

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040821\
 Data File : VL036757.D
 Acq On : 8 Apr 2021 19:18
 Operator : SY/AP
 Sample : M1981-03DL 40X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-2DL

Quant Time: Apr 09 08:40:34 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	1418963	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3575579	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2863272	10.00	ppbv	-0.01

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.41	95	1758106	7.70	ppbv	0.00	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	77.00%	

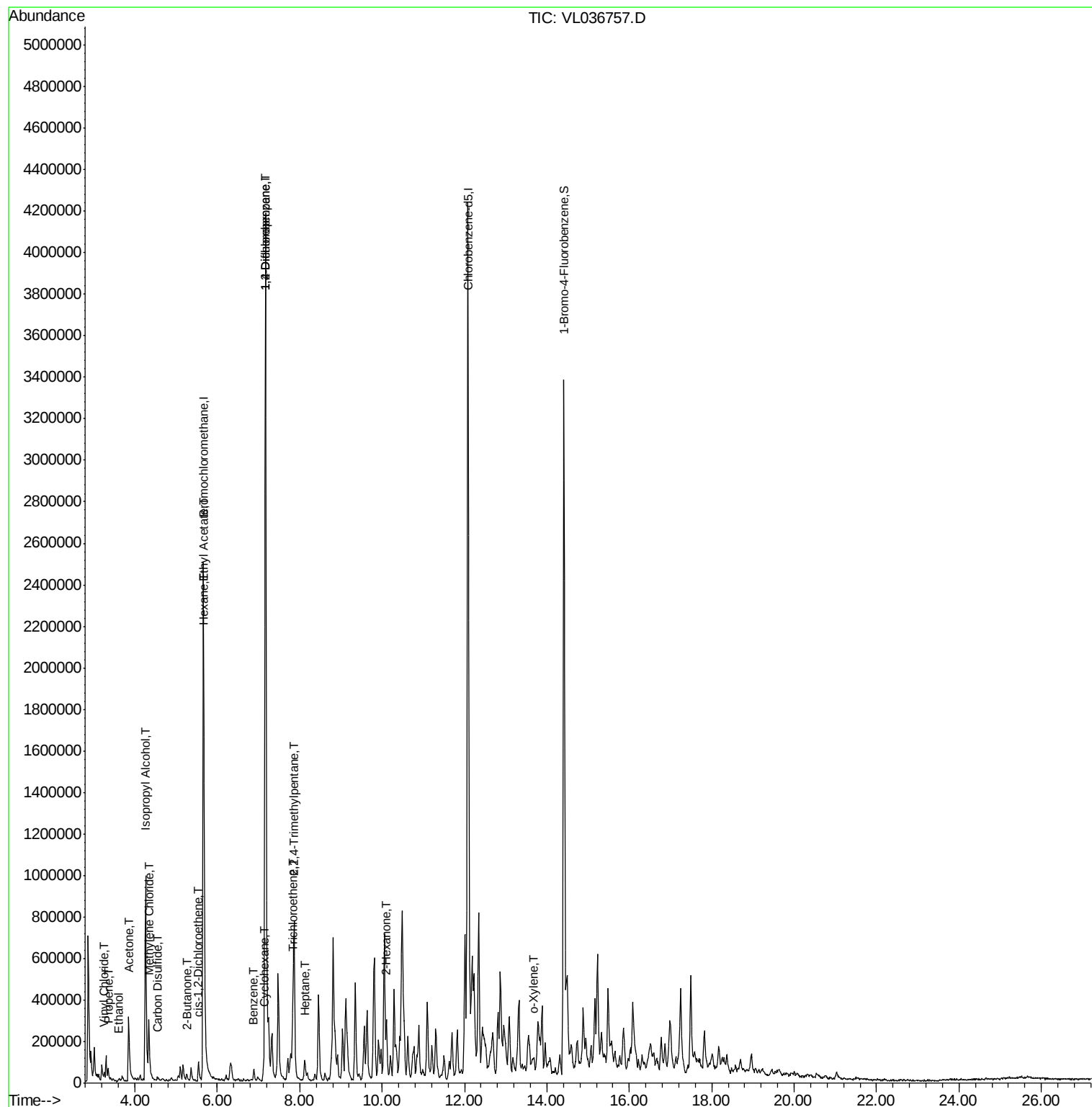
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.25	62	28966	0.301	ppbv #	79
9) Propene	3.35	41	10213	0.121	ppbv	99
10) Heptane	8.12	43	19635	0.091	ppbv #	21
13) Ethanol	3.61	45	4112	0.409	ppbv #	34
15) Acetone	3.85	43	389804	2.791	ppbv	91
19) Isopropyl Alcohol	4.26	45	332122	4.323	ppbv #	89
20) Methylene Chloride	4.34	84	90594	1.385	ppbv	92
25) Ethyl Acetate	5.68	43	76573	0.231	ppbv #	85
26) Hexane	5.68	57	98112	0.637	ppbv #	46
27) Carbon Disulfide	4.55	76	15329	0.101	ppbv #	79
30) Cyclohexane	7.12	84	17100	0.137	ppbv #	12
31) cis-1,2-Dichloroethene	5.54	61	56322	0.378	ppbv #	87
34) 2-Butanone	5.26	43	42711	0.245	ppbv	93
36) Benzene	6.89	78	39196	0.119	ppbv	95
38) Trichloroethene	7.83	130	82929	0.646	ppbv	90
39) 1,2-Dichloropropane	7.17	63	943049	7.050	ppbv #	24
44) 2,2,4-Trimethylpentane	7.86	57	530793	0.915	ppbv #	74
51) 2-Hexanone	10.10	43	132211	1.037	ppbv #	30
60) o-Xylene	13.69	91	23756	0.068	ppbv #	21

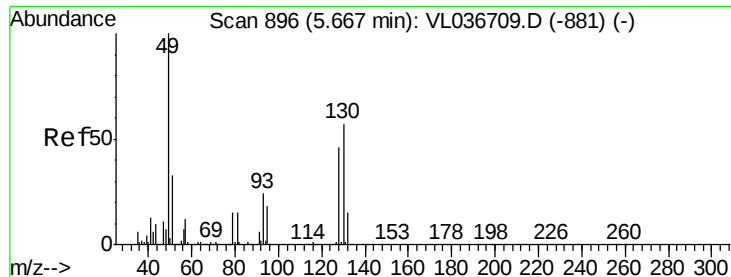
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Mar 25 09:42:40 2021
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.01 min

Lab File: VL036757.D

Acq: 8 Apr 2021 19:18

Instrument :

MSVOA_L

ClientSampleId :

SG-2DL

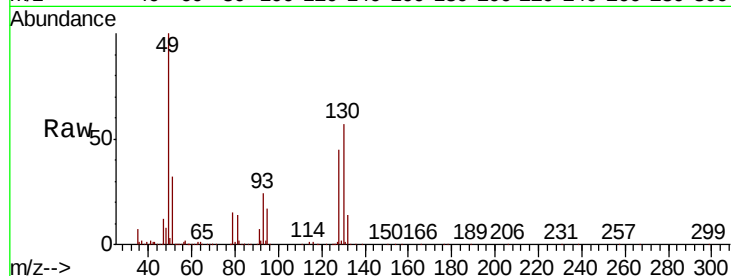
Tot Ion: 49 Resp: 1418963

Ion Ratio Lower Upper

49 100

128 48.9 23.5 70.6

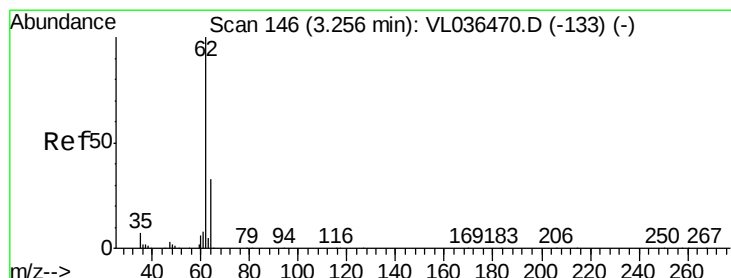
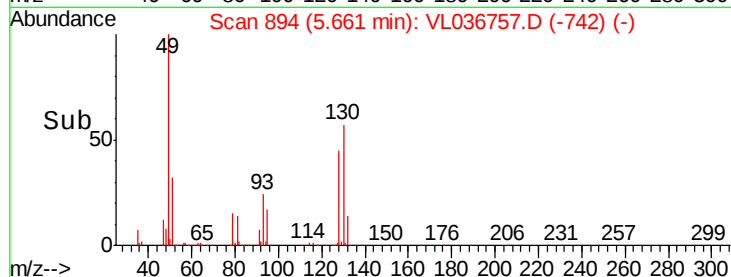
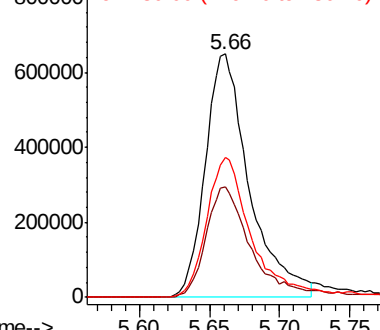
130 61.7 29.1 87.4



