

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112321\
 Data File : VL038105.D
 Acq On : 23 Nov 2021 18:39
 Operator : SY/AP
 Sample : M4805-07DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-CURATED-HOMEDL

Quant Time: Nov 24 06:55:04 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	5.66	49	964948	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	2708957	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	2348341	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	1788271	10.56	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.60%

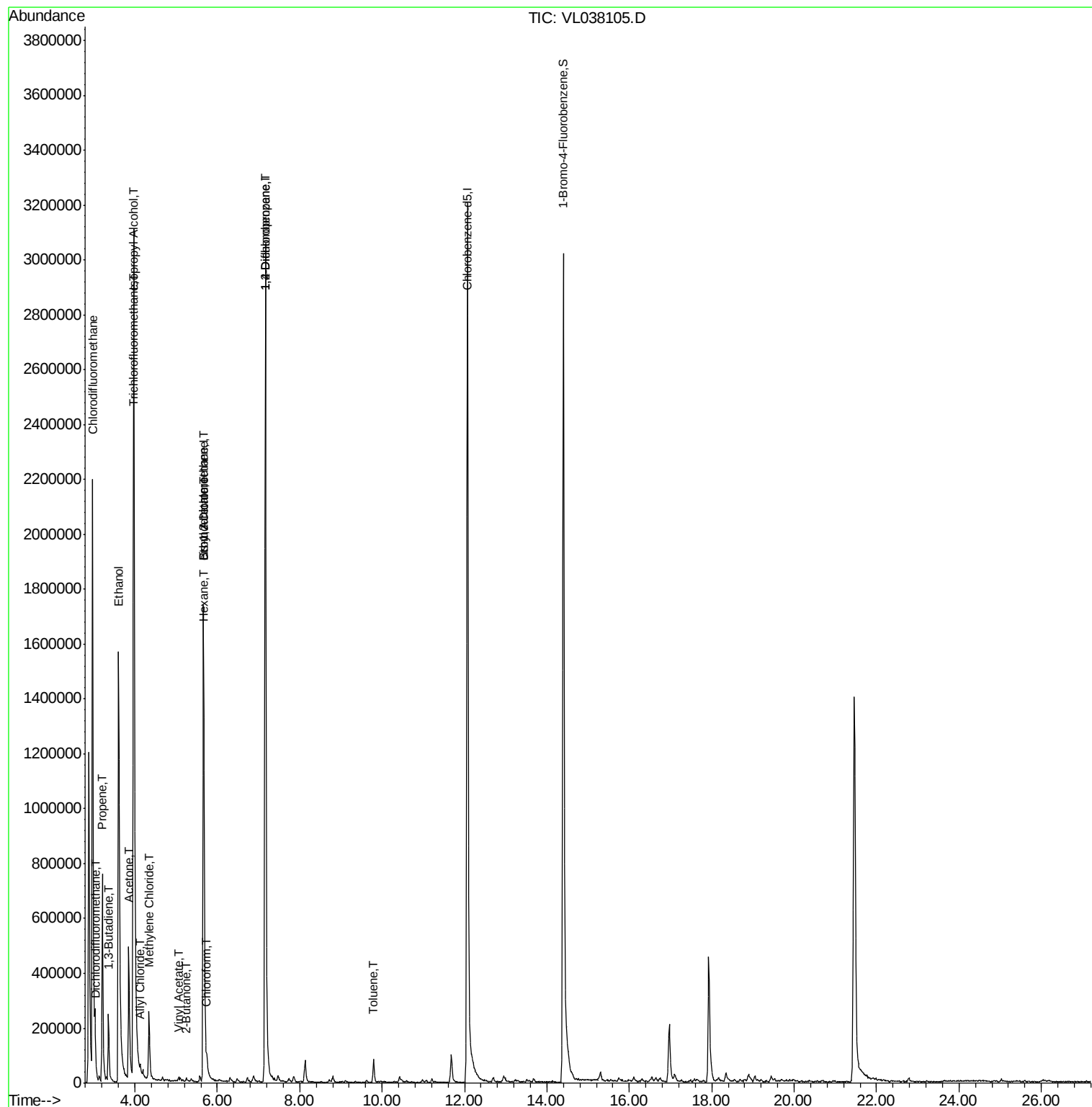
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	7207	0.045	ppbv	90
3) Chlorodifluoromethane	2.97	51	1850660	9.133	ppbv #	60
9) Propene	3.21	41	271349	3.636	ppbv	97
11) Trichlorofluoromethane	3.95	101	24153	0.159	ppbv #	83
13) Ethanol	3.60	45	2241556	310.806	ppbv	92
15) Acetone	3.85	43	608446	7.273	ppbv	98
16) 1,3-Butadiene	3.36	39	31596	0.484	ppbv #	14
19) Isopropyl Alcohol	3.97	45	4813821	79.634	ppbv #	98
20) Methylene Chloride	4.34	84	97870	2.089	ppbv	98
21) Allyl Chloride	4.13	41	6307	0.081	ppbv #	19
23) Vinyl Acetate	5.06	43	7490	0.062	ppbv #	65
25) Ethyl Acetate	5.67	43	245961	0.885	ppbv #	95
26) Hexane	5.68	57	59289	0.442	ppbv #	17
29) Chloroform	5.74	83	17808	0.090	ppbv	100
31) cis-1,2-Dichloroethene	5.67	61	25058	0.197	ppbv #	24
34) 2-Butanone	5.25	43	9933	0.091	ppbv #	72
39) 1,2-Dichloropropane	7.17	63	674422	6.506	ppbv #	27
53) Toluene	9.79	91	65191	0.210	ppbv	94

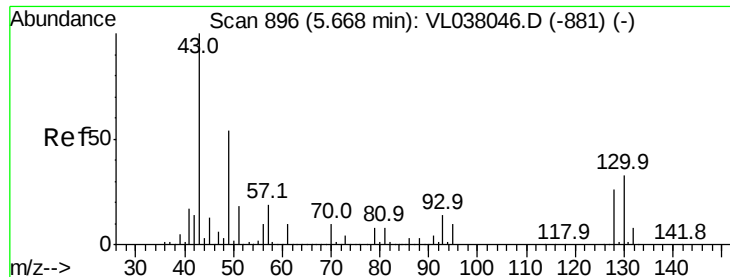
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: IA-CURATED-HOMEDL

Acq: 23 Nov 2021 18:39

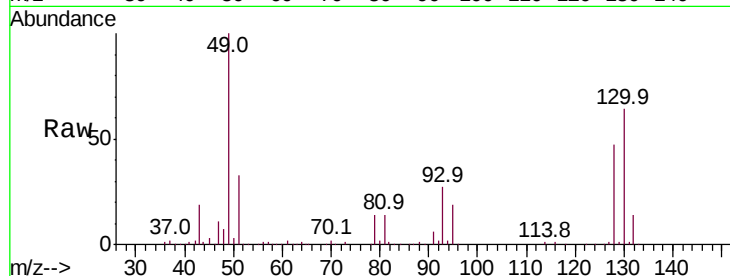
Tot Ion: 49 Resp: 964948

Ion Ratio Lower Upper

49 100

128 49.0 26.5 79.5

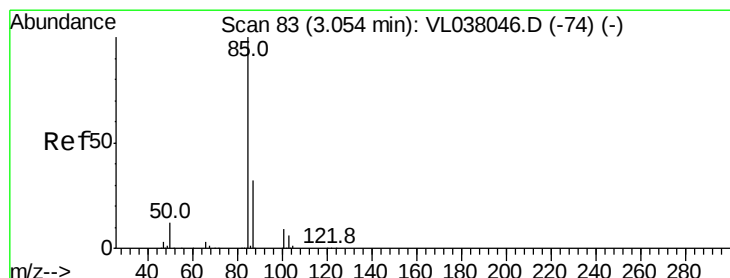
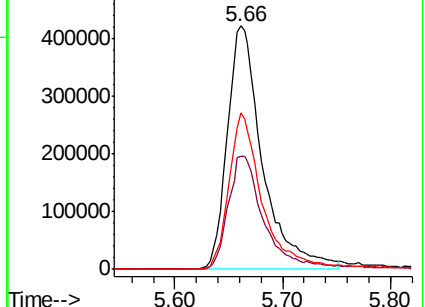
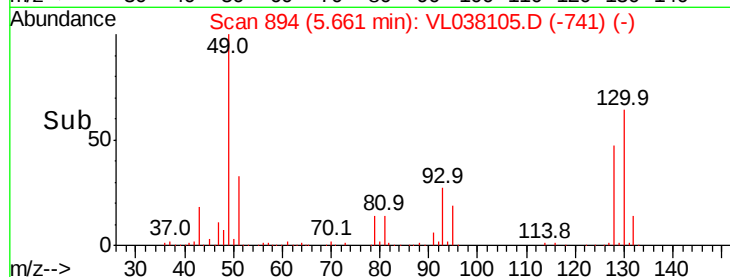
130 62.7 32.5 97.4



