

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121621\
 Data File : VL038191.D
 Acq On : 16 Dec 2021 16:02
 Operator : SY/AP
 Sample : M5117-02DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Dec 17 05:08:40 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	5.67	49	1106879	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2778952	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2380685	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	1805479	10.51	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.10%

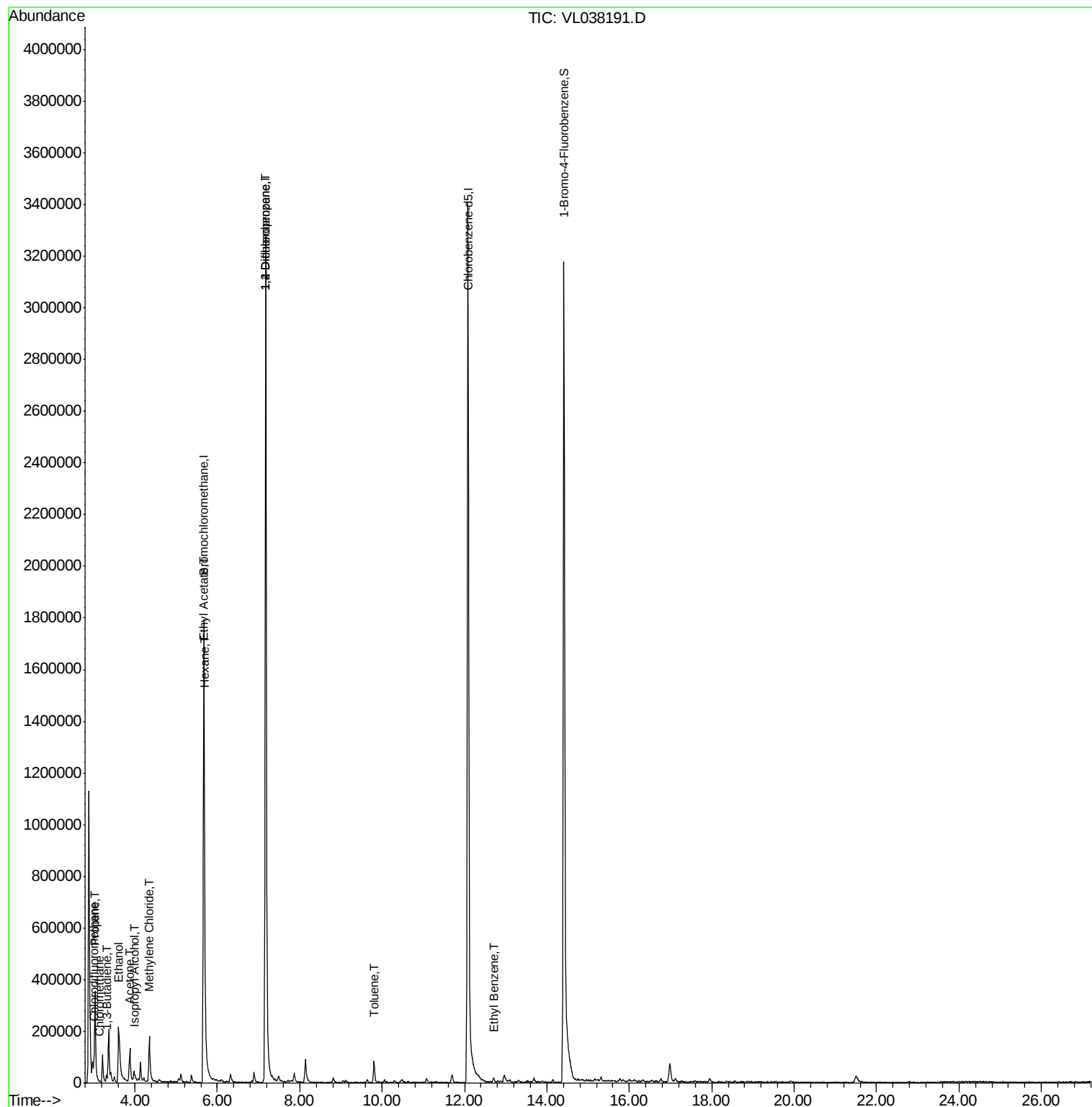
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.99	51	103712	0.446	ppbv #	80
4) Chloromethane	3.15	50	2565	0.032	ppbv #	79
9) Propene	3.03	41	103021	1.203	ppbv #	74
13) Ethanol	3.60	45	358095	43.285	ppbv	91
15) Acetone	3.88	43	107774	1.123	ppbv #	87
16) 1,3-Butadiene	3.31	39	7782	0.104	ppbv #	56
19) Isopropyl Alcohol	3.98	45	52775	0.761	ppbv #	98
20) Methylene Chloride	4.35	84	61410	1.142	ppbv	94
25) Ethyl Acetate	5.69	43	55899	0.175	ppbv #	81
26) Hexane	5.69	57	72942	0.474	ppbv #	45
39) 1,2-Dichloropropane	7.18	63	734888	6.911	ppbv #	27
53) Toluene	9.80	91	30599	0.096	ppbv #	34
58) Ethyl Benzene	12.71	91	11817	0.030	ppbv	99

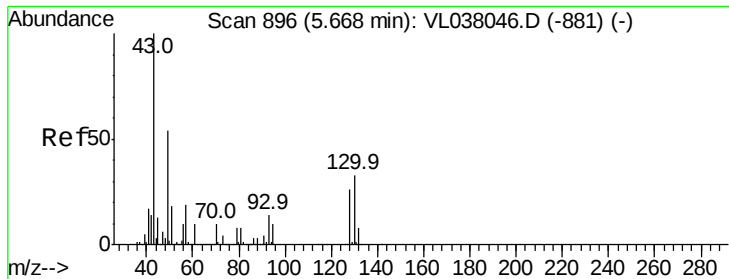
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 16 Dec 2021 16:02

