

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090821\
 Data File : VL037586.D
 Acq On : 9 Sep 2021 00:36
 Operator : SY/AP
 Sample : M3663-04DL 40X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-1DL

Quant Time: Sep 09 09:15:11 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Aug 17 02:13:47 2021
 QLast Update : Tue Aug 17 02:13:47 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1618738	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.19	114	4746123	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.10	117	4231526	10.00	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	2967991	9.87	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.70%

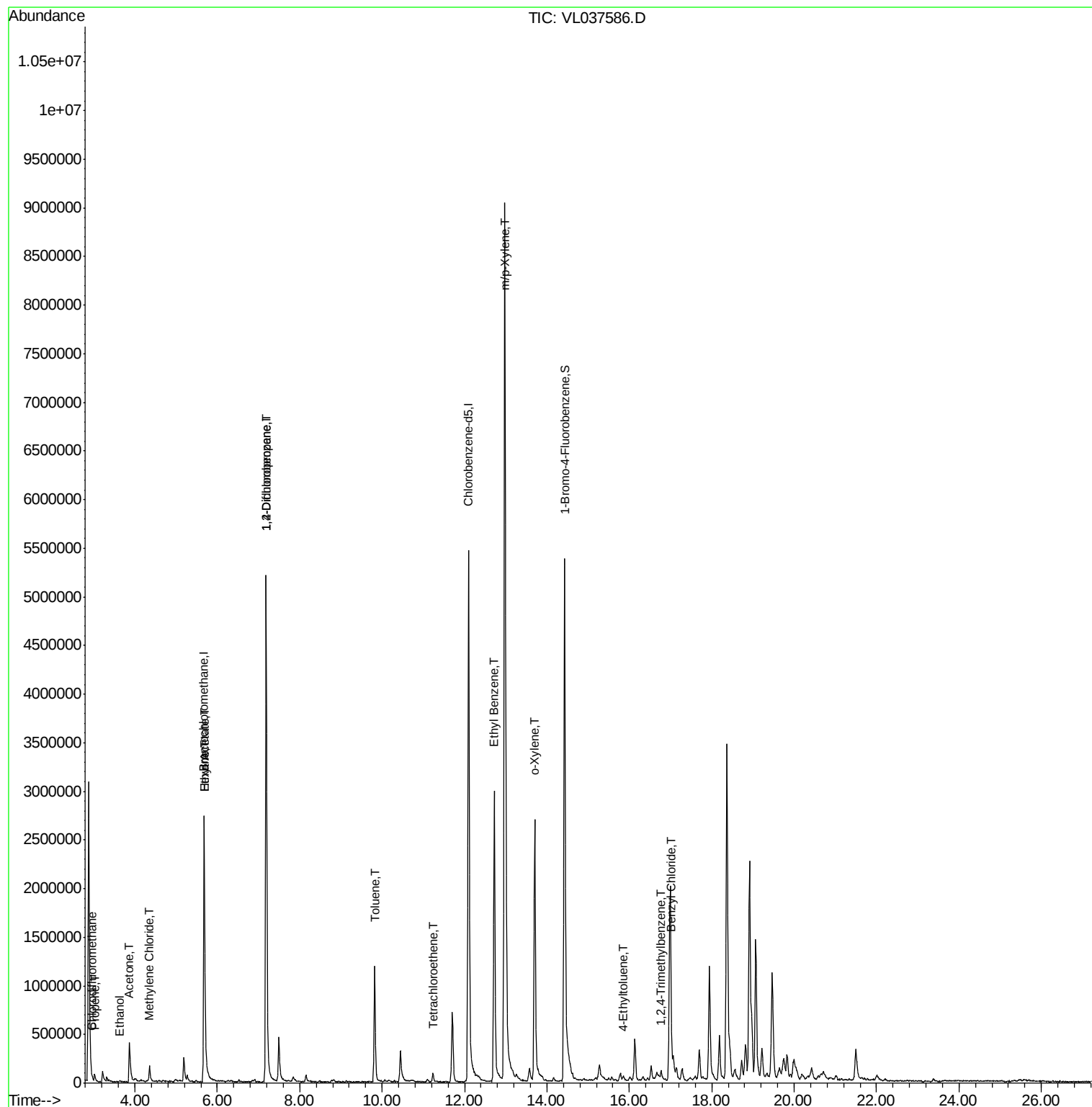
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.97	51	20863	0.067	ppbv #	63
9) Propene	3.02	41	19029	0.172	ppbv #	64
13) Ethanol	3.62	45	1724	0.160	ppbv #	39
15) Acetone	3.86	43	551761	3.349	ppbv	90
20) Methylene Chloride	4.36	84	62031	0.752	ppbv	92
25) Ethyl Acetate	5.69	43	24095	0.058	ppbv #	75
26) Hexane	5.69	57	44040	0.215	ppbv #	45
39) 1,2-Dichloropropane	7.18	63	1109912	7.240	ppbv #	27
52) Tetrachloroethene	11.24	164	8960	0.055	ppbv #	78
53) Toluene	9.82	91	1034092	2.270	ppbv	100
58) Ethyl Benzene	12.73	91	3001639	5.112	ppbv	97
59) m/p-Xylene	12.98	91	8545781	16.787	ppbv	95
60) o-Xylene	13.70	91	2378651	5.006	ppbv	100
66) Benzyl Chloride	17.02	91	875	0.032	ppbv #	63
72) 4-Ethyltoluene	15.85	105	18187	0.032	ppbv #	44
74) 1,2,4-Trimethylbenzene	16.79	105	23307	0.042	ppbv #	51

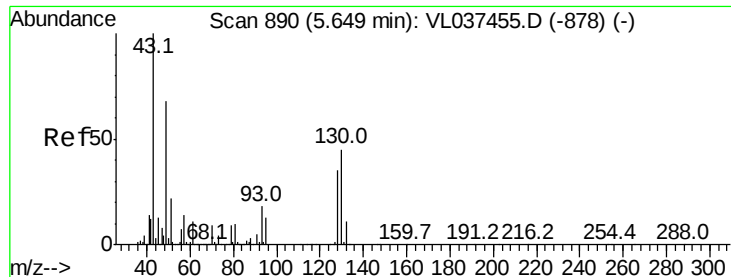
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Aug 17 02:13:47 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 899

Delta R.T. 0.03 min

Lab File: VL037586.D

Acq: 9 Sep 2021 00:36

Instrument :

MSVOA_L

ClientSampled :

SV-1DL

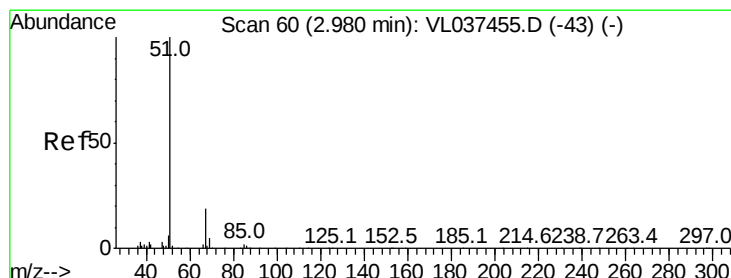
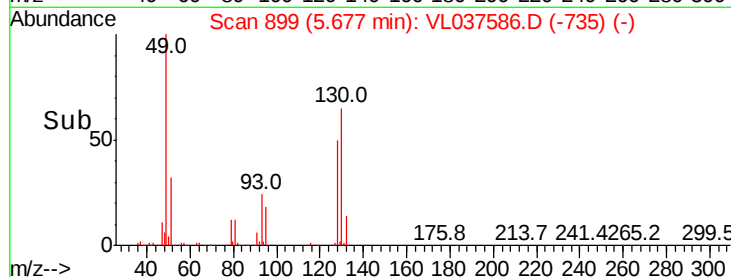
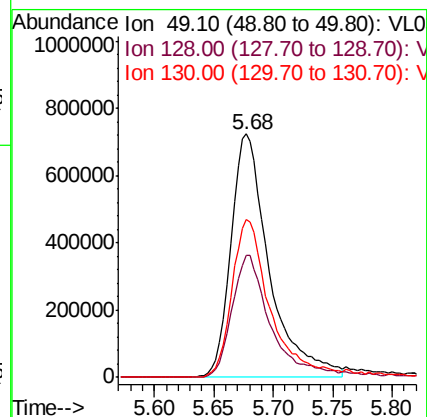
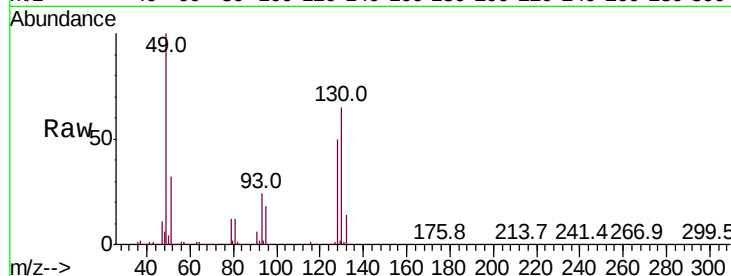
Tot Ion: 49 Resp: 1618738