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



#2

Dichlorodifluoromethane

Concen: 0.045 ppbv

RT: 3.05 min Scan# 82

Delta R.T. -0.00 min

Lab File: VL038105.D

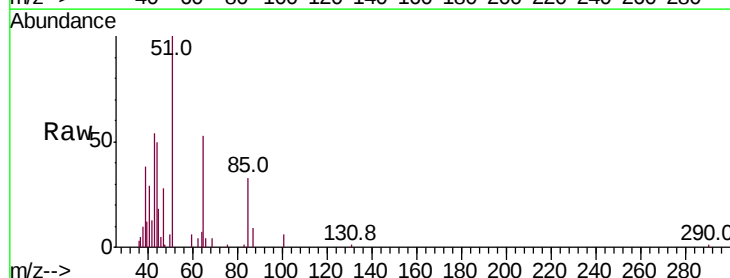
Acq: 23 Nov 2021 18:39

Tgt Ion: 85 Resp: 7207

Ion Ratio Lower Upper

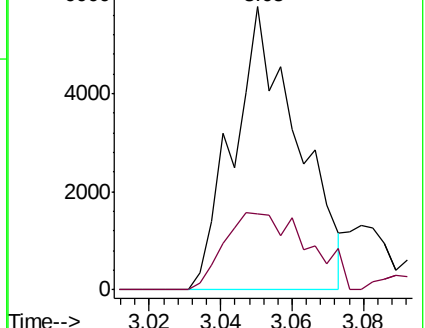
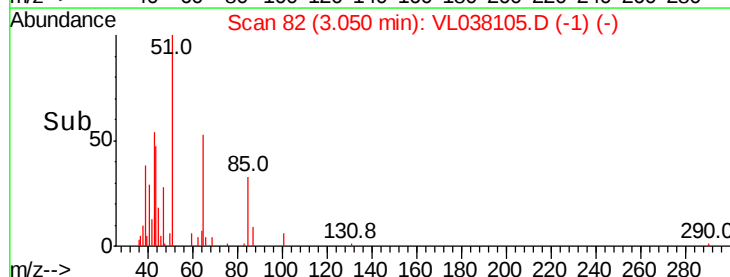
85 100

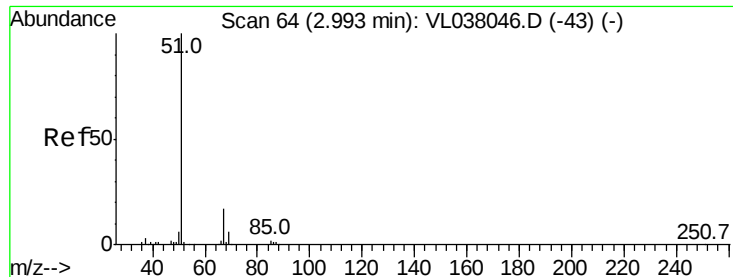
87 26.8 25.8 38.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.133 ppbv

RT: 2.97 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

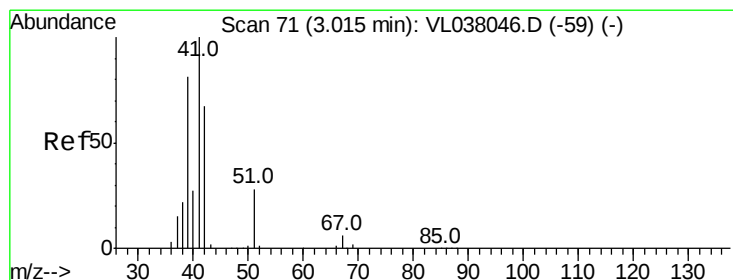
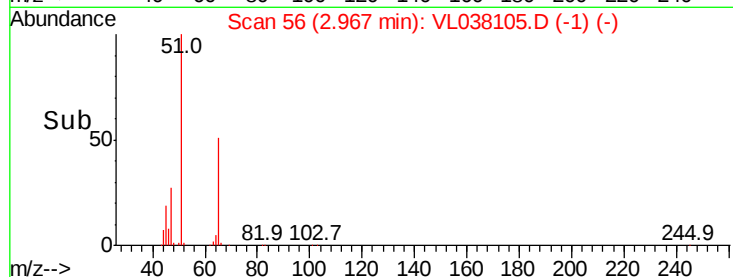
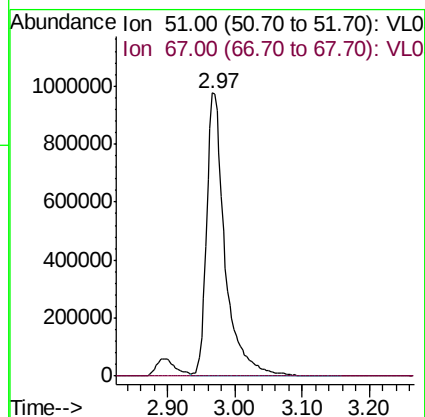
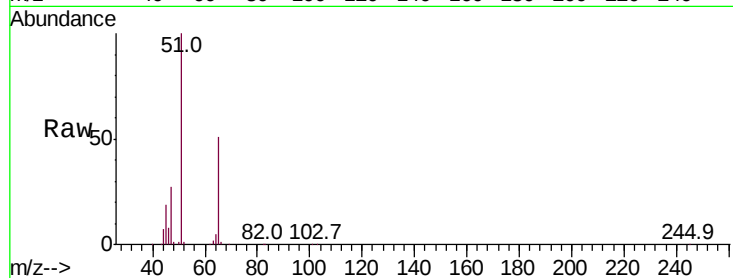
Acq: 23 Nov 2021 18:39

Tot Ion: 51 Resp: 1850660

Ion Ratio Lower Upper

51 100

67 0.1 13.8 20.8#



#9

Propene

Concen: 3.636 ppbv

RT: 3.21 min Scan# 132

Delta R.T. 0.20 min

Lab File: VL038105.D

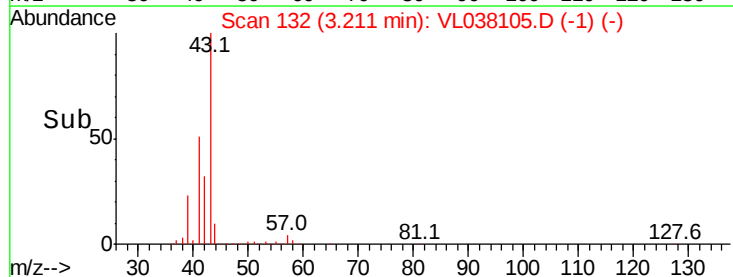
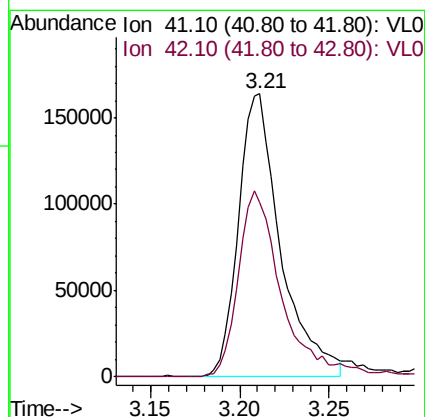
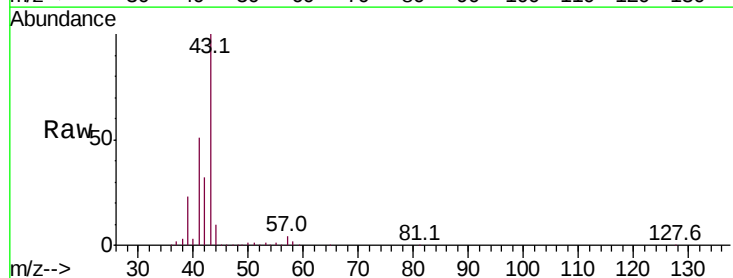
Acq: 23 Nov 2021 18:39

