

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040821\
 Data File : VL036749.D
 Acq On : 8 Apr 2021 14:02
 Operator : SY/AP
 Sample : M1981-01 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-1DL

Quant Time: Apr 09 08:38:36 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	5.66	49	1188861	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.17	114	2875888	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2528525	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	1993362	9.89	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.90%

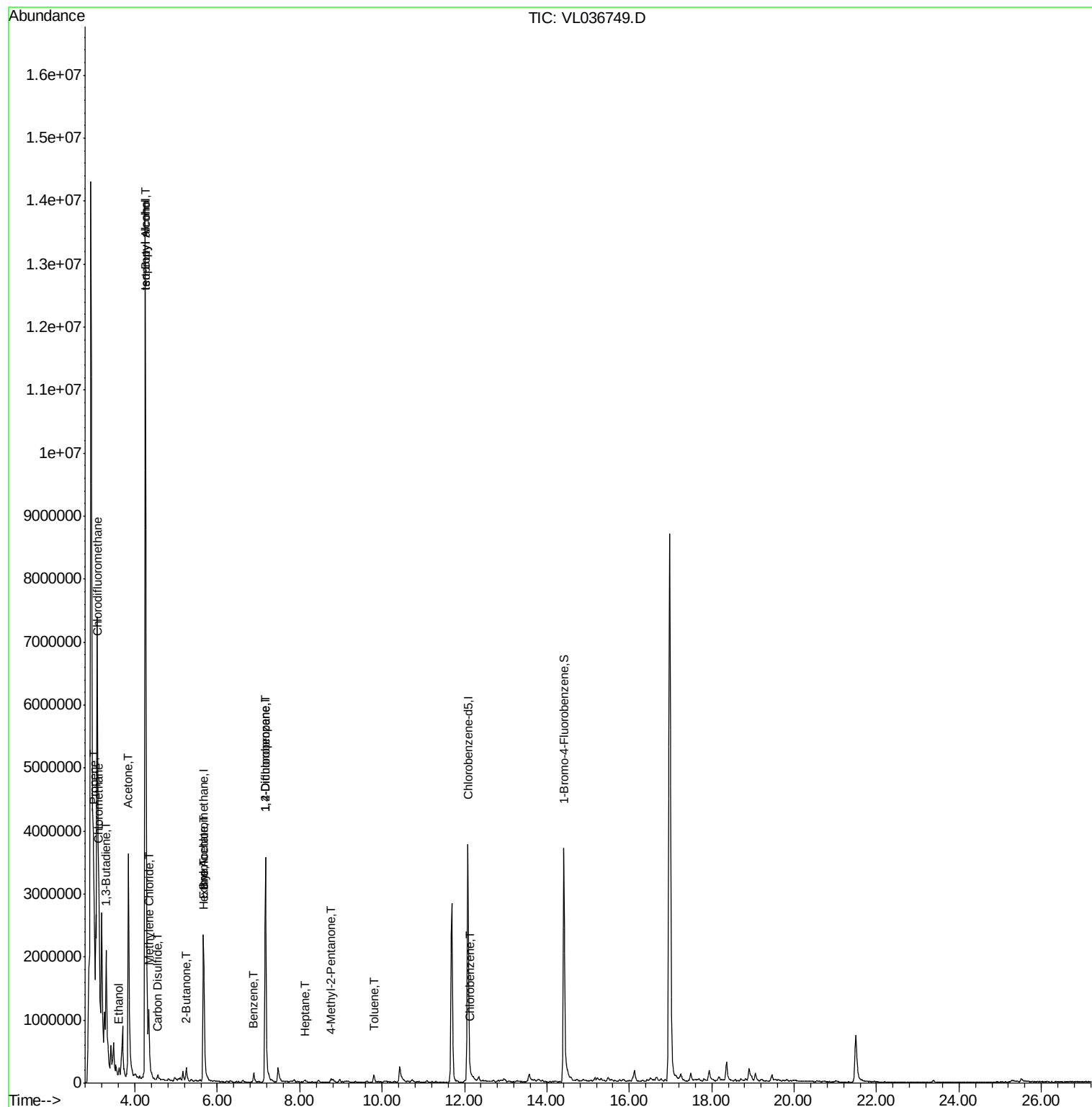
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	3.10	51	1055606	4.752	ppbv	99
4) Chloromethane	3.13	50	12314	0.157	ppbv	94
9) Propene	3.00	41	276316	3.902	ppbv	89
10) Heptane	8.12	43	6589	0.037	ppbv	90
13) Ethanol	3.60	45	9998	1.186	ppbv #	1
15) Acetone	3.84	43	4823801	41.225	ppbv	100
16) 1,3-Butadiene	3.30	39	558483	6.856	ppbv #	19
17) tert-Butyl alcohol	4.25	59	273301	2.683	ppbv #	1
19) Isopropyl Alcohol	4.25	45	4933378	76.644	ppbv #	89
20) Methylene Chloride	4.34	84	293632	5.360	ppbv	98
25) Ethyl Acetate	5.68	43	175472	0.631	ppbv #	84
26) Hexane	5.68	57	228104	1.767	ppbv #	47
27) Carbon Disulfide	4.54	76	45661	0.359	ppbv #	74
34) 2-Butanone	5.24	43	292582	2.084	ppbv	94
36) Benzene	6.89	78	64095	0.242	ppbv	95
39) 1,2-Dichloropropane	7.17	63	751244	6.982	ppbv #	24
50) 4-Methyl-2-Pentanone	8.76	43	44757	0.220	ppbv	94
53) Toluene	9.80	91	75003	0.266	ppbv	100
57) Chlorobenzene	12.14	112	7005	0.033	ppbv #	51

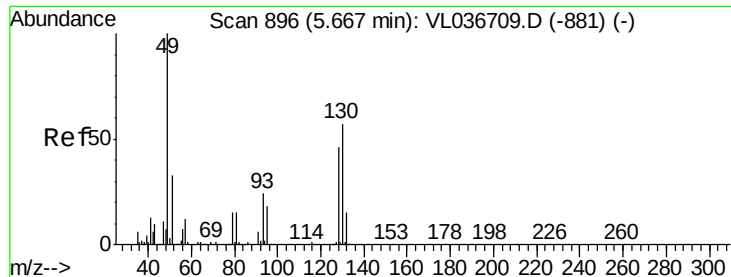
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Mar 25 09:42:40 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. -0.01 min

Lab File: VL036749.D

Acq: 8 Apr 2021 14:02

Instrument :

MSVOA_L

ClientSampleId :

SG-1DL

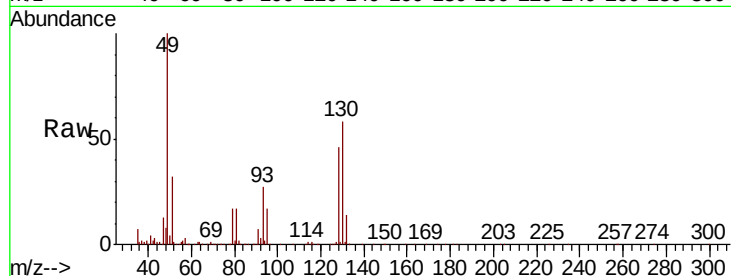
Tot Ion: 49 Resp: 1188861

Ion Ratio Lower Upper

49 100

128 47.0 23.5 70.6

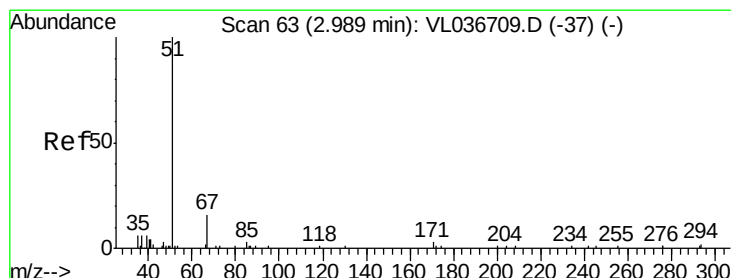
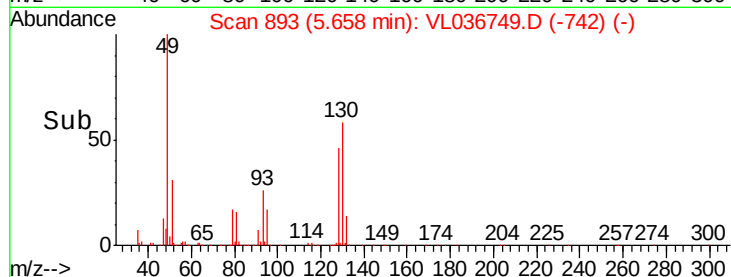
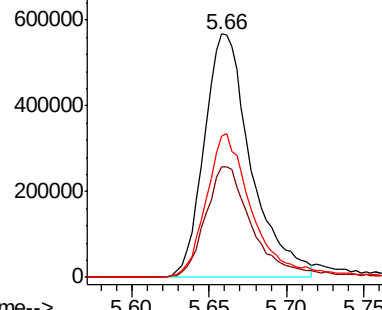
130 60.0 29.1 87.4



