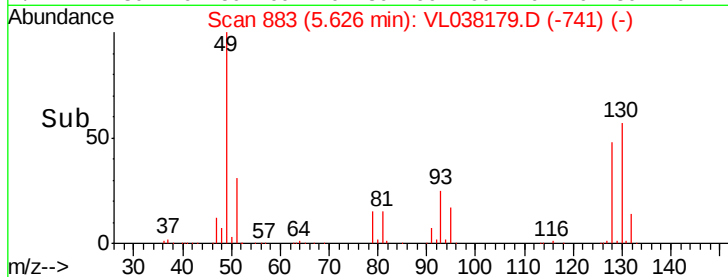
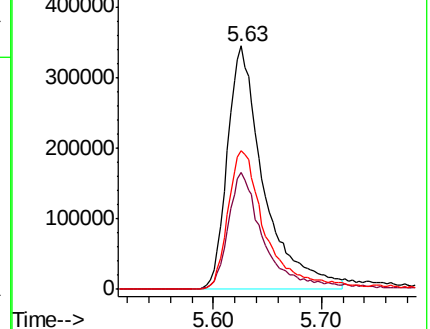
130 62.2 32.5 97.4



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: 0.055 ppbv

RT: 2.97 min Scan# 57

Delta R.T. -0.02 min

Lab File: VL038179.D

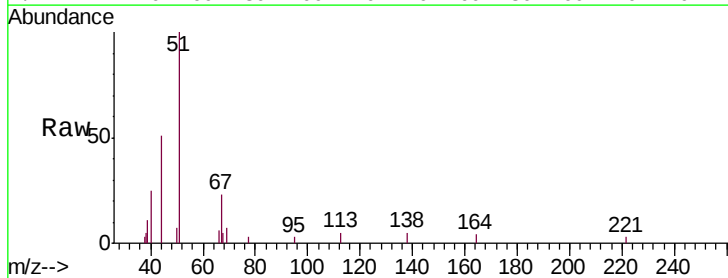
Acq: 15 Dec 2021 8:23

Tgt Ion: 51 Resp: 9328

Ion Ratio Lower Upper

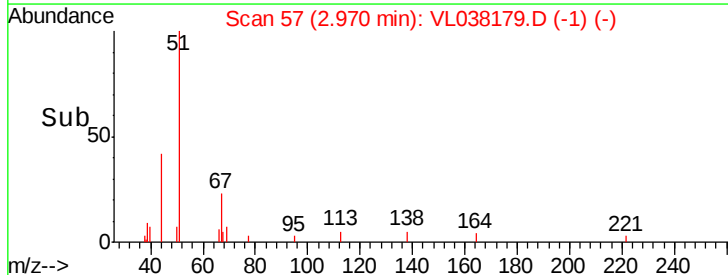
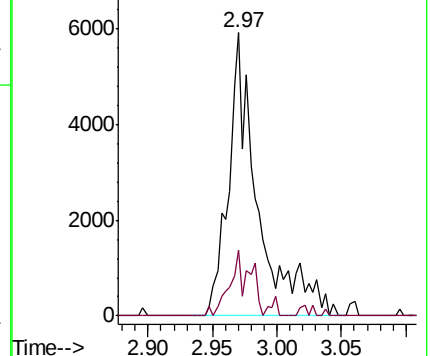
51 100

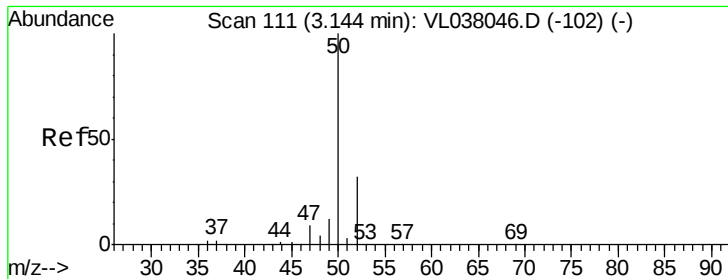
67 17.7 13.8 20.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.041 ppbv