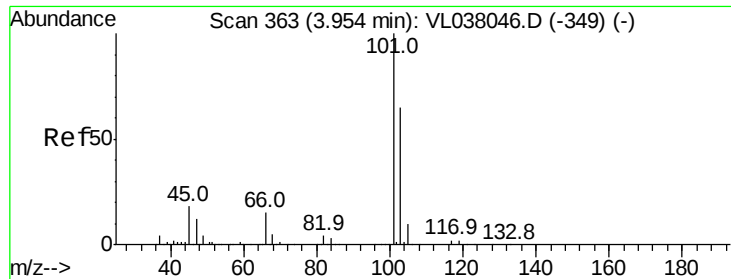
Tgt Ion: 41 Resp: 271349

Ion Ratio Lower Upper

41 100

42 69.3 53.8 80.8





#11

Trichlorofluoromethane

Concen: 0.159 ppbv

RT: 3.95 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

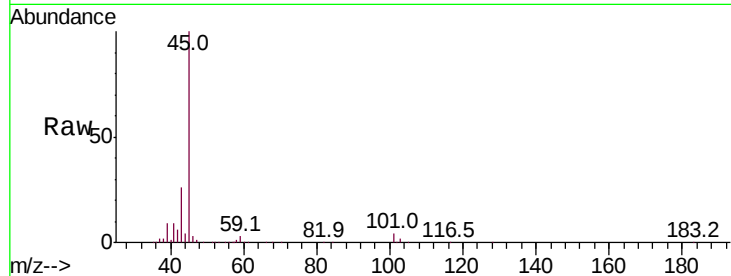
Acq: 23 Nov 2021 18:39

Tot Ion: 101 Resp: 24153

Ion Ratio Lower Upper

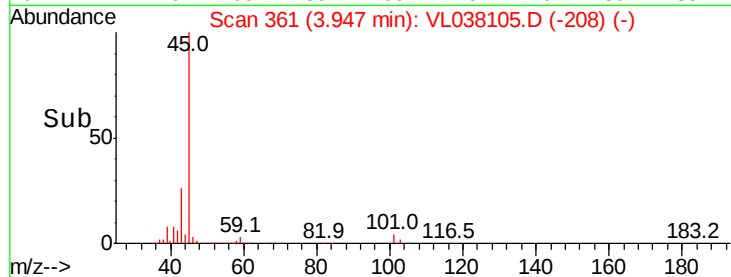
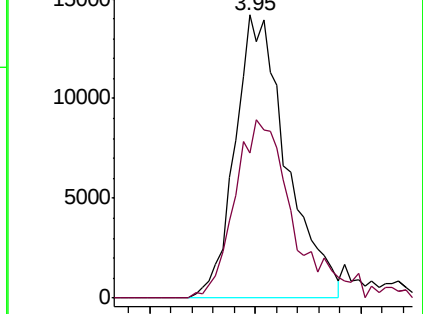
101 100

103 51.1 51.8 77.6#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#13

Ethanol

Concen: 310.806 ppbv

RT: 3.60 min Scan# 254

Delta R.T. -0.00 min

Lab File: VL038105.D

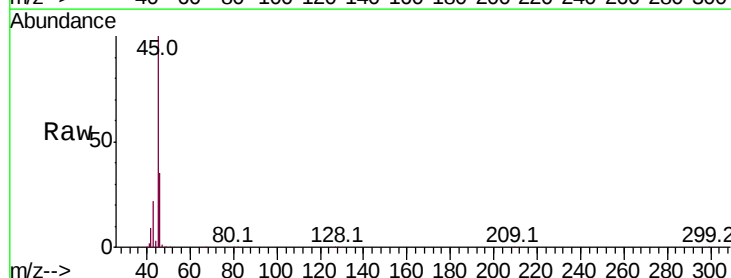
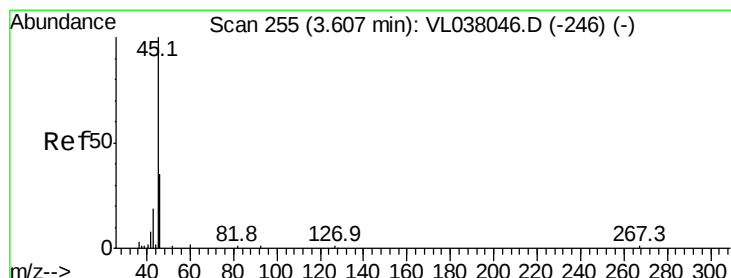
Acq: 23 Nov 2021 18:39

Tgt Ion: 45 Resp: 2241556

Ion Ratio Lower Upper

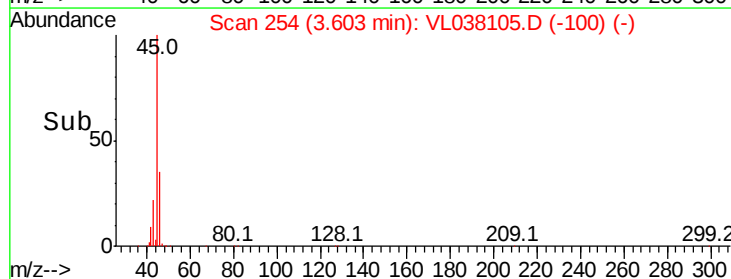
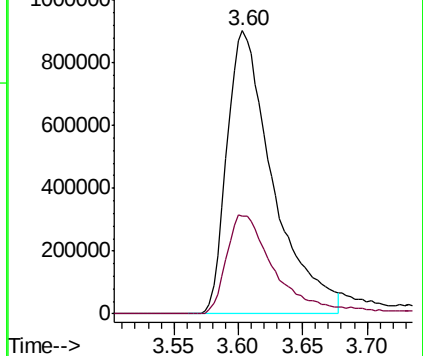
45 100

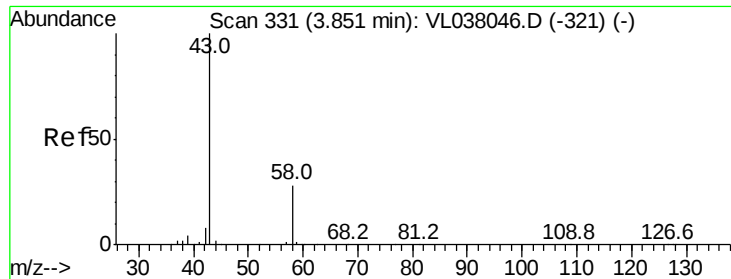
46 38.6 17.6 70.2



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 7.273 ppbv

RT: 3.85 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

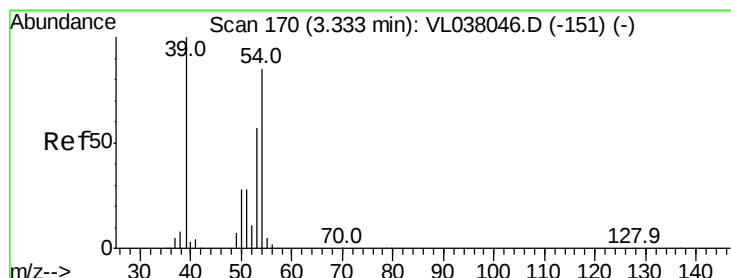
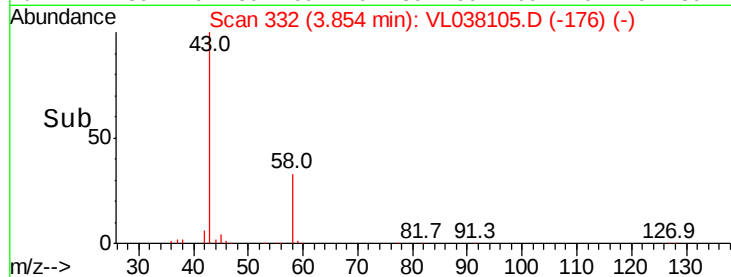
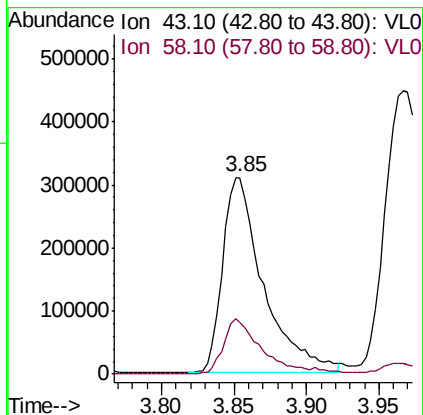
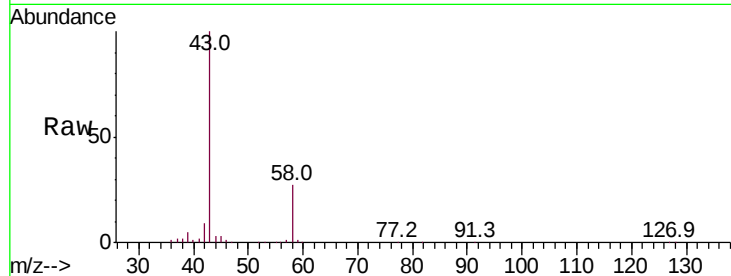
Acq: 23 Nov 2021 18:39 IA-CURATED-HOMEDL

