

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101220\
 Data File : VL035766.D
 Acq On : 12 Oct 2020 17:58
 Operator : SY/AP
 Sample : L4347-04
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 4

Quant Time: Oct 13 00:05:16 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed 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	5.68	49	1021751	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	4288638	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	4325516	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	3642470	11.24	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	112.40%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.04	85	30758	0.183	ppbv	93
3) Chlorodifluoromethane	2.95	51	84301	0.767	ppbv #	76
4) Chloromethane	3.13	50	49668	0.841	ppbv	99
5) Vinyl Chloride	3.25	62	2530	0.036	ppbv #	73
6) Bromomethane	3.47	94	2283	0.039	ppbv	95
7) Chloroethane	3.56	64	1820	0.071	ppbv #	80
9) Propene	3.00	41	5939577	148.821	ppbv	92
10) Heptane	8.13	43	1302985	11.711	ppbv	99
11) Trichlorofluoromethane	3.95	101	52453	0.219	ppbv	95
12) 1,1,2-Trichlorotrifluoroet	4.48	101	11753	0.066	ppbv	97
13) Ethanol	3.61	45	711181	72.258	ppbv	99
15) Acetone	3.85	43	16224406	147.571	ppbv #	41
16) 1,3-Butadiene	3.30	39	5489471	136.480	ppbv #	21
17) tert-Butyl alcohol	4.30	59	558167	4.661	ppbv #	72
19) Isopropyl Alcohol	3.97	45	453854	7.589	ppbv #	89
20) Methylene Chloride	4.36	84	1350544	16.723	ppbv #	95
21) Allyl Chloride	4.40	41	156969	2.946	ppbv #	1
23) Vinyl Acetate	5.07	43	1061579	7.883	ppbv #	1
24) 1,1-Dichloroethane	5.05	63	10291	0.070	ppbv #	84
25) Ethyl Acetate	5.69	43	2047907	10.352	ppbv #	78
26) Hexane	5.69	57	3322910	30.652	ppbv #	47
27) Carbon Disulfide	4.55	76	5049398	31.250	ppbv	96
28) Methyl tert-Butyl Ether	5.04	73	6036	0.035	ppbv #	1
30) Cyclohexane	7.14	84	769881	7.198	ppbv #	75
34) 2-Butanone	5.25	43	6586299	46.432	ppbv #	88
36) Benzene	6.90	78	4677991	16.740	ppbv	98
37) 1,2-Dichloroethane	6.32	62	32444	0.223	ppbv #	94
39) 1,2-Dichloropropane	7.19	63	859707	8.488	ppbv #	31
41) Tetrahydrofuran	6.06	42	13752	0.192	ppbv #	54
42) Bromodichloromethane	7.81	83	156745	0.668	ppbv #	25
43) Methyl Methacrylate	8.07	69	290778	2.616	ppbv #	51
44) 2,2,4-Trimethylpentane	7.88	57	1589657	3.964	ppbv #	76
50) 4-Methyl-2-Pentanone	8.75	43	316090	1.526	ppbv	97
51) 2-Hexanone	10.14	43	3666457	21.964	ppbv #	97
52) Tetrachloroethene	11.24	164	30288	0.225	ppbv	90
53) Toluene	9.82	91	7420930	22.520	ppbv	94
58) Ethyl Benzene	12.73	91	1739358	4.006	ppbv	94
59) m/p-Xylene	12.98	91	4451475	11.741	ppbv	99
60) o-Xylene	13.71	91	1664808	4.341	ppbv	98
61) Styrene	13.55	104	136420	0.514	ppbv	94
62) Isopropylbenzene	14.68	105	215223	0.362	ppbv	93

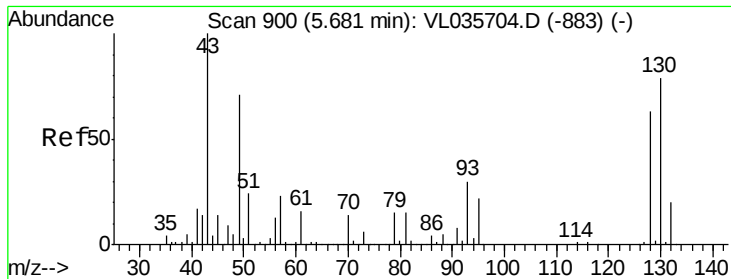
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101220\
 Data File : VL035766.D
 Acq On : 12 Oct 2020 17:58
 Operator : SY/AP
 Sample : L4347-04
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 4

Quant Time: Oct 13 00:05:16 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)
64) n-propylbenzene	15.58	120	154504	0.887	ppbv #	64
65) tert-Butylbenzene	16.79	119	224651	0.415	ppbv #	75
67) sec-Butylbenzene	17.33	105	106528	0.143	ppbv	94
69) p-Isopropyltoluene	17.69	119	88780	0.146	ppbv #	89
71) 2-Chlorotoluene	15.34	91	249463	0.575	ppbv	66
72) 4-Ethyltoluene	15.86	105	729798	1.606	ppbv	96
73) 1,3,5-Trimethylbenzene	16.02	105	555735	1.294	ppbv	94
74) 1,2,4-Trimethylbenzene	16.79	105	1885296	3.895	ppbv #	72
79) Naphthalene	22.25	128	73930	0.160	ppbv	97
80) Naphthalene,2-methyl-	25.00	142	20021	0.184	ppbv #	77

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 900

Delta R.T. 0.00 min

Lab File: VL035766.D

Acq: 12 Oct 2020 17:58

Instrument :
MSVOA_L
ClientSampleId :
4

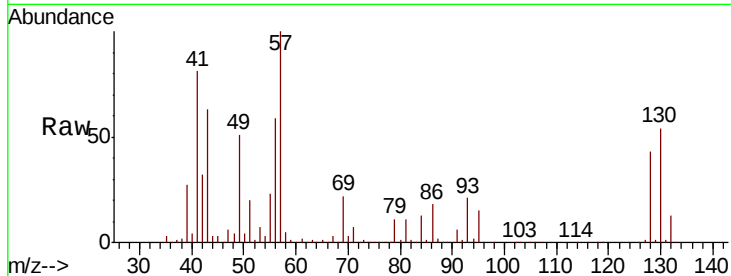
Tot Ion: 49 Resp: 1021751

Ion Ratio Lower Upper

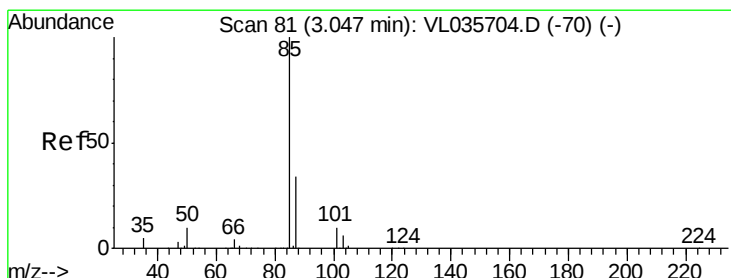
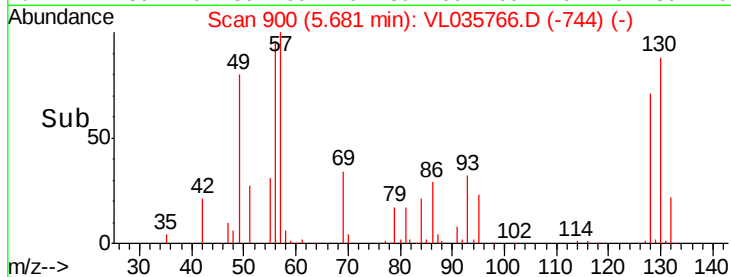
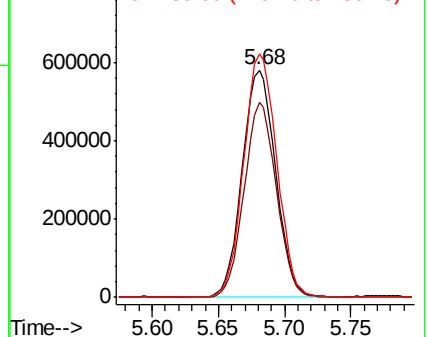
49 100

128 83.0 43.1 129.4

130 106.0 54.9 164.7



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



#2

Dichlorodifluoromethane

Concen: 0.183 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.01 min

Lab File: VL035766.D

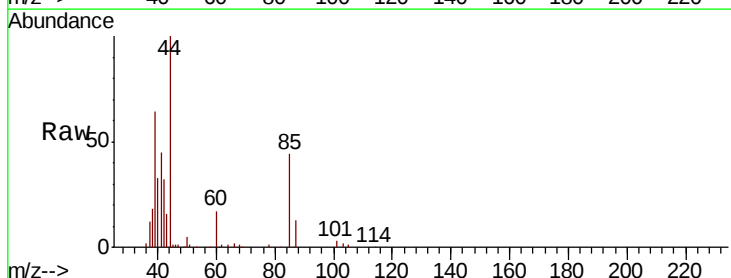
Acq: 12 Oct 2020 17:58

Tgt Ion: 85 Resp: 30758

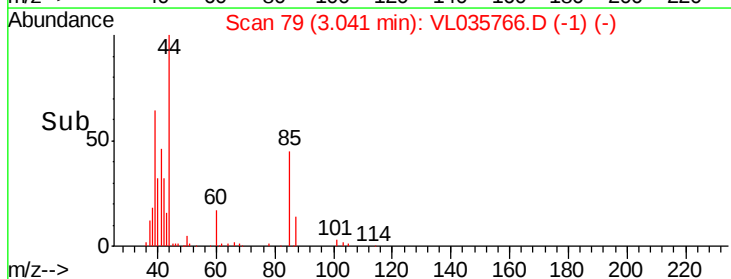
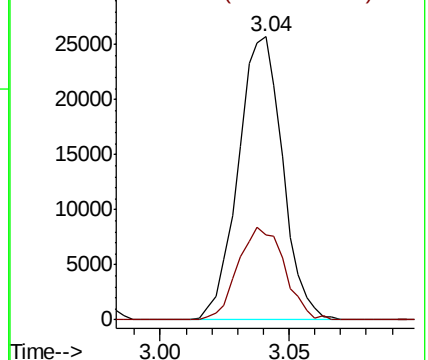
Ion Ratio Lower Upper

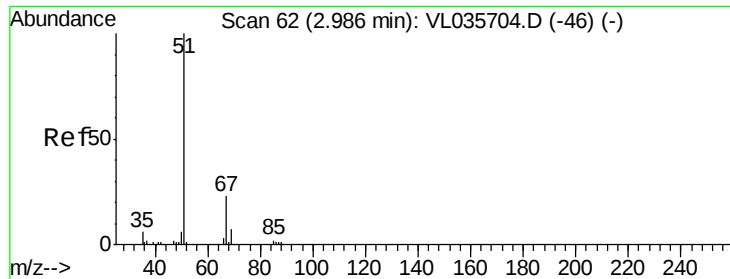
85 100

87 30.2 27.3 40.9



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.767 ppbv

RT: 2.95 min Scan# 51

Delta R.T. -0.04 min

Lab File: VL035766.D

Acq: 12 Oct 2020 17:58

Instrument :

MSVOA_L

ClientSampled :

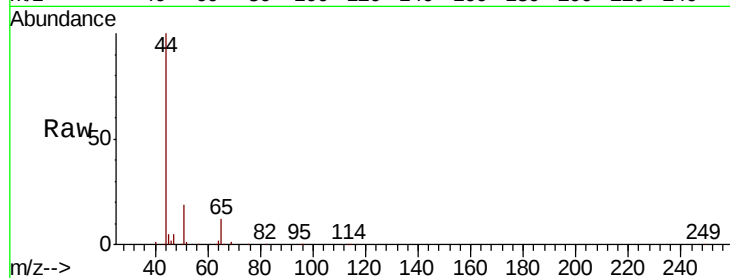
4

Tot Ion: 51 Resp: 84301

Ion Ratio Lower Upper

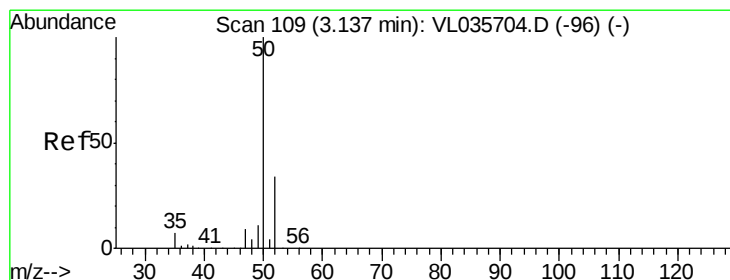
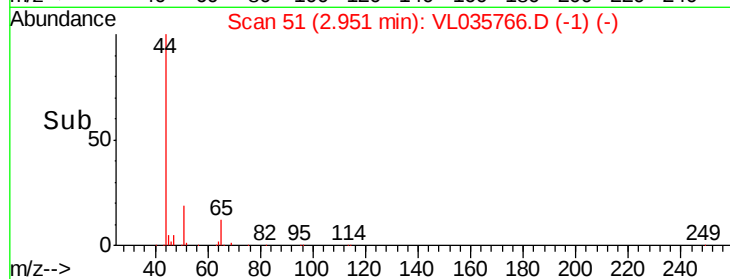
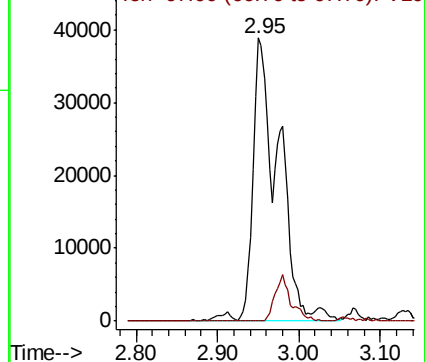
51 100

67 10.7 17.8 26.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.841 ppbv

RT: 3.13 min Scan# 107

Delta R.T. -0.01 min

Lab File: VL035766.D

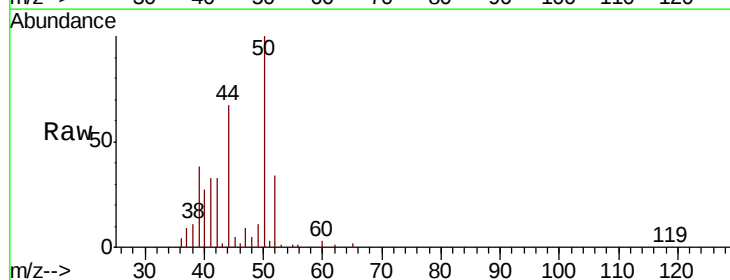
Acq: 12 Oct 2020 17:58

Tgt Ion: 50 Resp: 49668

Ion Ratio Lower Upper

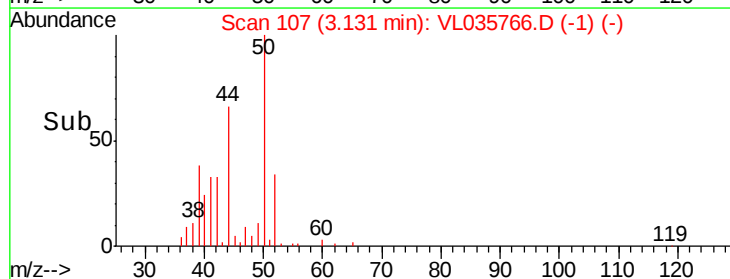
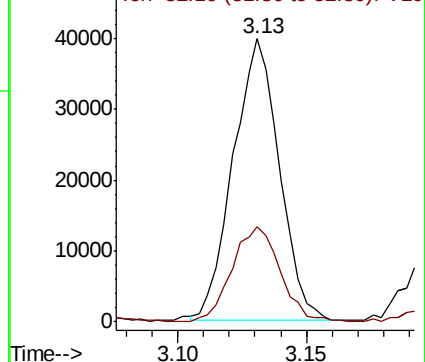
50 100

52 33.9 26.8 40.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.036 ppbv

RT: 3.25 min Scan# 144

Delta R.T. -0.01 min

Lab File: VL035766.D

Acq: 12 Oct 2020 17:58

Instrument :

MSVOA_L

ClientSampleId :

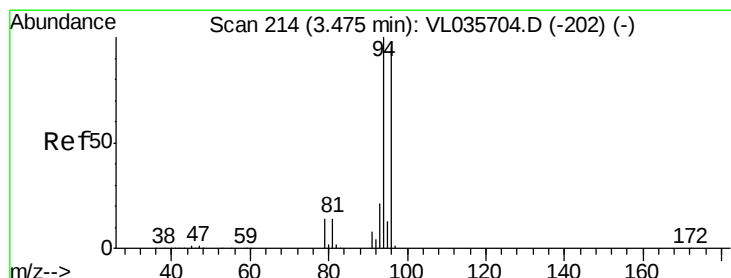
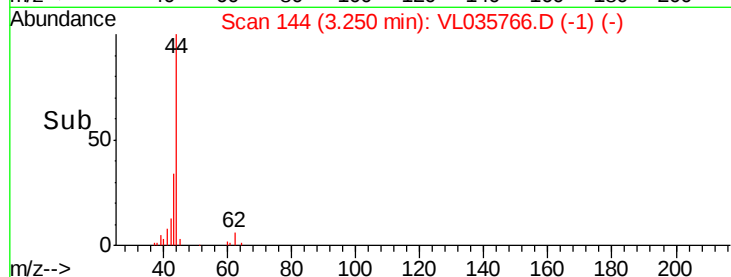
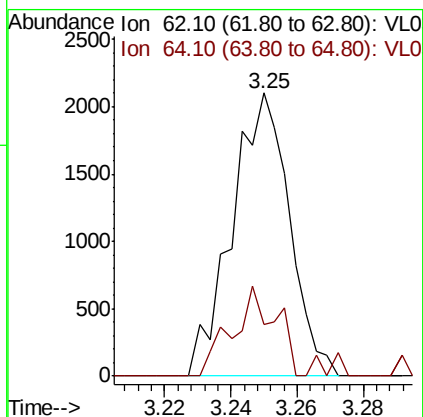
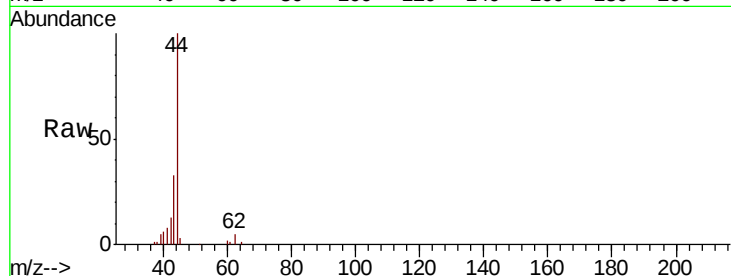
4

Tot Ion: 62 Resp: 2530

Ion Ratio Lower Upper

62 100

64 18.4 26.8 40.2#



#6

Bromomethane

Concen: 0.039 ppbv

RT: 3.47 min Scan# 211

Delta R.T. -0.01 min

Lab File: VL035766.D

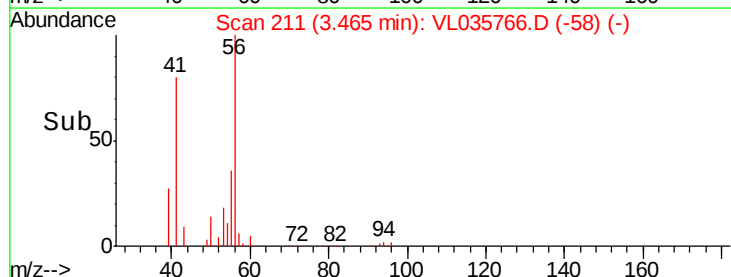
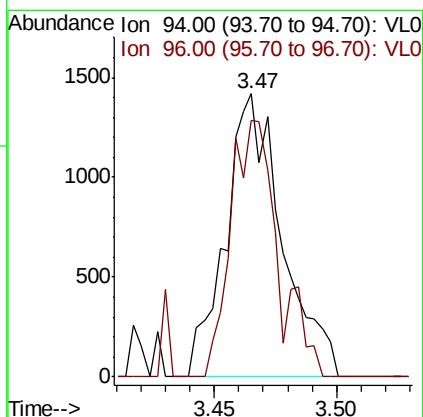
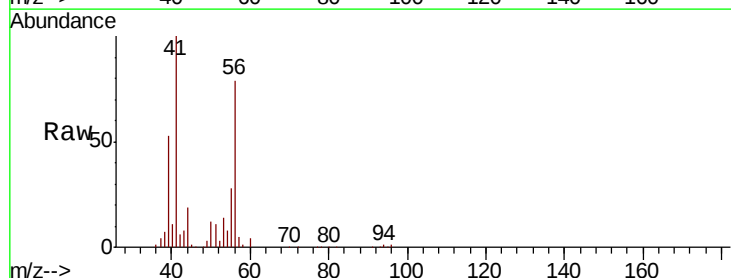
Acq: 12 Oct 2020 17:58

