

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120720\
 Data File : VL036085.D
 Acq On : 8 Dec 2020 4:25
 Operator : SY/AP
 Sample : L4948-04
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-5B

Quant Time: Dec 08 08:41:57 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 07 16:56:49 2020
 QLast Update : Mon Dec 07 16:56:49 2020
 Response via : Initial Calibration

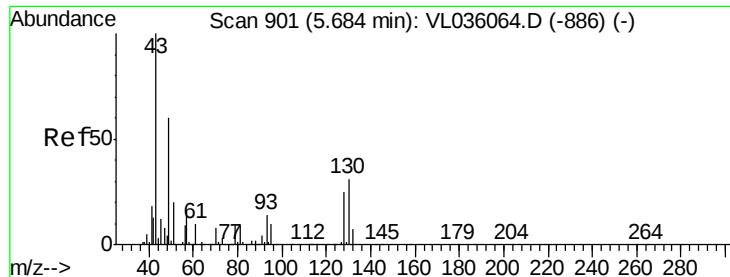
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1202861	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	2576133	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2299488	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	1922808	10.53	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	39414	0.281	ppbv	100
3) Chlorodifluoromethane	2.99	51	66290	0.483	ppbv	94
4) Chloromethane	3.14	50	15920	0.236	ppbv	91
9) Propene	3.21	41	237767	3.458	ppbv	95
10) Heptane	8.15	43	419925	2.392	ppbv	98
11) Trichlorofluoromethane	3.96	101	69426	0.421	ppbv	97
13) Ethanol	3.62	45	3243885	342.272	ppbv	85
15) Acetone	3.86	43	2600111	17.986	ppbv #	89
16) 1,3-Butadiene	3.31	39	128889	1.770	ppbv #	39
19) Isopropyl Alcohol	4.00	45	138137	1.563	ppbv #	100
20) Methylene Chloride	4.36	84	473305	7.990	ppbv	96
21) Allyl Chloride	4.42	41	2939	0.031	ppbv #	18
23) Vinyl Acetate	5.07	43	143969	0.748	ppbv #	1
25) Ethyl Acetate	5.71	43	739257	2.560	ppbv #	81
26) Hexane	5.71	57	929221	7.149	ppbv #	40
30) Cyclohexane	7.15	84	749276	7.847	ppbv	95
34) 2-Butanone	5.27	43	111107	0.650	ppbv	95
36) Benzene	6.91	78	258896	1.186	ppbv	93
39) 1,2-Dichloropropane	7.24	63	10676	0.124	ppbv #	65
41) Tetrahydrofuran	6.09	42	5164	0.051	ppbv #	1
42) Bromodichloromethane	7.81	83	17121	0.102	ppbv #	25
44) 2,2,4-Trimethylpentane	7.89	57	646615	1.635	ppbv #	82
50) 4-Methyl-2-Pentanone	8.78	43	40805	0.160	ppbv #	86
53) Toluene	9.83	91	1541397	6.287	ppbv	99
58) Ethyl Benzene	12.74	91	797005	2.529	ppbv	96
59) m/p-Xylene	12.99	91	2915155	10.983	ppbv	97
60) o-Xylene	13.72	91	1136944	4.546	ppbv	99
62) Isopropylbenzene	14.70	105	12942	0.035	ppbv #	1
64) n-propylbenzene	15.59	120	9291	0.104	ppbv #	1
65) tert-Butylbenzene	16.79	119	43442	0.143	ppbv #	45
69) p-Isopropyltoluene	17.68	119	17783	0.053	ppbv #	50
70) n-Butylbenzene	18.58	91	15155	0.045	ppbv #	32
71) 2-Chlorotoluene	15.59	91	56037	0.200	ppbv #	47
72) 4-Ethyltoluene	15.87	105	88935	0.328	ppbv #	69
73) 1,3,5-Trimethylbenzene	16.03	105	115343	0.446	ppbv	97
74) 1,2,4-Trimethylbenzene	16.79	105	427831	1.647	ppbv #	67
79) Naphthalene	22.24	128	41858	0.317	ppbv	97
80) Naphthalene,2-methyl-	25.02	142	5916	0.200	ppbv #	69

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 901

Delta R.T. 0.00 min

Lab File: VL036085.D

Acq: 8 Dec 2020 4:25

Instrument :

MSVOA_L

ClientSampleId :

IA-5B

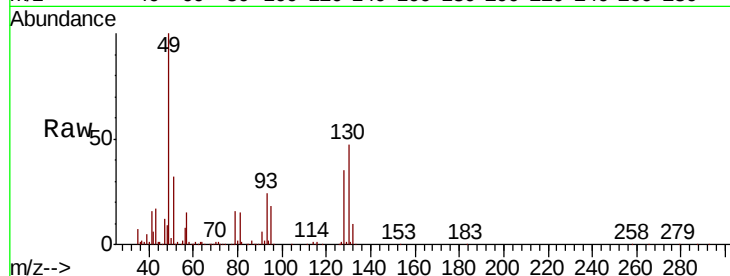
Tot Ion: 49 Resp: 1202861

Ion Ratio Lower Upper

49 100

128 38.0 21.1 63.1

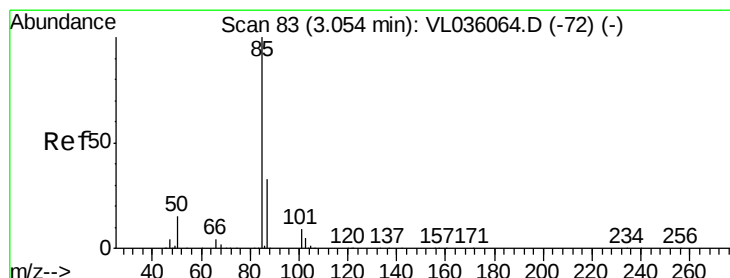
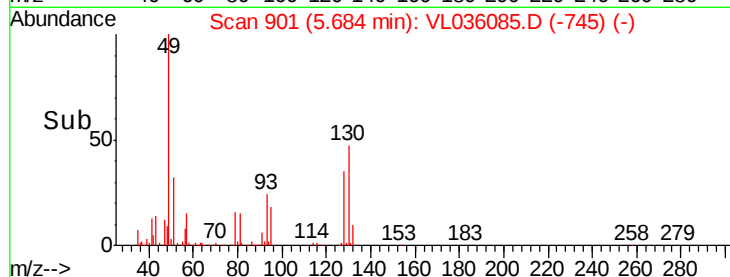
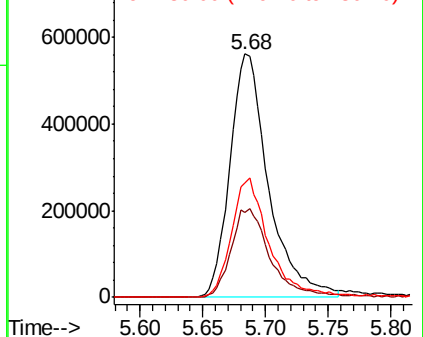
130 49.0 27.1 81.3



