

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061621\
 Data File : VL037182.D
 Acq On : 16 Jun 2021 22:43
 Operator : SY/AP
 Sample : M2713-03DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jun 17 01:51:08 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun 16 14:06:32 2021
 QLast Update : Wed Jun 16 14:06:32 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1516012	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	4454864	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.09	117	3953393	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2938350	9.81	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.10%

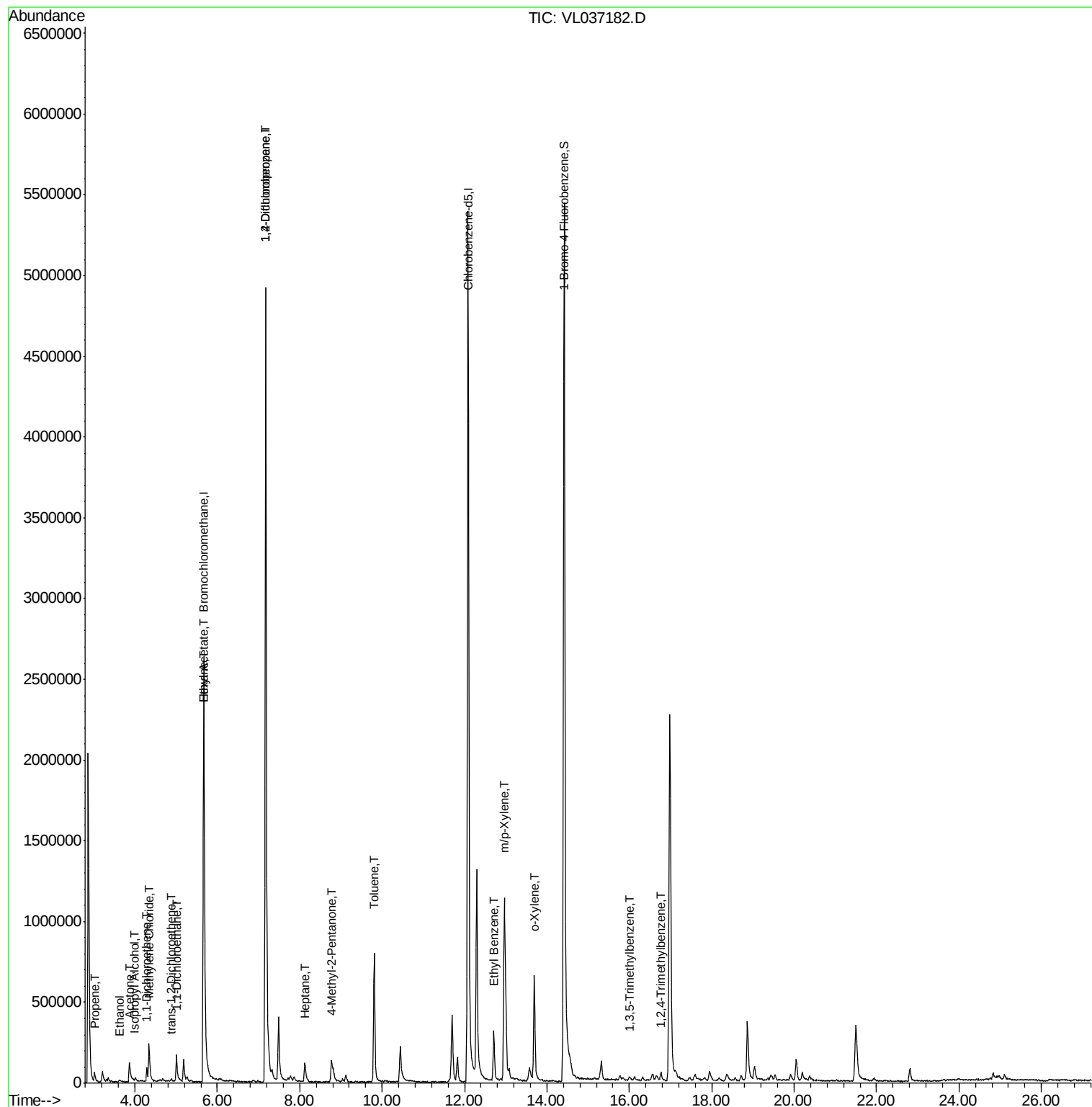
Target Compounds					Ovalue
9) Propene	3.01	41	7022	0.075 ppbv #	16
10) Heptane	8.13	43	44845	0.196 ppbv	91
13) Ethanol	3.62	45	7485	0.513 ppbv	96
15) Acetone	3.86	43	161341	0.944 ppbv #	61
18) 1,1-Dichloroethene	4.29	96	28883	0.329 ppbv #	76
19) Isopropyl Alcohol	3.99	45	3514	0.034 ppbv #	91
20) Methylene Chloride	4.35	84	97877	0.956 ppbv	93
22) trans-1,2-Dichloroethene	4.89	96	2333	0.027 ppbv #	39
24) 1,1-Dichloroethane	5.01	63	154145	0.781 ppbv	96
25) Ethyl Acetate	5.69	43	63328	0.171 ppbv #	90
26) Hexane	5.69	57	55412	0.296 ppbv #	60
39) 1,2-Dichloropropane	7.18	63	1059683	7.916 ppbv #	24
50) 4-Methyl-2-Pentanone	8.77	43	85187	0.358 ppbv #	66
53) Toluene	9.81	91	713186	1.657 ppbv	100
58) Ethyl Benzene	12.71	91	286723	0.527 ppbv	94
59) m/p-Xylene	12.97	91	728258	1.579 ppbv #	30
60) o-Xylene	13.69	91	535771	1.220 ppbv	98
73) 1,3,5-Trimethylbenzene	16.00	105	14065	0.029 ppbv #	76
74) 1,2,4-Trimethylbenzene	16.77	105	23620	0.048 ppbv #	72

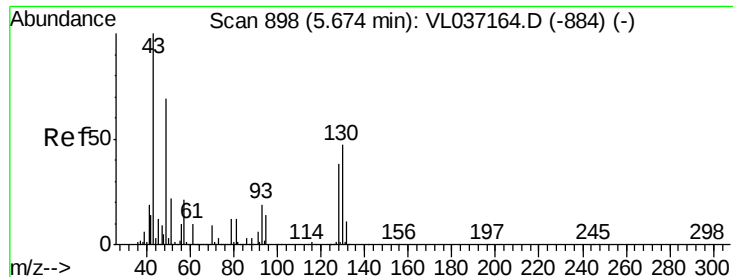
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061621\
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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jun 16 14:06:32 2021
QLast Update : Wed Jun 16 14:06:32 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.01 min

Lab File: VL037182.D

Acq: 16 Jun 2021 22:43

Instrument :

MSVOA_L

ClientSampleId :

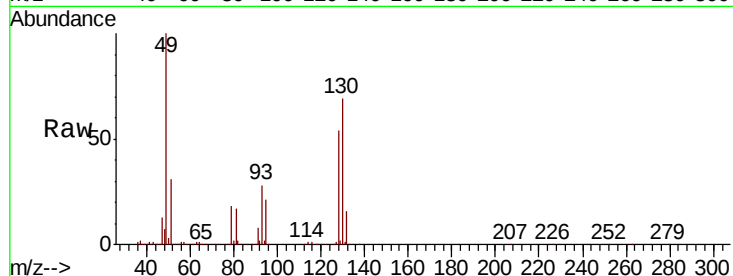
Tot Ion: 49 Resp: 1516012

Ion Ratio Lower Upper

49 100

128 56.9 29.3 88.0

130 73.7 35.9 107.8



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

800000

600000

400000

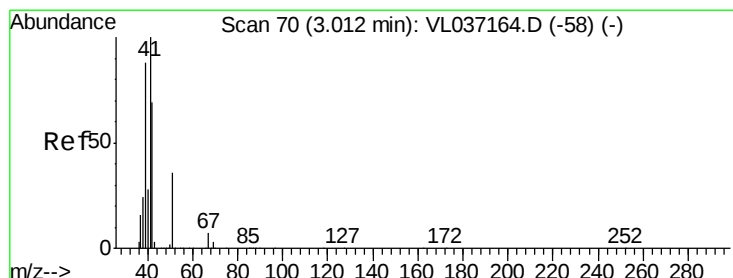
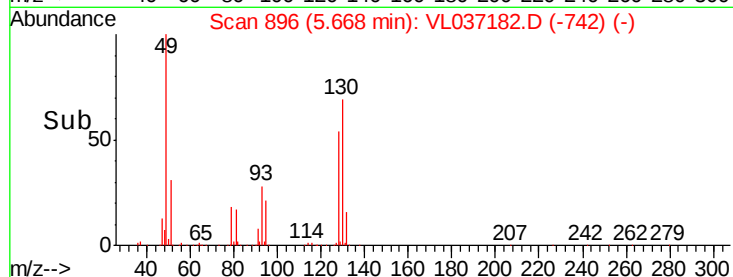
200000