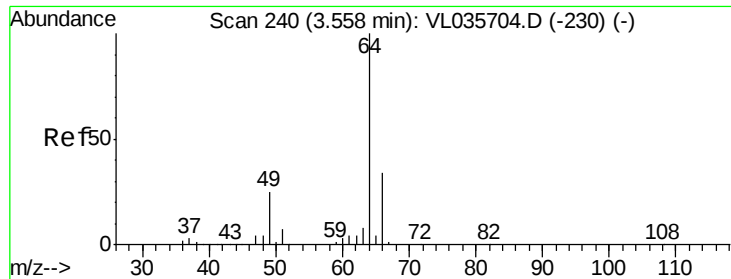
Tgt Ion: 94 Resp: 2283

Ion Ratio Lower Upper

94 100

96 90.8 76.3 114.5





#7

Chloroethane

Concen: 0.071 ppbv

RT: 3.56 min Scan# 240

Delta R.T. 0.00 min

Lab File: VL035766.D

Acq: 12 Oct 2020 17:58

Instrument :

MSVOA_L

ClientSampled :

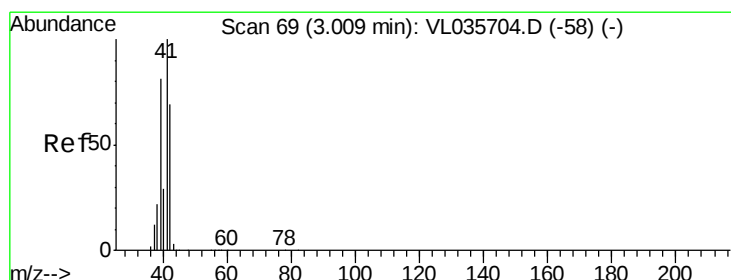
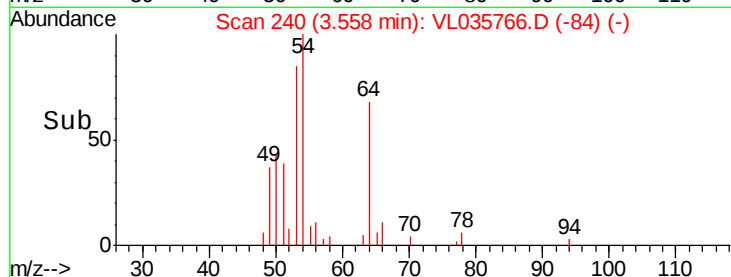
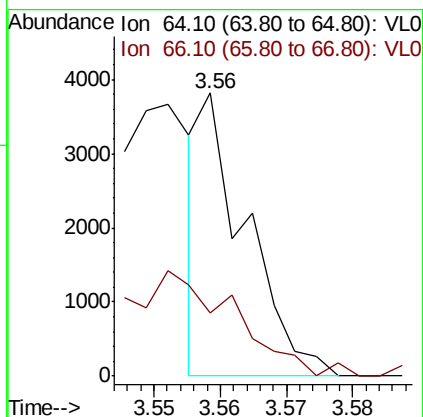
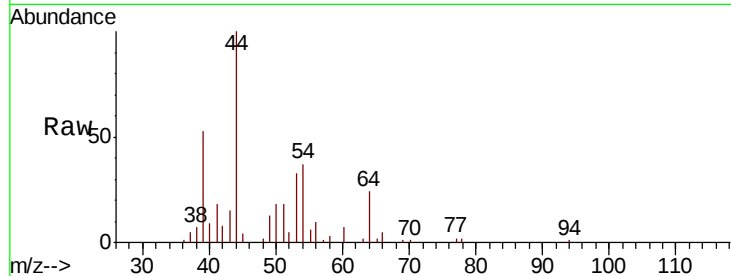
4

Tot Ion: 64 Resp: 1820

Ion Ratio Lower Upper

64 100

66 22.5 26.9 40.3#



#9

Propene

Concen: 148.821 ppbv

RT: 3.00 min Scan# 66

Delta R.T. -0.01 min

Lab File: VL035766.D

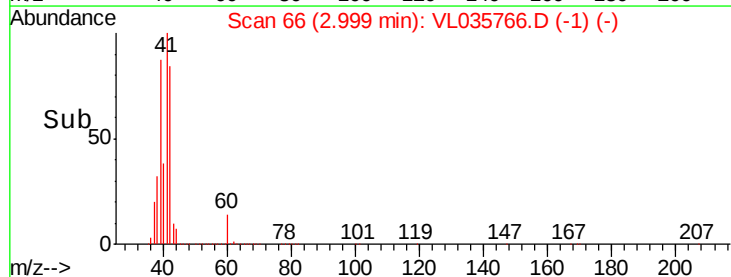
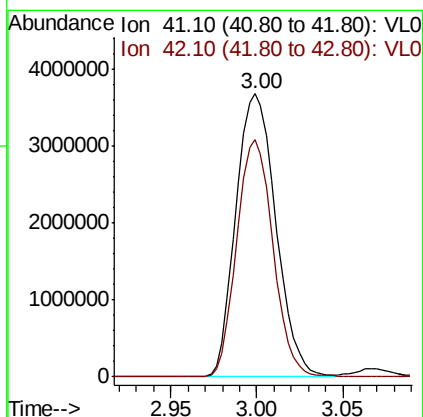
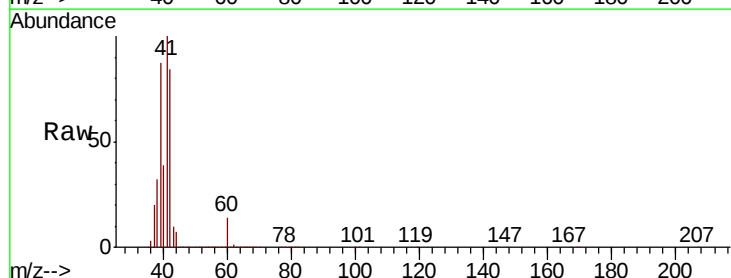
Acq: 12 Oct 2020 17:58

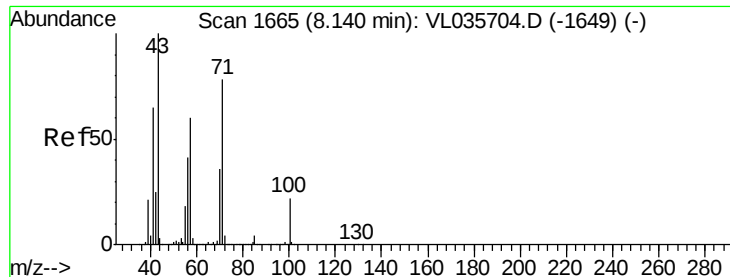
Tgt Ion: 41 Resp: 5939577

Ion Ratio Lower Upper

41 100

42 76.5 56.2 84.4





#10

Heptane

Concen: 11.711 ppbv

RT: 8.13 min Scan# 1663

Delta R.T. -0.01 min

Lab File: VL035766.D

Acq: 12 Oct 2020 17:58

Instrument :

MSVOA_L

ClientSampleId :

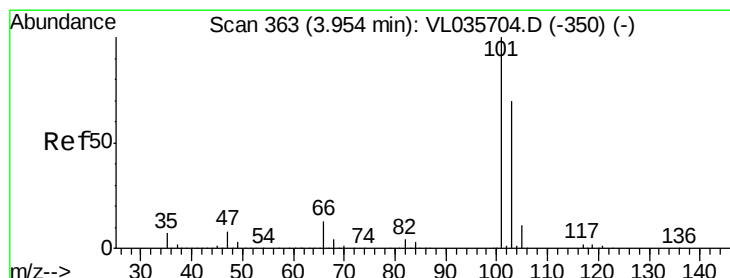
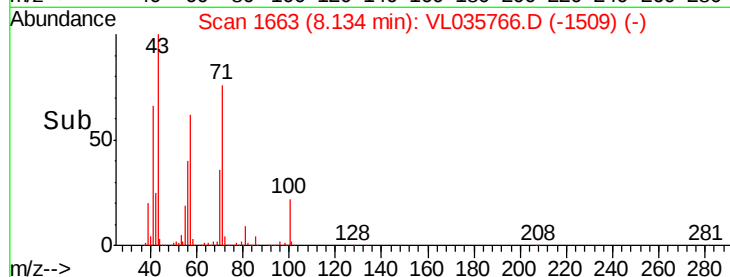
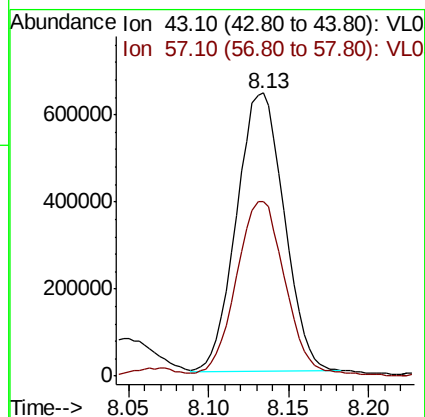
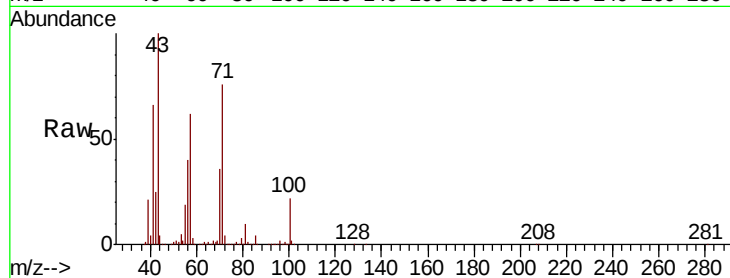
4

Tot Ion: 43 Resp: 1302985

Ion Ratio Lower Upper

43 100

57 64.1 50.4 75.6



#11

Trichlorofluoromethane

Concen: 0.219 ppbv

RT: 3.95 min Scan# 362

Delta R.T. -0.00 min

Lab File: VL035766.D

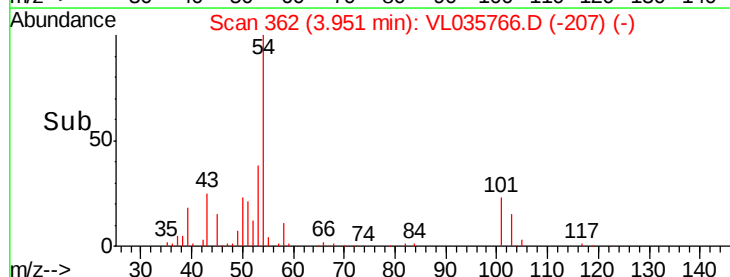
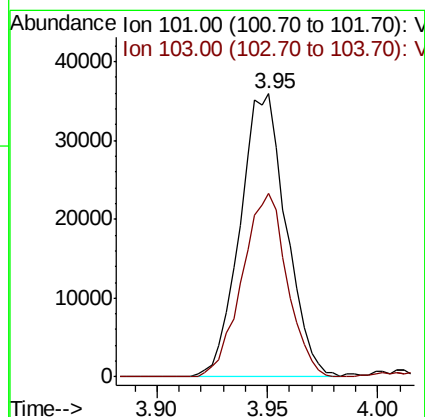
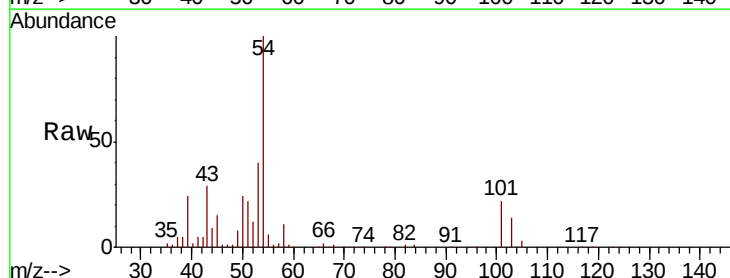
Acq: 12 Oct 2020 17:58

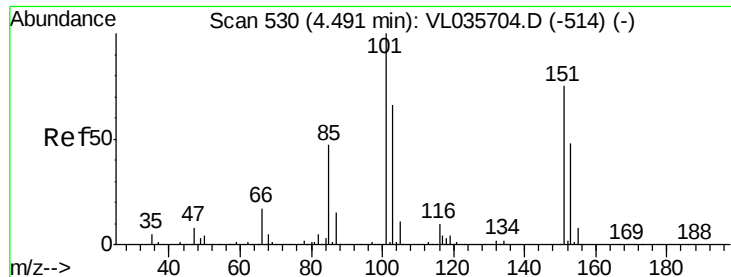
Tgt Ion:101 Resp: 52453

Ion Ratio Lower Upper

101 100

103 65.0 55.6 83.4





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.066 ppbv

RT: 4.48 min Scan# 528

Delta R.T. -0.01 min

Lab File: VL035766.D

Acq: 12 Oct 2020 17:58

Instrument :

MSVOA_L

ClientSampleId :

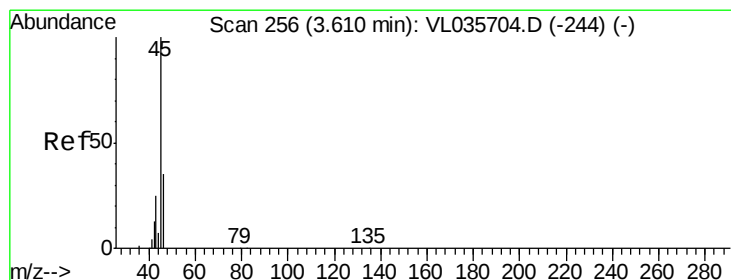
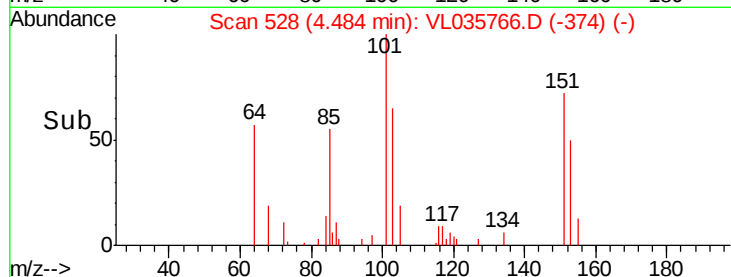
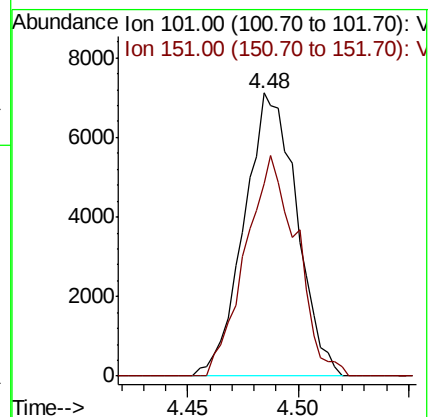
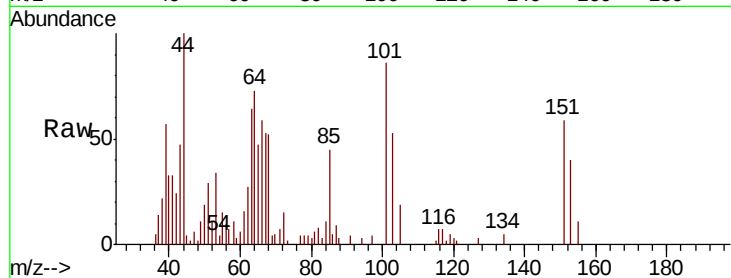
4

Tot Ion:101 Resp: 11753

Ion Ratio Lower Upper

101 100

151 76.5 59.1 88.7



#13

Ethanol

Concen: 72.258 ppbv

RT: 3.61 min Scan# 255

Delta R.T. -0.00 min

Lab File: VL035766.D

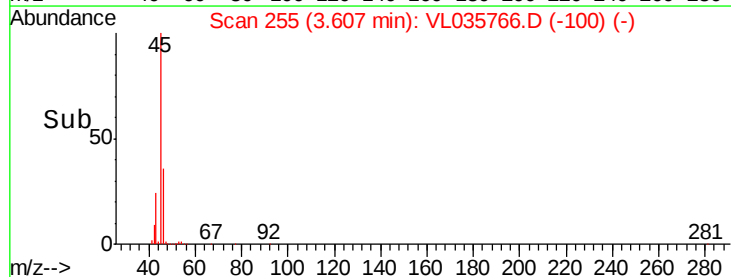
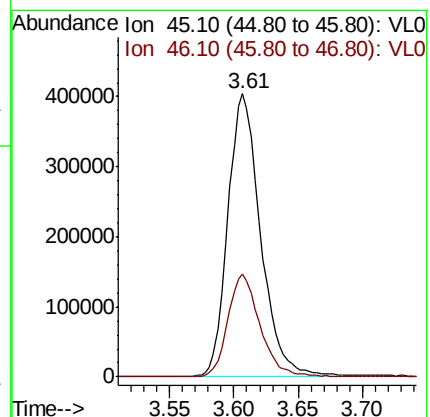
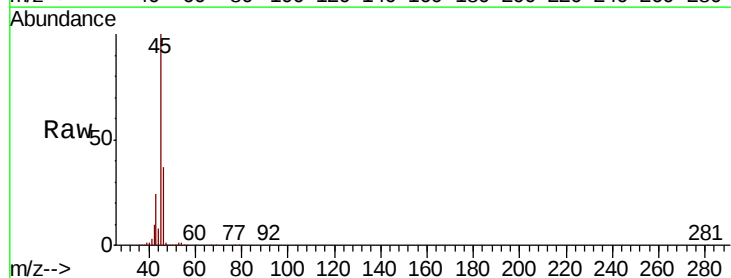
Acq: 12 Oct 2020 17:58

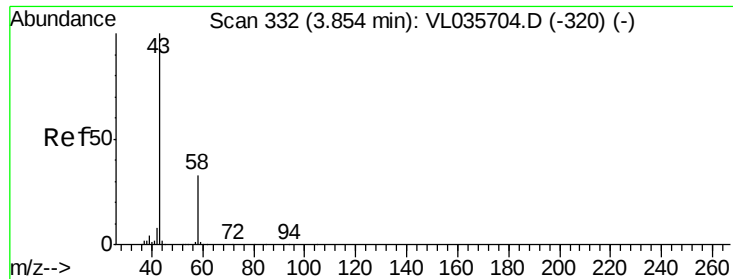
Tgt Ion: 45 Resp: 711181

Ion Ratio Lower Upper

45 100

46 36.0 14.7 58.7





#15

Acetone

Concen: 147.571 ppbv

RT: 3.85 min Scan# 331

Delta R.T. -0.00 min

Lab File: VL035766.D

Acq: 12 Oct 2020 17:58

Instrument :

MSVOA_L

ClientSampled :