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



#2

Dichlorodifluoromethane

Concen: 0.281 ppbv

RT: 3.05 min Scan# 83

Delta R.T. 0.00 min

Lab File: VL036085.D

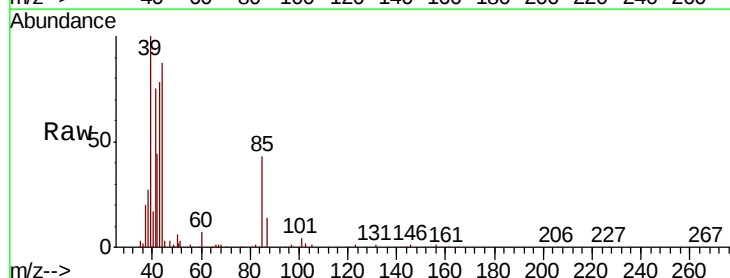
Acq: 8 Dec 2020 4:25

Tgt Ion: 85 Resp: 39414

Ion Ratio Lower Upper

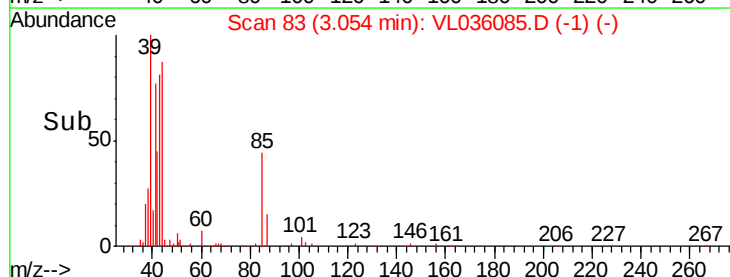
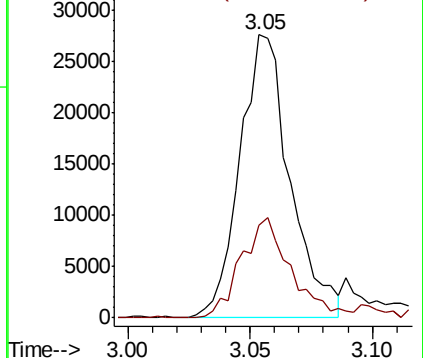
85 100

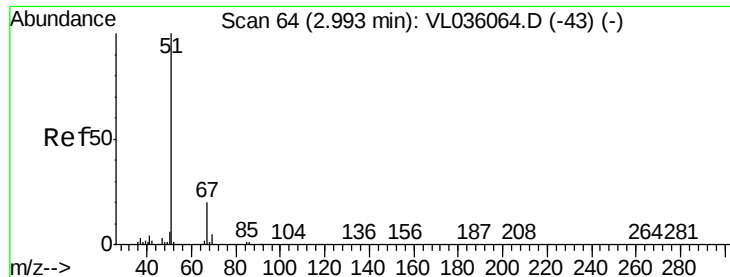
87 32.9 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.483 ppbv

RT: 2.99 min Scan# 63

Delta R.T. -0.00 min

Lab File: VL036085.D

Acq: 8 Dec 2020 4:25

Instrument :

MSVOA_L

ClientSampleId :

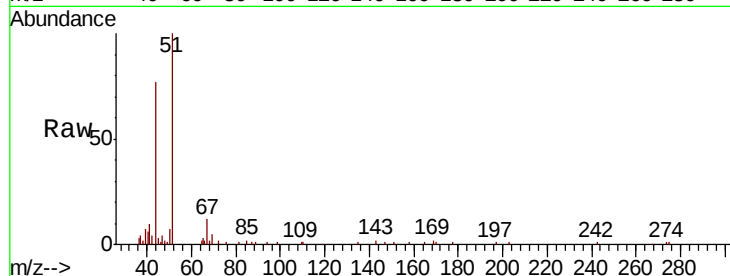
IA-5B

Tot Ion: 51 Resp: 66290

Ion Ratio Lower Upper

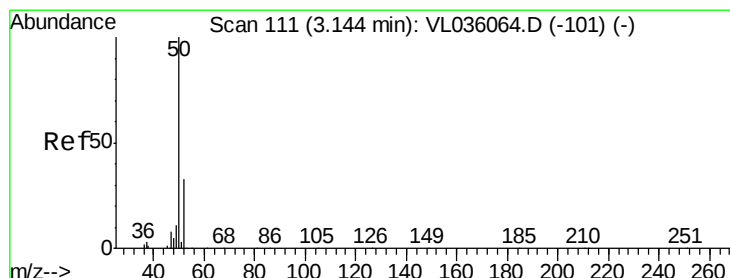
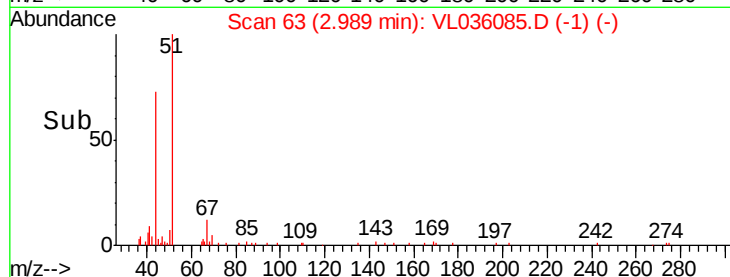
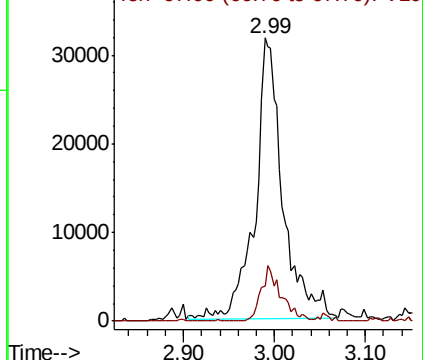
51 100

67 15.4 14.3 21.5



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.236 ppbv

RT: 3.14 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL036085.D

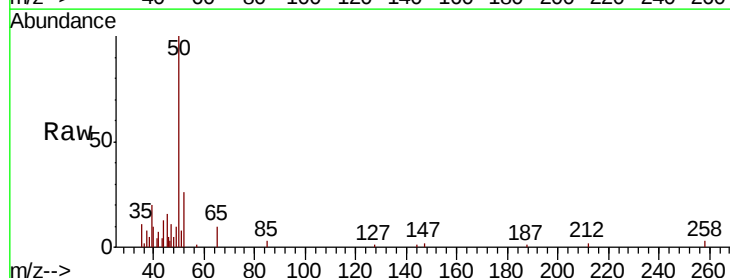
Acq: 8 Dec 2020 4:25

Tgt Ion: 50 Resp: 15920

Ion Ratio Lower Upper

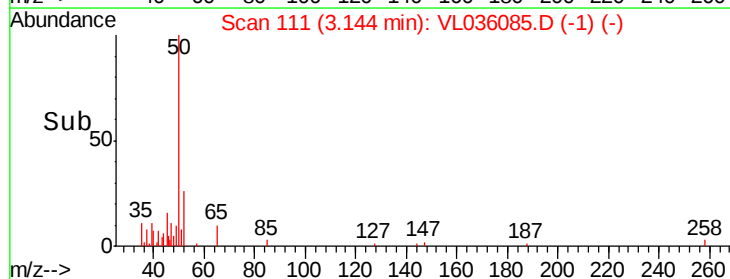
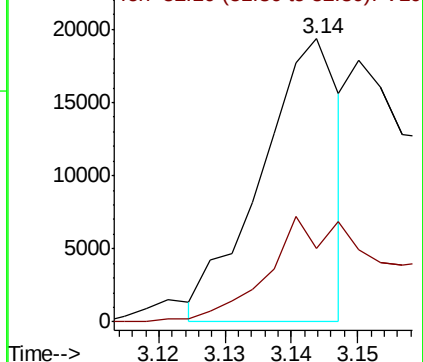
50 100

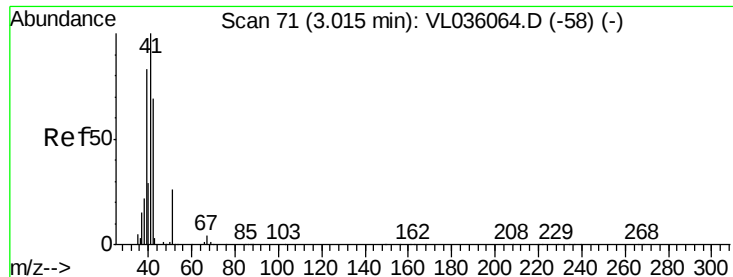
52 27.6 26.1 39.1



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 3.458 ppbv

RT: 3.21 min Scan# 133

Delta R.T. 0.20 min

Lab File: VL036085.D

Acq: 8 Dec 2020 4:25

Instrument :

MSVOA_L

ClientSampleId :