0

5.67

5.60 5.65 5.70 5.75

Time-->



#9

Propene

Concen: 0.075 ppbv

RT: 3.01 min Scan# 69

Delta R.T. -0.00 min

Lab File: VL037182.D

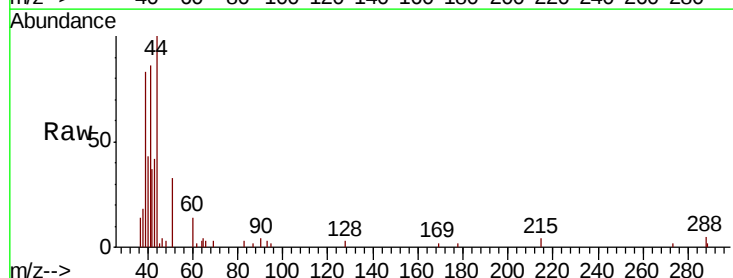
Acq: 16 Jun 2021 22:43

Tgt Ion: 41 Resp: 7022

Ion Ratio Lower Upper

41 100

42 0.0 54.5 81.7#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

8000

6000

4000

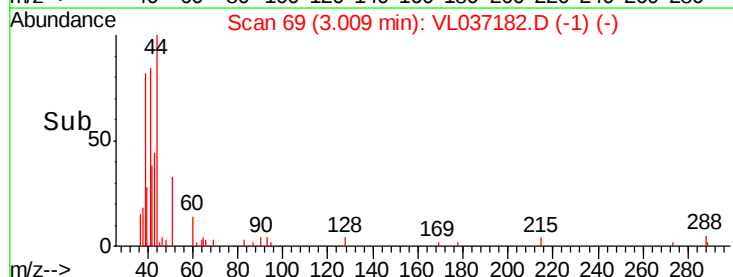
2000

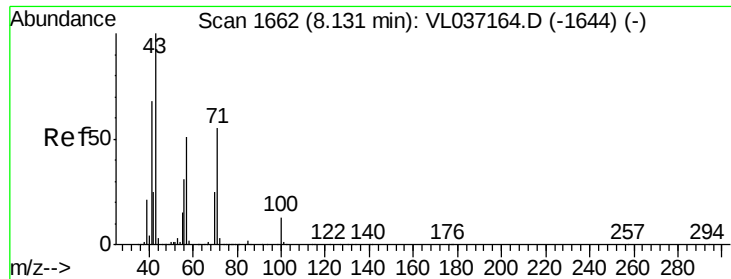
0

3.01

2.98 3.00 3.02

Time-->

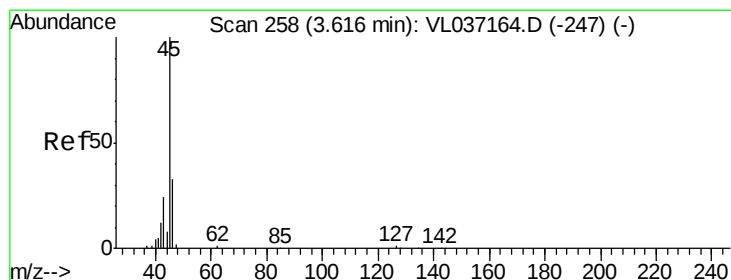
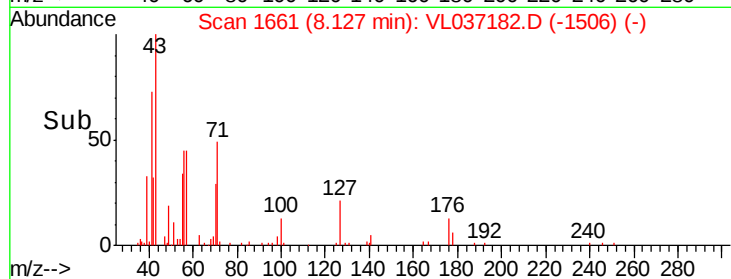
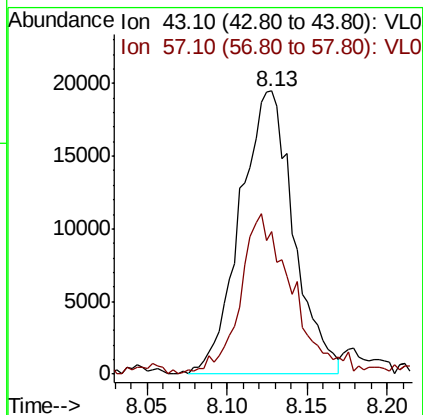
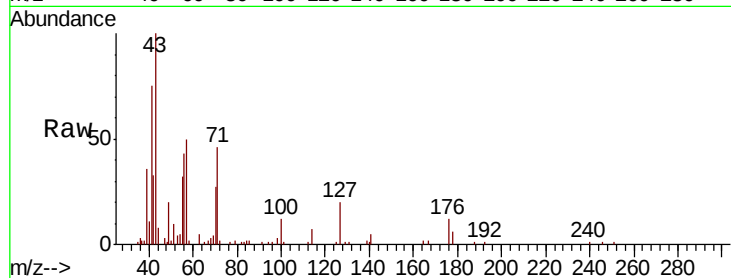




#10
Heptane
Concen: 0.196 ppbv
RT: 8.13 min Scan# 1661
Delta R.T. -0.00 min
Lab File: VL037182.D
Acq: 16 Jun 2021 22:43

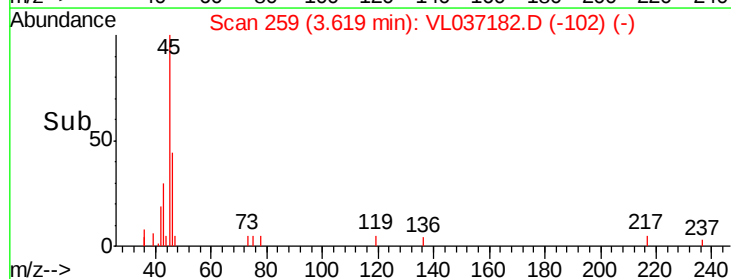
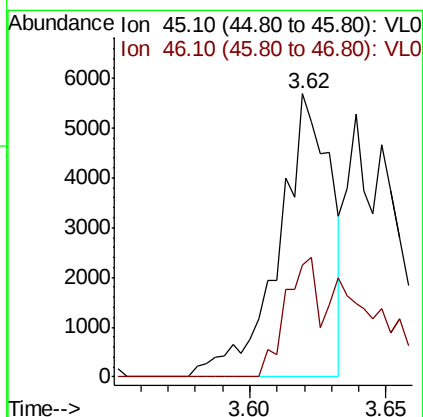
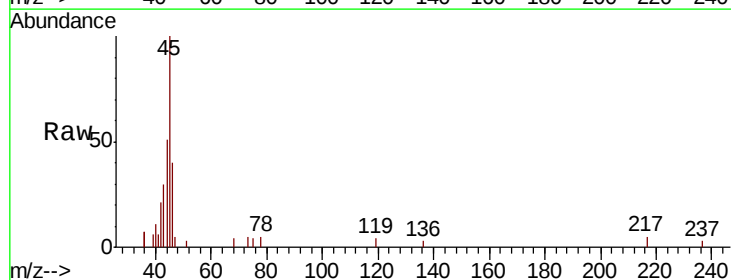
Instrument :
MSVOA_L
ClientSampled :

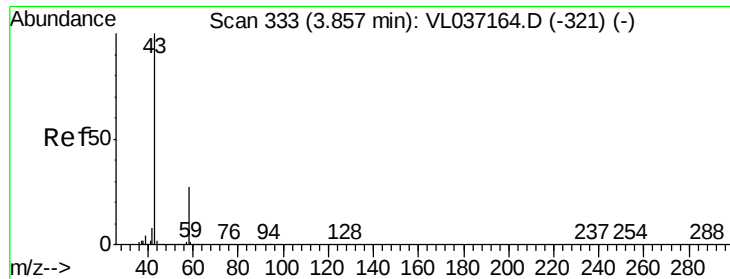
Tot Ion: 43 Resp: 44845
Ion Ratio Lower Upper
43 100
57 56.9 40.6 61.0



#13
Ethanol
Concen: 0.513 ppbv
RT: 3.62 min Scan# 259
Delta R.T. 0.00 min
Lab File: VL037182.D
Acq: 16 Jun 2021 22:43

Tgt Ion: 45 Resp: 7485
Ion Ratio Lower Upper
45 100
46 82.0 34.2 137.0





#15

Acetone

Concen: 0.944 ppbv

RT: 3.86 min Scan# 334

Delta R.T. 0.00 min

Lab File: VL037182.D

Acq: 16 Jun 2021 22:43

Instrument :