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



#5

Vinyl Chloride

Concen: 0.301 ppbv

RT: 3.25 min Scan# 144

Delta R.T. -0.01 min

Lab File: VL036757.D

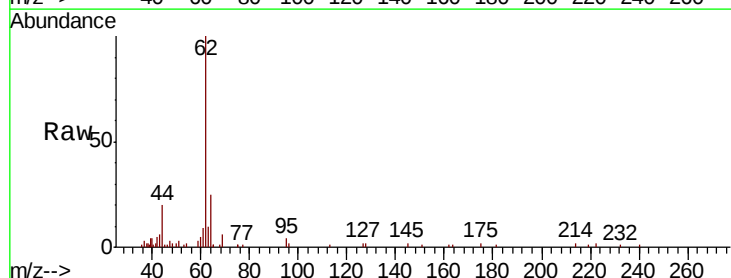
Acq: 8 Apr 2021 19:18

Tgt Ion: 62 Resp: 28966

Ion Ratio Lower Upper

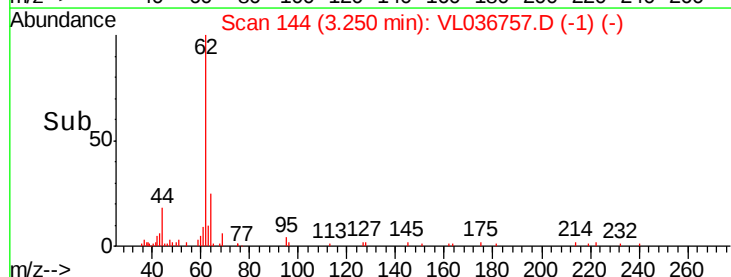
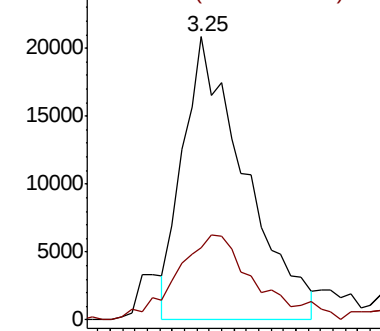
62 100

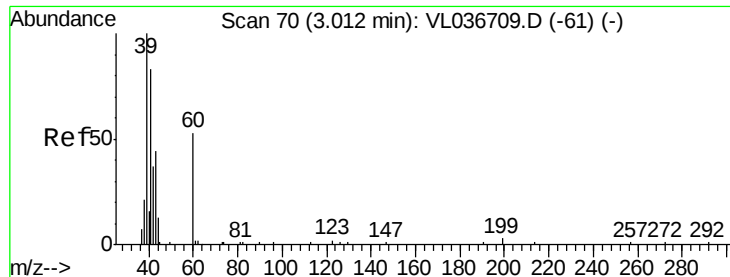
64 21.2 26.4 39.6#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0





#9

Propene

Concen: 0.121 ppbv

RT: 3.35 min Scan# 174

Delta R.T. 0.34 min

Lab File: VL036757.D

Acq: 8 Apr 2021 19:18

Instrument :

MSVOA_L

ClientSampled :

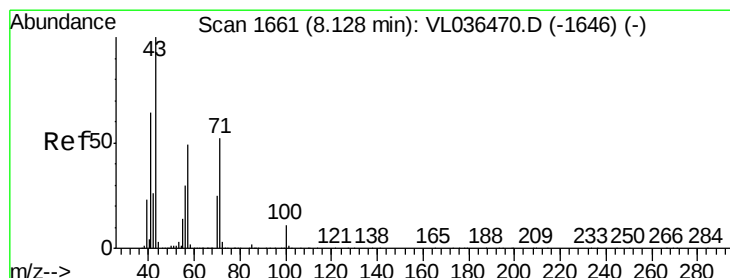
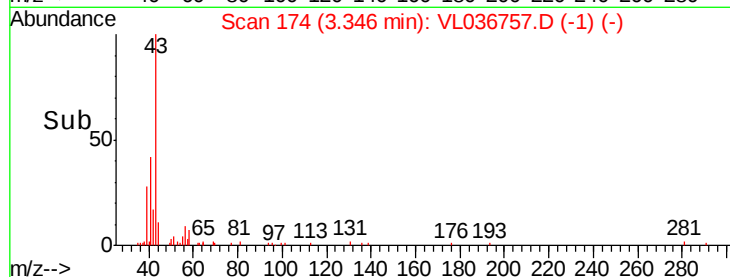
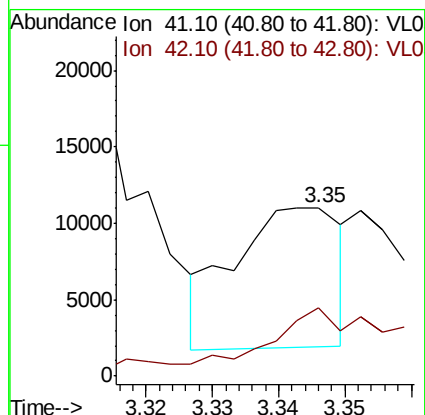
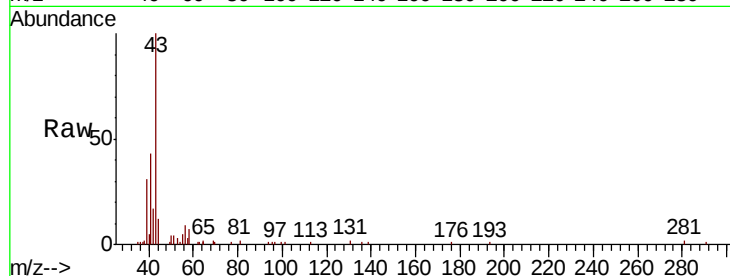
SG-2DL

Tot Ion: 41 Resp: 10213

Ion Ratio Lower Upper

41 100

42 72.0 57.0 85.4



#10

Heptane

Concen: 0.091 ppbv

RT: 8.12 min Scan# 1658

Delta R.T. -0.01 min

Lab File: VL036757.D

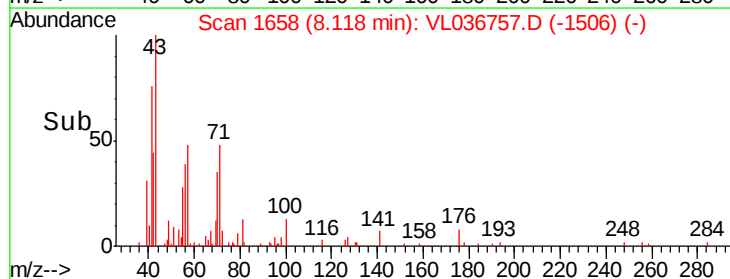
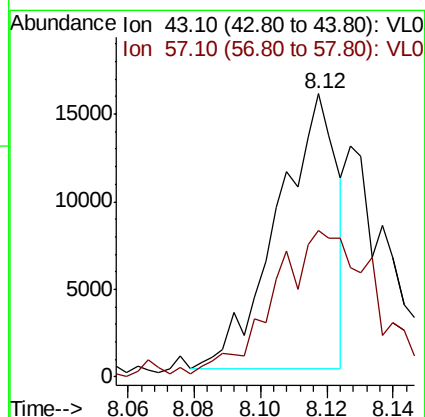
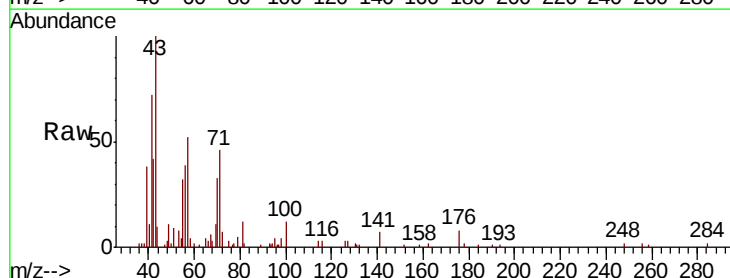
Acq: 8 Apr 2021 19:18

