

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032621\
 Data File : VL036509.D
 Acq On : 26 Mar 2021 11:37
 Operator : SY/AP
 Sample : M1748-38DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 27 03:27:53 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 09:42:40 2021
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	1498547	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.20	114	3579874	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.12	117	3168865	10.00	ppbv	0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.45	95	2510226	9.94	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.40%

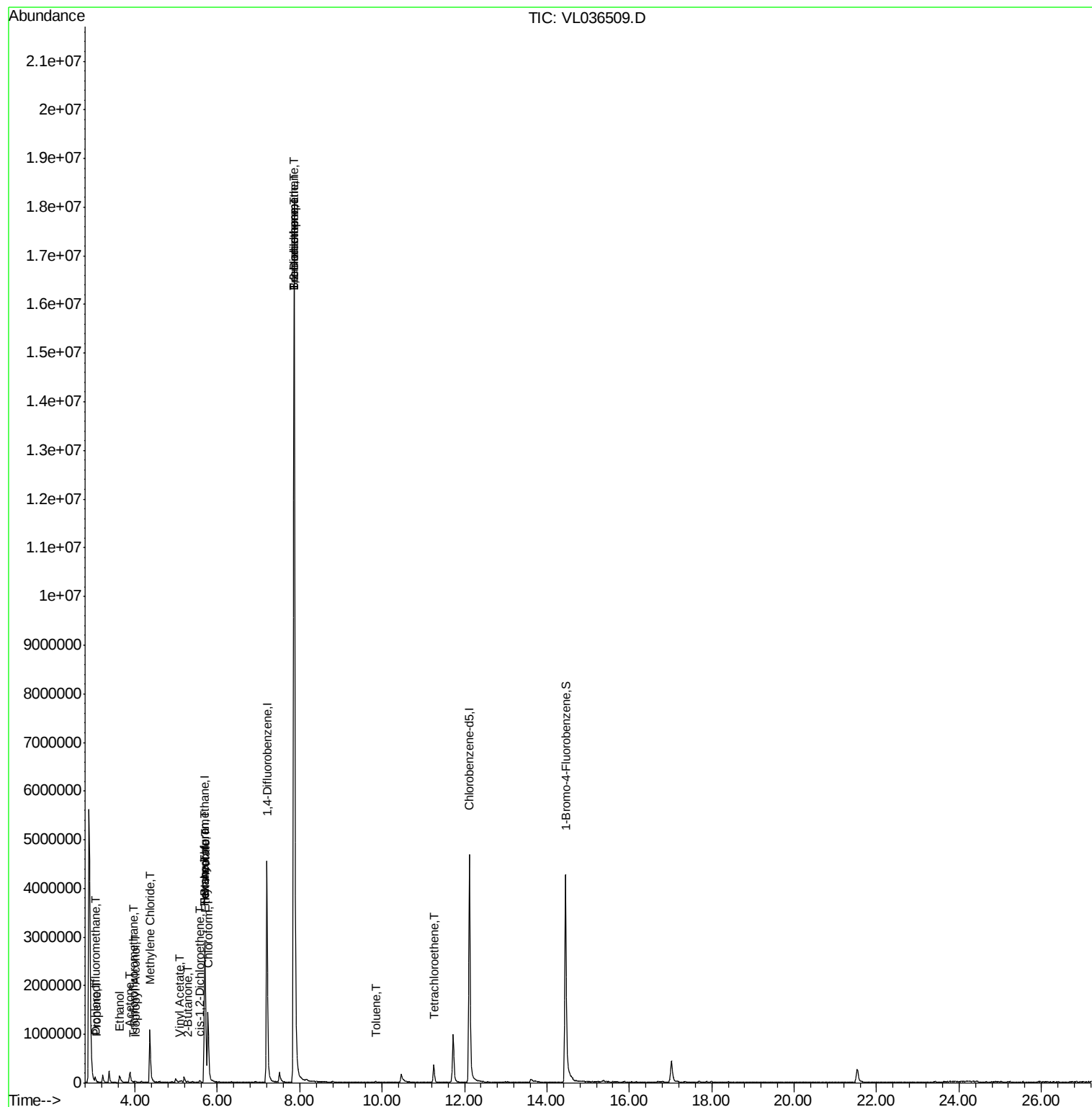
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	10949	0.045	ppbv #	74
9) Propene	3.07	41	2048	0.023	ppbv	96
11) Trichlorofluoromethane	3.97	101	10508	0.042	ppbv	91
13) Ethanol	3.63	45	177647	16.713	ppbv	96
15) Acetone	3.87	43	277873	1.884	ppbv	90
19) Isopropyl Alcohol	4.00	45	5845	0.072	ppbv #	89
20) Methylene Chloride	4.36	84	404193	5.853	ppbv	96
23) Vinyl Acetate	5.10	43	10914	0.043	ppbv #	89
25) Ethyl Acetate	5.71	43	318937	0.910	ppbv #	78
26) Hexane	5.71	57	438951	2.698	ppbv #	47
29) Chloroform	5.77	83	1068817	4.107	ppbv	99
31) cis-1,2-Dichloroethene	5.58	61	3401	0.022	ppbv #	74
34) 2-Butanone	5.28	43	7420	0.042	ppbv #	1
38) Trichloroethene	7.87	130	6664937	51.872	ppbv	94
39) 1,2-Dichloropropane	7.86	63	10315	0.077	ppbv #	1
41) Tetrahydrofuran	5.71	42	184726	2.293	ppbv #	52
42) Bromodichloromethane	7.86	83	63529	0.240	ppbv #	92
52) Tetrachloroethene	11.25	164	83965	0.691	ppbv	93
53) Toluene	9.84	91	8294	0.024	ppbv #	20

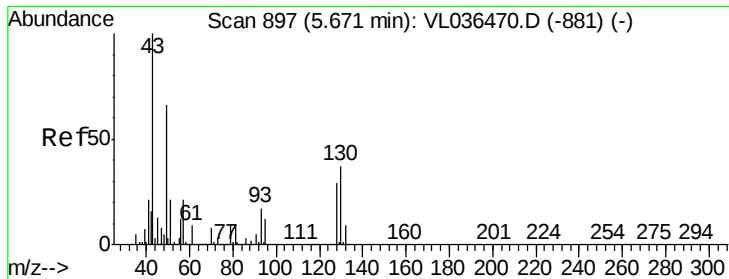
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 09:42:40 2021
QLast Update : Thu Mar 25 09:42:40 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 903

Delta R.T. 0.02 min

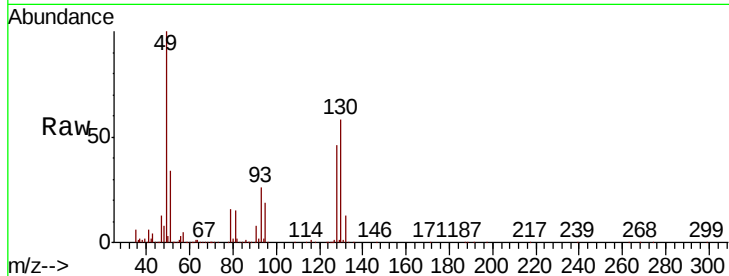
Lab File: VL036509.D

Acq: 26 Mar 2021 11:37

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 49 Resp: 1498547

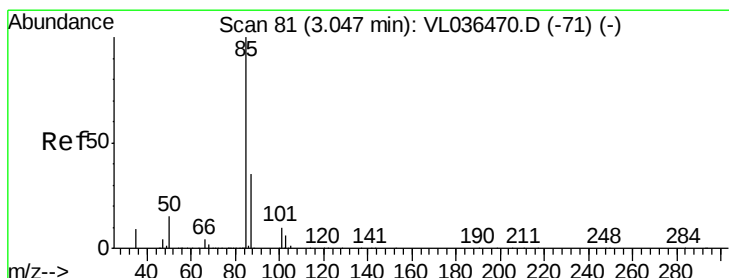
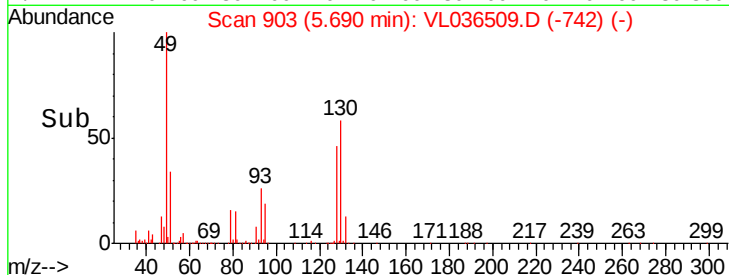
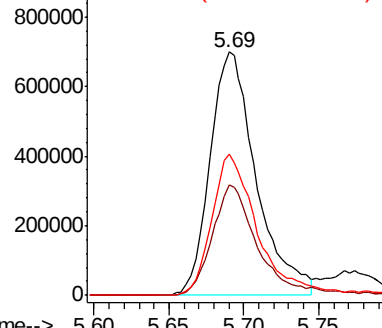
Ion	Ratio	Lower	Upper
49	100		
128	46.4	23.5	70.6
130	59.5	29.1	87.4



