

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101220\
 Data File : VL035770.D
 Acq On : 12 Oct 2020 20:33
 Operator : SY/AP
 Sample : L4347-05DL 40X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 5DL

Quant Time: Oct 13 00:06:52 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Sep 23 07:38:05 2020
 QLast Update : Wed Sep 23 07:38:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1157804	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.18	114	4844226	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.10	117	4732448	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	3498208	9.86	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.60%

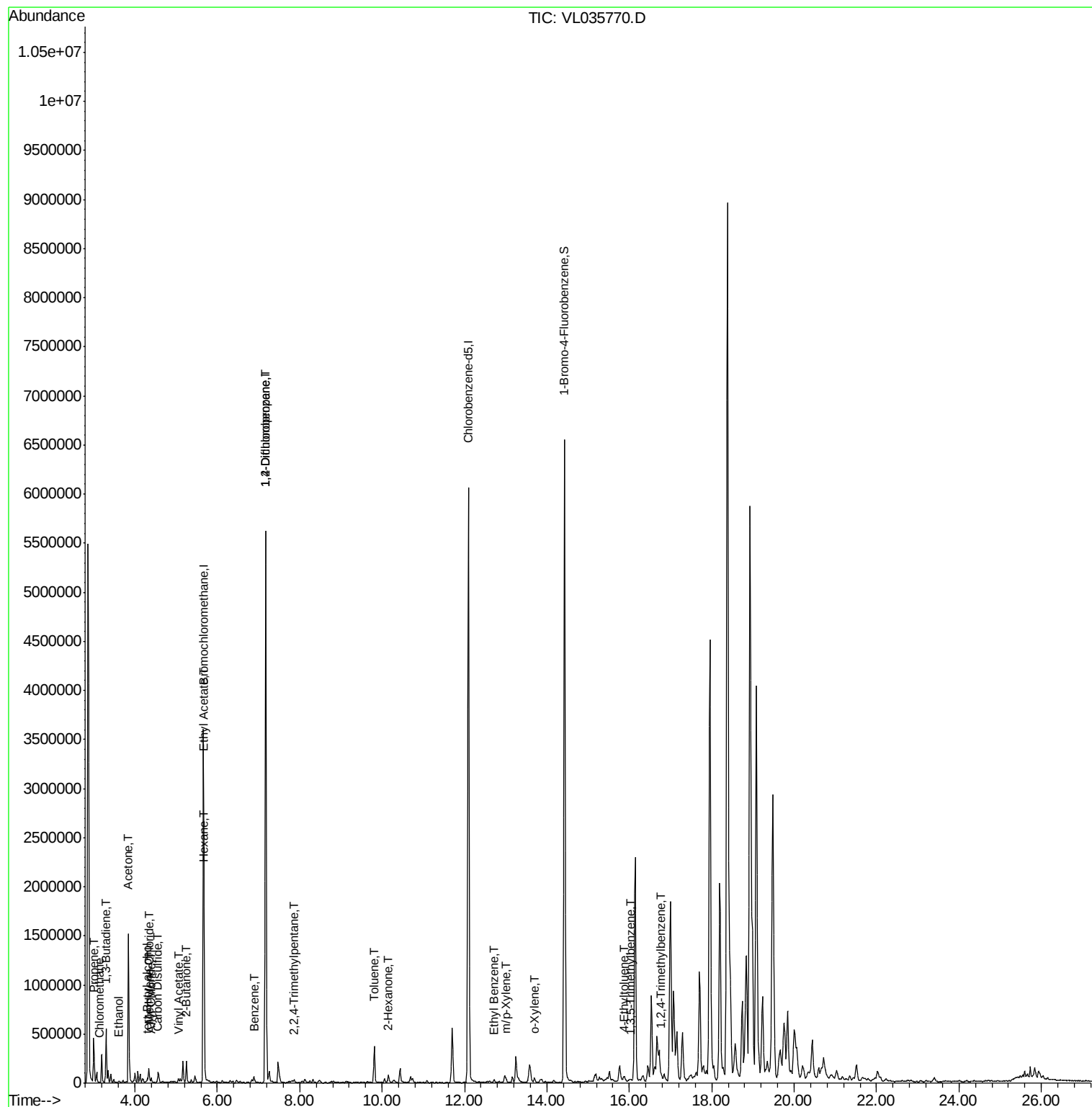
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
4) Chloromethane	3.13	50	2606	0.039	ppbv #	86
9) Propene	3.00	41	187216	4.140	ppbv	94
13) Ethanol	3.61	45	13329	1.195	ppbv	94
15) Acetone	3.84	43	1413355	11.345	ppbv	91
16) 1,3-Butadiene	3.30	39	137165	3.009	ppbv #	13
17) tert-Butyl alcohol	4.31	59	20188	0.149	ppbv	96
20) Methylene Chloride	4.34	84	54317	0.594	ppbv	96
21) Allyl Chloride	4.39	41	2594	0.043	ppbv #	1
23) Vinyl Acetate	5.06	43	19447	0.127	ppbv #	72
25) Ethyl Acetate	5.68	43	23263	0.104	ppbv #	79
26) Hexane	5.69	57	42489	0.346	ppbv #	44
27) Carbon Disulfide	4.55	76	24783	0.135	ppbv #	79
34) 2-Butanone	5.25	43	219198	1.368	ppbv	93
36) Benzene	6.89	78	56718	0.180	ppbv	94
39) 1,2-Dichloropropane	7.18	63	911397	7.966	ppbv #	30
44) 2,2,4-Trimethylpentane	7.87	57	19553	0.043	ppbv #	65
51) 2-Hexanone	10.16	43	53436	0.283	ppbv #	99
53) Toluene	9.81	91	325529	0.875	ppbv	97
58) Ethyl Benzene	12.72	91	30581	0.064	ppbv	91
59) m/p-Xylene	13.01	91	15582	0.038	ppbv #	26
60) o-Xylene	13.70	91	34792	0.083	ppbv	95
72) 4-Ethyltoluene	15.85	105	15424	0.031	ppbv #	87
73) 1,3,5-Trimethylbenzene	16.01	105	14966	0.032	ppbv	87
74) 1,2,4-Trimethylbenzene	16.77	105	28075	0.053	ppbv #	67

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

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.02 min

Lab File: VL035770.D

Acq: 12 Oct 2020 20:33

Instrument :

MSVOA_L

ClientSampled :

5DL

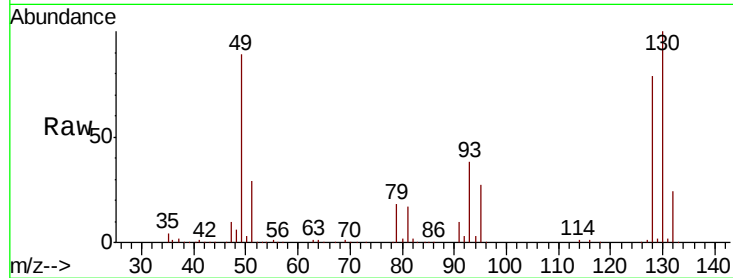
Tot Ion: 49 Resp: 1157804

Ion Ratio Lower Upper

49 100

128 90.2 43.1 129.4

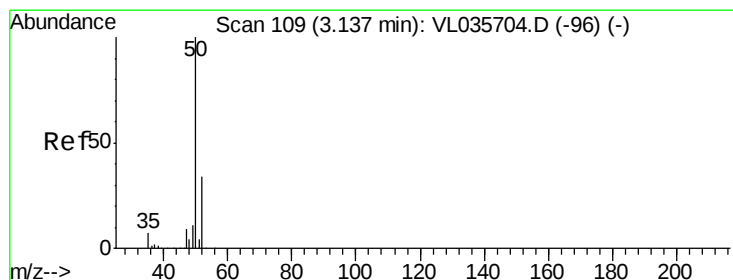
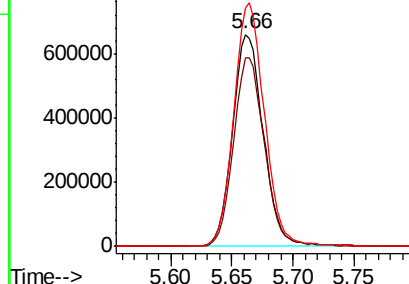
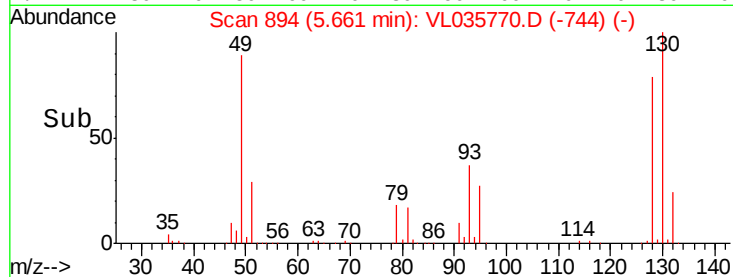
130 115.1 54.9 164.7



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#4

Chloromethane

Concen: 0.039 ppbv

RT: 3.13 min Scan# 106

Delta R.T. -0.01 min

Lab File: VL035770.D

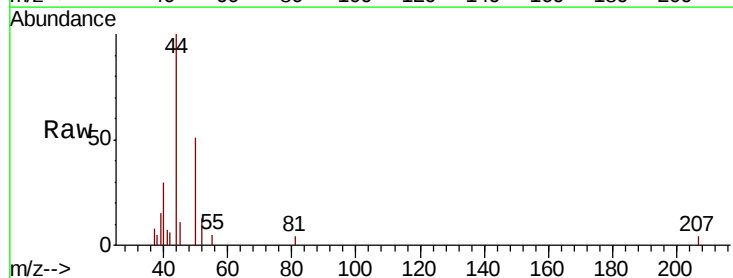
Acq: 12 Oct 2020 20:33

Tgt Ion: 50 Resp: 2606

Ion Ratio Lower Upper

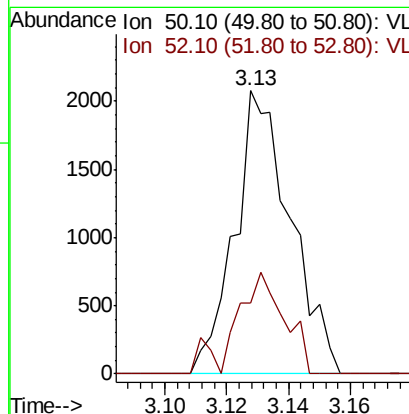
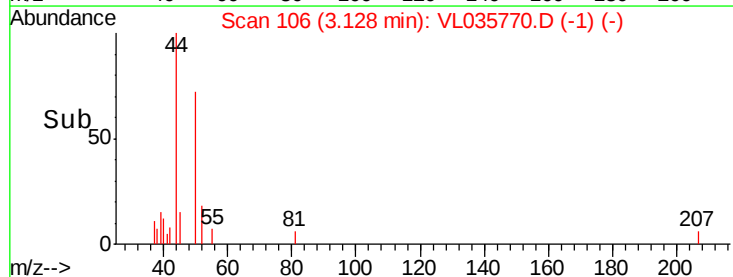
50 100