RT: 3.12 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

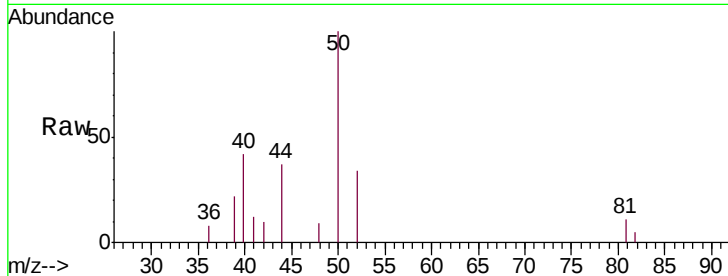
Acq: 15 Dec 2021 8:23

Tot Ion: 50 Resp: 2352

Ion Ratio Lower Upper

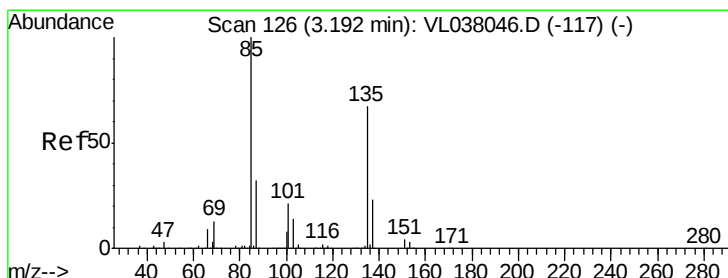
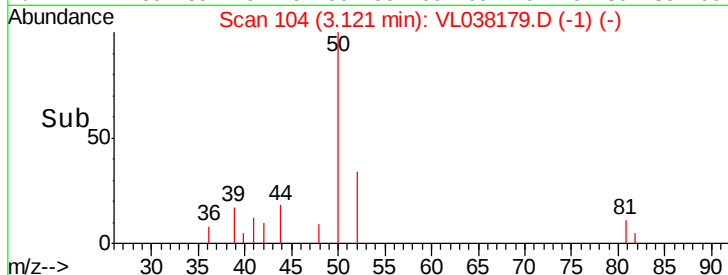
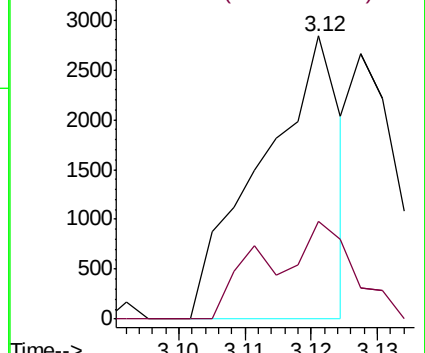
50 100

52 34.4 25.4 38.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.039 ppbv

RT: 3.17 min Scan# 119

Delta R.T. -0.02 min

Lab File: VL038179.D

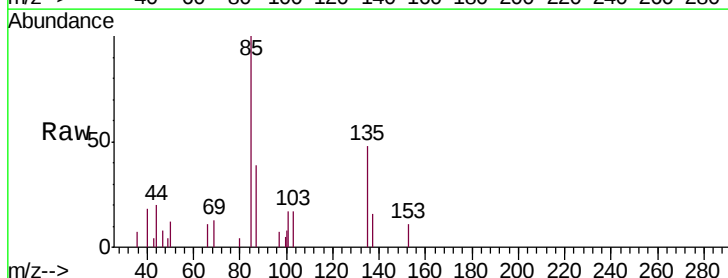
Acq: 15 Dec 2021 8:23

Tgt Ion: 85 Resp: 5229

Ion Ratio Lower Upper

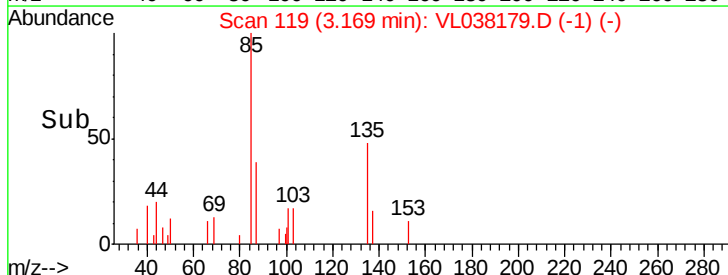
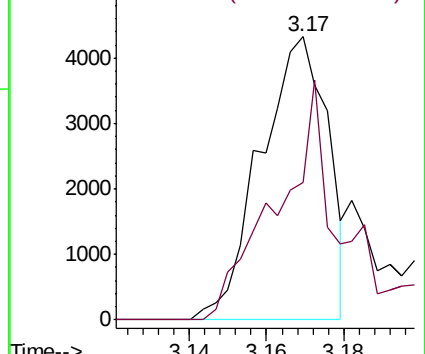
85 100

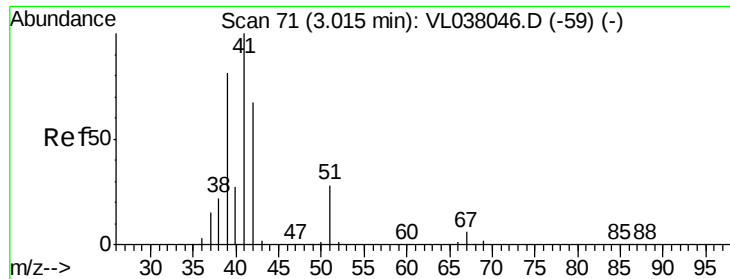
135 84.3 57.9 86.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.068 ppbv

RT: 3.00 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

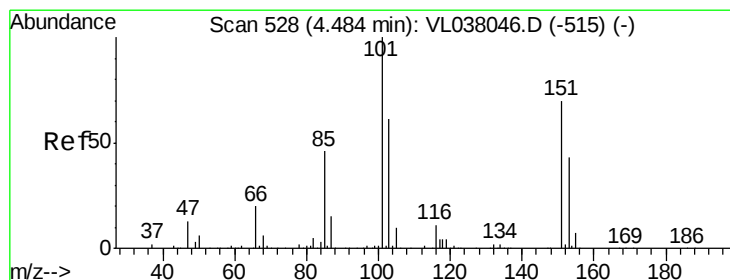
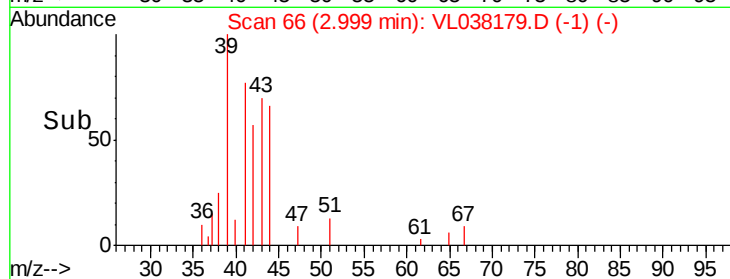
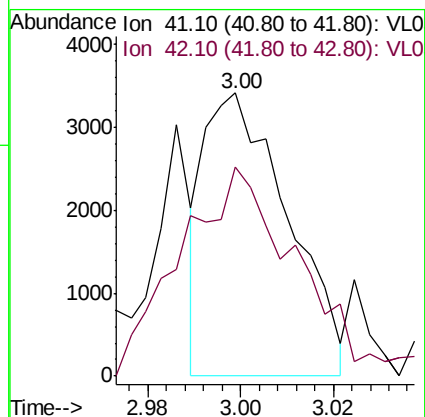
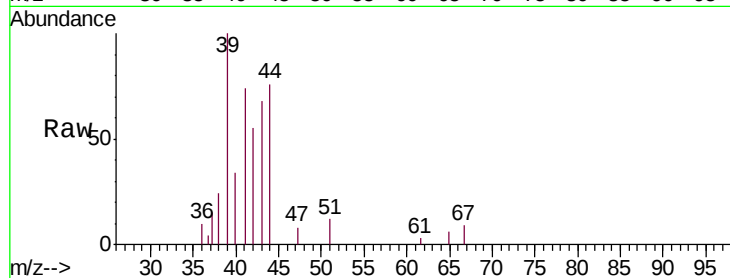
Acq: 15 Dec 2021 8:23