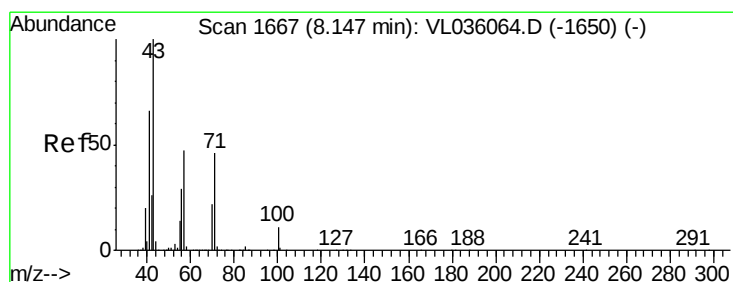
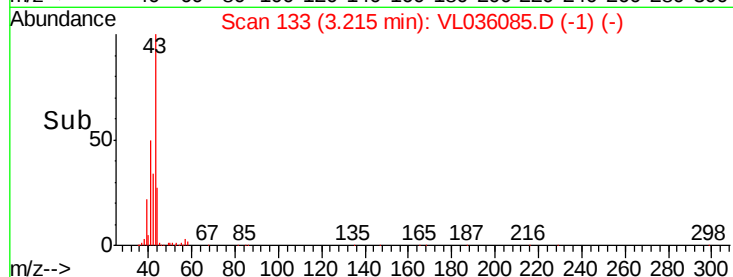
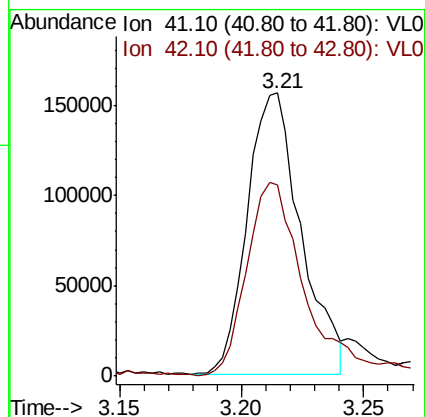
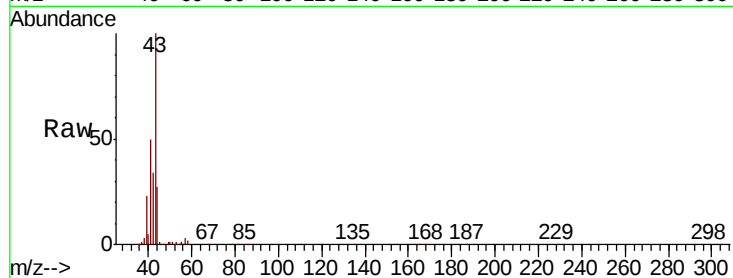
IA-5B

Tot Ion: 41 Resp: 237767

Ion Ratio Lower Upper

41 100

42 75.6 57.0 85.6



#10

Heptane

Concen: 2.392 ppbv

RT: 8.15 min Scan# 1667

Delta R.T. 0.00 min

Lab File: VL036085.D

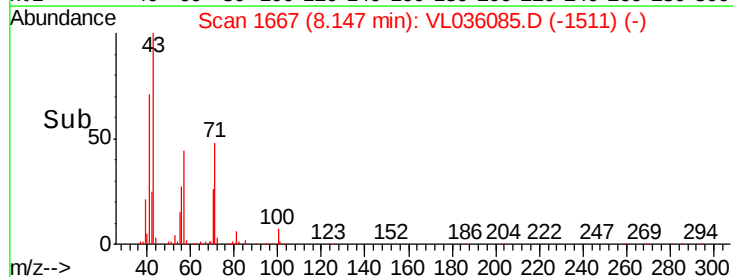
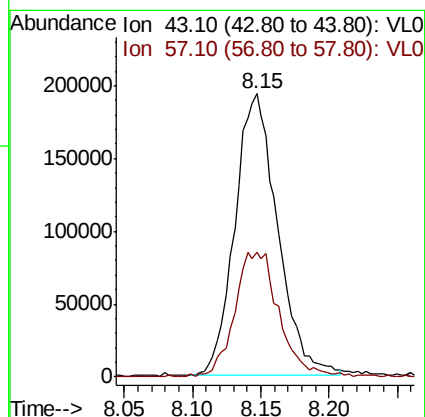
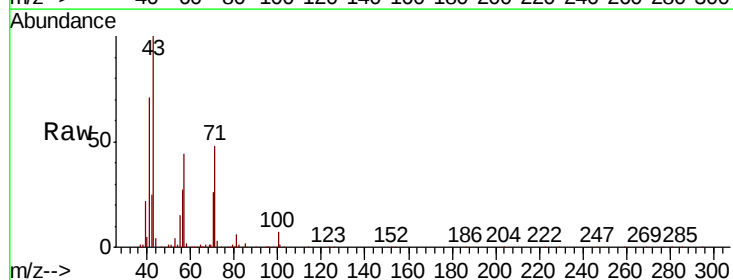
Acq: 8 Dec 2020 4:25

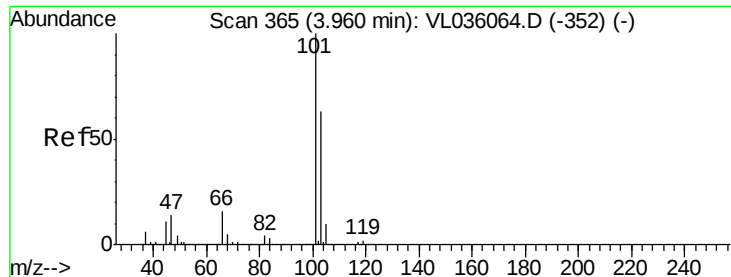
Tgt Ion: 43 Resp: 419925

Ion Ratio Lower Upper

43 100

57 46.1 37.9 56.9

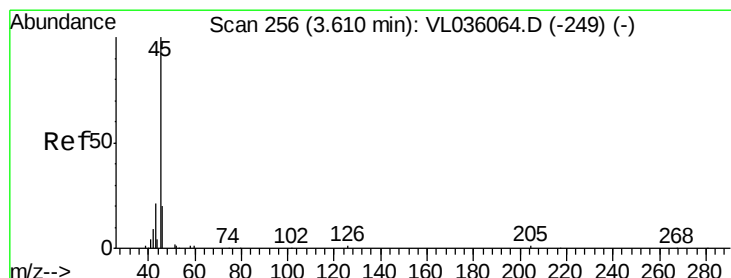
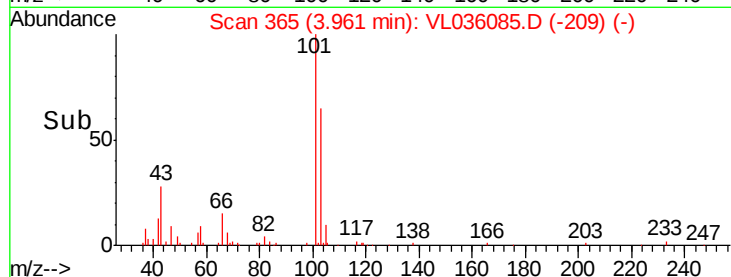
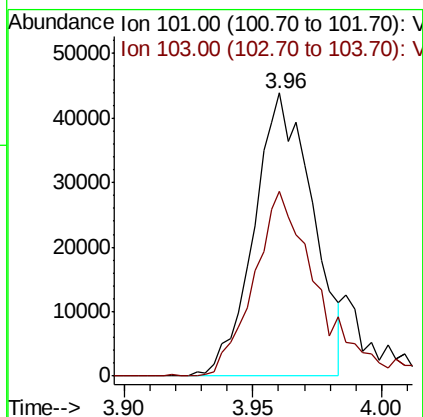
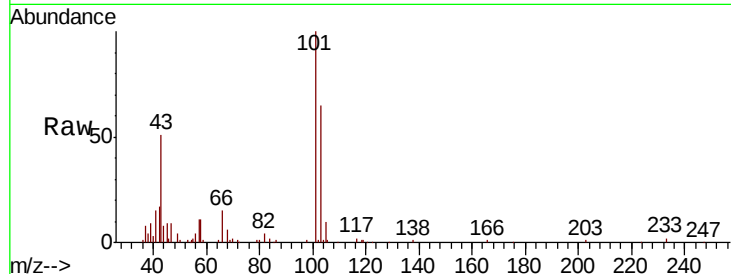