MSVOA_L

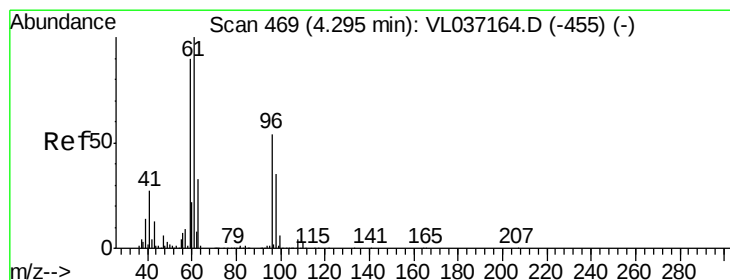
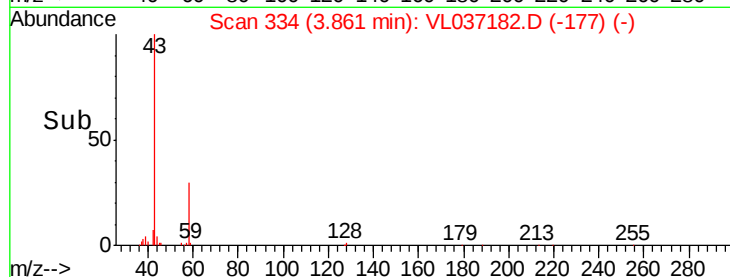
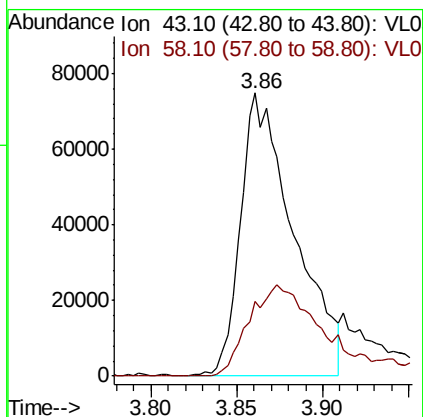
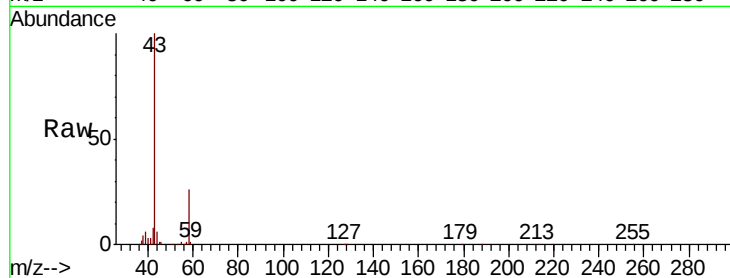
ClientSampleId :

Tot Ion: 43 Resp: 161341

Ion Ratio Lower Upper

43 100

58 50.6 23.7 35.5#



#18

1,1-Dichloroethene

Concen: 0.329 ppbv

RT: 4.29 min Scan# 468

Delta R.T. -0.00 min

Lab File: VL037182.D

Acq: 16 Jun 2021 22:43

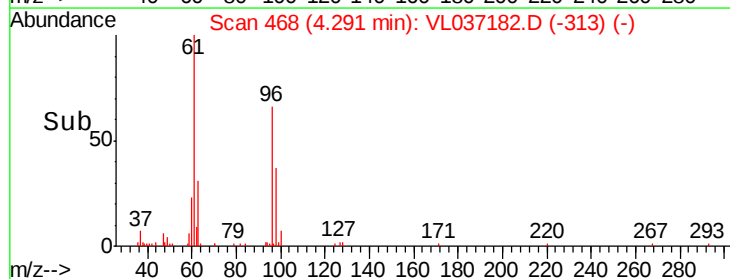
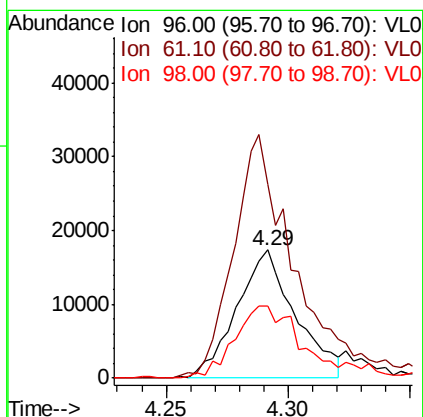
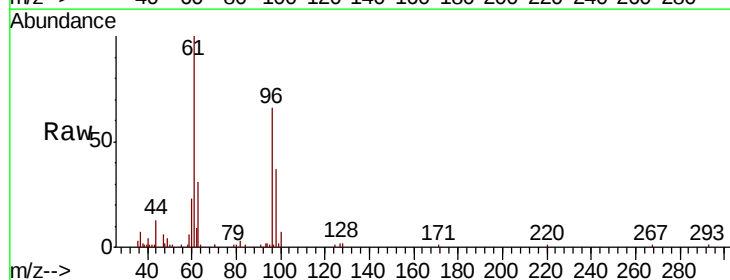
Tgt Ion: 96 Resp: 28883

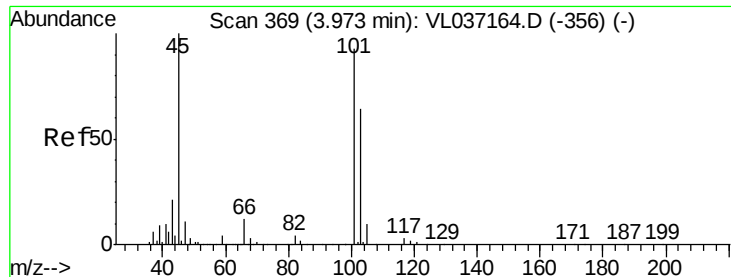
Ion Ratio Lower Upper

96 100

61 147.0 148.6 222.8#

98 53.2 51.9 77.9



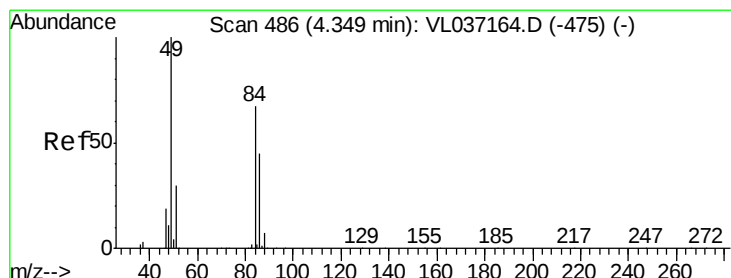
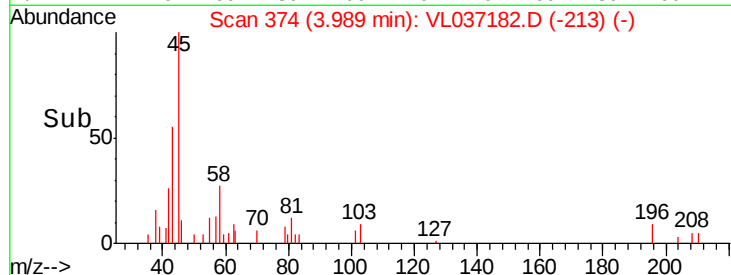
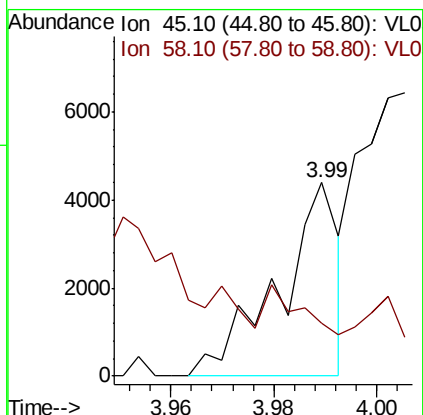
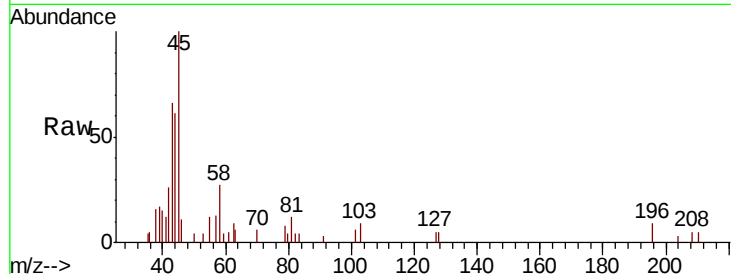


#19

Isopropyl Alcohol
 Concen: 0.034 ppbv
 RT: 3.99 min Scan# 374
 Delta R.T. 0.02 min
 Lab File: VL037182.D
 Acq: 16 Jun 2021 22:43

Instrument :
 MSVOA_L
 ClientSampled :