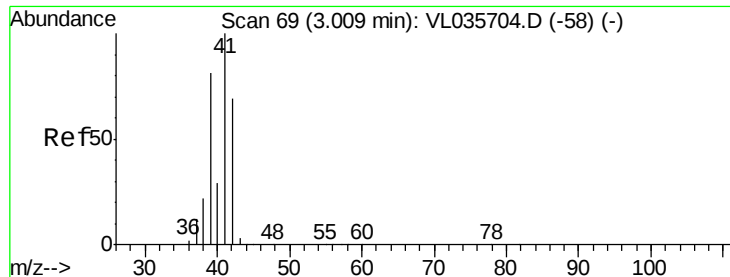
52 25.3 26.8 40.2#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 4.140 ppbv

RT: 3.00 min Scan# 66

Delta R.T. -0.01 min

Lab File: VL035770.D

Acq: 12 Oct 2020 20:33

Instrument :

MSVOA_L

ClientSampleId :

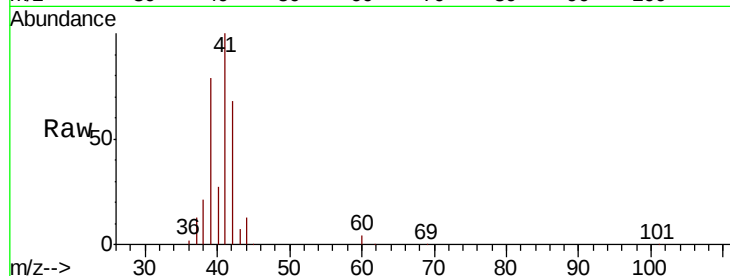
5DL

Tot Ion: 41 Resp: 187216

Ion Ratio Lower Upper

41 100

42 65.7 56.2 84.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

3.00

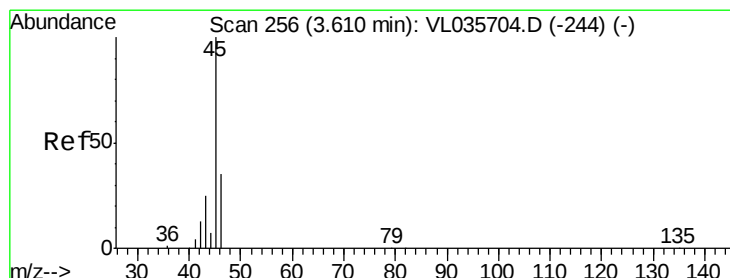
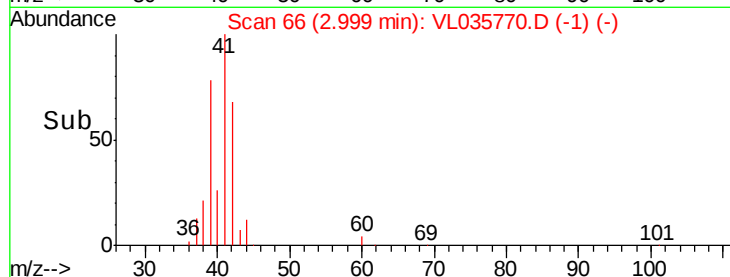
150000

100000

50000

0

Time-->



#13

Ethanol

Concen: 1.195 ppbv

RT: 3.61 min Scan# 255

Delta R.T. -0.00 min

Lab File: VL035770.D

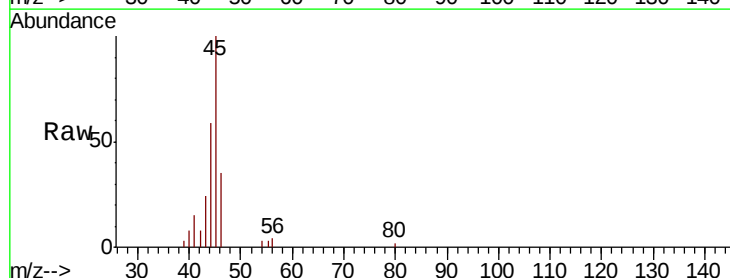
Acq: 12 Oct 2020 20:33

Tgt Ion: 45 Resp: 13329

Ion Ratio Lower Upper

45 100

46 33.2 14.7 58.7



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0

3.61

8000

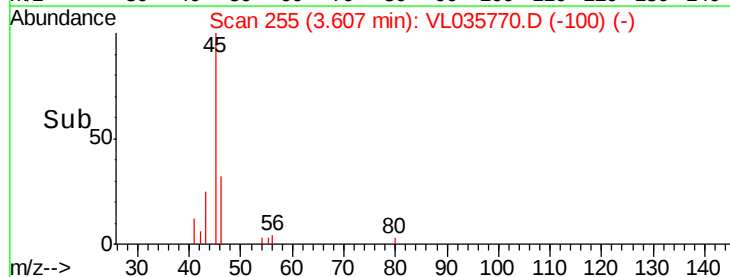
6000

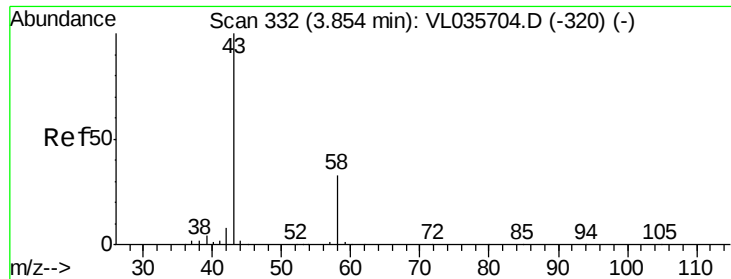
4000

2000

0

Time-->





#15

Acetone

Concen: 11.345 ppbv

RT: 3.84 min Scan# 328

Delta R.T. -0.01 min

Lab File: VL035770.D

Acq: 12 Oct 2020 20:33

Instrument :

MSVOA_L

ClientSampleId :

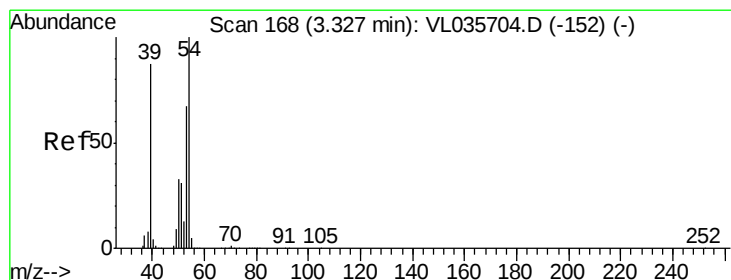
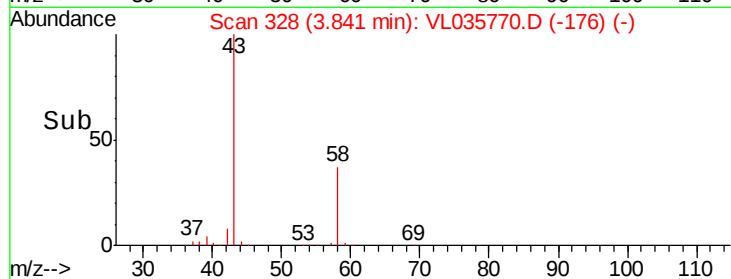
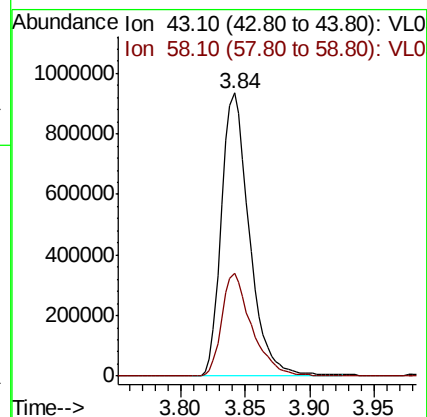
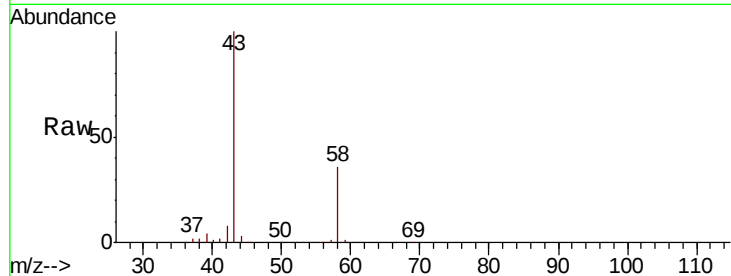
5DL

Tot Ion: 43 Resp: 1413355

Ion Ratio Lower Upper

43 100

58 39.1 27.3 40.9



#16

1,3-Butadiene

Concen: 3.009 ppbv

RT: 3.30 min Scan# 159

Delta R.T. -0.03 min

Lab File: VL035770.D

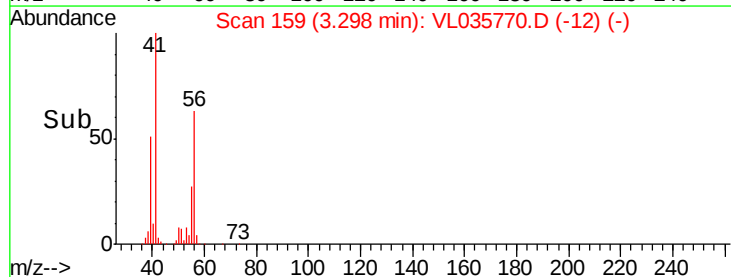
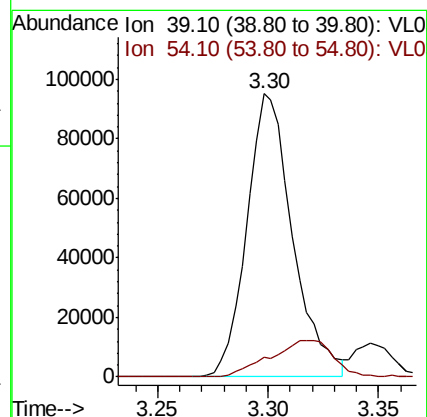
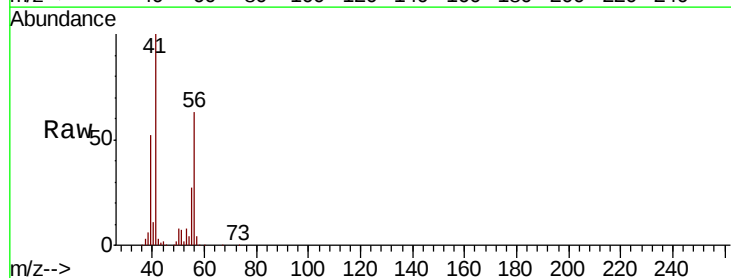
Acq: 12 Oct 2020 20:33