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



#3

Chlorodifluoromethane

Concen: 4.752 ppbv

RT: 3.10 min Scan# 97

Delta R.T. 0.11 min

Lab File: VL036749.D

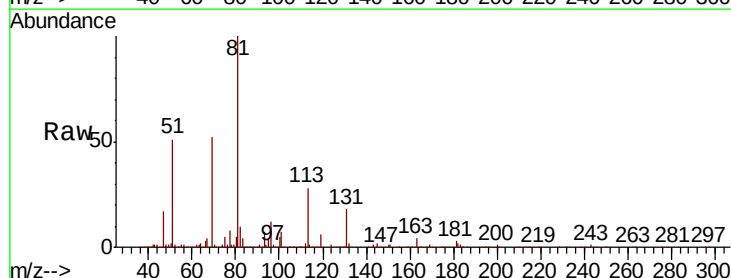
Acq: 8 Apr 2021 14:02

Tgt Ion: 51 Resp: 1055606

Ion Ratio Lower Upper

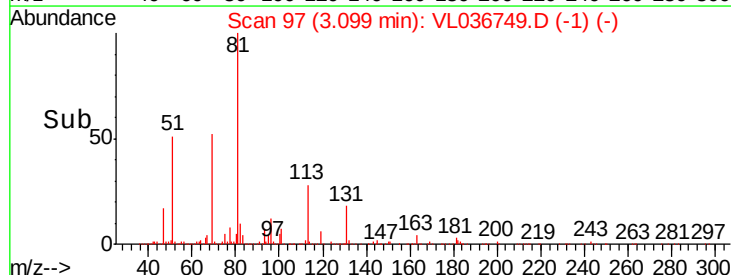
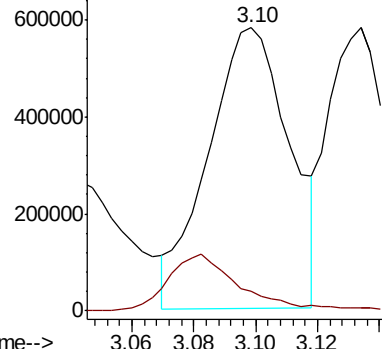
51 100

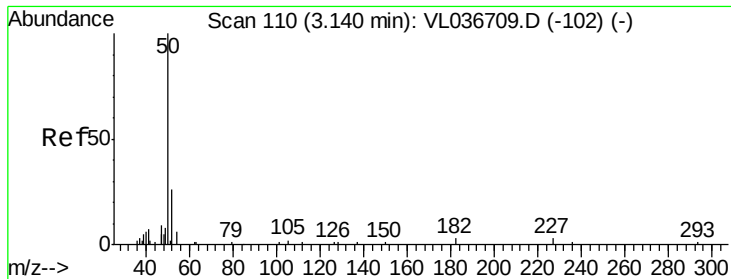
67 18.6 14.7 22.1



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.157 ppbv

RT: 3.13 min Scan# 107

Delta R.T. -0.01 min

Lab File: VL036749.D

Acq: 8 Apr 2021 14:02

Instrument :

MSVOA_L

ClientSampleID :

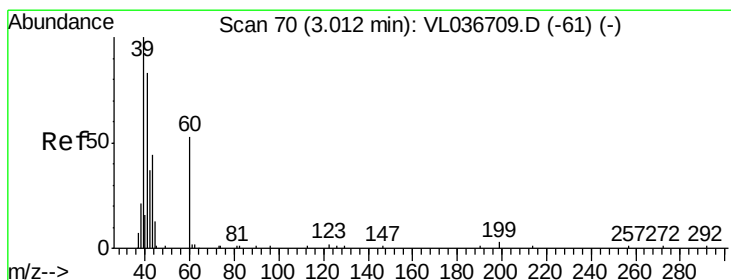
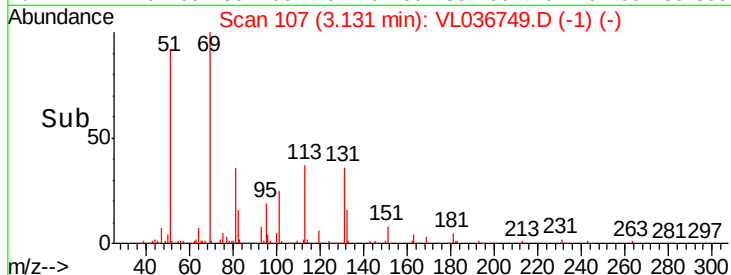
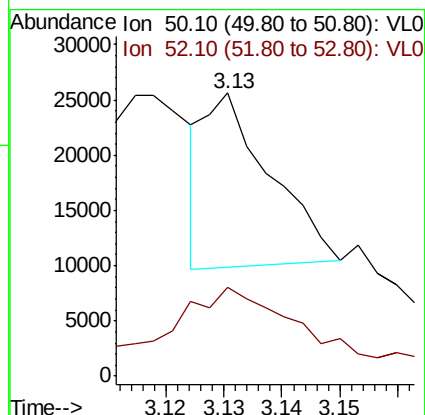
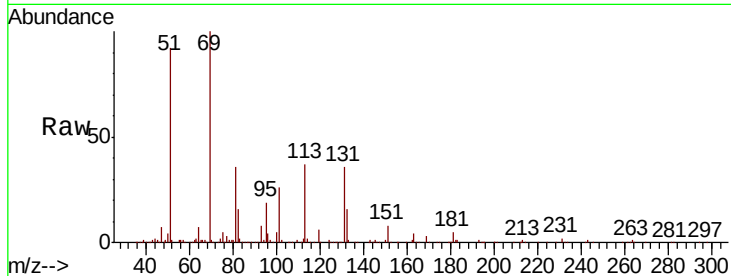
SG-1DL

Tot Ion: 50 Resp: 12314

Ion Ratio Lower Upper

50 100

52 30.7 27.0 40.6



#9

Propene

Concen: 3.902 ppbv

RT: 3.00 min Scan# 67

Delta R.T. -0.01 min

Lab File: VL036749.D

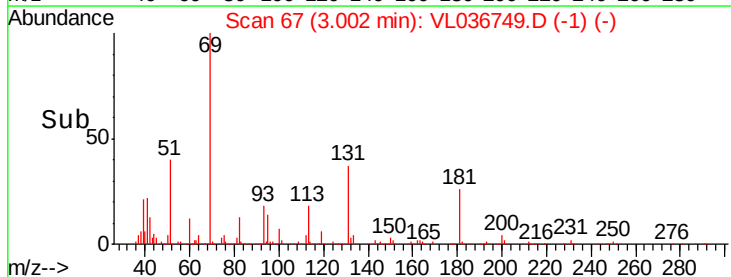
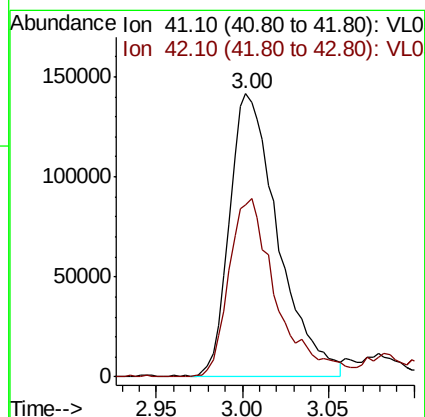
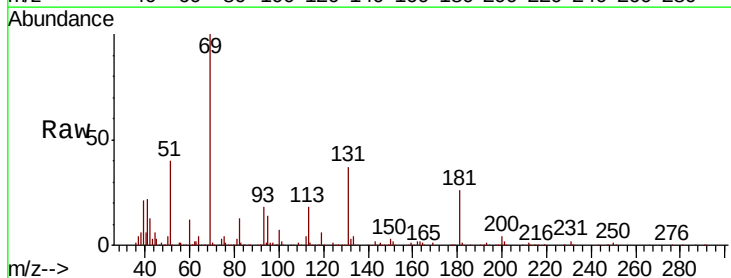
Acq: 8 Apr 2021 14:02