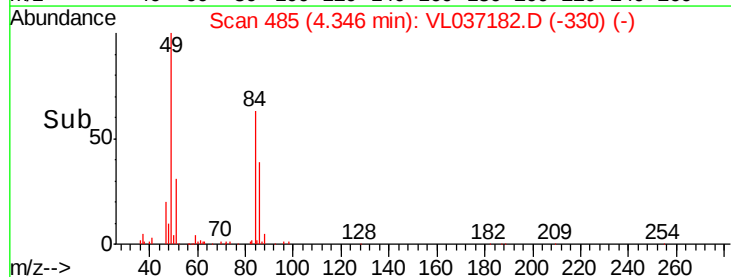
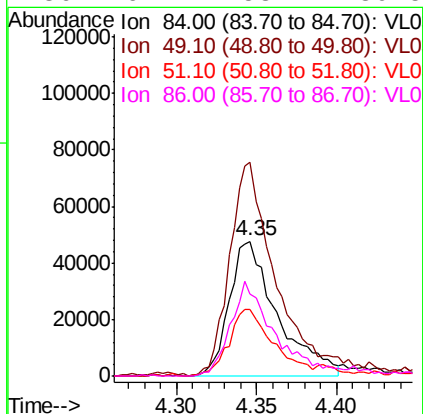
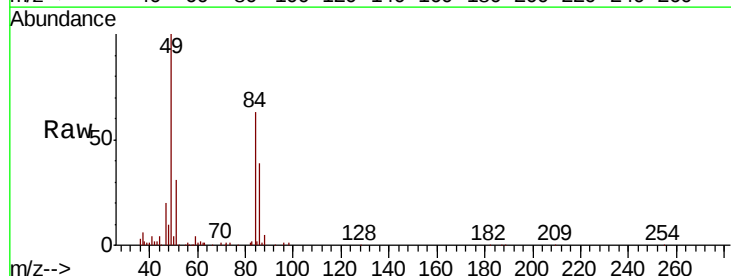
Tot Ion: 45 Resp: 3514
 Ion Ratio Lower Upper
 45 100
 58 0.0 2.4 3.6#

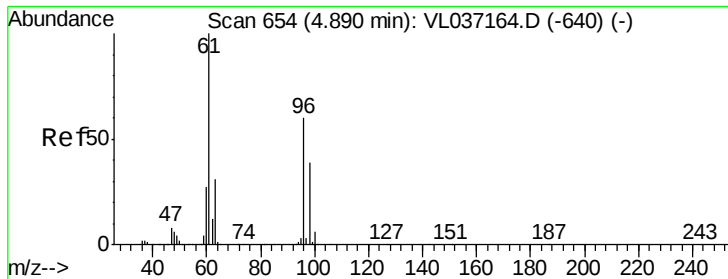


#20

Methylene Chloride
 Concen: 0.956 ppbv
 RT: 4.35 min Scan# 485
 Delta R.T. -0.00 min
 Lab File: VL037182.D
 Acq: 16 Jun 2021 22:43

Tgt Ion: 84 Resp: 97877
 Ion Ratio Lower Upper
 84 100
 49 158.2 119.7 179.5
 51 49.4 36.1 54.1
 86 61.2 53.7 80.5





#22

trans-1,2-Dichloroethene

Concen: 0.027 ppbv

RT: 4.89 min Scan# 653

Delta R.T. -0.00 min

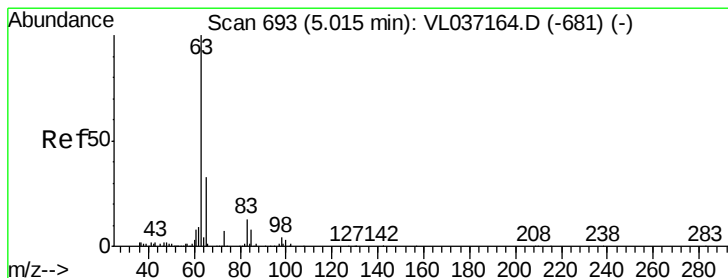
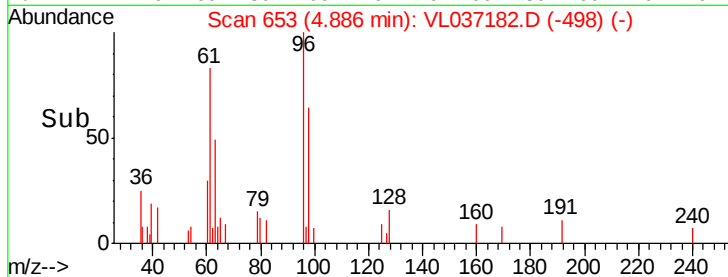
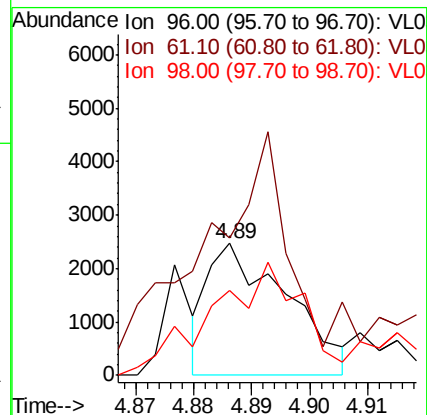
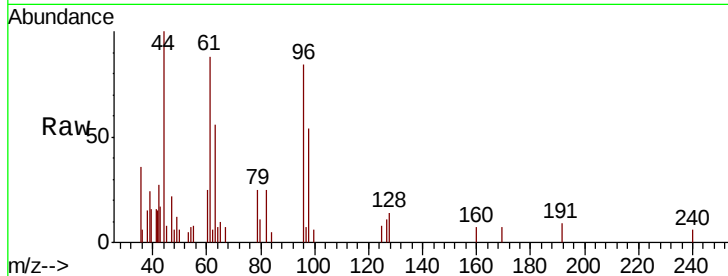
Lab File: VL037182.D

Acq: 16 Jun 2021 22:43

Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 96 Resp: 2333

Ion	Ratio	Lower	Upper
96	100		
61	54.7	133.9	200.9#
98	70.1	52.9	79.3



#24

1,1-Dichloroethane

Concen: 0.781 ppbv

RT: 5.01 min Scan# 691

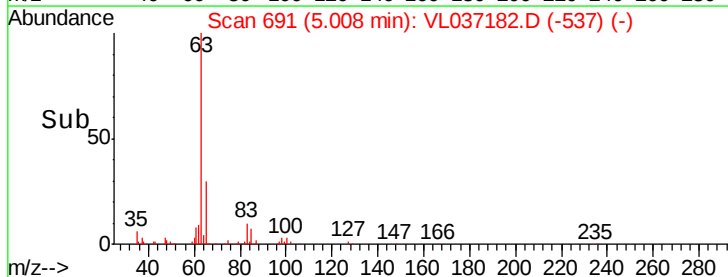
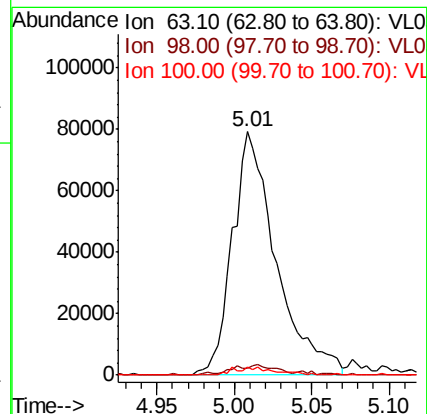
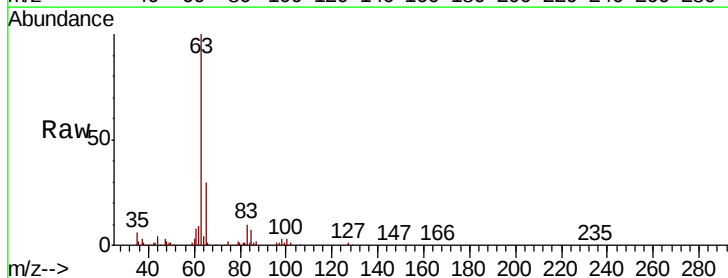
Delta R.T. -0.01 min