Tot Ion: 43 Resp: 608446

Ion Ratio Lower Upper

43 100

58 27.0 22.4 33.6



#16

1,3-Butadiene

Concen: 0.484 ppbv

RT: 3.36 min Scan# 178

Delta R.T. 0.03 min

Lab File: VL038105.D

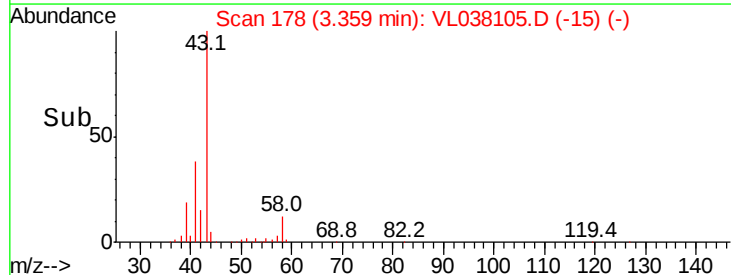
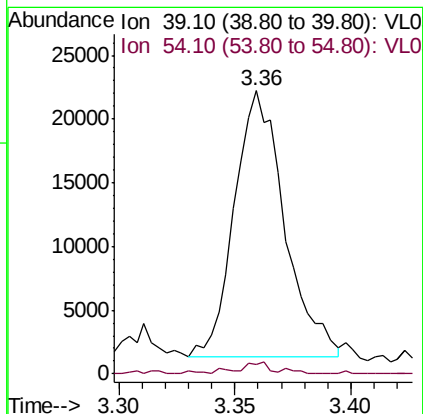
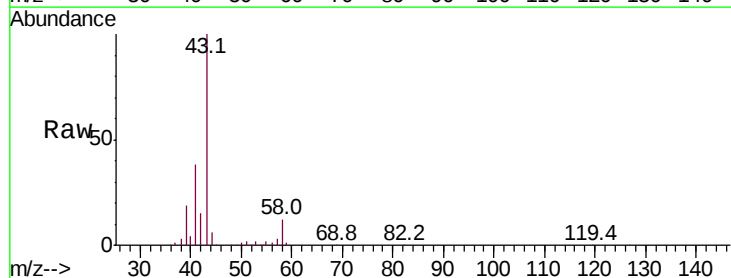
Acq: 23 Nov 2021 18:39

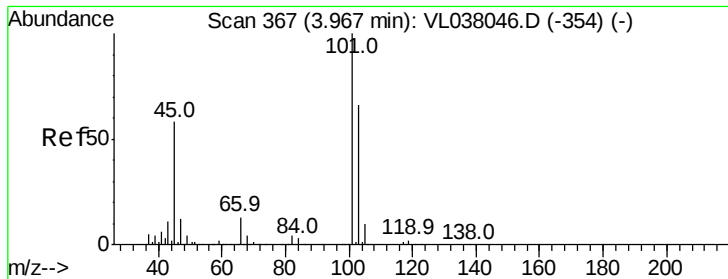
Tgt Ion: 39 Resp: 31596

Ion Ratio Lower Upper

39 100

54 4.0 64.4 96.6#





#19

Isopropyl Alcohol

Concen: 79.634 ppbv

RT: 3.97

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

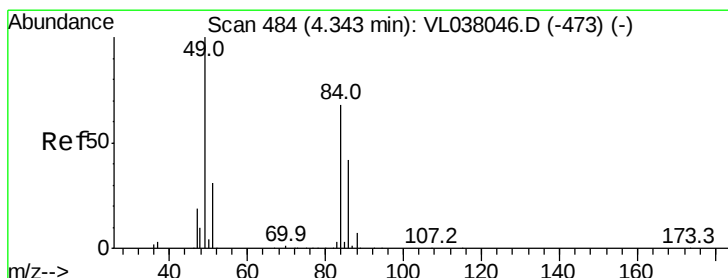
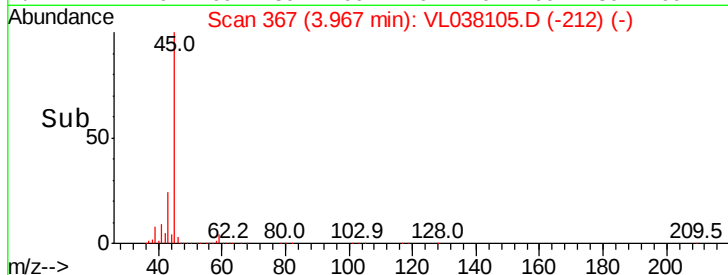
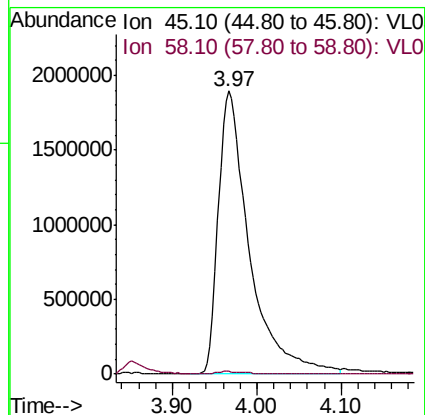
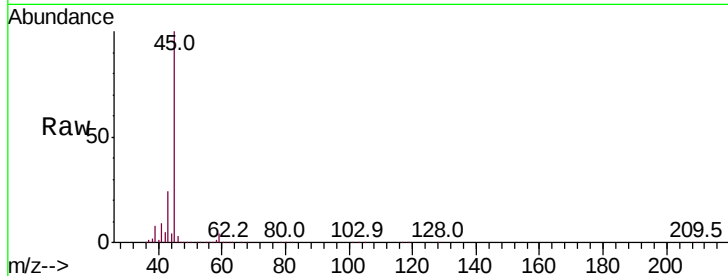
Acq: 23 Nov 2021 18:39

Tot Ion: 45 Resp: 4813821

Ion Ratio Lower Upper

45 100

58 1.1 1.4 2.0#



#20

Methylene Chloride

Concen: 2.089 ppbv

RT: 4.34 min Scan# 484

Delta R.T. -0.00 min

Lab File: VL038105.D

Acq: 23 Nov 2021 18:39

Tgt Ion: 84 Resp: 97870

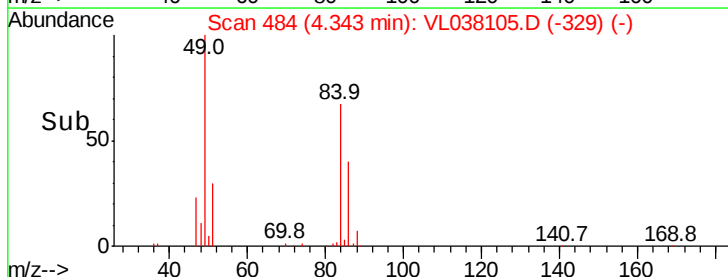
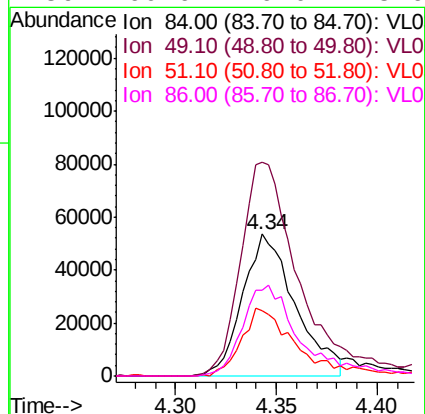
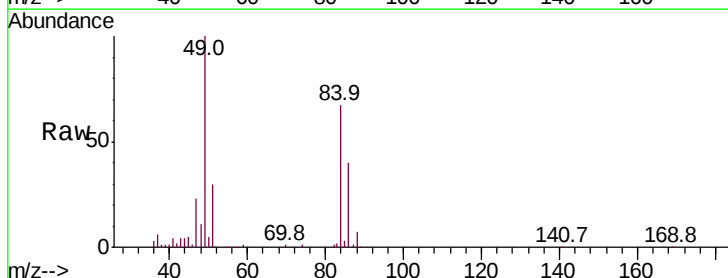
Ion Ratio Lower Upper