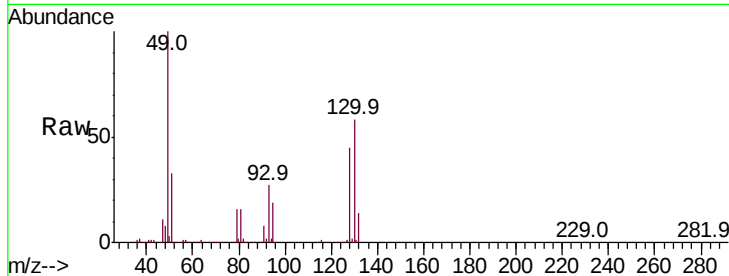
Tot Ion: 49 Resp: 1106879

Ion Ratio Lower Upper

49 100

128 45.6 26.5 79.5

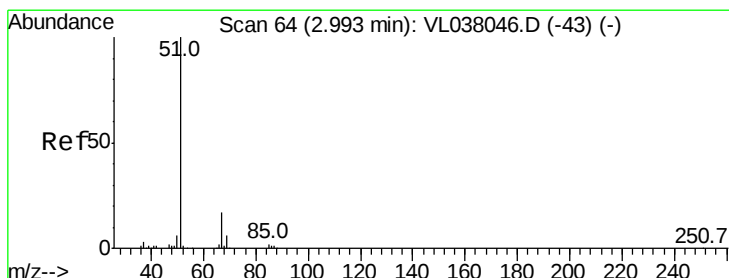
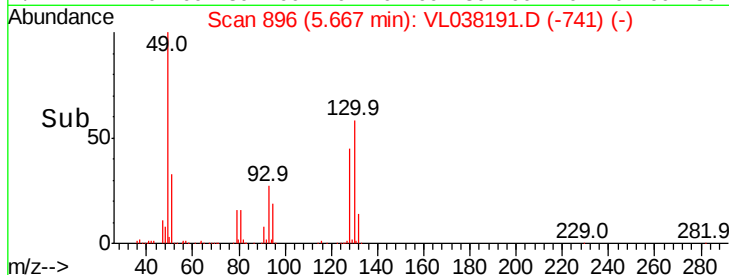
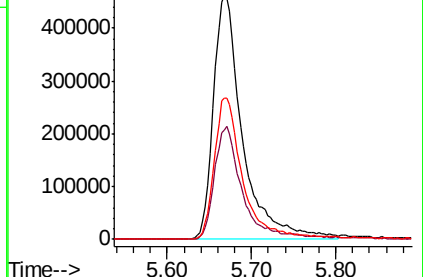
130 57.6 32.5 97.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#3

Chlorodifluoromethane

Concen: 0.446 ppbv

RT: 2.99 min Scan# 64

Delta R.T. -0.00 min

Lab File: VL038191.D

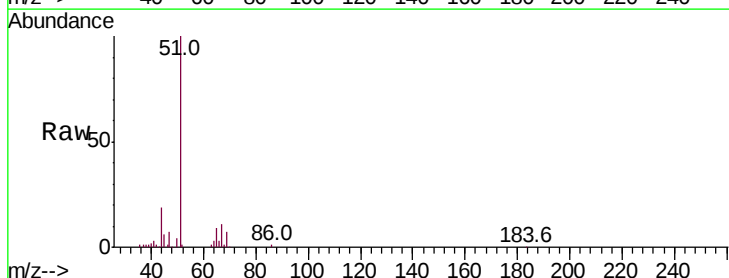
Acq: 16 Dec 2021 16:02

Tgt Ion: 51 Resp: 103712

Ion Ratio Lower Upper

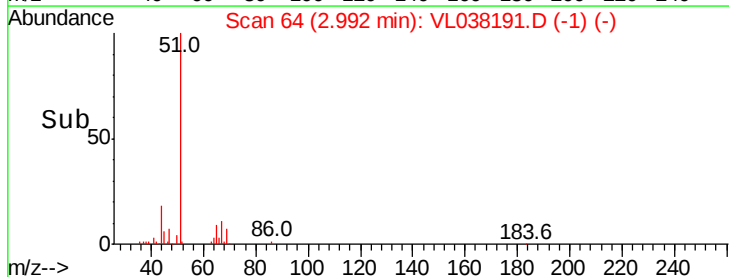
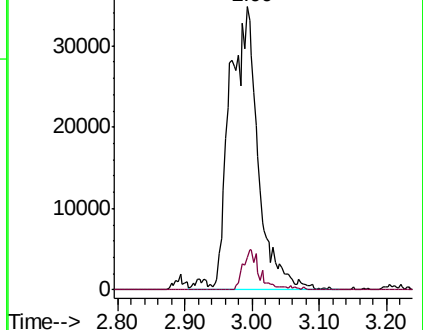
51 100

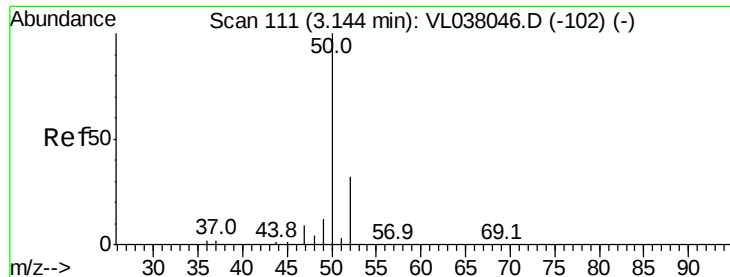
67 8.5 13.8 20.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.032 ppbv

RT: 3.15 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

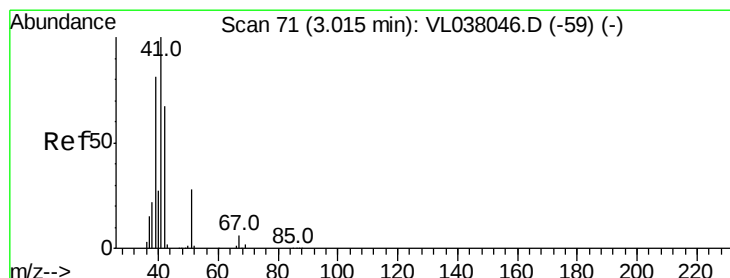
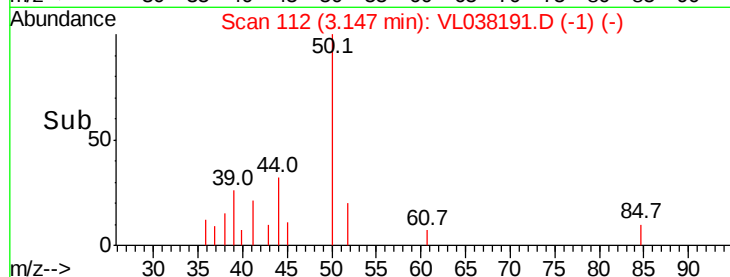
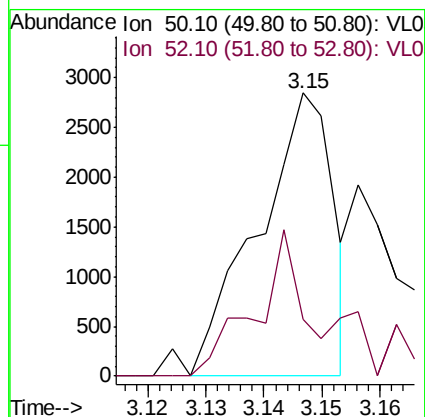
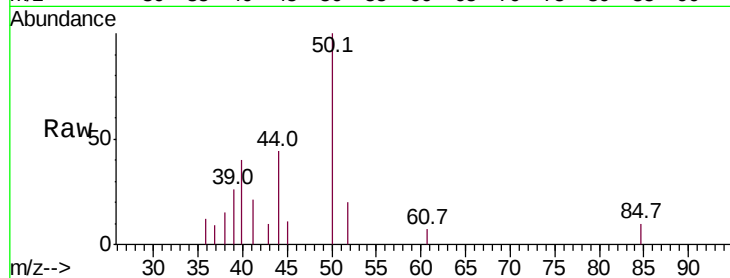
Acq: 16 Dec 2021 16:02