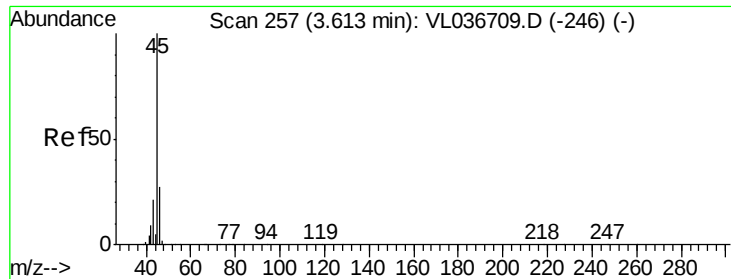
Tgt Ion: 43 Resp: 19635

Ion Ratio Lower Upper

43 100

57 102.7 39.0 58.6#

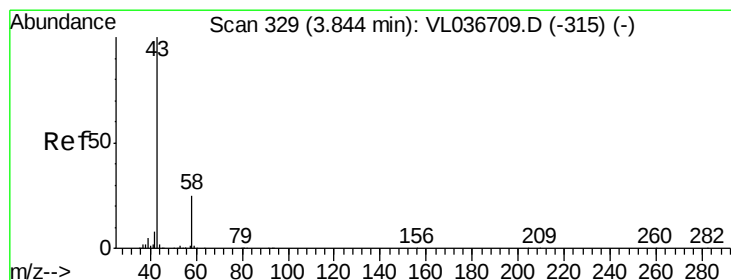
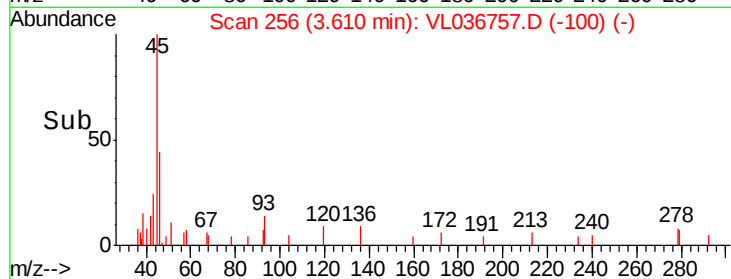
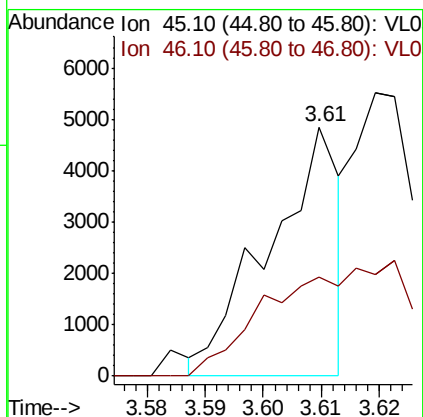
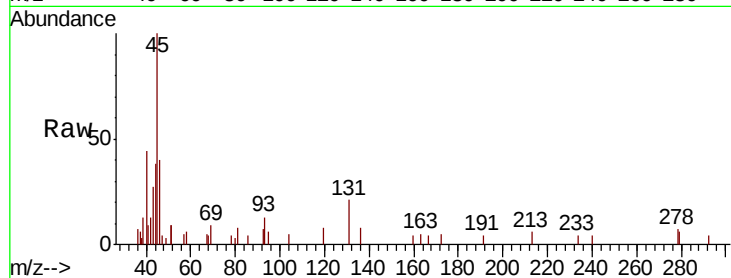




#13
Ethanol
Concen: 0.409 ppbv
RT: 3.61 min Scan# 256
Delta R.T. 0.00 min
Lab File: VL036757.D
Acq: 8 Apr 2021 19:18

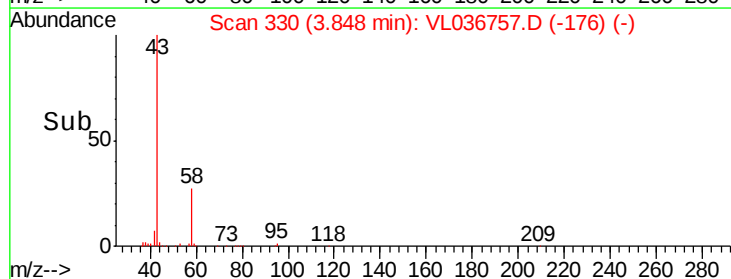
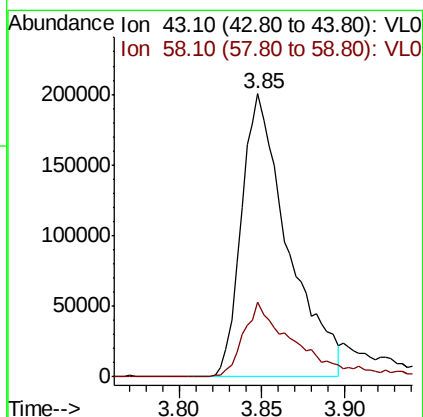
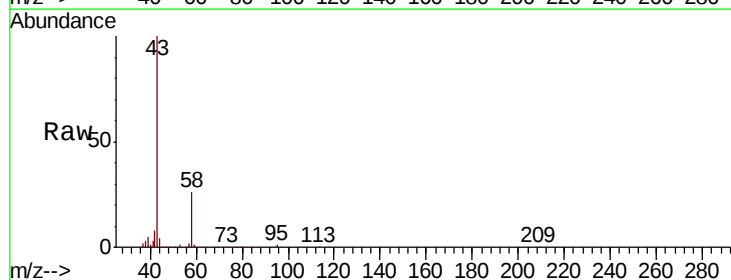
Instrument :
MSVOA_L
ClientSampleId :
SG-2DL

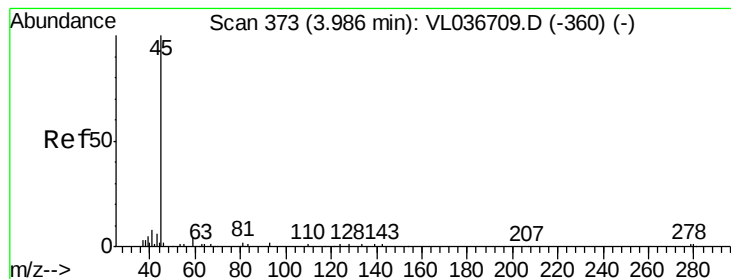
Tot Ion: 45 Resp: 4112
Ion Ratio Lower Upper
45 100
46 0.0 16.6 66.2#



#15
Acetone
Concen: 2.791 ppbv
RT: 3.85 min Scan# 330
Delta R.T. -0.00 min
Lab File: VL036757.D
Acq: 8 Apr 2021 19:18

Tgt Ion: 43 Resp: 389804
Ion Ratio Lower Upper
43 100
58 31.3 21.2 31.8





#19

Isopropyl Alcohol

Concen: 4.323 ppbv

RT: 4.26 min Scan# 457

Delta R.T. 0.29 min

Lab File: VL036757.D

Acq: 8 Apr 2021 19:18

Instrument :

MSVOA_L

ClientSampleId :

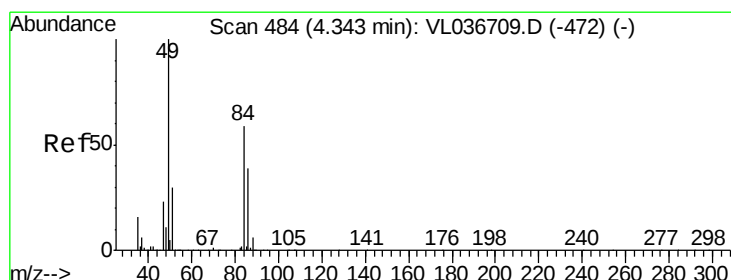
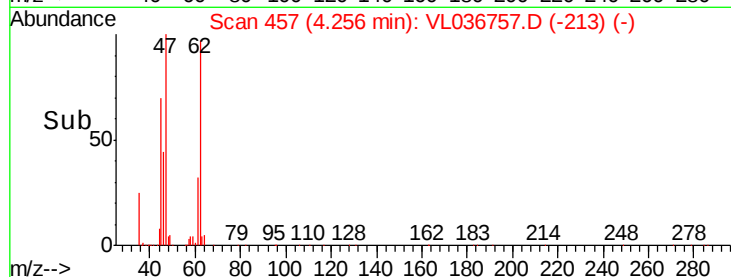
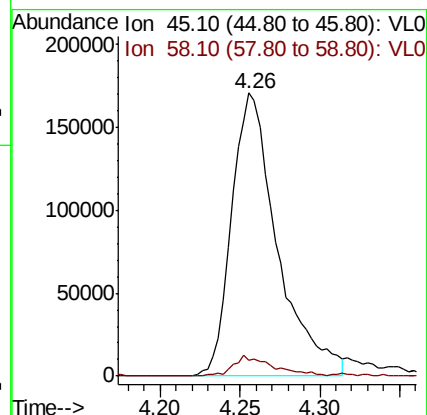
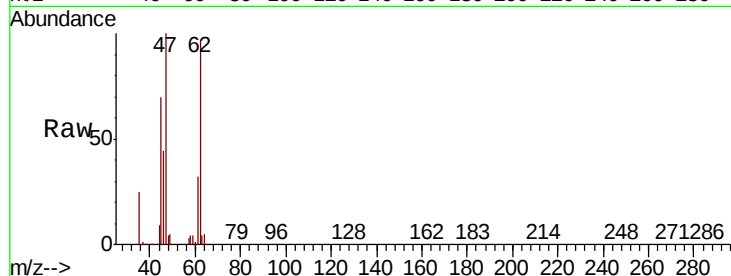
SG-2DL

