

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112321\
 Data File : VL038109.D
 Acq On : 23 Nov 2021 21:15
 Operator : SY/AP
 Sample : M4805-10DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-EDIBLE-ARRANGEMENTSDL

Quant Time: Nov 24 06:55:51 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	861535	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	2583733	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	2236524	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	1728648	10.72	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.20%

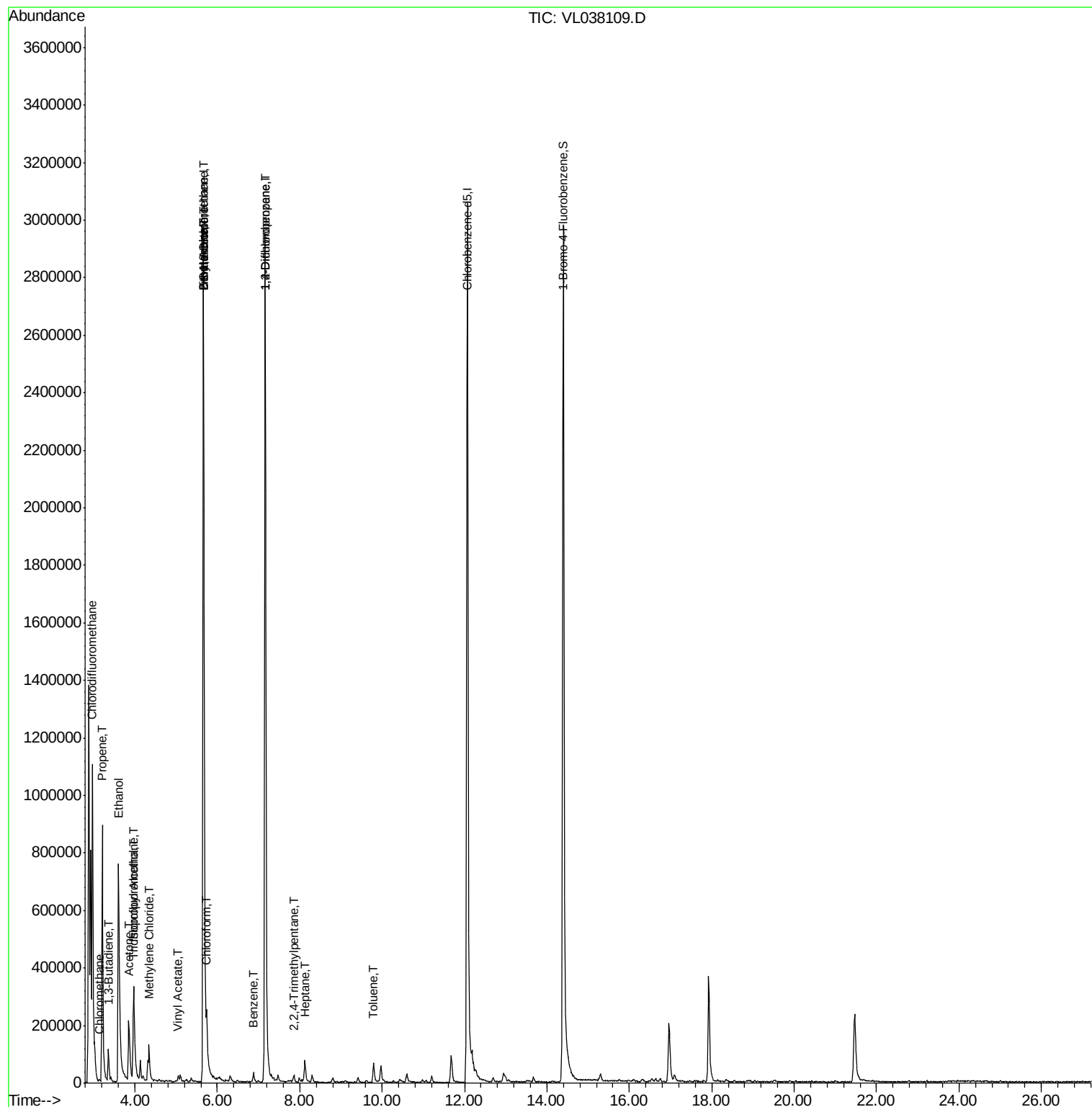
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.97	51	1003942	5.549	ppbv #	63
4) Chloromethane	3.14	50	2127	0.035	ppbv	92
9) Propene	3.21	41	310751	4.664	ppbv	95
10) Heptane	8.11	43	5652	0.034	ppbv #	20
11) Trichlorofluoromethane	3.95	101	7376	0.054	ppbv	99
13) Ethanol	3.60	45	1168486	181.466	ppbv	90
15) Acetone	3.85	43	262465	3.514	ppbv	99
16) 1,3-Butadiene	3.36	39	15167	0.260	ppbv #	12
19) Isopropyl Alcohol	3.97	45	500984	9.282	ppbv #	97
20) Methylene Chloride	4.34	84	41646	0.995	ppbv	95
23) Vinyl Acetate	5.05	43	6921	0.064	ppbv #	1
25) Ethyl Acetate	5.66	43	2197211	8.851	ppbv #	89
26) Hexane	5.68	57	17213	0.144	ppbv #	1
29) Chloroform	5.74	83	43365	0.246	ppbv	90
31) cis-1,2-Dichloroethene	5.66	61	275281	2.418	ppbv #	22
34) 2-Butanone	5.66	43	2123776	20.385	ppbv #	52
36) Benzene	6.87	78	24168	0.094	ppbv #	93
39) 1,2-Dichloropropane	7.16	63	644625	6.520	ppbv #	26
44) 2,2,4-Trimethylpentane	7.85	57	21663	0.050	ppbv #	75
53) Toluene	9.79	91	46221	0.156	ppbv	95

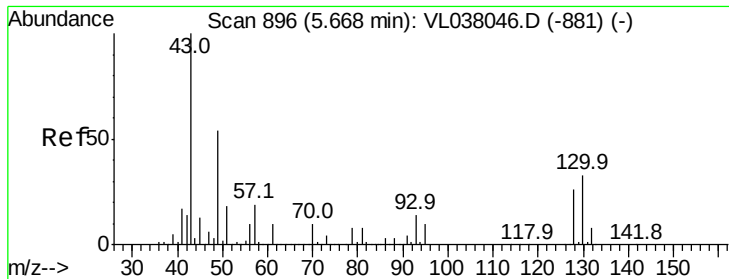
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 Nov 2021 21:15

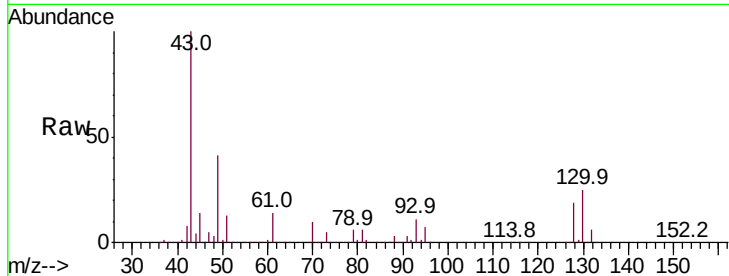
Tot Ion: 49 Resp: 861535

Ion Ratio Lower Upper

49 100

128 49.8 26.5 79.5

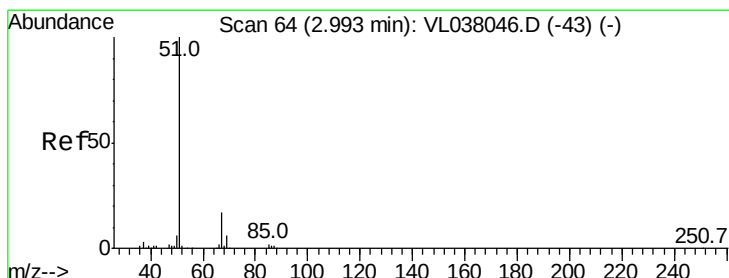
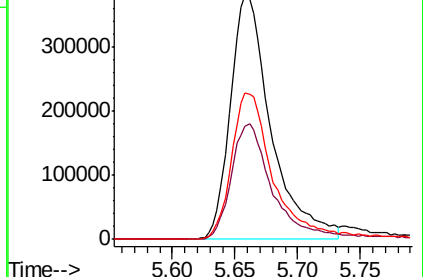
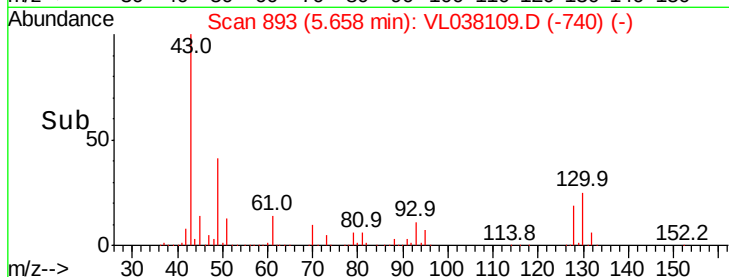
130 64.4 32.5 97.4