Tot Ion: 50 Resp: 2565

Ion Ratio Lower Upper

50 100

52 20.2 25.4 38.0#



#9

Propene

Concen: 1.203 ppbv

RT: 3.03 min Scan# 75

Delta R.T. 0.01 min

Lab File: VL038191.D

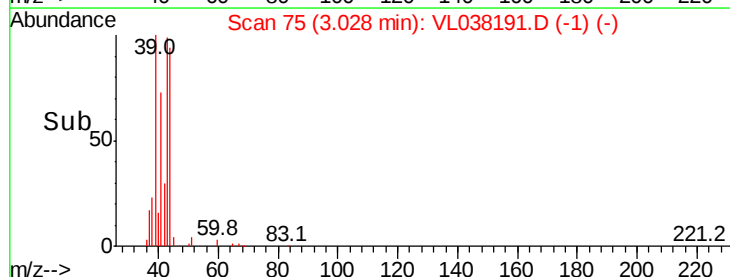
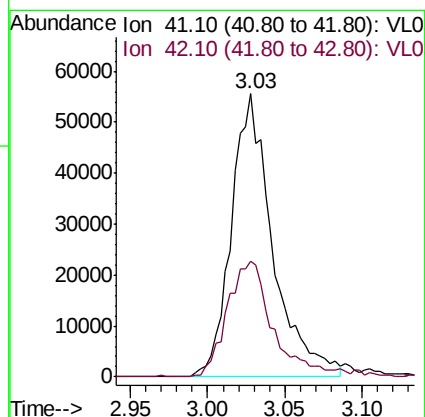
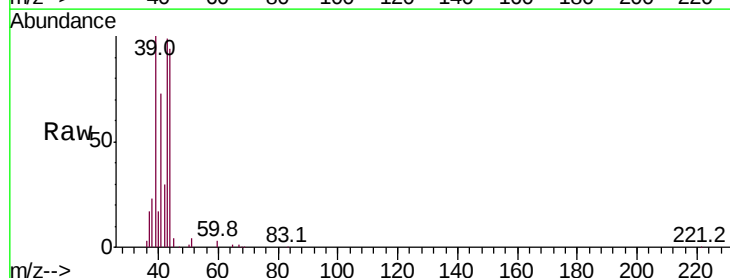
Acq: 16 Dec 2021 16:02

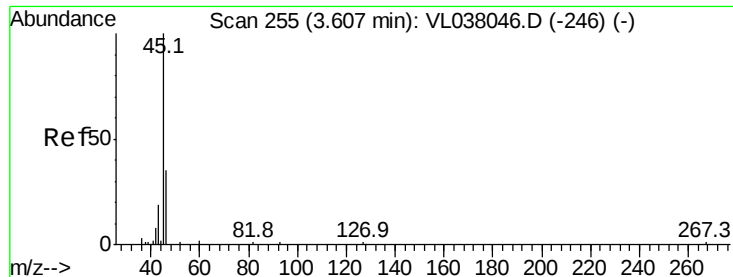
Tgt Ion: 41 Resp: 103021

Ion Ratio Lower Upper

41 100

42 46.2 53.8 80.8#





#13

Ethanol

Concen: 43.285 ppbv

RT: 3.60

Delta R.T. MSVOA_L

Lab File:

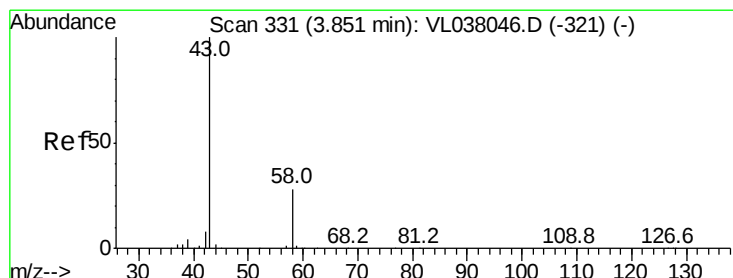
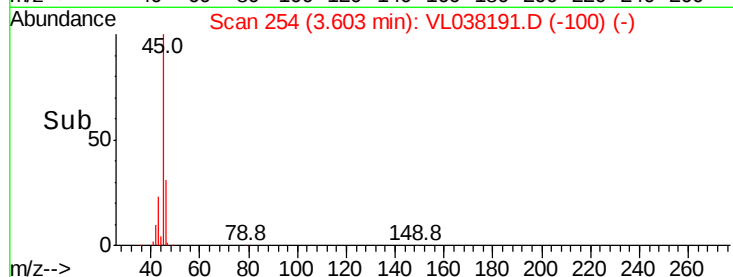
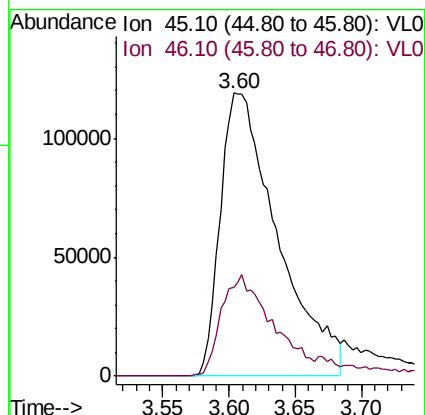
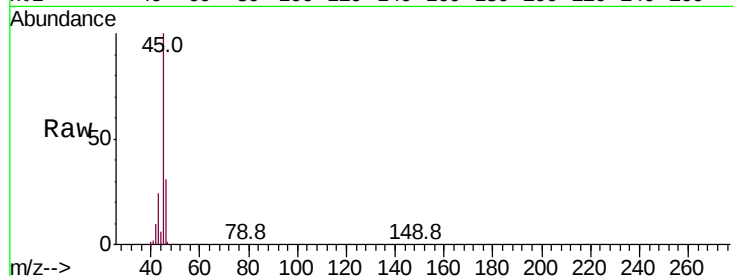
Acq: 16 Dec 2021 16:02