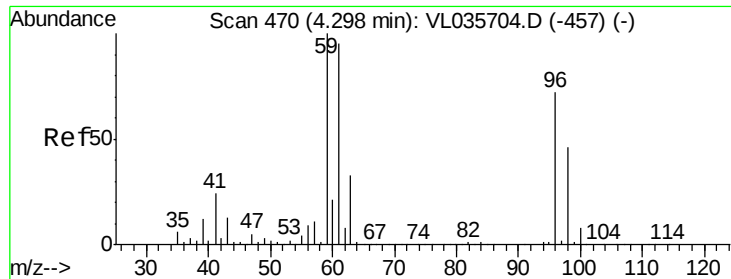
Tgt Ion: 39 Resp: 137165

Ion Ratio Lower Upper

39 100

54 18.1 87.4 131.0#



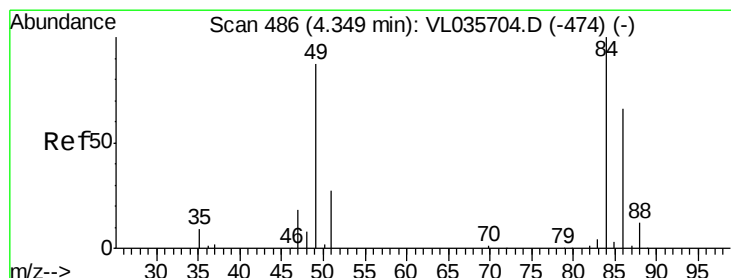
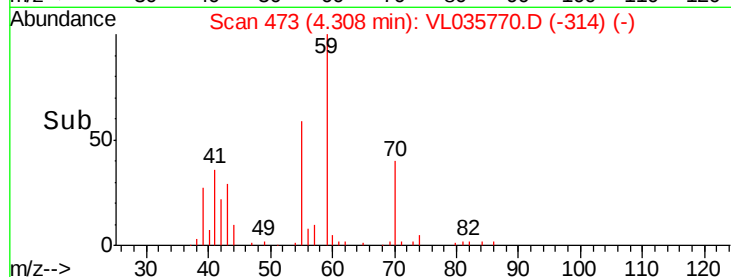
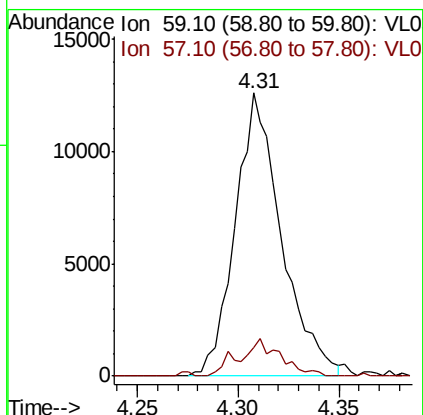
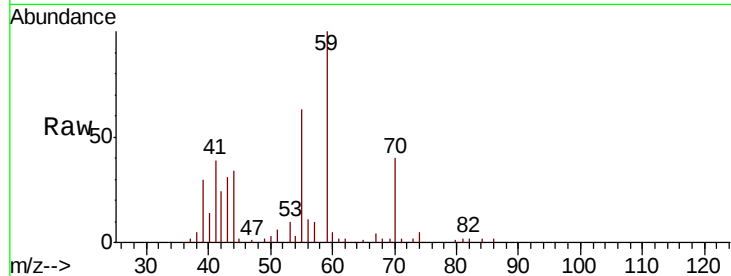


#17

tert-Butyl alcohol
 Concen: 0.149 ppbv
 RT: 4.31 min Scan# 473
 Delta R.T. 0.01 min
 Lab File: VL035770.D
 Acq: 12 Oct 2020 20:33

Instrument :
 MSVOA_L
 ClientSampled :
 5DL

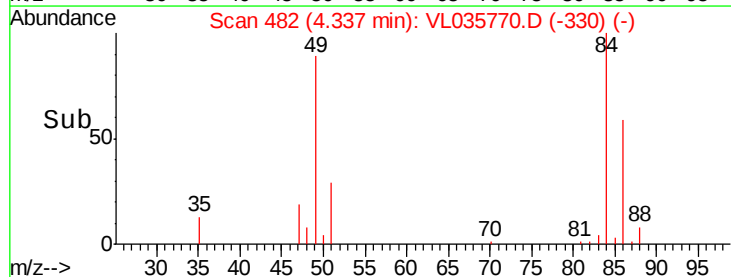
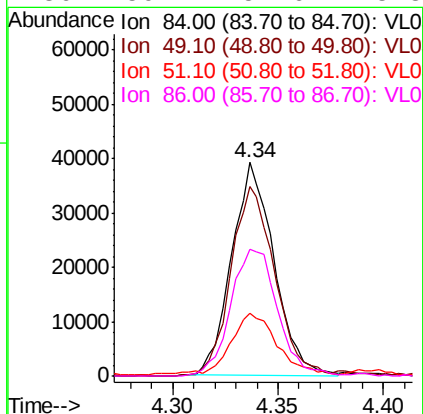
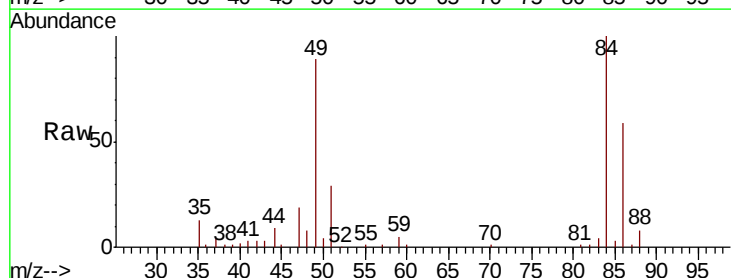
Tot Ion: 59 Resp: 20188
 Ion Ratio Lower Upper
 59 100
 57 12.2 8.5 12.7

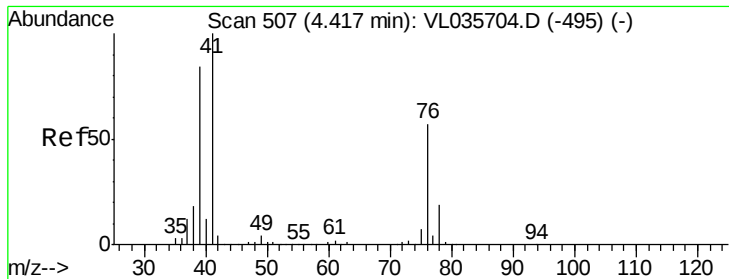


#20

Methylene Chloride
 Concen: 0.594 ppbv
 RT: 4.34 min Scan# 482
 Delta R.T. -0.01 min
 Lab File: VL035770.D
 Acq: 12 Oct 2020 20:33

Tgt Ion: 84 Resp: 54317
 Ion Ratio Lower Upper
 84 100
 49 89.1 69.8 104.6
 51 28.6 21.8 32.8
 86 59.1 52.6 78.8





#21

Allvl Chloride

Concen: 0.043 ppbv

RT: 4.39 min Scan# 500

Delta R.T. -0.02 min

Lab File: VL035770.D

Acq: 12 Oct 2020 20:33

Instrument :

MSVOA_L

ClientSampleId :

5DL

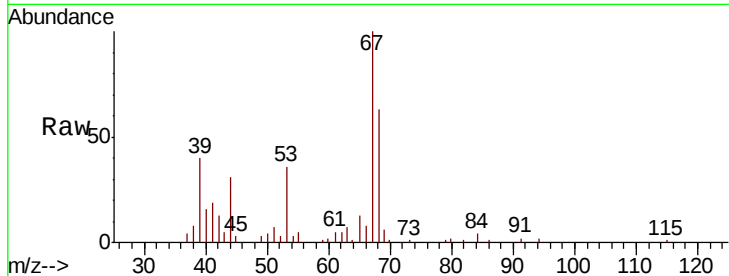
Tot Ion: 41 Resp: 2594

Ion Ratio Lower Upper

41 100

76 0.0 44.8 67.2#

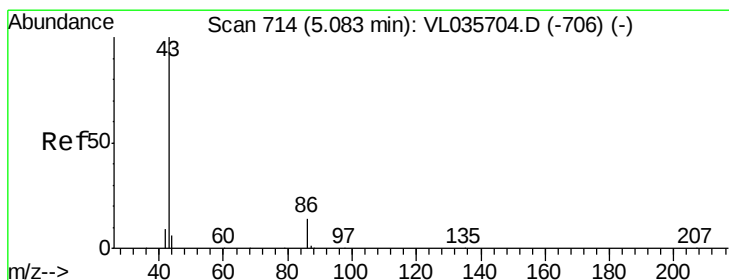
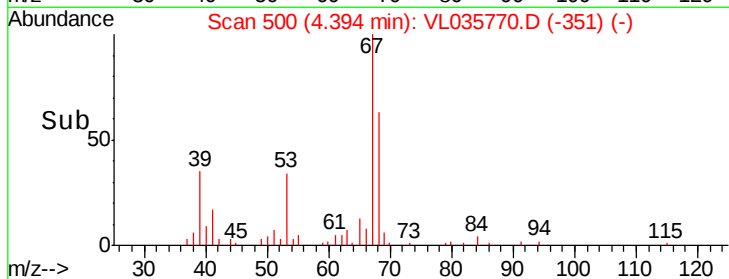
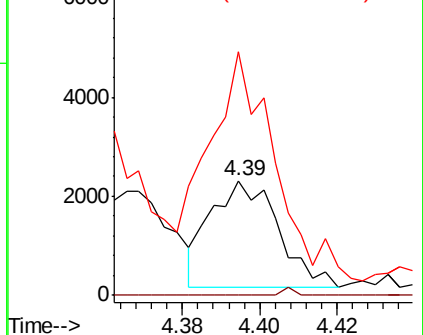
39 361.1 68.4 102.6#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0