#11
 Trichlorofluoromethane
 Concen: 0.421 ppbv
 RT: 3.96 min Scan# 365
 Delta R.T. 0.00 min
 Lab File: VL036085.D
 Acq: 8 Dec 2020 4:25

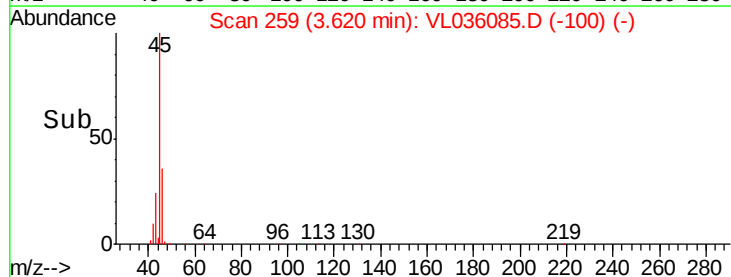
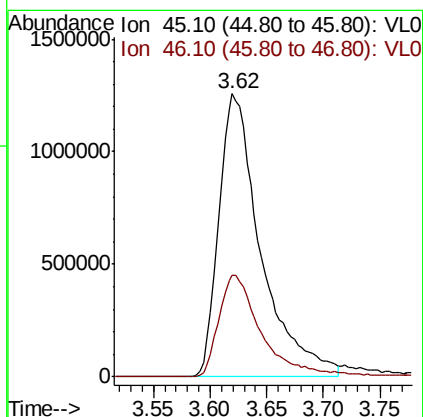
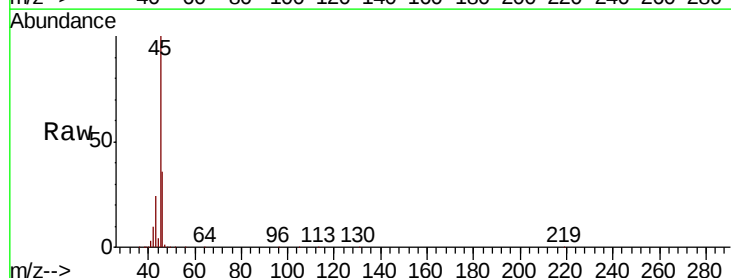
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-5B

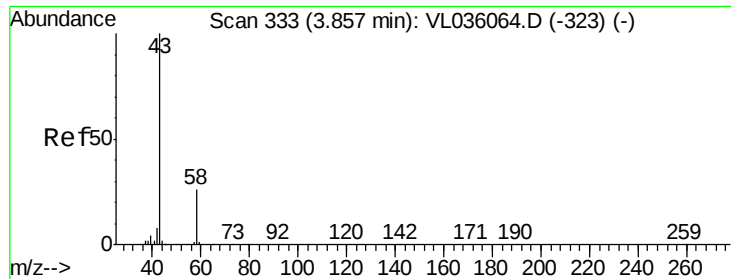
Tot Ion:101 Resp: 69426
 Ion Ratio Lower Upper
 101 100
 103 65.3 50.3 75.5



#13
 Ethanol
 Concen: 342.272 ppbv
 RT: 3.62 min Scan# 259
 Delta R.T. 0.01 min
 Lab File: VL036085.D
 Acq: 8 Dec 2020 4:25

Tgt Ion: 45 Resp: 3243885
 Ion Ratio Lower Upper
 45 100
 46 37.5 19.0 75.8





#15

Acetone

Concen: 17.986 ppbv

RT: 3.86 min Scan# 333

Delta R.T. 0.00 min

Lab File: VL036085.D

Acq: 8 Dec 2020 4:25

Instrument :

MSVOA_L

ClientSampleID :

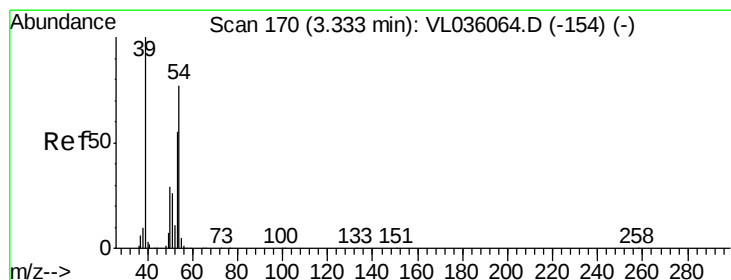
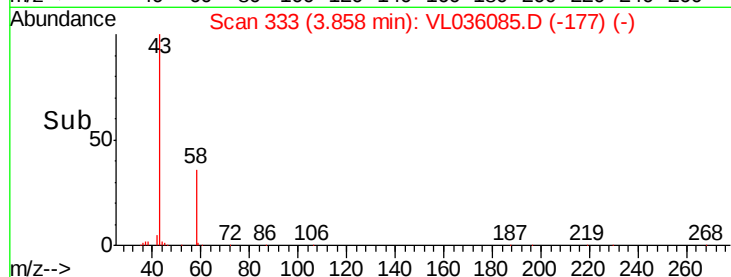
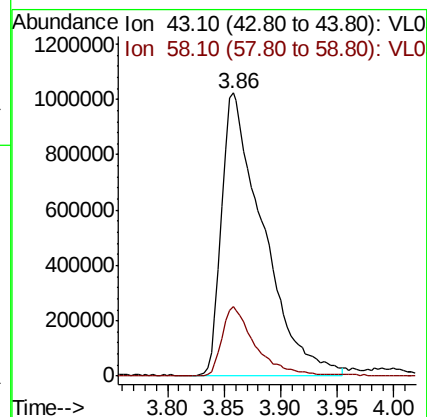
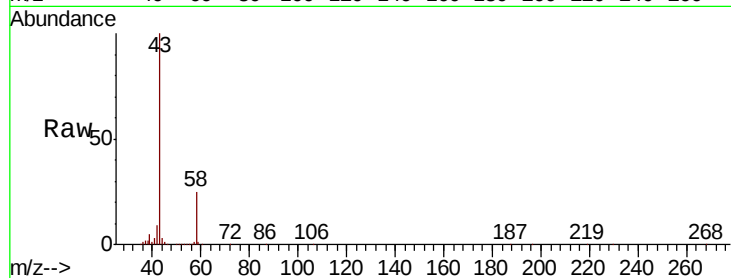
IA-5B

Tot Ion: 43 Resp: 2600111

Ion Ratio Lower Upper

43 100

58 20.7 20.9 31.3#



#16

1,3-Butadiene

Concen: 1.770 ppbv

RT: 3.31 min Scan# 163

Delta R.T. -0.02 min

Lab File: VL036085.D

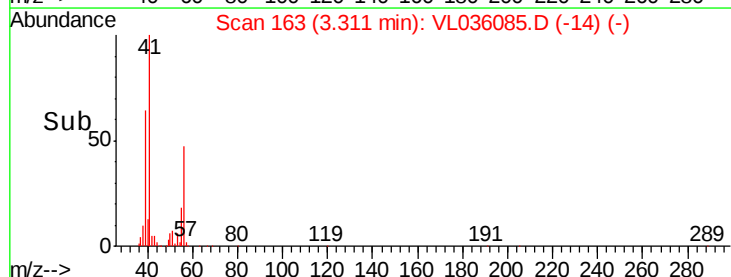
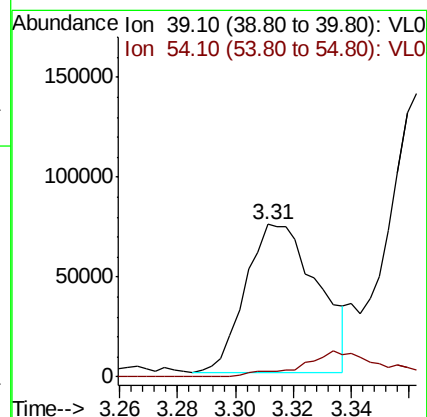
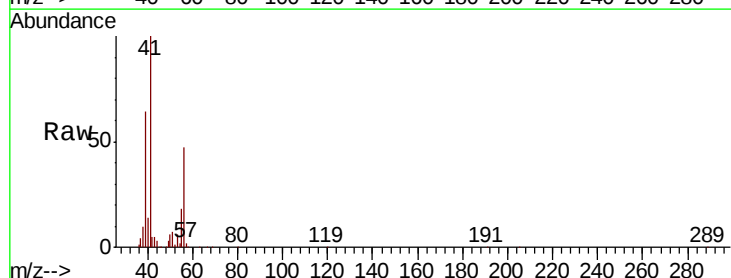
Acq: 8 Dec 2020 4:25