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: 3.07 min Scan# 87

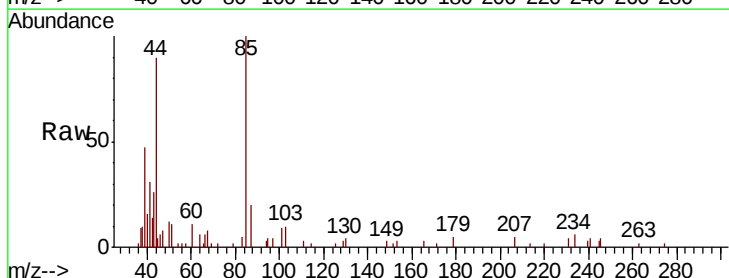
Delta R.T. 0.02 min

Lab File: VL036509.D

Acq: 26 Mar 2021 11:37

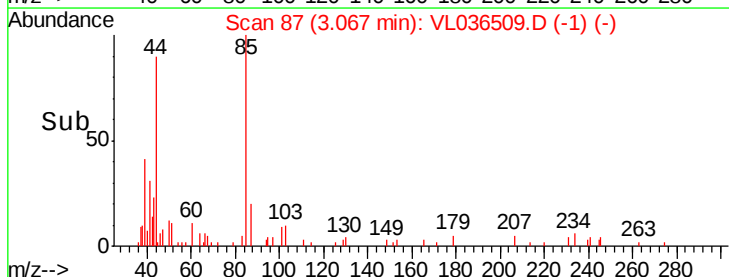
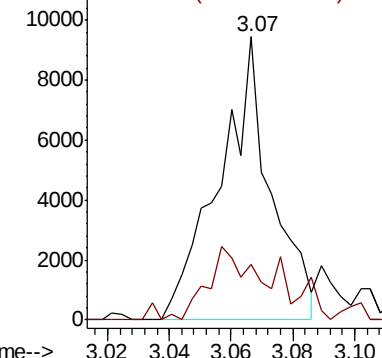
Tgt Ion: 85 Resp: 10949

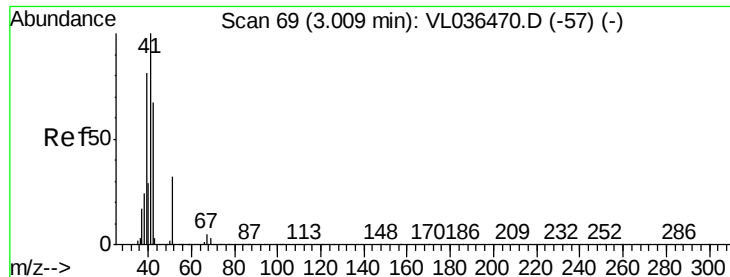
Ion	Ratio	Lower	Upper
85	100		
87	19.7	27.8	41.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#9

Propene

Concen: 0.023 ppbv

RT: 3.07 min Scan# 88

Delta R.T. 0.06 min

Lab File: VL036509.D

Acq: 26 Mar 2021 11:37

Instrument :

MSVOA_L

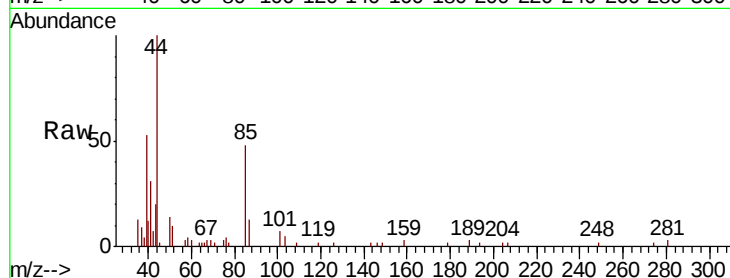
ClientSampled :

Tot Ion: 41 Resp: 2048

Ion Ratio Lower Upper

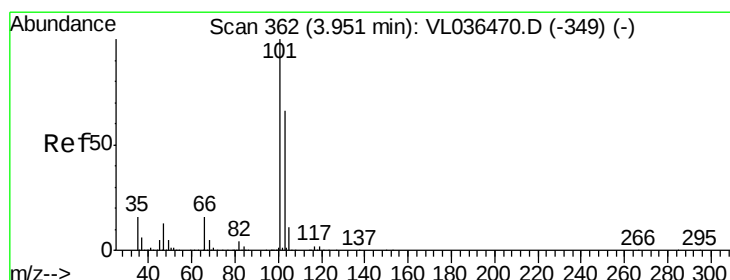
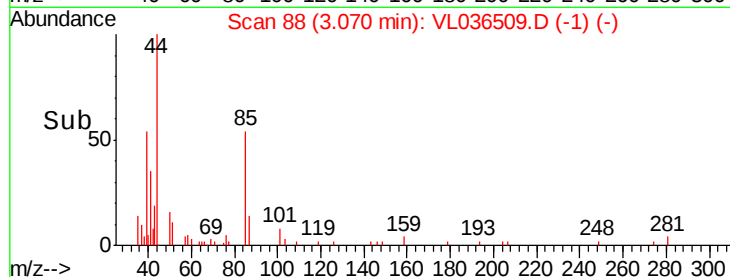
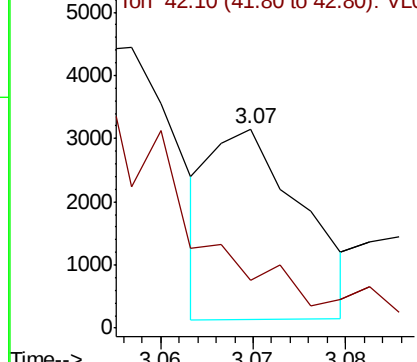
41 100

42 68.1 57.0 85.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#11

Trichlorofluoromethane

Concen: 0.042 ppbv

RT: 3.97 min Scan# 367

Delta R.T. 0.02 min

Lab File: VL036509.D

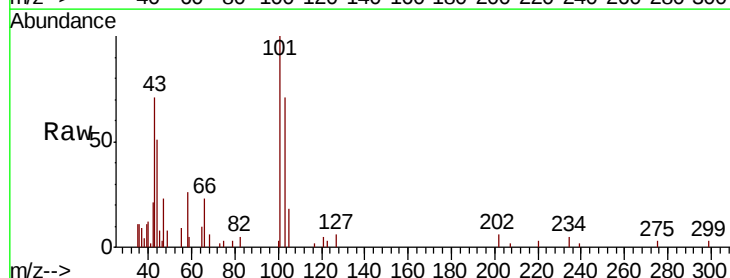
Acq: 26 Mar 2021 11:37

Tgt Ion: 101 Resp: 10508

Ion Ratio Lower Upper

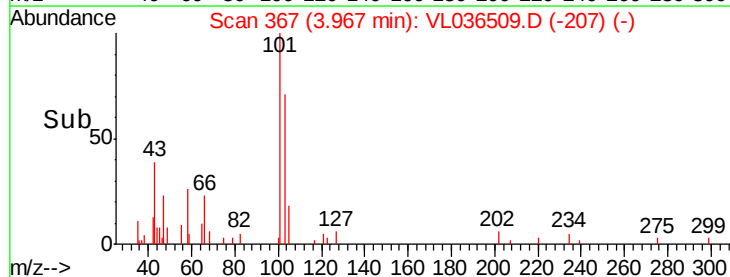
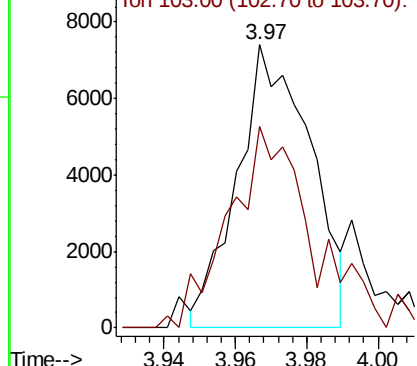
101 100

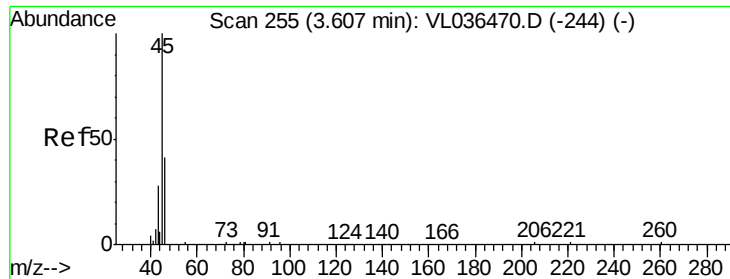
103 58.5 52.5 78.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