#23

Vinyl Acetate

Concen: 0.127 ppbv

RT: 5.06 min Scan# 707

Delta R.T. -0.02 min

Lab File: VL035770.D

Acq: 12 Oct 2020 20:33

Tgt Ion: 43 Resp: 19447

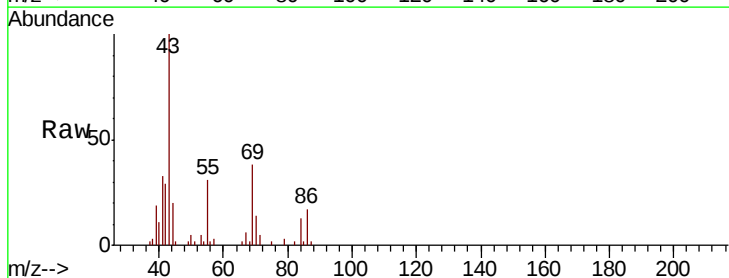
Ion Ratio Lower Upper

43 100

86 17.1 9.7 14.5#

42 29.1 7.9 11.9#

44 0.0 4.8 7.2#

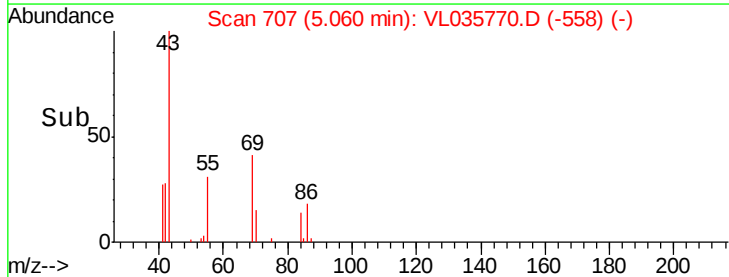
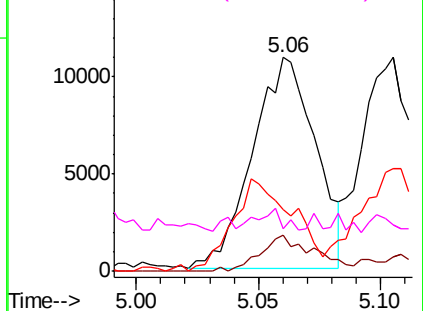


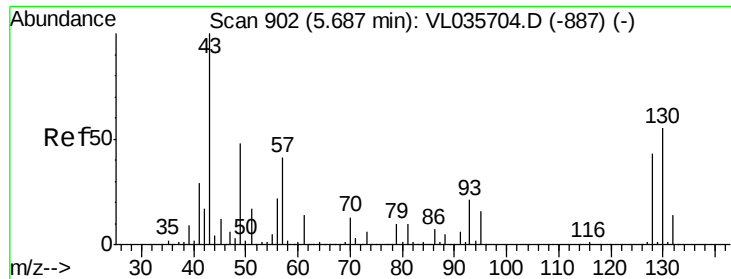
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0

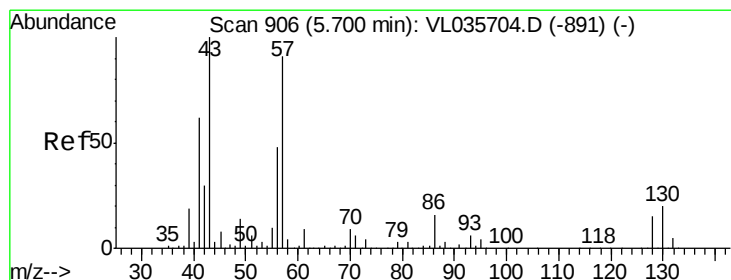
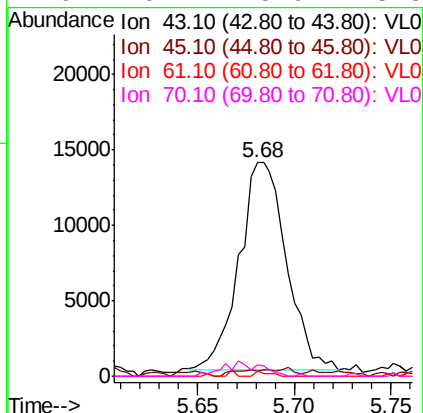
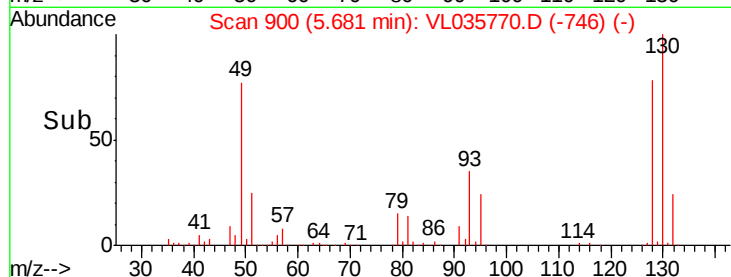
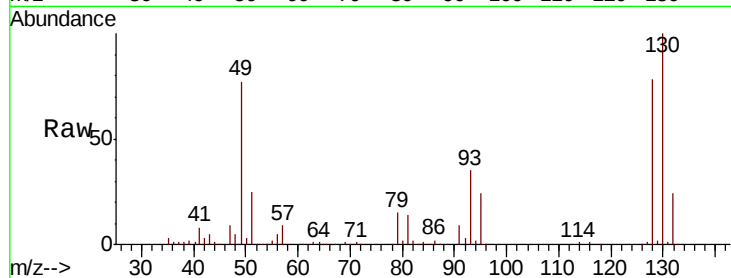




#25
Ethyl Acetate
Concen: 0.104 ppbv
RT: 5.68 min Scan# 900
Delta R.T. -0.01 min
Lab File: VL035770.D
Acq: 12 Oct 2020 20:33

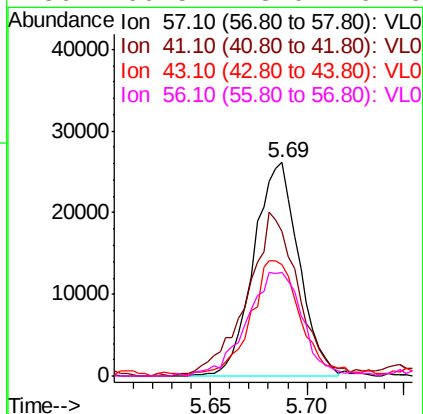
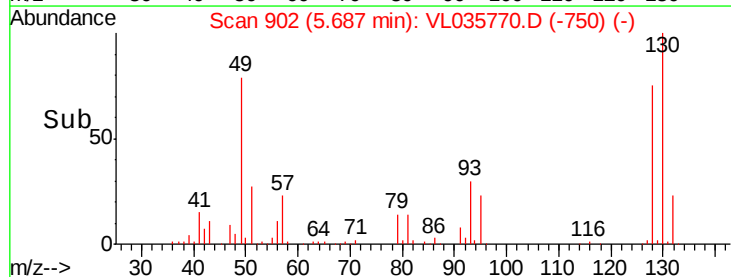
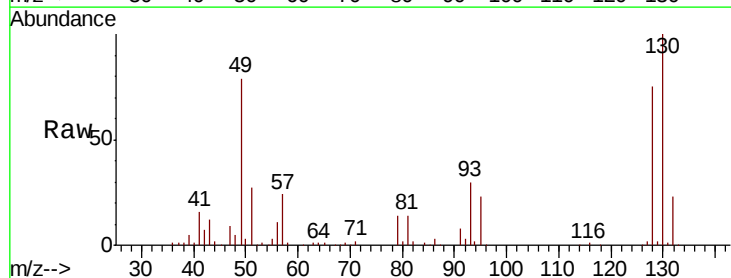
Instrument :
MSVOA_L
ClientSampleId :
5DL

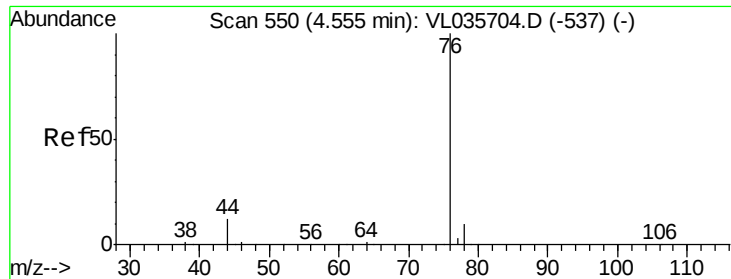
Tot Ion: 43 Resp: 23263
Ion Ratio Lower Upper
43 100
45 3.8 8.6 12.8#
61 1.1 10.4 15.6#
70 6.1 8.9 13.3#



#26
Hexane
Concen: 0.346 ppbv
RT: 5.69 min Scan# 902
Delta R.T. -0.01 min
Lab File: VL035770.D
Acq: 12 Oct 2020 20:33

Tgt Ion: 57 Resp: 42489
Ion Ratio Lower Upper
57 100
41 86.5 57.9 86.9
43 57.8 143.8 215.6#
56 60.5 43.0 64.6





#27

Carbon Disulfide

Concen: 0.135 ppbv

RT: 4.55 min Scan# 547

Delta R.T. -0.01 min

Lab File: VL035770.D

Acq: 12 Oct 2020 20:33

Instrument :

MSVOA_L

ClientSampleId :

5DL

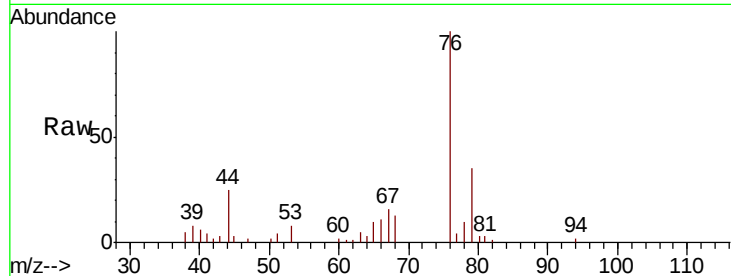
Tot Ion: 76 Resp: 24783

Ion Ratio Lower Upper

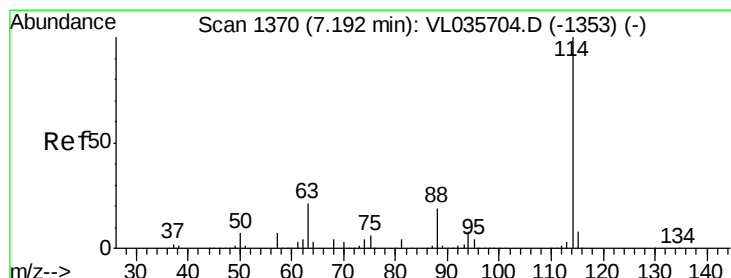
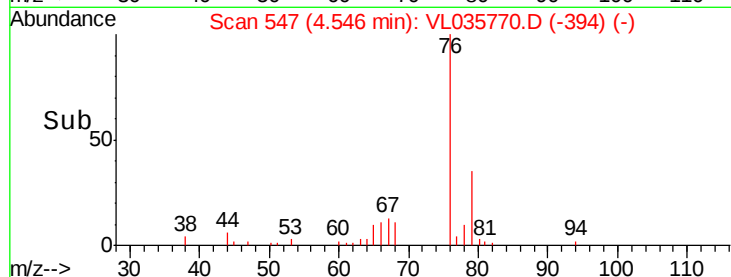
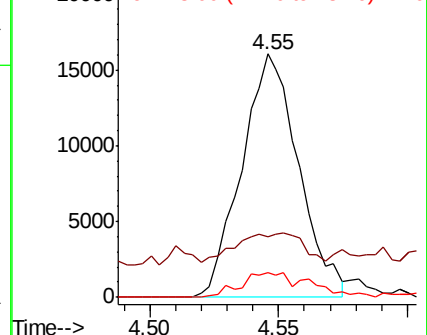
76 100