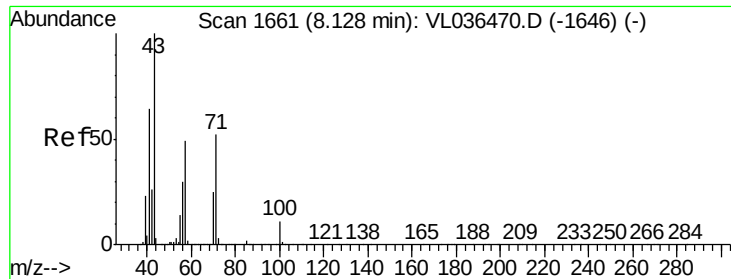
Tgt Ion: 41 Resp: 276316

Ion Ratio Lower Upper

41 100

42 62.0 57.0 85.4

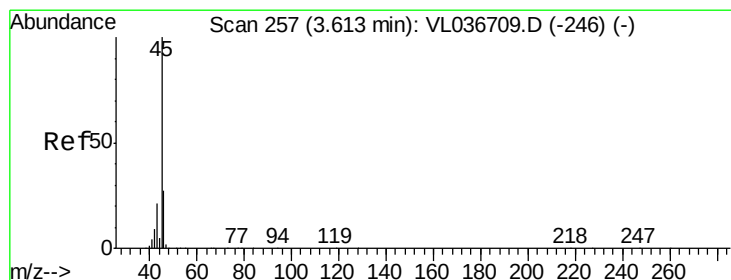
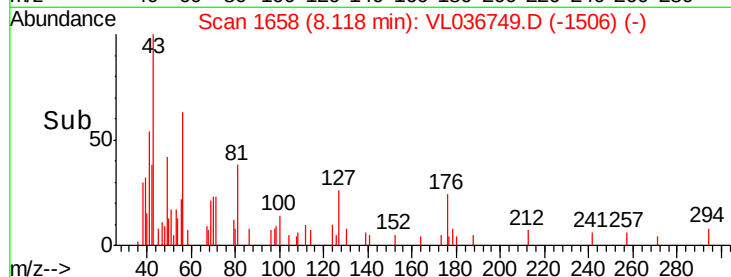
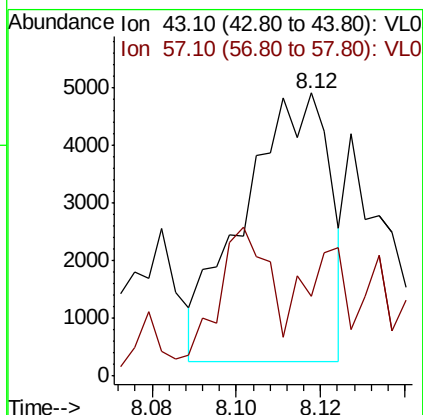
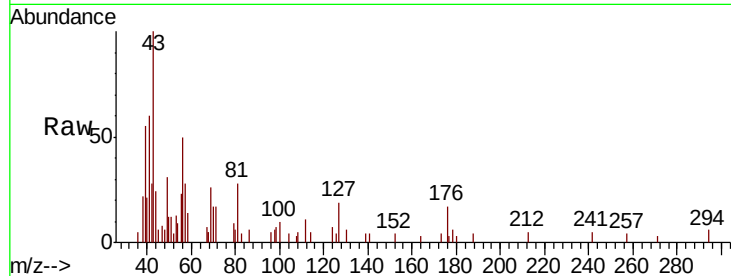




#10
Heptane
Concen: 0.037 ppbv
RT: 8.12 min Scan# 1658
Delta R.T. -0.01 min
Lab File: VL036749.D
Acq: 8 Apr 2021 14:02

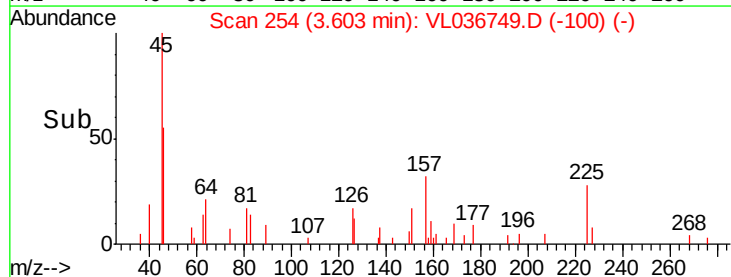
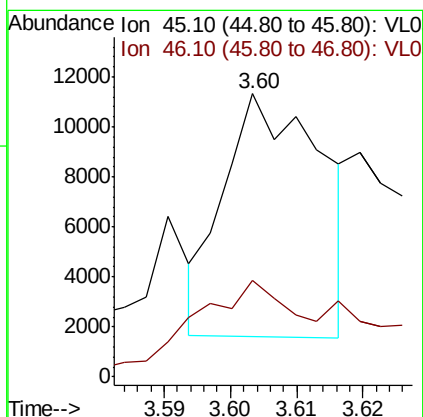
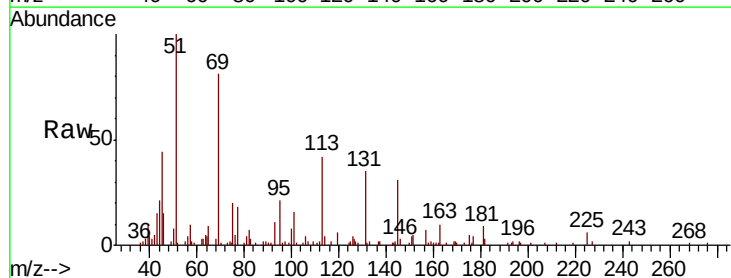
Instrument :
MSVOA_L
ClientSampled :
SG-1DL

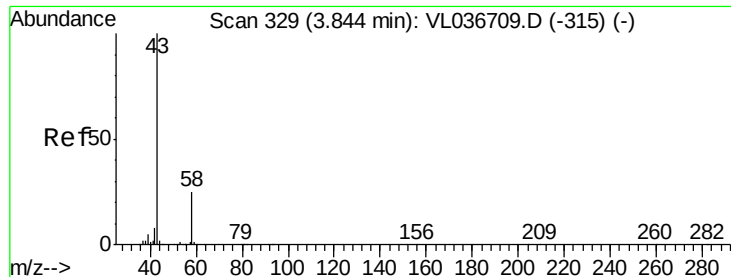
Tot Ion: 43 Resp: 6589
Ion Ratio Lower Upper
43 100
57 42.2 39.0 58.6



#13
Ethanol
Concen: 1.186 ppbv
RT: 3.60 min Scan# 254
Delta R.T. -0.00 min
Lab File: VL036749.D
Acq: 8 Apr 2021 14:02

Tgt Ion: 45 Resp: 9998
Ion Ratio Lower Upper
45 100
46 108.8 16.6 66.2#





#15

Acetone

Concen: 41.225 ppbv

RT: 3.84 min Scan# 328

Delta R.T. -0.01 min

Lab File: VL036749.D

Acq: 8 Apr 2021 14:02

Instrument :

MSVOA_L

ClientSampleId :

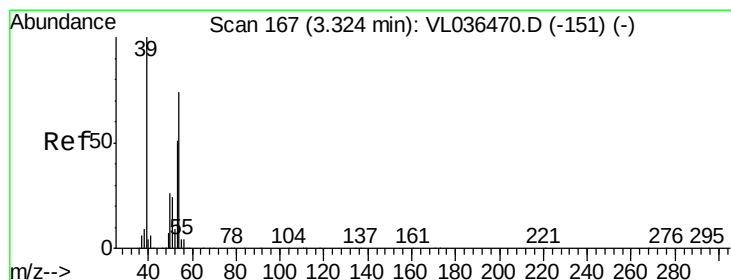
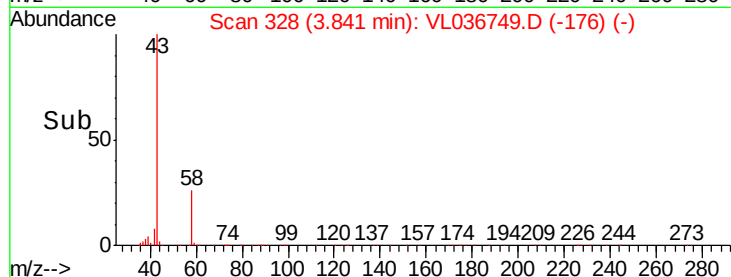
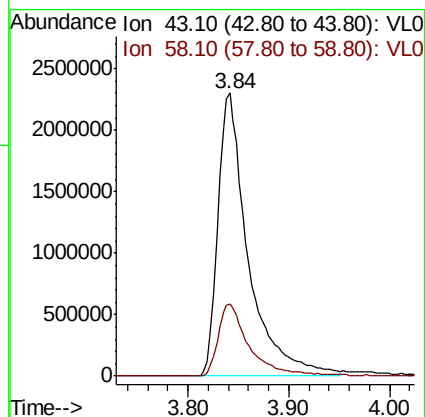
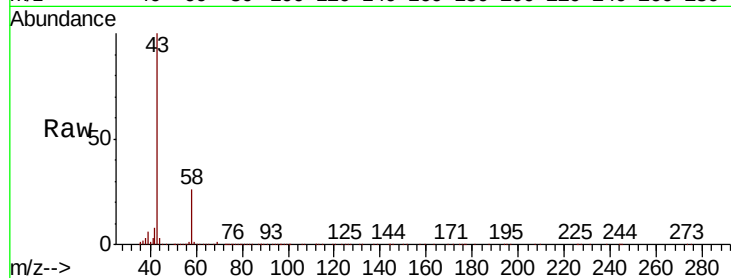
SG-1DL