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: 5.549 ppbv

RT: 2.97 min Scan# 57

Delta R.T. -0.02 min

Lab File: VL038109.D

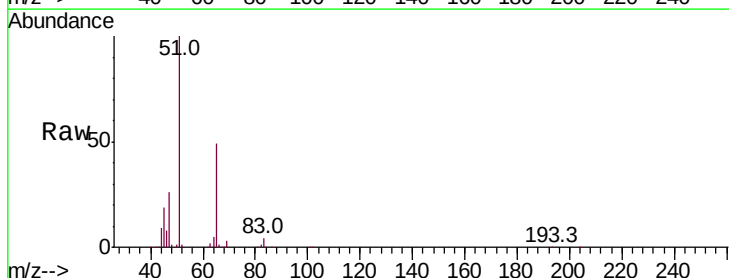
Acq: 23 Nov 2021 21:15

Tgt Ion: 51 Resp: 1003942

Ion Ratio Lower Upper

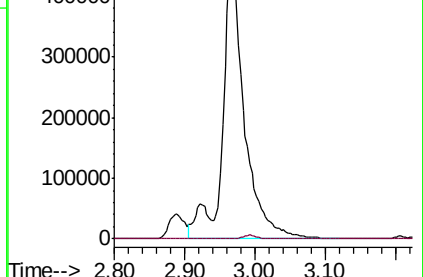
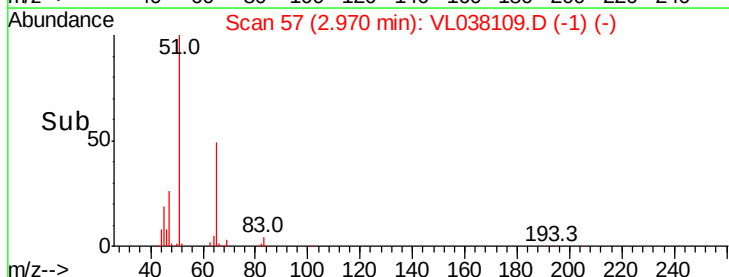
51 100

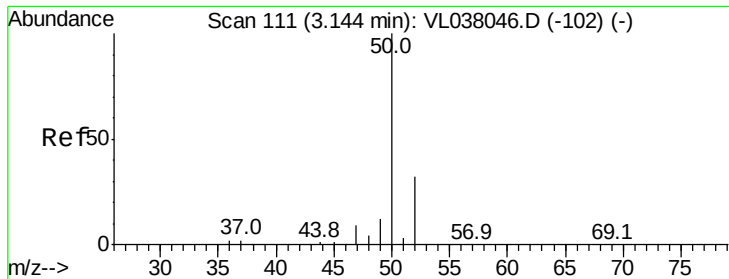
67 1.0 13.8 20.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.035 ppbv

RT: 3.14 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

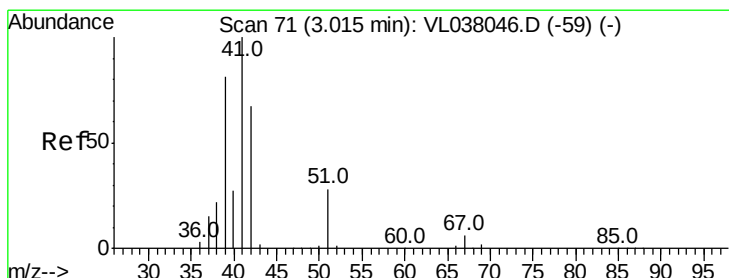
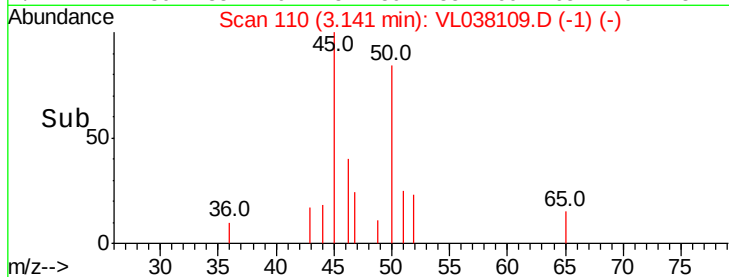
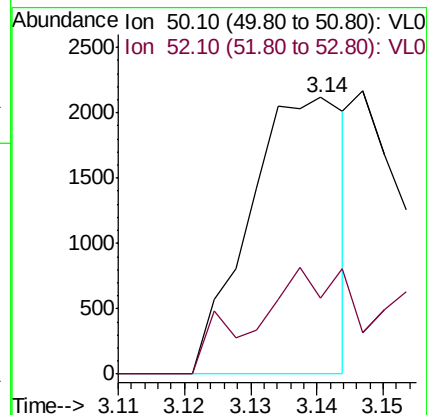
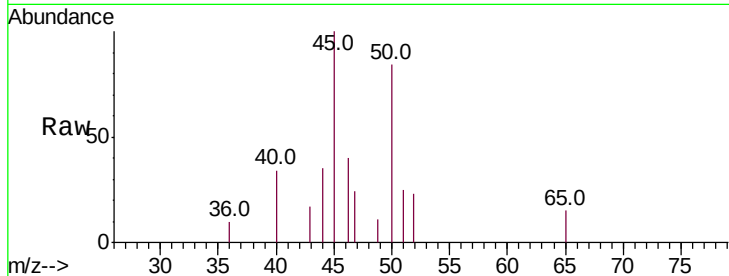
Acq: 23 Nov 2021 21:15

Tot Ion: 50 Resp: 2127

Ion Ratio Lower Upper

50 100

52 27.2 25.4 38.0



#9

Propene

Concen: 4.664 ppbv

RT: 3.21 min Scan# 131

Delta R.T. 0.19 min

Lab File: VL038109.D

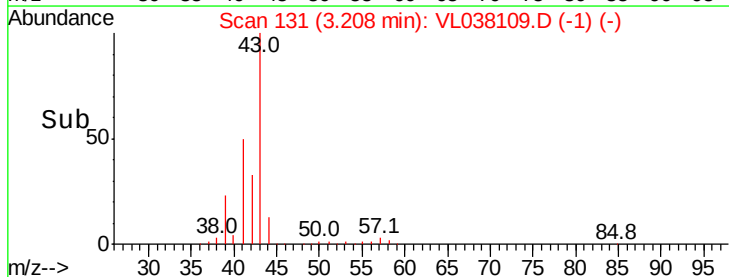
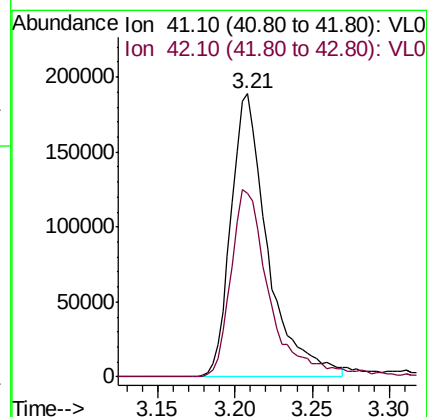
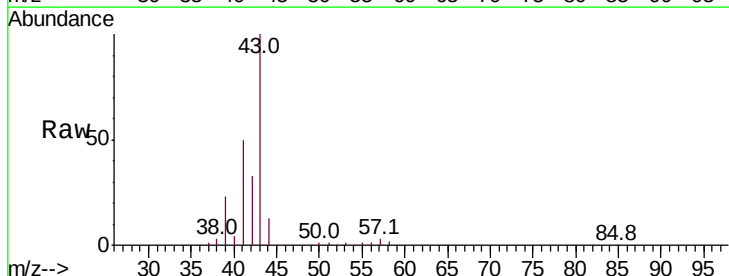
Acq: 23 Nov 2021 21:15