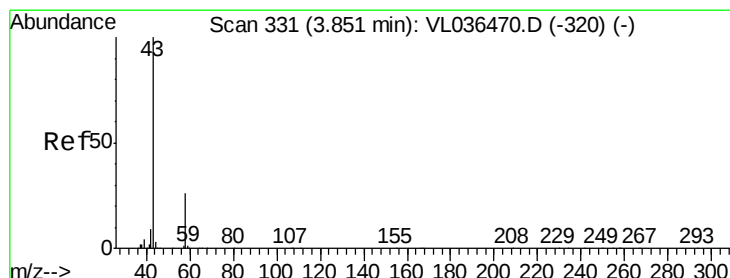
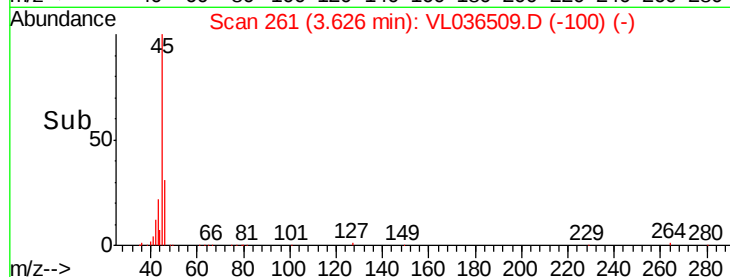
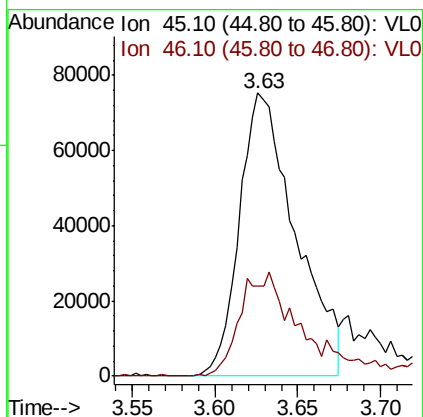
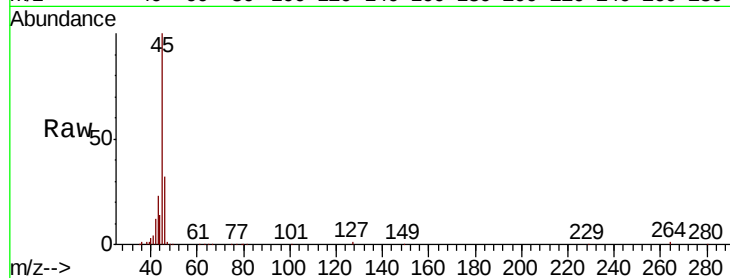




#13
Ethanol
Concen: 16.713 ppbv
RT: 3.63 min Scan# 261
Delta R.T. 0.02 min
Lab File: VL036509.D
Acq: 26 Mar 2021 11:37

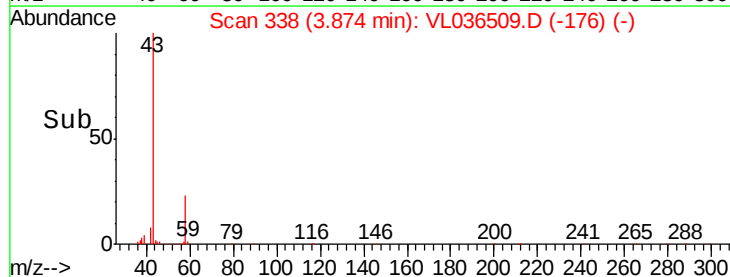
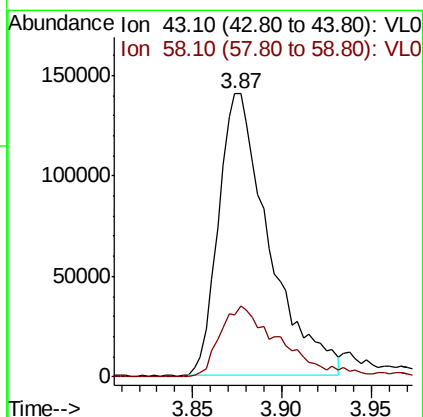
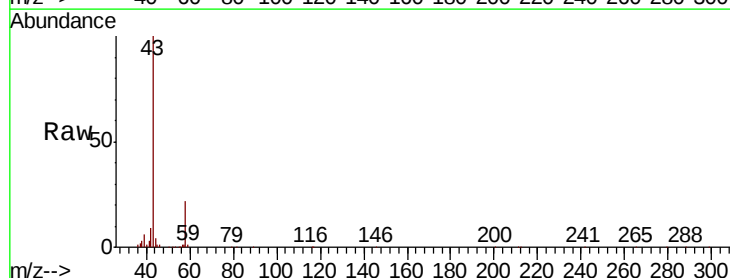
Instrument :
MSVOA_L
ClientSampleId :

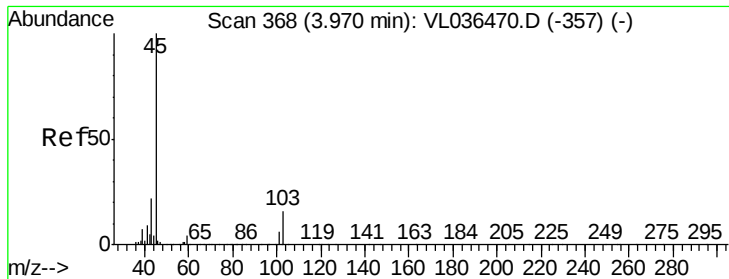
Tot Ion: 45 Resp: 177647
Ion Ratio Lower Upper
45 100
46 44.1 16.6 66.2



#15
Acetone
Concen: 1.884 ppbv
RT: 3.87 min Scan# 338
Delta R.T. 0.02 min
Lab File: VL036509.D
Acq: 26 Mar 2021 11:37

Tgt Ion: 43 Resp: 277873
Ion Ratio Lower Upper
43 100
58 31.5 21.2 31.8





#19

Isopropyl Alcohol

Concen: 0.072 ppbv

RT: 4.00 min Scan# 378

Delta R.T. 0.03 min

Lab File: VL036509.D

Acq: 26 Mar 2021 11:37

Instrument :

MSVOA_L

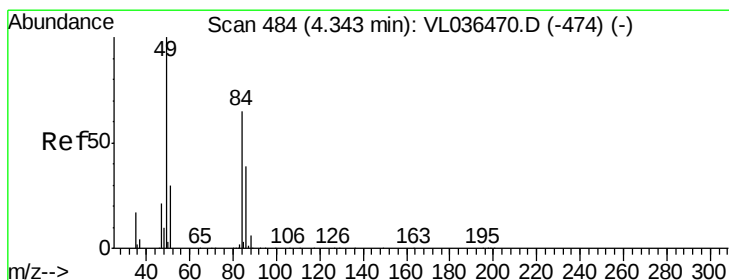
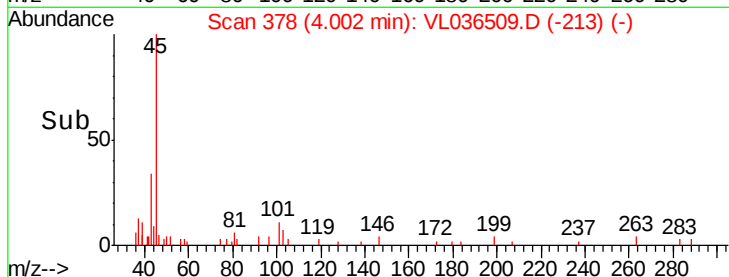
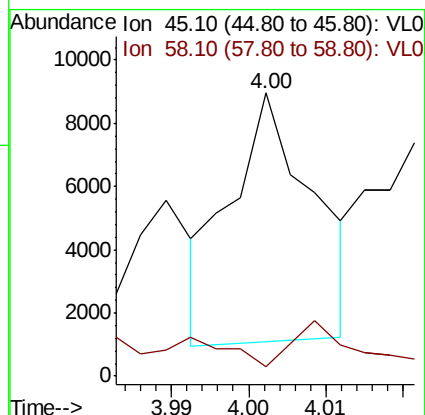
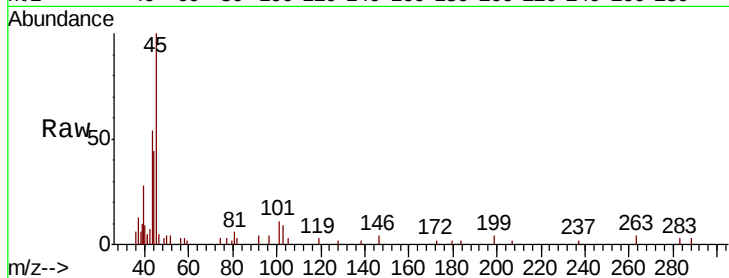
ClientSampleId :