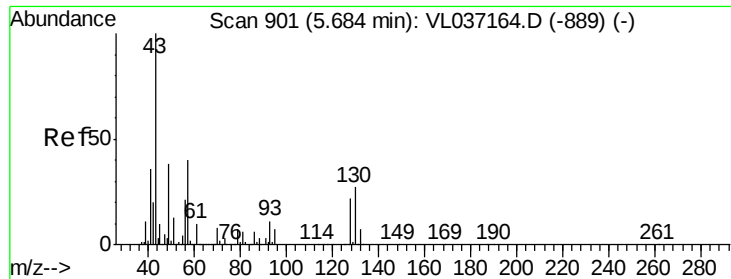
Lab File: VL037182.D

Acq: 16 Jun 2021 22:43

Tgt Ion: 63 Resp: 154145

Ion	Ratio	Lower	Upper
63	100		
98	2.6	2.1	6.5
100	3.2	1.4	4.0





#25

Ethyl Acetate

Concen: 0.171 ppbv

RT: 5.69 min Scan# 902

Delta R.T. 0.00 min

Lab File: VL037182.D

Acq: 16 Jun 2021 22:43

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 63328

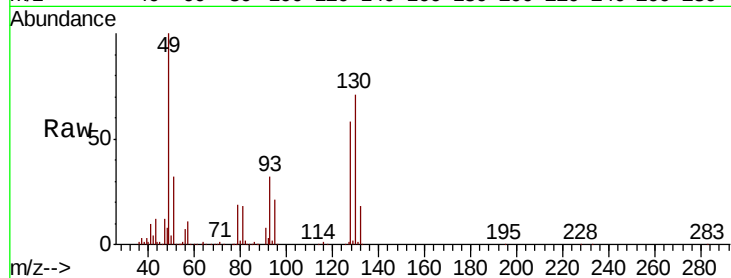
Ion Ratio Lower Upper

43 100

45 5.8 8.0 12.0#

61 6.0 8.1 12.1#

70 5.1 5.5 8.3#

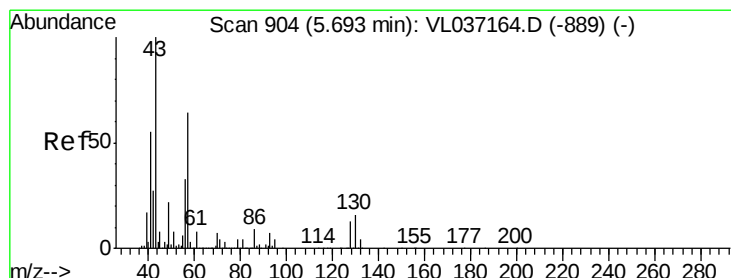
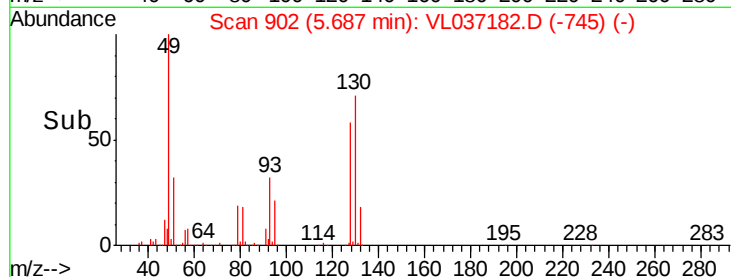
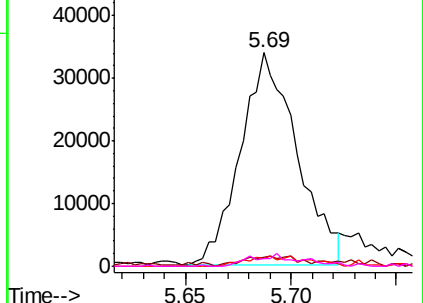


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 0.296 ppbv

RT: 5.69 min Scan# 902

Delta R.T. -0.01 min

Lab File: VL037182.D

Acq: 16 Jun 2021 22:43

Tgt Ion: 57 Resp: 55412

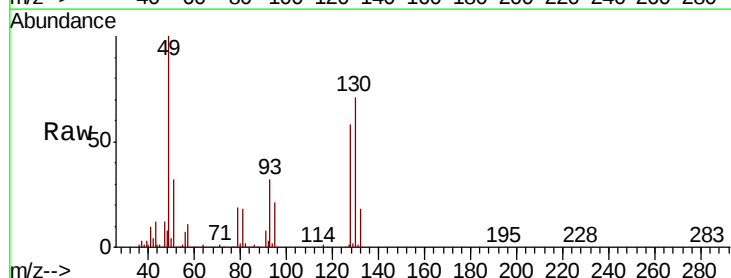
Ion Ratio Lower Upper

57 100

41 113.1 73.5 110.3#

43 128.1 170.7 256.1#

56 62.6 42.4 63.6

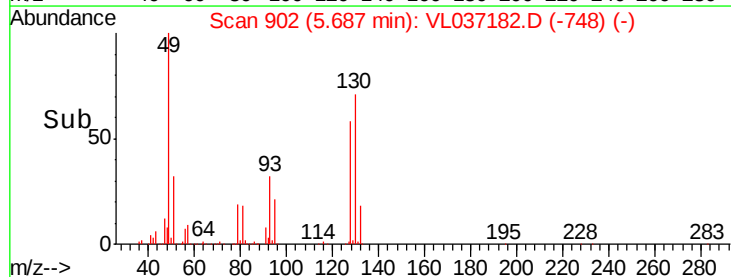
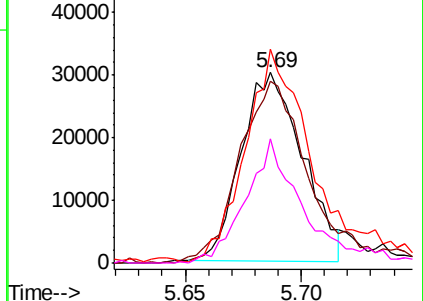


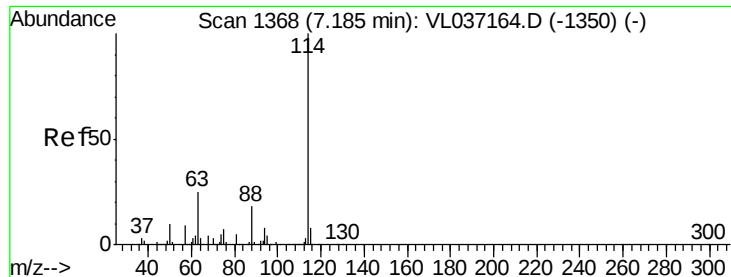
Abundance Ion 57.10 (56.80 to 57.80): VL0

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

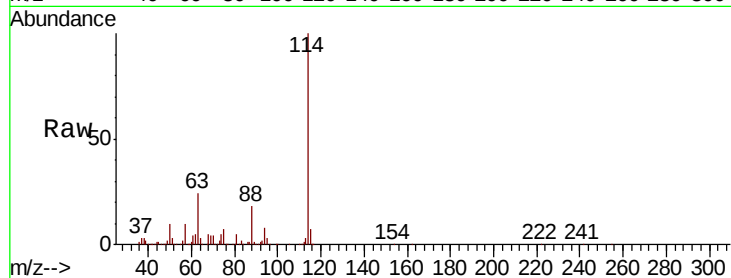




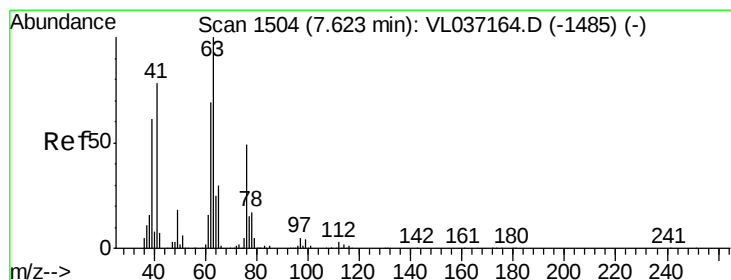
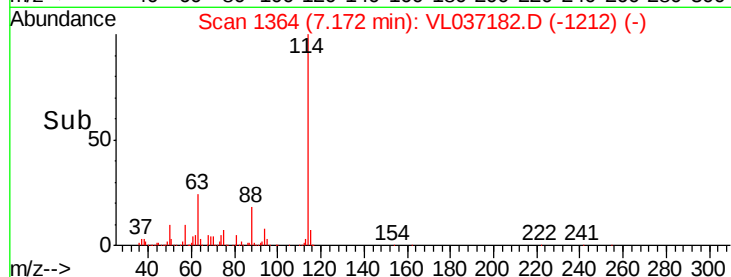
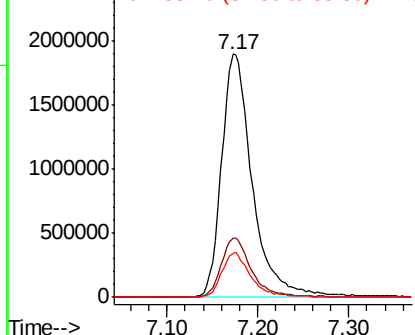
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1364
 Delta R.T. -0.01 min
 Lab File: VL037182.D
 Acq: 16 Jun 2021 22:43

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 4454864
 Ion Ratio Lower Upper
 114 100
 63 24.5 19.6 29.4
 88 17.8 14.2 21.2