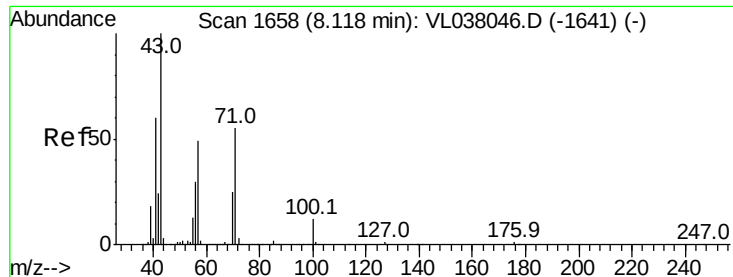
Tgt Ion: 41 Resp: 310751

Ion Ratio Lower Upper

41 100

42 71.2 53.8 80.8





#10

Heptane

Concen: 0.034 ppbv

RT: 8.11 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

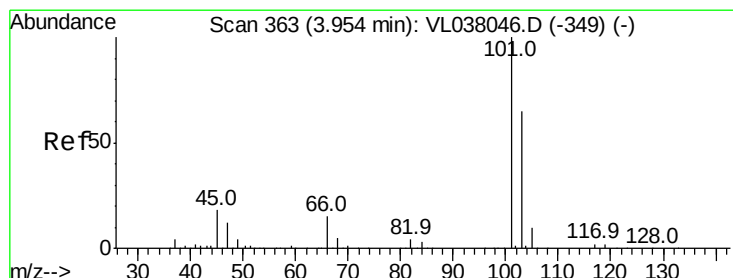
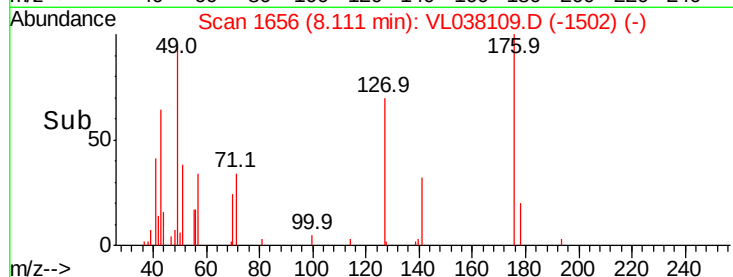
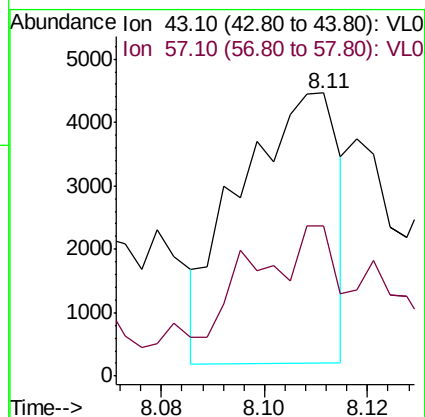
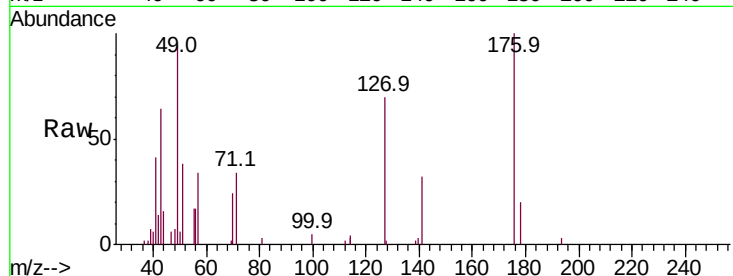
Acq: 23 Nov 2021 21:15

Tot Ion: 43 Resp: 5652

Ion Ratio Lower Upper

43 100

57 105.7 40.4 60.6#



#11

Trichlorofluoromethane

Concen: 0.054 ppbv

RT: 3.95 min Scan# 361

Delta R.T. -0.01 min

Lab File: VL038109.D

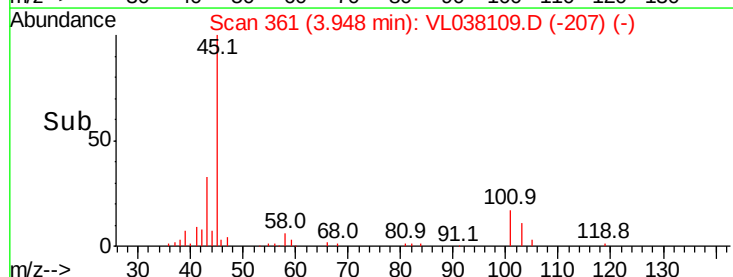
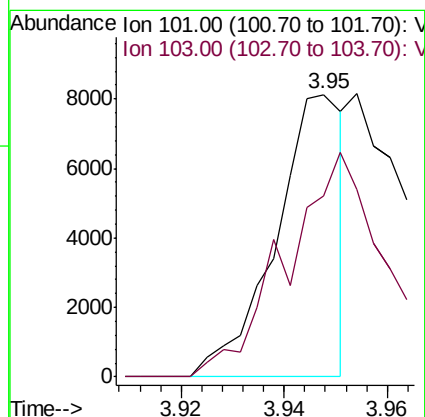
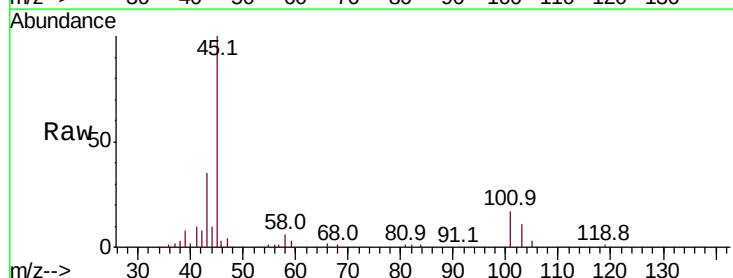
Acq: 23 Nov 2021 21:15

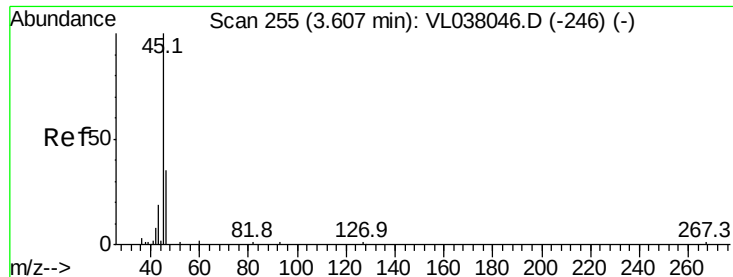
Tgt Ion: 101 Resp: 7376

Ion Ratio Lower Upper

101 100

103 64.0 51.8 77.6





#13

Ethanol

Concen: 181.466 ppbv

RT: 3.60 Instrument: MSVOA_1

Delta R.T. 0.00 min

Lab File: ClientSampleId:

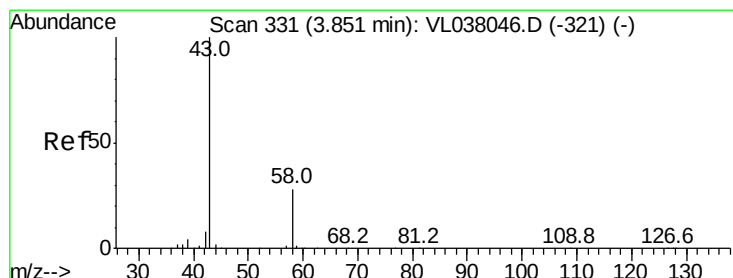
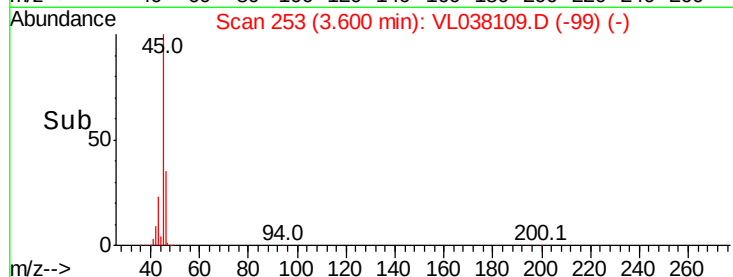
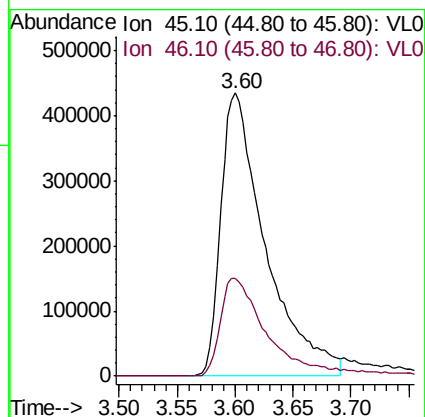
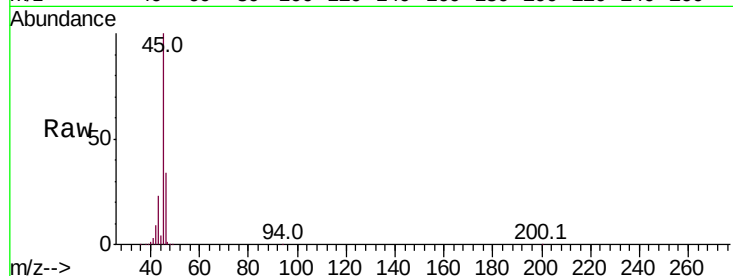
Acq: 23 Nov 2021 21:15

Tot Ion: 45 Resp: 1168486

Ion Ratio Lower Upper

45 100

46 37.5 17.6 70.2



#15

Acetone

Concen: 3.514 ppbv

RT: 3.85 min Scan# 331

Delta R.T. 0.00 min

Lab File: VL038109.D

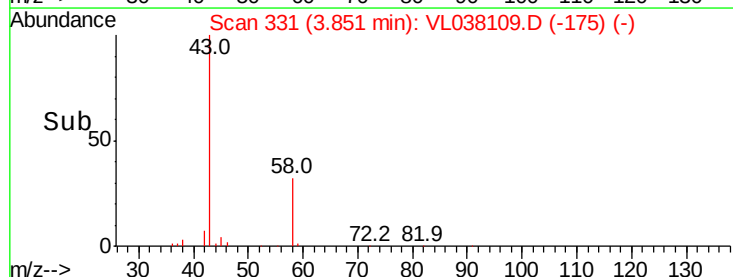
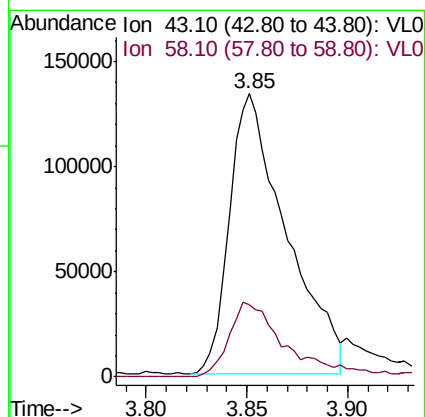
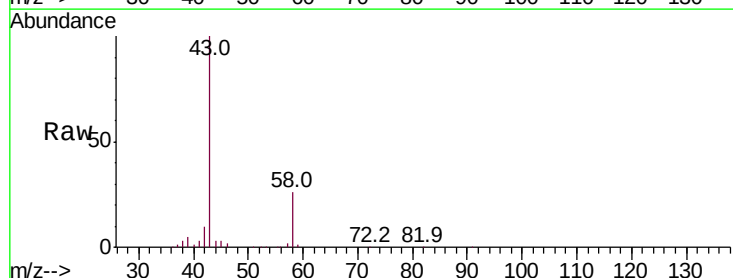
Acq: 23 Nov 2021 21:15