Tot Ion: 43 Resp: 4823801

Ion Ratio Lower Upper

43 100

58 26.6 21.2 31.8



#16

1,3-Butadiene

Concen: 6.856 ppbv

RT: 3.30 min Scan# 160

Delta R.T. -0.02 min

Lab File: VL036749.D

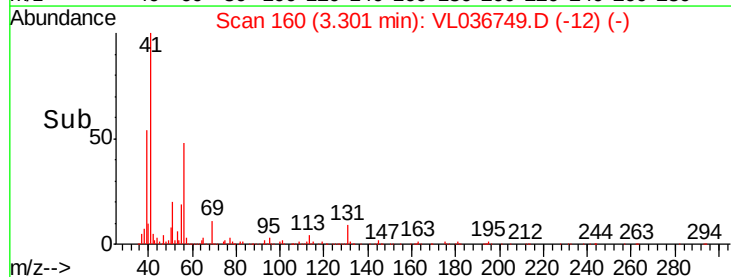
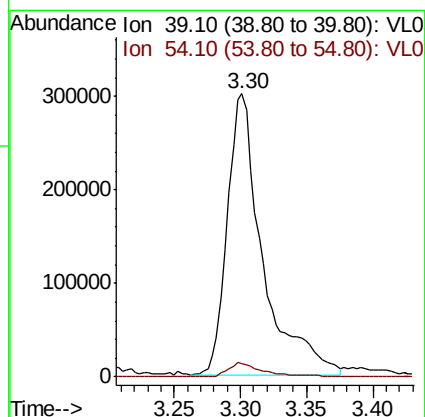
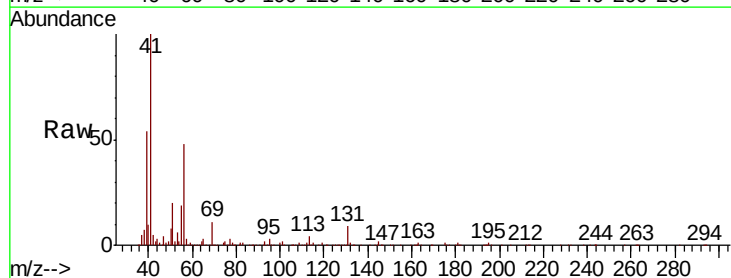
Acq: 8 Apr 2021 14:02

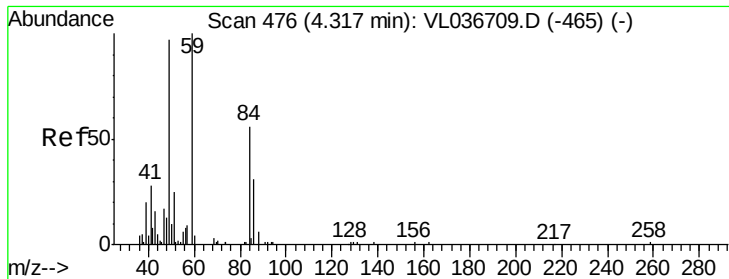
Tgt Ion: 39 Resp: 558483

Ion Ratio Lower Upper

39 100

54 5.2 58.8 88.2#



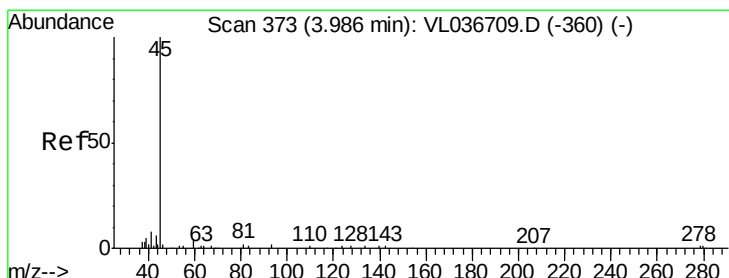
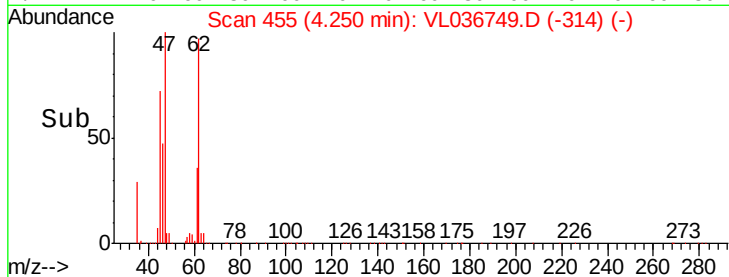
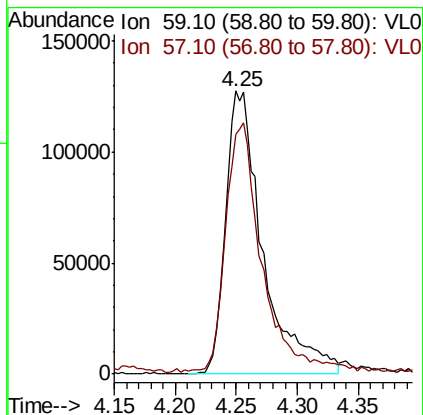
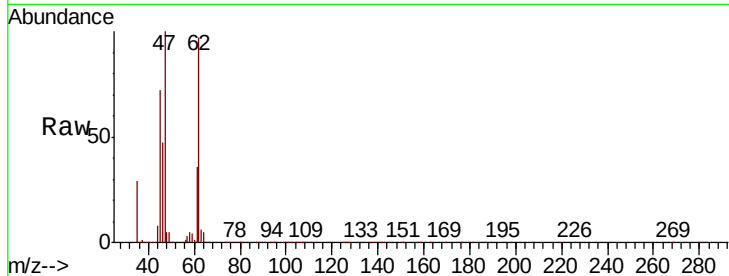


#17

tert-Butyl alcohol
 Concen: 2.683 ppbv
 RT: 4.25 min Scan# 455
 Delta R.T. -0.05 min
 Lab File: VL036749.D
 Acq: 8 Apr 2021 14:02

Instrument :
 MSVOA_L
 ClientSampleID :
 SG-1DL

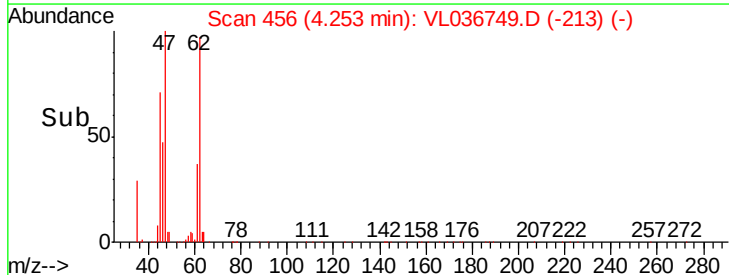
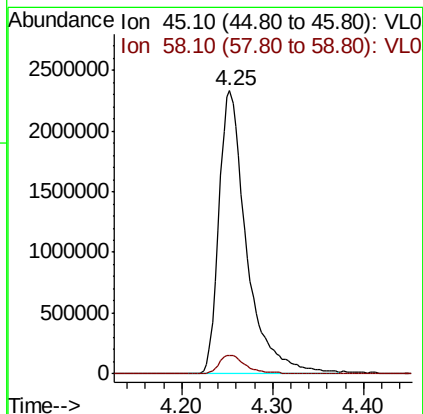
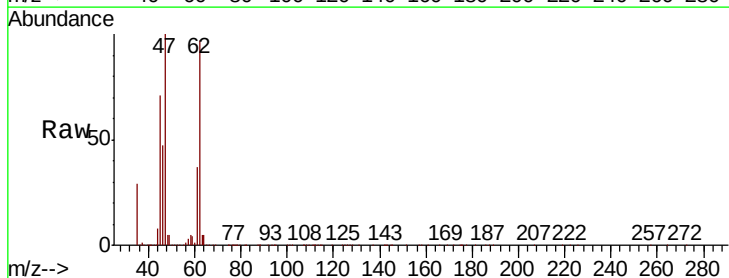
Tot Ion: 59 Resp: 273301
 Ion Ratio Lower Upper
 59 100
 57 91.7 8.6 12.8#

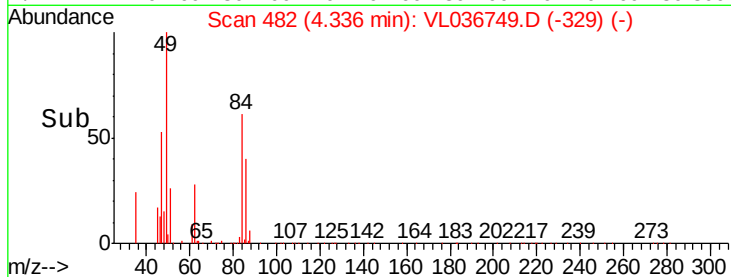
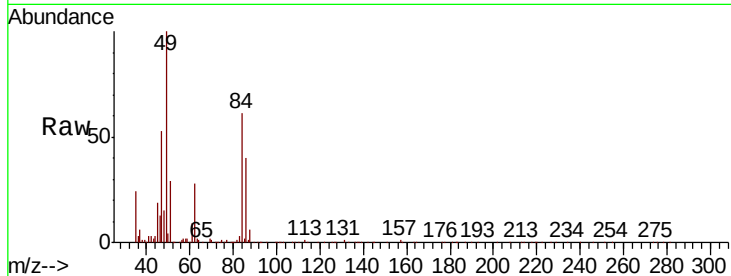
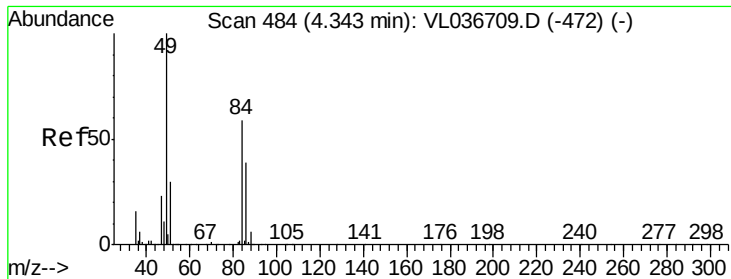