Tot Ion: 45 Resp: 5845

Ion Ratio Lower Upper

45 100

58 0.0 2.9 4.3#



#20

Methylene Chloride

Concen: 5.853 ppbv

RT: 4.36 min Scan# 490

Delta R.T. 0.02 min

Lab File: VL036509.D

Acq: 26 Mar 2021 11:37

Tgt Ion: 84 Resp: 404193

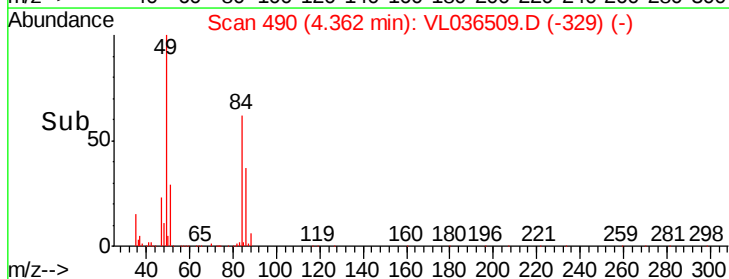
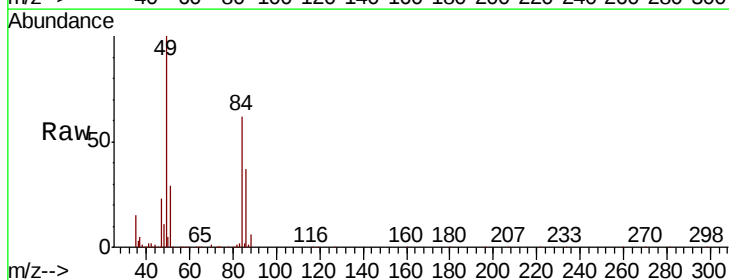
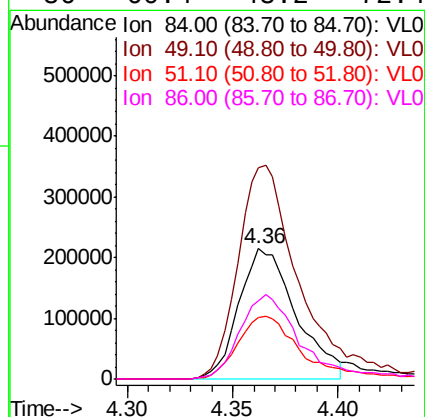
Ion Ratio Lower Upper

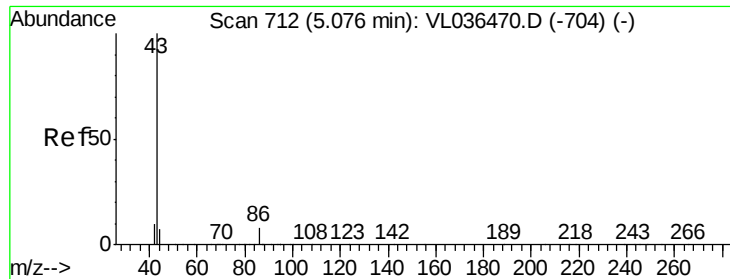
84 100

49 161.6 122.9 184.3

51 46.9 36.9 55.3

86 60.4 48.2 72.4





#23

Vinyl Acetate

Concen: 0.043 ppbv

RT: 5.10 min Scan# 718

Delta R.T. 0.02 min

Lab File: VL036509.D

Acq: 26 Mar 2021 11:37

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 43 Resp: 10914

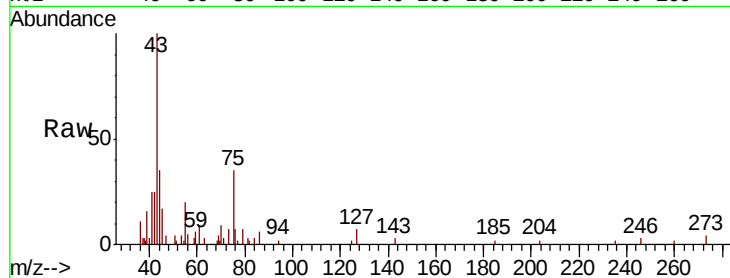
Ion Ratio Lower Upper

43 100

86 6.5 5.4 8.0

42 16.4 8.5 12.7#

44 1.1 4.6 7.0#

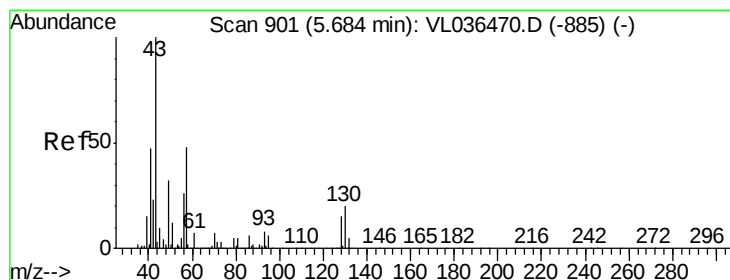
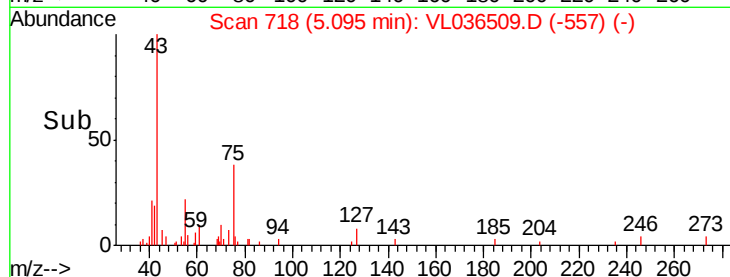
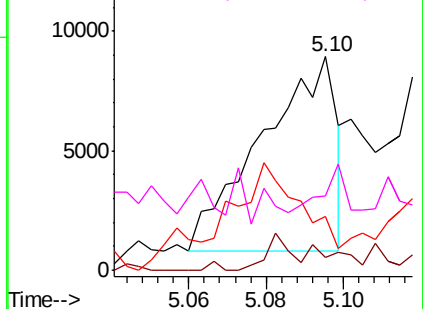


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.910 ppbv

RT: 5.71 min Scan# 910

Delta R.T. 0.03 min

Lab File: VL036509.D

Acq: 26 Mar 2021 11:37

Tgt Ion: 43 Resp: 318937

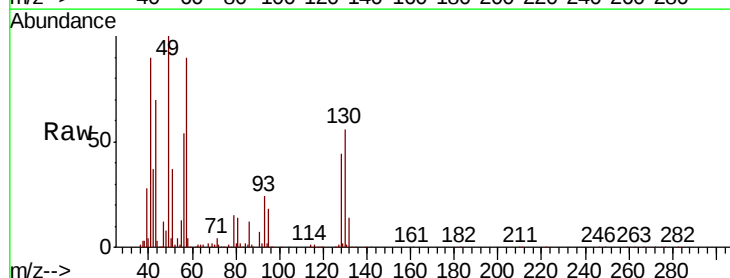
Ion Ratio Lower Upper

43 100

45 0.4 7.9 11.9#

61 0.9 7.4 11.2#

70 2.0 5.1 7.7#

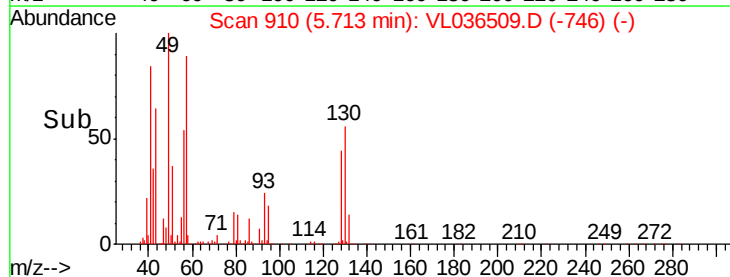
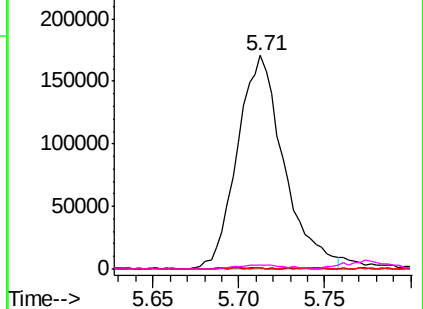


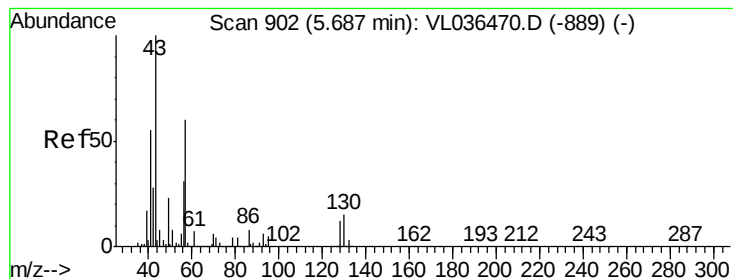
Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 2.698 ppbv