Tot Ion: 41 Resp: 4263

Ion Ratio Lower Upper

41 100

42 108.1 53.8 80.8#



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.039 ppbv

RT: 4.45 min Scan# 517

Delta R.T. -0.04 min

Lab File: VL038179.D

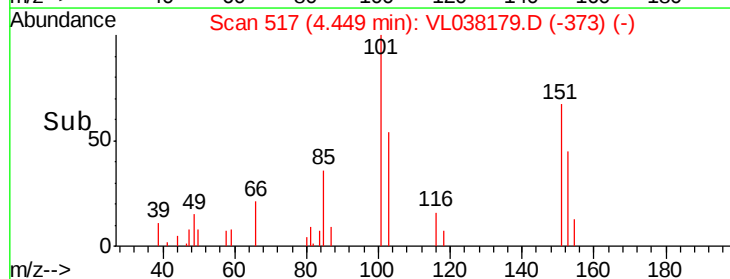
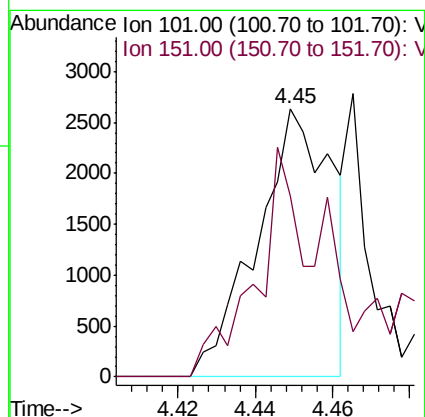
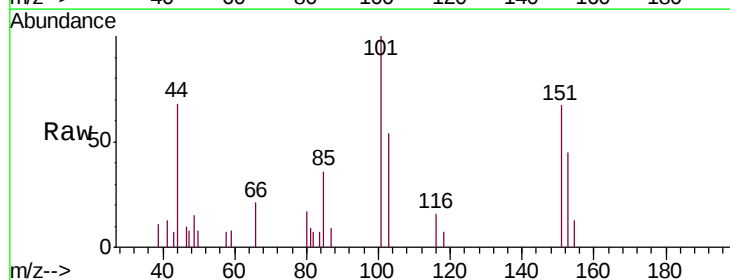
Acq: 15 Dec 2021 8:23

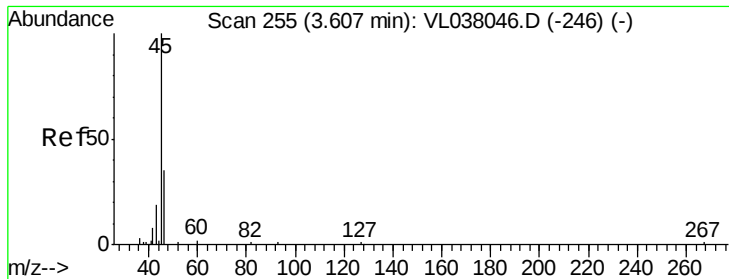
Tgt Ion: 101 Resp: 3520

Ion Ratio Lower Upper

101 100

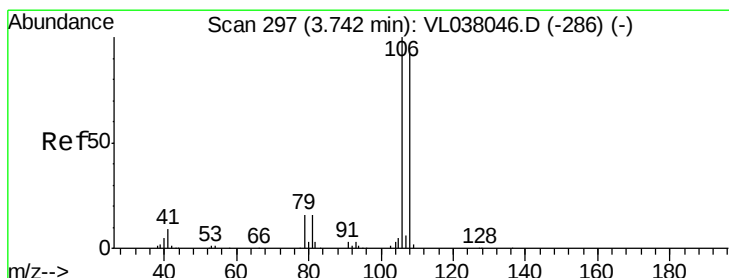
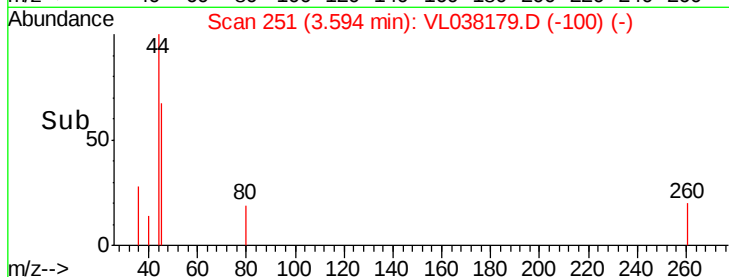
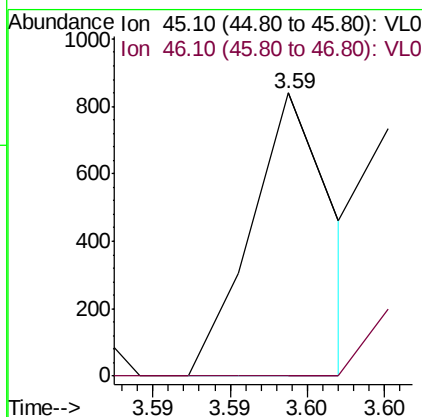
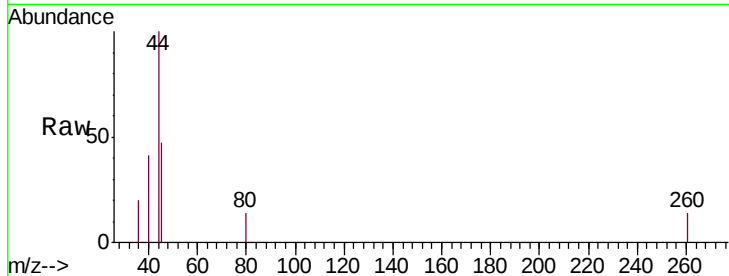
151 96.0 59.0 88.4#