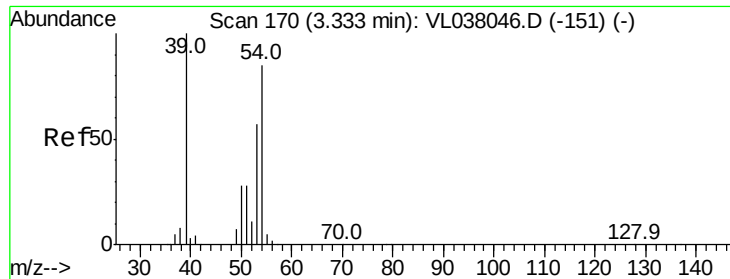
Tgt Ion: 43 Resp: 262465

Ion Ratio Lower Upper

43 100

58 27.4 22.4 33.6





#16

1,3-Butadiene

Concen: 0.260 ppbv

RT: 3.36 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

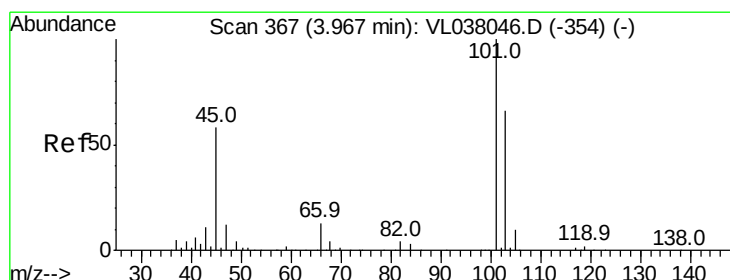
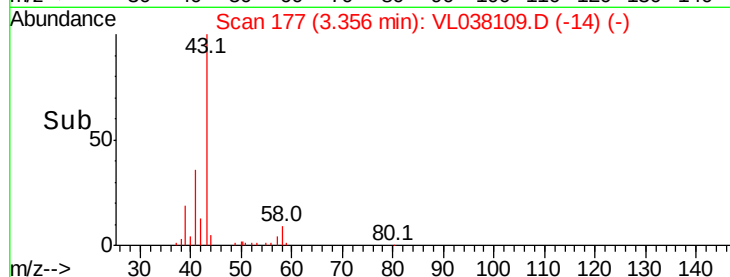
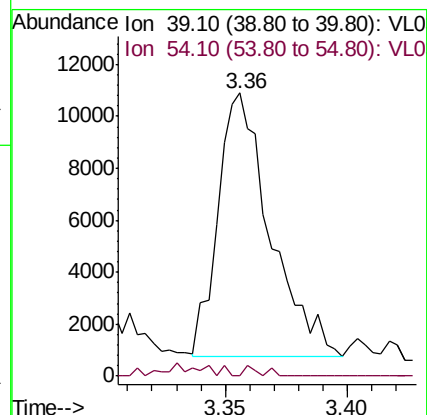
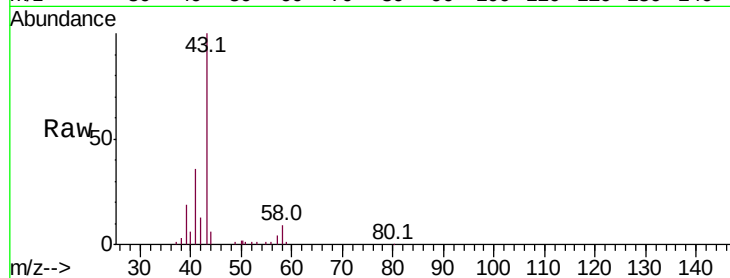
Acq: 23 Nov 2021 21:15

Tot Ion: 39 Resp: 15167

Ion Ratio Lower Upper

39 100

54 2.3 64.4 96.6#



#19

Isopropyl Alcohol

Concen: 9.282 ppbv

RT: 3.97 min Scan# 368

Delta R.T. 0.00 min

Lab File: VL038109.D

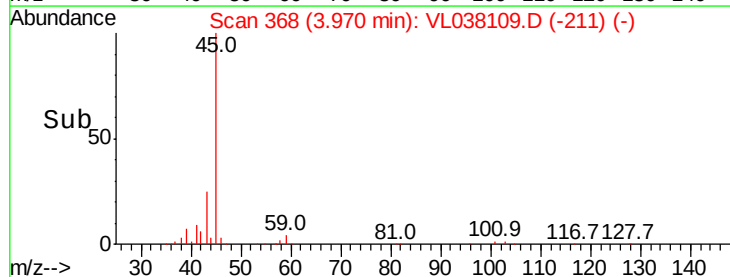
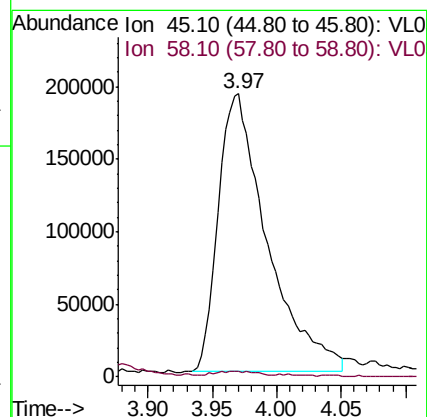
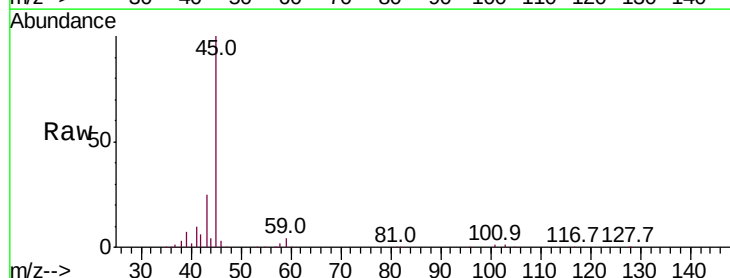
Acq: 23 Nov 2021 21:15

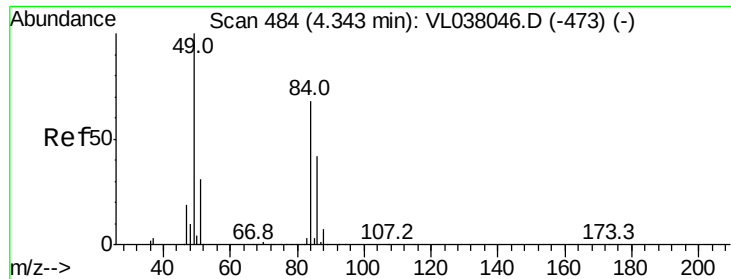
Tgt Ion: 45 Resp: 500984

Ion Ratio Lower Upper

45 100

58 2.9 1.4 2.0#





#20

Methylene Chloride

Concen: 0.995 ppbv

RT: 4.34 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 Nov 2021 21:15

Tot Ion: 84 Resp: 41646

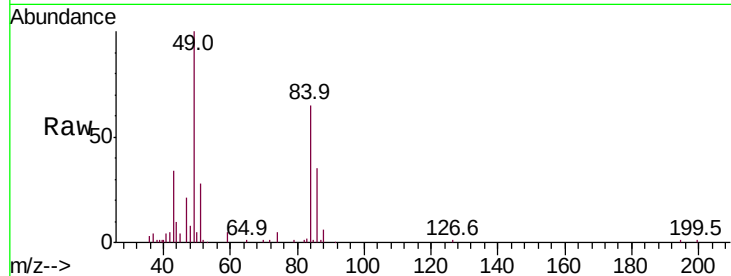
Ion Ratio Lower Upper

84 100

49 153.3 118.2 177.2

51 45.2 36.8 55.2

86 54.0 49.0 73.6

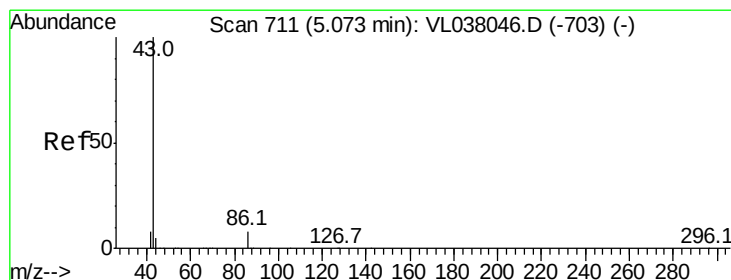
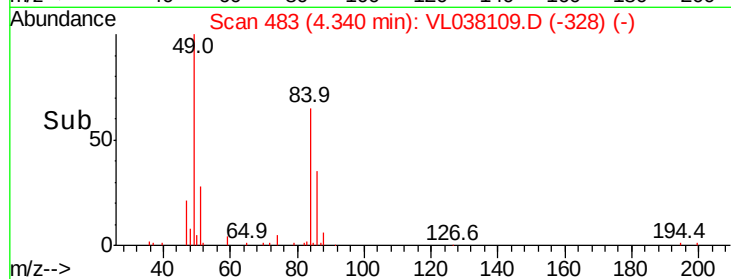
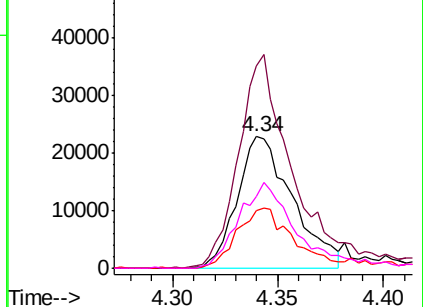