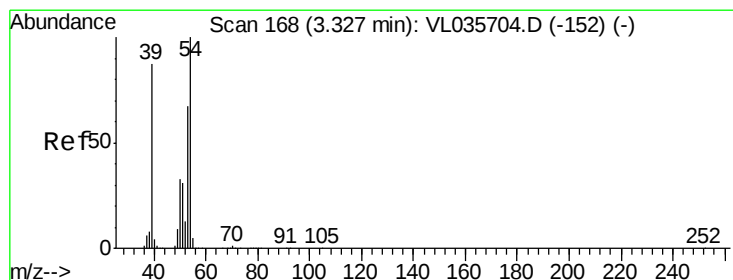
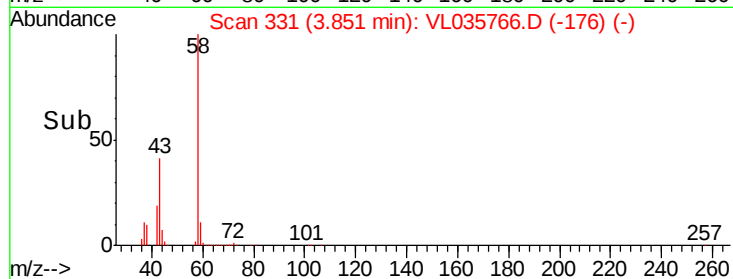
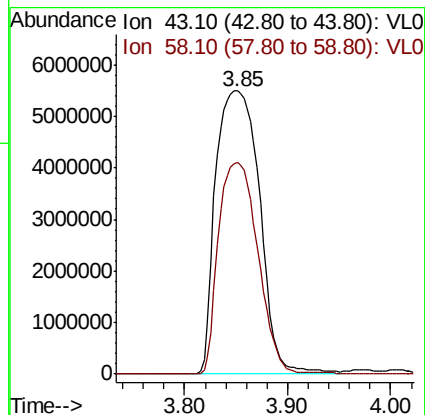
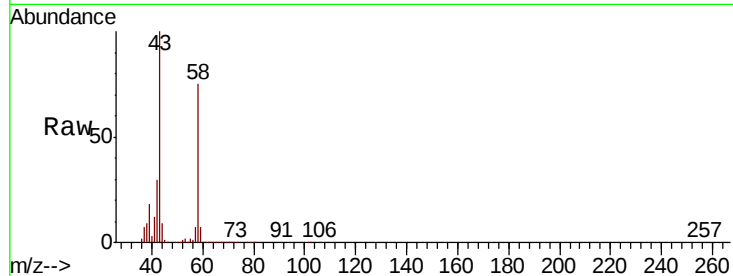
4

Tot Ion: 43 Resp:16224406

Ion Ratio Lower Upper

43 100

58 68.0 27.3 40.9#



#16

1,3-Butadiene

Concen: 136.480 ppbv

RT: 3.30 min Scan# 159

Delta R.T. -0.03 min

Lab File: VL035766.D

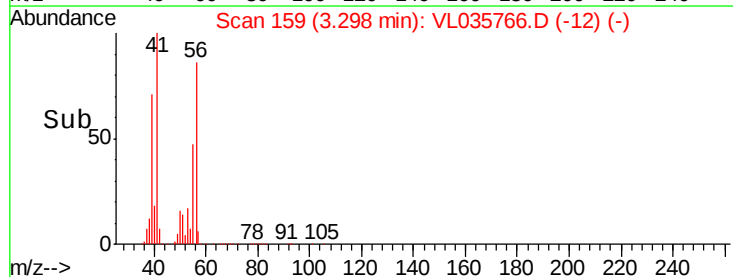
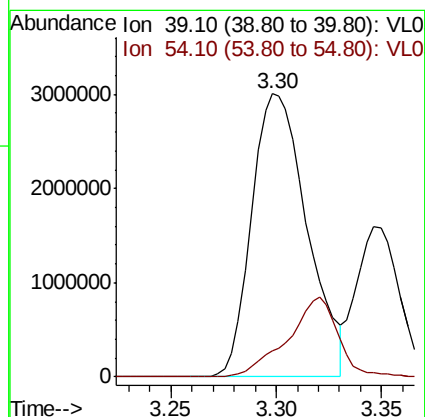
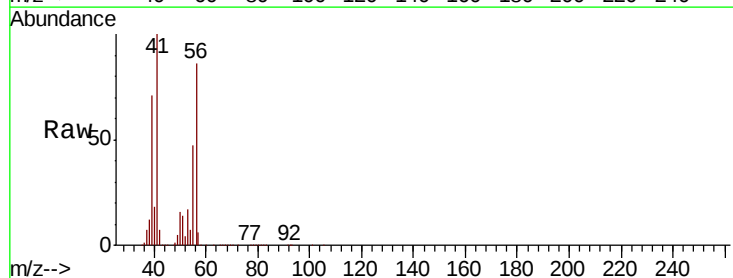
Acq: 12 Oct 2020 17:58

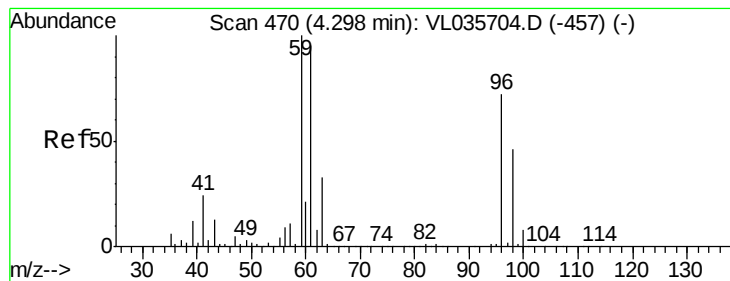
Tgt Ion: 39 Resp: 5489471

Ion Ratio Lower Upper

39 100

54 25.9 87.4 131.0#





#17

tert-Butyl alcohol

Concen: 4.661 ppbv

RT: 4.30 min Scan# 470

Delta R.T. 0.00 min

Lab File: VL035766.D

Acq: 12 Oct 2020 17:58

Instrument :

MSVOA_L

ClientSampled :

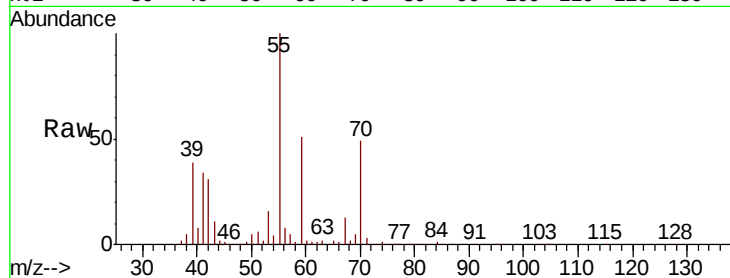
4

Tot Ion: 59 Resp: 558167

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

4.30

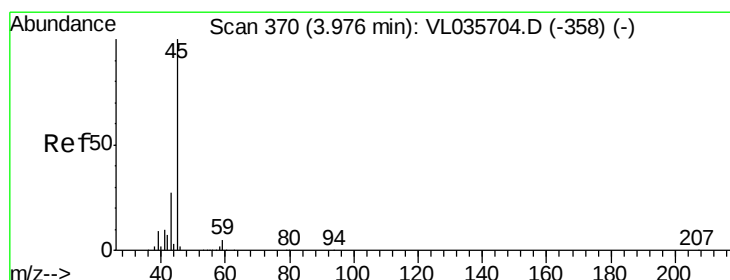
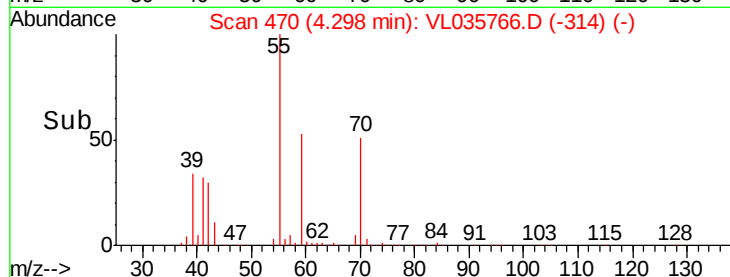
300000

200000

100000

0

Time-->



#19

Isopropyl Alcohol

Concen: 7.589 ppbv

RT: 3.97 min Scan# 368

Delta R.T. -0.01 min

Lab File: VL035766.D

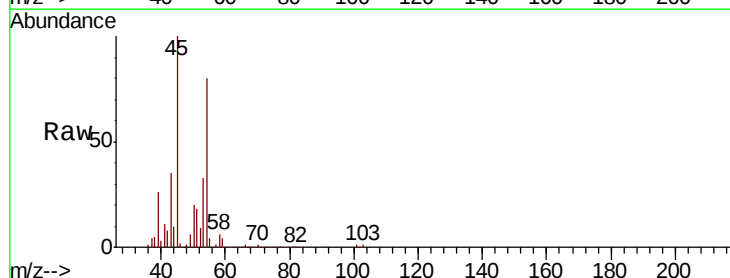
Acq: 12 Oct 2020 17:58

Tgt Ion: 45 Resp: 453854

Ion Ratio Lower Upper

45 100

58 0.0 2.8 4.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.97

2000000

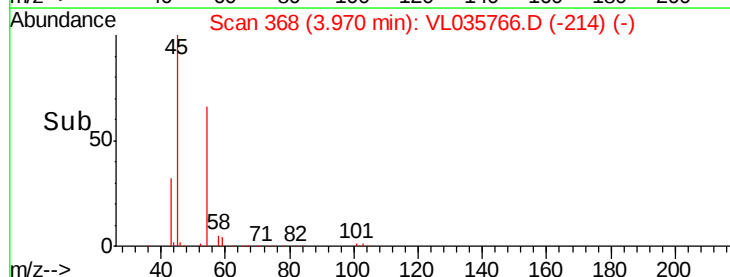
1500000

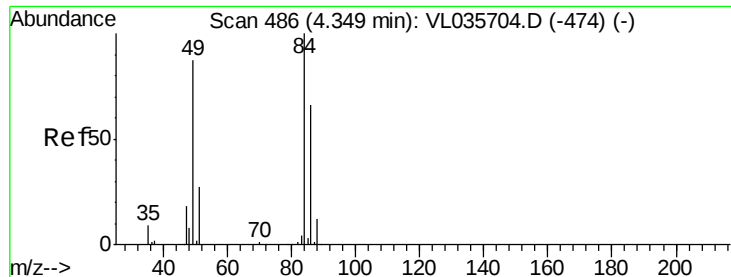
1000000

500000

0

Time-->

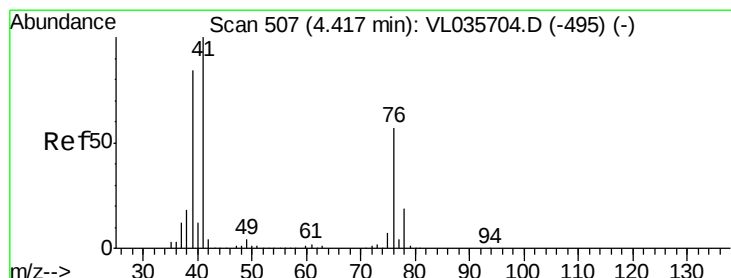
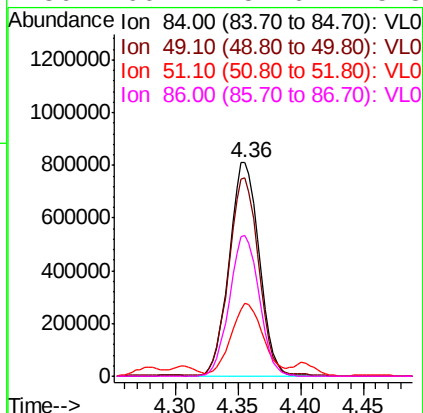
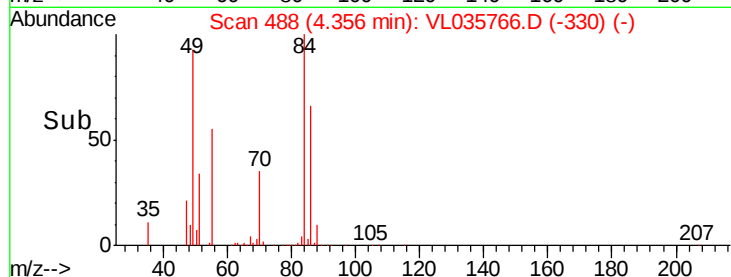
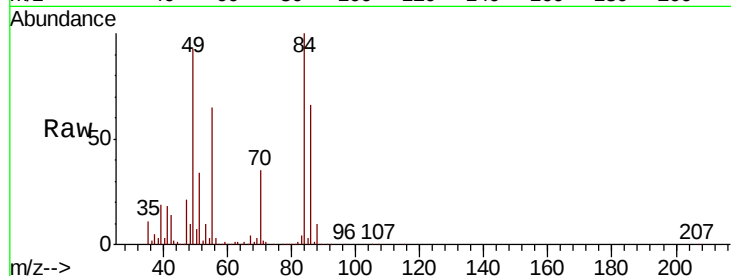




#20
Methylene Chloride
Concen: 16.723 ppbv
RT: 4.36 min Scan# 488
Delta R.T. 0.01 min
Lab File: VL035766.D
Acq: 12 Oct 2020 17:58

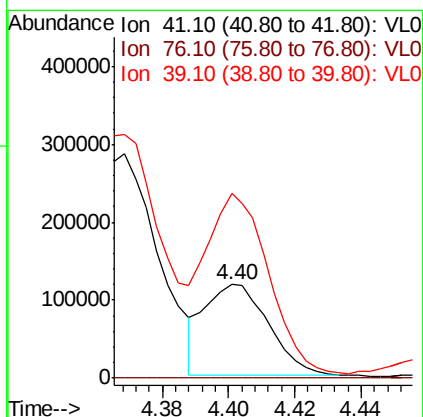
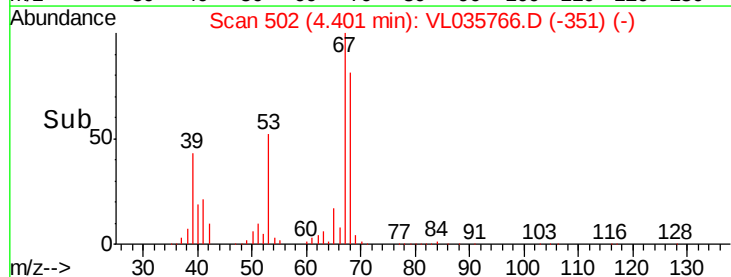
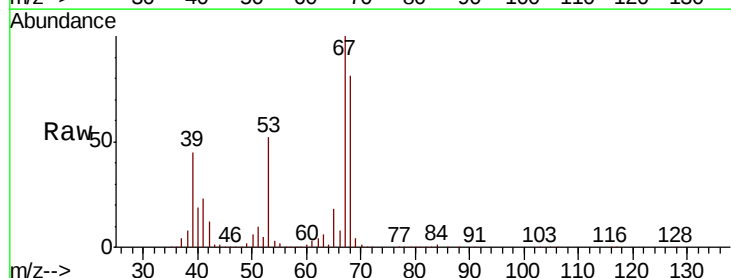
Instrument :
MSVOA_L
ClientSampled :
4

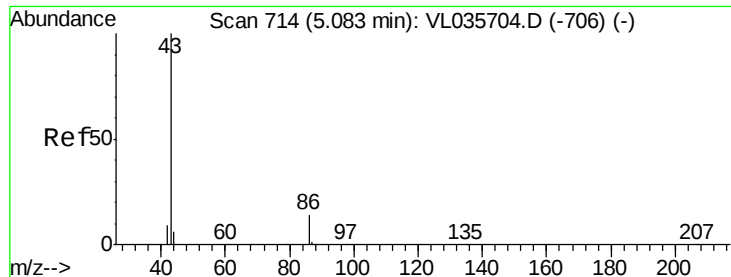
Tot Ion: 84 Resp: 1350544
Ion Ratio Lower Upper
84 100
49 92.7 69.8 104.6
51 34.2 21.8 32.8#
86 66.1 52.6 78.8



#21
Allyl Chloride
Concen: 2.946 ppbv
RT: 4.40 min Scan# 502
Delta R.T. -0.02 min
Lab File: VL035766.D
Acq: 12 Oct 2020 17:58

Tgt Ion: 41 Resp: 156969
Ion Ratio Lower Upper
41 100
76 0.0 44.8 67.2#
39 191.3 68.4 102.6#





#23

Vinyl Acetate

Concen: 7.883 ppbv

RT: 5.07 min Scan# 709

Delta R.T. -0.02 min

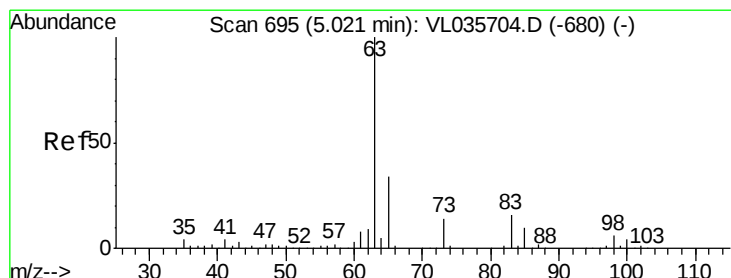
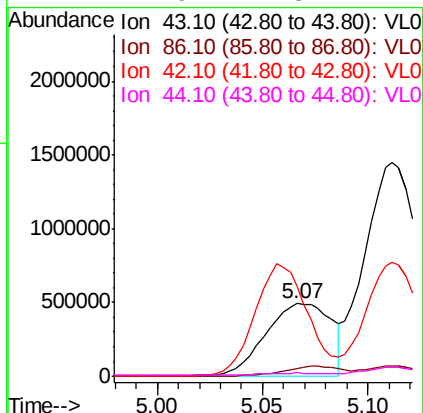
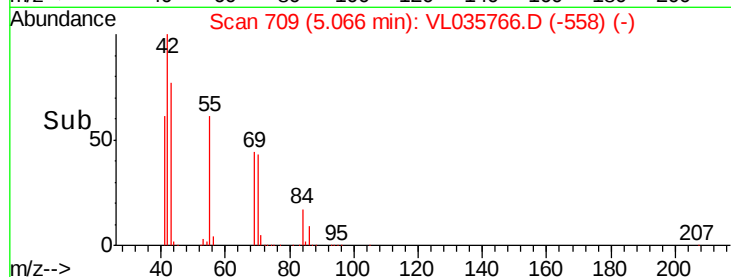
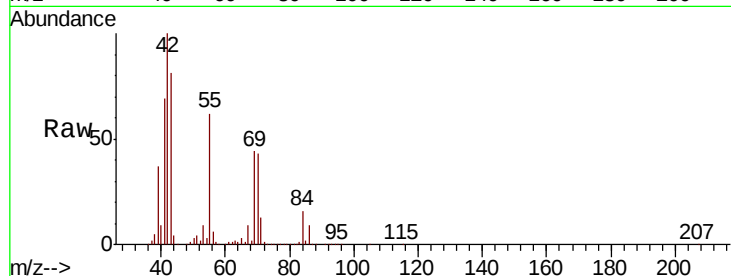
Lab File: VL035766.D

Acq: 12 Oct 2020 17:58

Instrument :
MSVOA_L
ClientSampleId :
4

Tot Ion: 43 Resp: 1061579

Ion	Ratio	Lower	Upper
43	100		
86	11.0	9.7	14.5
42	123.1	7.9	11.9#
44	2.9	4.8	7.2#



#24

1,1-Dichloroethane

Concen: 0.070 ppbv

RT: 5.05 min Scan# 705

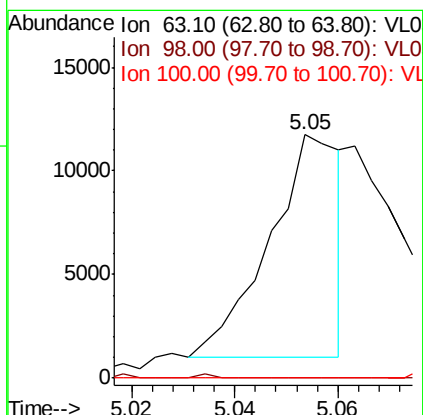
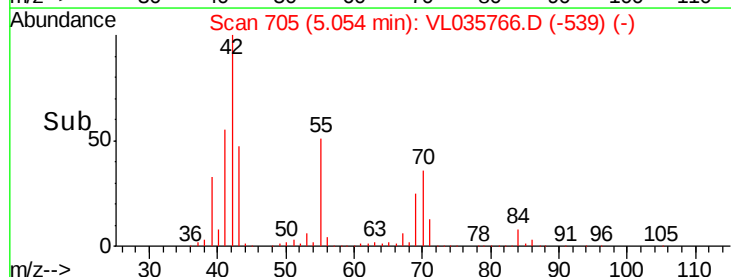
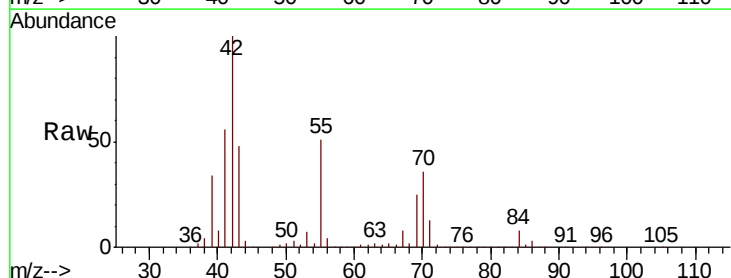
Delta R.T. 0.03 min