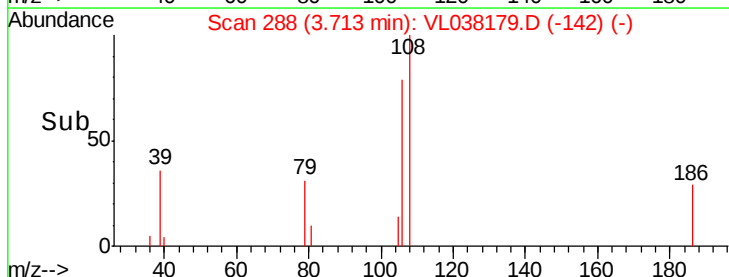
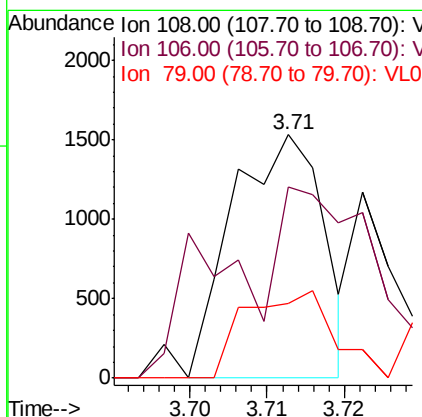
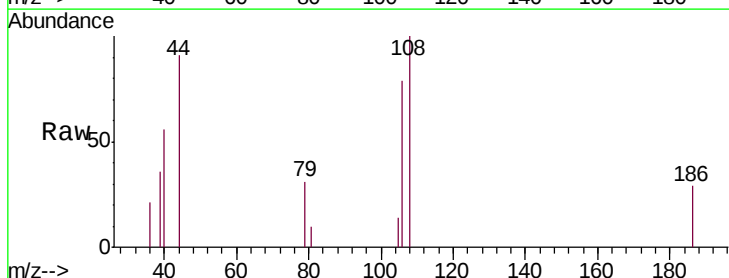
#13
Ethanol
Concen: 0.051 ppbv
RT: 3.59
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 15 Dec 2021 8:23

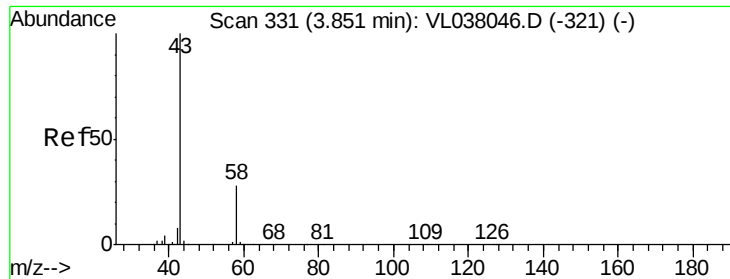
Tot Ion: 45 Resp: 310
Ion Ratio Lower Upper
45 100
46 0.0 17.6 70.2#



#14
Bromoethene
Concen: 0.031 ppbv
RT: 3.71 min Scan# 288
Delta R.T. -0.03 min
Lab File: VL038179.D
Acq: 15 Dec 2021 8:23

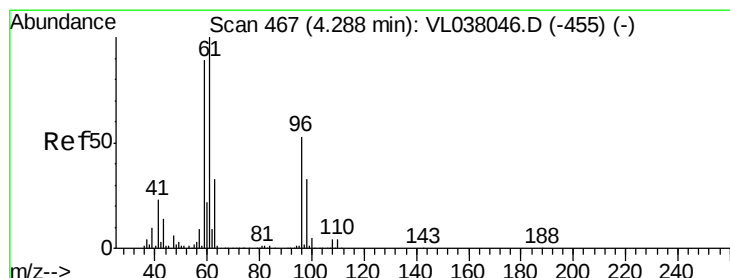
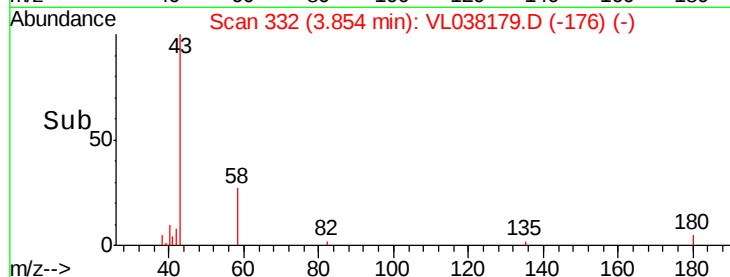
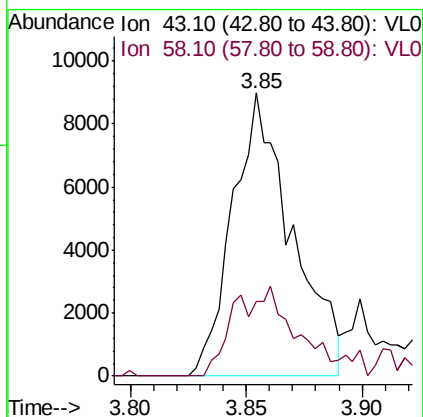
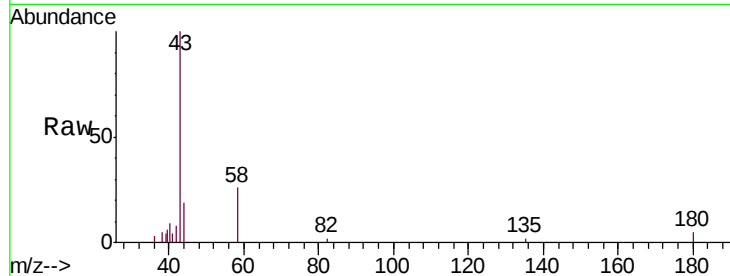
Tgt Ion: 108 Resp: 1263
Ion Ratio Lower Upper
108 100
106 146.2 89.4 134.0#
79 43.4 14.1 21.1#