44 23.0 9.7 14.5#

78 14.6 7.8 11.8#



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1365

Delta R.T. -0.02 min

Lab File: VL035770.D

Acq: 12 Oct 2020 20:33

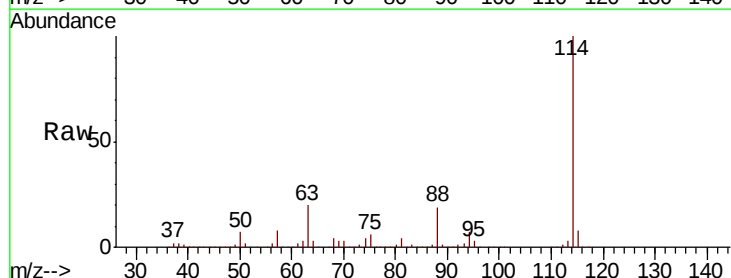
Tgt Ion: 114 Resp: 4844226

Ion Ratio Lower Upper

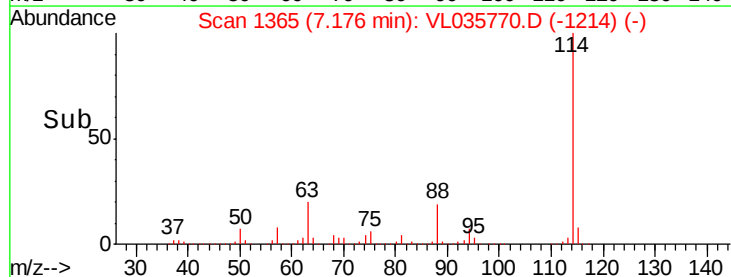
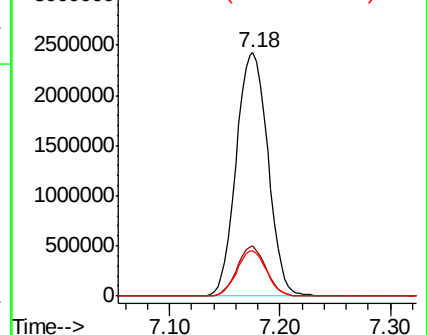
114 100

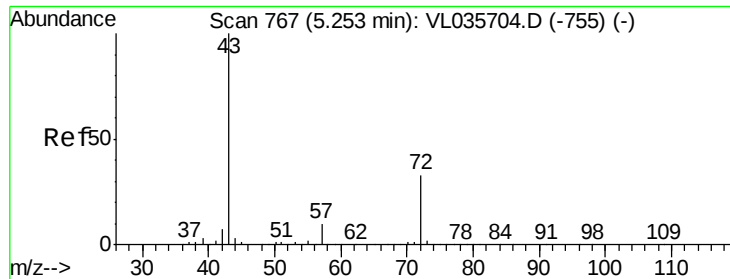
63 18.9 16.1 24.1

88 17.4 14.1 21.1



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

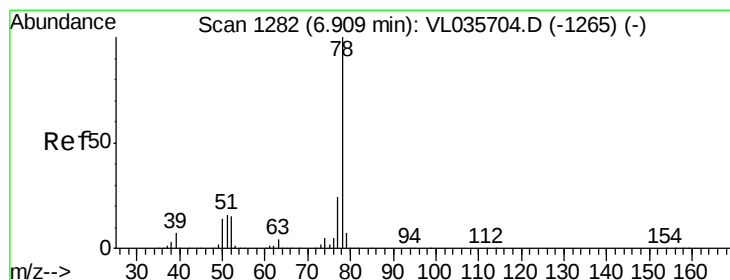
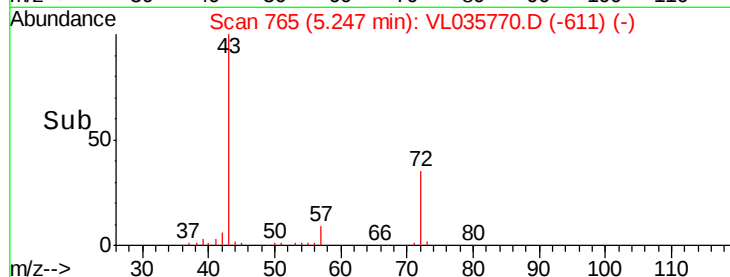
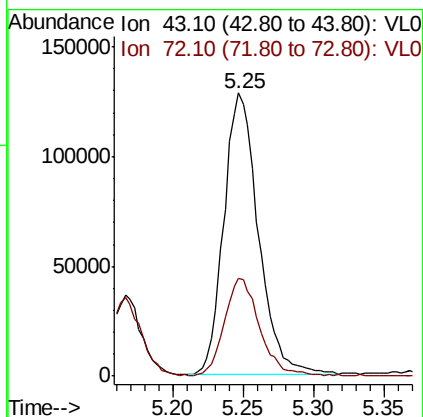
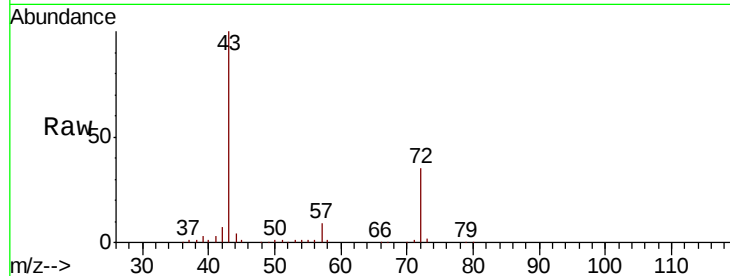




#34
2-Butanone
Concen: 1.368 ppbv
RT: 5.25 min Scan# 765
Delta R.T. -0.01 min
Lab File: VL035770.D
Acq: 12 Oct 2020 20:33

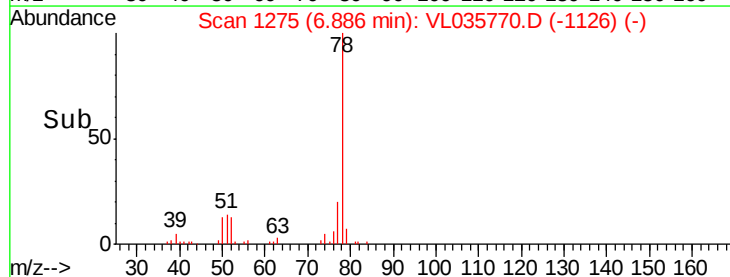
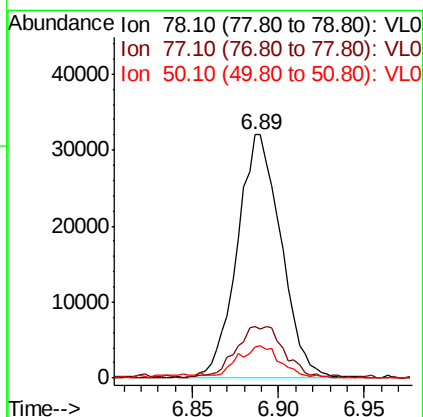
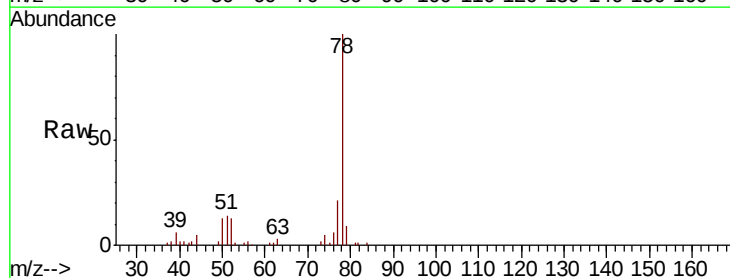
Instrument :
MSVOA_L
ClientSampled :
5DL

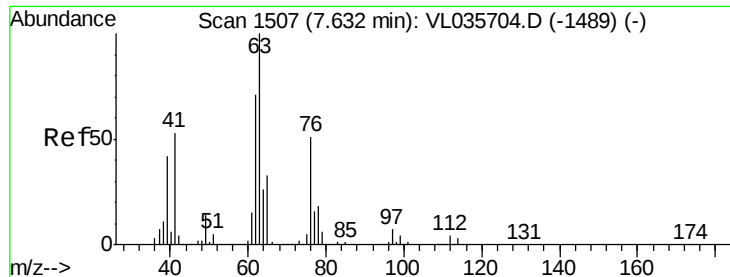
Tot Ion: 43 Resp: 219198
Ion Ratio Lower Upper
43 100
72 36.3 26.1 39.1



#36
Benzene
Concen: 0.180 ppbv
RT: 6.89 min Scan# 1275
Delta R.T. -0.02 min
Lab File: VL035770.D
Acq: 12 Oct 2020 20:33

Tgt Ion: 78 Resp: 56718
Ion Ratio Lower Upper
78 100
77 20.6 19.3 28.9
50 12.9 11.6 17.4





#39

1,2-Dichloropropane

Concen: 7.966 ppbv

RT: 7.18 min Scan# 1365

Delta R.T. -0.46 min

Lab File: VL035770.D

Acq: 12 Oct 2020 20:33

Instrument :

MSVOA_L

ClientSampleId :