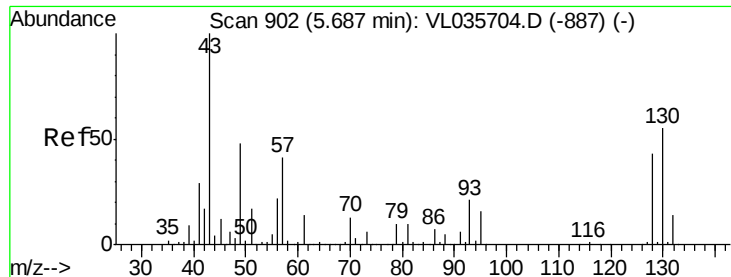
Lab File: VL035766.D

Acq: 12 Oct 2020 17:58

Tgt Ion: 63 Resp: 10291

Ion	Ratio	Lower	Upper
63	100		
98	0.0	3.3	9.8#
100	0.0	2.0	5.8#





#25

Ethyl Acetate

Concen: 10.352 ppbv

RT: 5.69 min Scan# 904

Delta R.T. 0.01 min

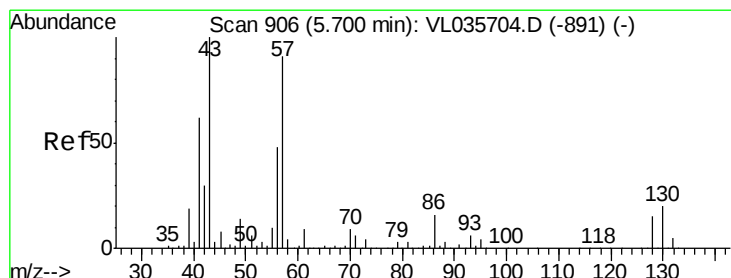
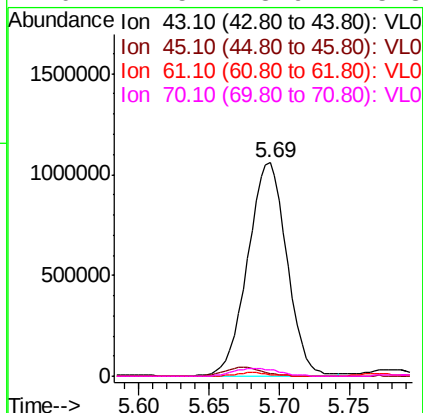
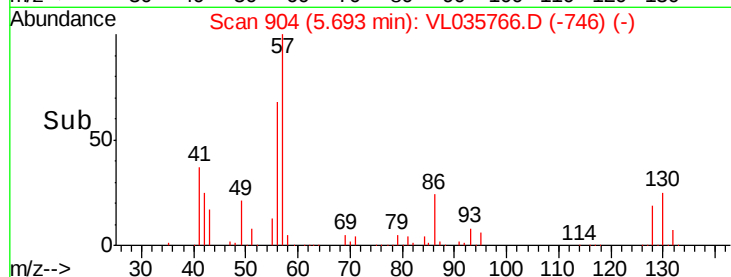
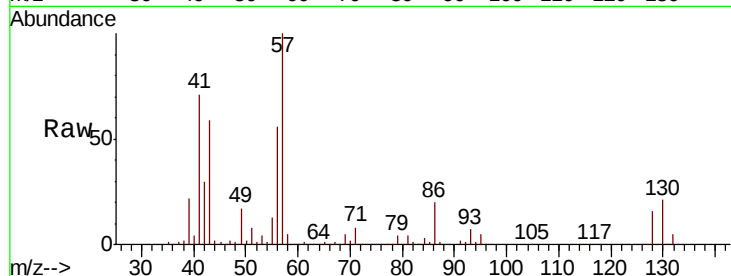
Lab File: VL035766.D

Acq: 12 Oct 2020 17:58

Instrument :
MSVOA_L
ClientSampleId :
4

Tot Ion: 43 Resp: 2047907

Ion	Ratio	Lower	Upper
43	100		
45	4.1	8.6	12.8#
61	1.7	10.4	15.6#
70	4.5	8.9	13.3#



#26

Hexane

Concen: 30.652 ppbv

RT: 5.69 min Scan# 904

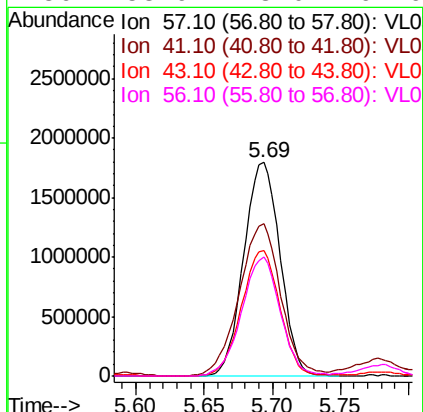
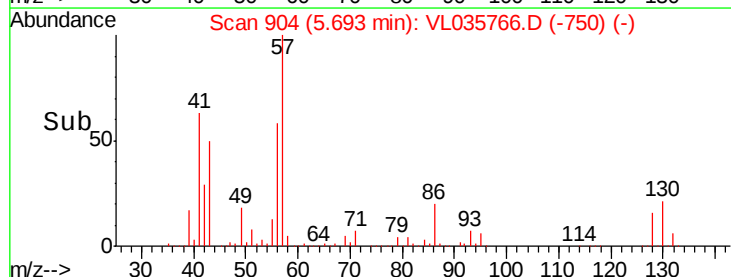
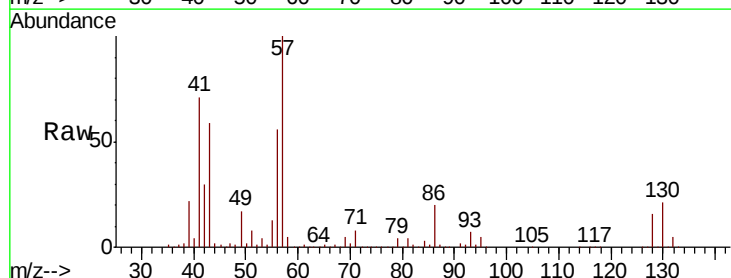
Delta R.T. -0.01 min

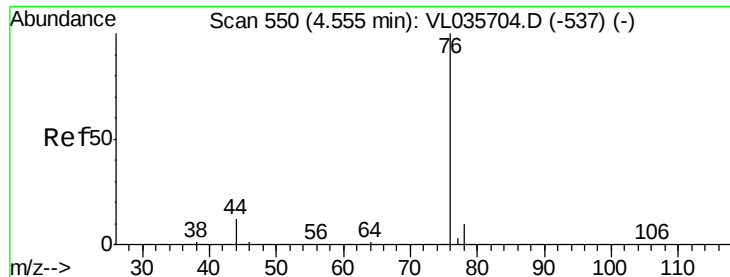
Lab File: VL035766.D

Acq: 12 Oct 2020 17:58

Tgt Ion: 57 Resp: 3322910

Ion	Ratio	Lower	Upper
57	100		
41	81.3	57.9	86.9
43	61.7	143.8	215.6#
56	58.9	43.0	64.6





#27

Carbon Disulfide

Concen: 31.250 ppbv

RT: 4.55 min Scan# 548

Delta R.T. -0.01 min

Lab File: VL035766.D

Acq: 12 Oct 2020 17:58

Instrument :

MSVOA_L

ClientSampleId :

4

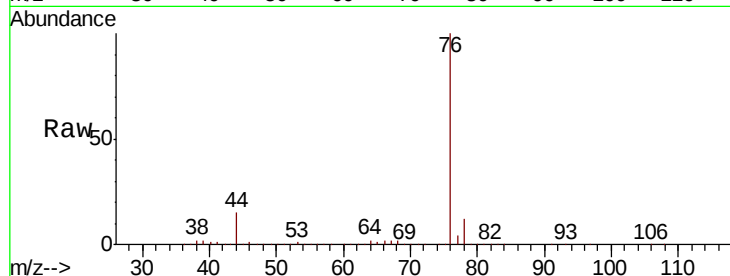
Tot Ion: 76 Resp: 5049398

Ion Ratio Lower Upper

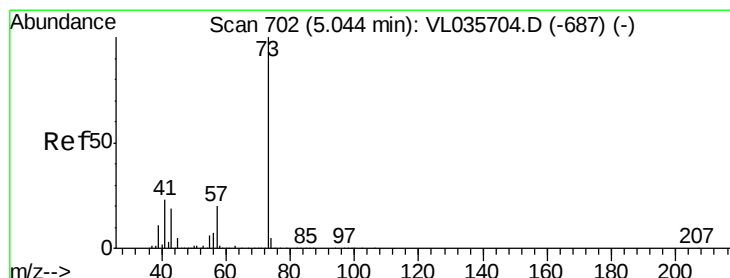
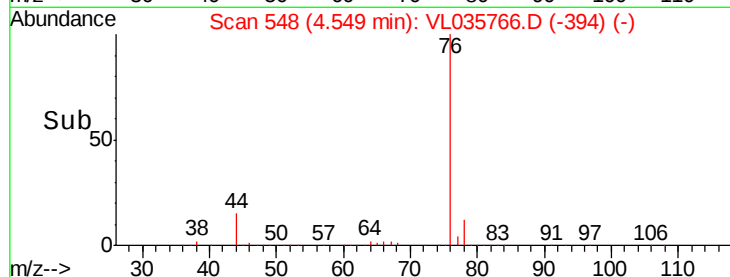
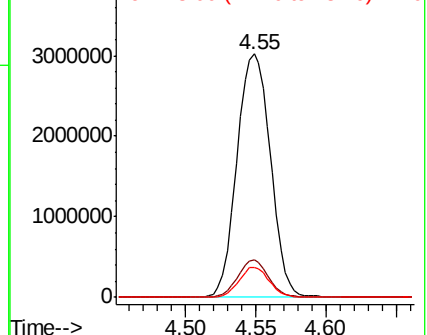
76 100

44 13.7 9.7 14.5

78 11.1 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



#28

Methyl tert-Butyl Ether

Concen: 0.035 ppbv

RT: 5.04 min Scan# 701

Delta R.T. -0.00 min

Lab File: VL035766.D

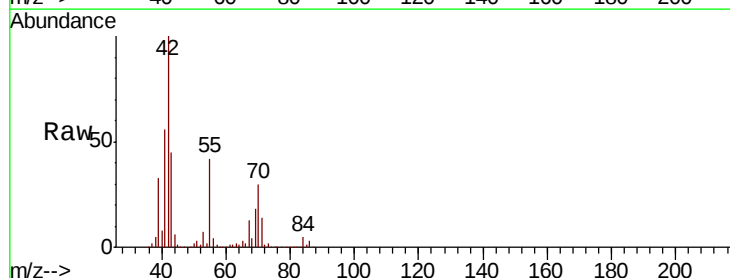
Acq: 12 Oct 2020 17:58

Tgt Ion: 73 Resp: 6036

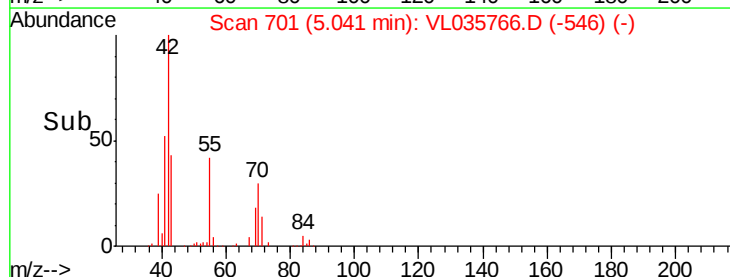
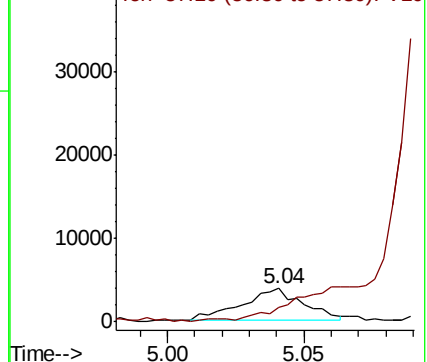
Ion Ratio Lower Upper

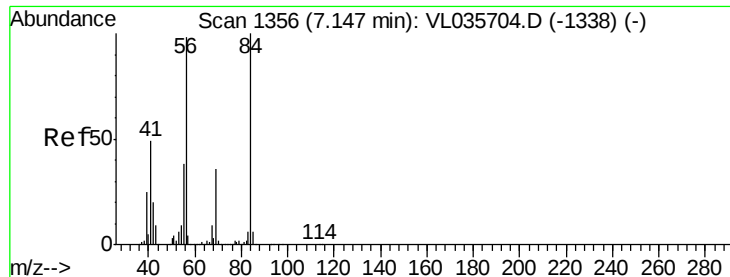
73 100

57 7517.3 15.6 23.4#



Abundance Ion 73.10 (72.80 to 73.80): VL0
Ion 57.10 (56.80 to 57.80): VL0

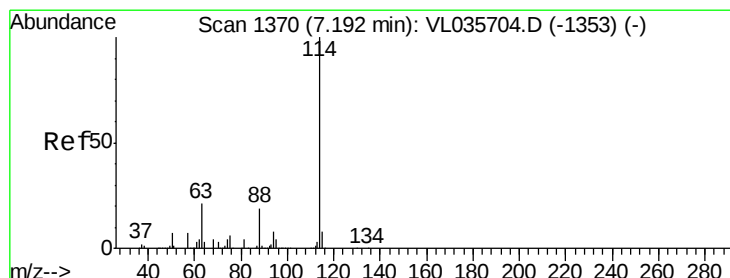
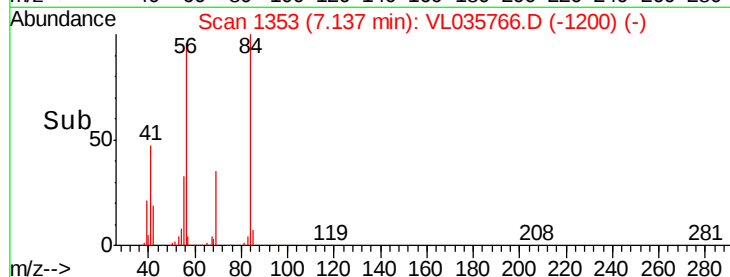
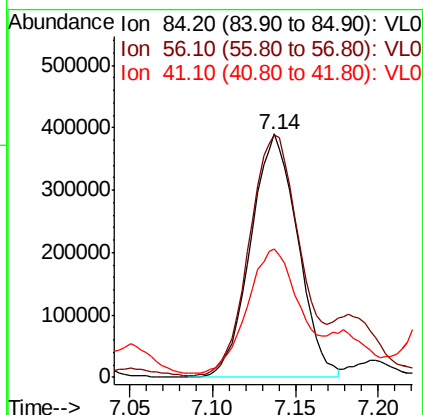
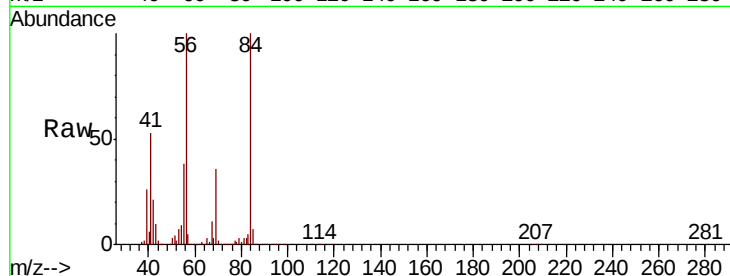




#30
Cyclohexane
Concen: 7.198 ppbv
RT: 7.14 min Scan# 1353
Delta R.T. -0.01 min
Lab File: VL035766.D
Acq: 12 Oct 2020 17:58

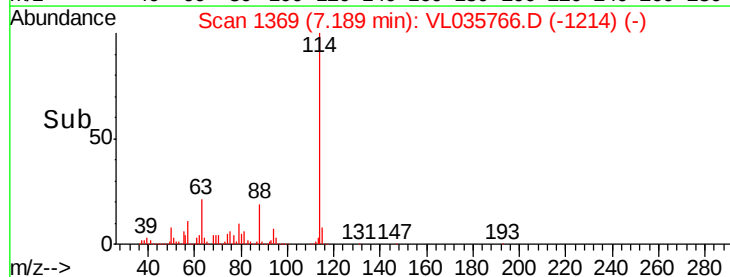
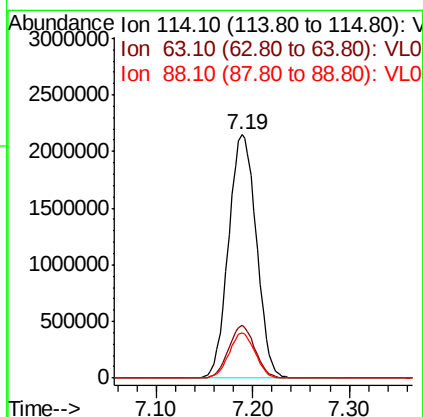
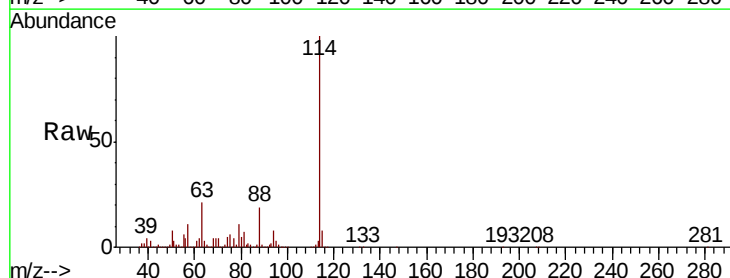
Instrument :
MSVOA_L
ClientSampled :
4

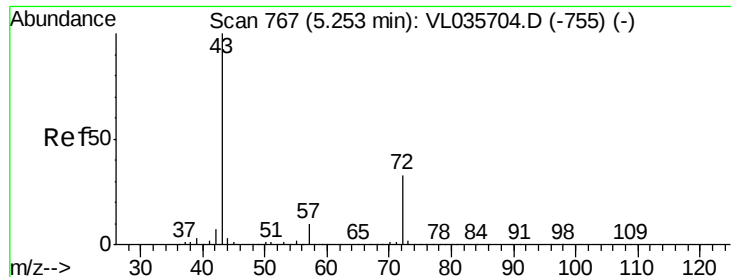
Tot Ion: 84 Resp: 769881
Ion Ratio Lower Upper
84 100
56 128.9 84.6 127.0#
41 72.0 41.1 61.7#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1369
Delta R.T. -0.00 min
Lab File: VL035766.D
Acq: 12 Oct 2020 17:58

Tgt Ion: 114 Resp: 4288638
Ion Ratio Lower Upper
114 100
63 21.0 16.1 24.1
88 17.5 14.1 21.1





#34

2-Butanone

Concen: 46.432 ppbv

RT: 5.25 min Scan# 765

Delta R.T. -0.01 min

Lab File: VL035766.D

Acq: 12 Oct 2020 17:58

Instrument :

MSVOA_L

ClientSampled :