#19

Isopropyl Alcohol
 Concen: 76.644 ppbv
 RT: 4.25 min Scan# 456
 Delta R.T. 0.28 min
 Lab File: VL036749.D
 Acq: 8 Apr 2021 14:02

Tgt Ion: 45 Resp: 4933378
 Ion Ratio Lower Upper
 45 100
 58 0.0 2.9 4.3#

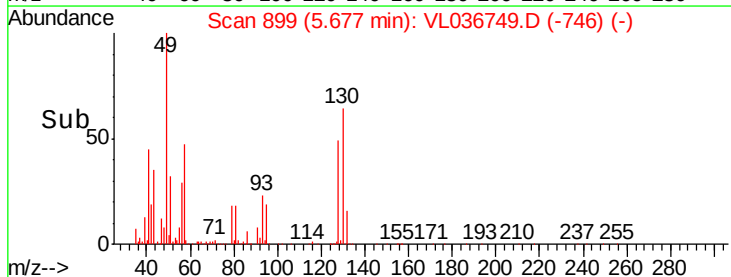
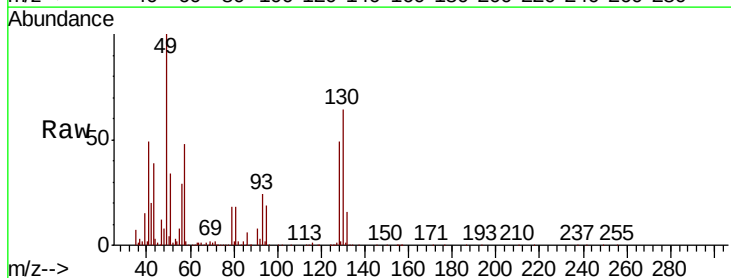
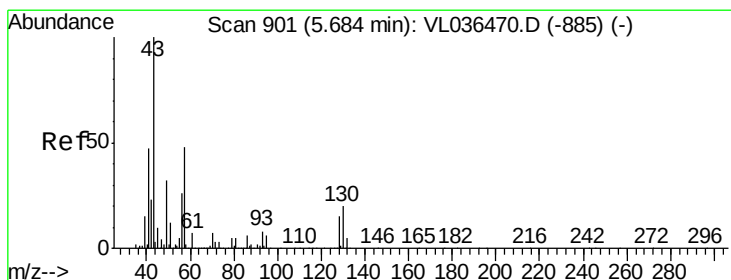
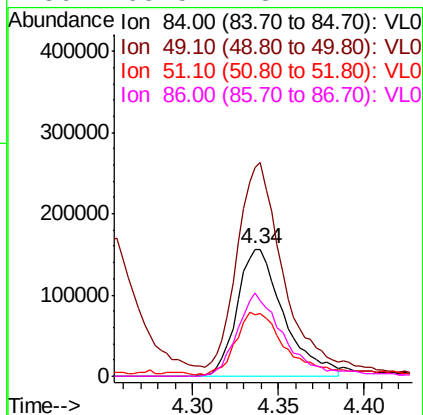




#20
Methylene Chloride
Concen: 5.360 ppbv
RT: 4.34 min Scan# 482
Delta R.T. -0.01 min
Lab File: VL036749.D
Acq: 8 Apr 2021 14:02

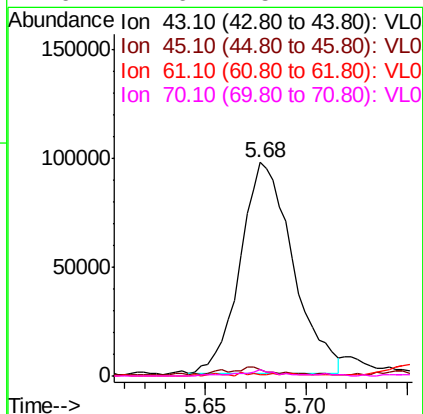
Instrument :
MSVOA_L
ClientSampleId :
SG-1DL

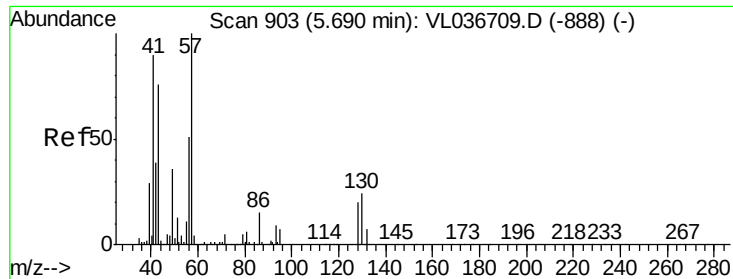
Tot Ion:	84	Resp:	293632
Ion	Ratio	Lower	Upper
84	100		
49	154.2	122.9	184.3
51	46.4	36.9	55.3
86	65.5	48.2	72.4



#25
Ethyl Acetate
Concen: 0.631 ppbv
RT: 5.68 min Scan# 899
Delta R.T. -0.01 min
Lab File: VL036749.D
Acq: 8 Apr 2021 14:02

Tgt Ion:	43	Resp:	175472
Ion	Ratio	Lower	Upper
43	100		
45	4.4	7.9	11.9#
61	2.0	7.4	11.2#
70	2.6	5.1	7.7#

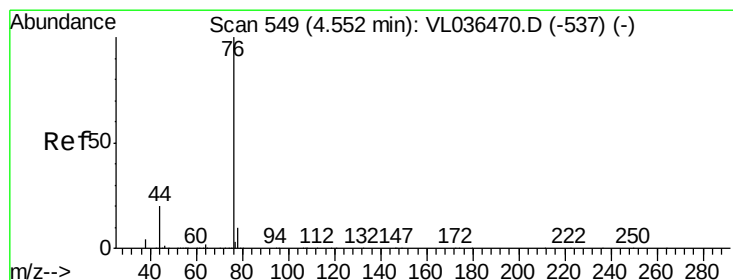
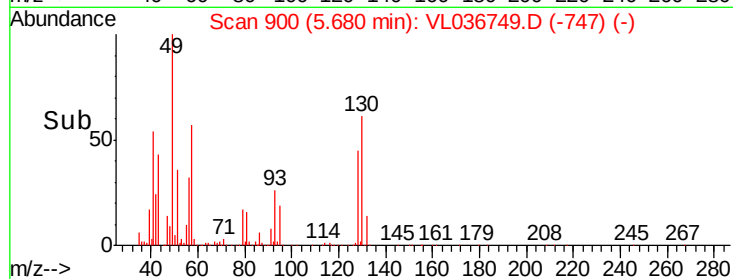
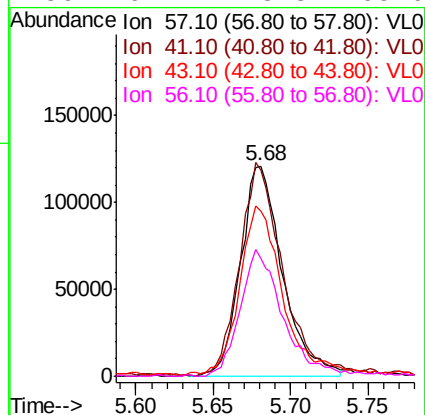
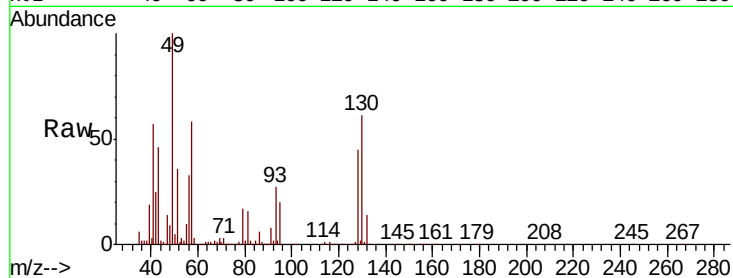




#26
Hexane
Concen: 1.767 ppbv
RT: 5.68 min Scan# 900
Delta R.T. -0.01 min
Lab File: VL036749.D
Acq: 8 Apr 2021 14:02