5DL

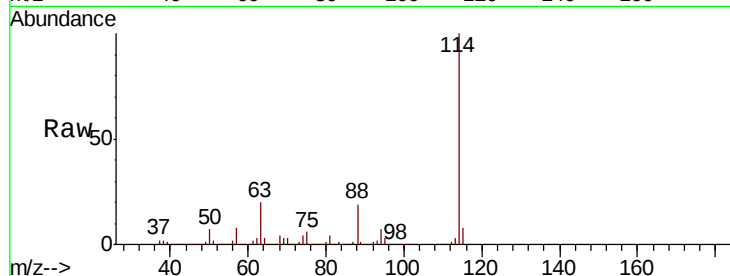
Tot Ion: 63 Resp: 911397

Ion Ratio Lower Upper

63 100

41 0.0 42.6 63.8#

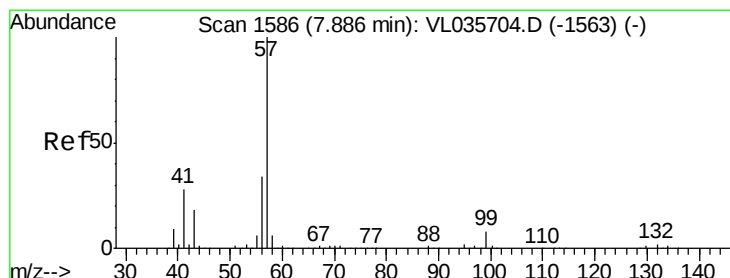
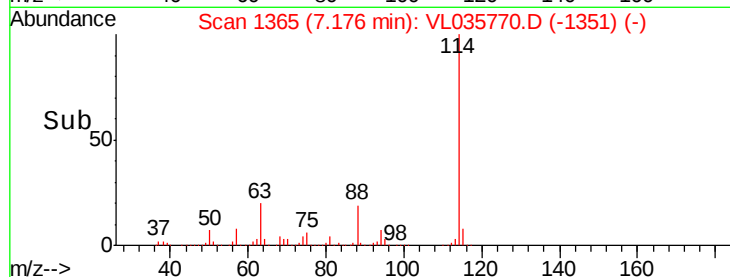
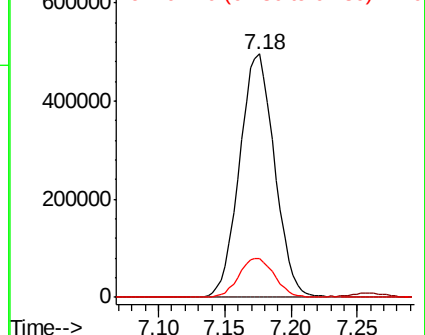
62 15.7 56.5 84.7#



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: 0.043 ppbv

RT: 7.87 min Scan# 1581

Delta R.T. -0.02 min

Lab File: VL035770.D

Acq: 12 Oct 2020 20:33

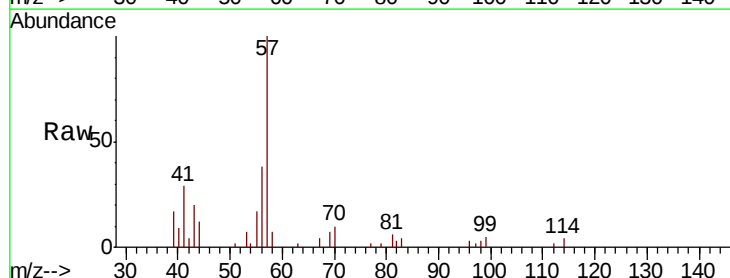
Tgt Ion: 57 Resp: 19553

Ion Ratio Lower Upper

57 100

41 46.5 21.2 31.8#

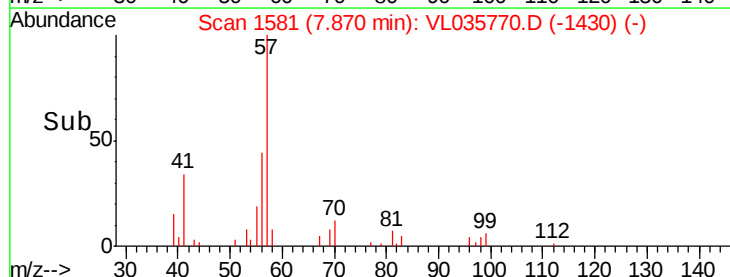
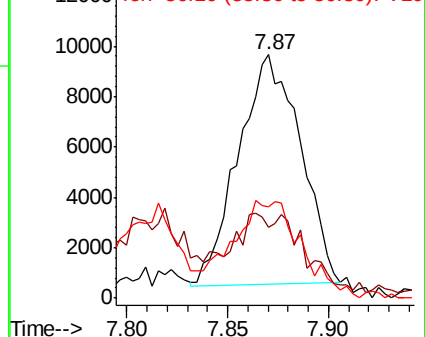
56 50.0 25.8 38.8#

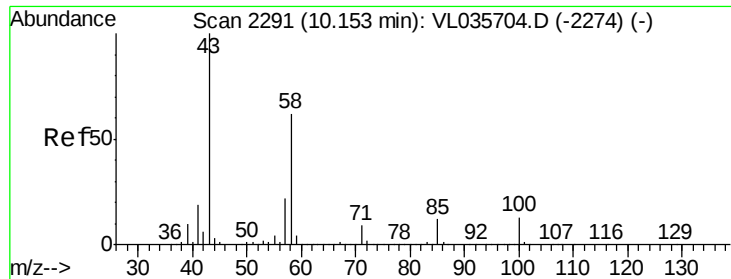


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0

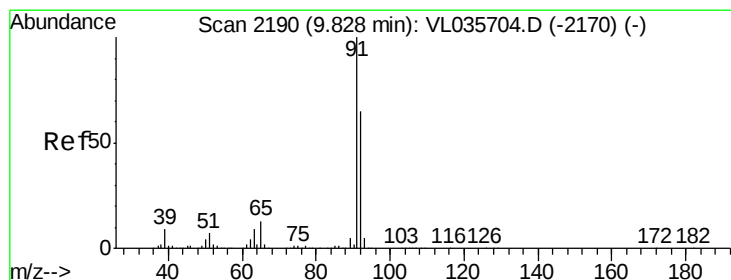
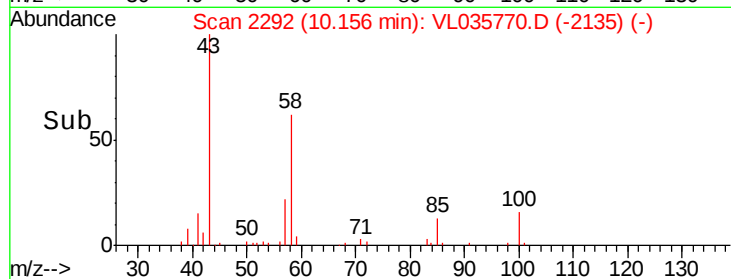
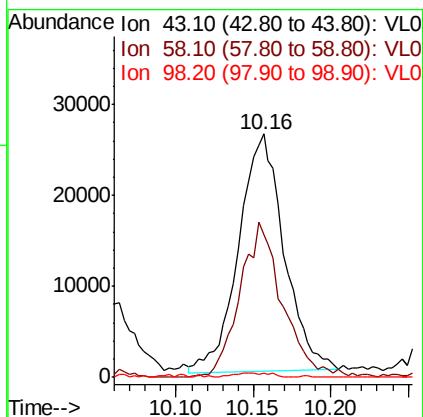
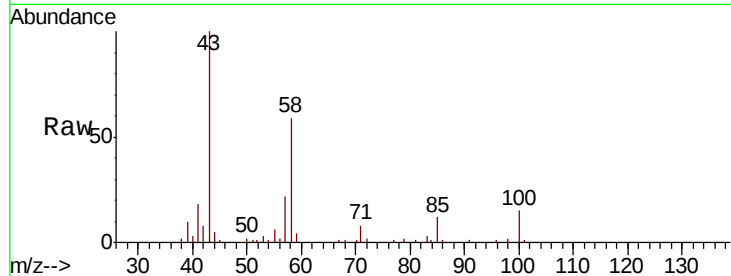




#51
 2-Hexanone
 Concen: 0.283 ppbv
 RT: 10.16 min Scan# 2292
 Delta R.T. 0.00 min
 Lab File: VL035770.D
 Acq: 12 Oct 2020 20:33

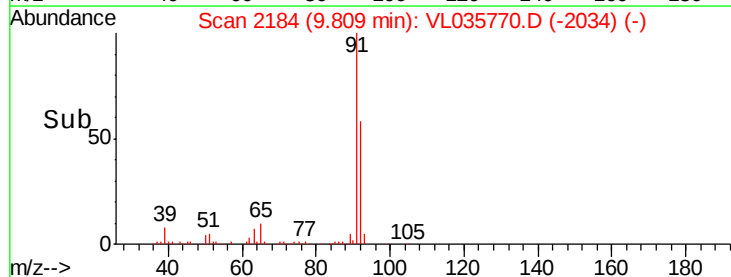
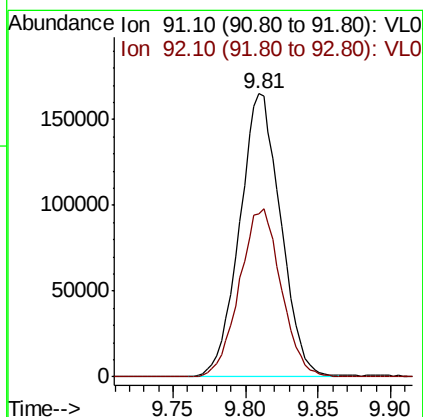
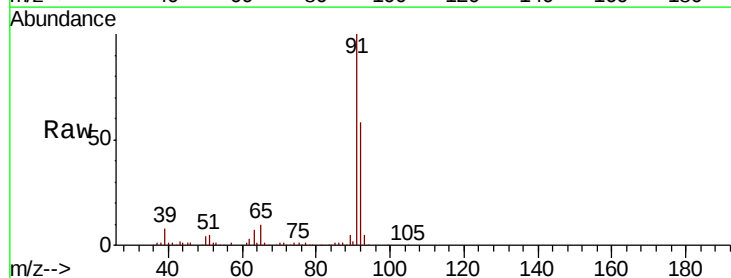
Instrument :
 MSVOA_L
 ClientSampleId :
 5DL

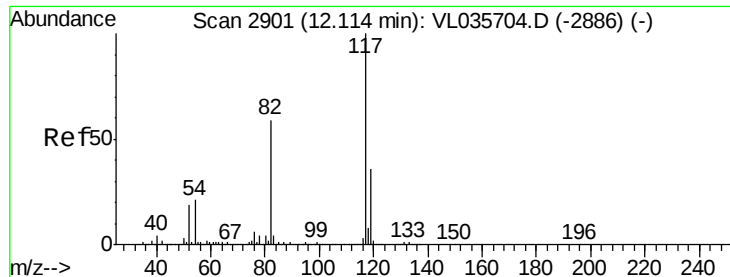
Tot Ion: 43 Resp: 53436
 Ion Ratio Lower Upper
 43 100
 58 61.7 48.7 73.1
 98 1.6 0.7 1.1#



#53
 Toluene
 Concen: 0.875 ppbv
 RT: 9.81 min Scan# 2184
 Delta R.T. -0.02 min
 Lab File: VL035770.D
 Acq: 12 Oct 2020 20:33