Tot Ion: 45 Resp: 358095

Ion Ratio Lower Upper

45 100

46 38.2 17.6 70.2



#15

Acetone

Concen: 1.123 ppbv

RT: 3.88 min Scan# 339

Delta R.T. 0.03 min

Lab File: VL038191.D

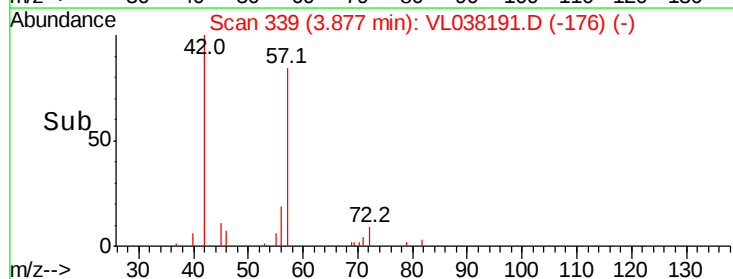
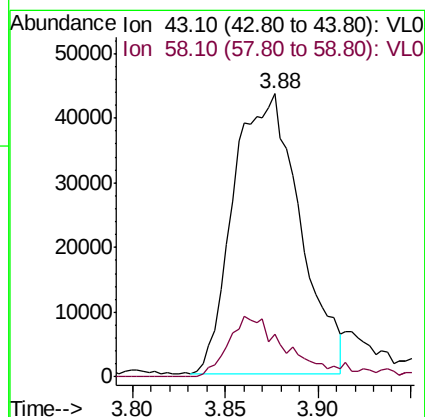
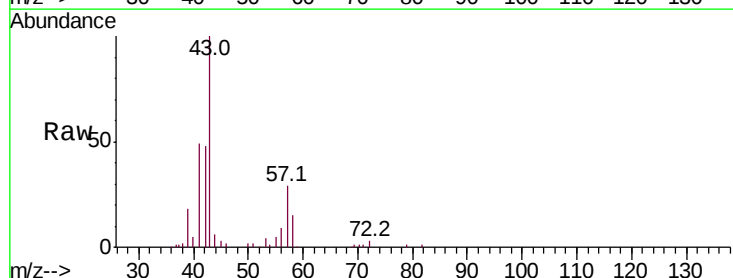
Acq: 16 Dec 2021 16:02

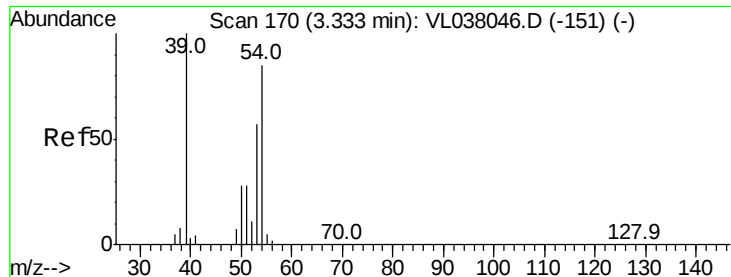
Tgt Ion: 43 Resp: 107774

Ion Ratio Lower Upper

43 100

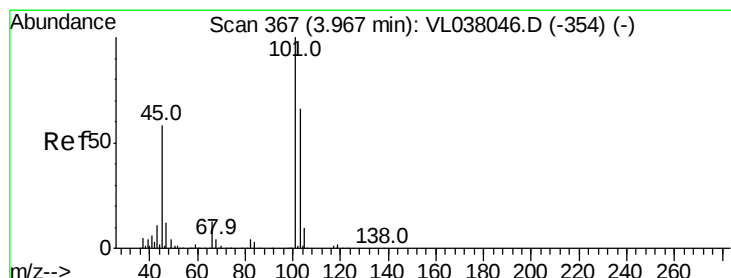
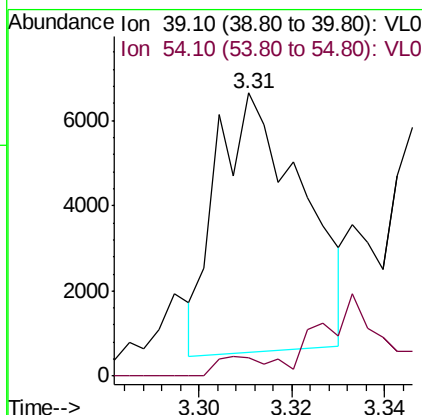
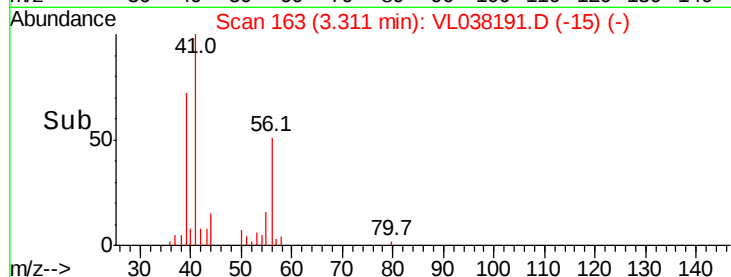
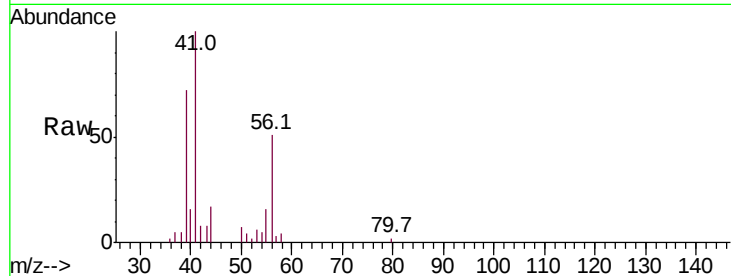
58 20.9 22.4 33.6#





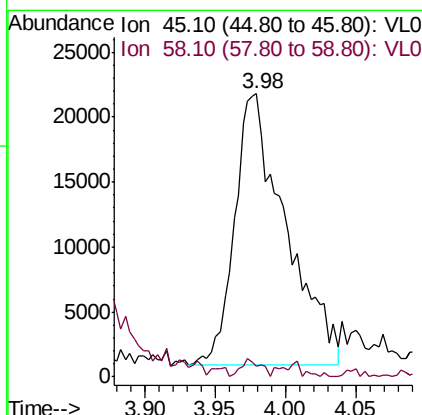
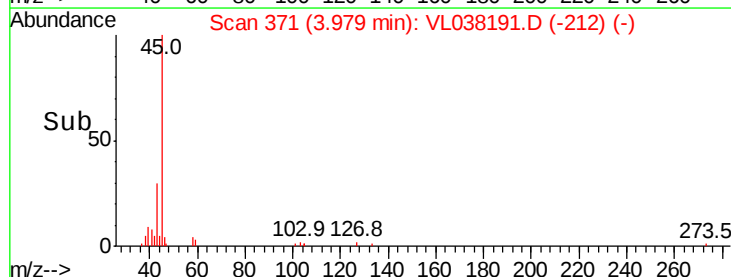
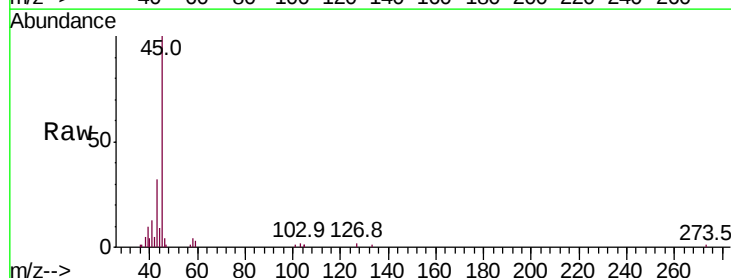
#16
 1,3-Butadiene
 Concen: 0.104 ppbv
 RT: 3.31 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 16 Dec 2021 16:02