Tot Ion: 45 Resp: 332122

Ion Ratio Lower Upper

45 100

58 7.1 2.9 4.3#



#20

Methylene Chloride

Concen: 1.385 ppbv

RT: 4.34 min Scan# 483

Delta R.T. -0.00 min

Lab File: VL036757.D

Acq: 8 Apr 2021 19:18

Tgt Ion: 84 Resp: 90594

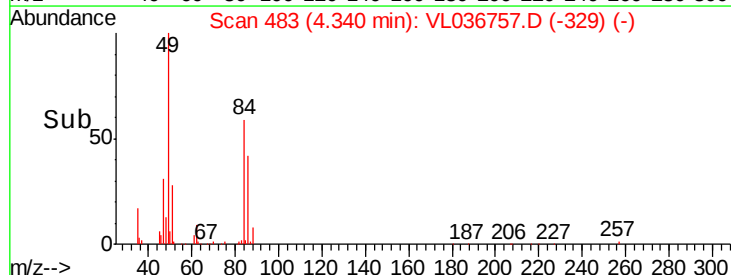
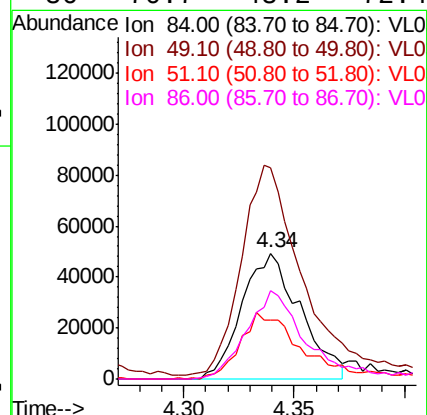
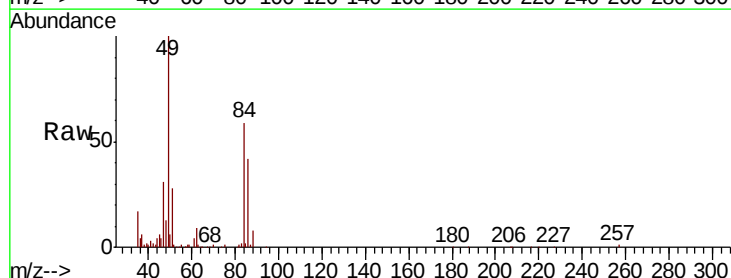
Ion Ratio Lower Upper

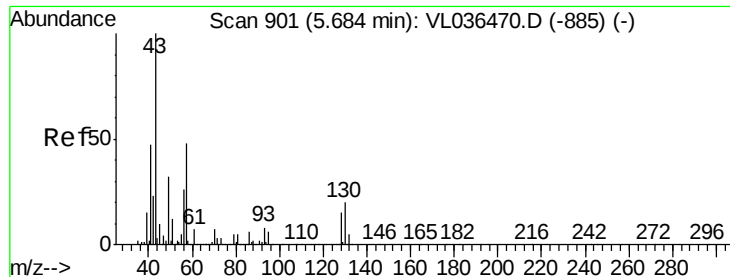
84 100

49 164.7 122.9 184.3

51 45.3 36.9 55.3

86 70.7 48.2 72.4





#25

Ethyl Acetate

Concen: 0.231 ppbv

RT: 5.68 min Scan# 899

Delta R.T. -0.01 min

Lab File: VL036757.D

Acq: 8 Apr 2021 19:18

Instrument :

MSVOA_L

ClientSampled :

SG-2DL

Tot Ion: 43 Resp: 76573

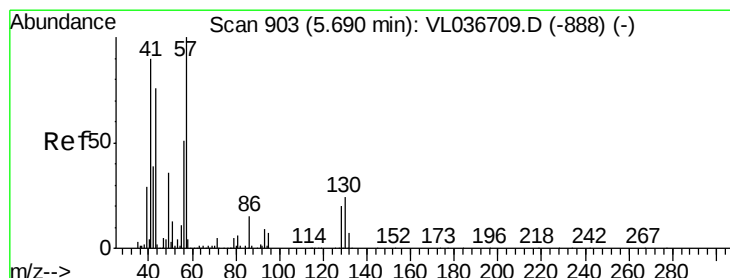
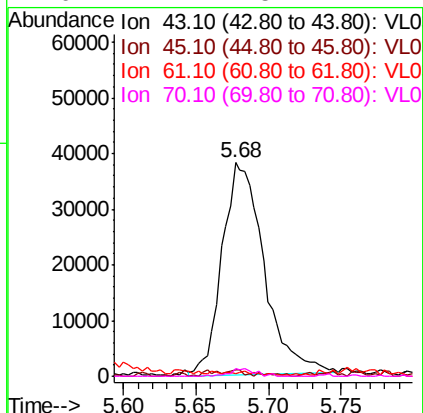
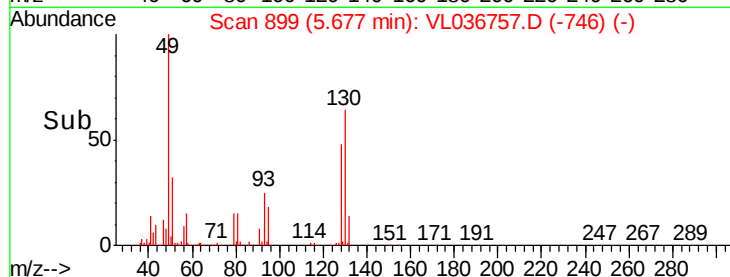
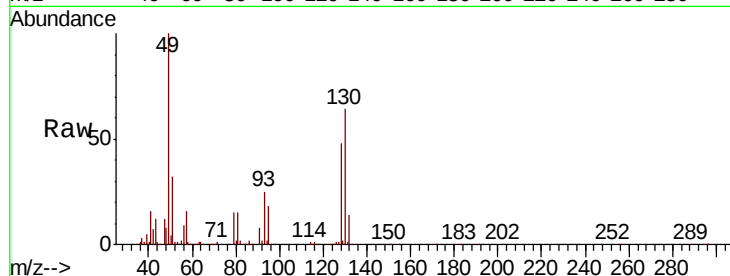
Ion Ratio Lower Upper

43 100

45 3.6 7.9 11.9#

61 4.2 7.4 11.2#

70 2.2 5.1 7.7#



#26

Hexane

Concen: 0.637 ppbv

RT: 5.68 min Scan# 900

Delta R.T. -0.01 min

Lab File: VL036757.D

Acq: 8 Apr 2021 19:18

Tgt Ion: 57 Resp: 98112

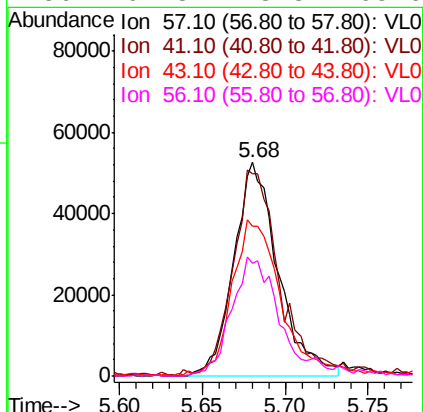
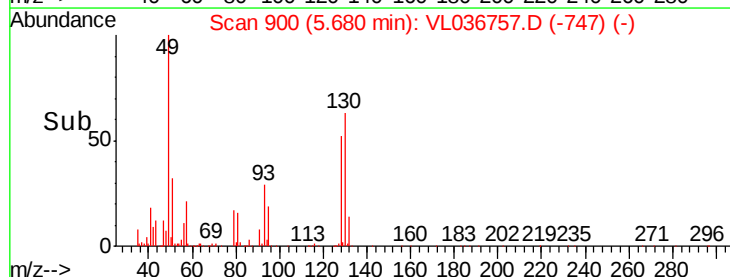
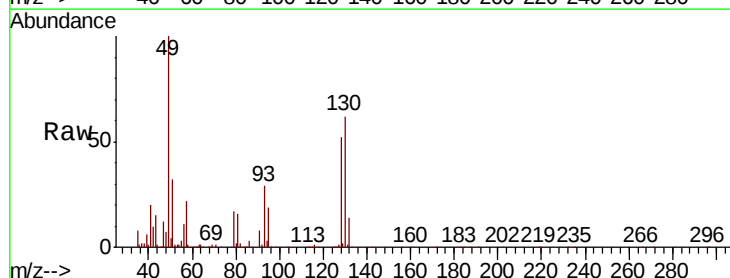
Ion Ratio Lower Upper

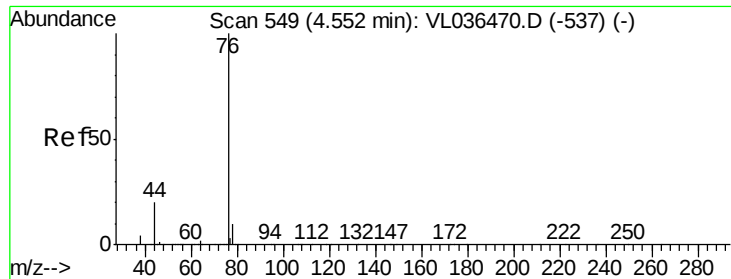
57 100

41 103.4 77.2 115.8

43 80.1 173.8 260.6#

56 62.8 43.8 65.6





#27

Carbon Disulfide

Concen: 0.101 ppbv

RT: 4.55 min Scan# 548

Delta R.T. -0.00 min

Lab File: VL036757.D

Acq: 8 Apr 2021 19:18

Instrument :