Ion Ratio Lower Upper

49 100

128 52.9 27.5 82.4

130 68.2 34.0 101.8



#3

Chlorodifluoromethane

Concen: 0.067 ppbv

RT: 2.97 min Scan# 57

Delta R.T. -0.01 min

Lab File: VL037586.D

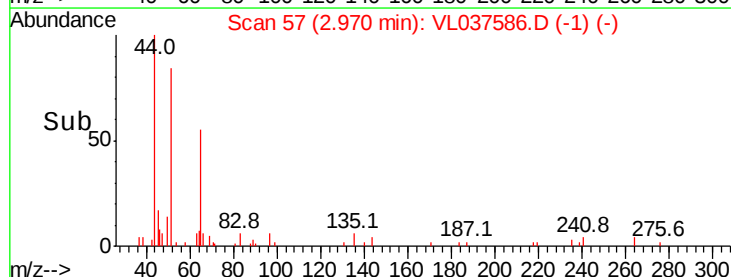
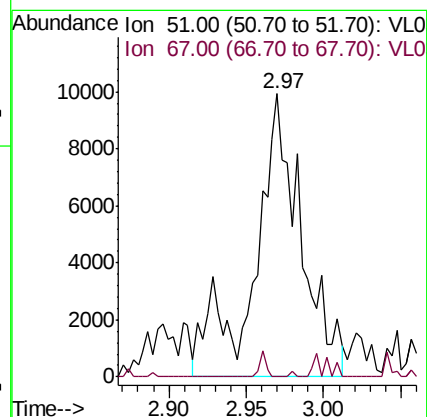
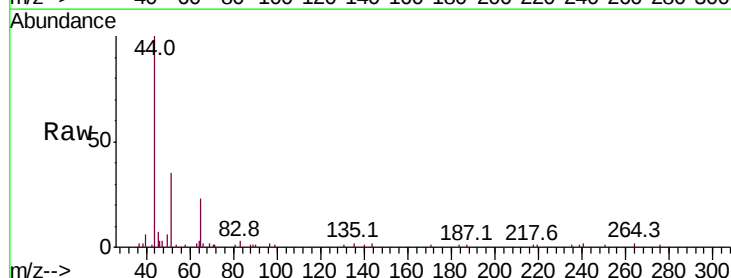
Acq: 9 Sep 2021 00:36

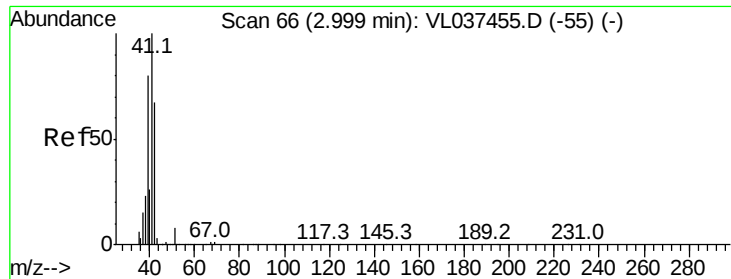
Tgt Ion: 51 Resp: 20863

Ion Ratio Lower Upper

51 100

67 1.2 14.2 21.2#





#9

Propene

Concen: 0.172 ppbv

RT: 3.02 min Scan# 73

Delta R.T. 0.02 min

Lab File: VL037586.D

Acq: 9 Sep 2021 00:36

Instrument :

MSVOA_L

ClientSampled :

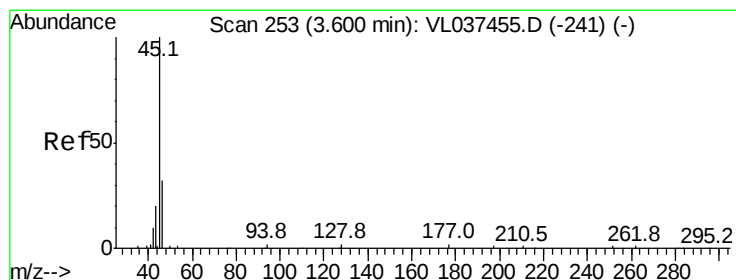
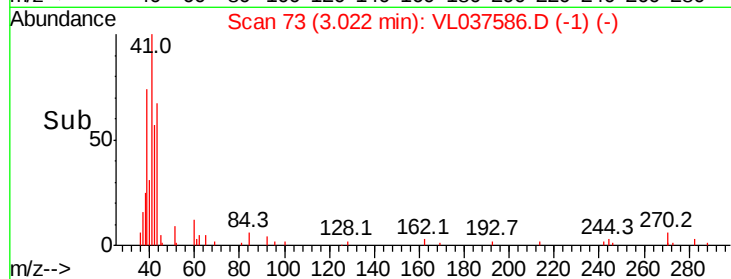
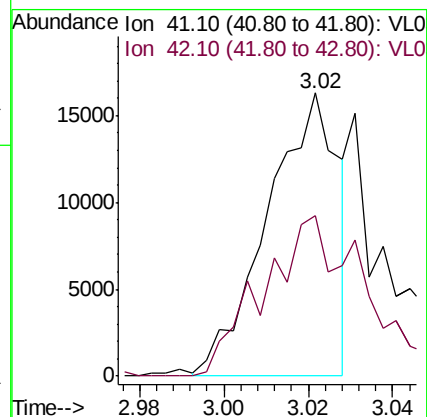
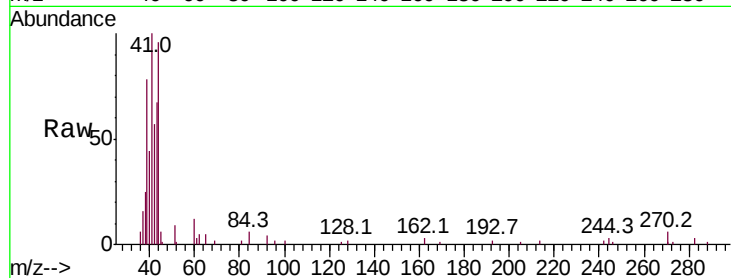
SV-1DL