Abundance Ion 84.00 (83.70 to 84.70): VL0

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: 0.064 ppbv

RT: 5.05 min Scan# 705

Delta R.T. -0.02 min

Lab File: VL038109.D

Acq: 23 Nov 2021 21:15

Tgt Ion: 43 Resp: 6921

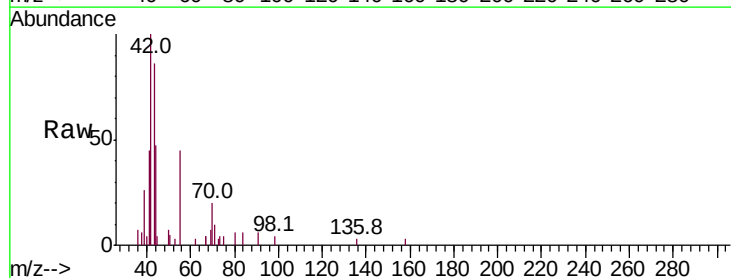
Ion Ratio Lower Upper

43 100

86 0.0 5.3 7.9#

42 108.7 7.0 10.6#

44 0.8 4.0 6.0#

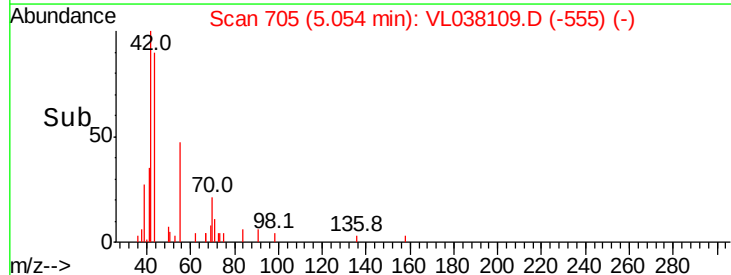
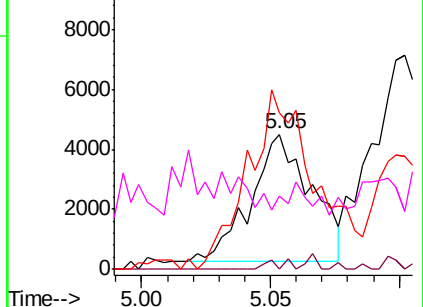


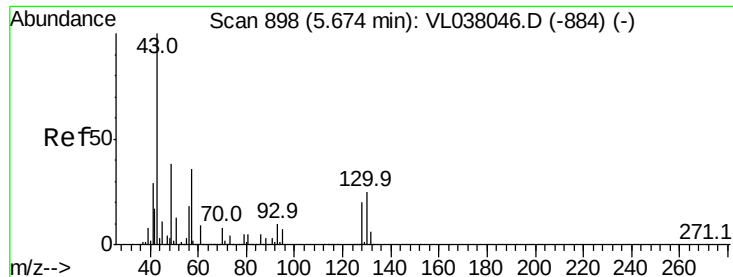
Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 8.851 ppbv

RT: 5.66 Instrument:

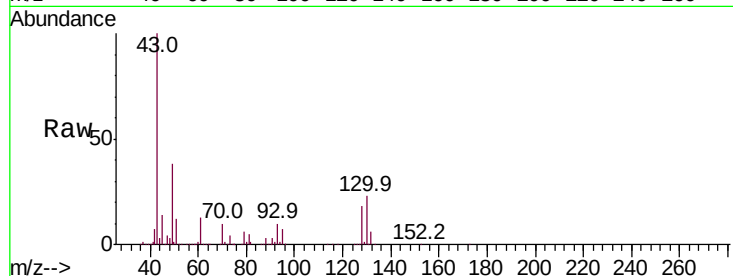
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 Nov 2021 21:15

Tot Ion: 43 Resp: 2197211

Ion	Ratio	Lower	Upper
43	100		
45	14.7	7.9	11.9#
61	13.4	7.8	11.6#
70	10.4	5.8	8.8#

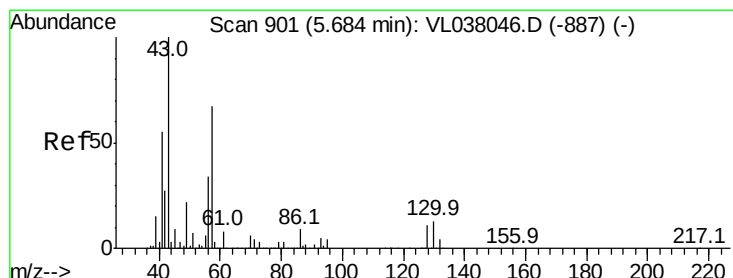
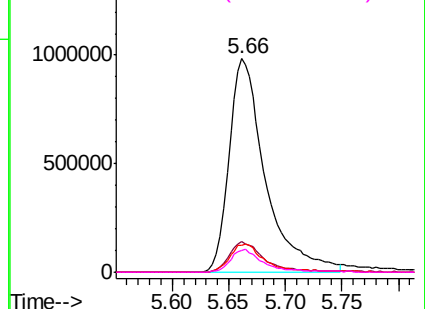
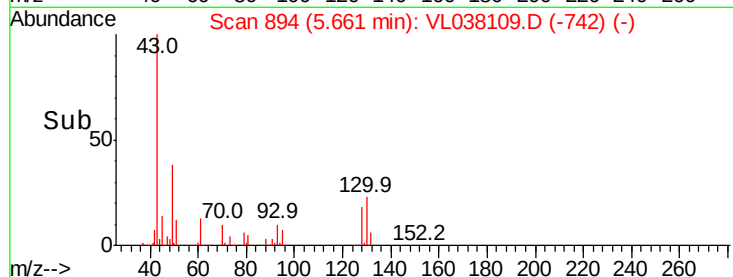


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 0.144 ppbv

RT: 5.68 min Scan# 899

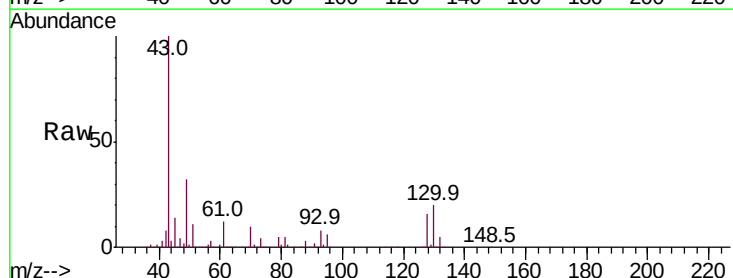
Delta R.T. -0.01 min

Lab File: VL038109.D

Acq: 23 Nov 2021 21:15

Tgt Ion: 57 Resp: 17213

Ion	Ratio	Lower	Upper
57	100		
41	0.0	71.4	107.2#
43	13602.5	174.6	261.8#
56	0.0	43.2	64.8#

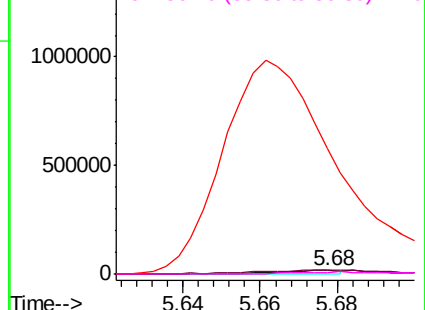
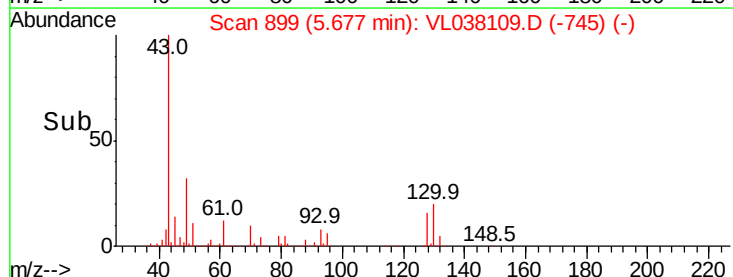