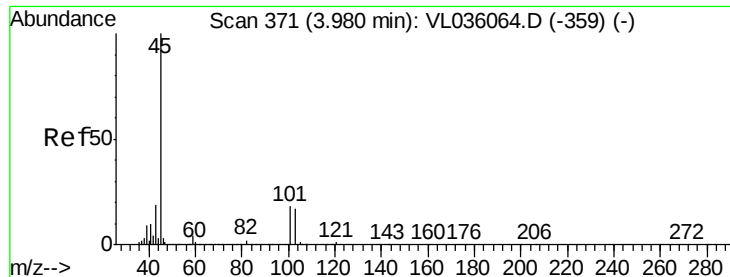
Tgt Ion: 39 Resp: 128889

Ion Ratio Lower Upper

39 100

54 25.1 62.1 93.1#





#19

Isopropyl Alcohol

Concen: 1.563 ppbv

RT: 4.00 min Scan# 376

Delta R.T. 0.02 min

Lab File: VL036085.D

Acq: 8 Dec 2020 4:25

Instrument :

MSVOA_L

ClientSampleId :

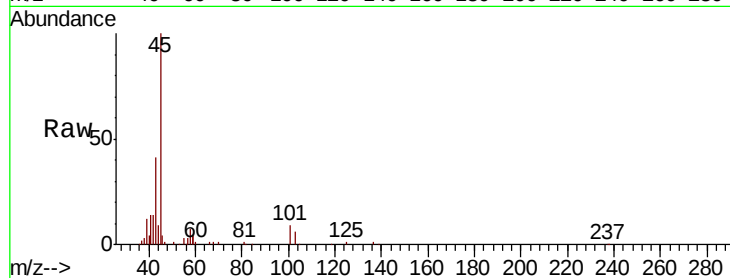
IA-5B

Tot Ion: 45 Resp: 138137

Ion Ratio Lower Upper

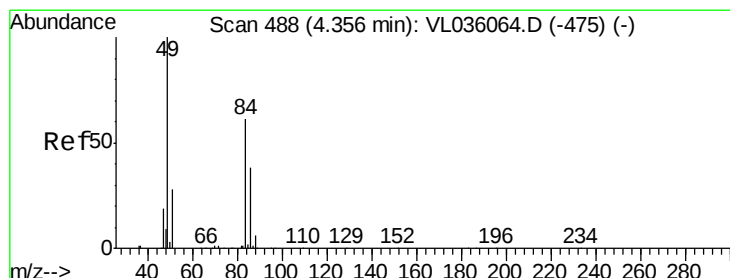
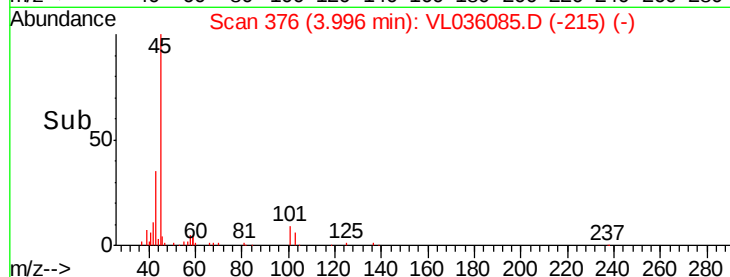
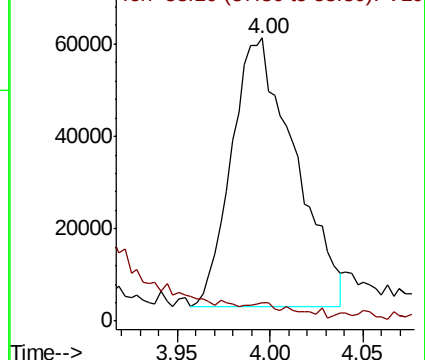
45 100

58 391.3 0.0 0.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 7.990 ppbv

RT: 4.36 min Scan# 488

Delta R.T. 0.00 min

Lab File: VL036085.D

Acq: 8 Dec 2020 4:25

Tgt Ion: 84 Resp: 473305

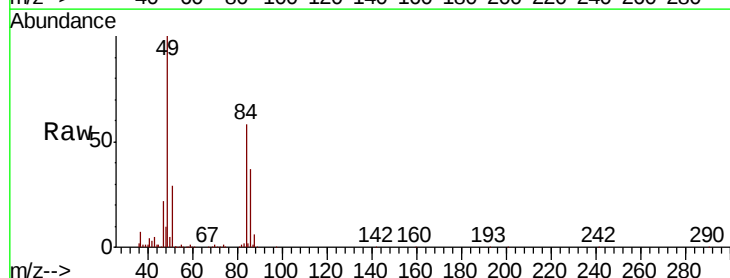
Ion Ratio Lower Upper

84 100

49 173.2 133.0 199.4

51 49.8 38.9 58.3

86 64.6 48.8 73.2

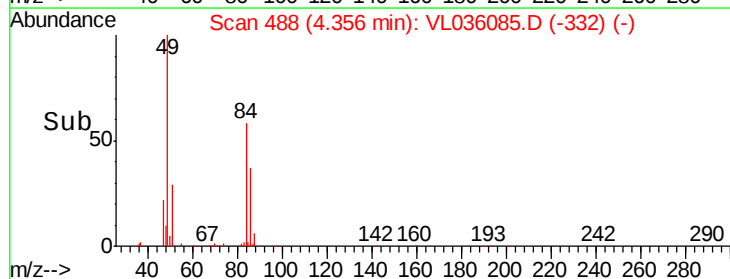
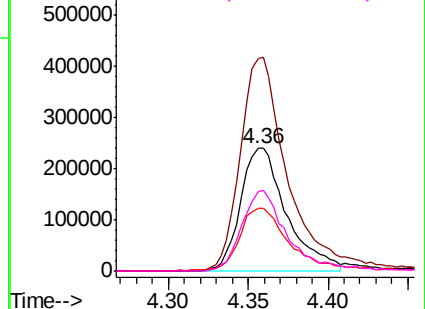


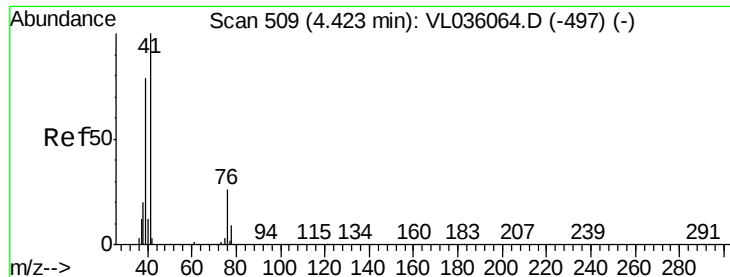
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





#21

Allvl Chloride

Concen: 0.031 ppbv

RT: 4.42 min Scan# 509

Delta R.T. 0.00 min

Lab File: VL036085.D

Acq: 8 Dec 2020 4:25

Instrument :