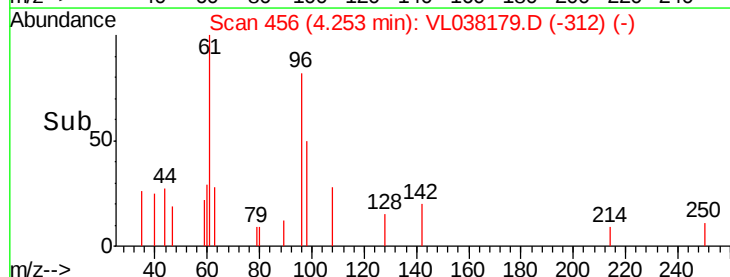
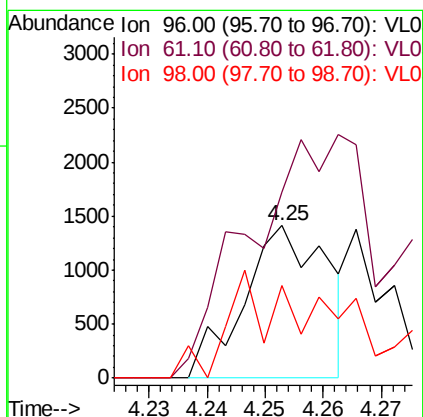
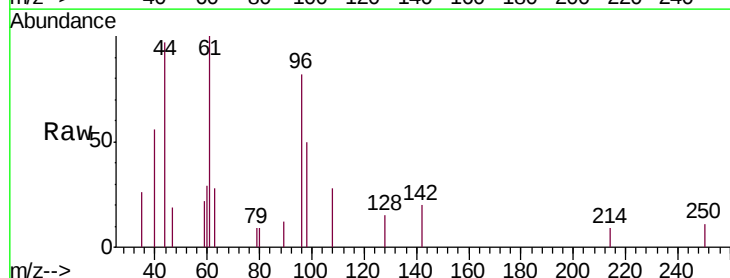
#15
Acetone
Concen: 0.228 ppbv
RT: 3.85
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 15 Dec 2021 8:23

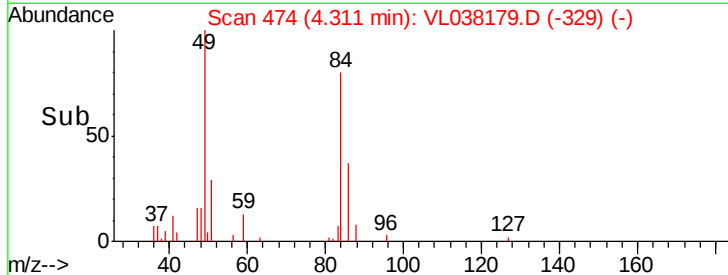
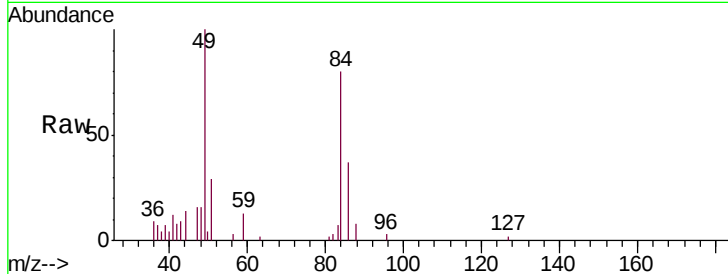
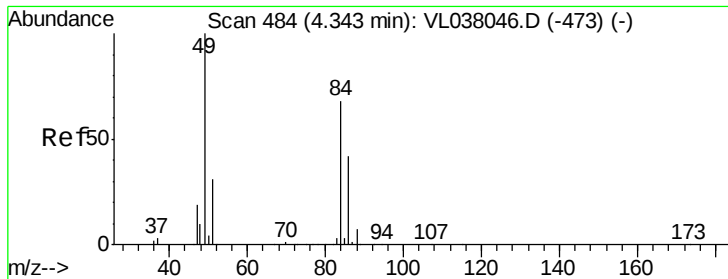
Tot Ion: 43 Resp: 16000
Ion Ratio Lower Upper
43 100
58 39.4 22.4 33.6#



#18
1,1-Dichloroethene
Concen: 0.034 ppbv
RT: 4.25 min Scan# 456
Delta R.T. -0.04 min
Lab File: VL038179.D
Acq: 15 Dec 2021 8:23