Tot Ion: 41 Resp: 19029

Ion Ratio Lower Upper

41 100

42 96.3 53.7 80.5#



#13

Ethanol

Concen: 0.160 ppbv

RT: 3.62 min Scan# 258

Delta R.T. 0.02 min

Lab File: VL037586.D

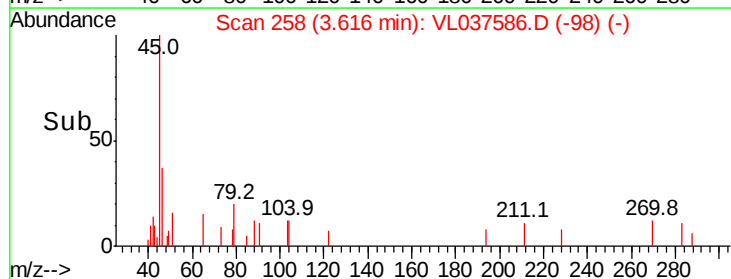
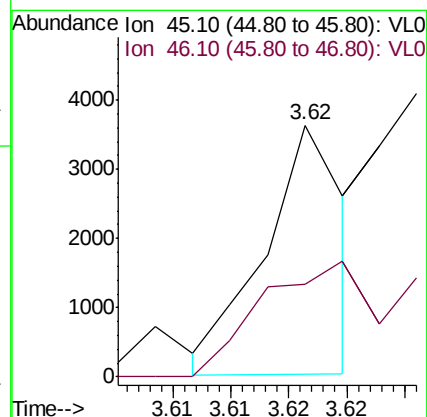
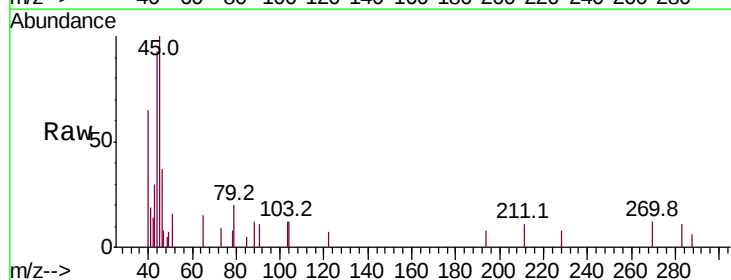
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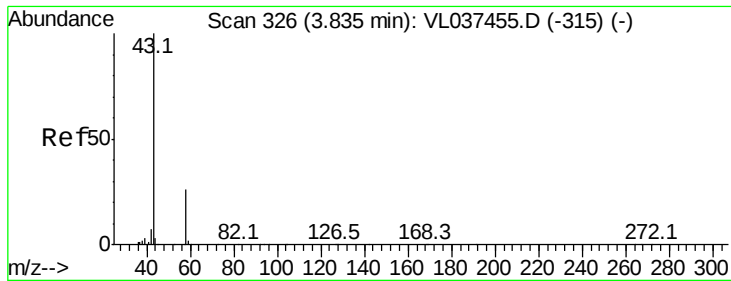
Tgt Ion: 45 Resp: 1724

Ion Ratio Lower Upper

45 100

46 0.0 14.1 56.5#

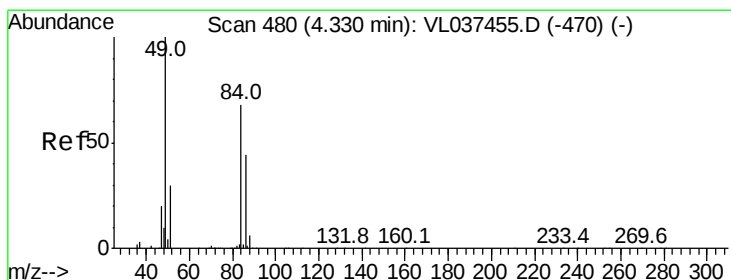
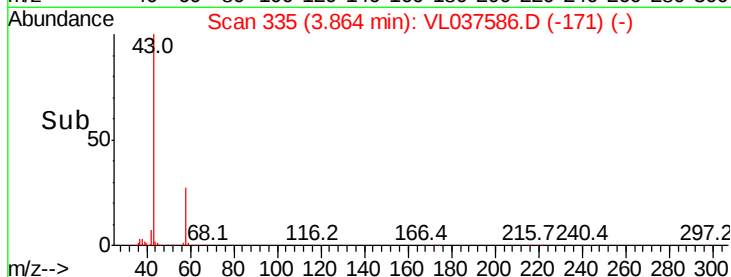
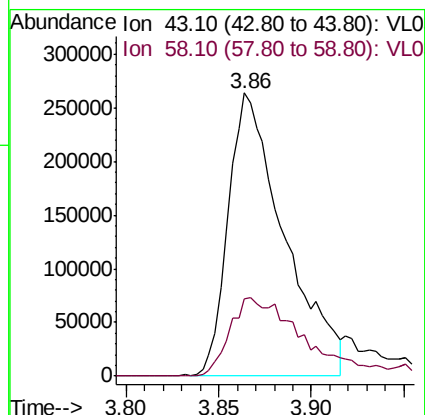
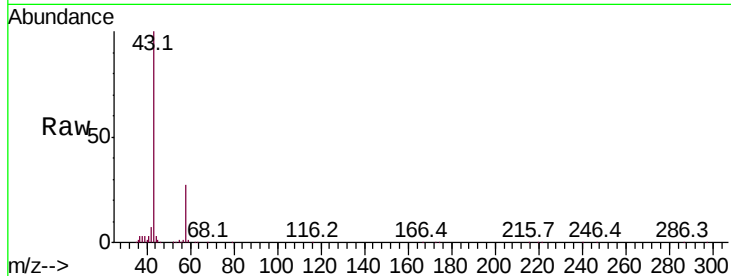




#15
Acetone
Concen: 3.349 ppbv
RT: 3.86 min Scan# 335
Delta R.T. 0.03 min
Lab File: VL037586.D
Acq: 9 Sep 2021 00:36

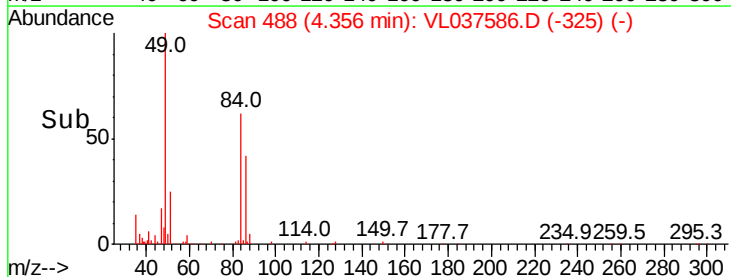
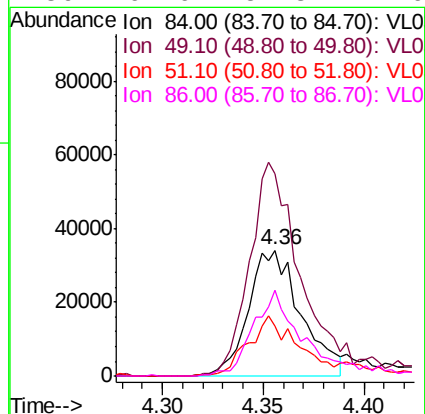
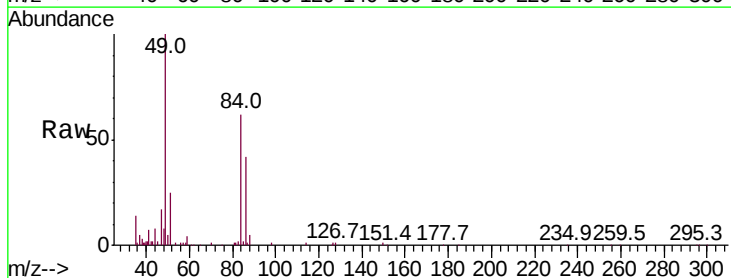
Instrument :
MSVOA_L
ClientSampleId :
SV-1DL

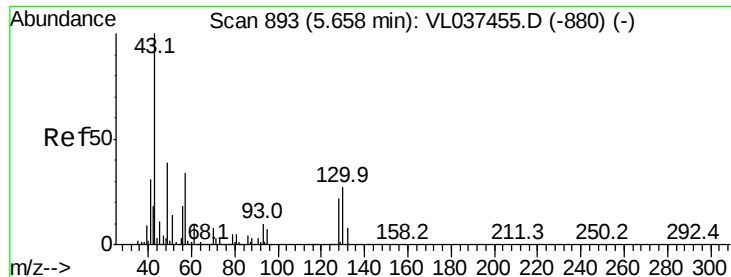
Tot Ion: 43 Resp: 551761
Ion Ratio Lower Upper
43 100
58 36.2 24.8 37.2



#20
Methylene Chloride
Concen: 0.752 ppbv
RT: 4.36 min Scan# 488
Delta R.T. 0.03 min
Lab File: VL037586.D
Acq: 9 Sep 2021 00:36