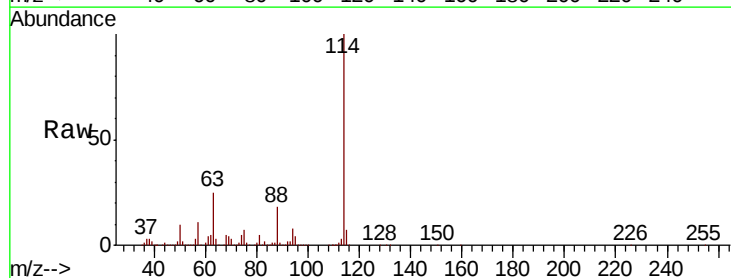


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

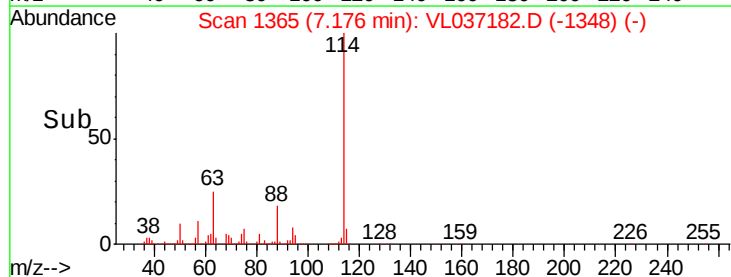
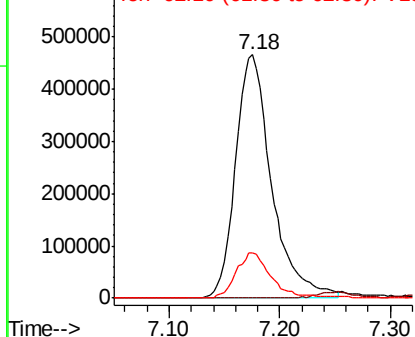


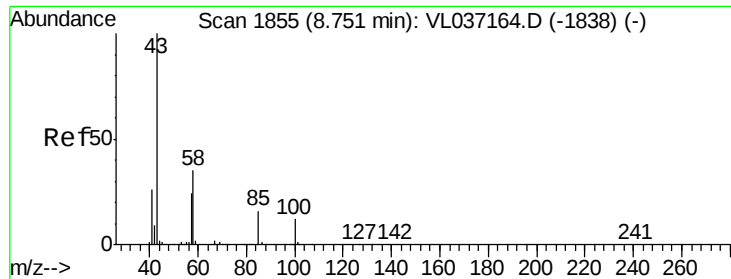
#39
 1,2-Dichloropropane
 Concen: 7.916 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. -0.45 min
 Lab File: VL037182.D
 Acq: 16 Jun 2021 22:43

Tgt Ion: 63 Resp: 1059683
 Ion Ratio Lower Upper
 63 100
 41 0.1 62.0 93.0#
 62 18.6 54.9 82.3#



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

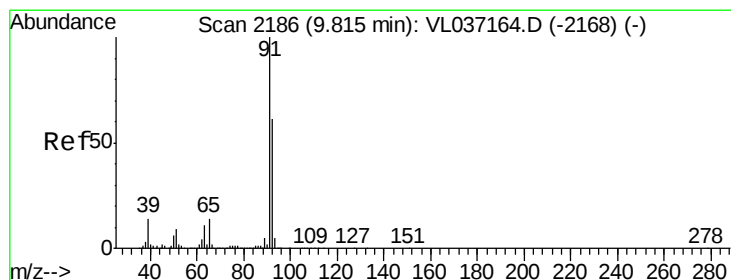
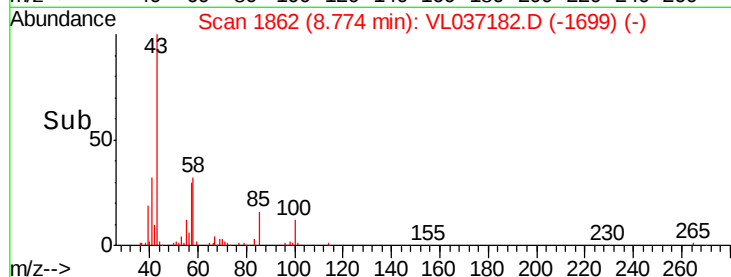
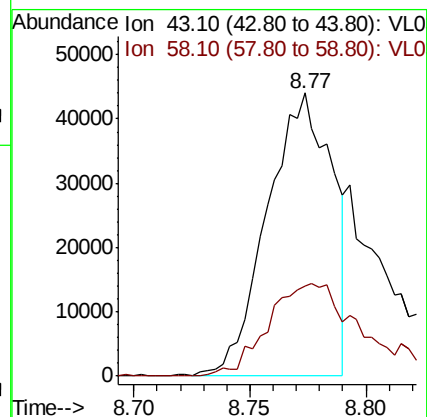
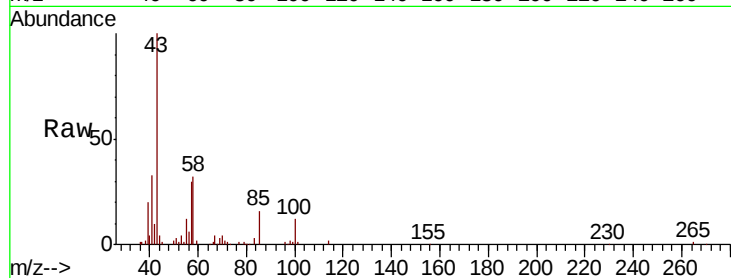




#50
4-Methyl-2-Pentanone
Concen: 0.358 ppbv
RT: 8.77 min Scan# 1862
Delta R.T. 0.02 min
Lab File: VL037182.D
Acq: 16 Jun 2021 22:43

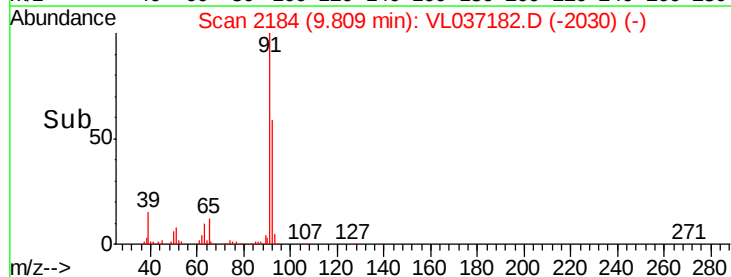
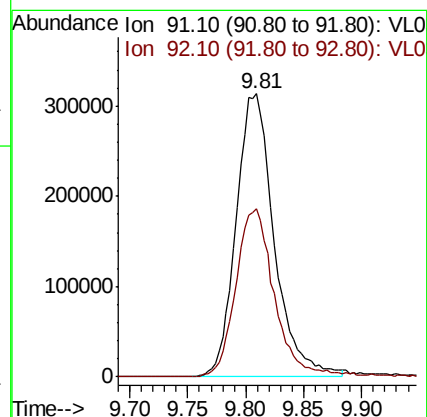
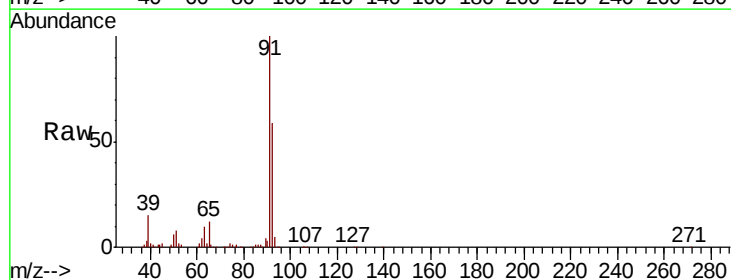
Instrument :
MSVOA_L
ClientSampleId :

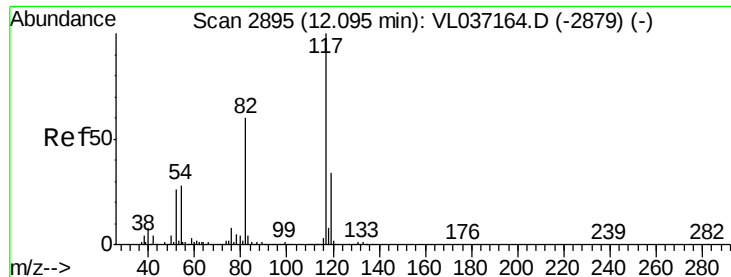
Tot Ion: 43 Resp: 85187
Ion Ratio Lower Upper
43 100
58 55.3 28.4 42.6#



#53
Toluene
Concen: 1.657 ppbv
RT: 9.81 min Scan# 2184
Delta R.T. -0.01 min
Lab File: VL037182.D
Acq: 16 Jun 2021 22:43