RT: 5.71 min Scan# 909

Delta R.T. 0.02 min

Lab File: VL036509.D

Acq: 26 Mar 2021 11:37

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 57 Resp: 438951

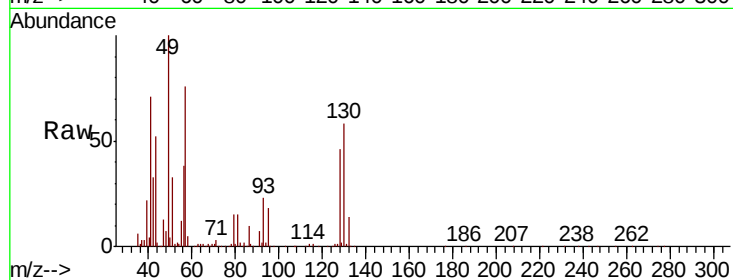
Ion Ratio Lower Upper

57 100

41 99.3 77.2 115.8

43 76.2 173.8 260.6#

56 55.1 43.8 65.6

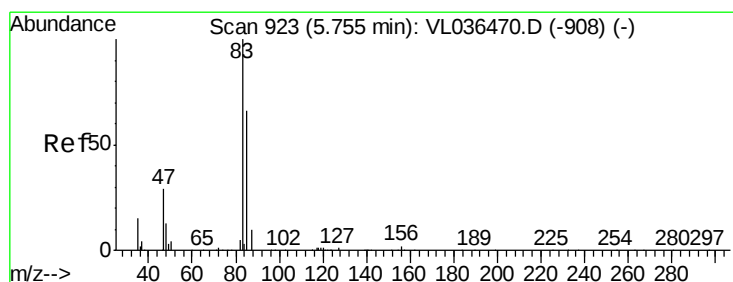
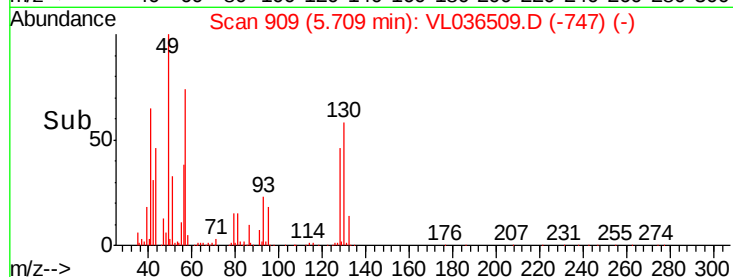
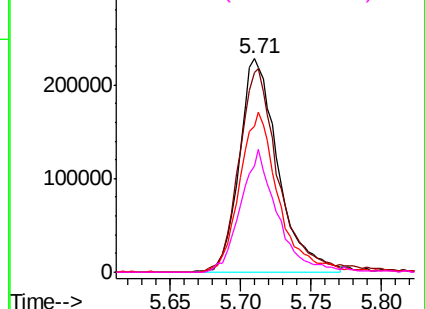


Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 4.107 ppbv

RT: 5.77 min Scan# 929

Delta R.T. 0.02 min

Lab File: VL036509.D

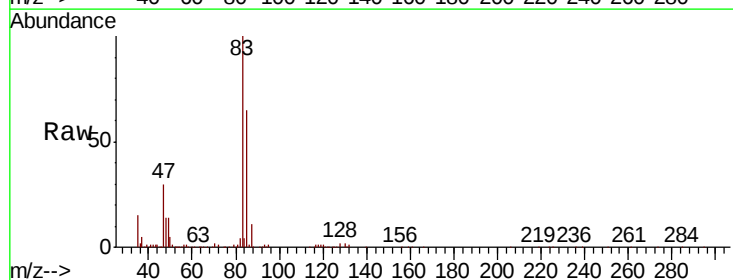
Acq: 26 Mar 2021 11:37

Tgt Ion: 83 Resp: 1068817

Ion Ratio Lower Upper

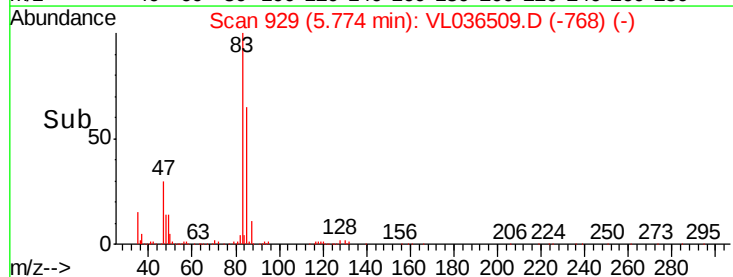
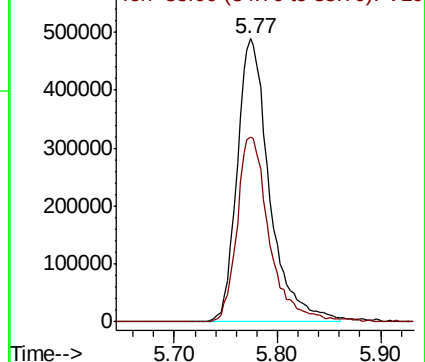
83 100

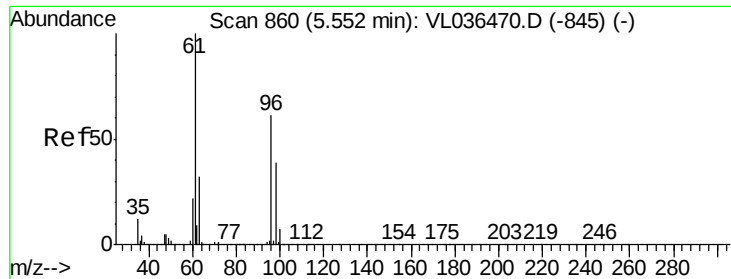
85 65.0 52.6 78.8



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



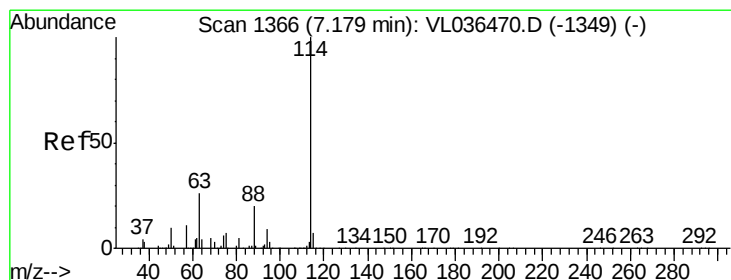
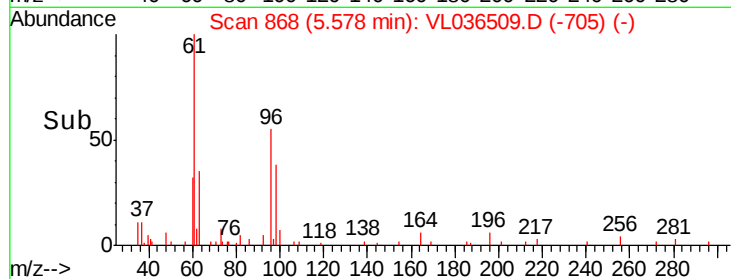
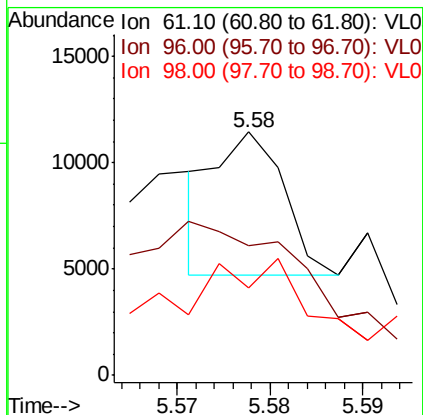
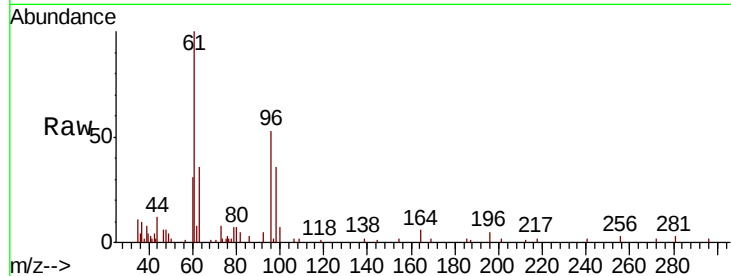


#31

cis-1,2-Dichloroethene
 Concen: 0.022 ppbv
 RT: 5.58 min Scan# 868
 Delta R.T. 0.03 min
 Lab File: VL036509.D
 Acq: 26 Mar 2021 11:37

Instrument :
 MSVOA_L
 ClientSampled :