Tgt Ion: 84 Resp: 62031
Ion Ratio Lower Upper
84 100
49 160.5 118.2 177.2
51 39.4 36.6 55.0
86 67.6 51.8 77.6

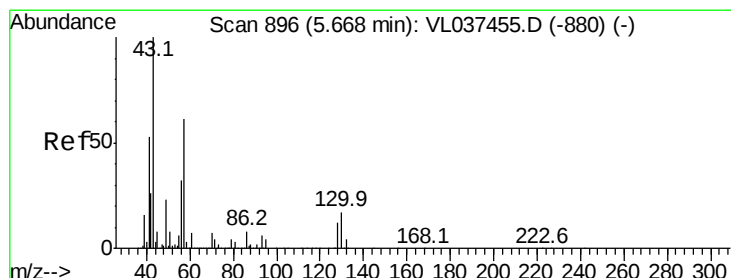
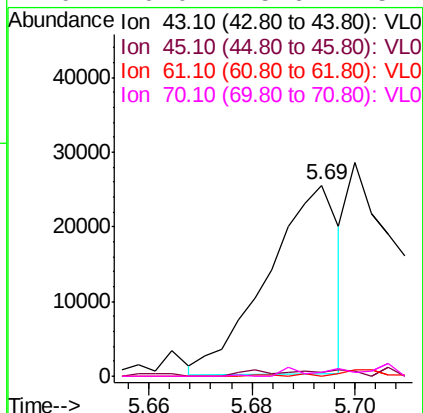
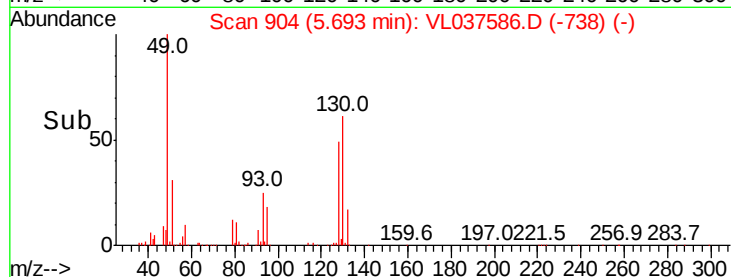
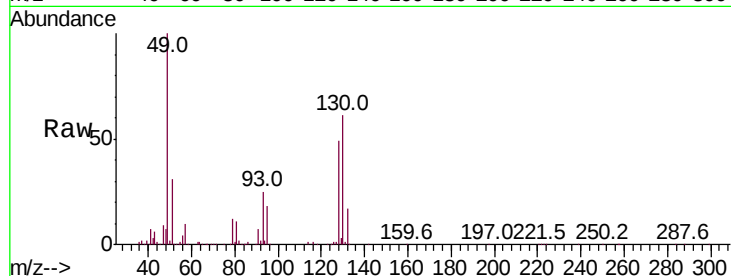




#25
Ethyl Acetate
Concen: 0.058 ppbv
RT: 5.69 min Scan# 904
Delta R.T. 0.04 min
Lab File: VL037586.D
Acq: 9 Sep 2021 00:36

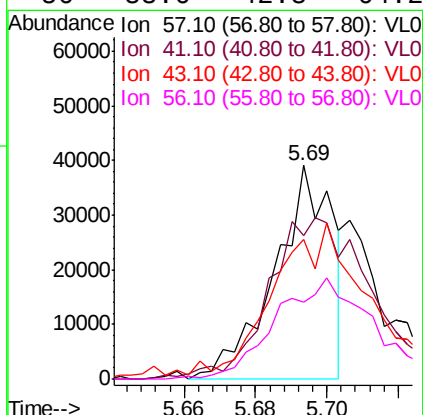
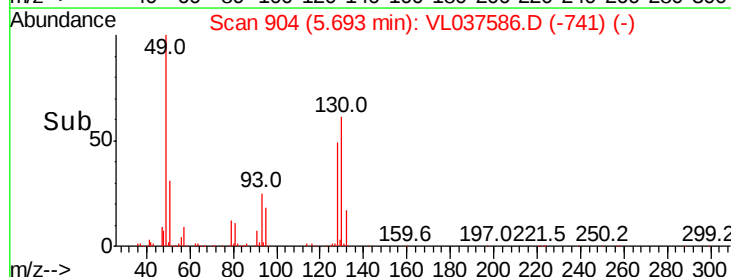
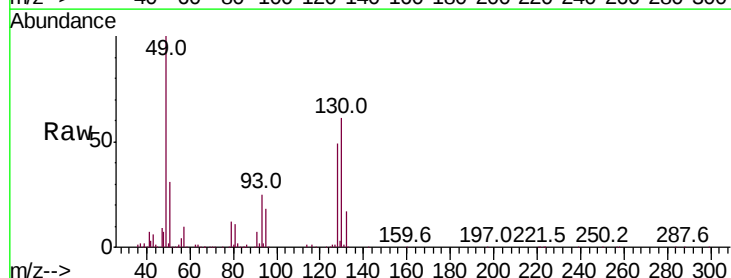
Instrument :
MSVOA_L
ClientSampled :
SV-1DL

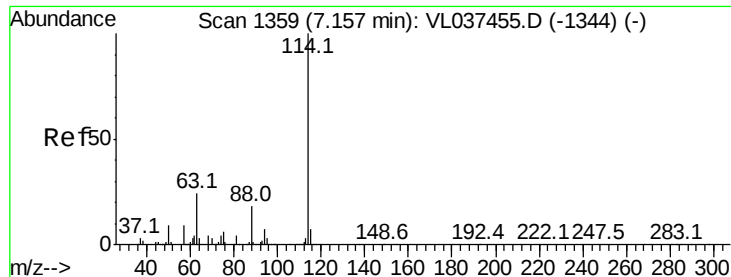
Tot Ion:	43	Resp:	24095
Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.0	12.0#
61	0.0	8.0	12.0#
70	0.0	5.6	8.4#



#26
Hexane
Concen: 0.215 ppbv
RT: 5.69 min Scan# 904
Delta R.T. 0.03 min
Lab File: VL037586.D
Acq: 9 Sep 2021 00:36

Tgt Ion:	57	Resp:	44040
Ion	Ratio	Lower	Upper
57	100		
41	146.5	72.3	108.5#
43	127.7	172.3	258.5#
56	88.6	42.8	64.2#

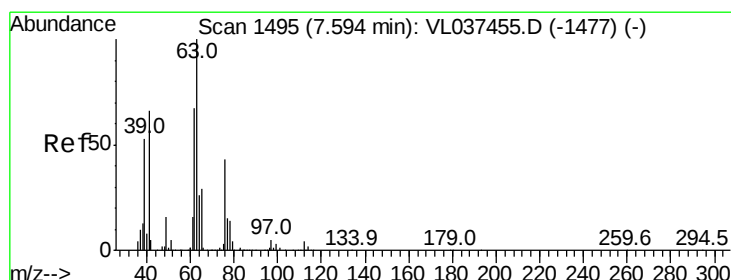
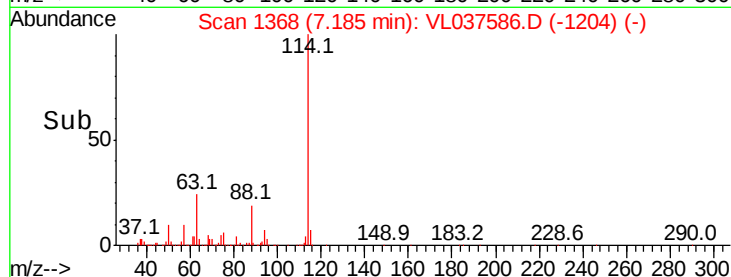
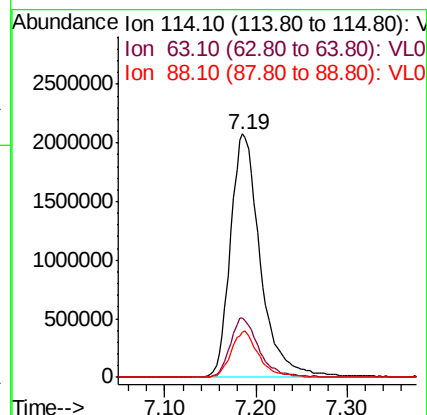
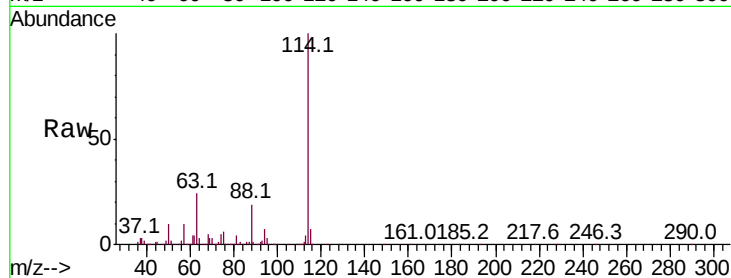