Tgt Ion: 91 Resp: 713186
Ion Ratio Lower Upper
91 100
92 60.6 48.3 72.5

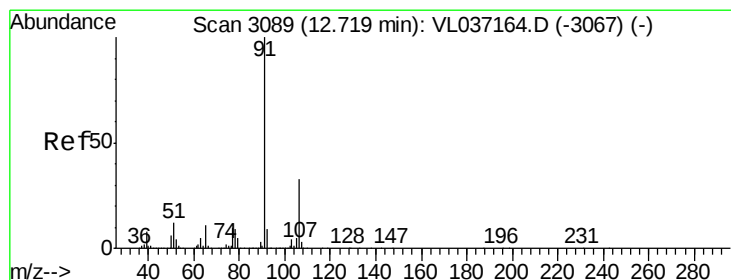
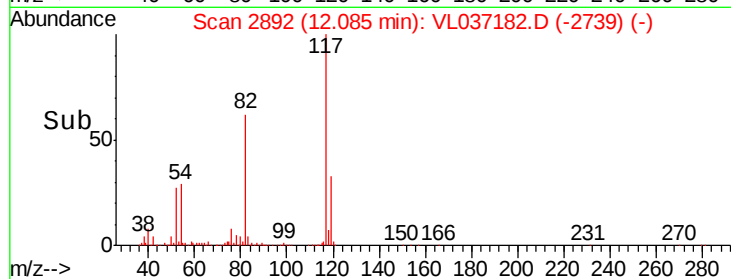
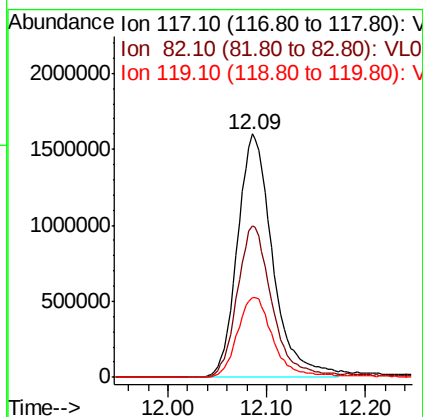
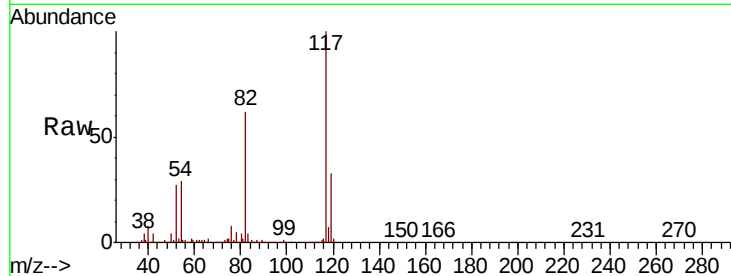




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2892
Delta R.T. -0.01 min
Lab File: VL037182.D
Acq: 16 Jun 2021 22:43

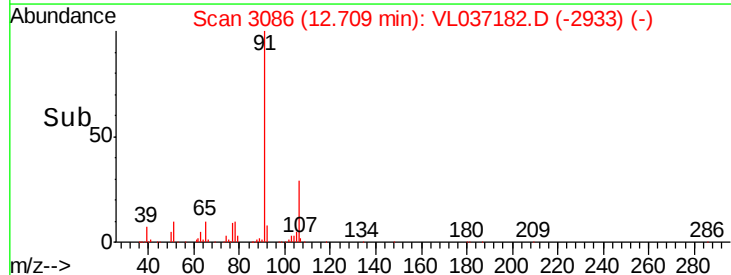
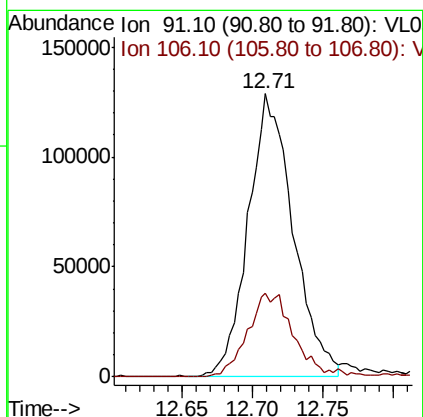
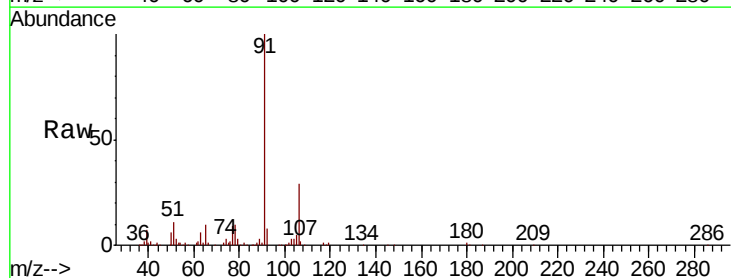
Instrument :
MSVOA_L
ClientSampleId :

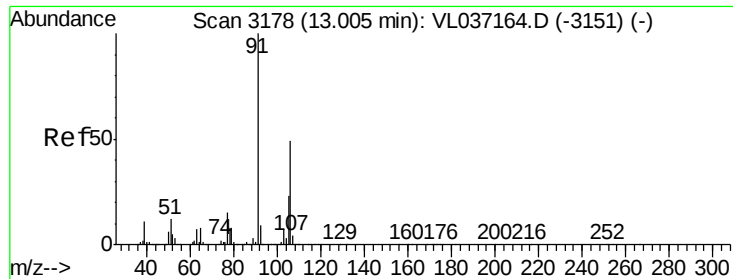
Tot Ion:117 Resp: 3953393
Ion Ratio Lower Upper
117 100
82 63.5 51.7 77.5
119 34.1 47.6 71.4#



#58
Ethyl Benzene
Concen: 0.527 ppbv
RT: 12.71 min Scan# 3086
Delta R.T. -0.01 min
Lab File: VL037182.D
Acq: 16 Jun 2021 22:43

Tgt Ion: 91 Resp: 286723
Ion Ratio Lower Upper
91 100
106 29.4 26.3 39.5

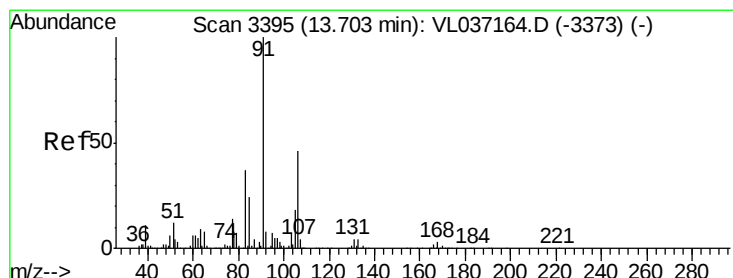
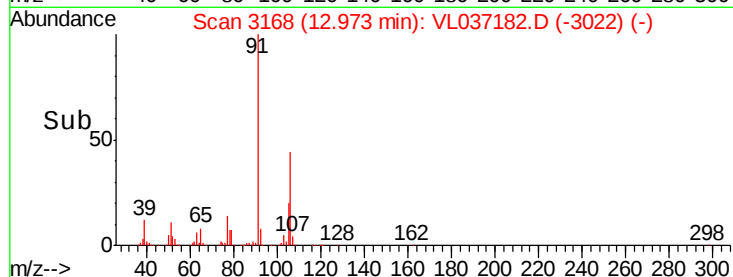
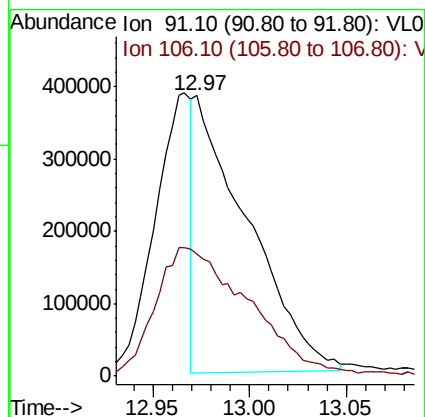
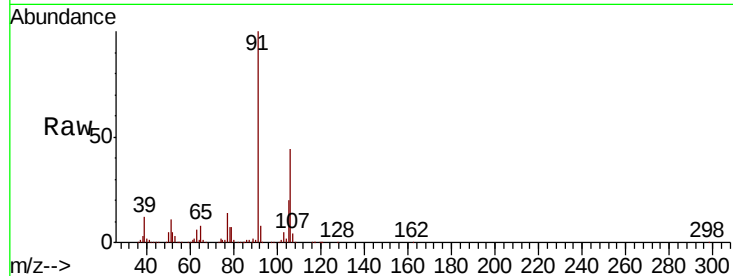




#59
m/p-Xylene
Concen: 1.579 ppbv
RT: 12.97 min Scan# 3168
Delta R.T. -0.03 min
Lab File: VL037182.D
Acq: 16 Jun 2021 22:43