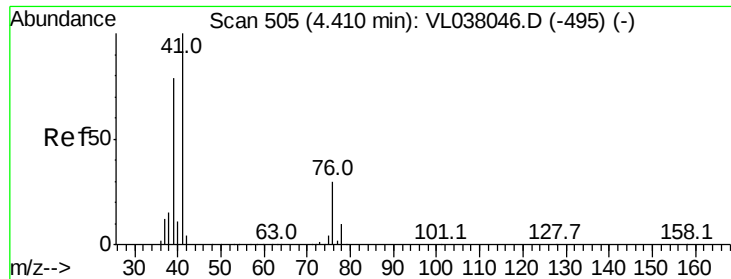
84 100

49 150.3 118.2 177.2

51 45.6 36.8 55.2

86 60.6 49.0 73.6





#21

Allvl Chloride

Concen: 0.081 ppbv

RT: 4.13 Instrument:

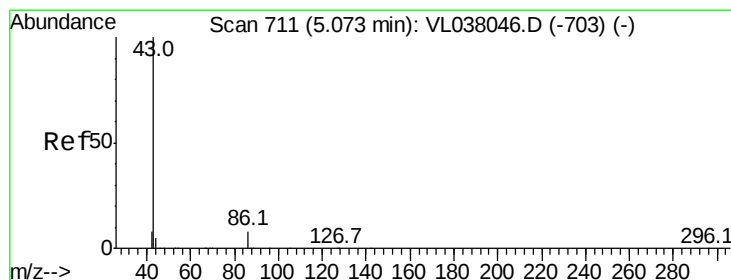
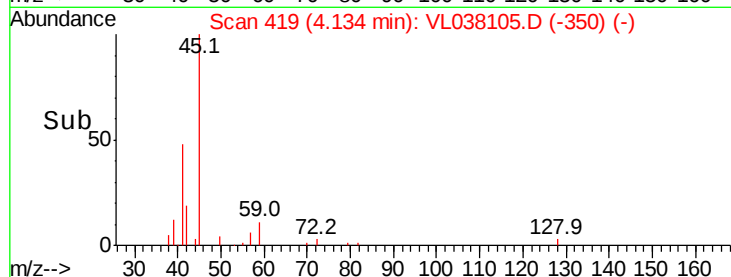
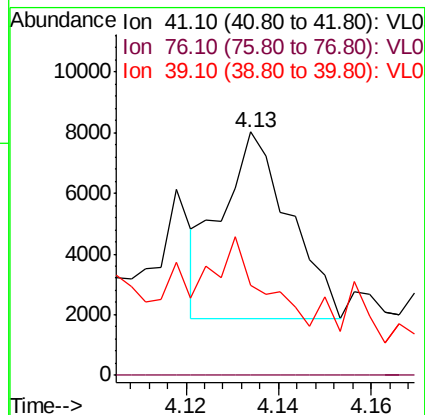
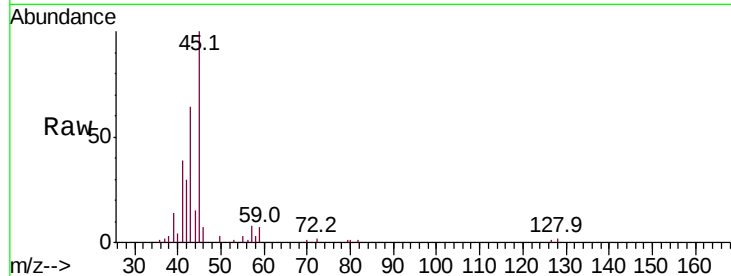
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 Nov 2021 18:39

Tot Ion: 41 Resp: 6307

Ion	Ratio	Lower	Upper
41	100		
76	0.0	24.6	36.8#
39	0.0	63.4	95.0#



#23

Vinyl Acetate

Concen: 0.062 ppbv

RT: 5.06 min Scan# 708

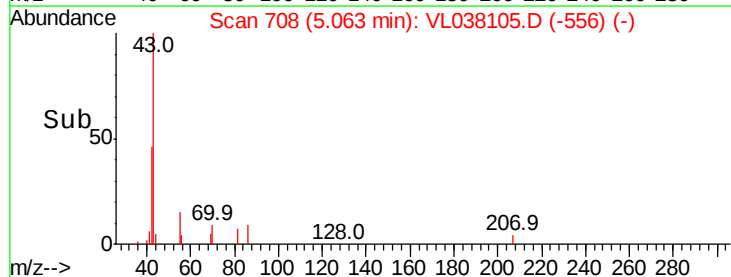
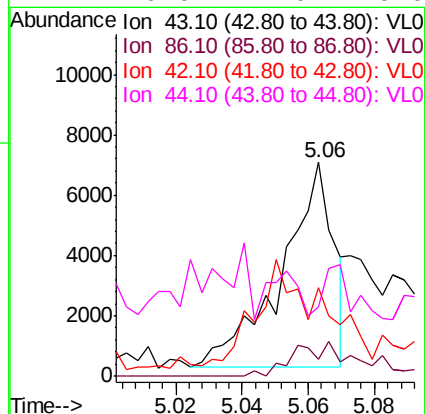
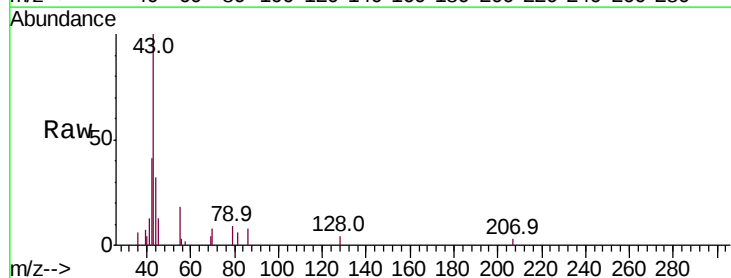
Delta R.T. -0.01 min

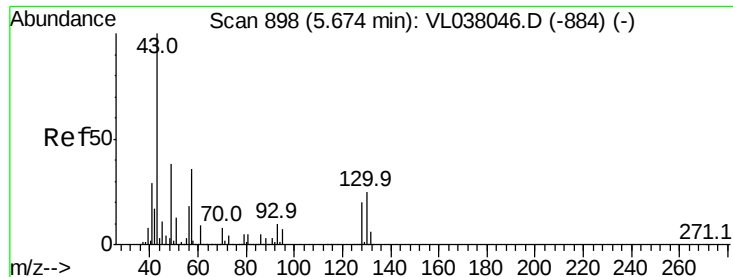
Lab File: VL038105.D

Acq: 23 Nov 2021 18:39

Tgt Ion: 43 Resp: 7490

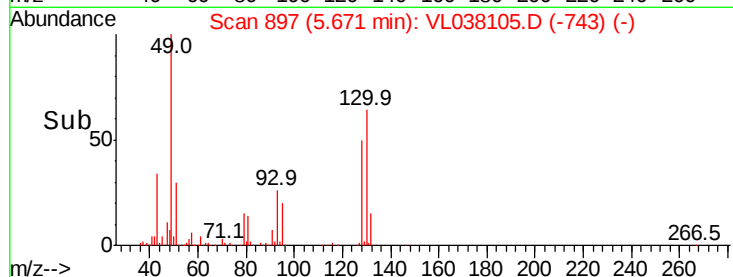
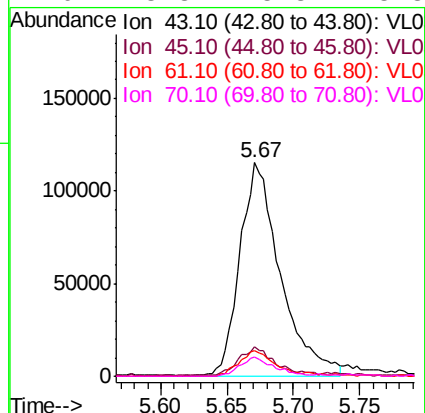
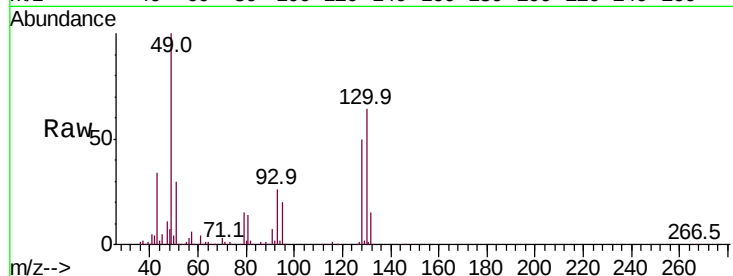
Ion	Ratio	Lower	Upper
43	100		
86	8.3	5.3	7.9#
42	33.4	7.0	10.6#
44	0.0	4.0	6.0#