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1368
 Delta R.T. 0.03 min
 Lab File: VL037586.D
 Acq: 9 Sep 2021 00:36

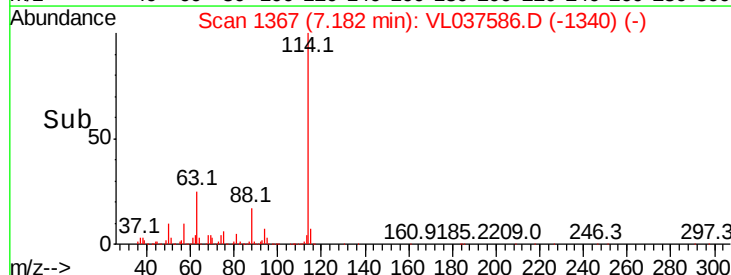
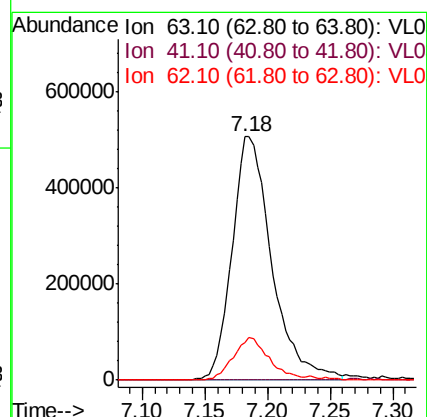
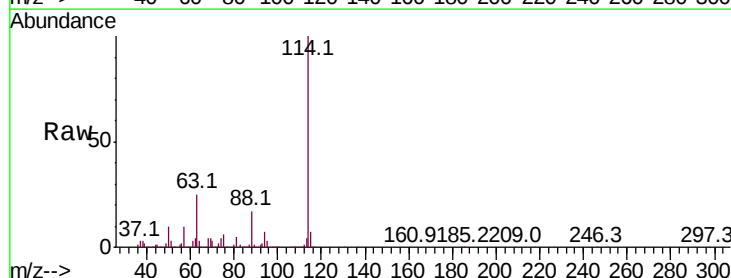
Instrument :
 MSVOA_L
 ClientSampleId :
 SV-1DL

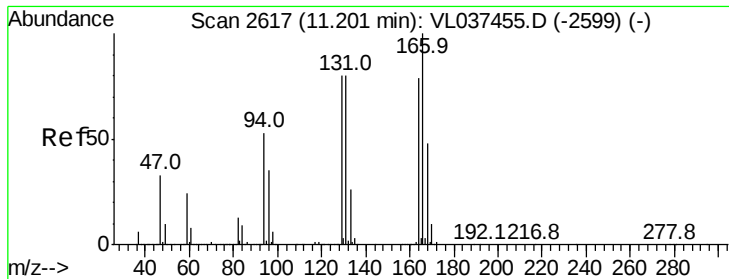
Tot Ion:114 Resp: 4746123
 Ion Ratio Lower Upper
 114 100
 63 23.9 19.3 28.9
 88 17.9 14.2 21.4



#39
 1,2-Dichloropropane
 Concen: 7.240 ppbv
 RT: 7.18 min Scan# 1367
 Delta R.T. -0.41 min
 Lab File: VL037586.D
 Acq: 9 Sep 2021 00:36

Tgt Ion: 63 Resp: 1109912
 Ion Ratio Lower Upper
 63 100
 41 0.0 52.4 78.6#
 62 15.3 53.6 80.4#





#52

Tetrachloroethene

Concen: 0.055 ppbv

RT: 11.24 min Scan# 2630

Delta R.T. 0.04 min

Lab File: VL037586.D

Acq: 9 Sep 2021 00:36

Instrument :

MSVOA_L

ClientSampleId :

SV-1DL

Tot Ion:164 Resp: 8960

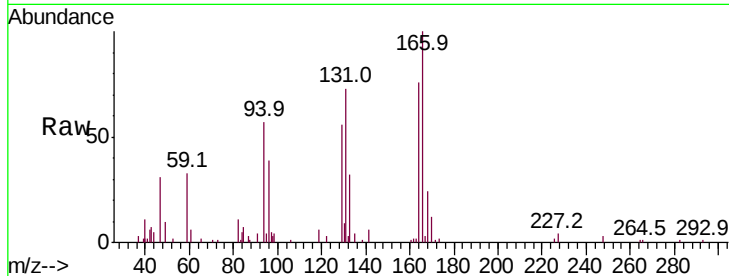
Ion Ratio Lower Upper

164 100

166 146.5 100.7 151.1

129 90.5 80.9 121.3

131 61.8 80.2 120.4#

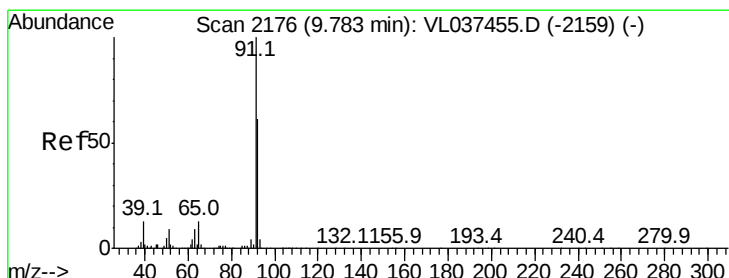
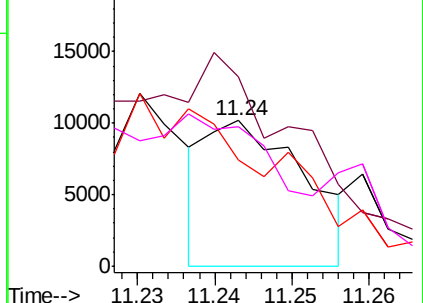
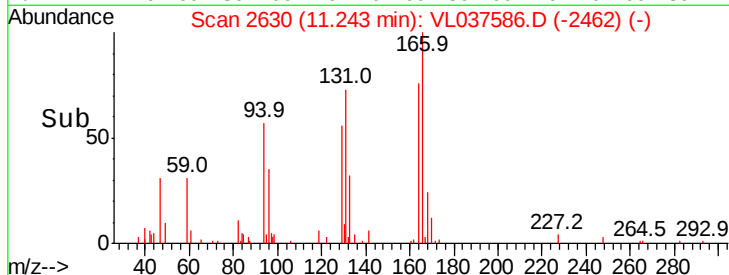