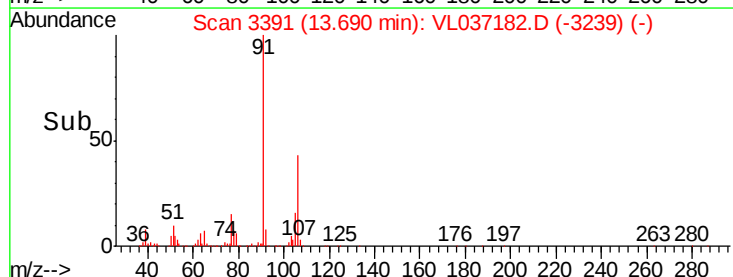
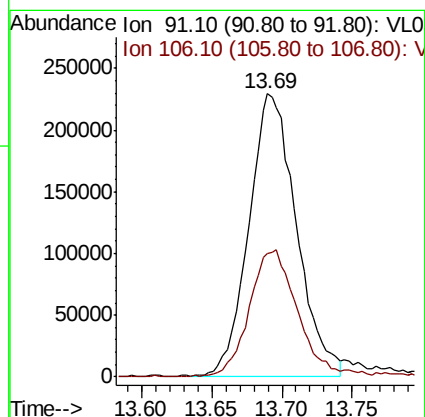
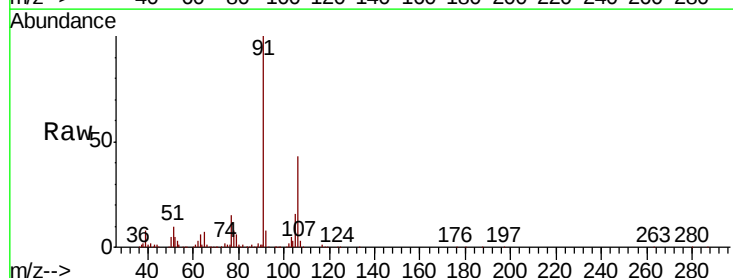
Instrument :
MSVOA_L
ClientSampled :

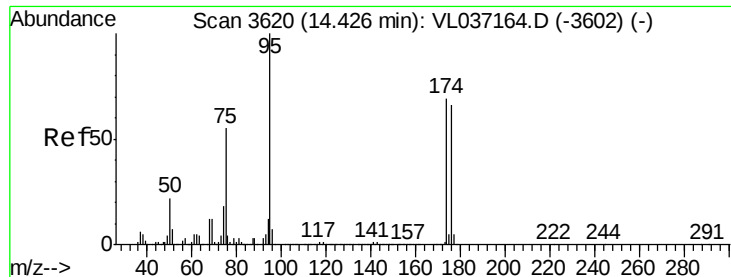
Tot Ion: 91 Resp: 728258
Ion Ratio Lower Upper
91 100
106 0.0 37.0 55.4#



#60
o-Xylene
Concen: 1.220 ppbv
RT: 13.69 min Scan# 3391
Delta R.T. -0.01 min
Lab File: VL037182.D
Acq: 16 Jun 2021 22:43

Tgt Ion: 91 Resp: 535771
Ion Ratio Lower Upper
91 100
106 47.3 23.0 69.0

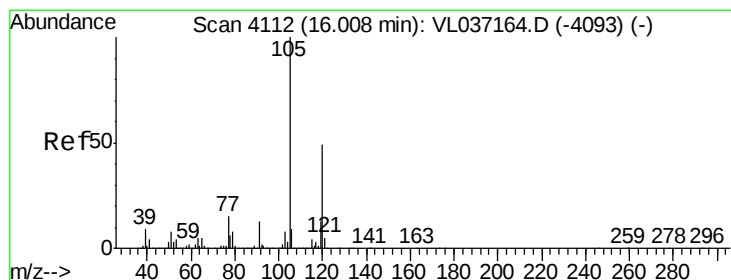
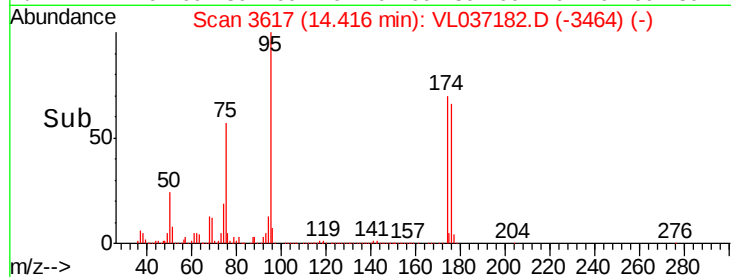
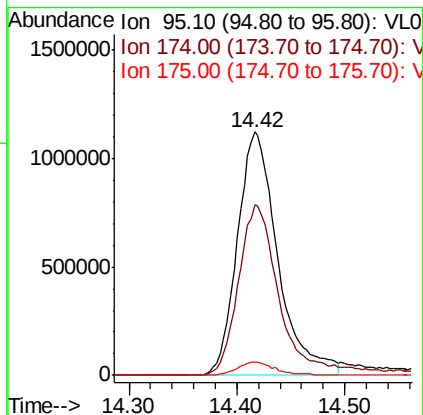
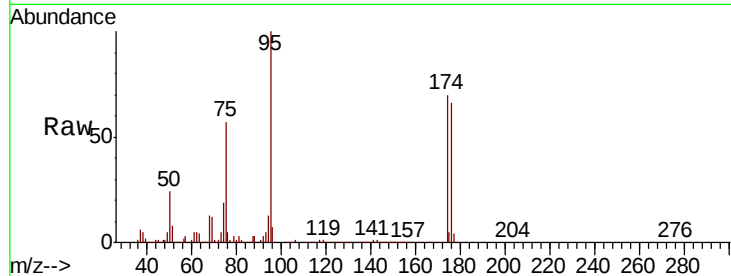




#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.808 ppbv
 RT: 14.42 min Scan# 3617
 Delta R.T. -0.01 min
 Lab File: VL037182.D
 Acq: 16 Jun 2021 22:43

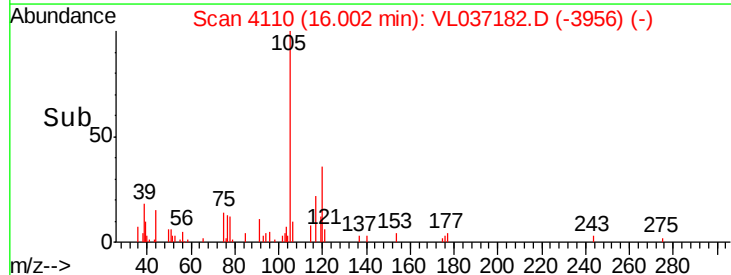
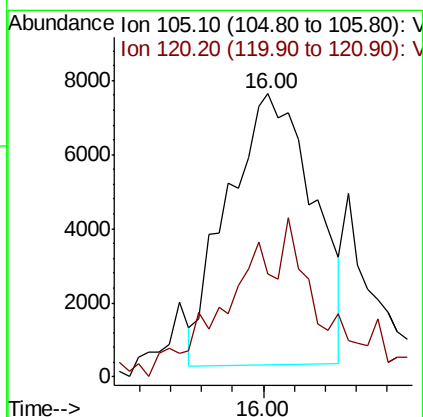
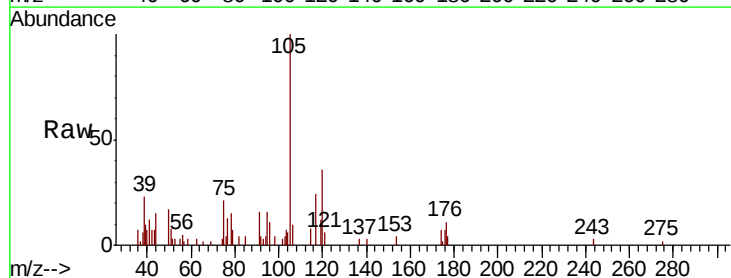
Instrument :
 MSVOA_L
 ClientSampled :

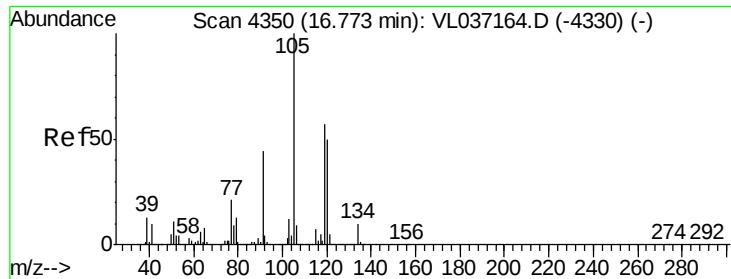
Tot Ion: 95 Resp: 2938350
 Ion Ratio Lower Upper
 95 100
 174 74.7 57.0 85.4
 175 5.3 4.4 6.6



#73
 1,3,5-Trimethylbenzene
 Concen: 0.029 ppbv
 RT: 16.00 min Scan# 4110
 Delta R.T. -0.01 min
 Lab File: VL037182.D
 Acq: 16 Jun 2021 22:43

Tgt Ion:105 Resp: 14065
 Ion Ratio Lower Upper
 105 100
 120 32.6 39.4 59.2#





#74
 1,2,4-Trimethylbenzene
 Concen: 0.048 ppbv
 RT: 16.77 min Scan# 4349
 Delta R.T. -0.00 min
 Lab File: VL037182.D
 Acq: 16 Jun 2021 22:43

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:	105	Resp:	23620
Ion	Ratio	Lower	Upper
105	100		
120	41.7	39.8	59.8
91	11.8	37.0	55.4#
77	14.0	17.0	25.4#