MSVOA_L

ClientSampled :

SG-2DL

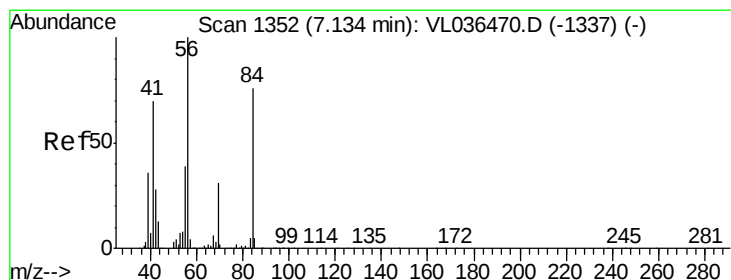
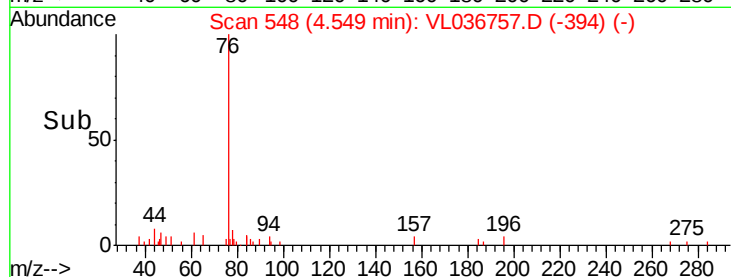
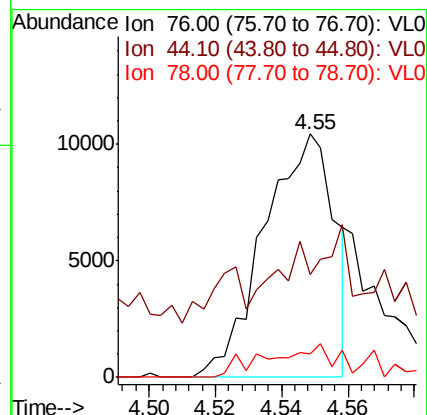
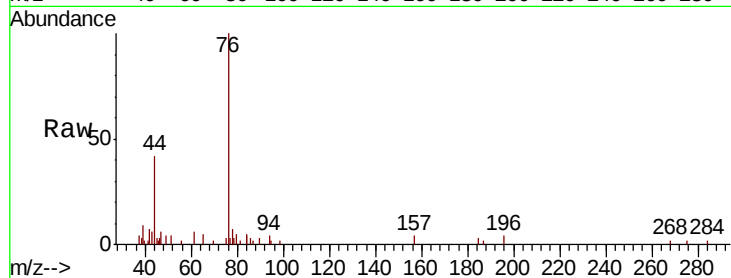
Tot Ion: 76 Resp: 15329

Ion Ratio Lower Upper

76 100

44 32.4 17.5 26.3#

78 17.8 8.6 13.0#



#30

Cyclohexane

Concen: 0.137 ppbv

RT: 7.12 min Scan# 1349

Delta R.T. -0.01 min

Lab File: VL036757.D

Acq: 8 Apr 2021 19:18

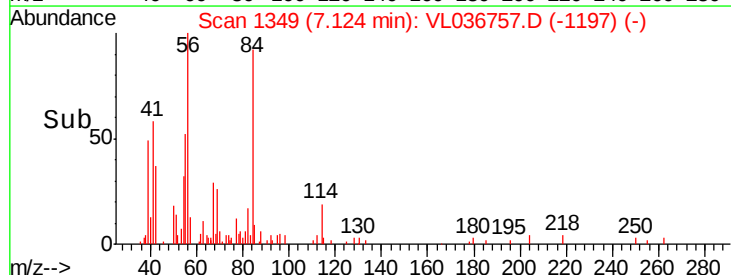
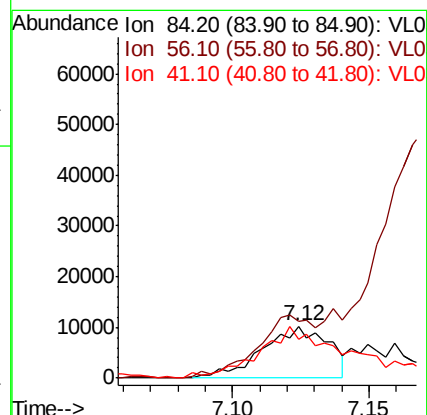
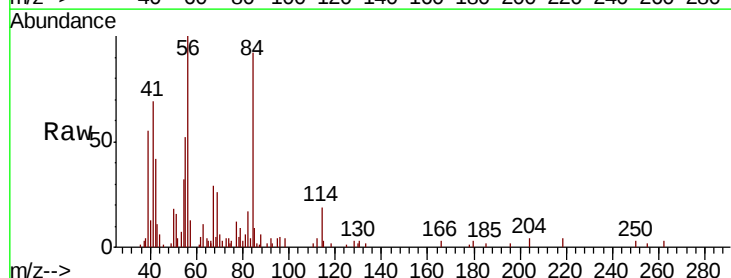
Tgt Ion: 84 Resp: 17100

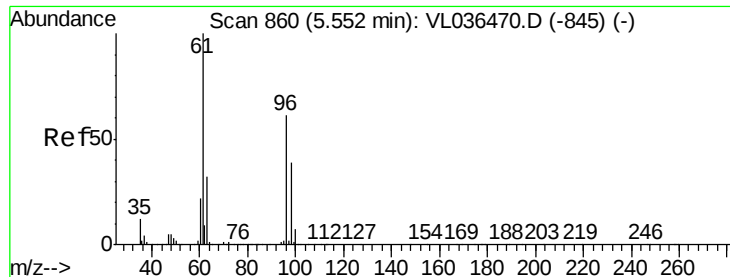
Ion Ratio Lower Upper

84 100

56 0.0 114.6 171.8#

41 137.7 75.3 112.9#



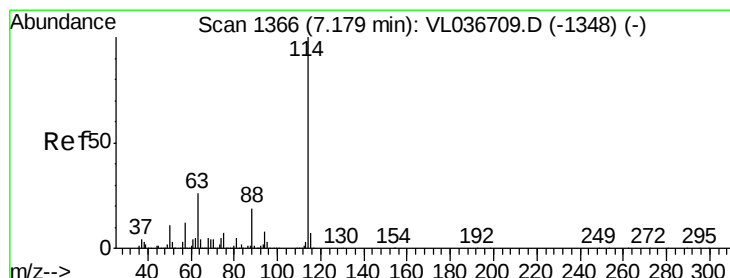
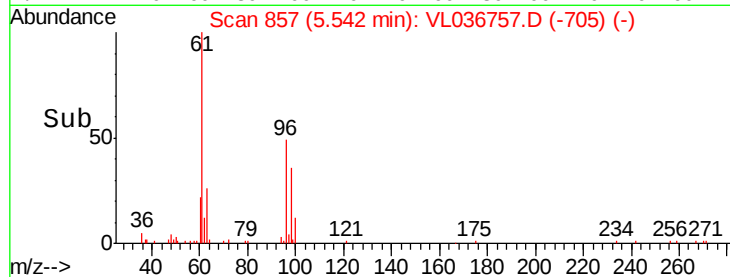
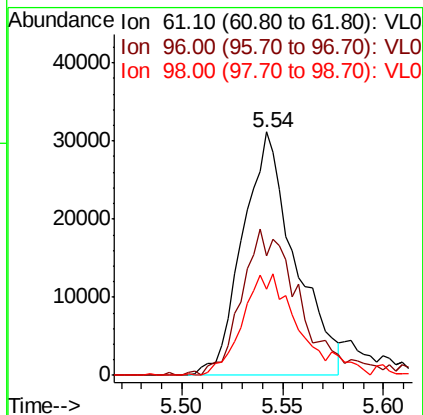
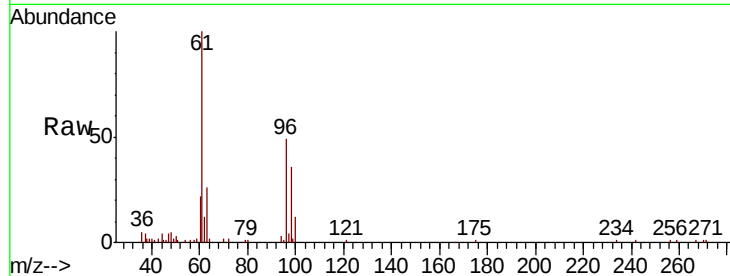


#31

cis-1,2-Dichloroethene
 Concen: 0.378 ppbv
 RT: 5.54 min Scan# 857
 Delta R.T. -0.01 min
 Lab File: VL036757.D
 Acq: 8 Apr 2021 19:18