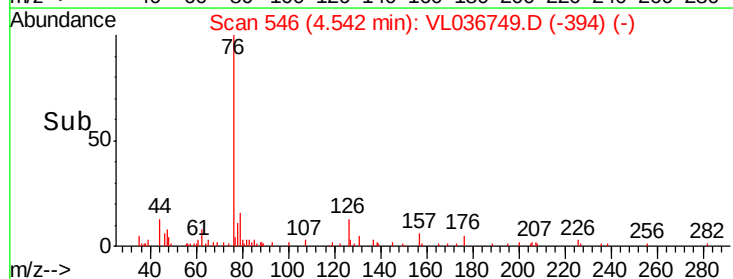
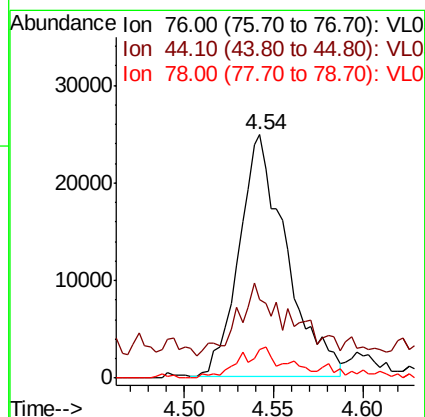
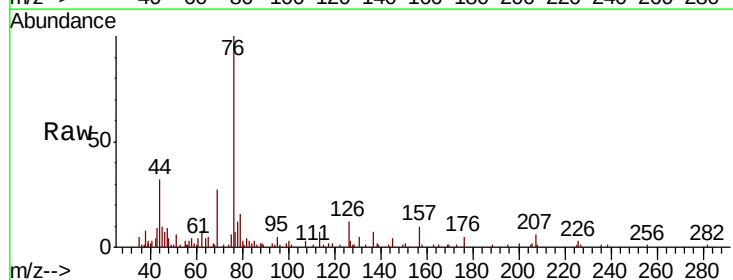
Instrument :
MSVOA_L
ClientSampled :
SG-1DL

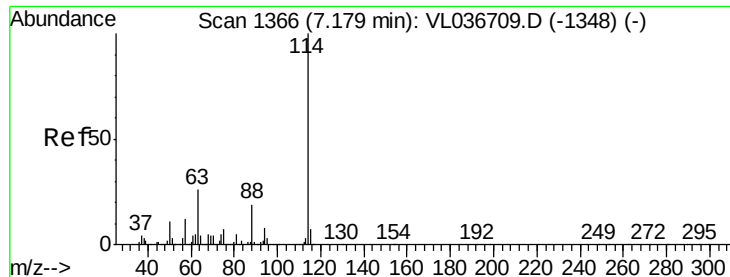
Tot Ion: 57 Resp: 228104
Ion Ratio Lower Upper
57 100
41 106.6 77.2 115.8
43 84.8 173.8 260.6#
56 62.4 43.8 65.6



#27
Carbon Disulfide
Concen: 0.359 ppbv
RT: 4.54 min Scan# 546
Delta R.T. -0.01 min
Lab File: VL036749.D
Acq: 8 Apr 2021 14:02

Tgt Ion: 76 Resp: 45661
Ion Ratio Lower Upper
76 100
44 36.9 17.5 26.3#
78 16.2 8.6 13.0#

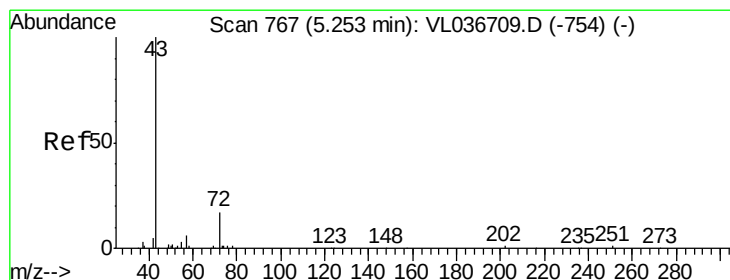
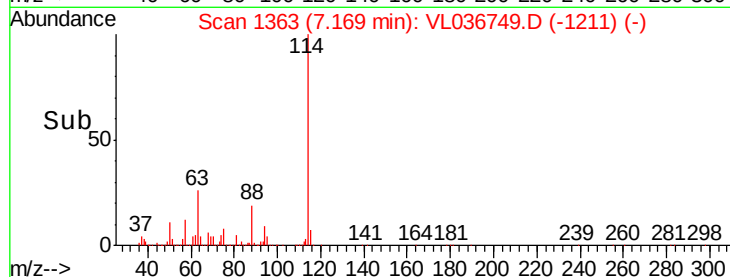
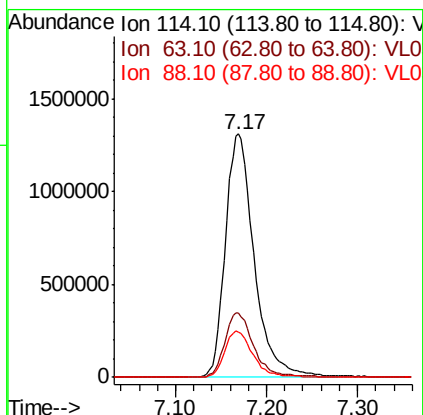
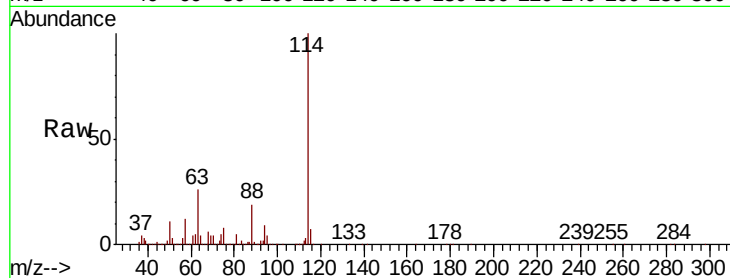




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1363
 Delta R.T. -0.01 min
 Lab File: VL036749.D
 Acq: 8 Apr 2021 14:02

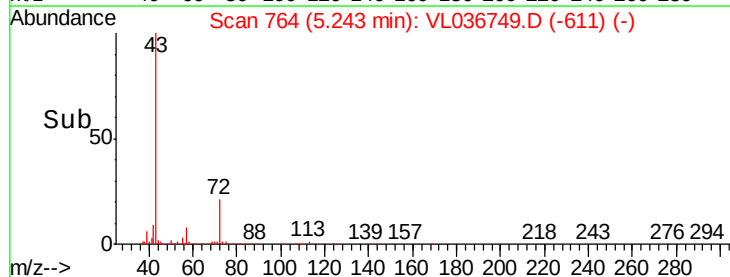
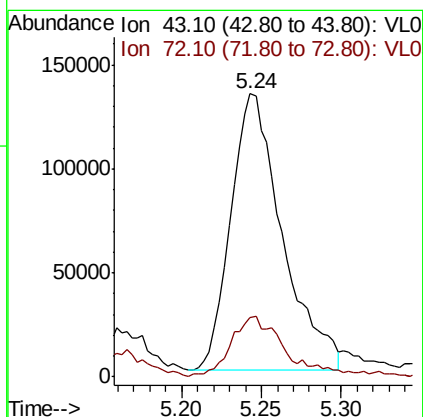
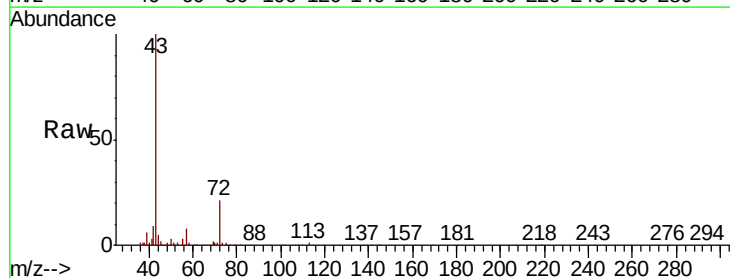
Instrument :
 MSVOA_L
 ClientSampleId :
 SG-1DL

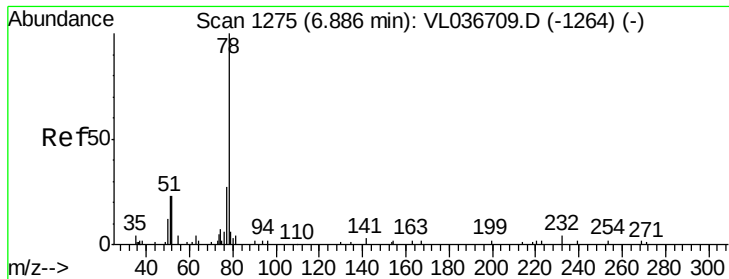
Tot Ion:114 Resp: 2875888
 Ion Ratio Lower Upper
 114 100
 63 26.9 22.4 33.6
 88 19.1 15.4 23.0



#34
 2-Butanone
 Concen: 2.084 ppbv
 RT: 5.24 min Scan# 764
 Delta R.T. -0.01 min
 Lab File: VL036749.D
 Acq: 8 Apr 2021 14:02

Tgt Ion: 43 Resp: 292582
 Ion Ratio Lower Upper
 43 100
 72 24.2 17.0 25.6





#36

Benzene

Concen: 0.242 ppbv

RT: 6.89 min Scan# 1275

Delta R.T. -0.01 min

Lab File: VL036749.D

Acq: 8 Apr 2021 14:02

Instrument :

MSVOA_L

ClientSampleId :