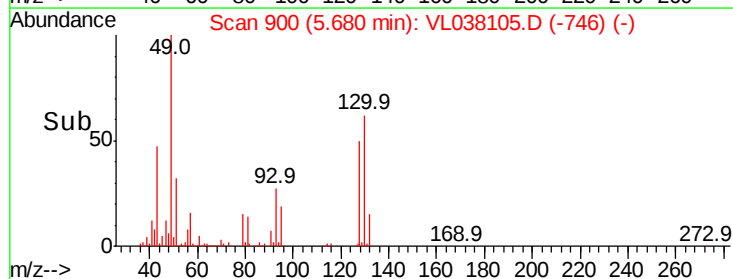
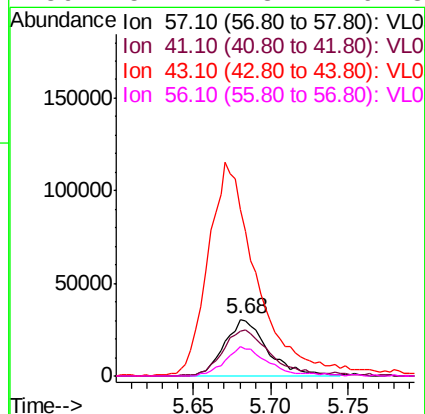
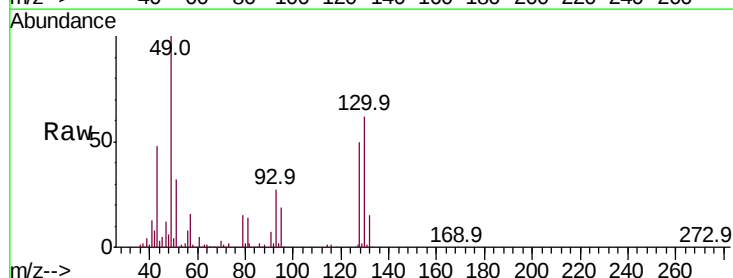
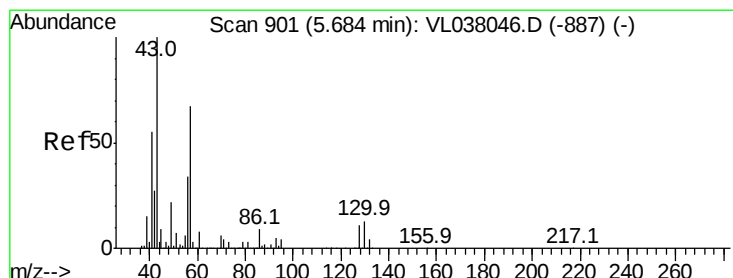
#25
Ethyl Acetate
Concen: 0.885 ppbv
RT: 5.67
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 23 Nov 2021 18:39

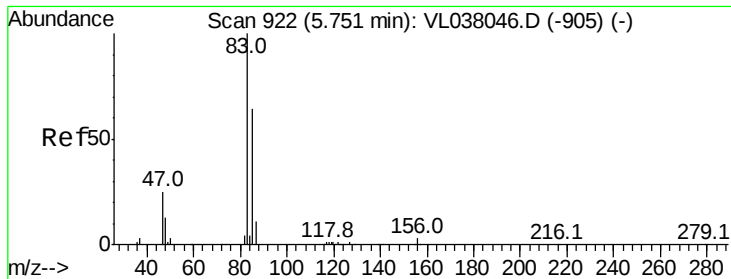
Tot Ion:	43	Resp:	245961
Ion	Ratio	Lower	Upper
43	100		
45	12.4	7.9	11.9#
61	11.6	7.8	11.6
70	8.3	5.8	8.8



#26
Hexane
Concen: 0.442 ppbv
RT: 5.68 min Scan# 900
Delta R.T. -0.00 min
Lab File: VL038105.D
Acq: 23 Nov 2021 18:39

Tgt Ion:	57	Resp:	59289
Ion	Ratio	Lower	Upper
57	100		
41	93.7	71.4	107.2
43	433.5	174.6	261.8#
56	51.1	43.2	64.8





#29

Chloroform

Concen: 0.090 ppbv

RT: 5.74 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

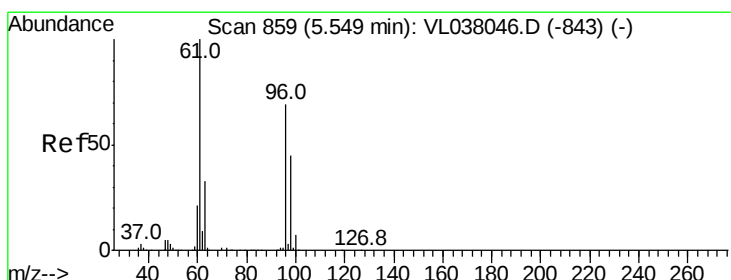
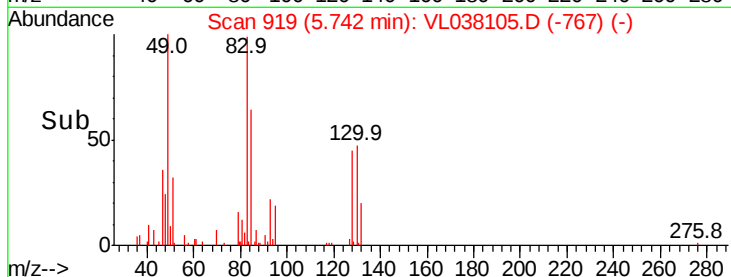
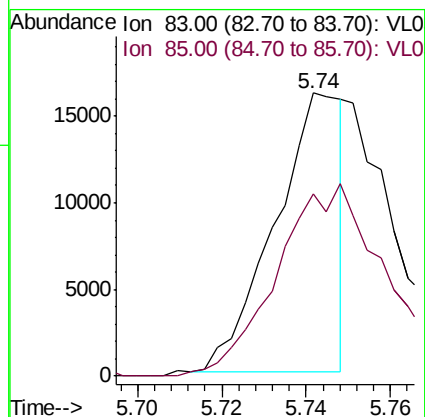
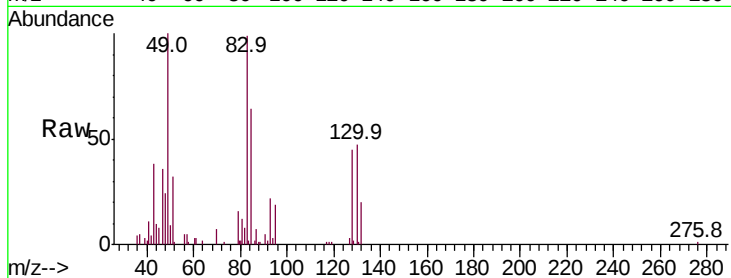
Acq: 23 Nov 2021 18:39

Tot Ion: 83 Resp: 17808

Ion Ratio Lower Upper

83 100

85 64.2 51.0 76.6



#31

cis-1,2-Dichloroethene

Concen: 0.197 ppbv

RT: 5.67 min Scan# 897

Delta R.T. 0.12 min

Lab File: VL038105.D

Acq: 23 Nov 2021 18:39

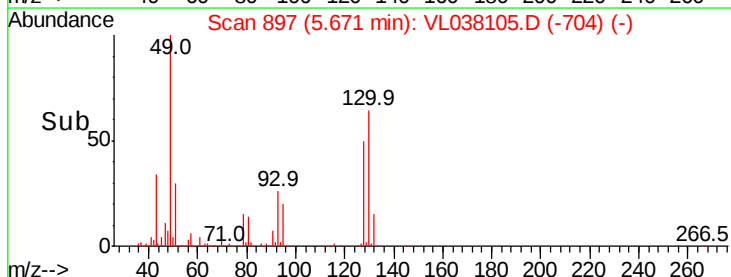
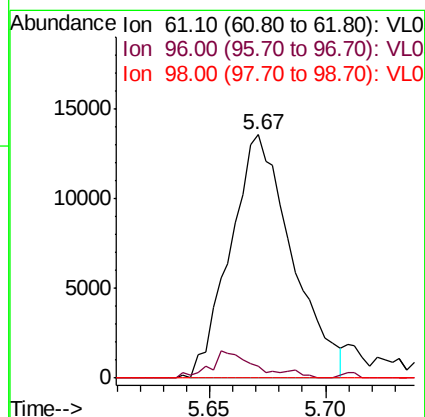
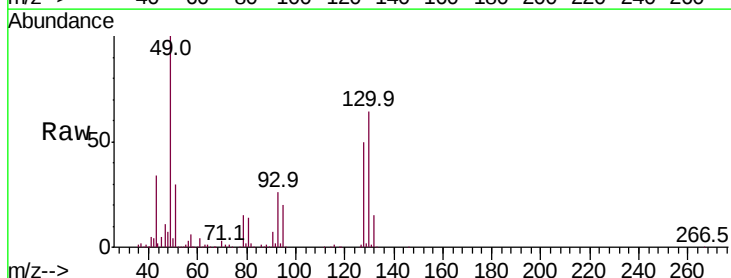
Tgt Ion: 61 Resp: 25058