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-2DL

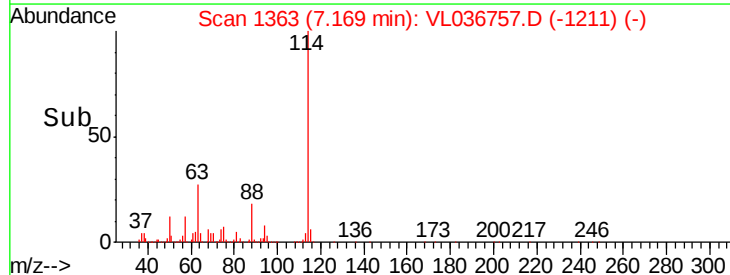
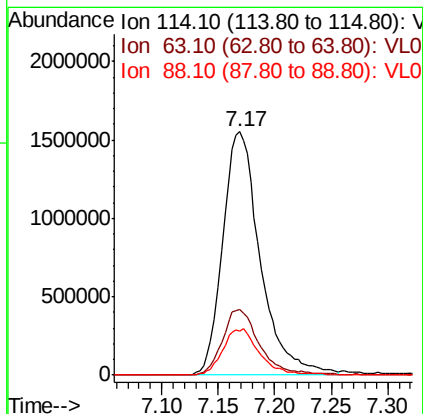
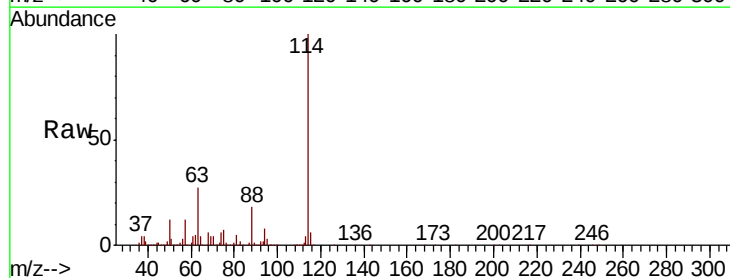
Tot Ion	61	Resp	56322
Ion Ratio	Lower	Upper	
61	100		
96	48.1	48.7	73.1#
98	35.1	31.4	47.0

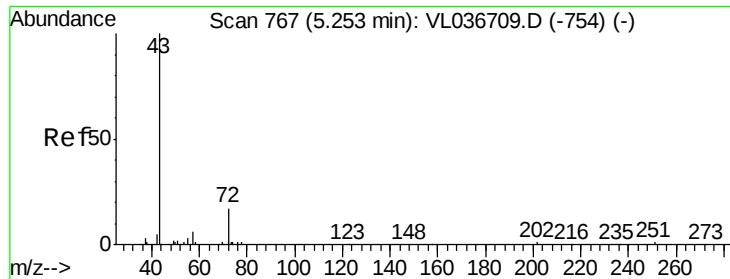


#33

1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1363
 Delta R.T. -0.01 min
 Lab File: VL036757.D
 Acq: 8 Apr 2021 19:18

Tgt Ion	114	Resp	3575579
Ion Ratio	Lower	Upper	
114	100		
63	27.2	22.4	33.6
88	18.9	15.4	23.0

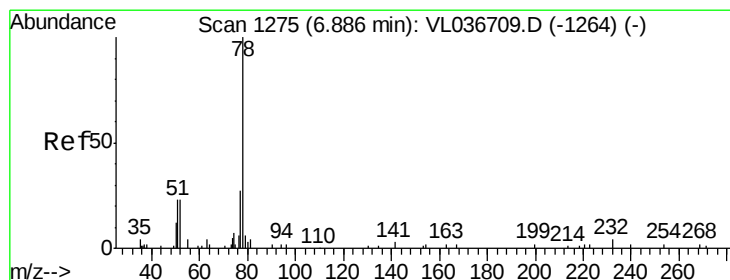
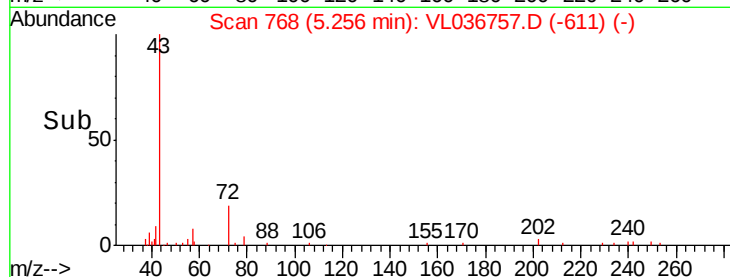
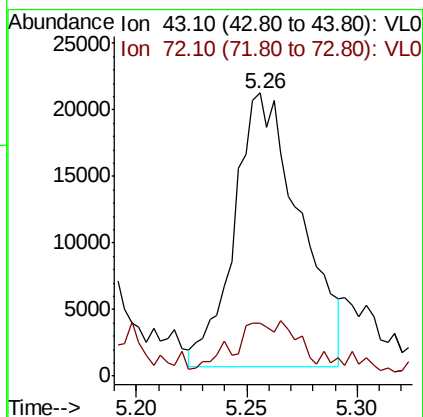
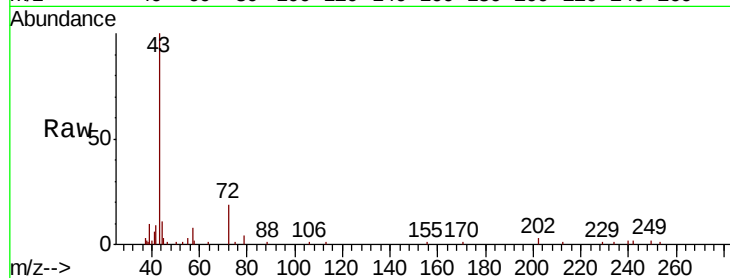




#34
2-Butanone
Concen: 0.245 ppbv
RT: 5.26 min Scan# 768
Delta R.T. 0.01 min
Lab File: VL036757.D
Acq: 8 Apr 2021 19:18

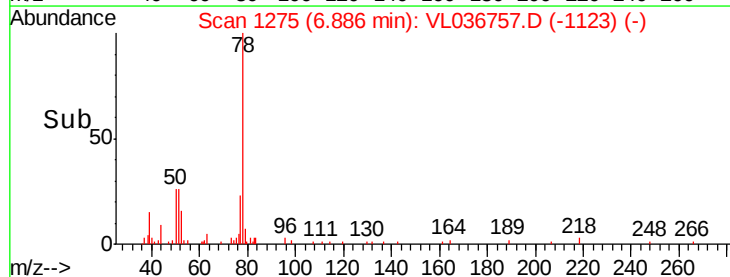
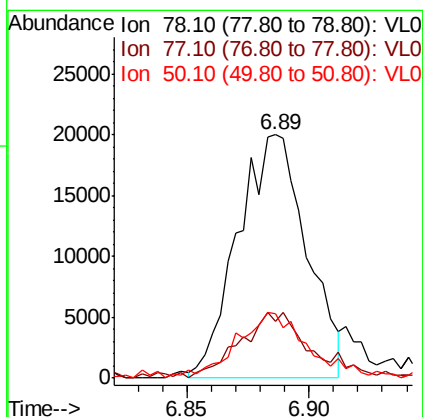
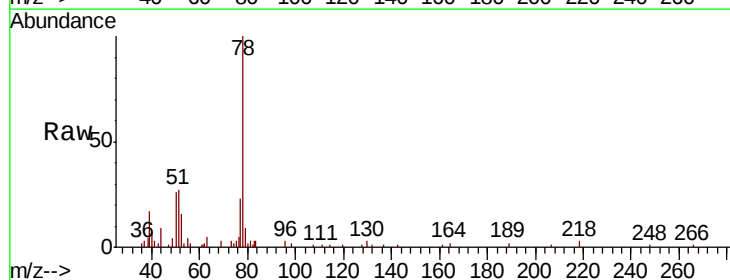
Instrument :
MSVOA_L
ClientSampleId :
SG-2DL

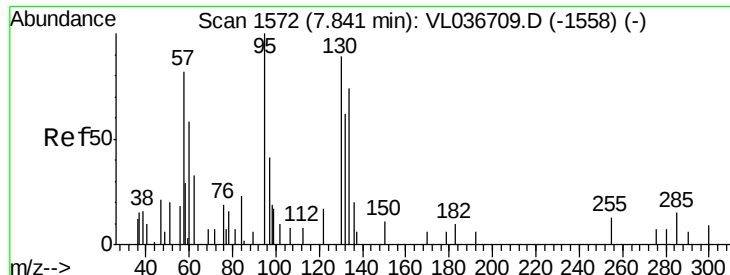
Tot Ion: 43 Resp: 42711
Ion Ratio Lower Upper
43 100
72 24.8 17.0 25.6



#36
Benzene
Concen: 0.119 ppbv
RT: 6.89 min Scan# 1275
Delta R.T. -0.01 min
Lab File: VL036757.D
Acq: 8 Apr 2021 19:18

Tgt Ion: 78 Resp: 39196
Ion Ratio Lower Upper
78 100
77 24.0 18.0 27.0
50 23.5 16.5 24.7





#38

Trichloroethene

Concen: 0.646 ppbv

RT: 7.83 min Scan# 1568

Delta R.T. -0.01 min

Lab File: VL036757.D

Acq: 8 Apr 2021 19:18

Instrument :

MSVOA_L

ClientSampleId :