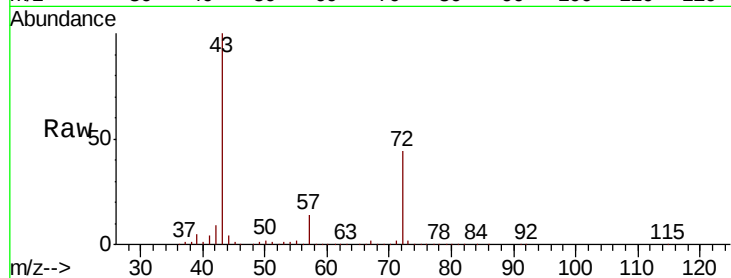
4

Tot Ion: 43 Resp: 6586299

Ion Ratio Lower Upper

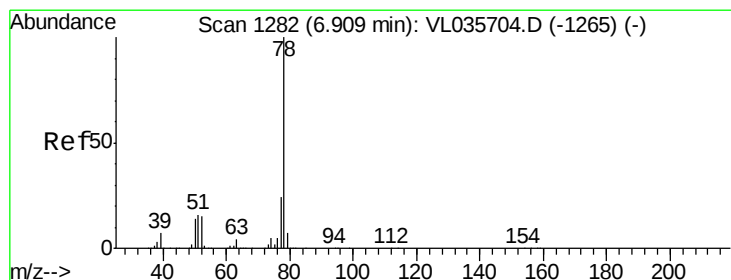
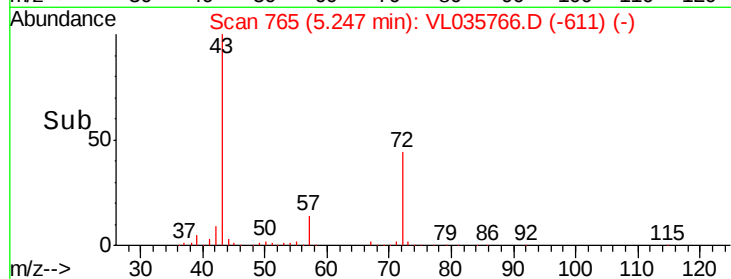
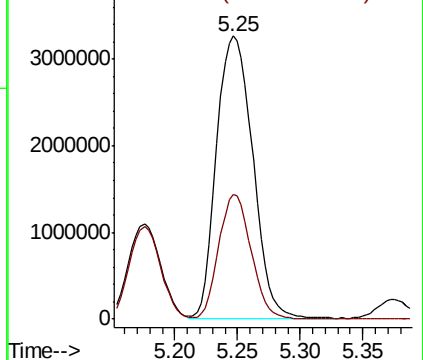
43 100

72 39.2 26.1 39.1#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#36

Benzene

Concen: 16.740 ppbv

RT: 6.90 min Scan# 1280

Delta R.T. -0.01 min

Lab File: VL035766.D

Acq: 12 Oct 2020 17:58

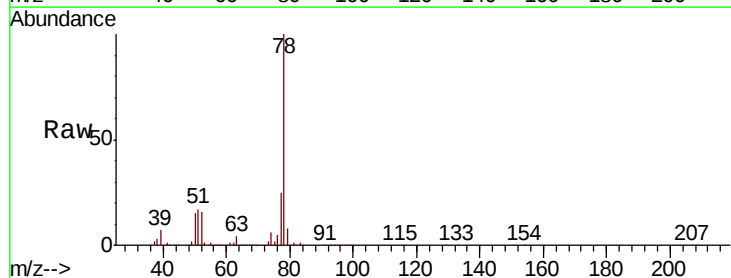
Tgt Ion: 78 Resp: 4677991

Ion Ratio Lower Upper

78 100

77 25.2 19.3 28.9

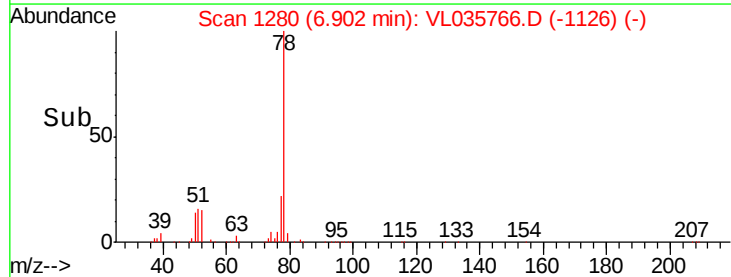
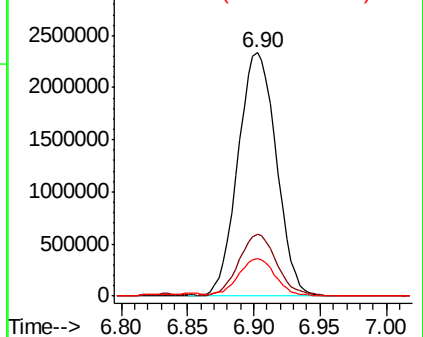
50 15.1 11.6 17.4

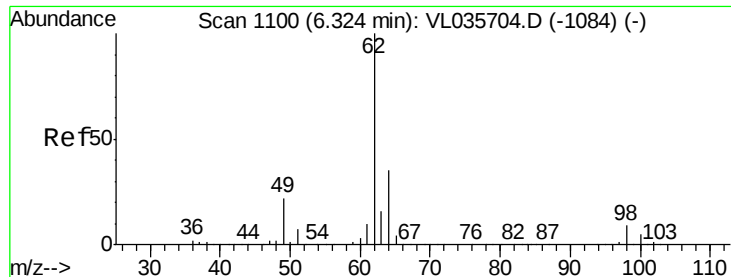


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

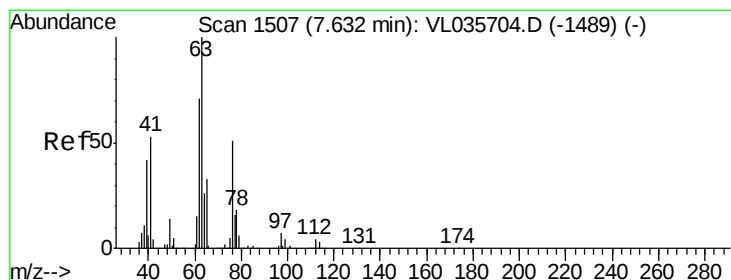
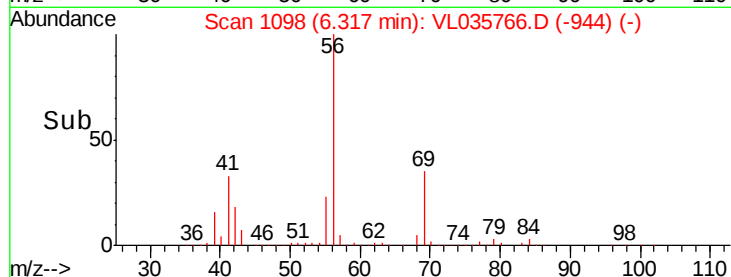
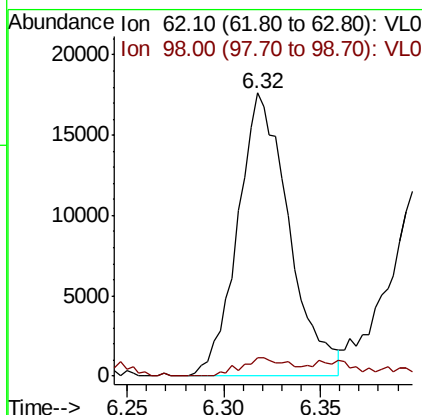
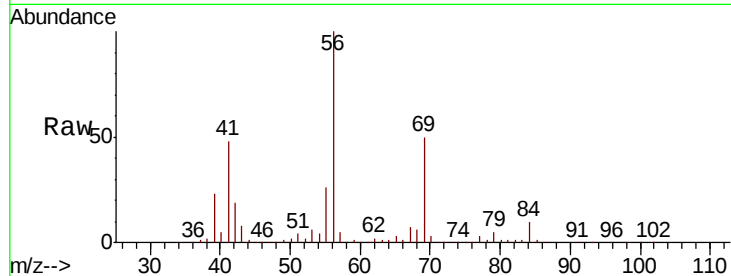




#37
 1,2-Dichloroethane
 Concen: 0.223 ppbv
 RT: 6.32 min Scan# 1098
 Delta R.T. -0.01 min
 Lab File: VL035766.D
 Acq: 12 Oct 2020 17:58

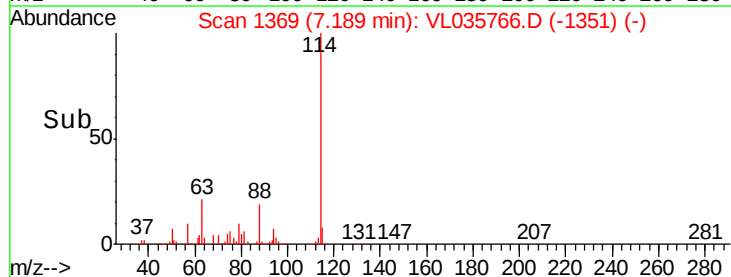
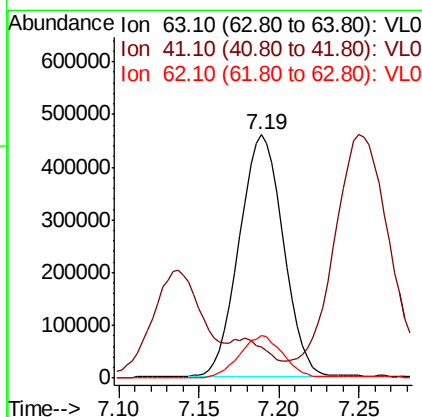
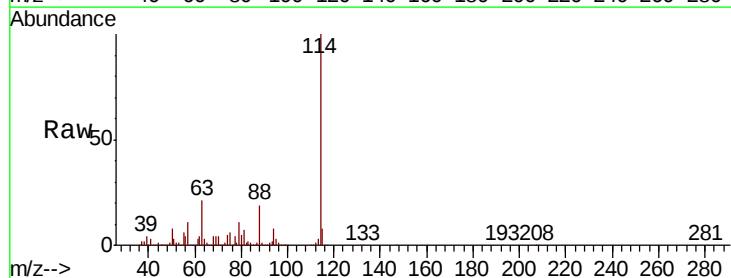
Instrument :
 MSVOA_L
 ClientSampleId :
 4

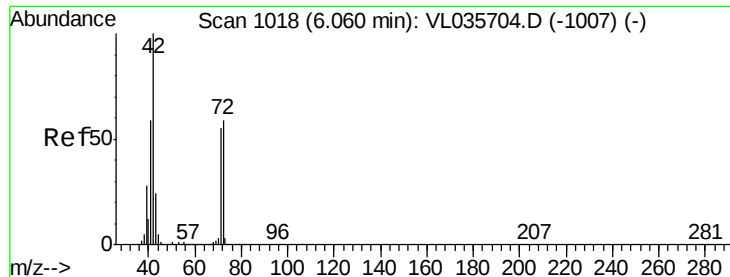
Tot Ion: 62 Resp: 32444
 Ion Ratio Lower Upper
 62 100
 98 10.9 6.9 10.3#



#39
 1,2-Dichloropropane
 Concen: 8.488 ppbv
 RT: 7.19 min Scan# 1369
 Delta R.T. -0.44 min
 Lab File: VL035766.D
 Acq: 12 Oct 2020 17:58

Tgt Ion: 63 Resp: 859707
 Ion Ratio Lower Upper
 63 100
 41 0.0 42.6 63.8#
 62 17.3 56.5 84.7#





#41

Tetrahydrofuran

Concen: 0.192 ppbv

RT: 6.06 min Scan# 1017

Delta R.T. -0.00 min

Lab File: VL035766.D

Acq: 12 Oct 2020 17:58

Instrument :

MSVOA_L

ClientSampled :

4

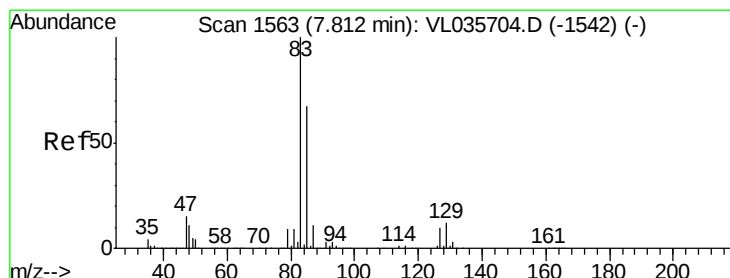
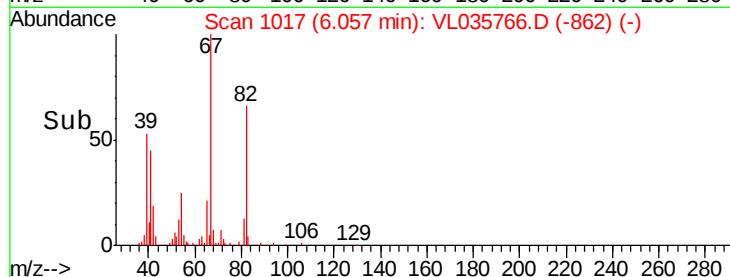
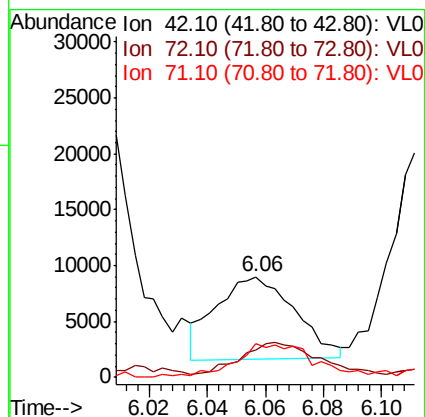
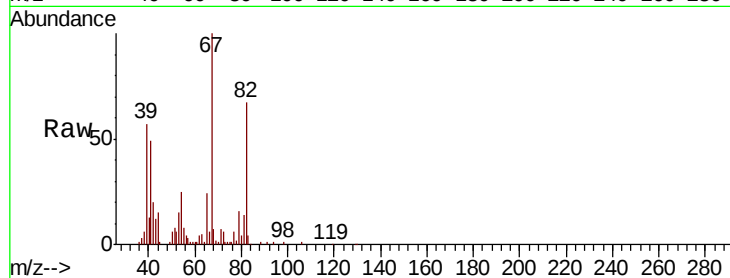
Tot Ion: 42 Resp: 13752

Ion Ratio Lower Upper

42 100

72 45.7 46.2 69.4#

71 0.0 44.2 66.4#



#42

Bromodichloromethane

Concen: 0.668 ppbv

RT: 7.81 min Scan# 1561

Delta R.T. -0.01 min

Lab File: VL035766.D

Acq: 12 Oct 2020 17:58

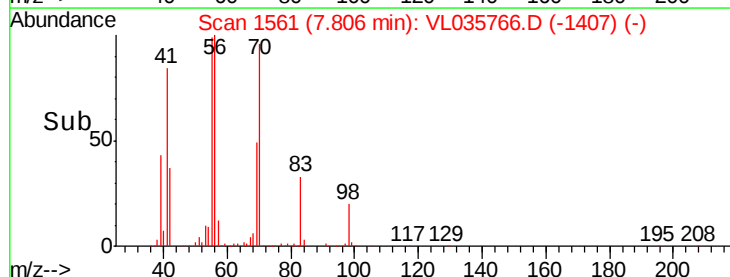
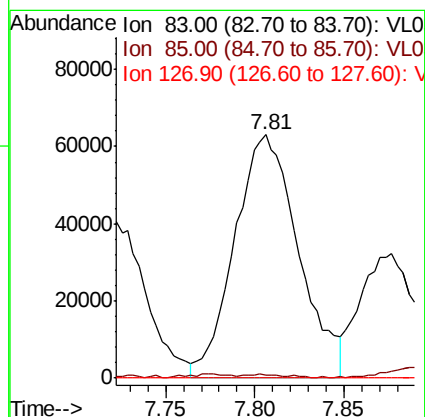
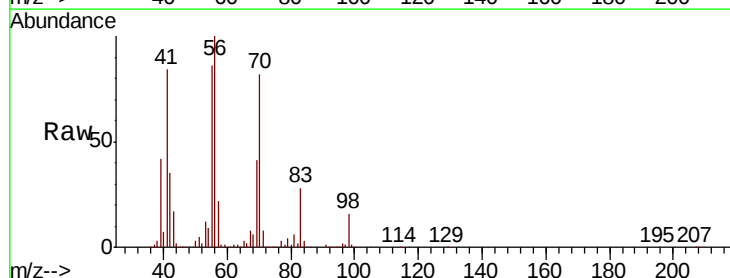
Tgt Ion: 83 Resp: 156745

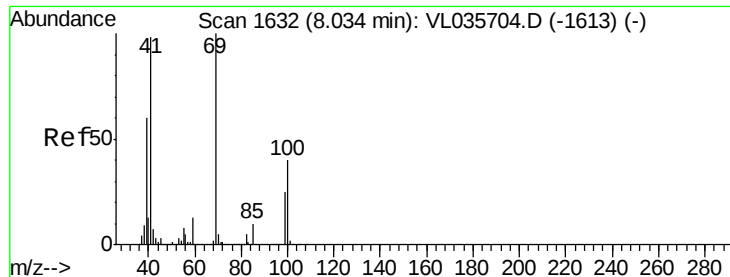
Ion Ratio Lower Upper

83 100

85 0.8 53.4 80.0#

127 0.0 7.8 11.6#

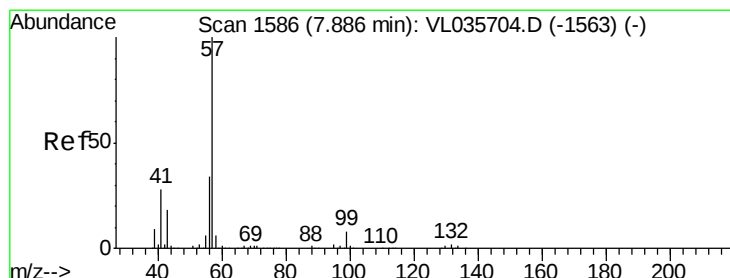
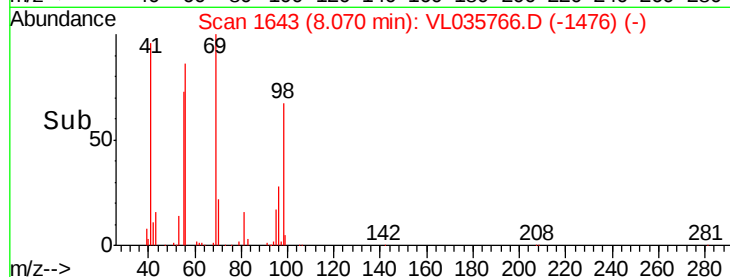
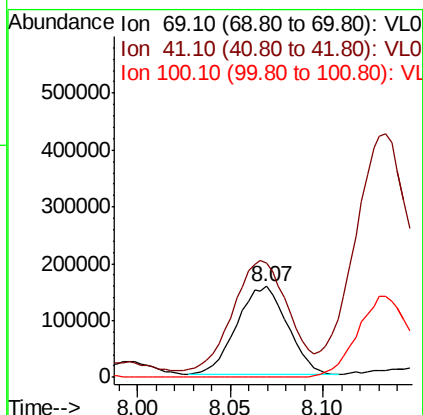
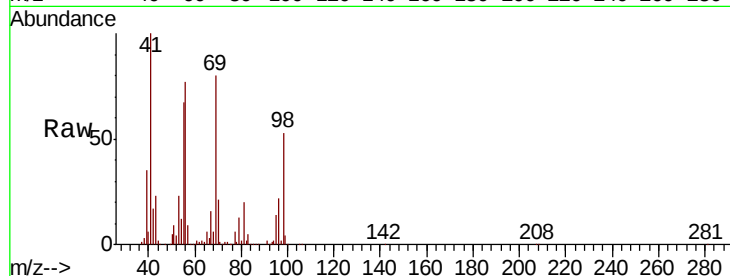




#43
Methvl Methacrilate
Concen: 2.616 ppbv
RT: 8.07 min Scan# 1643
Delta R.T. 0.04 min
Lab File: VL035766.D
Acq: 12 Oct 2020 17:58

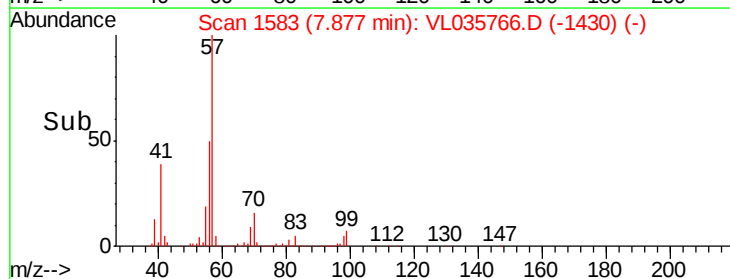
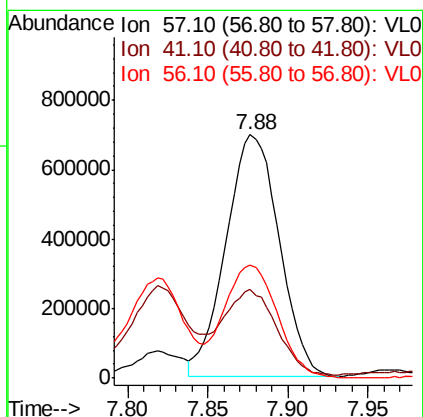
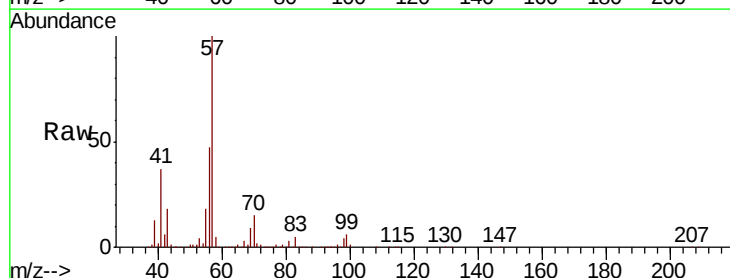
Instrument :
MSVOA_L
ClientSampled :
4