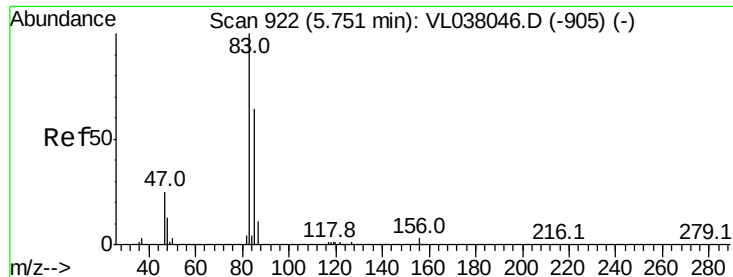
Abundance Ion 57.10 (56.80 to 57.80): VL0

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





#29

Chloroform

Concen: 0.246 ppbv

RT: 5.74 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

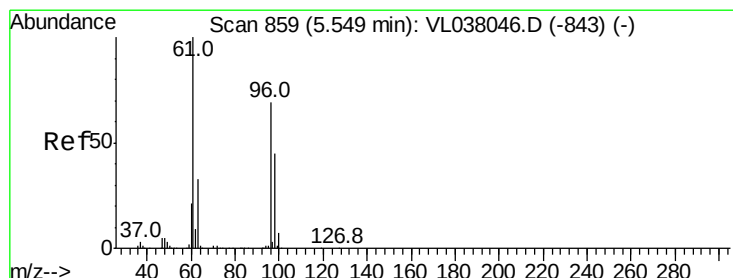
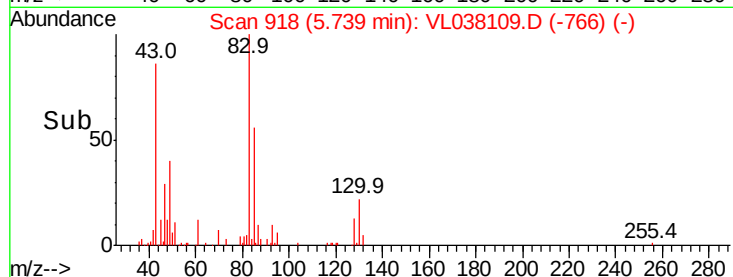
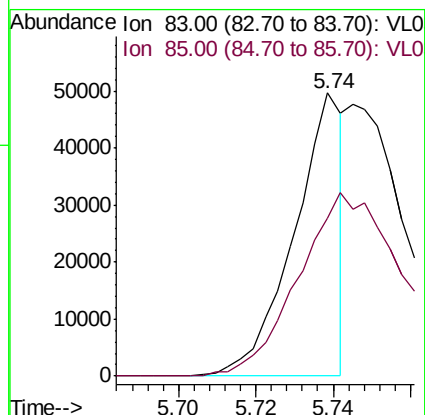
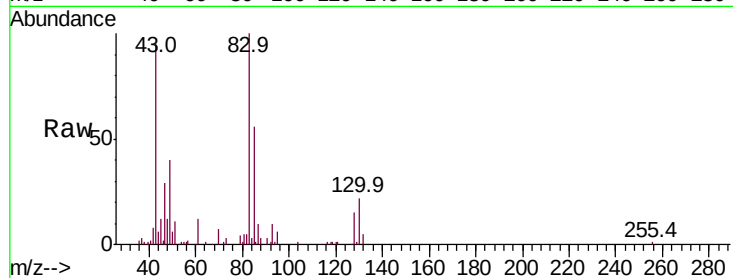
Acq: 23 Nov 2021 21:15

Tot Ion: 83 Resp: 43365

Ion Ratio Lower Upper

83 100

85 55.9 51.0 76.6



#31

cis-1,2-Dichloroethene

Concen: 2.418 ppbv

RT: 5.66 min Scan# 895

Delta R.T. 0.12 min

Lab File: VL038109.D

Acq: 23 Nov 2021 21:15

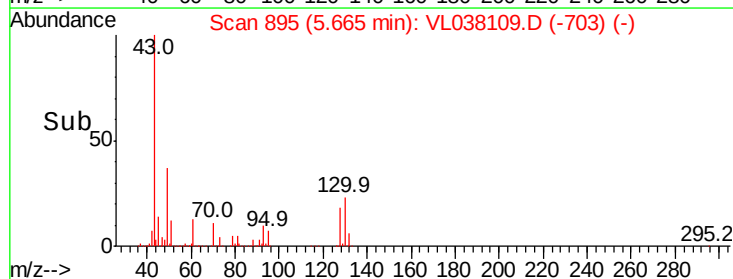
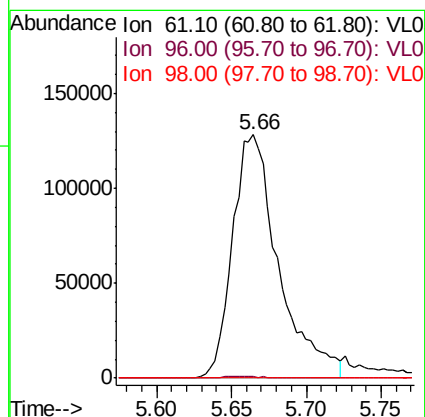
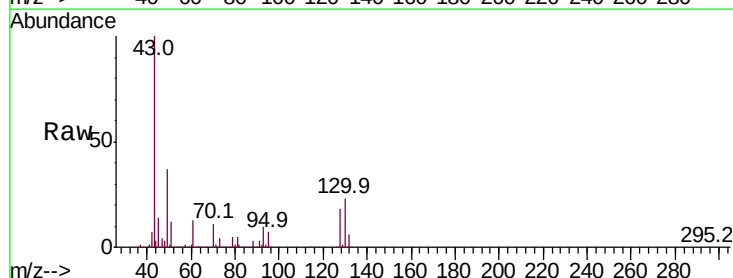
Tgt Ion: 61 Resp: 275281

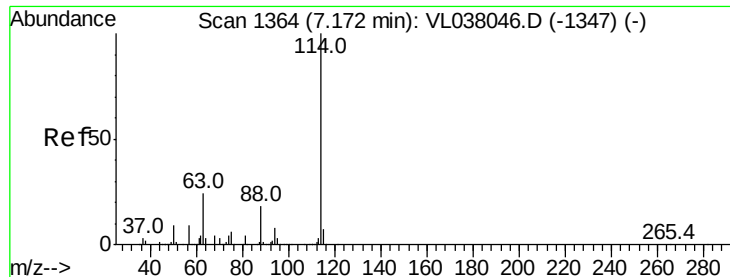
Ion Ratio Lower Upper

61 100

96 0.7 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 21:15

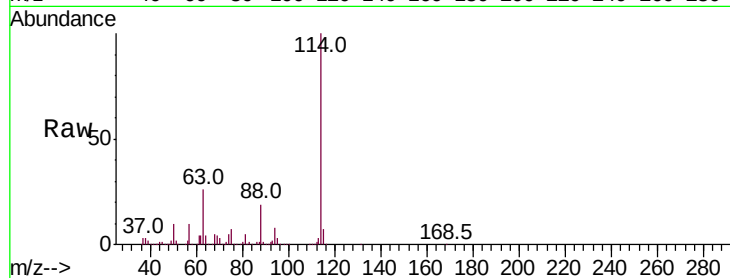
Tot Ion:114 Resp: 2583733

Ion Ratio Lower Upper

114 100

63 25.9 19.7 29.5

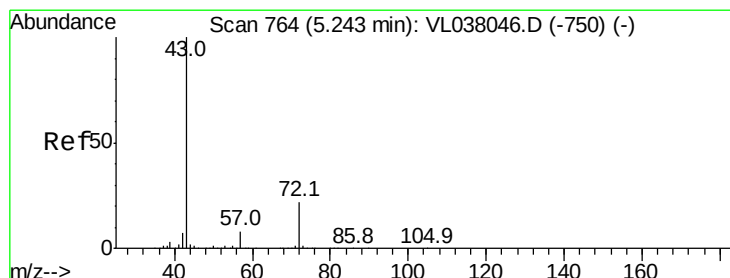
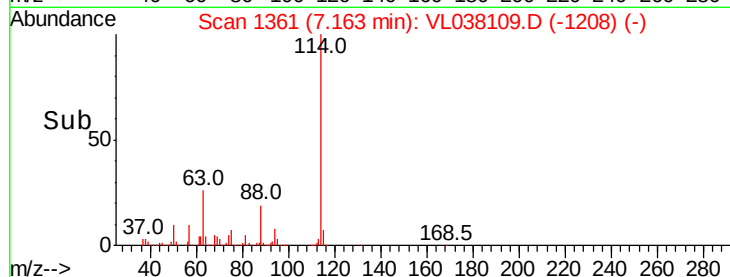
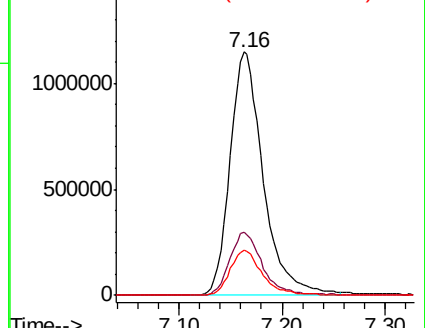
88 18.4 14.4 21.6