SG-2DL

Tot Ion:130 Resp: 82929

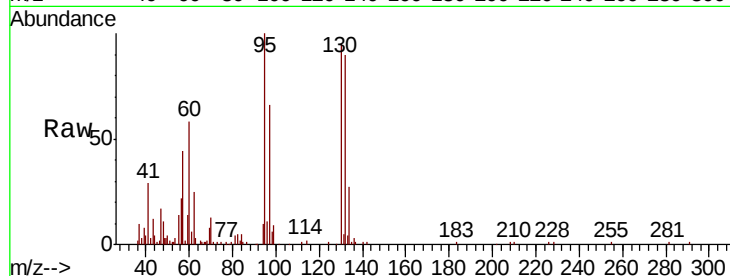
Ion Ratio Lower Upper

130 100

95 102.8 95.7 143.5

132 94.4 76.2 114.4

97 67.1 61.8 92.6

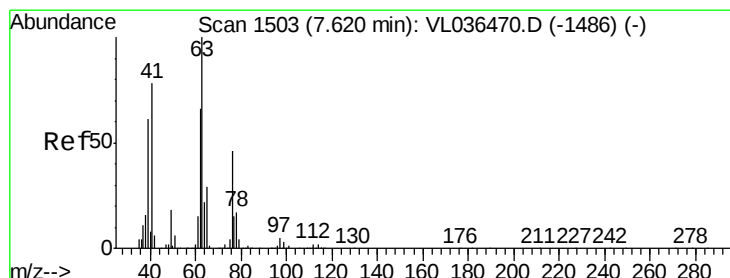
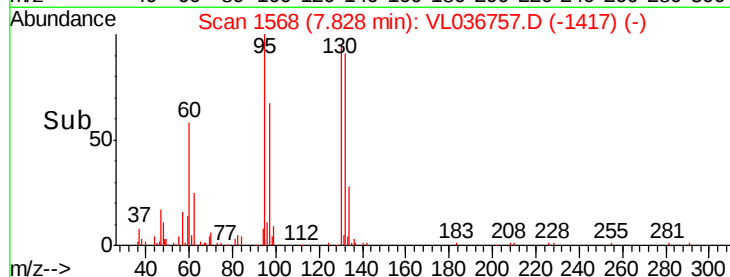
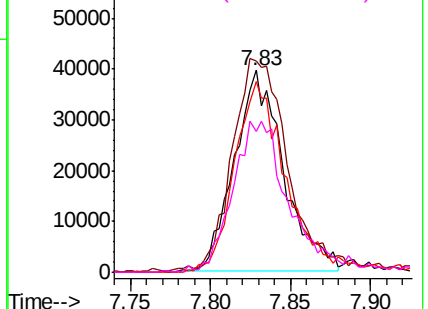


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#39

1,2-Dichloropropane

Concen: 7.050 ppbv

RT: 7.17 min Scan# 1363

Delta R.T. -0.45 min

Lab File: VL036757.D

Acq: 8 Apr 2021 19:18

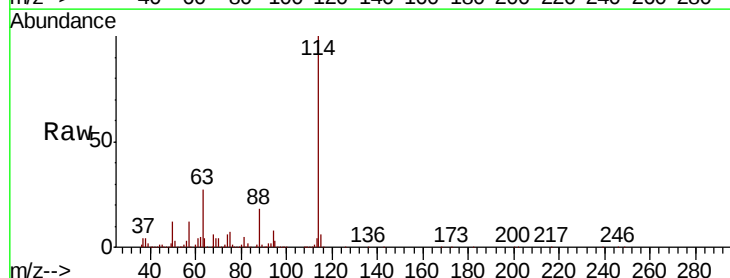
Tgt Ion: 63 Resp: 943049

Ion Ratio Lower Upper

63 100

41 0.0 62.4 93.6#

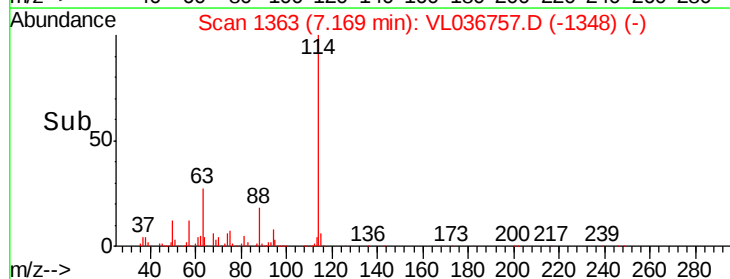
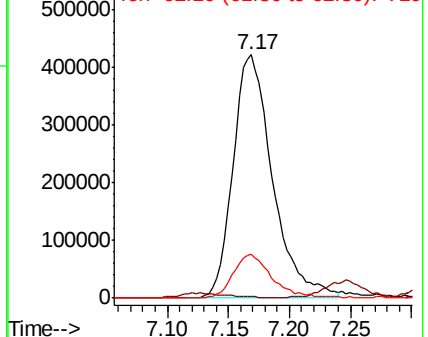
62 18.0 52.8 79.2#

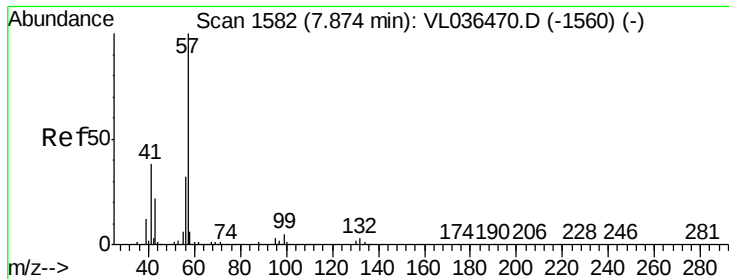


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#44

2,2,4-Trimethylpentane

Concen: 0.915 ppbv

RT: 7.86 min Scan# 1579

Delta R.T. -0.01 min

Lab File: VL036757.D

Acq: 8 Apr 2021 19:18

Instrument :

MSVOA_L

ClientSampleId :

SG-2DL

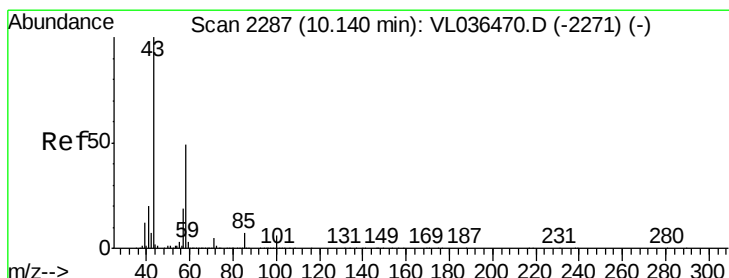
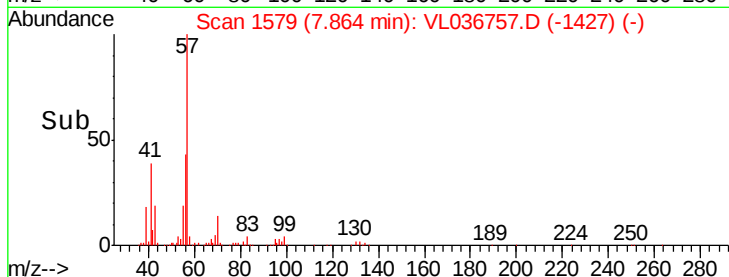
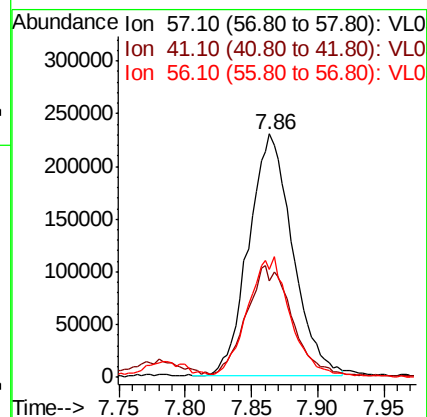
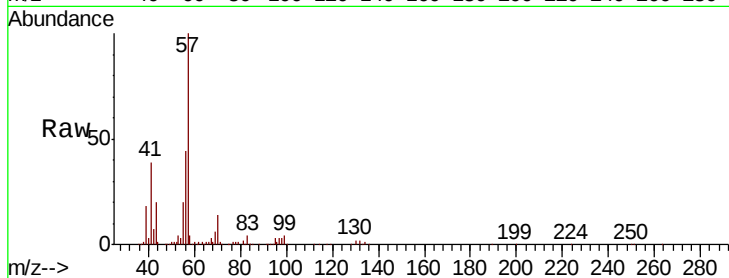
Tot Ion: 57 Resp: 530793