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 2.270 ppbv

RT: 9.82 min Scan# 2187

Delta R.T. 0.04 min

Lab File: VL037586.D

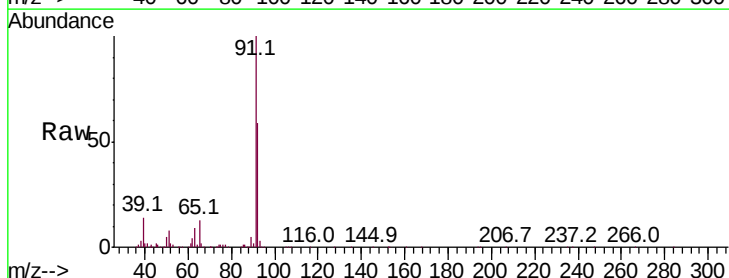
Acq: 9 Sep 2021 00:36

Tgt Ion: 91 Resp: 1034092

Ion Ratio Lower Upper

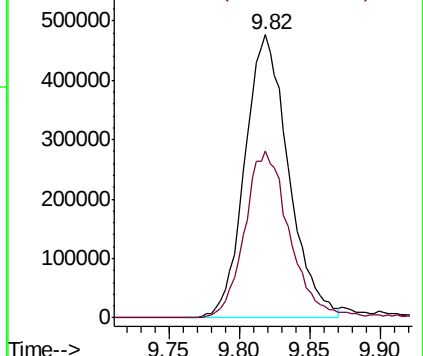
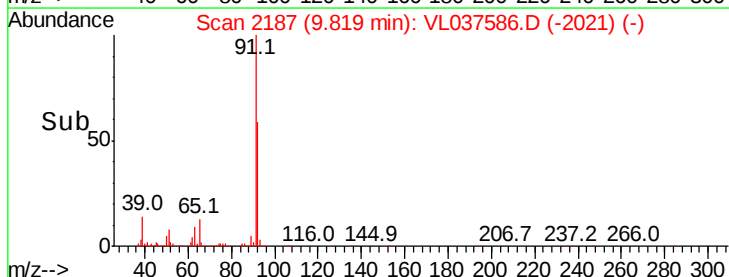
91 100

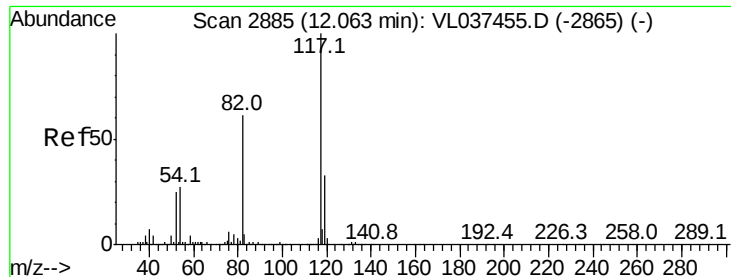
92 61.1 48.8 73.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

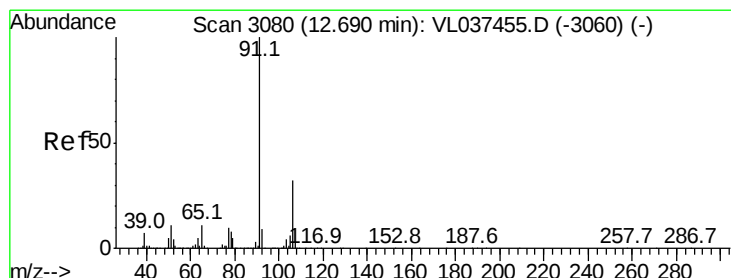
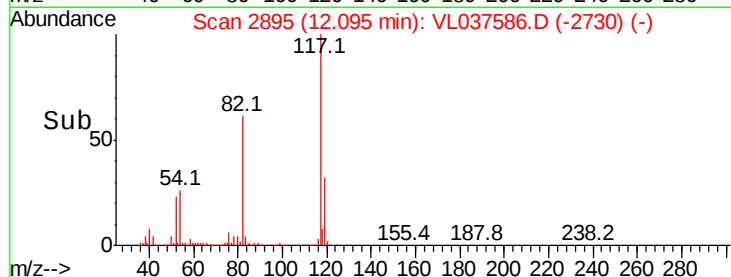
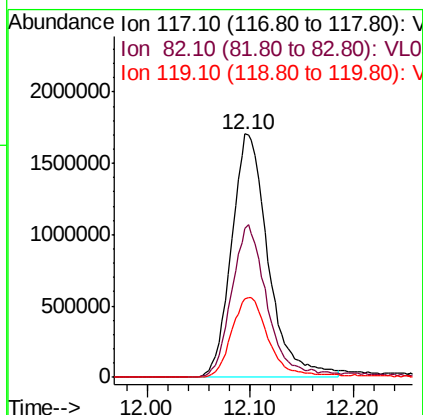
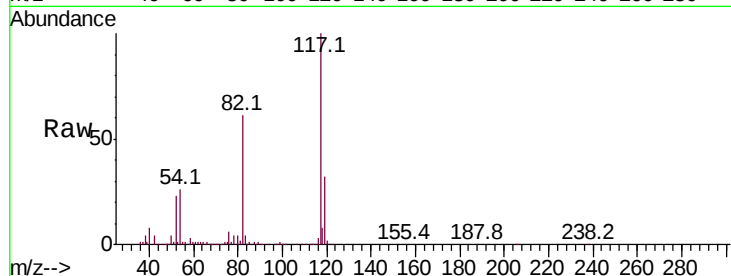




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2895
Delta R.T. 0.03 min
Lab File: VL037586.D
Acq: 9 Sep 2021 00:36

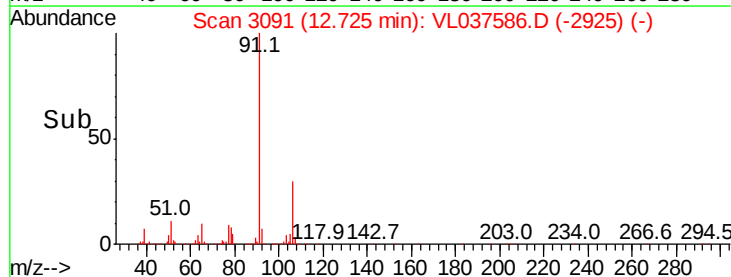
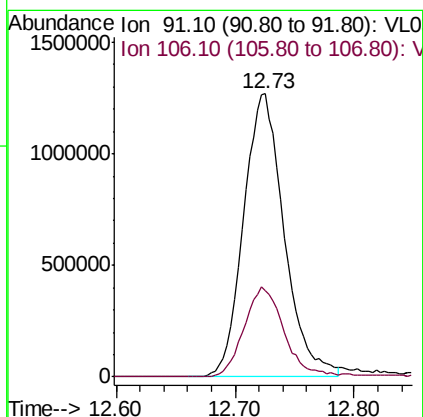
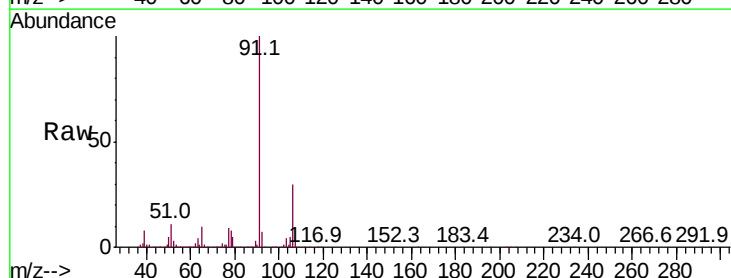
Instrument :
MSVOA_L
ClientSampled :
SV-1DL

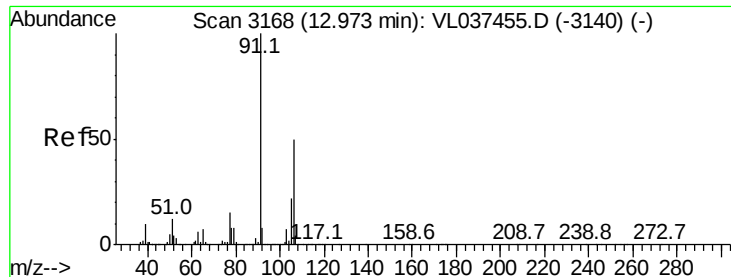
Tot Ion:117 Resp: 4231526
Ion Ratio Lower Upper
117 100
82 63.1 52.9 79.3
119 34.1 24.8 37.2



#58
Ethyl Benzene
Concen: 5.112 ppbv
RT: 12.73 min Scan# 3091
Delta R.T. 0.04 min
Lab File: VL037586.D
Acq: 9 Sep 2021 00:36