MSVOA_L

ClientSampled :

IA-5B

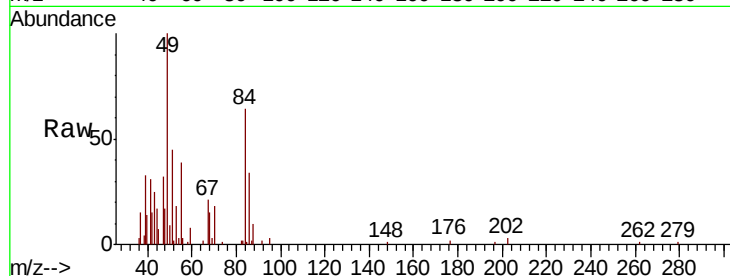
Tot Ion: 41 Resp: 2939

Ion Ratio Lower Upper

41 100

76 0.0 21.0 31.4#

39 0.0 66.0 99.0#

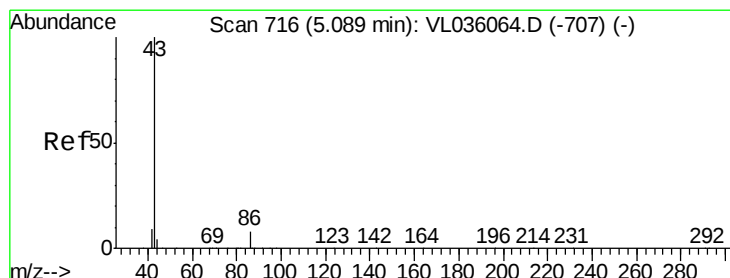
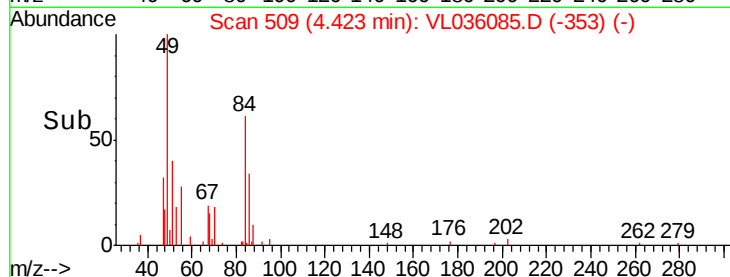
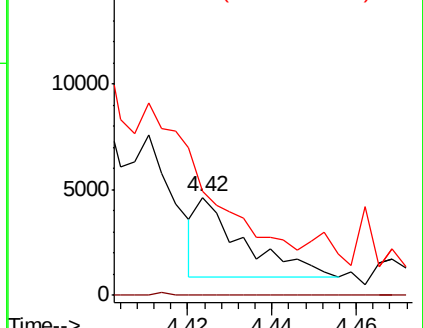


Abundance

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: 0.748 ppbv

RT: 5.07 min Scan# 710

Delta R.T. -0.02 min

Lab File: VL036085.D

Acq: 8 Dec 2020 4:25

Tgt Ion: 43 Resp: 143969

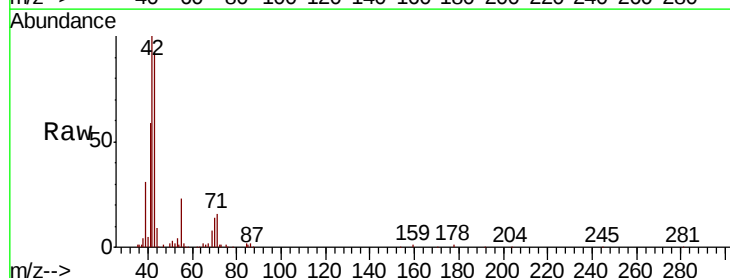
Ion Ratio Lower Upper

43 100

86 2.3 5.0 7.4#

42 108.9 7.8 11.6#

44 6.4 3.2 4.8#



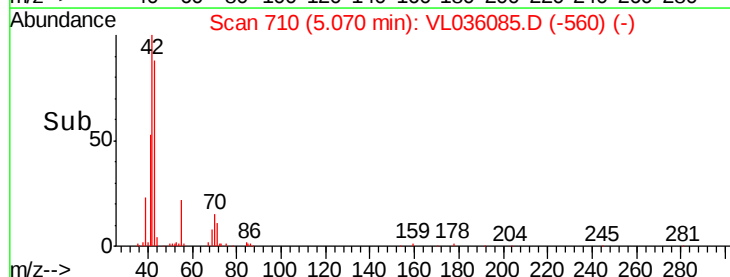
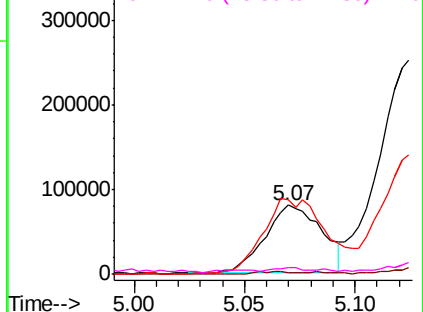
Abundance

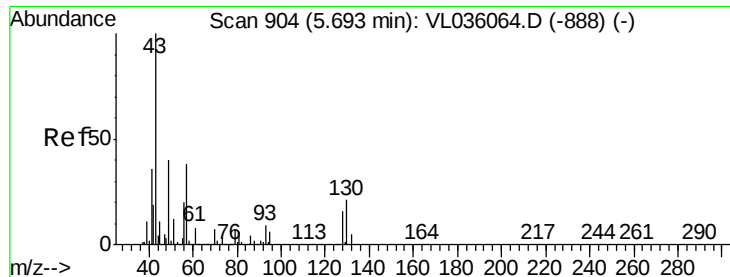
Ion 43.10 (42.80 to 43.80): VL0

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: 2.560 ppbv

RT: 5.71 min Scan# 908

Delta R.T. 0.01 min

Lab File: VL036085.D

Acq: 8 Dec 2020 4:25

Instrument :

MSVOA_L

ClientSampled :

IA-5B

Tot Ion: 43 Resp: 739257

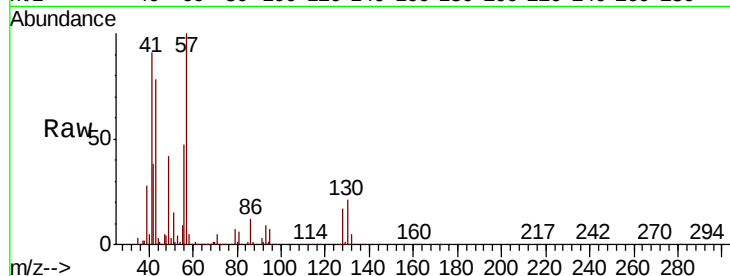
Ion Ratio Lower Upper

43 100

45 2.2 8.2 12.4#

61 1.7 7.4 11.2#

70 2.2 5.4 8.0#

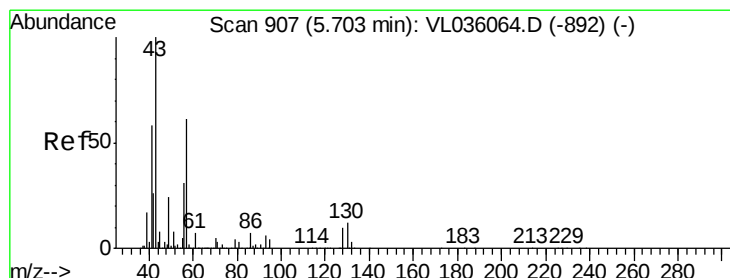
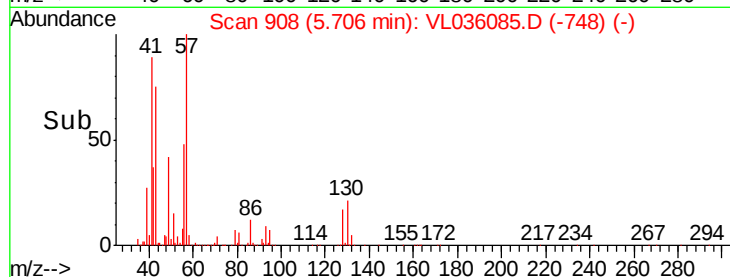
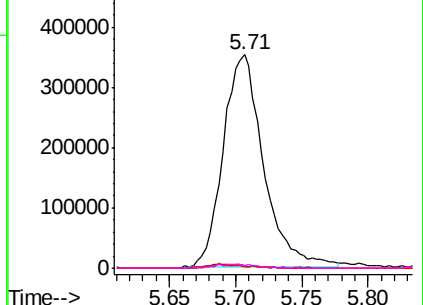