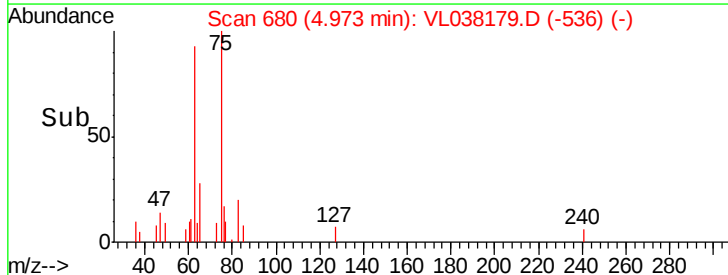
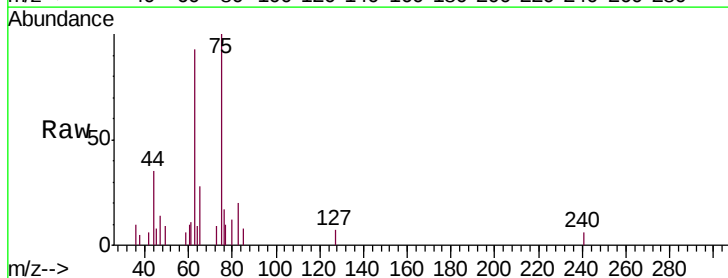
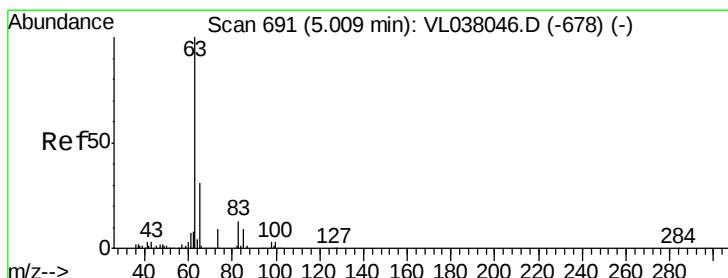
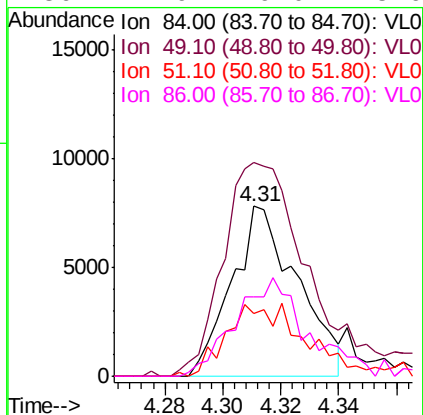
Tgt Ion: 96 Resp: 1408
Ion Ratio Lower Upper
96 100
61 109.2 149.8 224.8#
98 39.7 50.2 75.2#





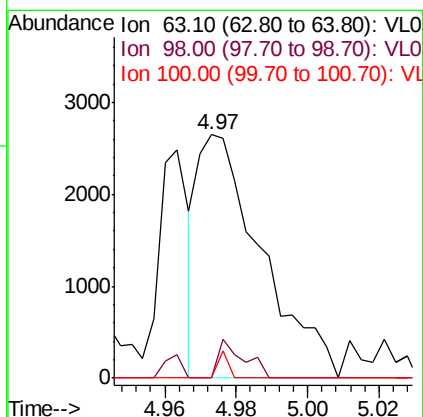
#20
Methvlene Chloride
Concen: 0.313 ppbv
RT: 4.31
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 15 Dec 2021 8:23

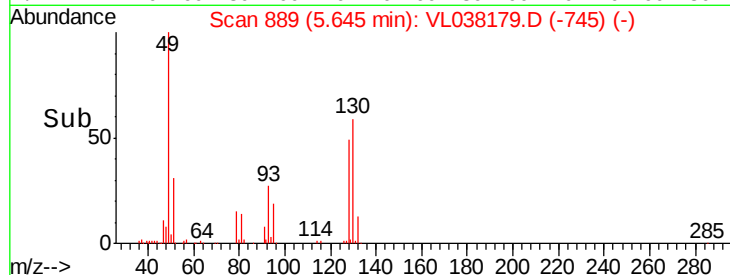
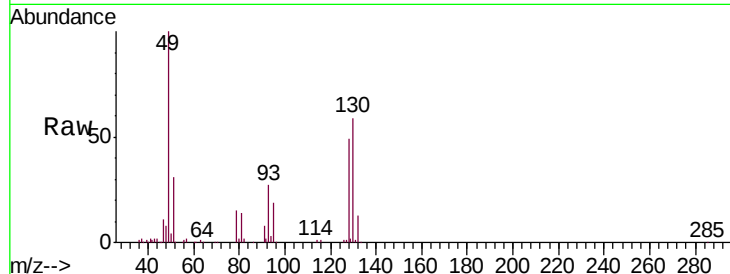
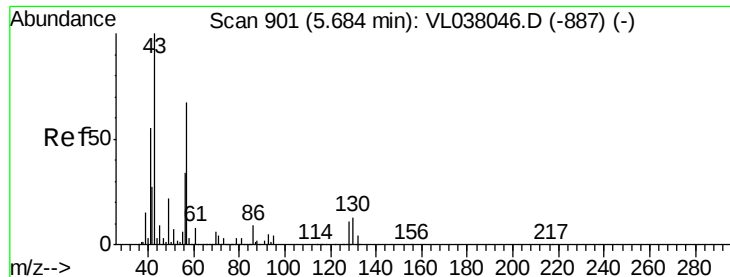
Tot Ion:	84	Resp:	12329
Ion	Ratio	Lower	Upper
84	100		
49	122.0	118.2	177.2
51	36.6	36.8	55.2#
86	44.9	49.0	73.6#