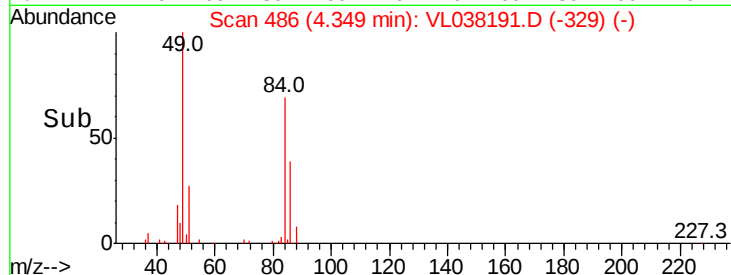
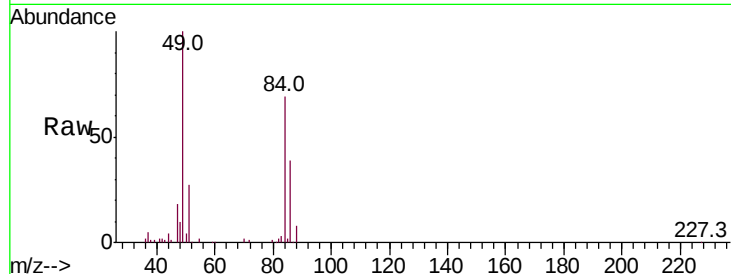
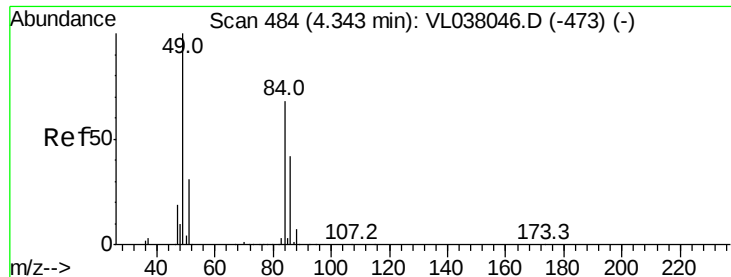
Tot Ion: 39 Resp: 7782
 Ion Ratio Lower Upper
 39 100
 54 41.4 64.4 96.6#



#19
 Isopropyl Alcohol
 Concen: 0.761 ppbv
 RT: 3.98 min Scan# 371
 Delta R.T. 0.01 min
 Lab File: VL038191.D
 Acq: 16 Dec 2021 16:02

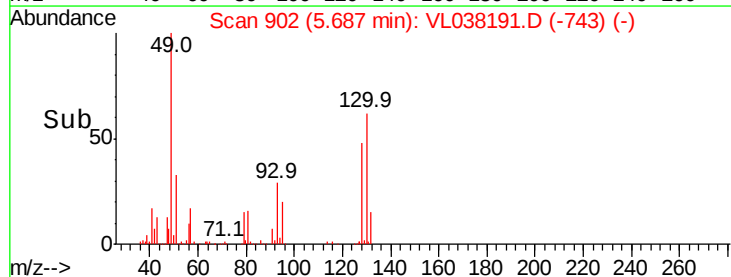
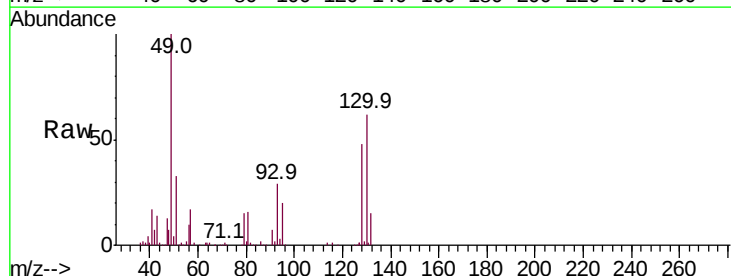
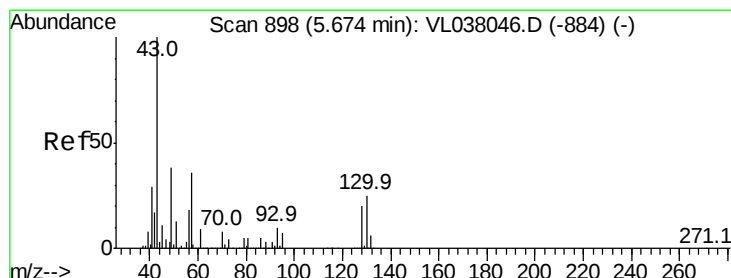
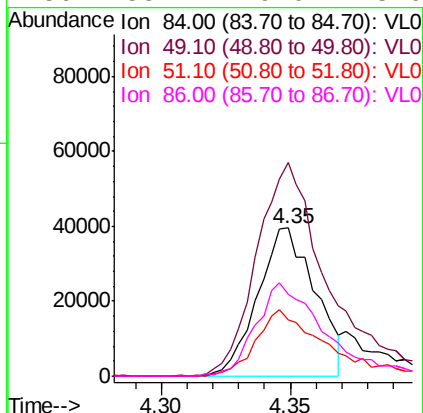
Tgt Ion: 45 Resp: 52775
 Ion Ratio Lower Upper
 45 100
 58 2.5 1.4 2.0#





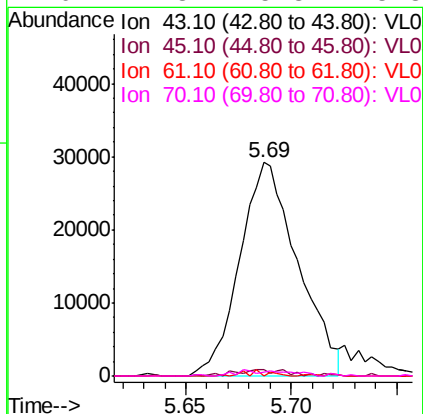
#20
Methvlene Chloride
Concen: 1.142 ppbv
RT: 4.35
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 16 Dec 2021 16:02