Tgt Ion: 91 Resp: 3001639
Ion Ratio Lower Upper
91 100
106 30.3 25.7 38.5

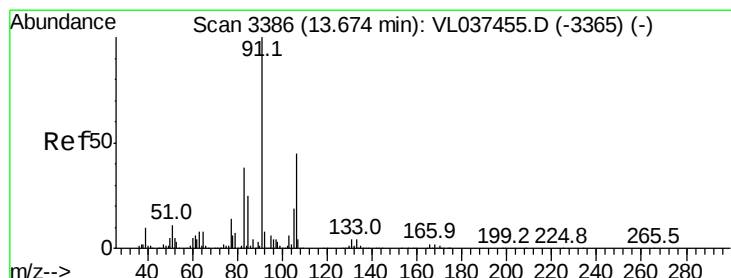
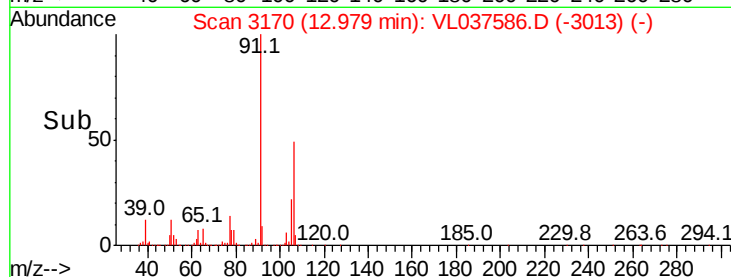
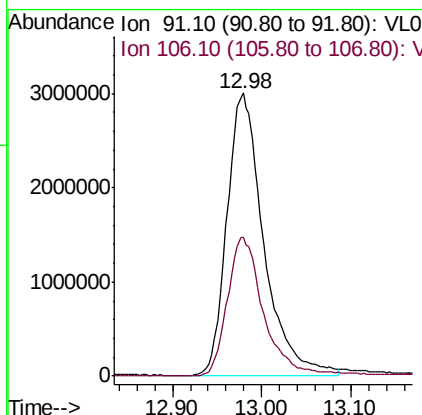
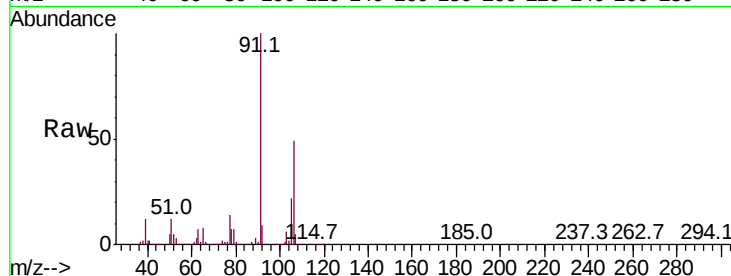




#59
m/p-Xylene
Concen: 16.787 ppbv
RT: 12.98 min Scan# 3170
Delta R.T. 0.01 min
Lab File: VL037586.D
Acq: 9 Sep 2021 00:36

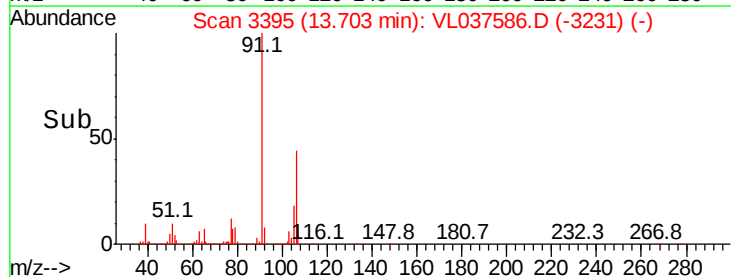
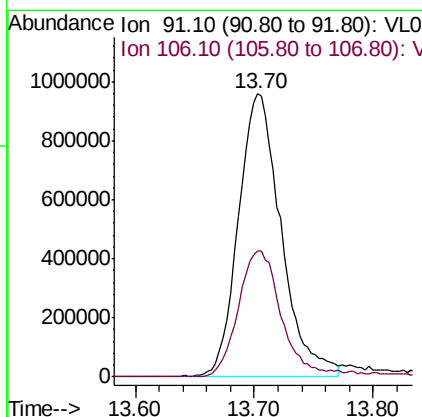
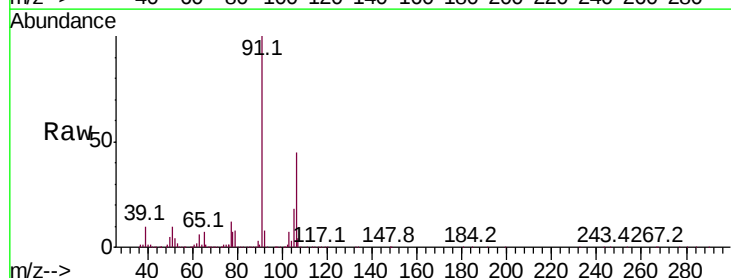
Instrument :
MSVOA_L
ClientSampleId :
SV-1DL

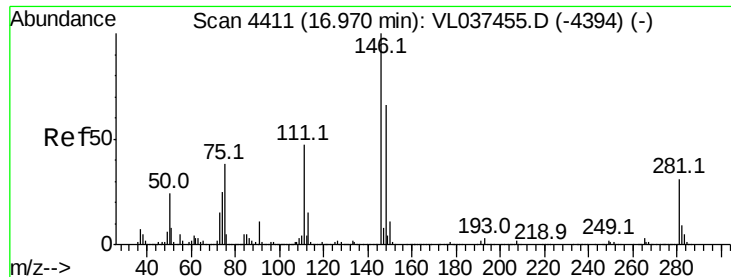
Tot Ion: 91 Resp: 8545781
Ion Ratio Lower Upper
91 100
106 49.1 36.9 55.3



#60
o-Xylene
Concen: 5.006 ppbv
RT: 13.70 min Scan# 3395
Delta R.T. 0.03 min
Lab File: VL037586.D
Acq: 9 Sep 2021 00:36

Tgt Ion: 91 Resp: 2378651
Ion Ratio Lower Upper
91 100
106 47.5 23.7 71.1

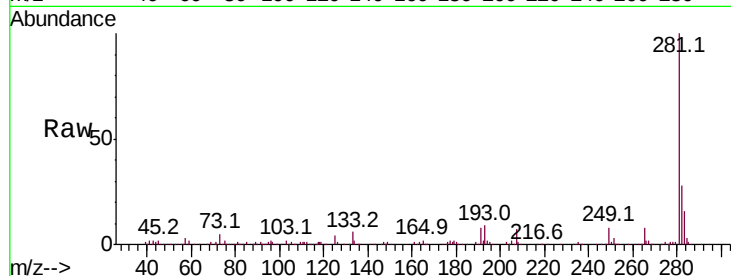




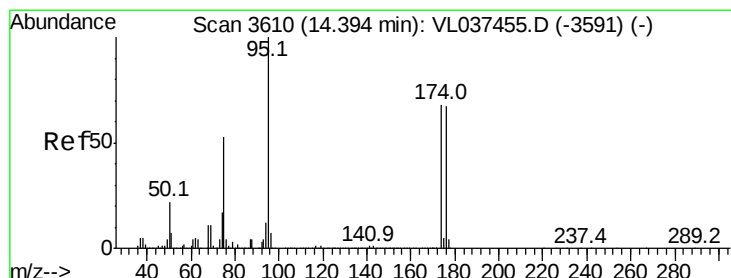
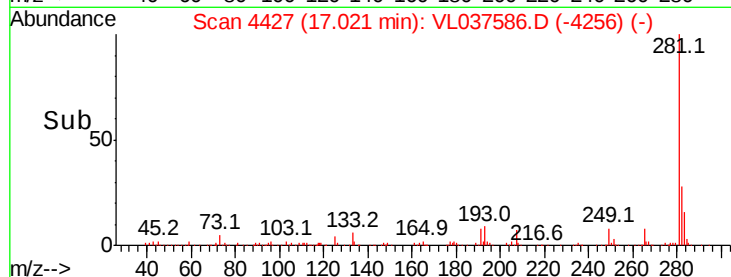
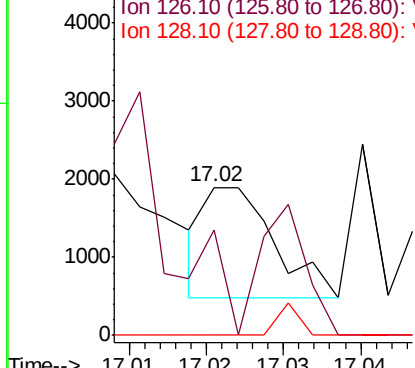
#66
Benzyl Chloride
Concen: 0.032 ppbv
RT: 17.02 min Scan# 4427
Delta R.T. 0.05 min
Lab File: VL037586.D
Acq: 9 Sep 2021 00:36