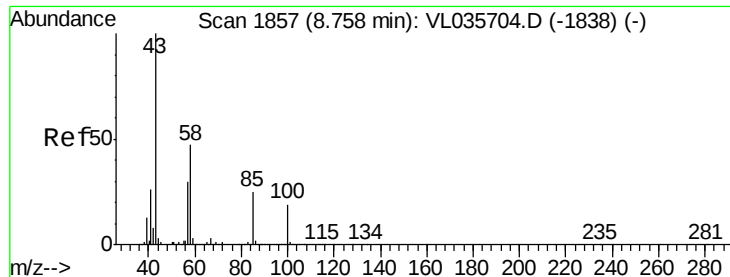
Tot Ion: 69 Resp: 290778
Ion Ratio Lower Upper
69 100
41 143.5 79.8 119.6#
100 0.0 30.6 46.0#



#44
2,2,4-Trimethylpentane
Concen: 3.964 ppbv
RT: 7.88 min Scan# 1583
Delta R.T. -0.01 min
Lab File: VL035766.D
Acq: 12 Oct 2020 17:58

Tgt Ion: 57 Resp: 1589657
Ion Ratio Lower Upper
57 100
41 37.1 21.2 31.8#
56 47.4 25.8 38.8#

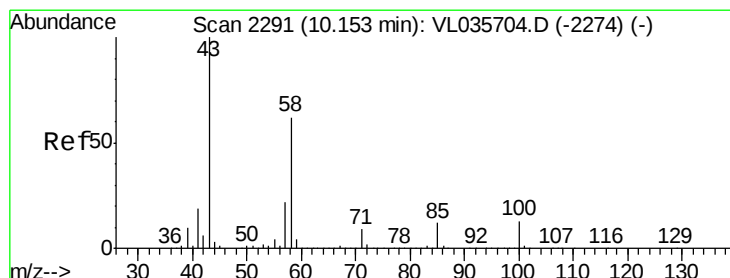
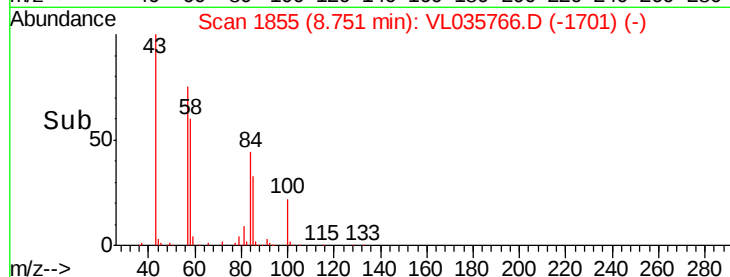
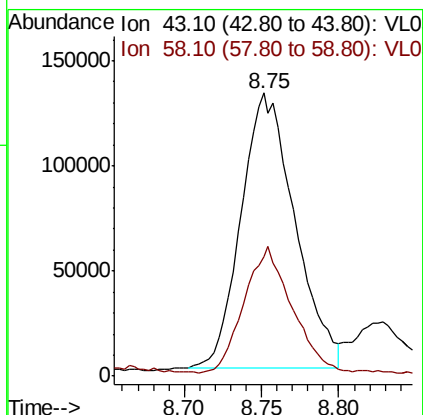
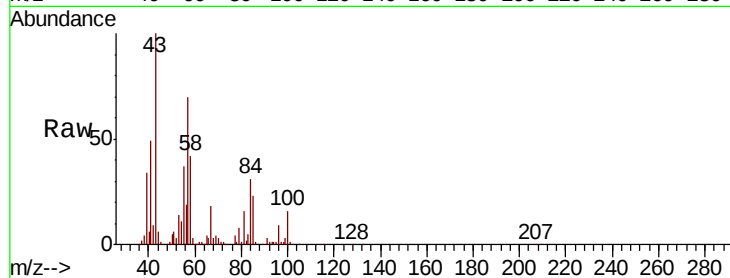




#50
 4-Methyl-2-Pentanone
 Concen: 1.526 ppbv
 RT: 8.75 min Scan# 1855
 Delta R.T. -0.01 min
 Lab File: VL035766.D
 Acq: 12 Oct 2020 17:58

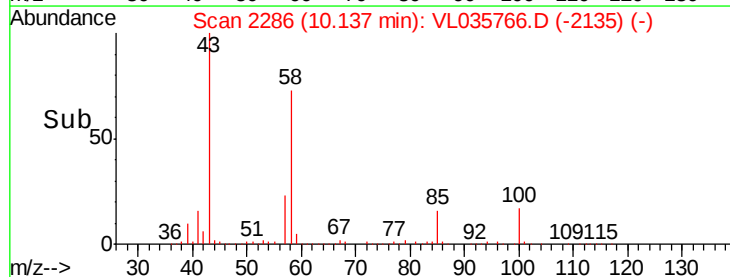
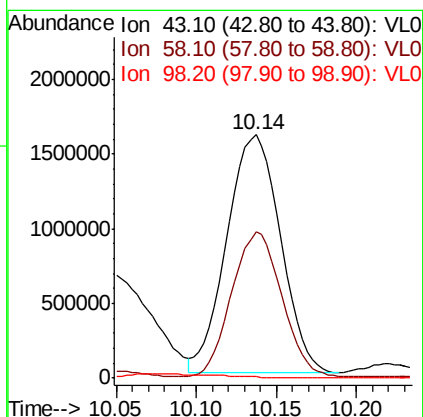
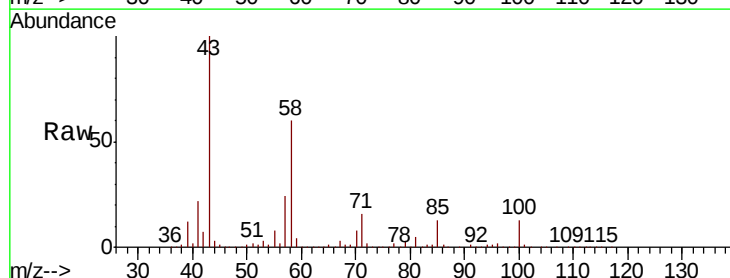
Instrument :
 MSVOA_L
 ClientSampleID :
 4

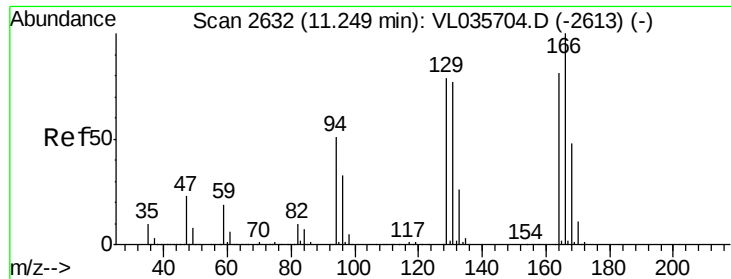
Tot Ion: 43 Resp: 316090
 Ion Ratio Lower Upper
 43 100
 58 43.7 36.6 54.8



#51
 2-Hexanone
 Concen: 21.964 ppbv
 RT: 10.14 min Scan# 2286
 Delta R.T. -0.02 min
 Lab File: VL035766.D
 Acq: 12 Oct 2020 17:58

Tgt Ion: 43 Resp: 3666457
 Ion Ratio Lower Upper
 43 100
 58 58.6 48.7 73.1
 98 0.0 0.7 1.1#





#52

Tetrachloroethene

Concen: 0.225 ppbv

RT: 11.24 min Scan# 2628

Delta R.T. -0.01 min

Lab File: VL035766.D

Acq: 12 Oct 2020 17:58

Instrument :

MSVOA_L

ClientSampleId :

4

Tot Ion:164 Resp: 30288

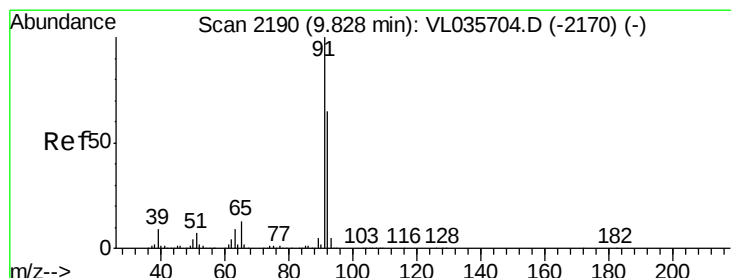
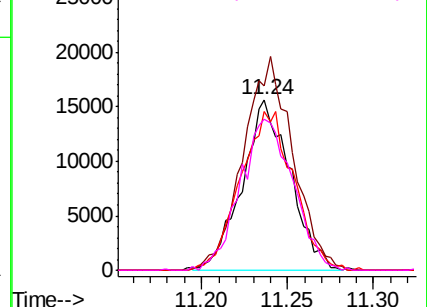
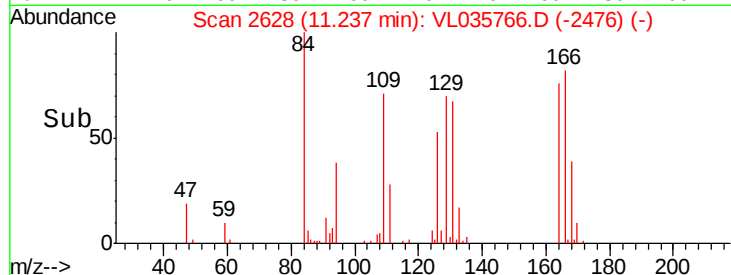
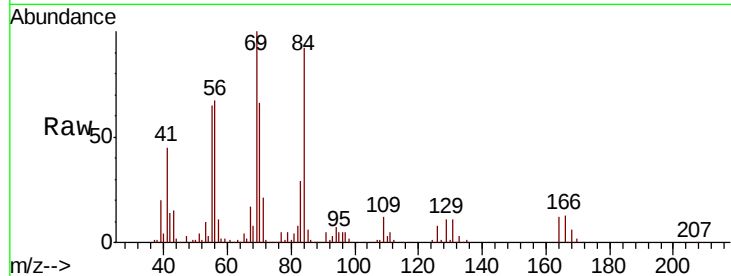
Ion Ratio Lower Upper

164 100

166 106.9 98.7 148.1

129 91.6 78.4 117.6

131 88.9 76.2 114.2



#53

Toluene

Concen: 22.520 ppbv

RT: 9.82 min Scan# 2187

Delta R.T. -0.01 min

Lab File: VL035766.D

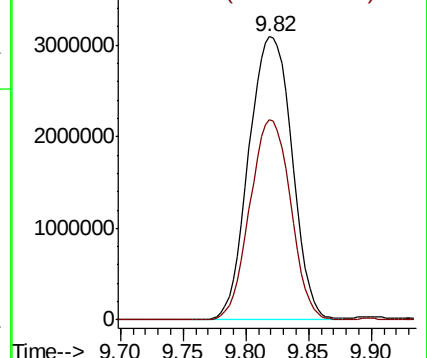
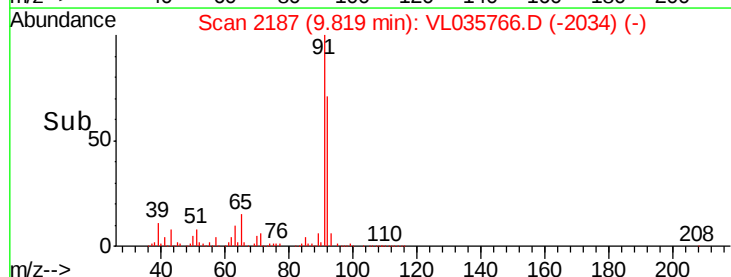
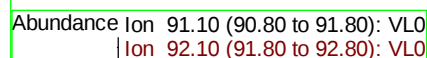
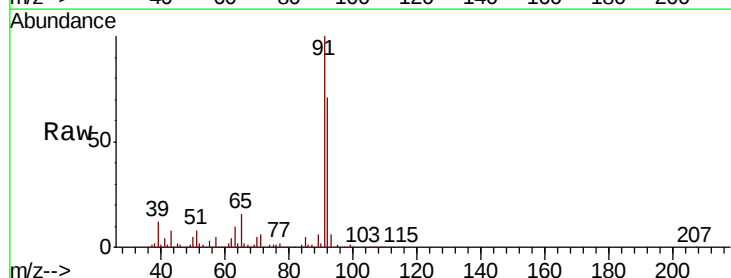
Acq: 12 Oct 2020 17:58

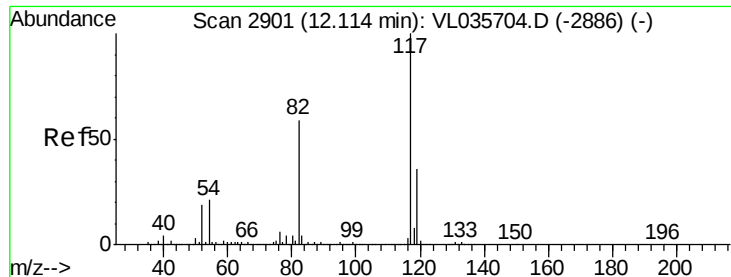
Tgt Ion: 91 Resp: 7420930

Ion Ratio Lower Upper

91 100

92 66.8 50.0 75.0

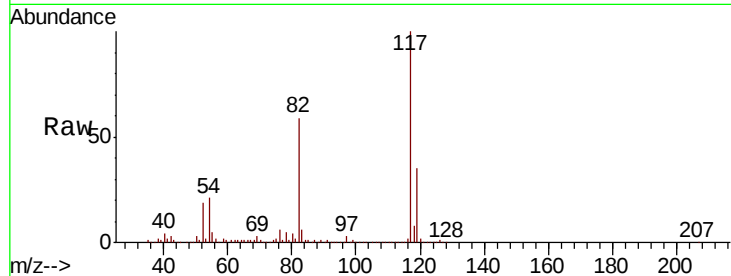




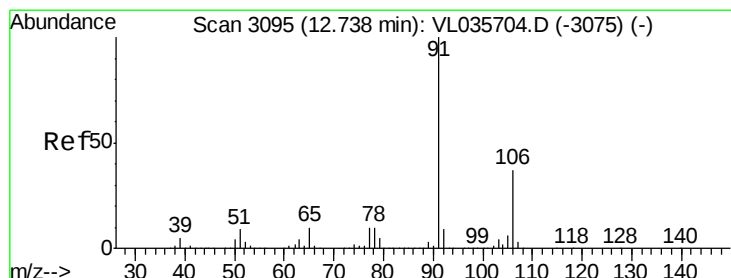
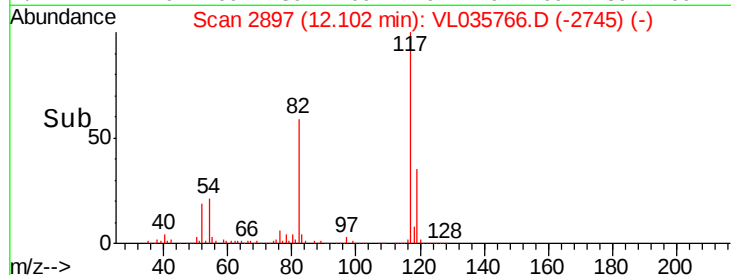
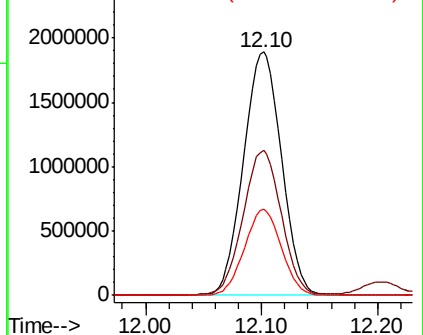
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2897
Delta R.T. -0.01 min
Lab File: VL035766.D
Acq: 12 Oct 2020 17:58

Instrument :
MSVOA_L
ClientSampleId :
4

Tot Ion:117 Resp: 4325516
Ion Ratio Lower Upper
117 100
82 59.7 46.1 69.1
119 34.3 28.0 42.0

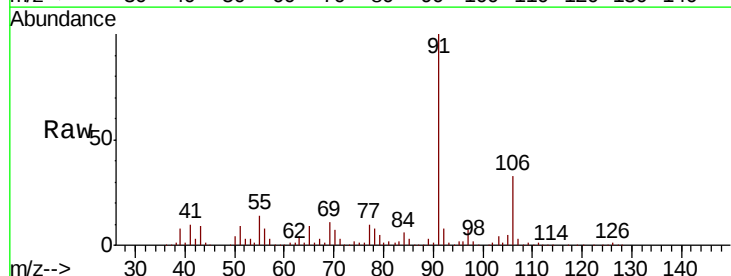


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

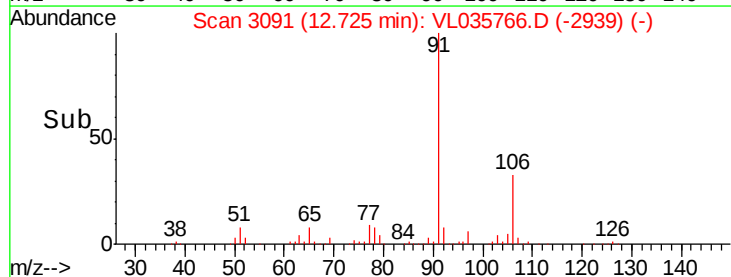
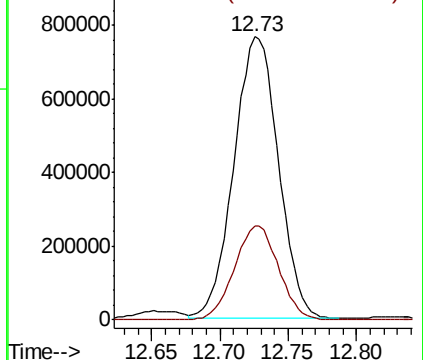


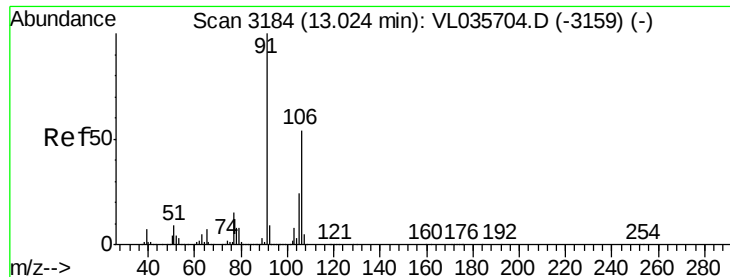
#58
Ethyl Benzene
Concen: 4.006 ppbv
RT: 12.73 min Scan# 3091
Delta R.T. -0.01 min
Lab File: VL035766.D
Acq: 12 Oct 2020 17:58