SG-1DL

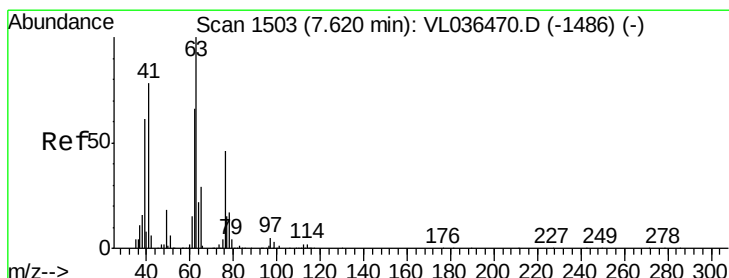
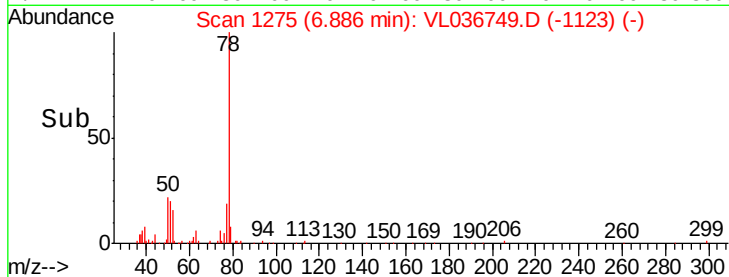
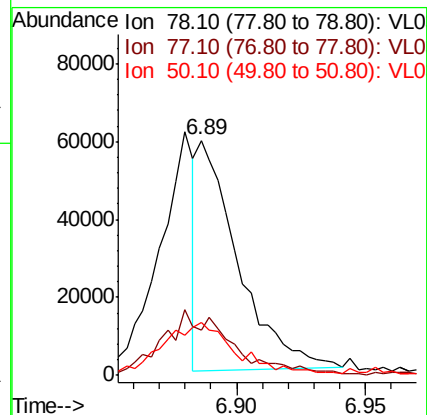
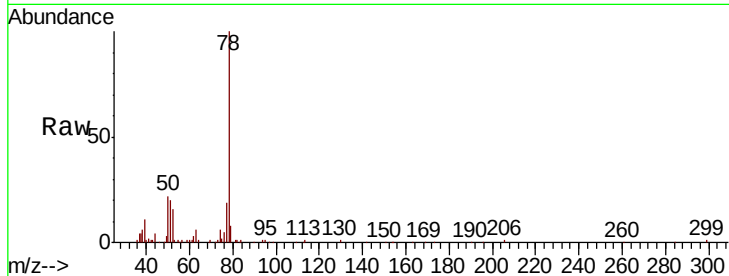
Tot Ion: 78 Resp: 64095

Ion Ratio Lower Upper

78 100

77 19.0 18.0 27.0

50 22.2 16.5 24.7



#39

1,2-Dichloropropane

Concen: 6.982 ppbv

RT: 7.17 min Scan# 1363

Delta R.T. -0.45 min

Lab File: VL036749.D

Acq: 8 Apr 2021 14:02

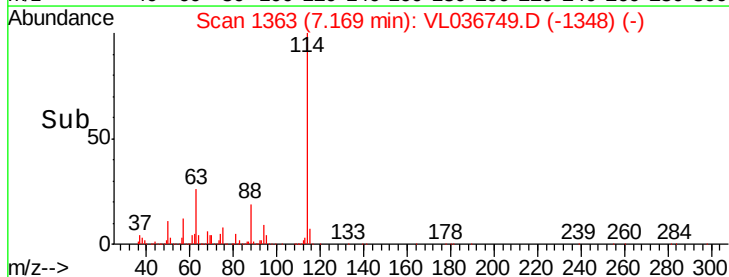
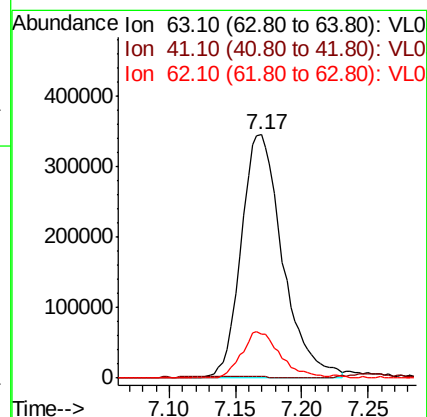
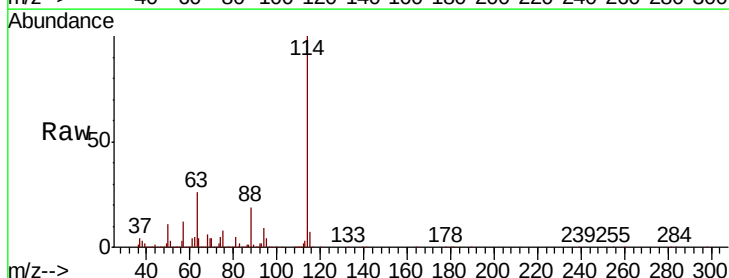
Tgt Ion: 63 Resp: 751244

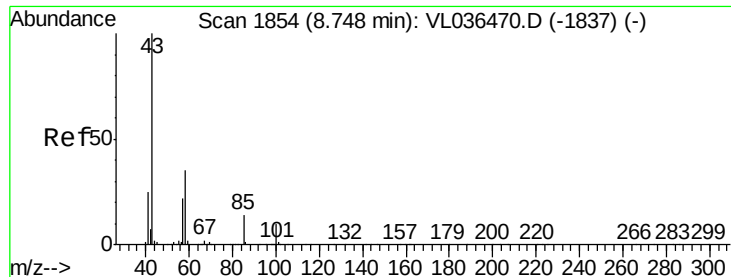
Ion Ratio Lower Upper

63 100

41 0.0 62.4 93.6#

62 18.1 52.8 79.2#

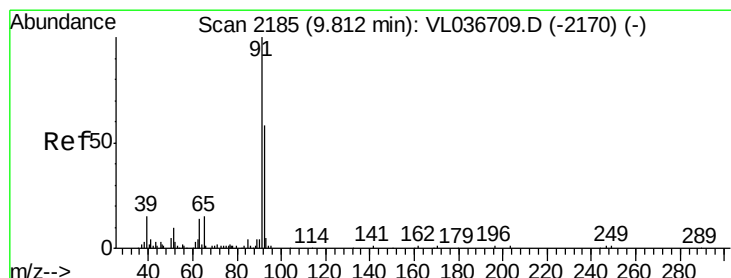
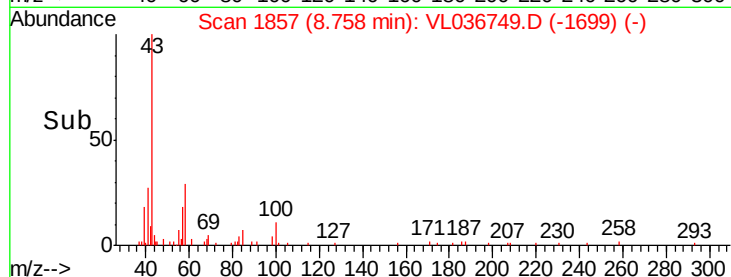
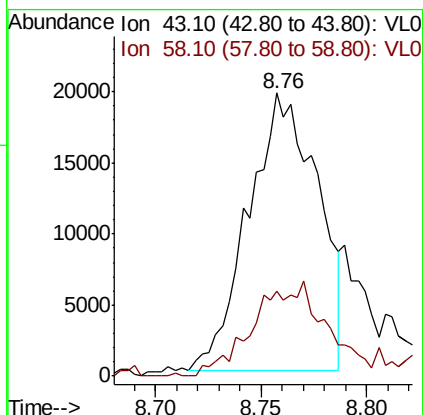
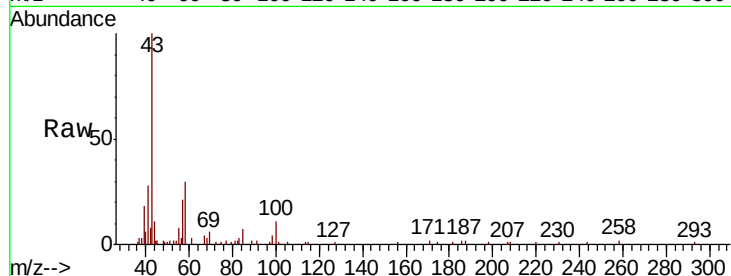




#50
 4-Methyl-2-Pentanone
 Concen: 0.220 ppbv
 RT: 8.76 min Scan# 1857
 Delta R.T. 0.01 min
 Lab File: VL036749.D
 Acq: 8 Apr 2021 14:02

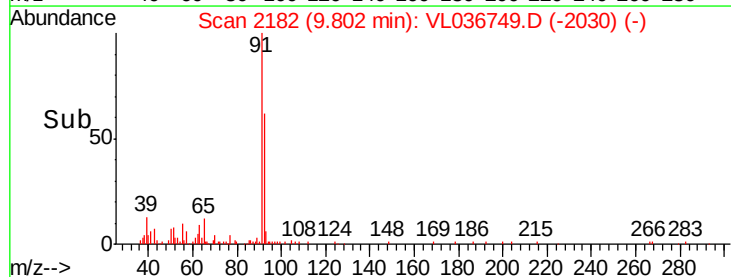
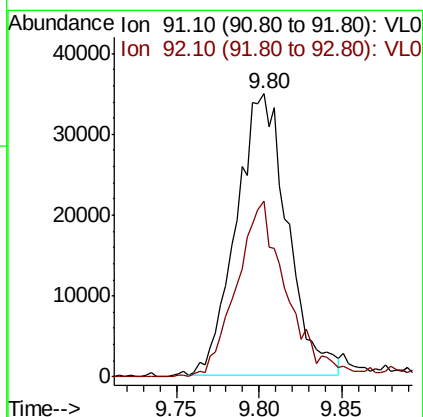
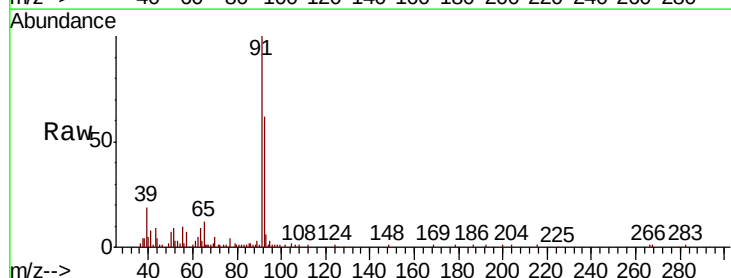
Instrument :
 MSVOA_L
 ClientSampleID :
 SG-1DL