Instrument :
MSVOA_L
ClientSampleId :
SV-1DL

Tot Ion: 91 Resp: 875
Ion Ratio Lower Upper
91 100
126 0.0 15.9 23.9#
128 0.0 5.4 8.0#

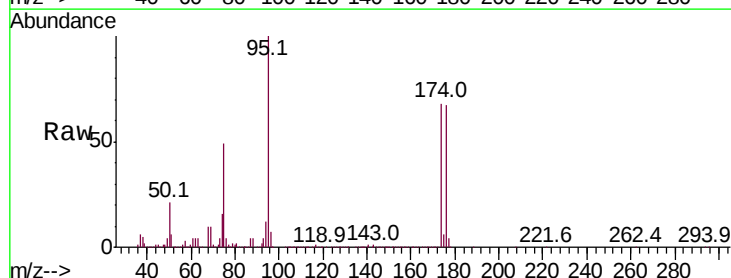


Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 126.10 (125.80 to 126.80): V
Ion 128.10 (127.80 to 128.80): V

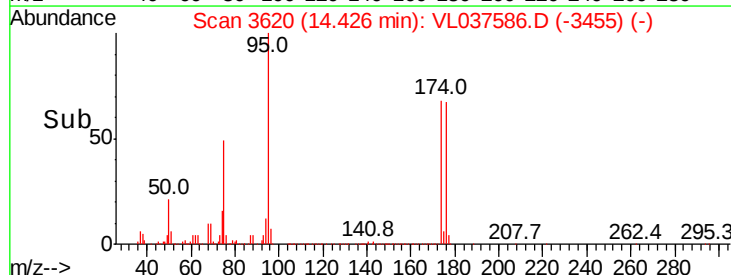
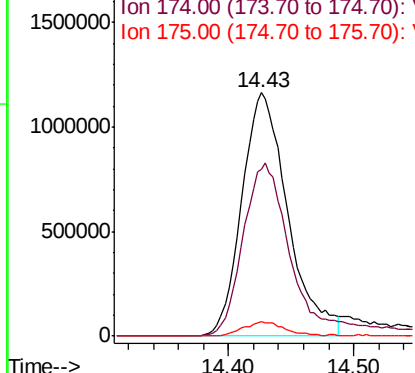


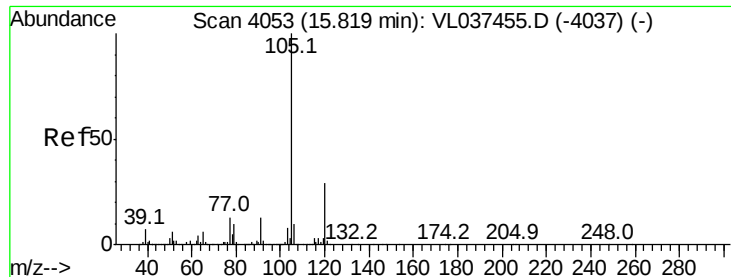
#68
1-Bromo-4-Fluorobenzene
Concen: 9.873 ppbv
RT: 14.43 min Scan# 3620
Delta R.T. 0.03 min
Lab File: VL037586.D
Acq: 9 Sep 2021 00:36

Tgt Ion: 95 Resp: 2967991
Ion Ratio Lower Upper
95 100
174 79.3 59.6 89.4
175 5.8 4.6 7.0



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





#72

4-Ethyltoluene

Concen: 0.032 ppbv

RT: 15.85 min Scan# 4063

Delta R.T. 0.03 min

Lab File: VL037586.D

Acq: 9 Sep 2021 00:36

Instrument :

MSVOA_L

ClientSampleId :

SV-1DL

Tot Ion:105 Resp: 18187

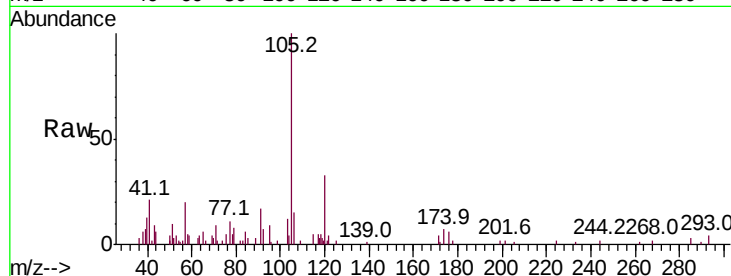
Ion Ratio Lower Upper

105 100

120 0.0 24.7 37.1#

91 31.7 9.8 14.8#

77 37.1 10.6 15.8#

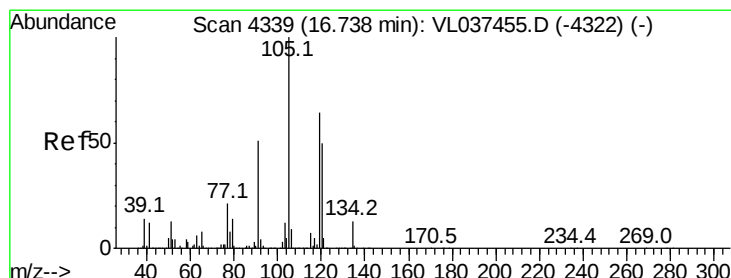
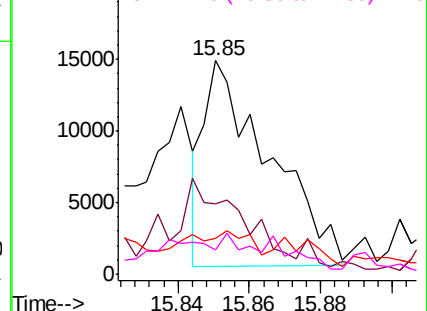
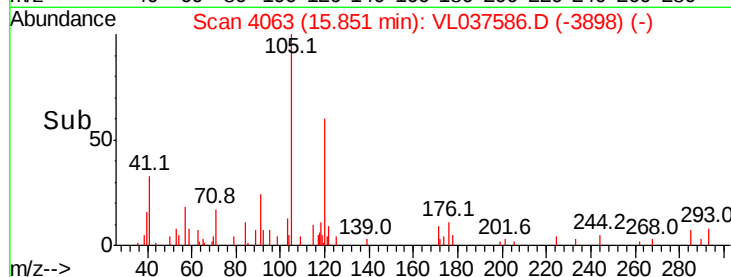


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#74

1,2,4-Trimethylbenzene

Concen: 0.042 ppbv

RT: 16.79 min Scan# 4354

Delta R.T. 0.05 min

Lab File: VL037586.D

Acq: 9 Sep 2021 00:36

Tgt Ion:105 Resp: 23307

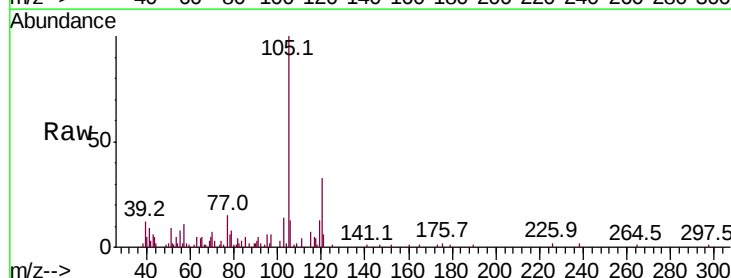
Ion Ratio Lower Upper

105 100

120 31.1 40.4 60.6#

91 0.0 44.6 67.0#

77 10.0 17.8 26.6#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