Tgt Ion: 91 Resp: 325529
 Ion Ratio Lower Upper
 91 100
 92 60.6 50.0 75.0

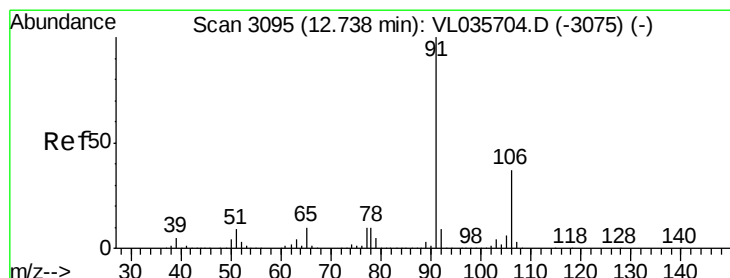
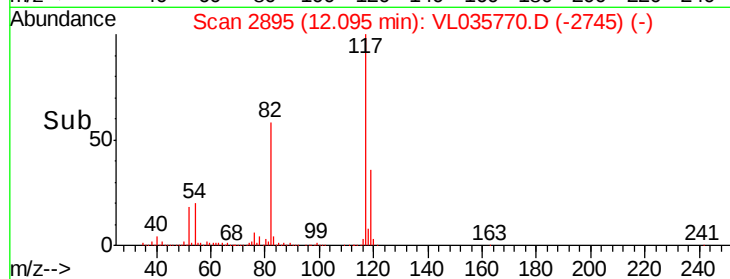
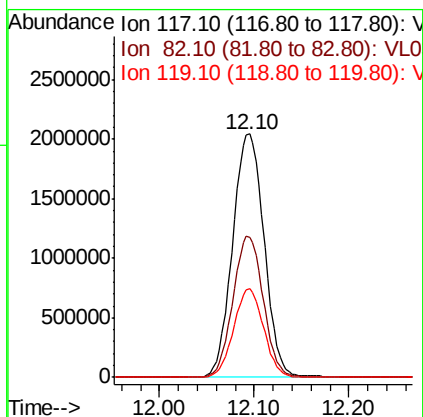
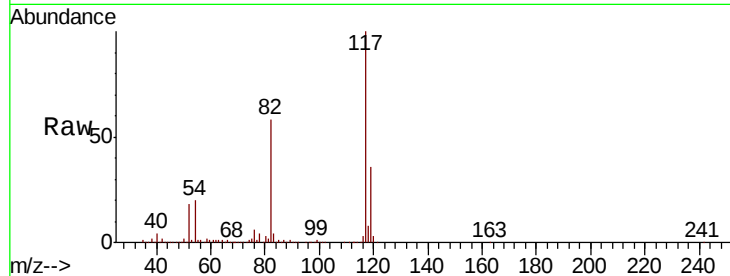




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2895
Delta R.T. -0.02 min
Lab File: VL035770.D
Acq: 12 Oct 2020 20:33

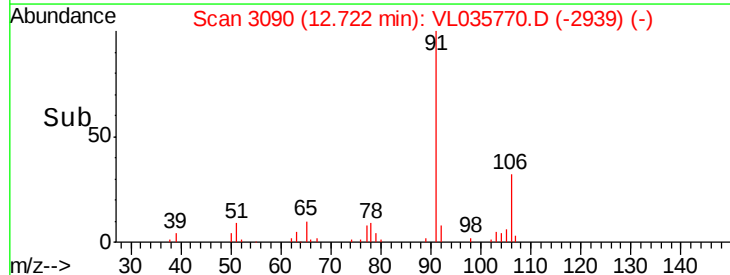
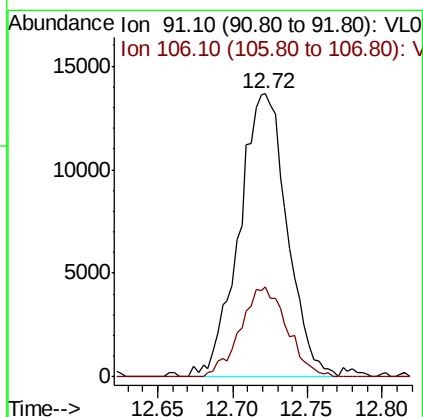
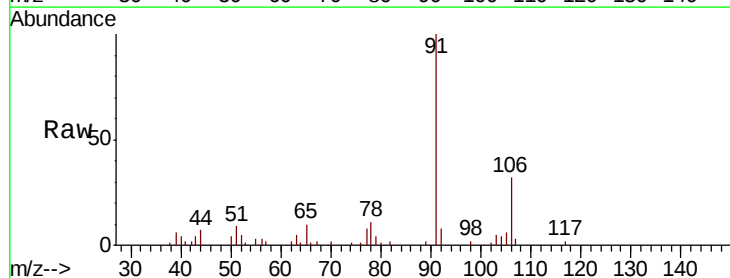
Instrument :
MSVOA_L
ClientSampled :
5DL

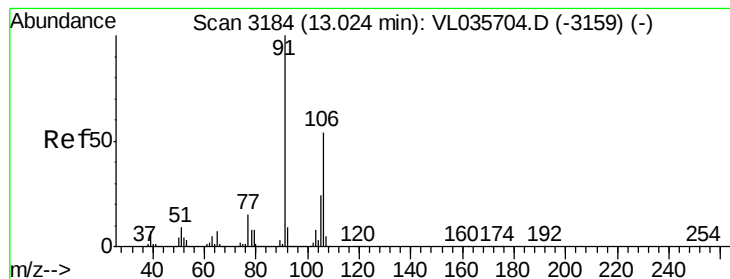
Tot Ion:117 Resp: 4732448
Ion Ratio Lower Upper
117 100
82 56.3 46.1 69.1
119 34.8 28.0 42.0



#58
Ethyl Benzene
Concen: 0.064 ppbv
RT: 12.72 min Scan# 3090
Delta R.T. -0.02 min
Lab File: VL035770.D
Acq: 12 Oct 2020 20:33

Tgt Ion: 91 Resp: 30581
Ion Ratio Lower Upper
91 100
106 31.8 29.7 44.5





#59

m/p-Xylene

Concen: 0.038 ppbv

RT: 13.01 min Scan# 3180

Delta R.T. -0.01 min

Lab File: VL035770.D

Acq: 12 Oct 2020 20:33

Instrument :

MSVOA_L

ClientSampled :

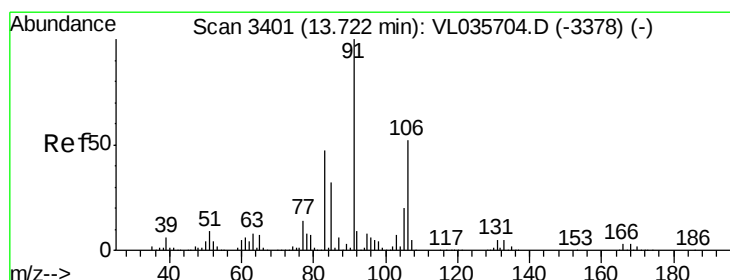
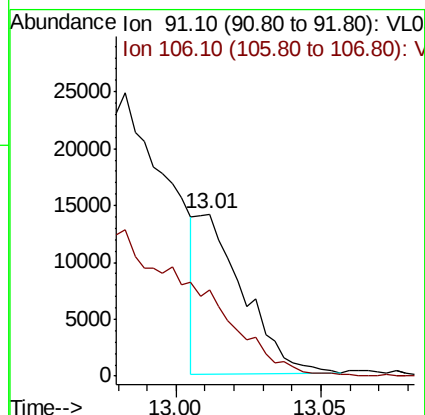
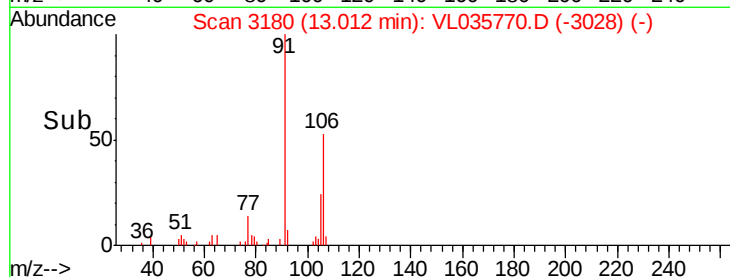
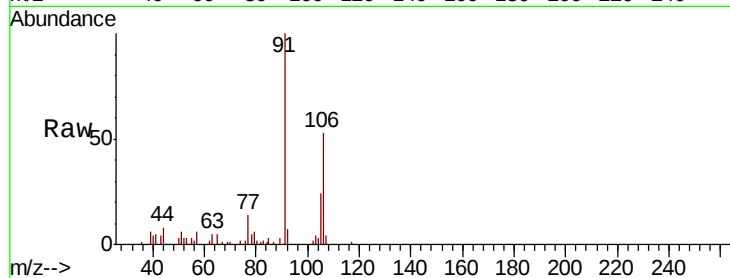
5DL

Tot Ion: 91 Resp: 15582

Ion Ratio Lower Upper

91 100

106 0.0 41.4 62.0#



#60

o-Xylene

Concen: 0.083 ppbv

RT: 13.70 min Scan# 3395

Delta R.T. -0.02 min

Lab File: VL035770.D

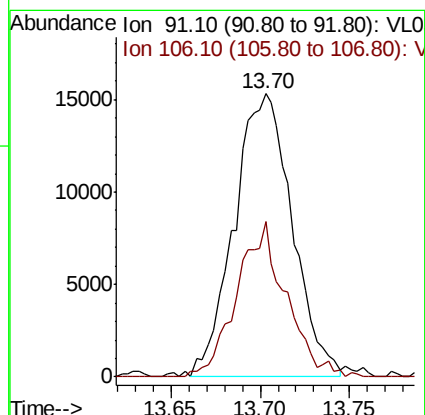
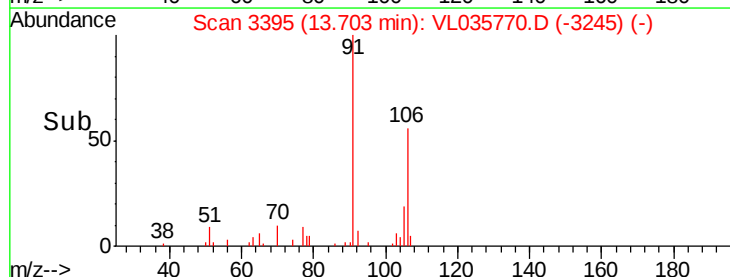
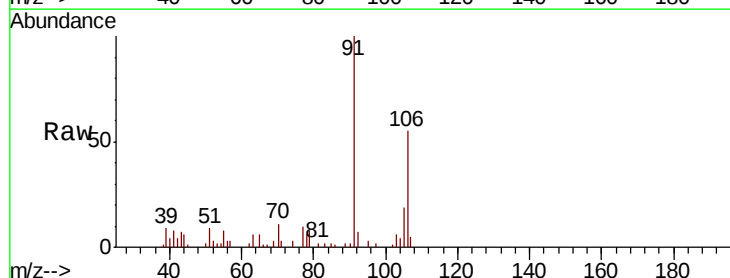
Acq: 12 Oct 2020 20:33