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: 20.385 ppbv

RT: 5.66 min Scan# 894

Delta R.T. 0.42 min

Lab File: VL038109.D

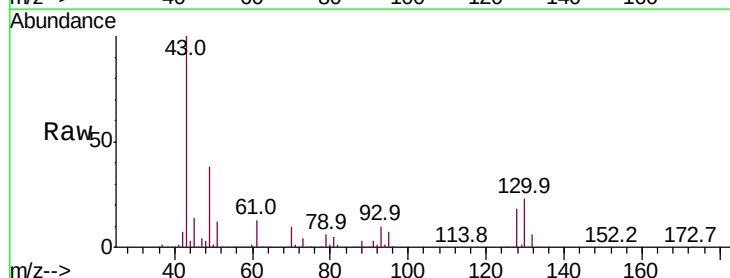
Acq: 23 Nov 2021 21:15

Tgt Ion: 43 Resp: 2123776

Ion Ratio Lower Upper

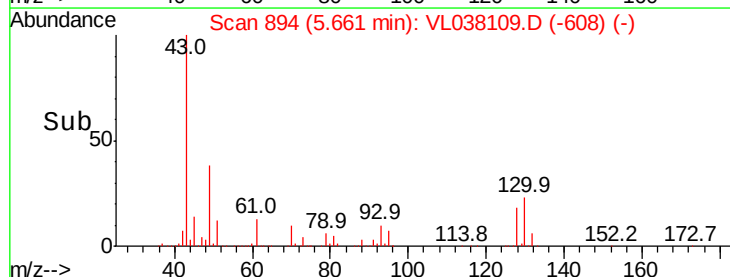
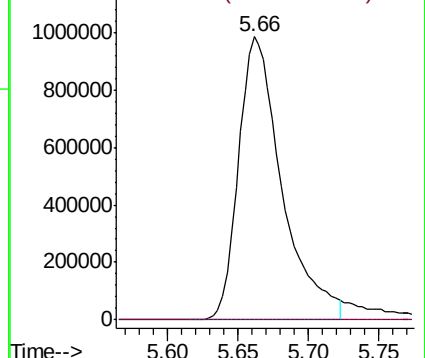
43 100

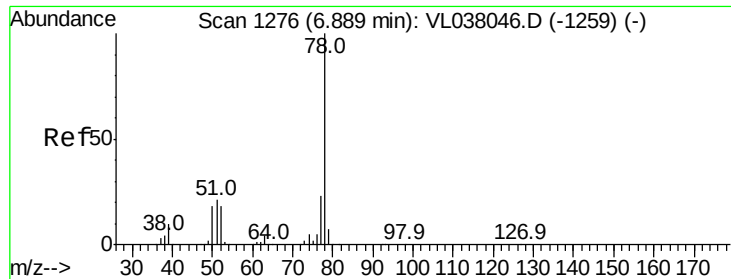
72 0.0 18.8 28.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#36

Benzene

Concen: 0.094 ppbv

RT: 6.87 Instrument:

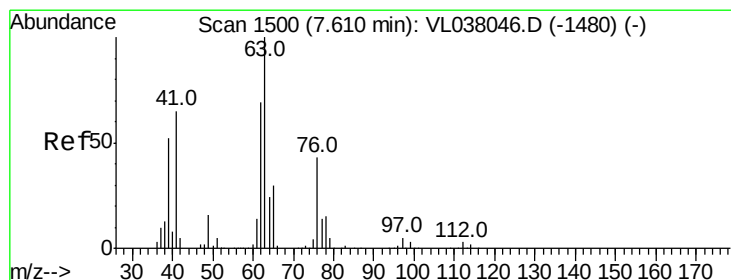
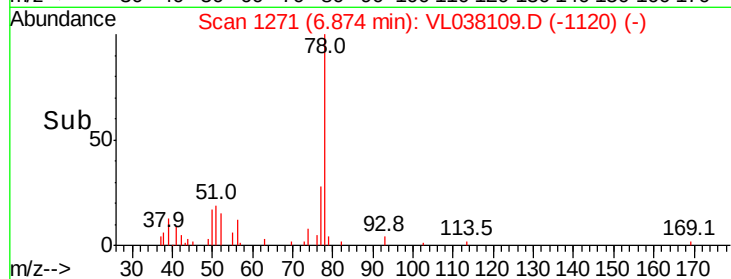
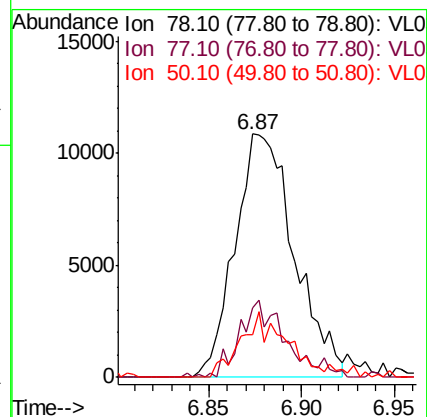
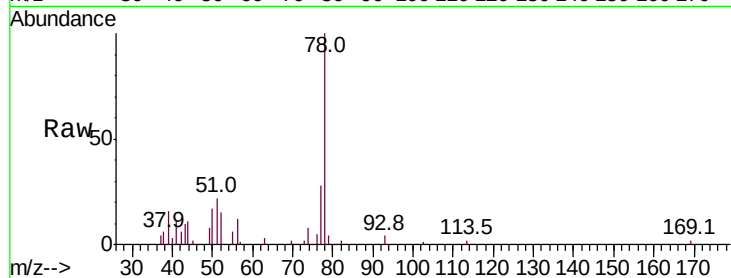
Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 23 Nov 2021 21:15

Tot Ion: 78 Resp: 24168

Ion	Ratio	Lower	Upper
78	100		
77	28.3	18.2	27.4#
50	17.4	14.7	22.1



#39

1,2-Dichloropropane

Concen: 6.520 ppbv

RT: 7.16 min Scan# 1361

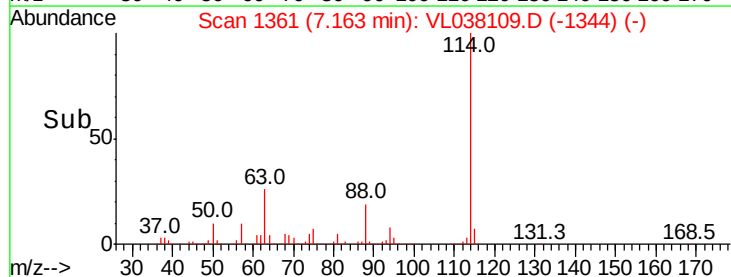
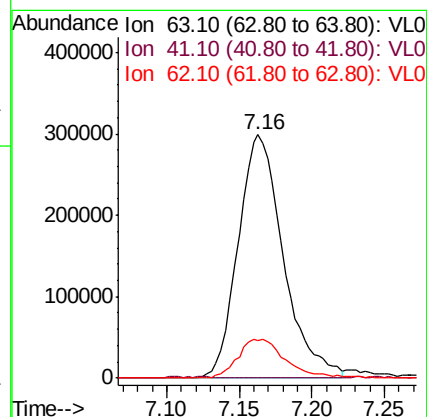
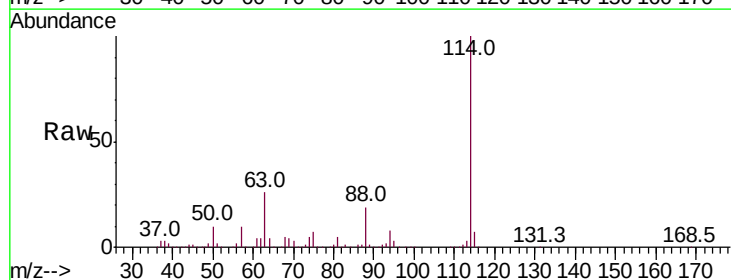
Delta R.T. -0.45 min