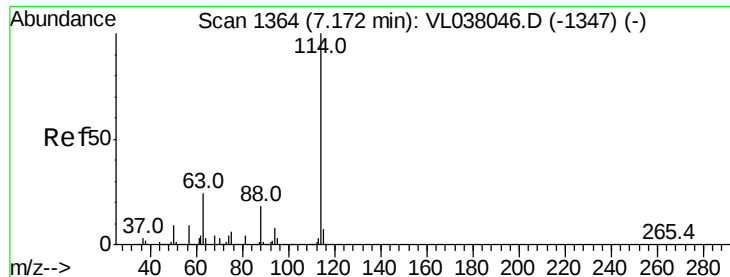
Ion Ratio Lower Upper

61 100

96 3.5 55.4 83.2#

98 0.0 35.7 53.5#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 Nov 2021 18:39

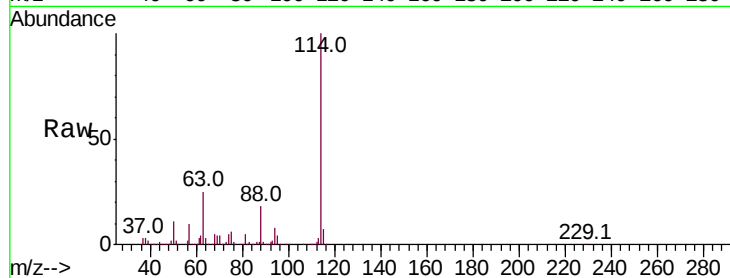
Tot Ion:114 Resp: 2708957

Ion Ratio Lower Upper

114 100

63 25.2 19.7 29.5

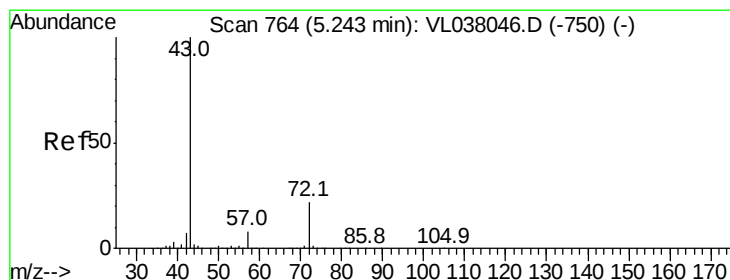
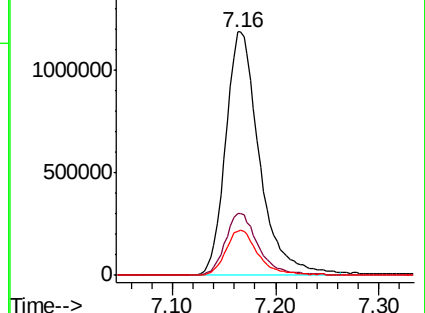
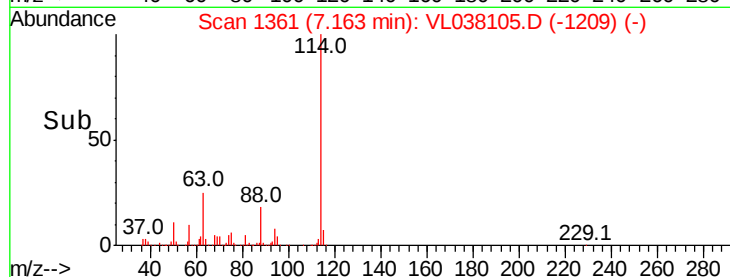
88 18.1 14.4 21.6



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: 0.091 ppbv

RT: 5.25 min Scan# 765

Delta R.T. 0.00 min

Lab File: VL038105.D

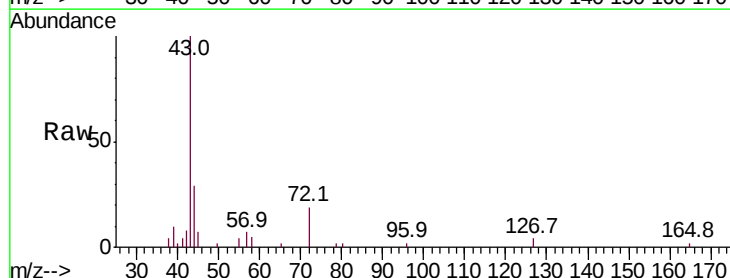
Acq: 23 Nov 2021 18:39

Tgt Ion: 43 Resp: 9933

Ion Ratio Lower Upper

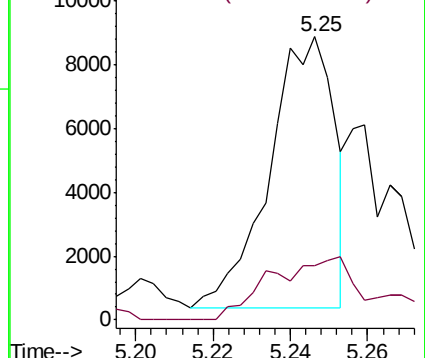
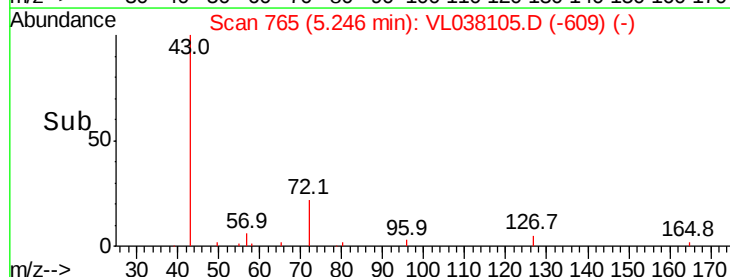
43 100

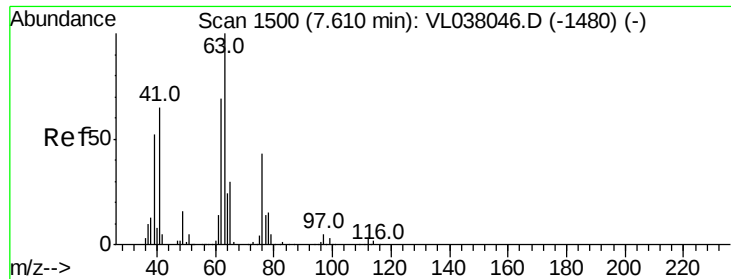
72 37.3 18.8 28.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0

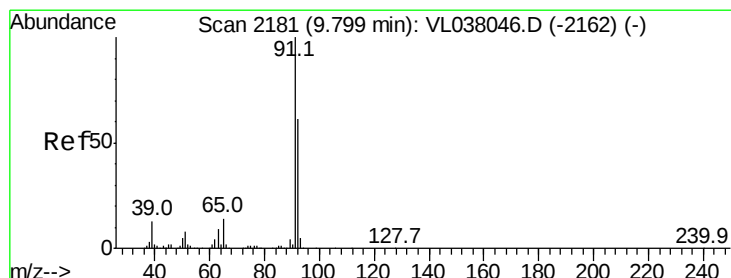
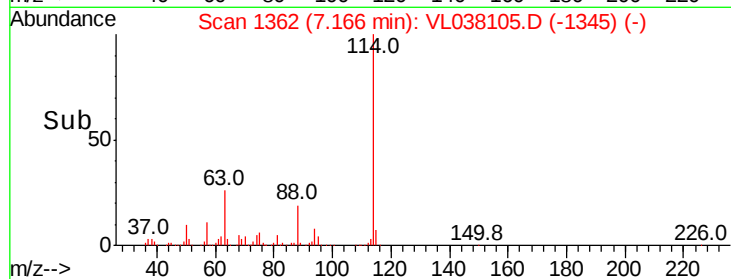
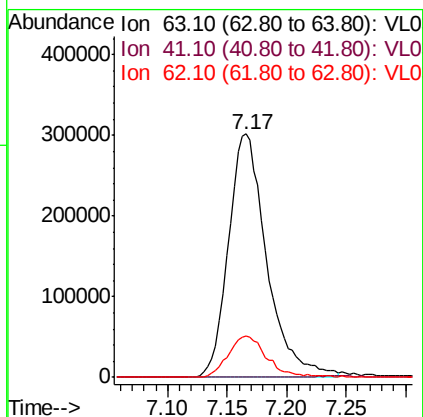
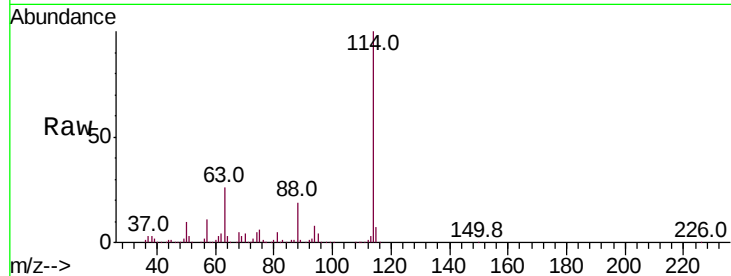
Ion 72.10 (71.80 to 72.80): VL0