#24
1,1-Dichloroethane
Concen: 0.039 ppbv
RT: 4.97 min Scan# 680
Delta R.T. -0.04 min
Lab File: VL038179.D
Acq: 15 Dec 2021 8:23

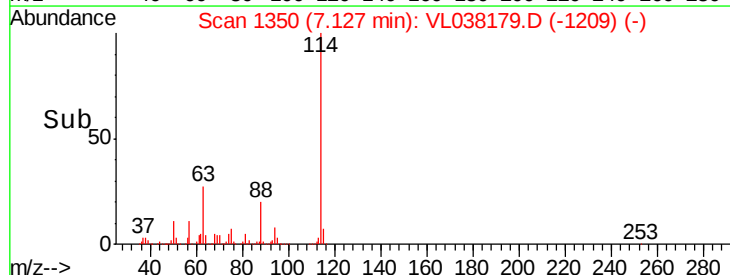
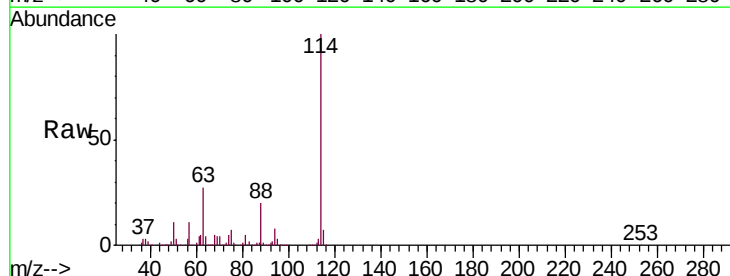
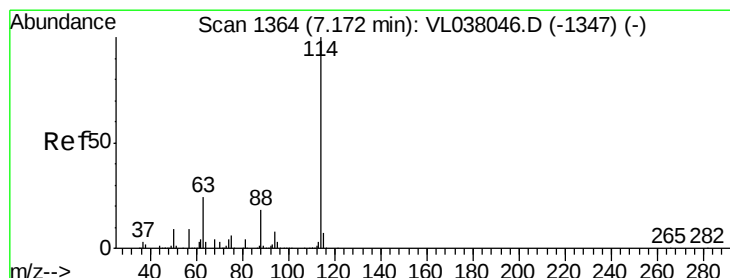
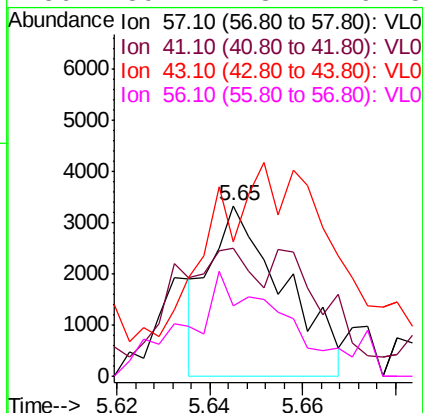
Tgt Ion:	63	Resp:	3285
Ion	Ratio	Lower	Upper
63	100		
98	0.0	1.8	5.4#
100	0.0	1.4	4.0#





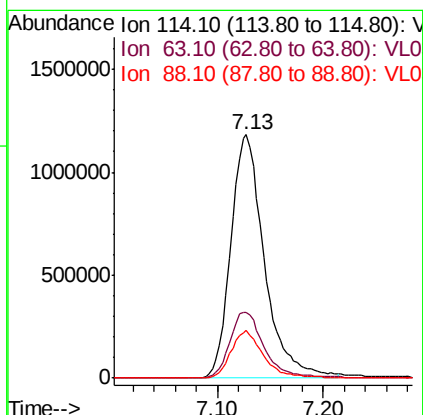
#26
Hexane
Concen: 0.033 ppbv
RT: 5.65
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 15 Dec 2021 8:23

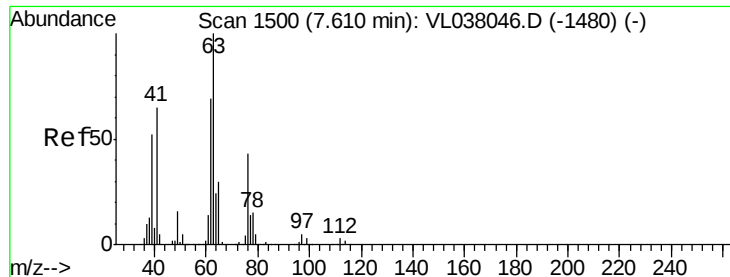
Tot Ion:	57	Resp:	3693
Ion	Ratio	Lower	Upper
57	100		
41	169.8	71.4	107.2#
43	295.1	174.6	261.8#
56	89.2	43.2	64.8#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.13 min Scan# 1350
Delta R.T. -0.05 min
Lab File: VL038179.D
Acq: 15 Dec 2021 8:23