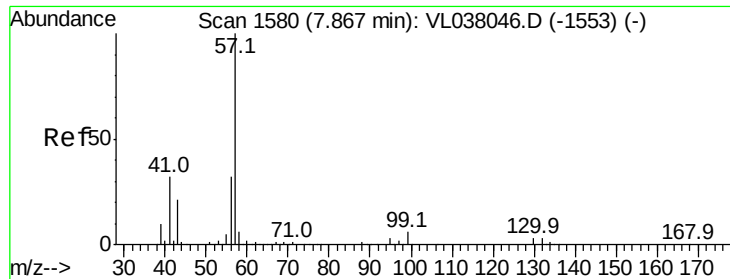
Lab File: VL038109.D

Acq: 23 Nov 2021 21:15

Tgt Ion: 63 Resp: 644625

Ion	Ratio	Lower	Upper
63	100		
41	0.0	52.3	78.5#
62	15.4	55.1	82.7#





#44

2,2,4-Trimethylpentane

Concen: 0.050 ppbv

RT: 7.85 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 23 Nov 2021 21:15

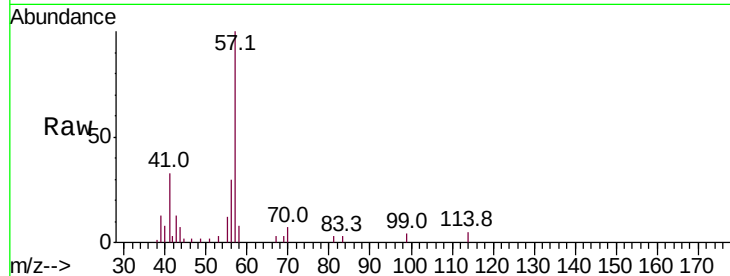
Tot Ion: 57 Resp: 21663

Ion Ratio Lower Upper

57 100

41 50.1 25.8 38.6#

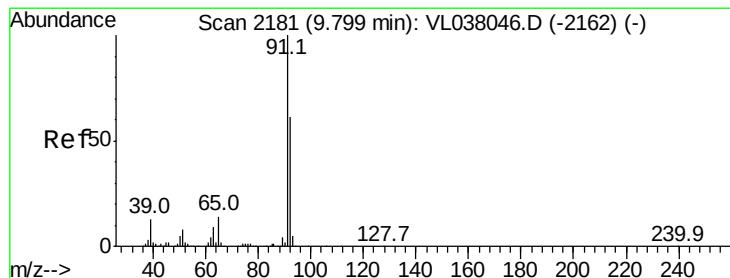
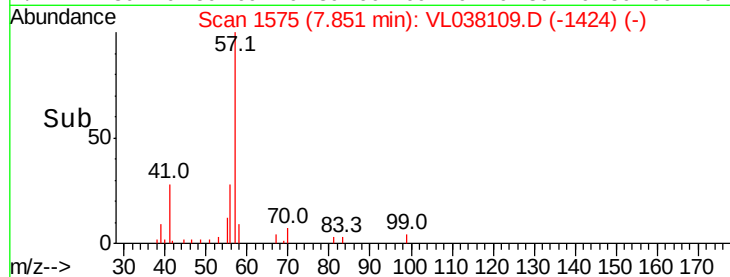
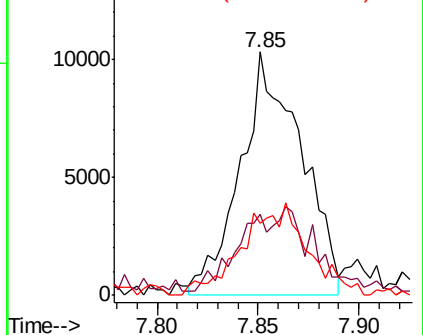
56 41.9 25.6 38.4#



Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#53

Toluene

Concen: 0.156 ppbv

RT: 9.79 min Scan# 2177

Delta R.T. -0.01 min

Lab File: VL038109.D

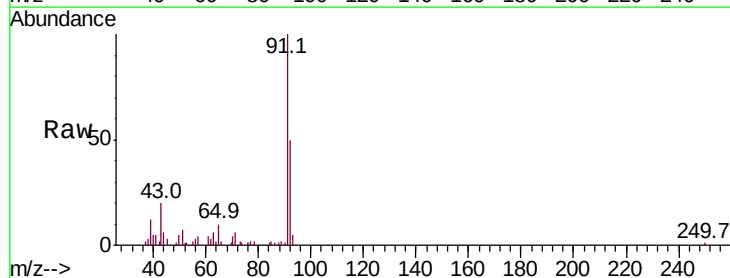
Acq: 23 Nov 2021 21:15

Tgt Ion: 91 Resp: 46221

Ion Ratio Lower Upper

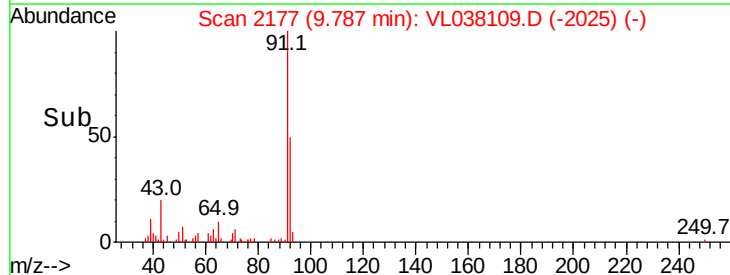
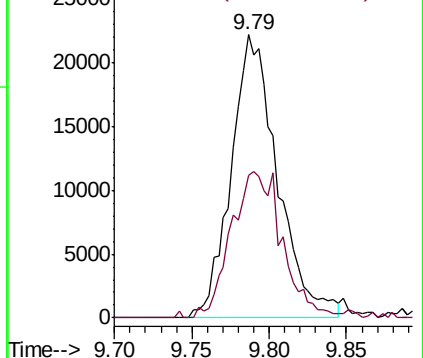
91 100

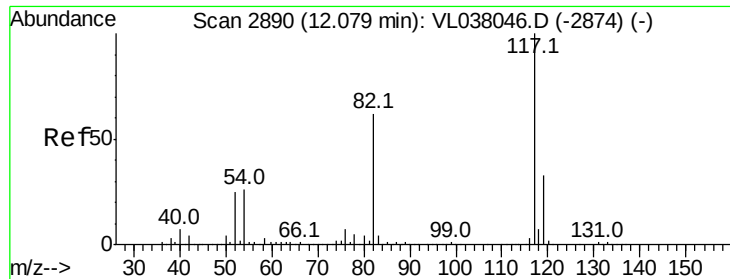
92 58.0 49.7 74.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 Nov 2021 21:15

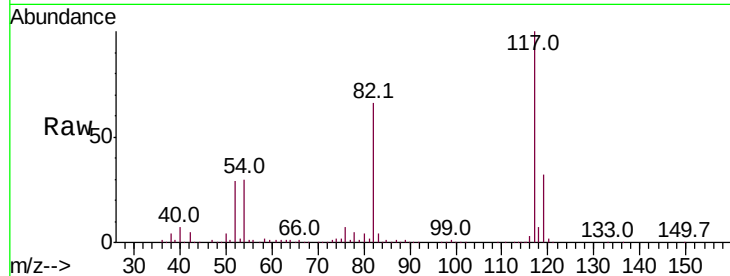
Tot Ion:117 Resp: 2236524

Ion Ratio Lower Upper

117 100

82 70.8 52.8 79.2

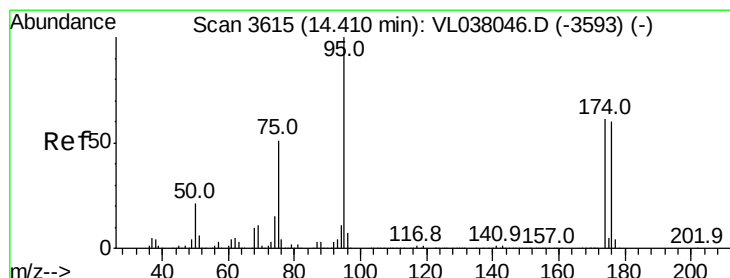
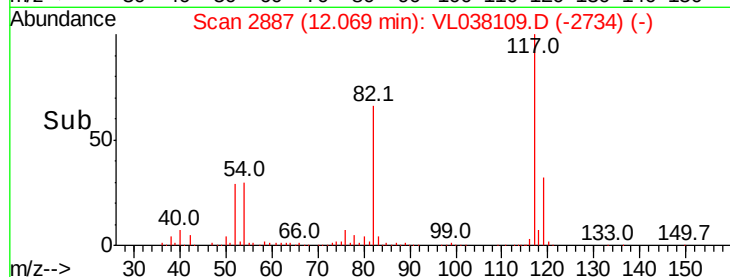
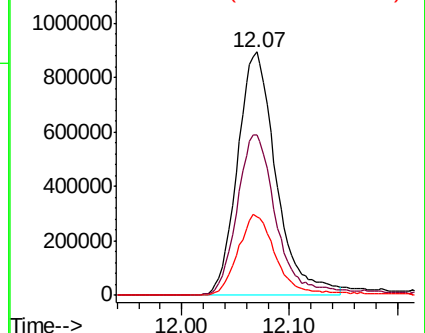
119 34.1 26.8 40.2



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: 10.715 ppbv

RT: 14.40 min Scan# 3611

Delta R.T. -0.01 min

Lab File: VL038109.D

Acq: 23 Nov 2021 21:15

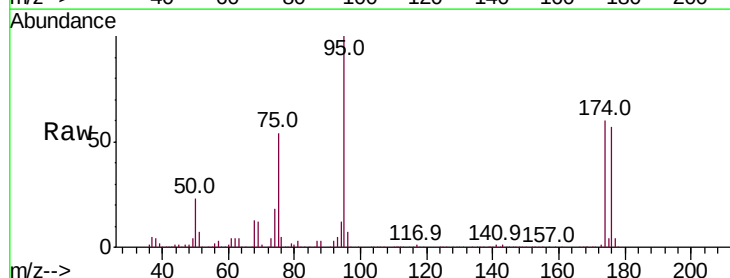
Tgt Ion: 95 Resp: 1728648

Ion Ratio Lower Upper

95 100

174 63.9 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