Tgt Ion: 91 Resp: 1739358
Ion Ratio Lower Upper
91 100
106 33.4 29.7 44.5



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V

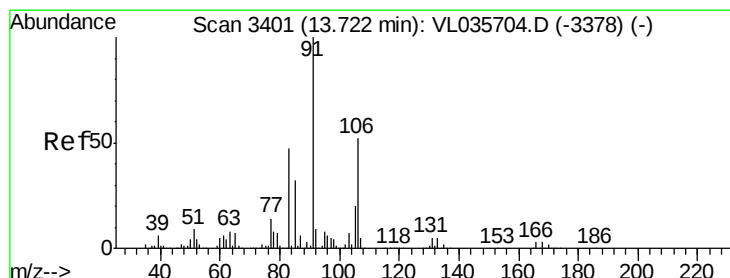
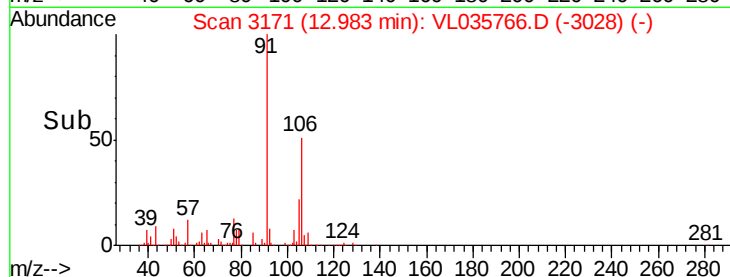
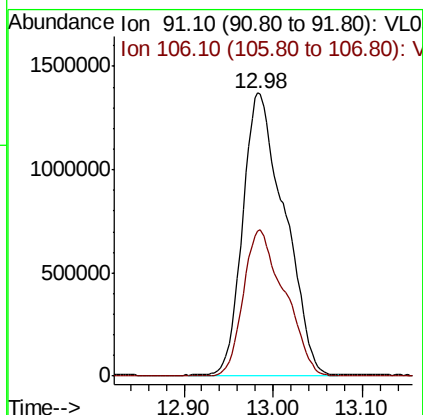
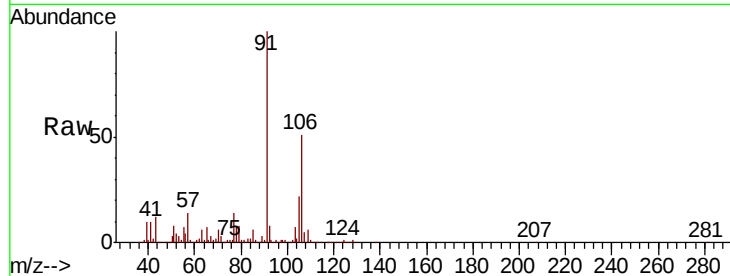




#59
m/p-Xylene
Concen: 11.741 ppbv
RT: 12.98 min Scan# 3171
Delta R.T. -0.04 min
Lab File: VL035766.D
Acq: 12 Oct 2020 17:58

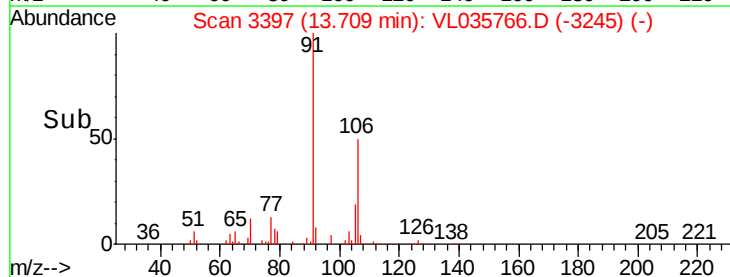
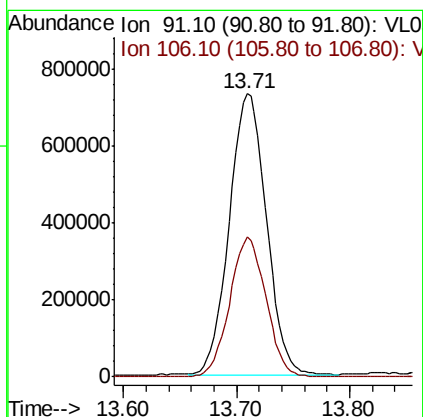
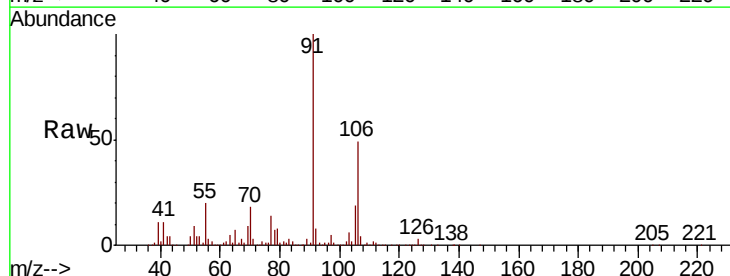
Instrument :
MSVOA_L
ClientSampleId :
4

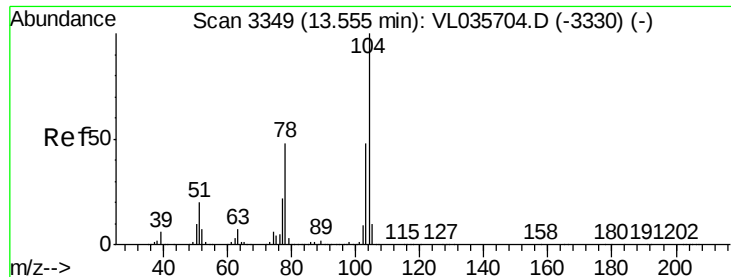
Tot Ion: 91 Resp: 4451475
Ion Ratio Lower Upper
91 100
106 51.2 41.4 62.0



#60
o-Xylene
Concen: 4.341 ppbv
RT: 13.71 min Scan# 3397
Delta R.T. -0.01 min
Lab File: VL035766.D
Acq: 12 Oct 2020 17:58

Tgt Ion: 91 Resp: 1664808
Ion Ratio Lower Upper
91 100
106 48.6 25.0 75.0





#61

Stvrene

Concen: 0.514 ppbv

RT: 13.55 min Scan# 3347

Delta R.T. -0.01 min

Lab File: VL035766.D

Acq: 12 Oct 2020 17:58

Instrument :
MSVOA_L
ClientSampleId :
4

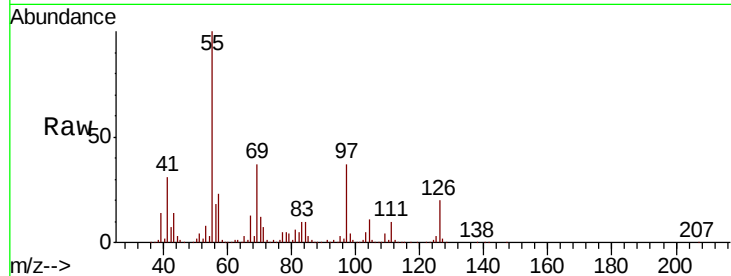
Tot Ion:104 Resp: 136420

Ion Ratio Lower Upper

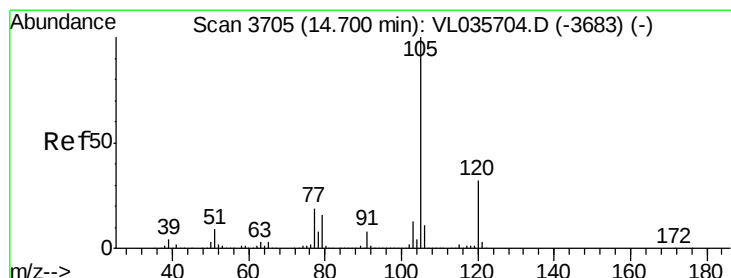
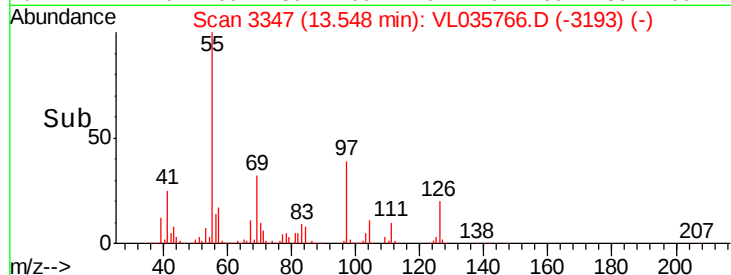
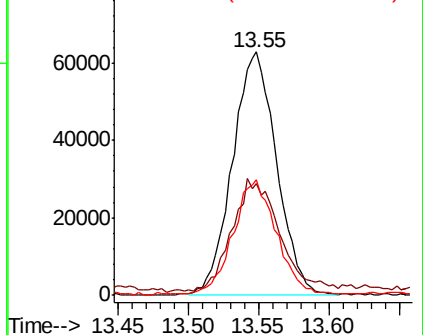
104 100

78 53.1 37.2 55.8

103 46.3 38.2 57.2



Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VL0
Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 0.362 ppbv

RT: 14.68 min Scan# 3700

Delta R.T. -0.02 min

Lab File: VL035766.D

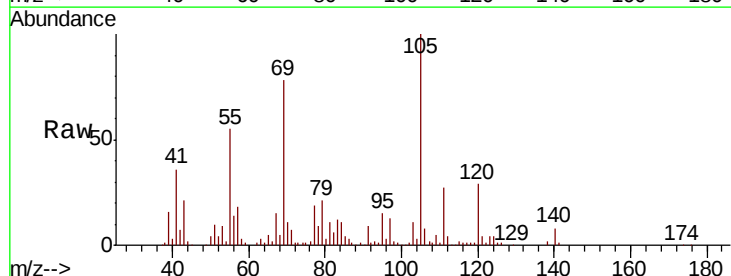
Acq: 12 Oct 2020 17:58

Tgt Ion:105 Resp: 215223

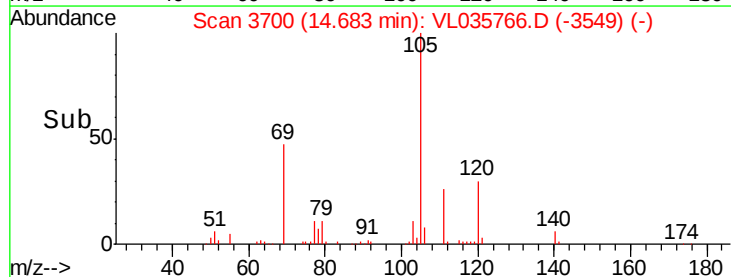
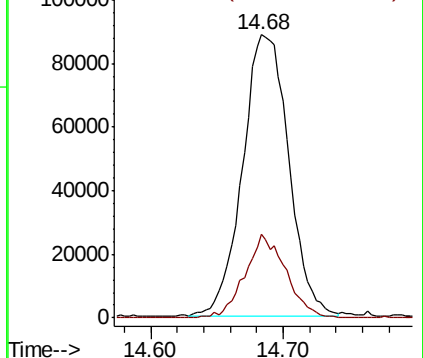
Ion Ratio Lower Upper

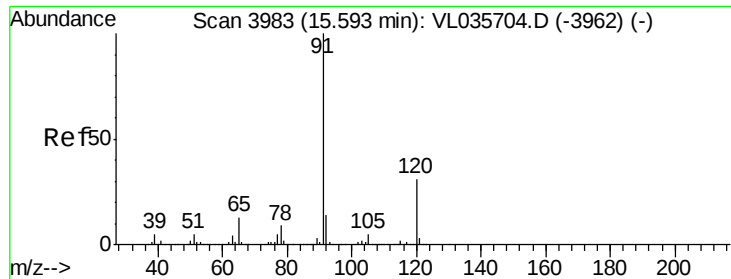
105 100

120 26.5 24.1 36.1



Abundance Ion 105.10 (104.80 to 105.80): V
Ion 120.20 (119.90 to 120.90): V





#64

n-propylbenzene

Concen: 0.887 ppbv

RT: 15.58 min Scan# 3980

Delta R.T. -0.01 min

Lab File: VL035766.D

Acq: 12 Oct 2020 17:58

Instrument :

MSVOA_L

ClientSampleId :

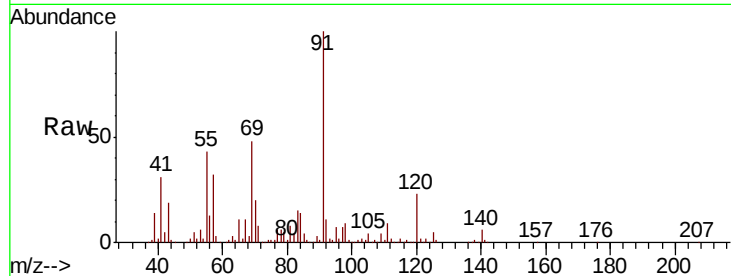
4

Tot Ion:120 Resp: 154504

Ion Ratio Lower Upper

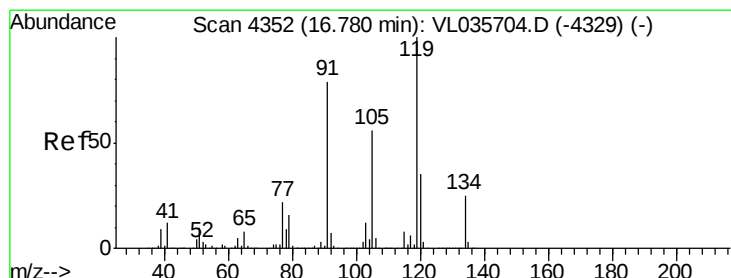
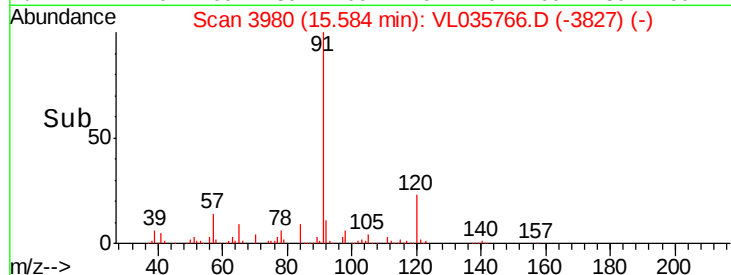
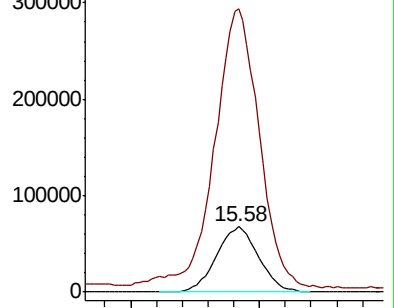
120 100

91 456.7 300.4 450.6#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#65

tert-Butylbenzene

Concen: 0.415 ppbv

RT: 16.79 min Scan# 4355

Delta R.T. 0.01 min

Lab File: VL035766.D

Acq: 12 Oct 2020 17:58

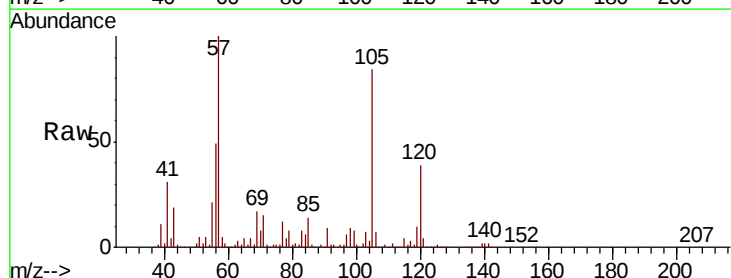
Tgt Ion:119 Resp: 224651

Ion Ratio Lower Upper

119 100

91 94.9 62.4 93.6#

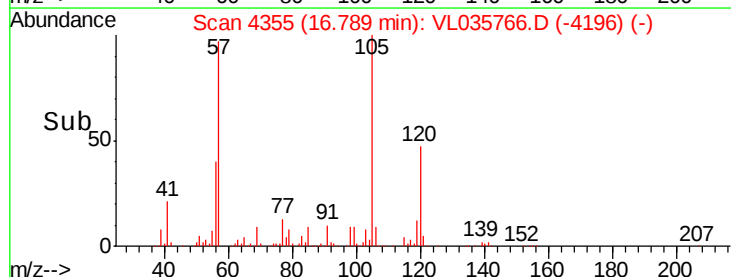
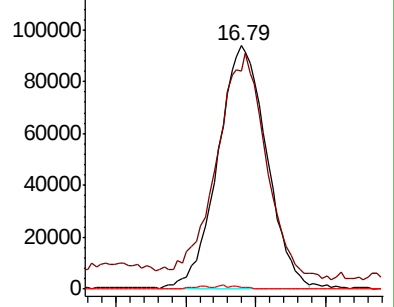
134 1.2 18.2 27.2#

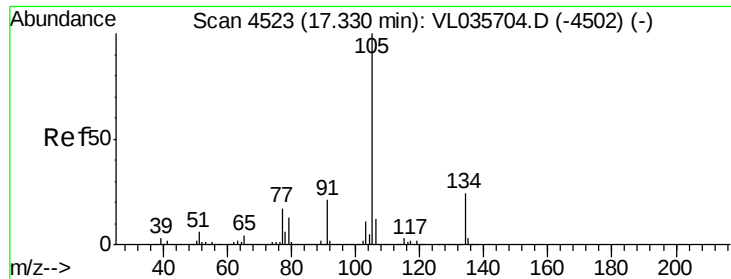


Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V





#67

sec-Butylbenzene

Concen: 0.143 ppbv

RT: 17.33 min Scan# 4522

Delta R.T. -0.00 min

Lab File: VL035766.D

Acq: 12 Oct 2020 17:58

Instrument :

MSVOA_L

ClientSampled :

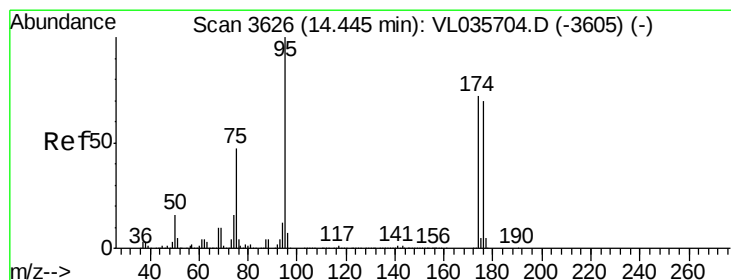
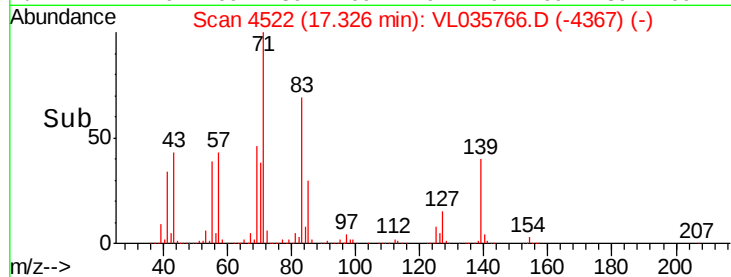
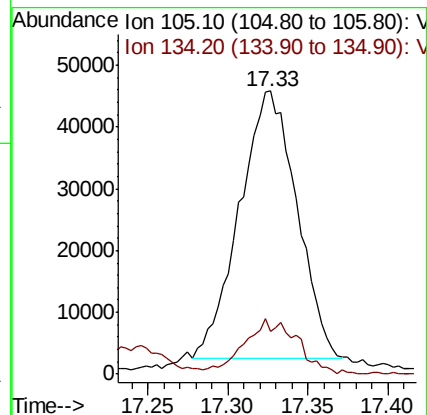
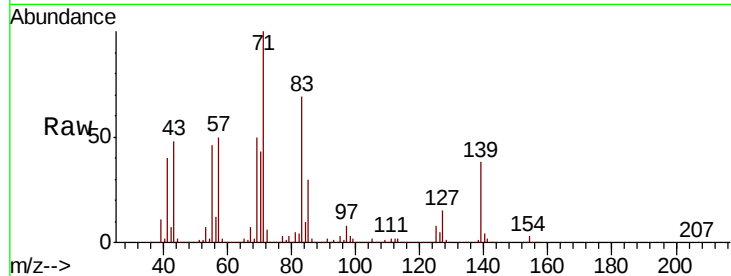
4