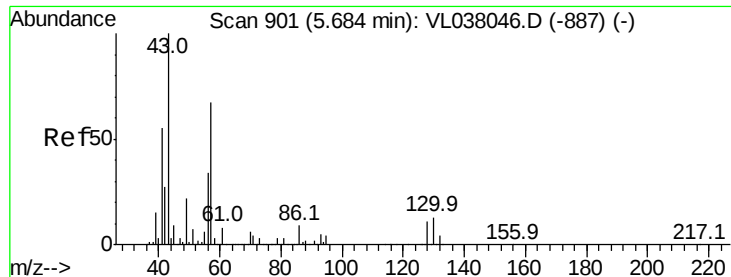
Tot Ion:	84	Resp:	61410
Ion	Ratio	Lower	Upper
84	100		
49	144.0	118.2	177.2
51	37.8	36.8	55.2
86	55.7	49.0	73.6



#25
Ethyl Acetate
Concen: 0.175 ppbv
RT: 5.69 min Scan# 902
Delta R.T. 0.01 min
Lab File: VL038191.D
Acq: 16 Dec 2021 16:02

Tgt Ion:	43	Resp:	55899
Ion	Ratio	Lower	Upper
43	100		
45	3.1	7.9	11.9#
61	1.1	7.8	11.6#
70	2.8	5.8	8.8#





#26

Hexane

Concen: 0.474 ppbv

RT: 5.69 Instrument :

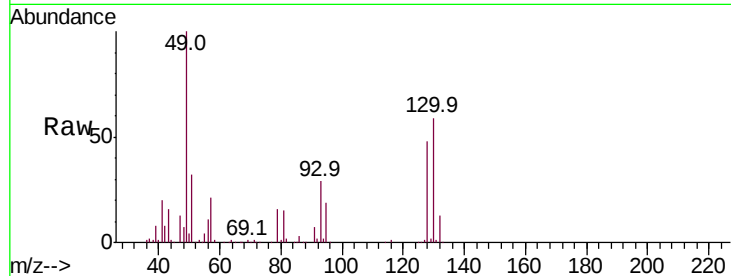
Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 16 Dec 2021 16:02

Tot Ion: 57 Resp: 72942

Ion	Ratio	Lower	Upper
57	100		
41	100.2	71.4	107.2
43	82.6	174.6	261.8#
56	58.7	43.2	64.8

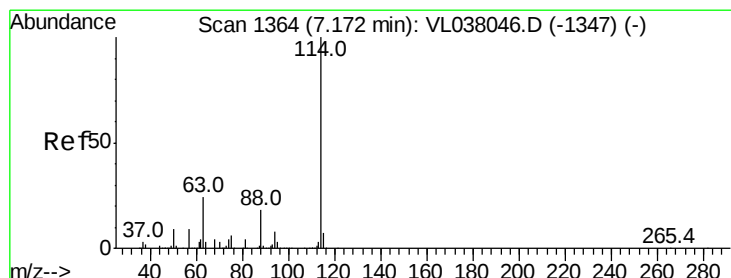
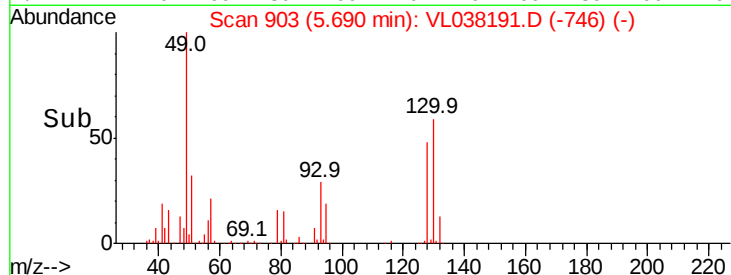
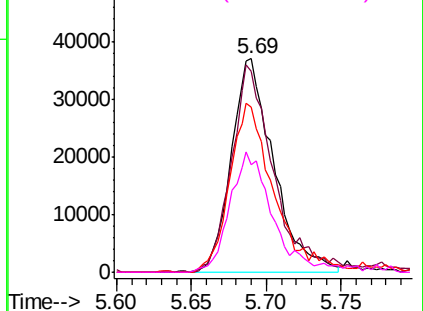


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1365

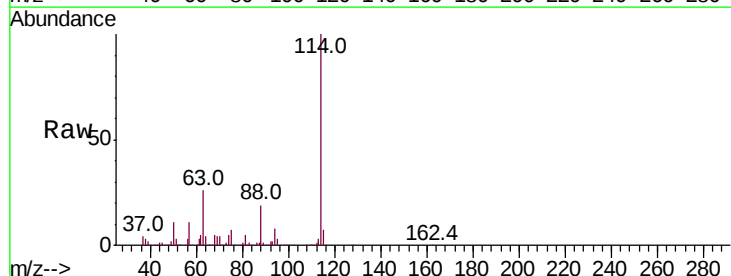
Delta R.T. 0.00 min

Lab File: VL038191.D

Acq: 16 Dec 2021 16:02

Tgt Ion: 114 Resp: 2778952

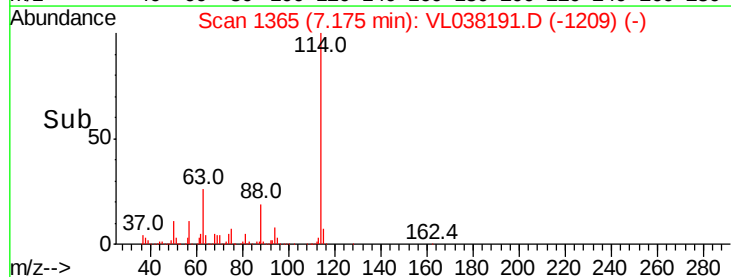
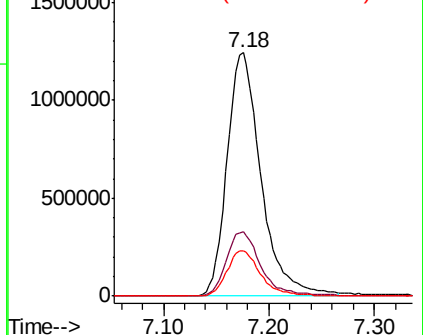
Ion	Ratio	Lower	Upper
114	100		
63	27.1	19.7	29.5
88	18.9	14.4	21.6