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 7.149 ppbv

RT: 5.71 min Scan# 908

Delta R.T. 0.00 min

Lab File: VL036085.D

Acq: 8 Dec 2020 4:25

Tgt Ion: 57 Resp: 929221

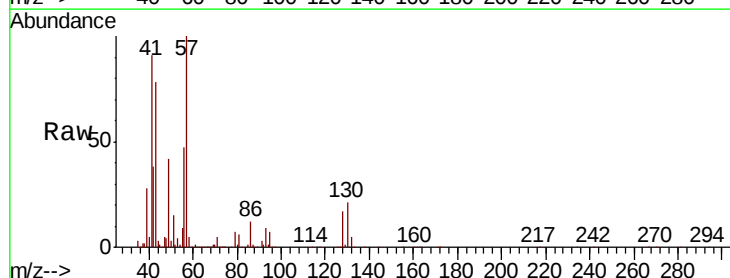
Ion Ratio Lower Upper

57 100

41 98.5 82.9 124.3

43 83.0 199.9 299.9#

56 54.0 43.1 64.7

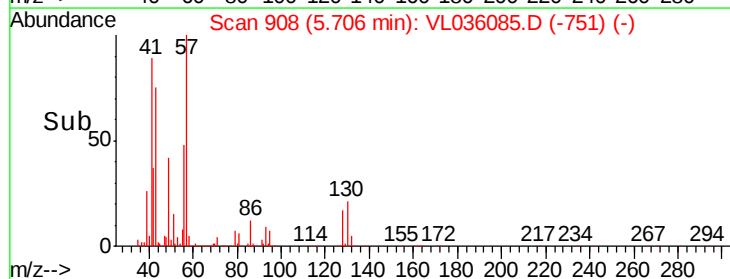
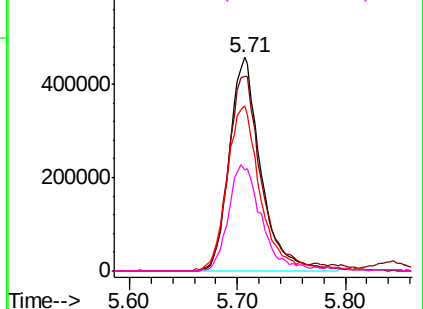


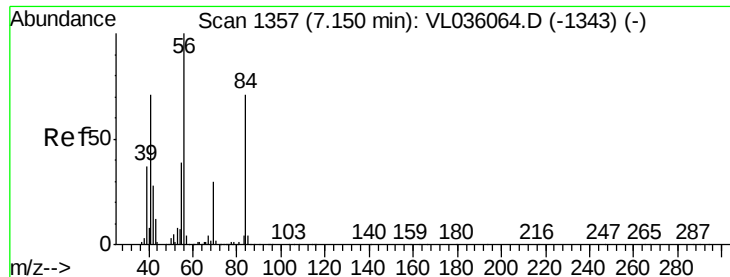
Abundance Ion 57.10 (56.80 to 57.80): VL0

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

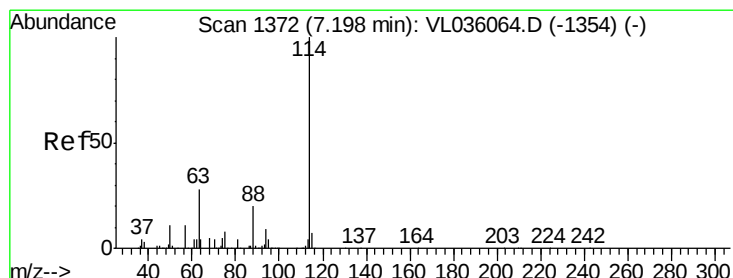
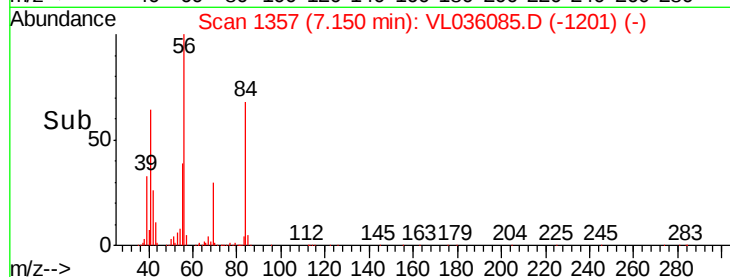
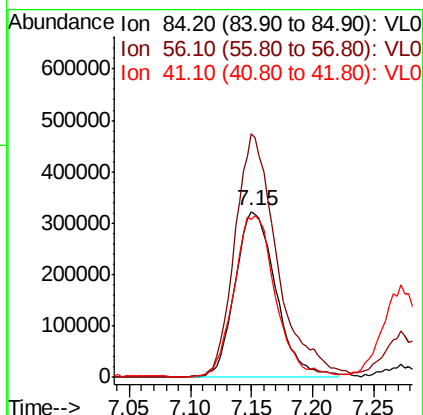
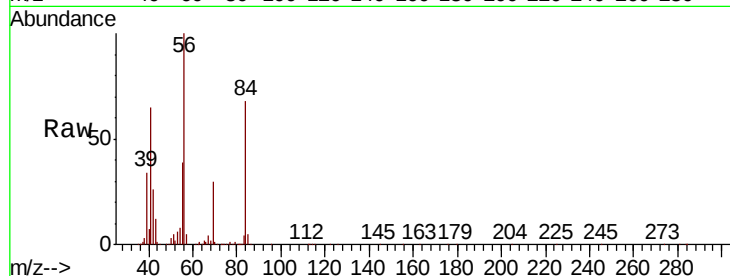




#30
Cyclohexane
Concen: 7.847 ppbv
RT: 7.15 min Scan# 1357
Delta R.T. 0.00 min
Lab File: VL036085.D
Acq: 8 Dec 2020 4:25

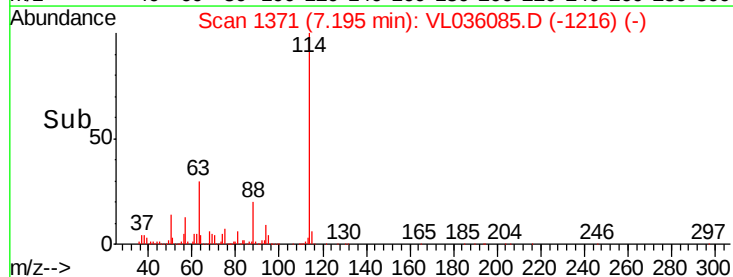
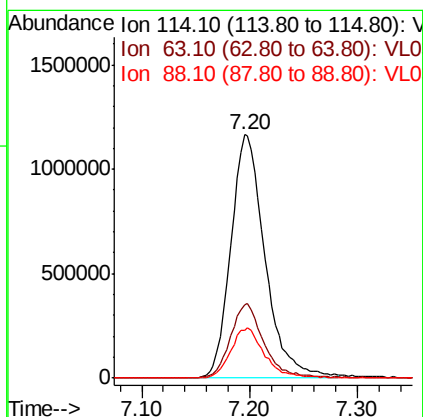
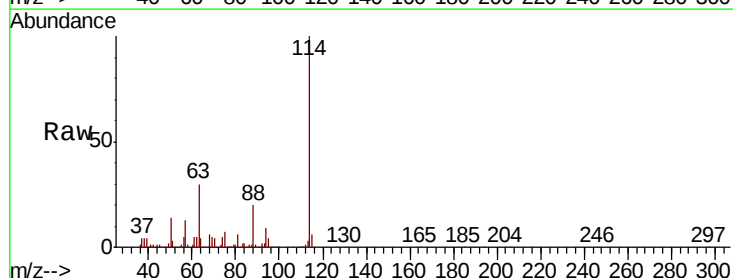
Instrument :
MSVOA_L
ClientSampleId :
IA-5B