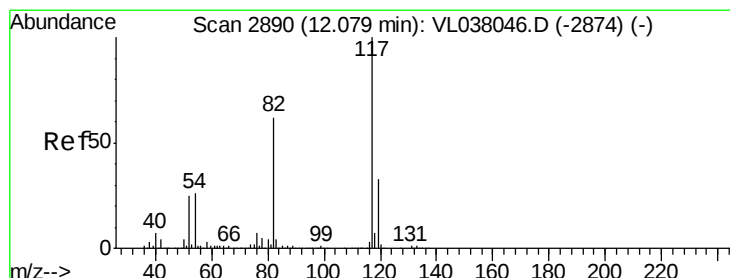
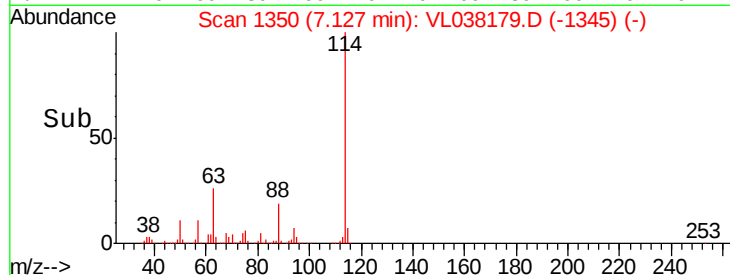
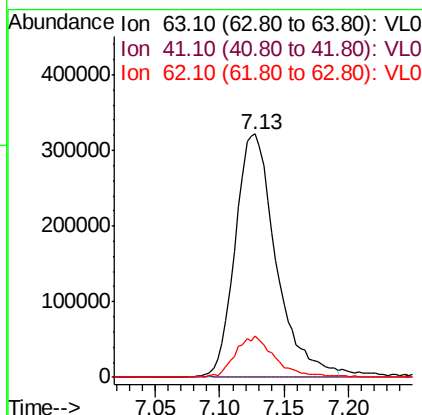
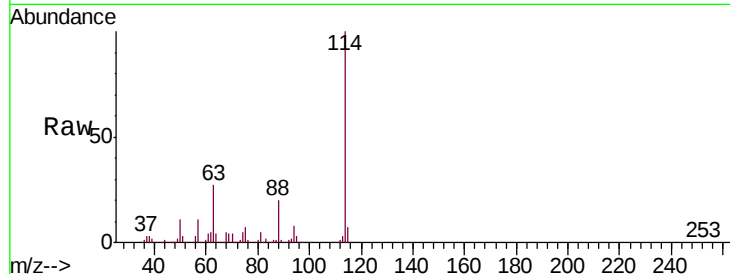
Tgt Ion:	114	Resp:	2612907
Ion	Ratio	Lower	Upper
114	100		
63	28.0	19.7	29.5
88	19.3	14.4	21.6





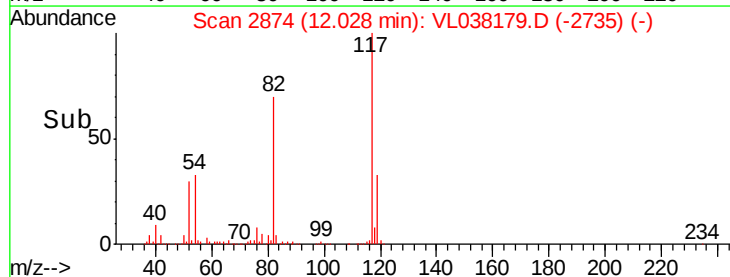
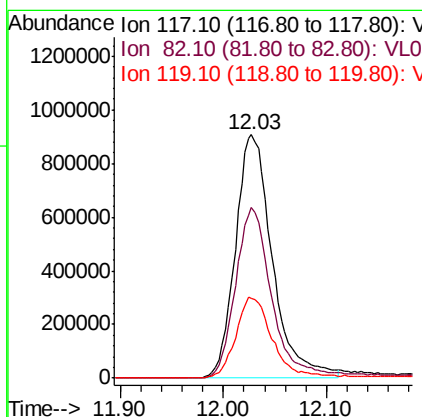
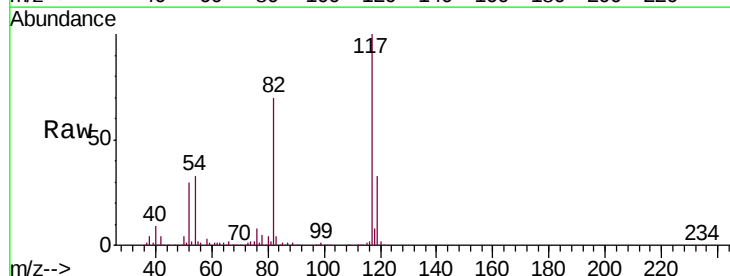
#39
 1,2-Dichloropropane
 Concen: 7.094 ppbv
 RT: 7.13
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 15 Dec 2021 8:23

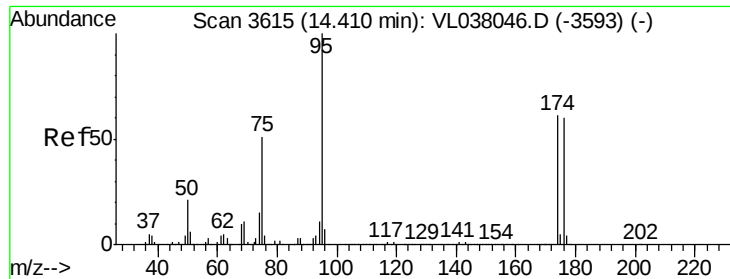
Tot Ion	63	Resp	709249
Ion	Ratio	Lower	Upper
63	100		
41	0.1	52.3	78.5#
62	17.0	55.1	82.7#



#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.03 min Scan# 2874
 Delta R.T.: -0.05 min
 Lab File: VL038179.D
 Acq: 15 Dec 2021 8:23

Tgt Ion	117	Resp	2266058
Ion	Ratio	Lower	Upper
117	100		
82	71.2	52.8	79.2
119	34.5	26.8	40.2





#68

1-Bromo-4-Fluorobenzene

Concen: 10.797 ppbv

RT: 14.36

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 15 Dec 2021 8:25

Tot Ion: 95 Resp: 1764857

Ion Ratio Lower Upper

95 100

174 61.9 53.1 79.7

175 4.5 4.0 6.0