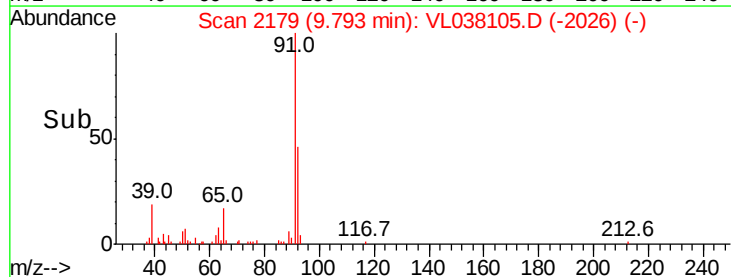
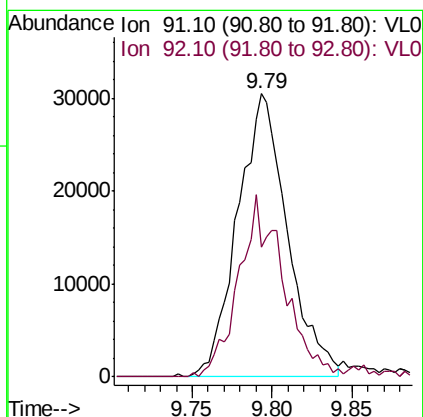
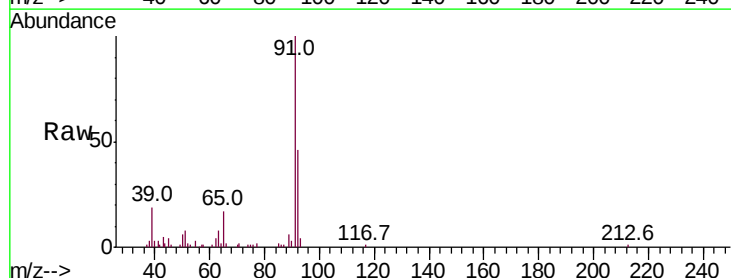
#39
 1,2-Dichloropropane
 Concen: 6.506 ppbv
 RT: 7.17
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 23 Nov 2021 18:39

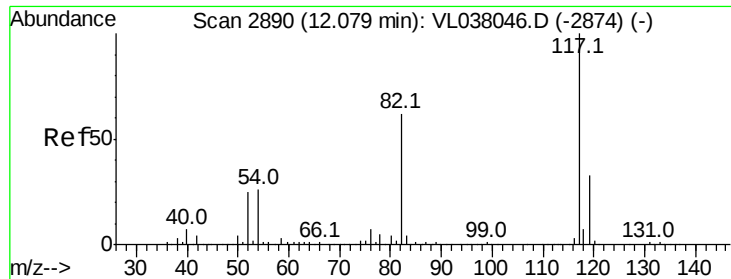
Tot Ion: 63 Resp: 674422
 Ion Ratio Lower Upper
 63 100
 41 0.1 52.3 78.5#
 62 17.0 55.1 82.7#



#53
 Toluene
 Concen: 0.210 ppbv
 RT: 9.79 min Scan# 2179
 Delta R.T. -0.01 min
 Lab File: VL038105.D
 Acq: 23 Nov 2021 18:39

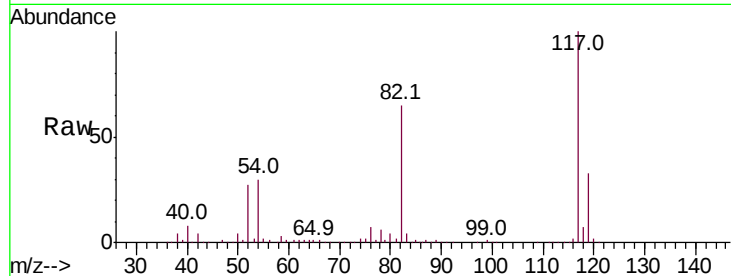
Tgt Ion: 91 Resp: 65191
 Ion Ratio Lower Upper
 91 100
 92 57.6 49.7 74.5



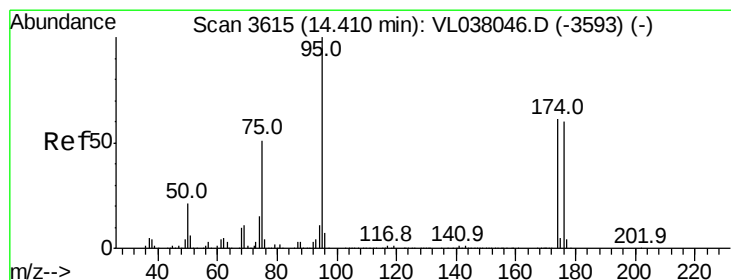
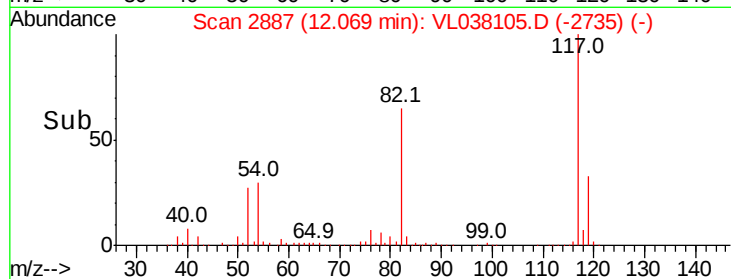
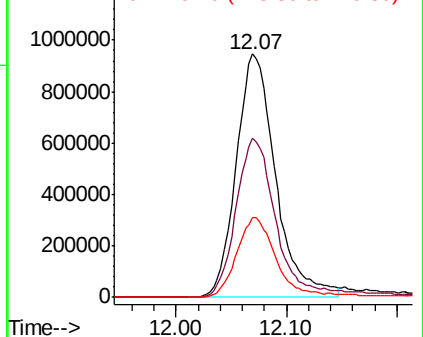


#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.07 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 23 Nov 2021 18:39

Tot Ion: 117 Resp: 2348341
 Ion Ratio Lower Upper
 117 100
 82 69.8 52.8 79.2
 119 35.1 26.8 40.2

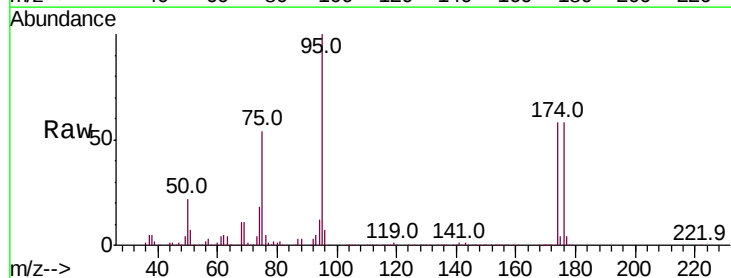


Abundance Ion 117.10 (116.80 to 117.80): V
 Ion 82.10 (81.80 to 82.80): VL0
 Ion 119.10 (118.80 to 119.80): V



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.557 ppbv
 RT: 14.40 min Scan# 3612
 Delta R.T.: -0.01 min
 Lab File: VL038105.D
 Acq: 23 Nov 2021 18:39

Tgt Ion: 95 Resp: 1788271
 Ion Ratio Lower Upper
 95 100
 174 64.7 53.1 79.7
 175 4.6 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