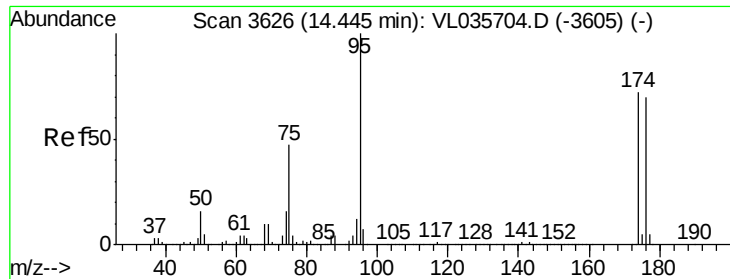
Tgt Ion: 91 Resp: 34792

Ion Ratio Lower Upper

91 100

106 46.3 25.0 75.0

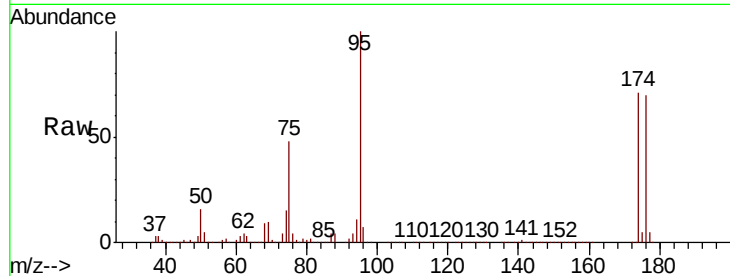




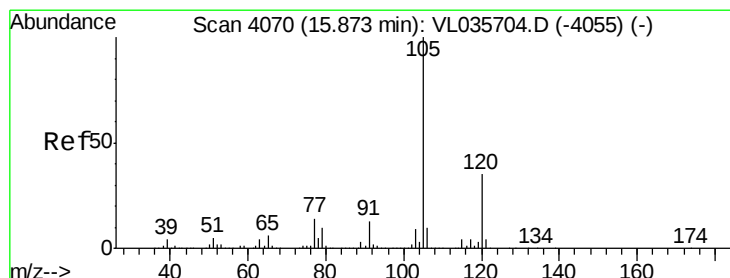
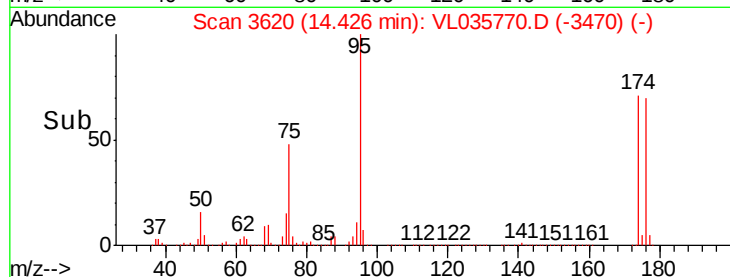
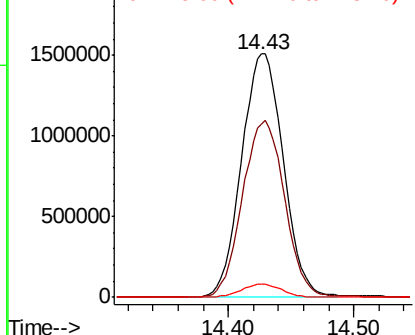
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.865 ppbv
 RT: 14.43 min Scan# 3620
 Delta R.T. -0.02 min
 Lab File: VL035770.D
 Acq: 12 Oct 2020 20:33

Instrument :
 MSVOA_L
 ClientSampleId :
 5DL

Tot Ion: 95 Resp: 3498208
 Ion Ratio Lower Upper
 95 100
 174 73.9 59.6 89.4
 175 5.4 4.2 6.4

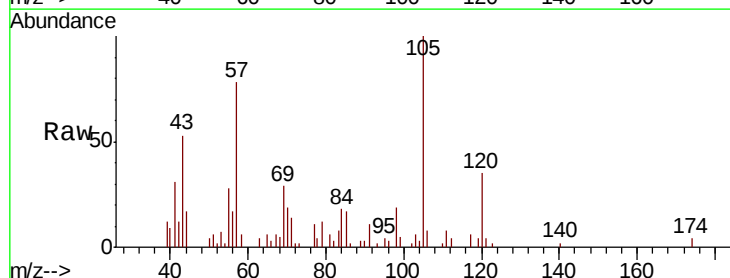


Abundance Ion 95.10 (94.80 to 95.80): VL0
 Ion 174.00 (173.70 to 174.70): V
 Ion 175.00 (174.70 to 175.70): V

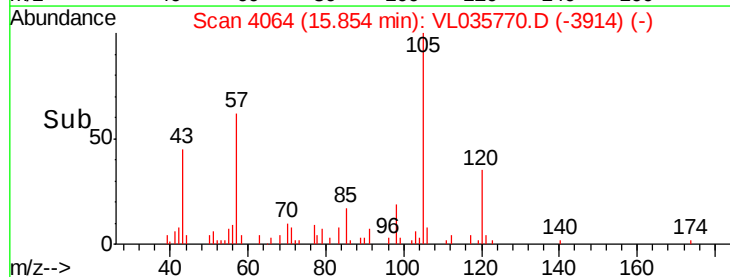
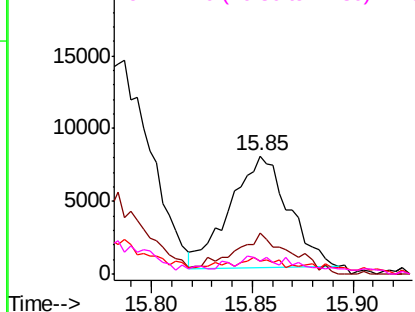


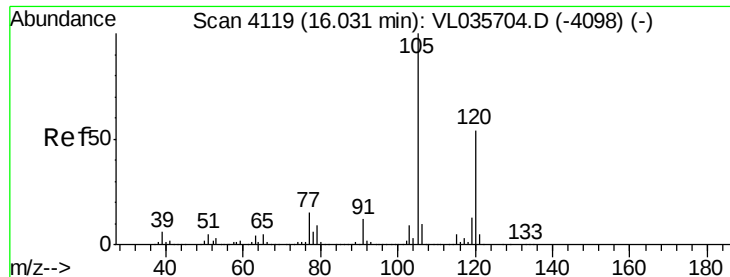
#72
 4-Ethyltoluene
 Concen: 0.031 ppbv
 RT: 15.85 min Scan# 4064
 Delta R.T. -0.02 min
 Lab File: VL035770.D
 Acq: 12 Oct 2020 20:33

Tgt Ion: 105 Resp: 15424
 Ion Ratio Lower Upper
 105 100
 120 36.5 26.5 39.7
 91 22.3 10.2 15.2#
 77 20.6 10.3 15.5#



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

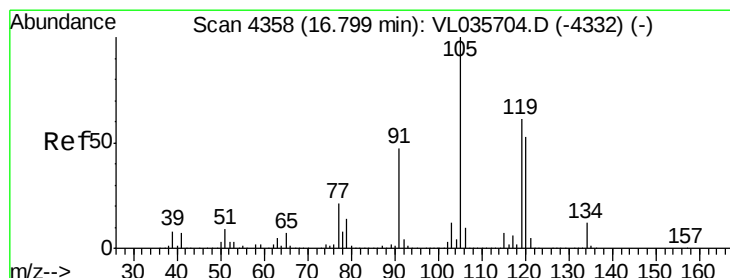
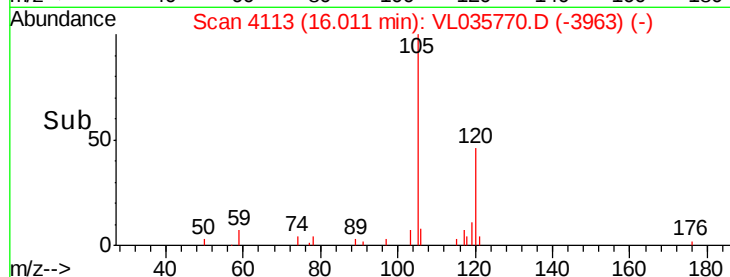
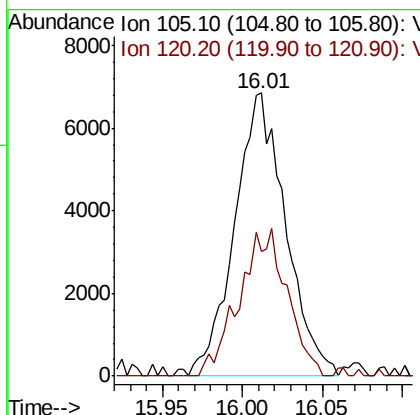
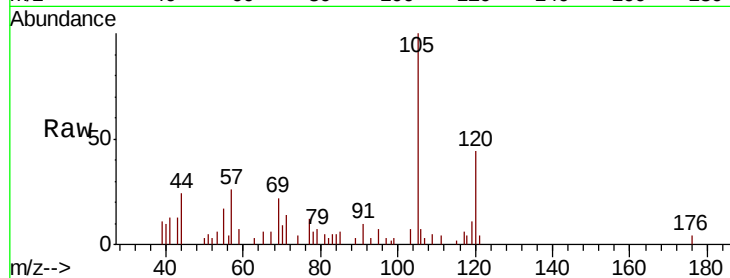




#73
 1,3,5-Trimethylbenzene
 Concen: 0.032 ppbv
 RT: 16.01 min Scan# 4113
 Delta R.T. -0.02 min
 Lab File: VL035770.D
 Acq: 12 Oct 2020 20:33

Instrument :
 MSVOA_L
 ClientSampleId :
 5DL

Tot Ion:105 Resp: 14966
 Ion Ratio Lower Upper
 105 100
 120 44.2 43.0 64.4



#74
 1,2,4-Trimethylbenzene
 Concen: 0.053 ppbv
 RT: 16.77 min Scan# 4350
 Delta R.T. -0.03 min
 Lab File: VL035770.D
 Acq: 12 Oct 2020 20:33

Tgt Ion:105 Resp: 28075
 Ion Ratio Lower Upper
 105 100
 120 46.3 42.5 63.7
 91 7.4 37.7 56.5#
 77 6.0 16.7 25.1#