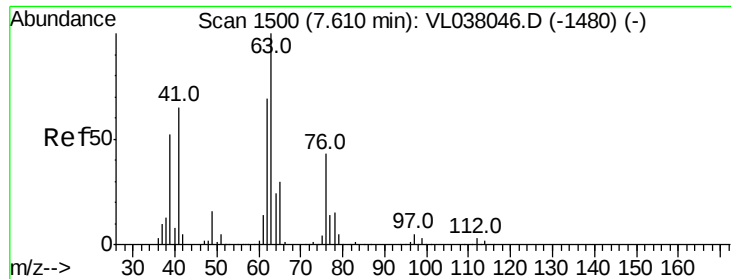


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

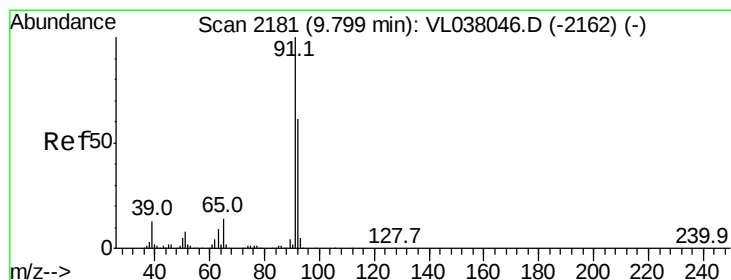
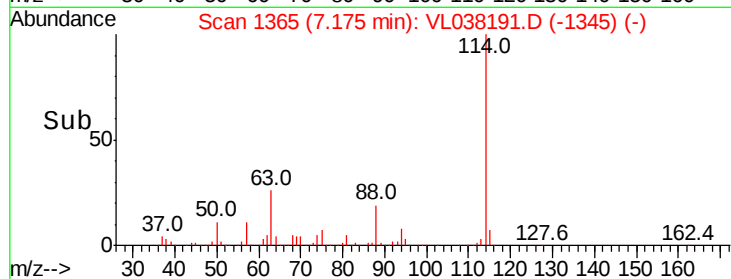
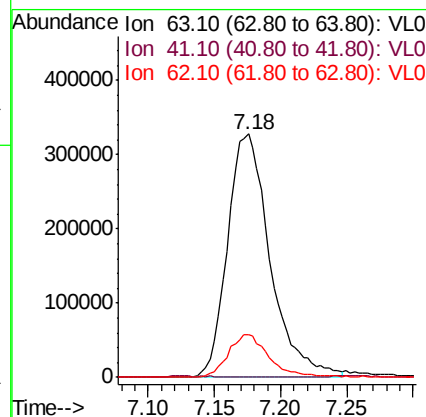
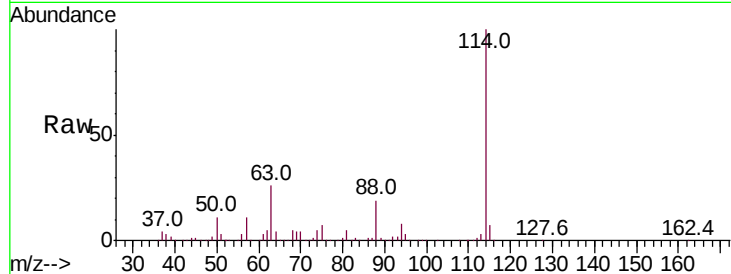
Ion 88.10 (87.80 to 88.80): VL0





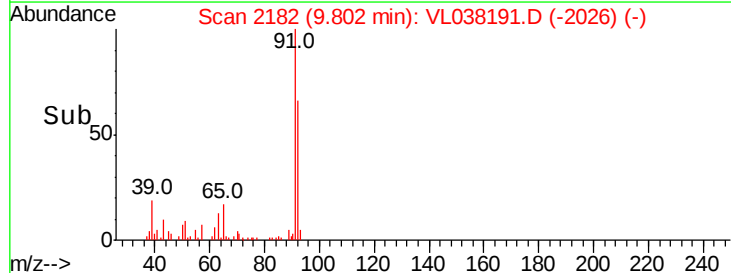
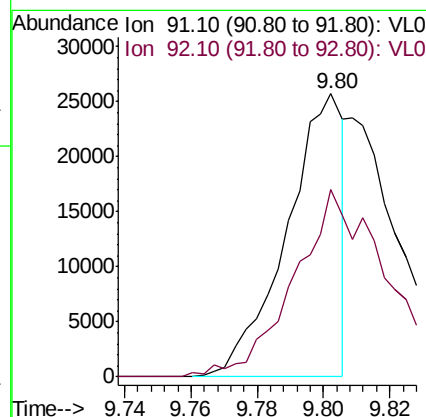
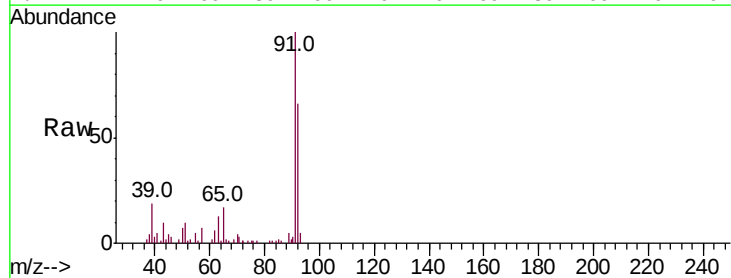
#39
 1,2-Dichloropropane
 Concen: 6.911 ppbv
 RT: 7.18
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 16 Dec 2021 16:02

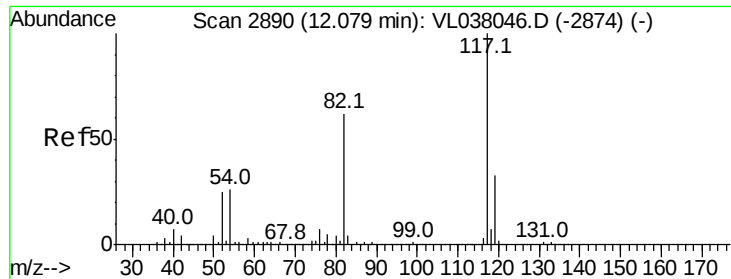
Tot Ion	63	Resp	734888
Ion Ratio	Lower	Upper	
63	100		
41	0.0	52.3	78.5#
62	17.0	55.1	82.7#



#53
 Toluene
 Concen: 0.096 ppbv
 RT: 9.80 min Scan# 2182
 Delta R.T.: 0.00 min
 Lab File: VL038191.D
 Acq: 16 Dec 2021 16:02