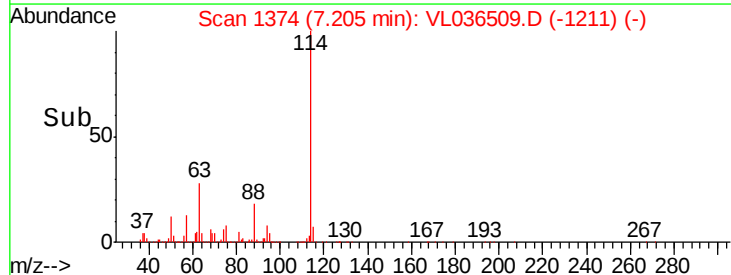
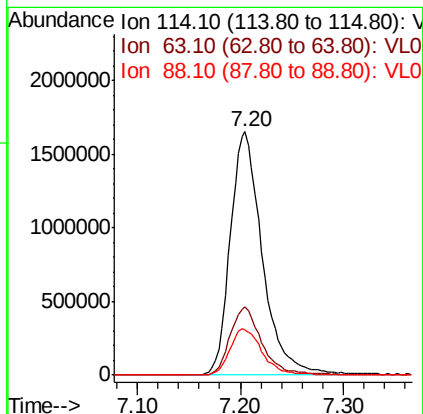
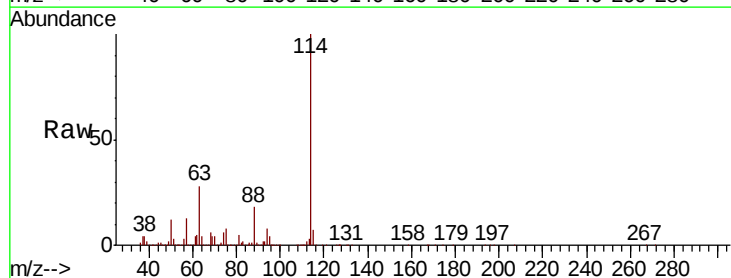
Tot Ion: 61 Resp: 3401
 Ion Ratio Lower Upper
 61 100
 96 44.5 48.7 73.1#
 98 19.0 31.4 47.0#

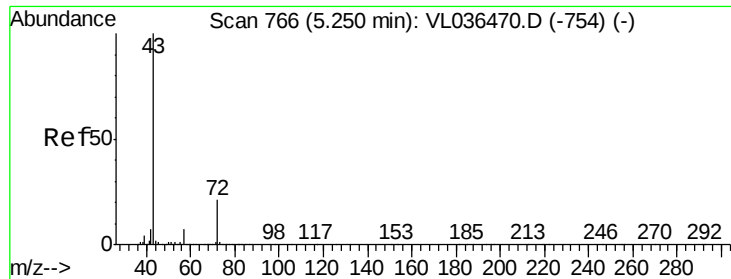


#33

1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.20 min Scan# 1374
 Delta R.T. 0.03 min
 Lab File: VL036509.D
 Acq: 26 Mar 2021 11:37

Tgt Ion: 114 Resp: 3579874
 Ion Ratio Lower Upper
 114 100
 63 28.1 22.4 33.6
 88 19.5 15.4 23.0

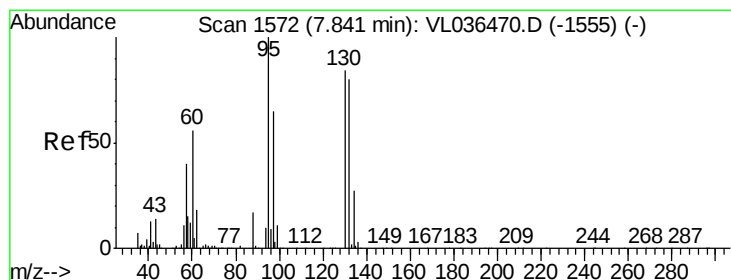
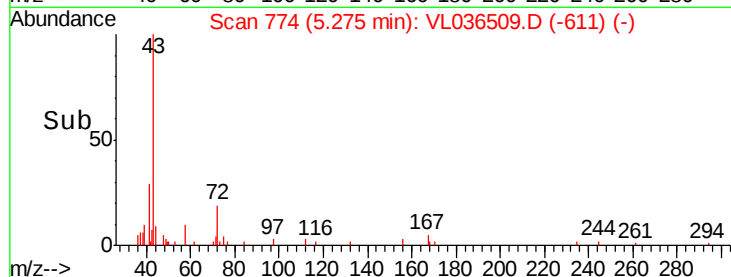
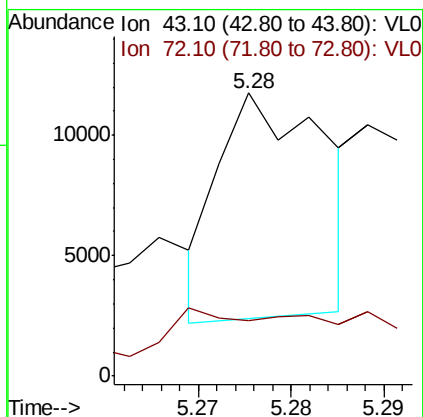
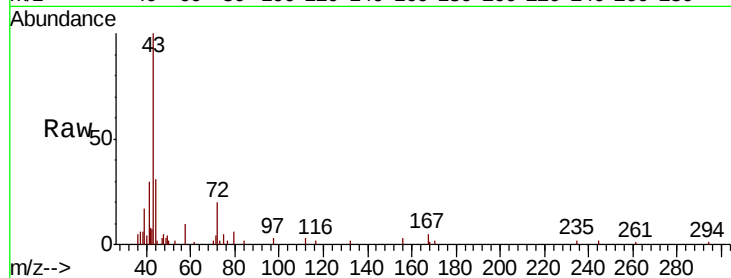




#34
2-Butanone
Concen: 0.042 ppbv
RT: 5.28 min Scan# 774
Delta R.T. 0.03 min
Lab File: VL036509.D
Acq: 26 Mar 2021 11:37

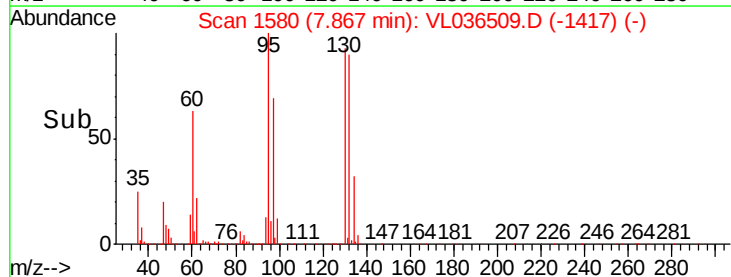
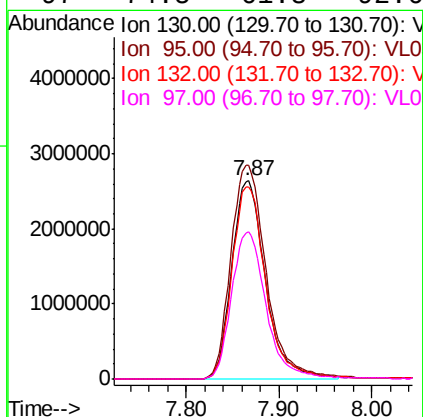
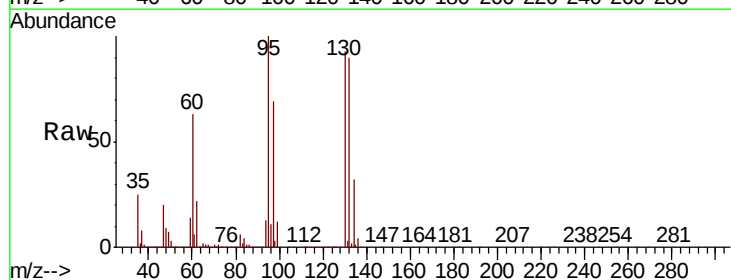
Instrument :
MSVOA_L
ClientSampleId :

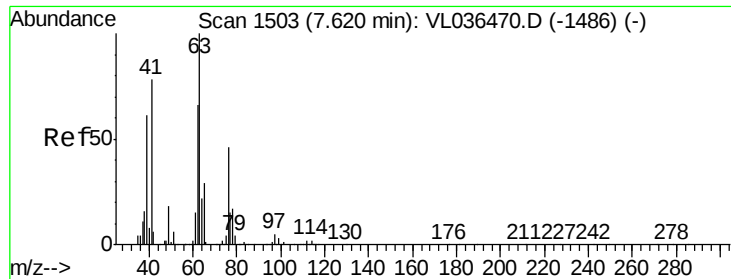
Tot Ion: 43 Resp: 7420
Ion Ratio Lower Upper
43 100
72 93.0 17.0 25.6#



#38
Trichloroethene
Concen: 51.872 ppbv
RT: 7.87 min Scan# 1580
Delta R.T. 0.03 min
Lab File: VL036509.D
Acq: 26 Mar 2021 11:37

Tgt Ion:130 Resp: 6664937
Ion Ratio Lower Upper
130 100
95 107.6 95.7 143.5
132 96.6 76.2 114.4
97 74.5 61.8 92.6