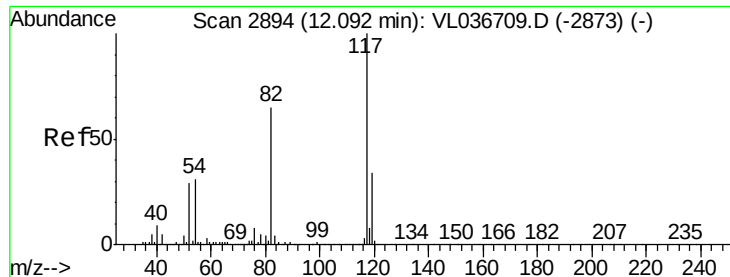
Tot Ion: 43 Resp: 44757
 Ion Ratio Lower Upper
 43 100
 58 38.6 28.2 42.2



#53
 Toluene
 Concen: 0.266 ppbv
 RT: 9.80 min Scan# 2182
 Delta R.T. -0.01 min
 Lab File: VL036749.D
 Acq: 8 Apr 2021 14:02

Tgt Ion: 91 Resp: 75003
 Ion Ratio Lower Upper
 91 100
 92 61.1 48.8 73.2

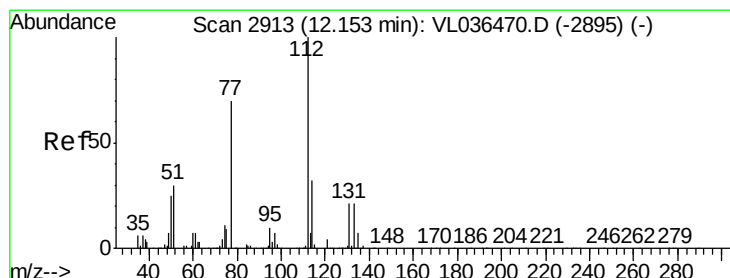
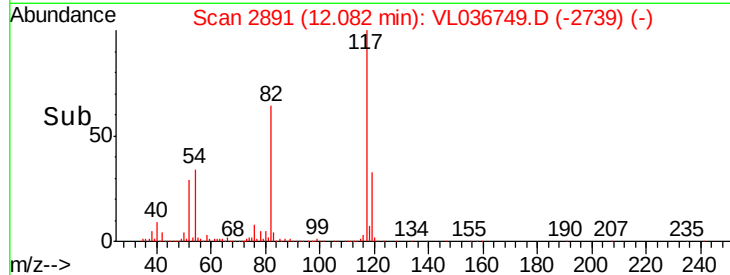
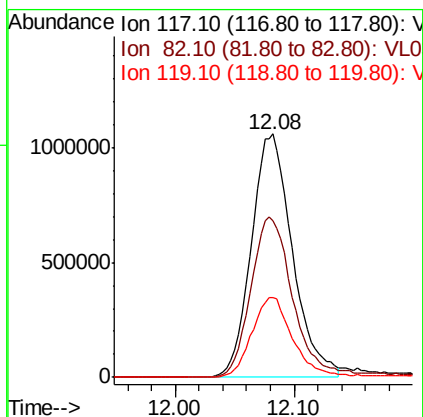
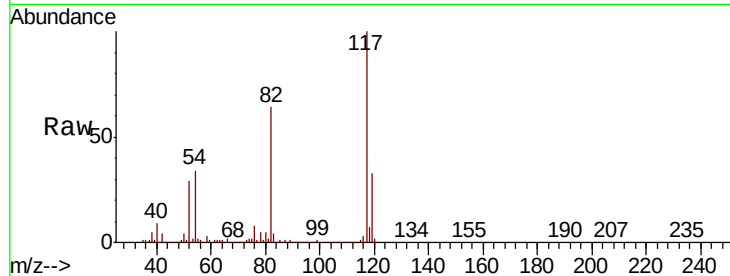




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min Scan# 2891
Delta R.T. -0.01 min
Lab File: VL036749.D
Acq: 8 Apr 2021 14:02

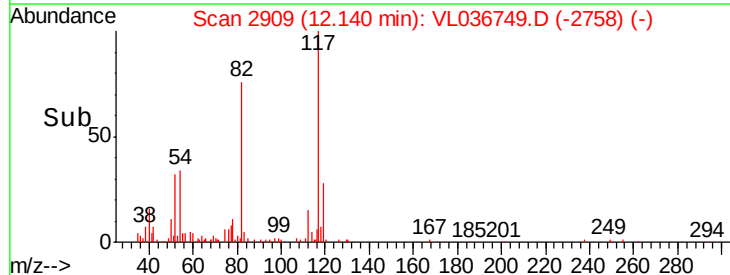
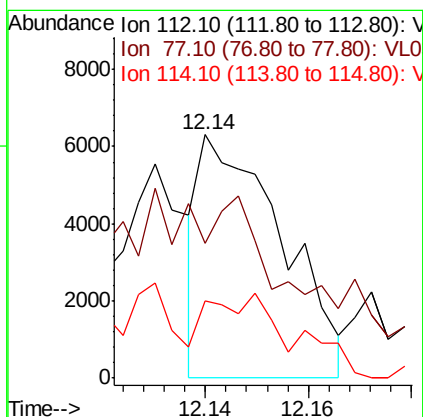
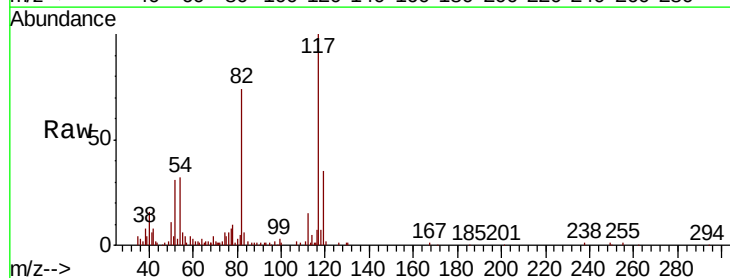
Instrument :
MSVOA_L
ClientSampled :
SG-1DL

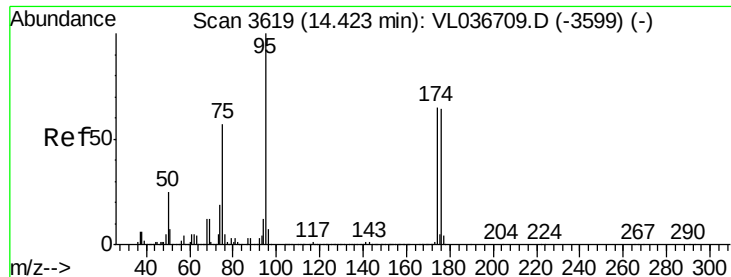
Tot Ion:117 Resp: 2528525
Ion Ratio Lower Upper
117 100
82 71.0 57.4 86.0
119 34.0 47.4 71.0#



#57
Chlorobenzene
Concen: 0.033 ppbv
RT: 12.14 min Scan# 2909
Delta R.T. -0.01 min
Lab File: VL036749.D
Acq: 8 Apr 2021 14:02

Tgt Ion:112 Resp: 7005
Ion Ratio Lower Upper
112 100
77 13.0 56.0 84.0#
114 29.8 29.0 35.4





#68

1-Bromo-4-Fluorobenzene

Concen: 9.891 ppbv

RT: 14.41 min Scan# 3615

Delta R.T. -0.01 min

Lab File: VL036749.D

Acq: 8 Apr 2021 14:02

Instrument :

MSVOA_L

ClientSampleId :

SG-1DL

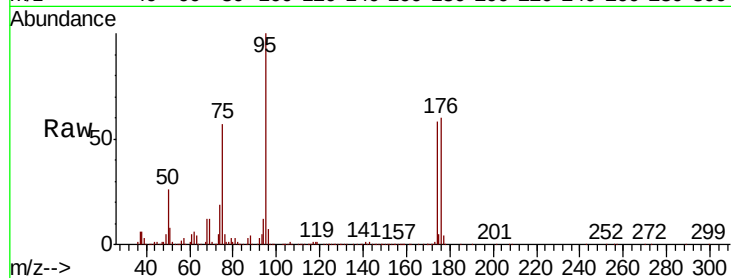
Tot Ion: 95 Resp: 1993362

Ion Ratio Lower Upper

95 100

174 65.0 51.0 76.6

175 4.5 3.9 5.9



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