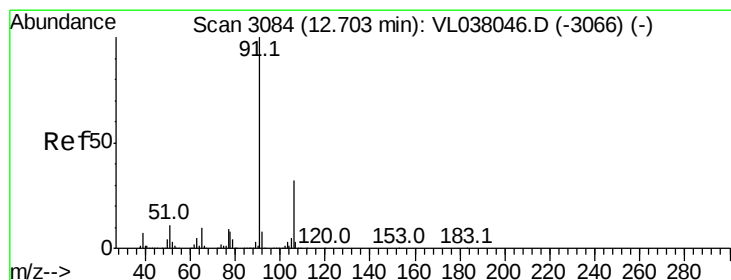
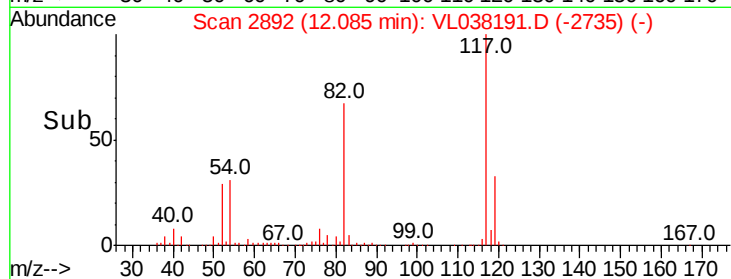
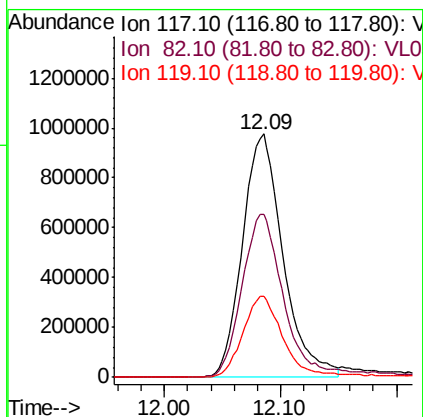
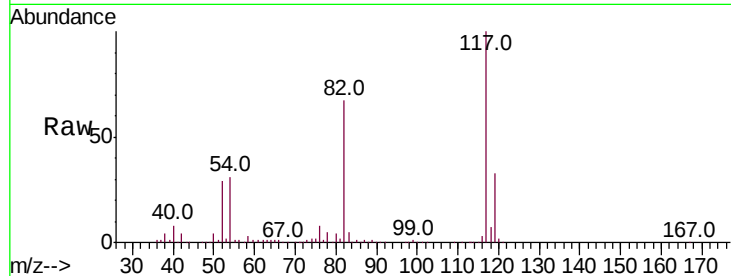
Tgt Ion	91	Resp	30599
Ion Ratio	Lower	Upper	
91	100		
92	113.2	49.7	74.5#





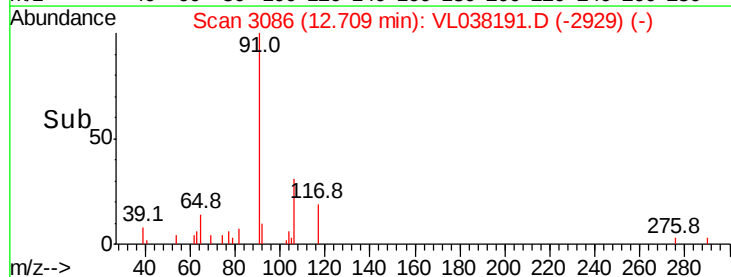
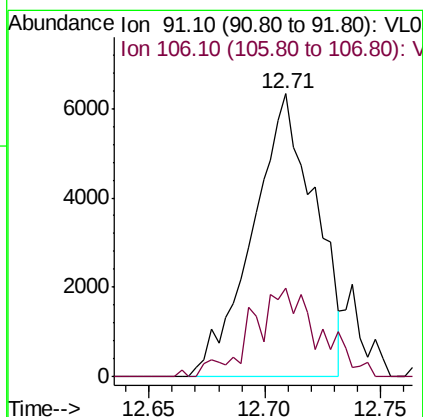
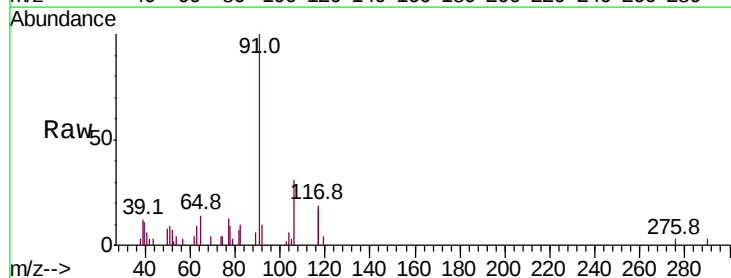
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 16 Dec 2021 16:02

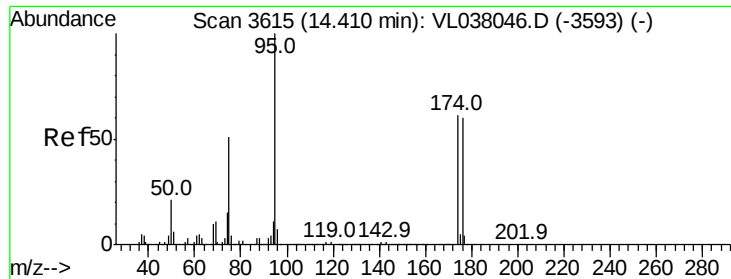
Tot Ion: 117 Resp: 2380685
Ion Ratio Lower Upper
117 100
82 71.3 52.8 79.2
119 34.0 26.8 40.2



#58
Ethyl Benzene
Concen: 0.030 ppbv
RT: 12.71 min Scan# 3086
Delta R.T.: 0.01 min
Lab File: VL038191.D
Acq: 16 Dec 2021 16:02

Tgt Ion: 91 Resp: 11817
Ion Ratio Lower Upper
91 100
106 31.4 25.8 38.6





#68

1-Bromo-4-Fluorobenzene

Concen: 10.514 ppbv

RT: 14.41

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 16 Dec 2021 18:02

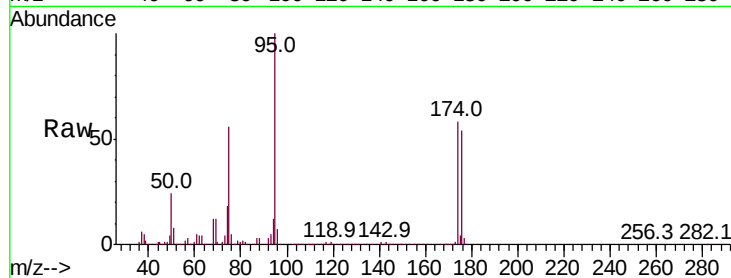
Tot Ion: 95 Resp: 1805479

Ion Ratio Lower Upper

95 100

174 64.4 53.1 79.7

175 4.8 4.0 6.0



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