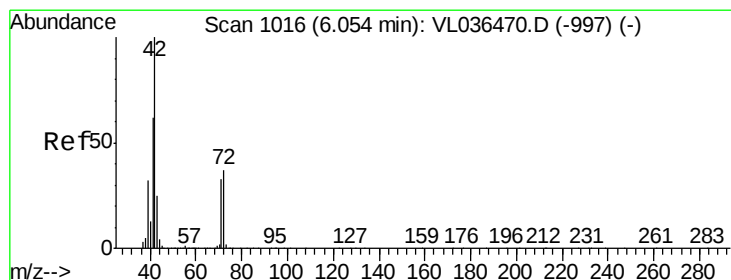
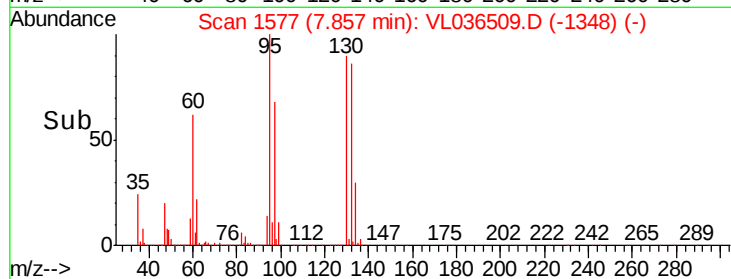
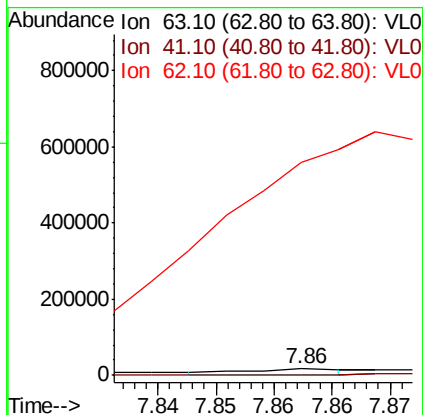
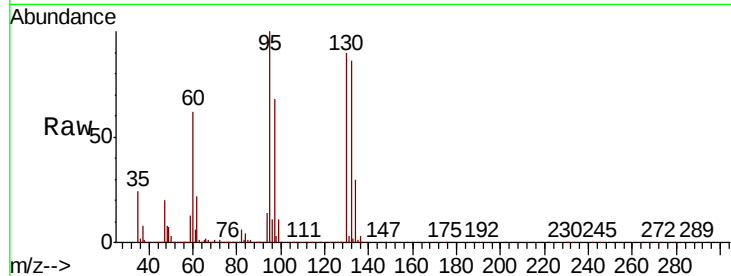




#39
 1,2-Dichloropropane
 Concen: 0.077 ppbv
 RT: 7.86 min Scan# 1577
 Delta R.T. 0.24 min
 Lab File: VL036509.D
 Acq: 26 Mar 2021 11:37

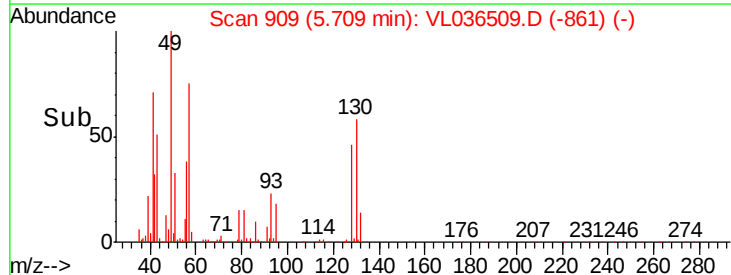
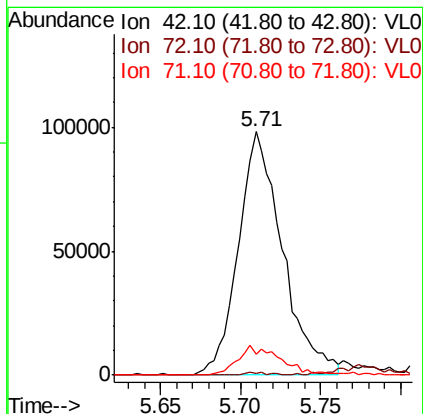
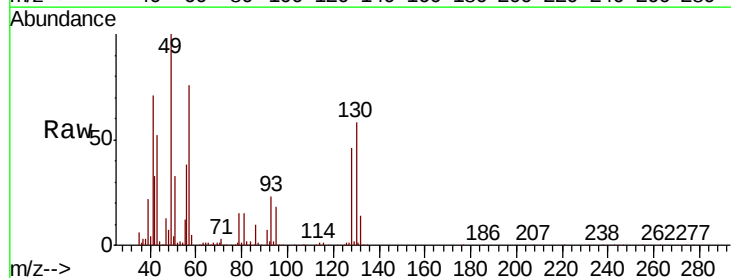
Instrument :
 MSVOA_L
 ClientSampleId :

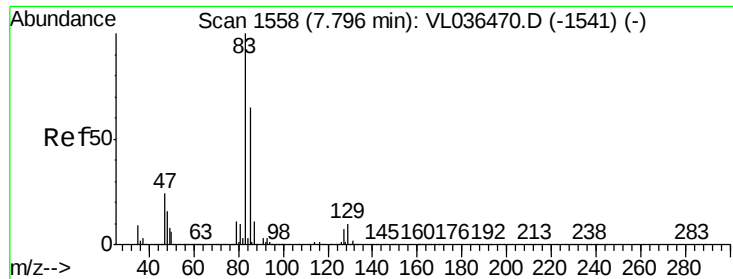
Tot Ion: 63 Resp: 10315
 Ion Ratio Lower Upper
 63 100
 41 5.0 62.4 93.6#
 62 2324.3 52.8 79.2#



#41
 Tetrahydrofuran
 Concen: 2.293 ppbv
 RT: 5.71 min Scan# 909
 Delta R.T. -0.34 min
 Lab File: VL036509.D
 Acq: 26 Mar 2021 11:37

Tgt Ion: 42 Resp: 184726
 Ion Ratio Lower Upper
 42 100
 72 0.6 27.6 41.4#
 71 12.3 27.0 40.4#





#42

Bromodichloromethane

Concen: 0.240 ppbv

RT: 7.86 min Scan# 1579

Delta R.T. 0.07 min

Lab File: VL036509.D

Acq: 26 Mar 2021 11:37

Instrument :

MSVOA_L

ClientSampled :

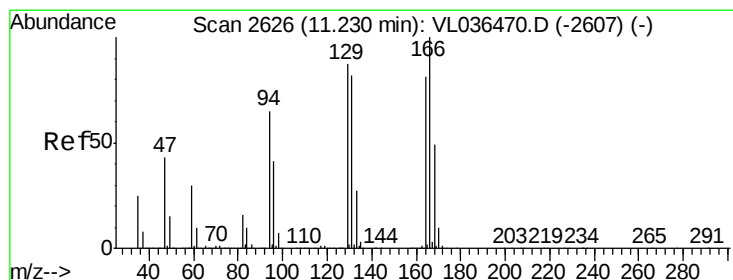
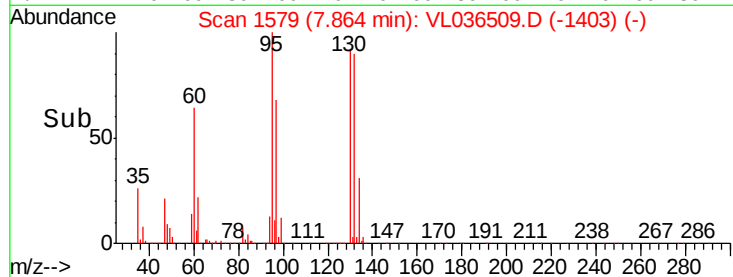
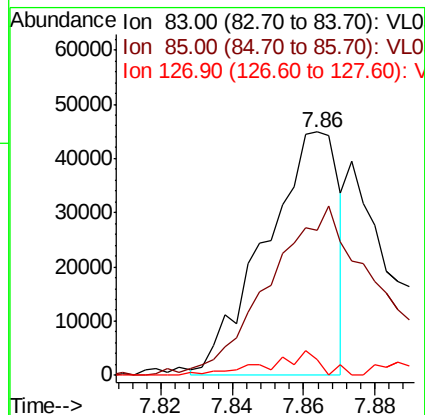
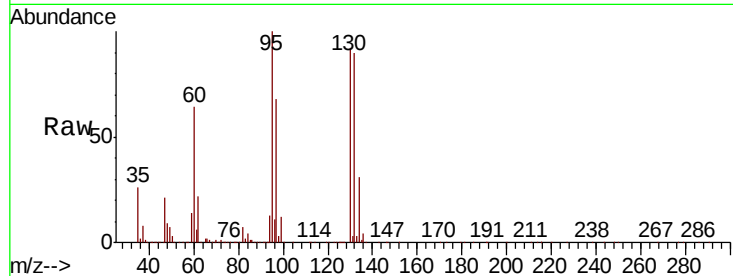
Tot Ion: 83 Resp: 63529