Tot Ion:105 Resp: 106528

Ion Ratio Lower Upper

105 100

134 19.2 17.6 26.4



#68

1-Bromo-4-Fluorobenzene

Concen: 11.238 ppbv

RT: 14.44 min Scan# 3623

Delta R.T. -0.01 min

Lab File: VL035766.D

Acq: 12 Oct 2020 17:58

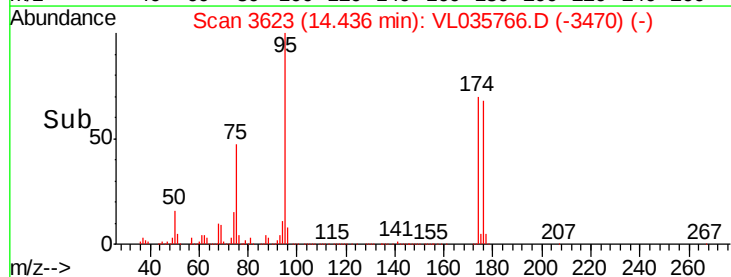
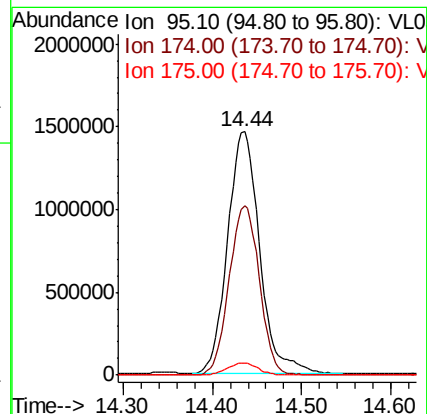
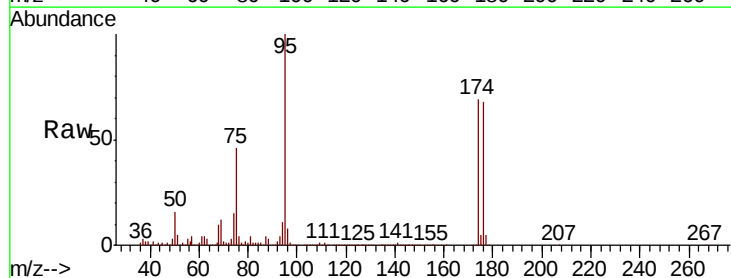
Tgt Ion: 95 Resp: 3642470

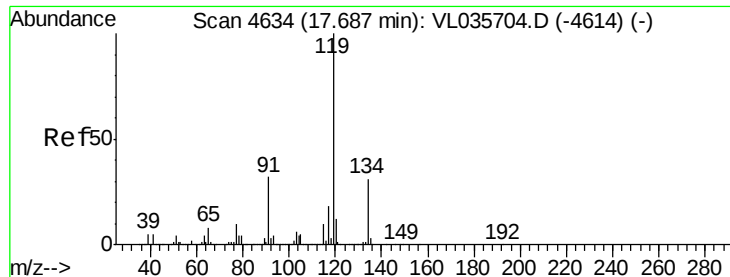
Ion Ratio Lower Upper

95 100

174 66.4 59.6 89.4

175 4.8 4.2 6.4





#69

p-Isopropyltoluene

Concen: 0.146 ppbv

RT: 17.69 min Scan# 4634

Delta R.T. 0.00 min

Lab File: VL035766.D

Acq: 12 Oct 2020 17:58

Instrument :

MSVOA_L

ClientSampled :

4

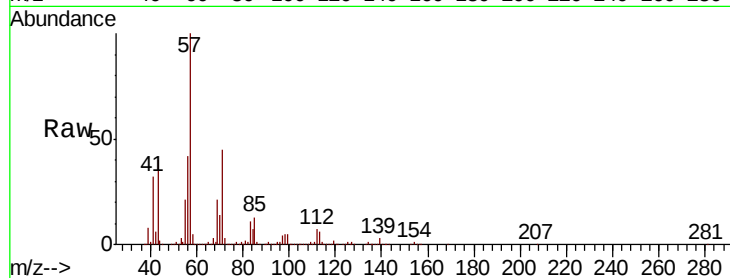
Tot Ion:119 Resp: 88780

Ion Ratio Lower Upper

119 100

134 27.0 23.9 35.9

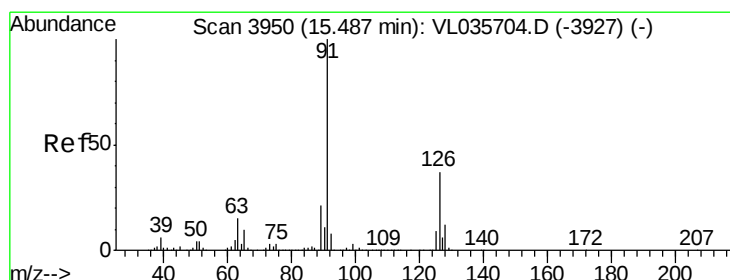
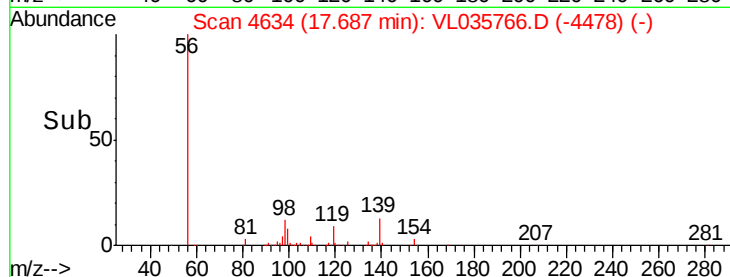
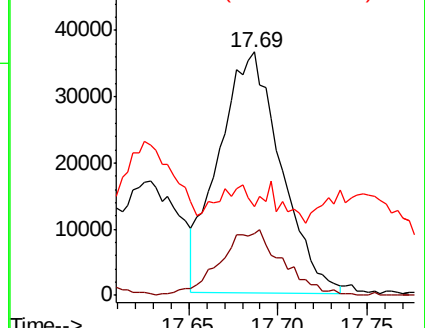
91 20.5 23.8 35.6#



Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): VLO



#71

2-Chlorotoluene

Concen: 0.575 ppbv

RT: 15.34 min Scan# 3903

Delta R.T. -0.15 min

Lab File: VL035766.D

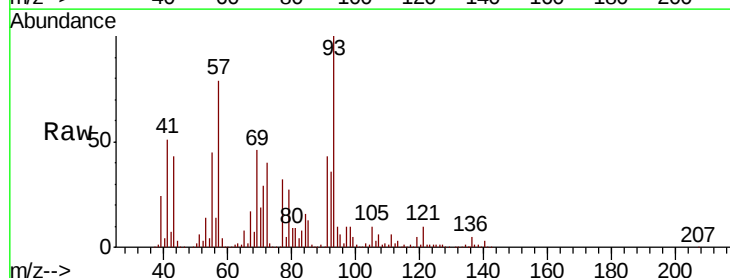
Acq: 12 Oct 2020 17:58

Tgt Ion: 91 Resp: 249463

Ion Ratio Lower Upper

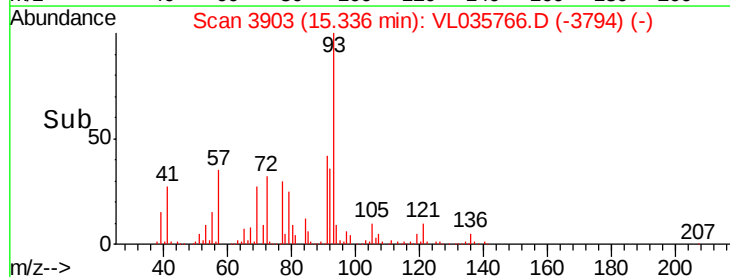
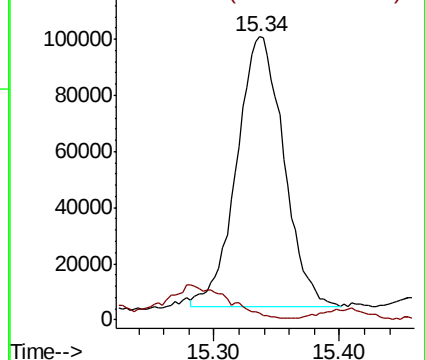
91 100

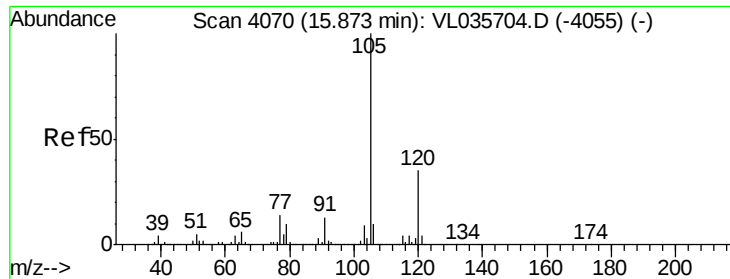
126 15.9 14.4 57.4



Abundance Ion 91.10 (90.80 to 91.80): VLO

Ion 126.10 (125.80 to 126.80): V





#72

4-Ethyltoluene

Concen: 1.606 ppbv

RT: 15.86 min Scan# 4067

Delta R.T. -0.01 min

Lab File: VL035766.D

Acq: 12 Oct 2020 17:58

Instrument :

MSVOA_L

ClientSampleId :

4

Tot Ion:105 Resp: 729798

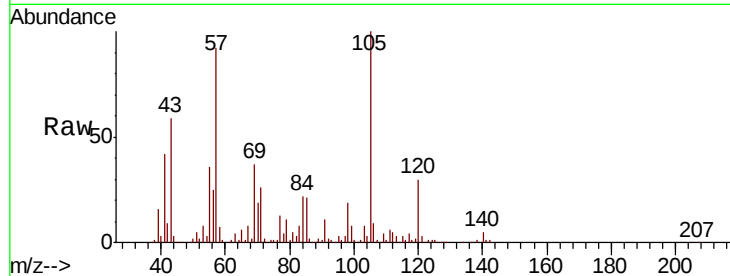
Ion Ratio Lower Upper

105 100

120 31.6 26.5 39.7

91 11.1 10.2 15.2

77 15.2 10.3 15.5



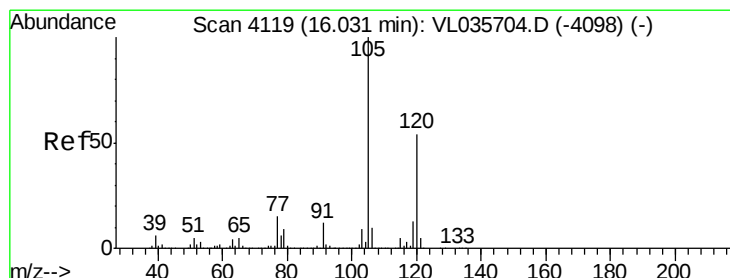
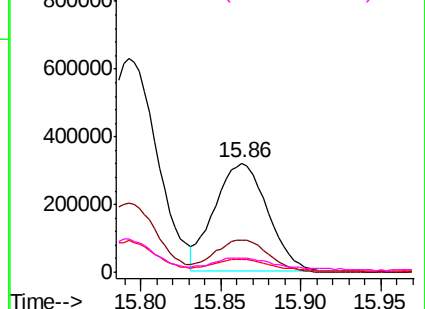
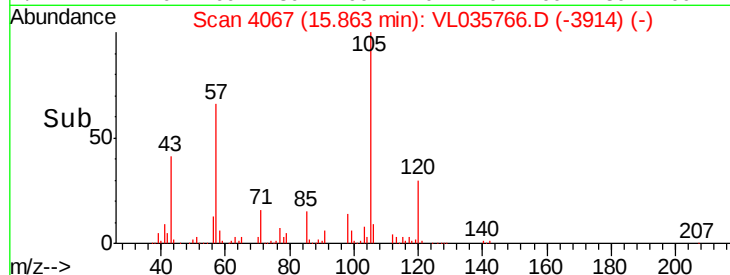
Abundance

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: 1.294 ppbv

RT: 16.02 min Scan# 4117

Delta R.T. -0.01 min

Lab File: VL035766.D

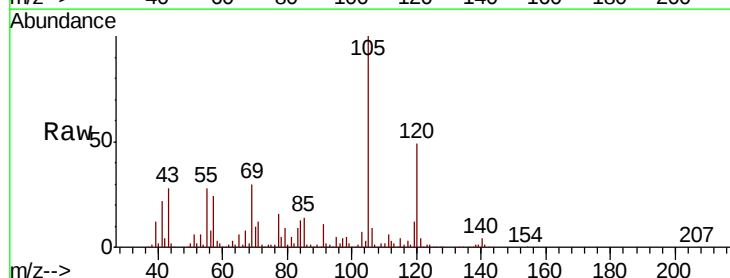
Acq: 12 Oct 2020 17:58

Tgt Ion:105 Resp: 555735

Ion Ratio Lower Upper

105 100

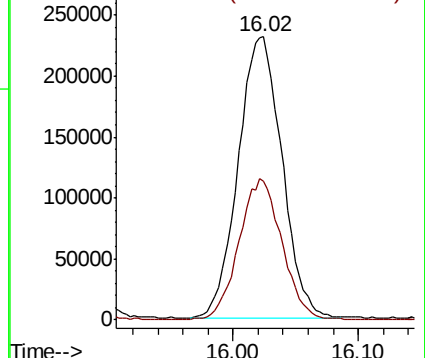
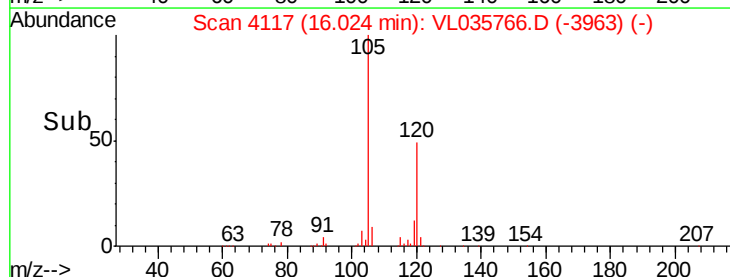
120 49.3 43.0 64.4

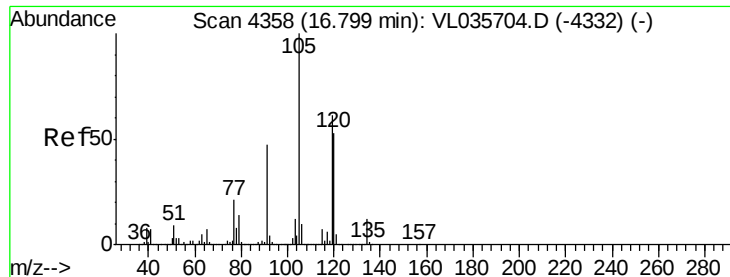


Abundance

Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

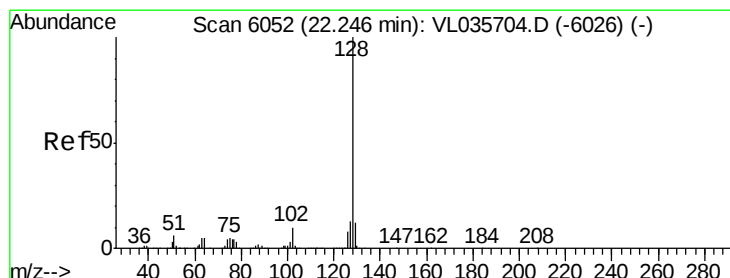
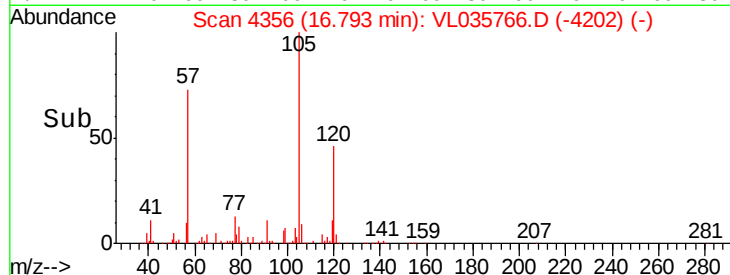
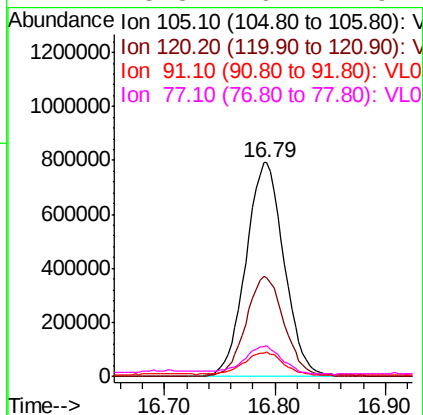
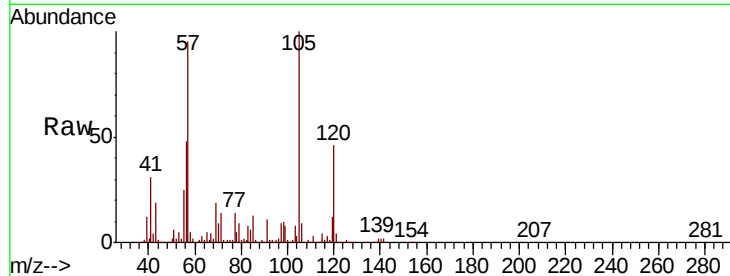




#74
 1,2,4-Trimethylbenzene
 Concen: 3.895 ppbv
 RT: 16.79 min Scan# 4356
 Delta R.T. -0.01 min
 Lab File: VL035766.D
 Acq: 12 Oct 2020 17:58

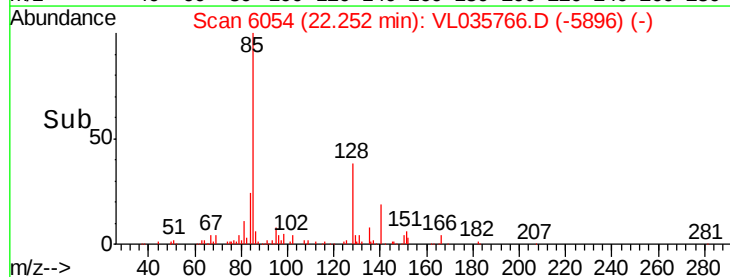
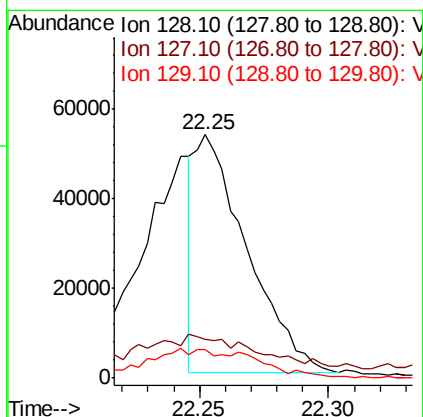
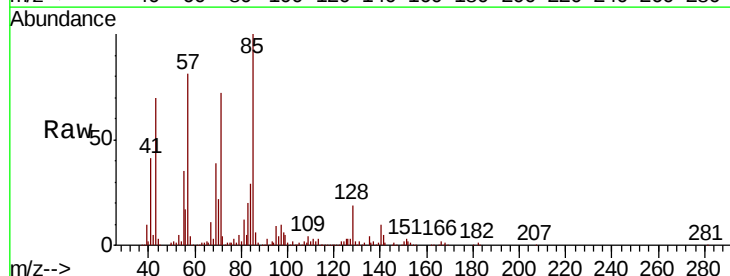
Instrument :
 MSVOA_L
 ClientSampleId :
 4

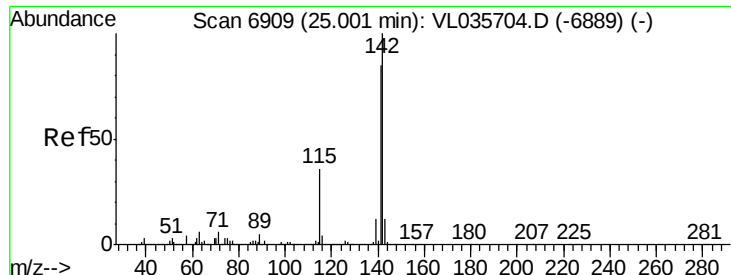
Tot Ion:105 Resp: 1885296
 Ion Ratio Lower Upper
 105 100
 120 46.3 42.5 63.7
 91 10.9 37.7 56.5#
 77 13.3 16.7 25.1#



#79
 Naphthalene
 Concen: 0.160 ppbv
 RT: 22.25 min Scan# 6054
 Delta R.T. 0.01 min
 Lab File: VL035766.D
 Acq: 12 Oct 2020 17:58

Tgt Ion:128 Resp: 73930
 Ion Ratio Lower Upper
 128 100
 127 11.4 10.6 15.8
 129 11.3 9.4 14.0





#80

Naphthalene, 2-methyl-

Concen: 0.184 ppbv

RT: 25.00 min Scan# 6909

Delta R.T. 0.00 min

Lab File: VL035766.D

Acq: 12 Oct 2020 17:58

Instrument :

MSVOA_L

ClientSampleId :

4

Tot Ion:142 Resp: 20021

Ion Ratio Lower Upper

142 100

141 73.0 68.2 102.4

115 62.0 27.8 41.6#