Ion Ratio Lower Upper

57 100

41 48.4 28.8 43.2#

56 49.9 26.1 39.1#



#51

2-Hexanone

Concen: 1.037 ppbv

RT: 10.10 min Scan# 2275

Delta R.T. -0.04 min

Lab File: VL036757.D

Acq: 8 Apr 2021 19:18

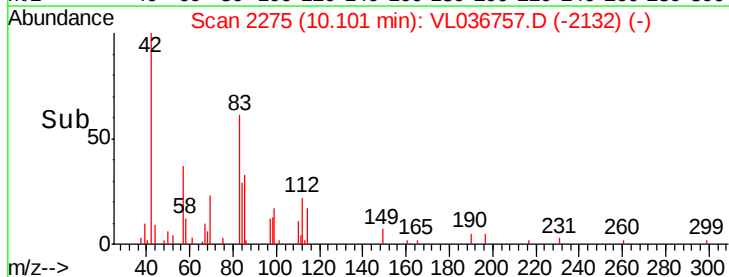
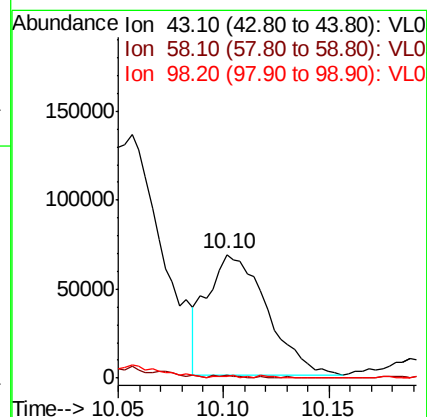
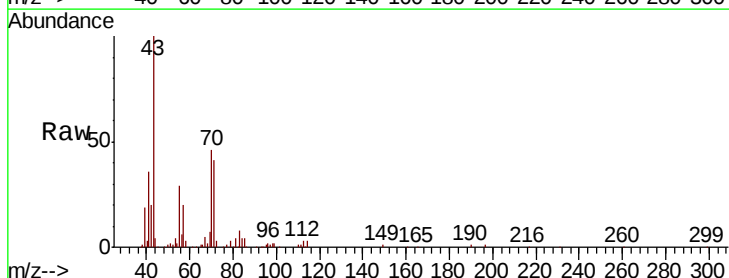
Tgt Ion: 43 Resp: 132211

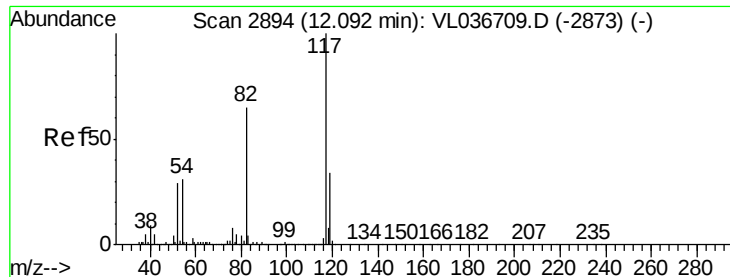
Ion Ratio Lower Upper

43 100

58 0.0 37.7 56.5#

98 1.1 0.2 0.2#

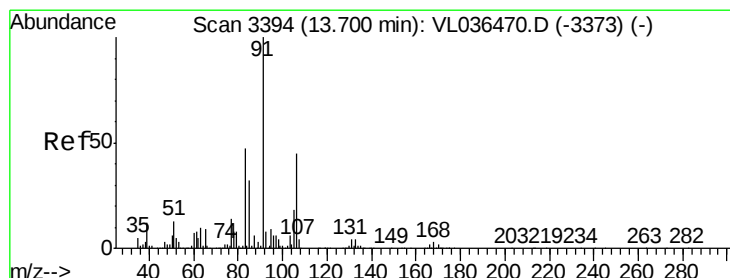
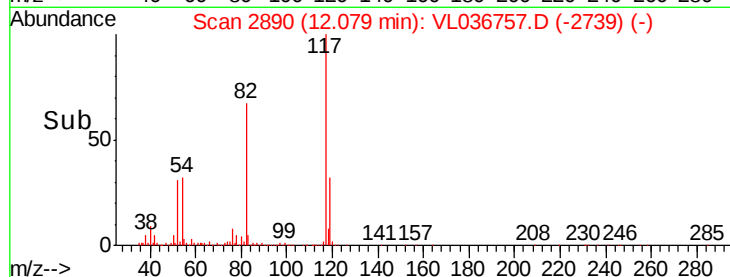
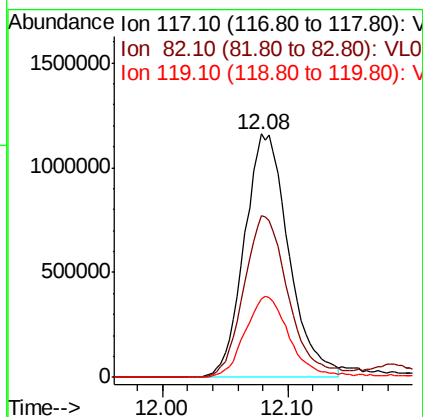
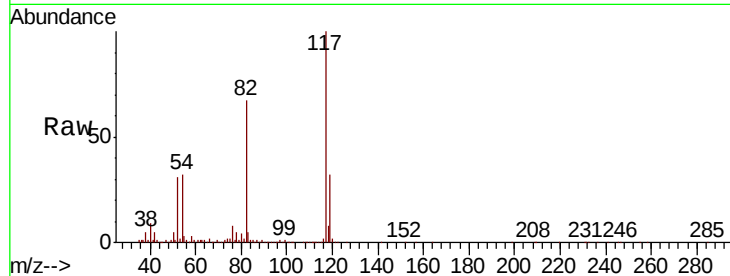




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min Scan# 2890
Delta R.T. -0.01 min
Lab File: VL036757.D
Acq: 8 Apr 2021 19:18

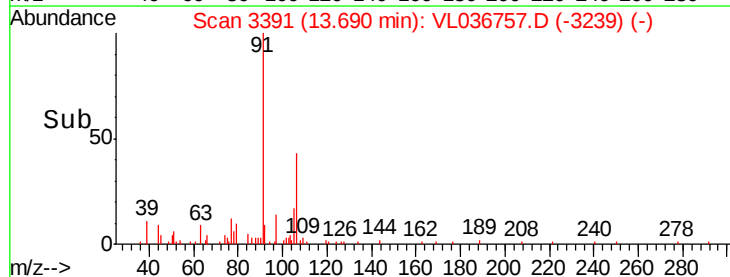
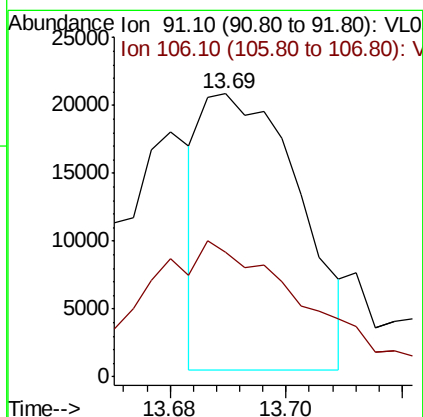
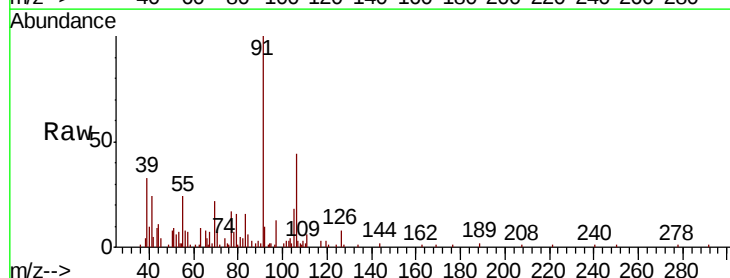
Instrument :
MSVOA_L
ClientSampleId :
SG-2DL

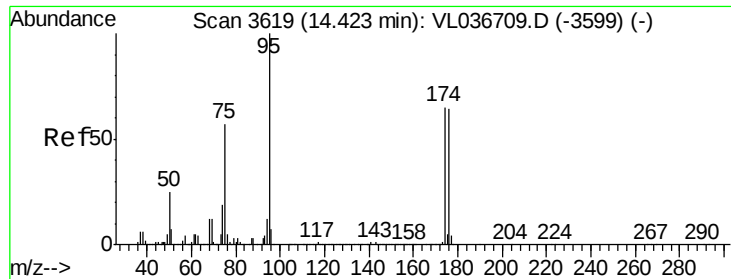
Tot Ion:117 Resp: 2863272
Ion Ratio Lower Upper
117 100
82 66.4 57.4 86.0
119 34.2 47.4 71.0#



#60
o-Xylene
Concen: 0.068 ppbv
RT: 13.69 min Scan# 3391
Delta R.T. -0.01 min
Lab File: VL036757.D
Acq: 8 Apr 2021 19:18

Tgt Ion: 91 Resp: 23756
Ion Ratio Lower Upper
91 100
106 95.8 22.3 66.9#





#68

1-Bromo-4-Fluorobenzene

Concen: 7.704 ppbv

RT: 14.41 min Scan# 3616

Delta R.T. -0.01 min

Lab File: VL036757.D

Acq: 8 Apr 2021 19:18

Instrument :

MSVOA_L

ClientSampleId :

SG-2DL

Tot Ion: 95 Resp: 1758106

Ion Ratio Lower Upper

95 100

174 69.6 51.0 76.6

175 5.3 3.9 5.9