Ion Ratio Lower Upper

83 100

85 58.0 51.8 77.6

127 5.1 5.8 8.8#



#52

Tetrachloroethene

Concen: 0.691 ppbv

RT: 11.25 min Scan# 2633

Delta R.T. 0.02 min

Lab File: VL036509.D

Acq: 26 Mar 2021 11:37

Tgt Ion: 164 Resp: 83965

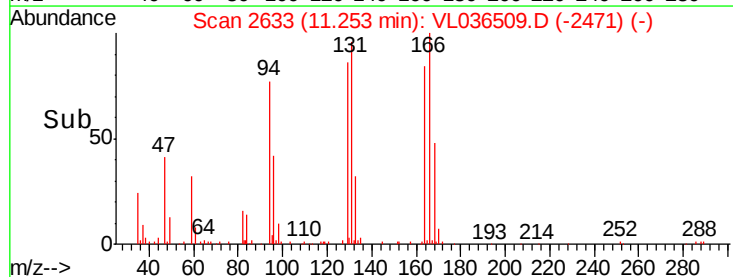
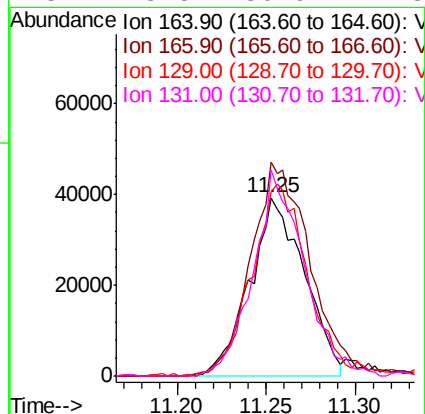
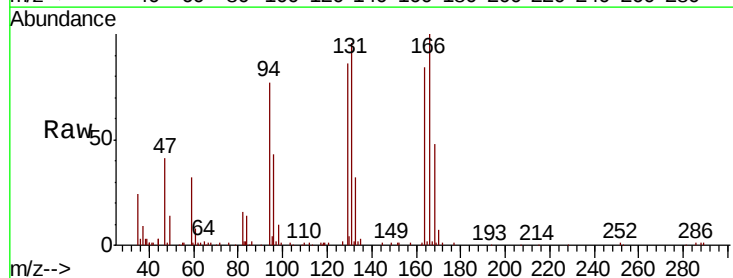
Ion Ratio Lower Upper

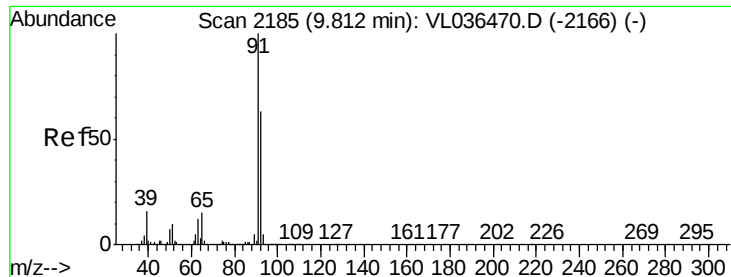
164 100

166 119.0 98.3 147.5

129 102.7 85.8 128.8

131 115.3 80.9 121.3





#53

Toluene

Concen: 0.024 ppbv

RT: 9.84 min Scan# 2194

Delta R.T. 0.03 min

Lab File: VL036509.D

Acq: 26 Mar 2021 11:37

Instrument :

MSVOA_L

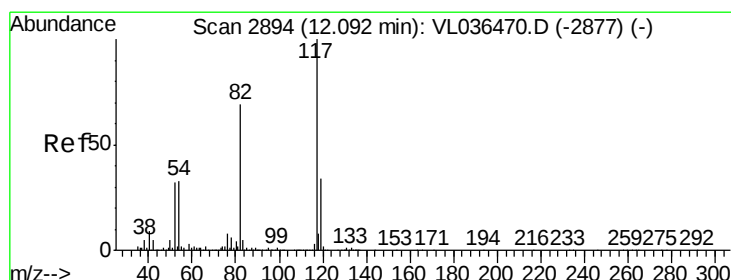
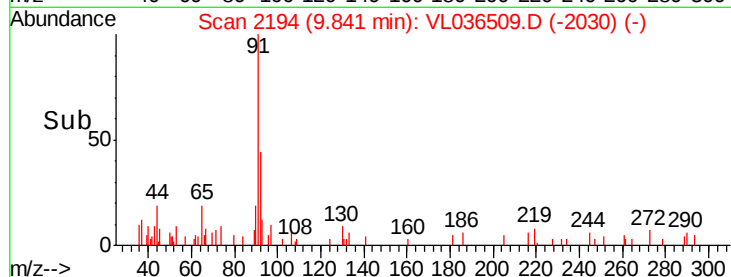
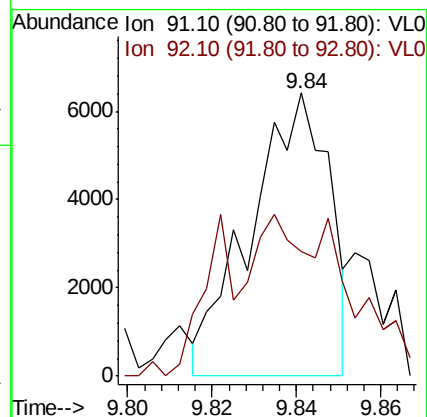
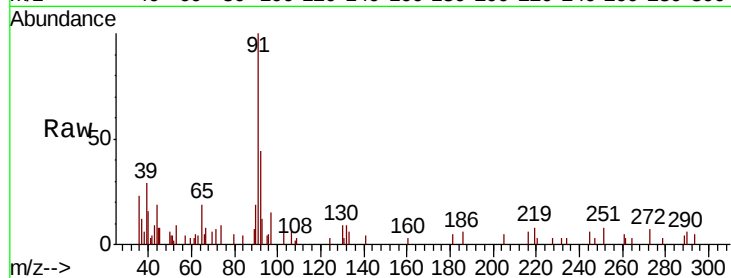
ClientSampleId :

Tot Ion: 91 Resp: 8294

Ion Ratio Lower Upper

91 100

92 0.0 48.8 73.2#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.12 min Scan# 2902

Delta R.T. 0.03 min

Lab File: VL036509.D

Acq: 26 Mar 2021 11:37

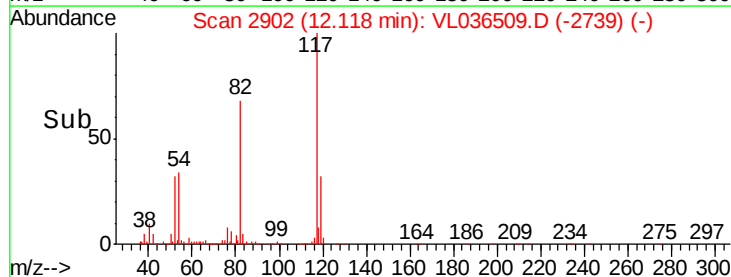
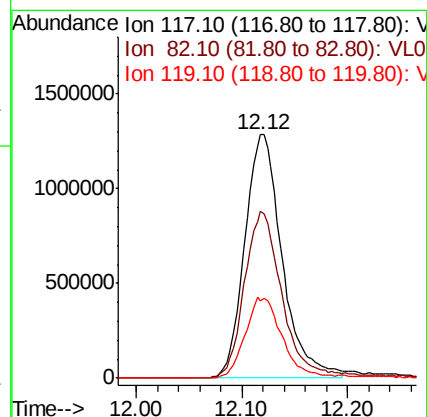
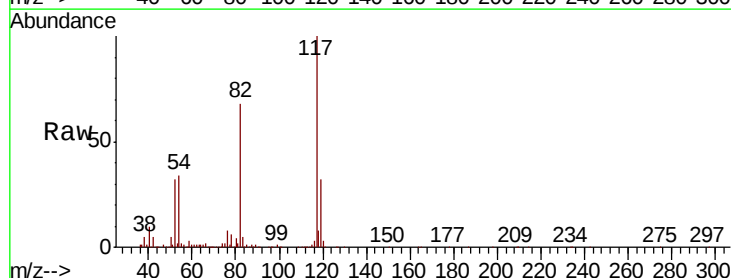
Tgt Ion: 117 Resp: 3168865

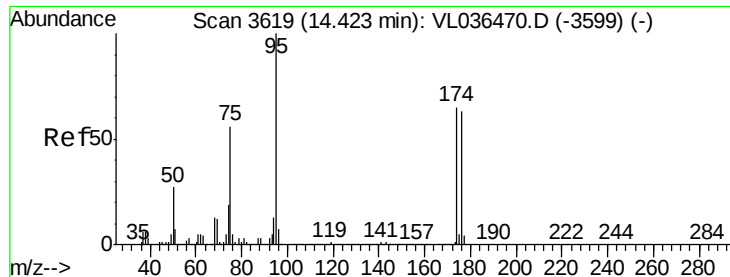
Ion Ratio Lower Upper

117 100

82 71.0 57.4 86.0

119 34.1 47.4 71.0#





#68

1-Bromo-4-Fluorobenzene

Concen: 9.939 ppbv

RT: 14.45 min Scan# 3627

Delta R.T. 0.03 min

Lab File: VL036509.D

Acq: 26 Mar 2021 11:37

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 95 Resp: 2510226

Ion Ratio Lower Upper

95 100

174 64.5 51.0 76.6

175 4.7 3.9 5.9