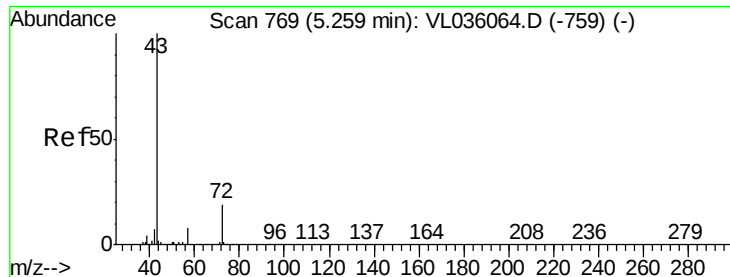
Tot Ion	Ratio	Lower	Upper
84	100		
56	152.5	128.0	192.0
41	97.2	81.3	121.9



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.20 min Scan# 1371
Delta R.T. -0.00 min
Lab File: VL036085.D
Acq: 8 Dec 2020 4:25

Tgt Ion	Ratio	Lower	Upper
114	100		
63	30.5	23.6	35.4
88	20.6	15.8	23.6

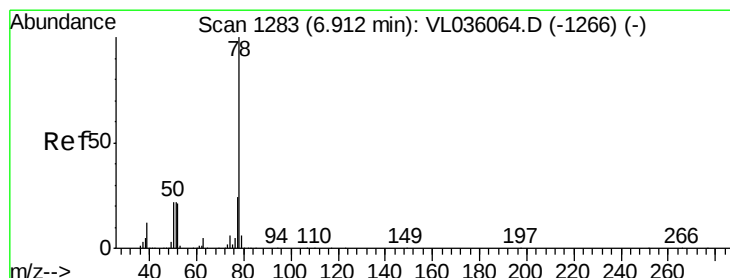
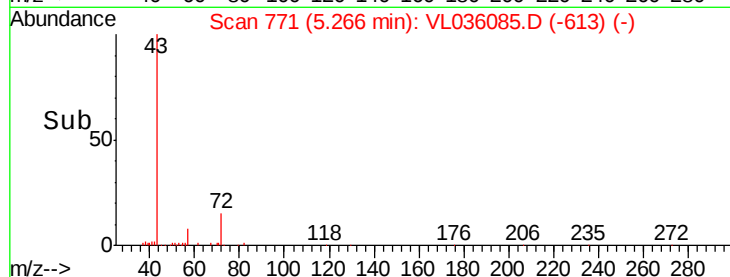
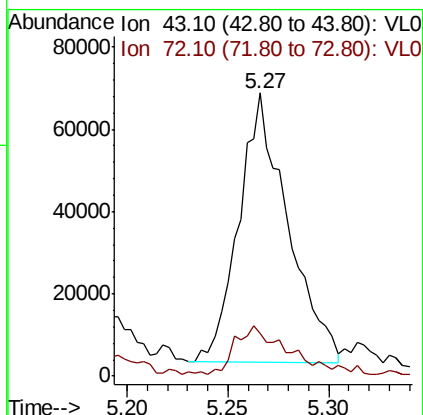
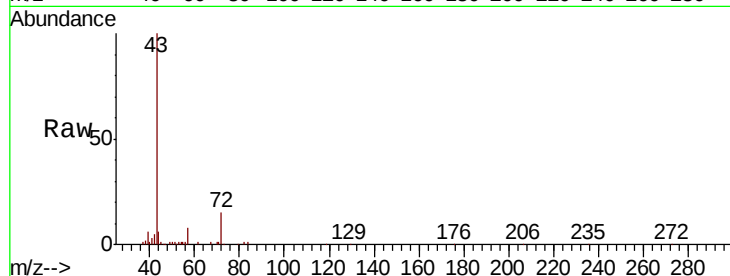




#34
2-Butanone
Concen: 0.650 ppbv
RT: 5.27 min Scan# 771
Delta R.T. 0.01 min
Lab File: VL036085.D
Acq: 8 Dec 2020 4:25

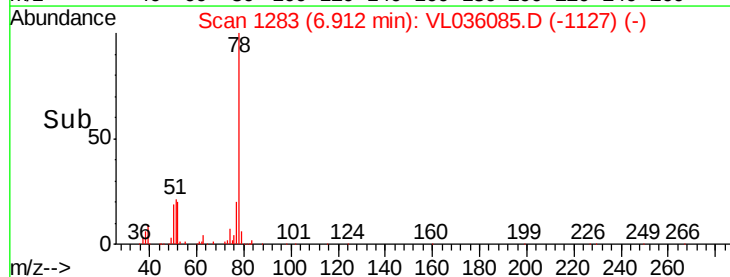
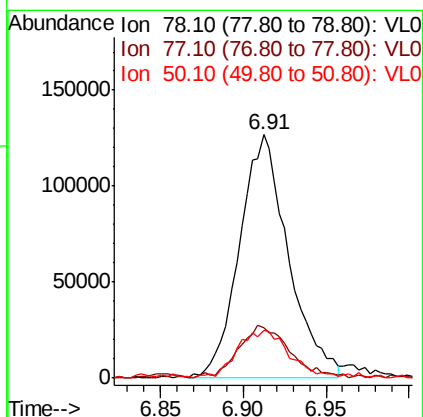
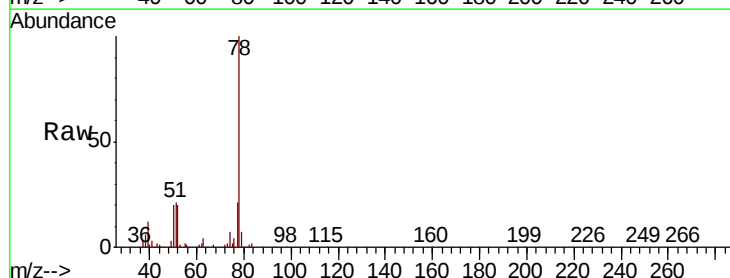
Instrument :
MSVOA_L
ClientSampled :
IA-5B

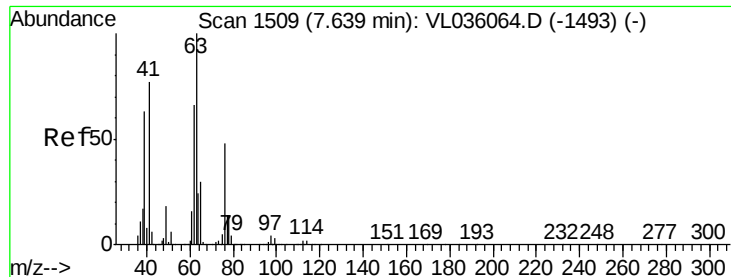
Tot Ion: 43 Resp: 111107
Ion Ratio Lower Upper
43 100
72 23.1 16.5 24.7



#36
Benzene
Concen: 1.186 ppbv
RT: 6.91 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VL036085.D
Acq: 8 Dec 2020 4:25

Tgt Ion: 78 Resp: 258896
Ion Ratio Lower Upper
78 100
77 20.4 19.4 29.2
50 19.0 17.8 26.8





#39

1,2-Dichloropropane

Concen: 0.124 ppbv

RT: 7.24 min Scan# 1386

Delta R.T. -0.40 min

Lab File: VL036085.D

Acq: 8 Dec 2020 4:25

Instrument :

MSVOA_L

ClientSampleId :

IA-5B

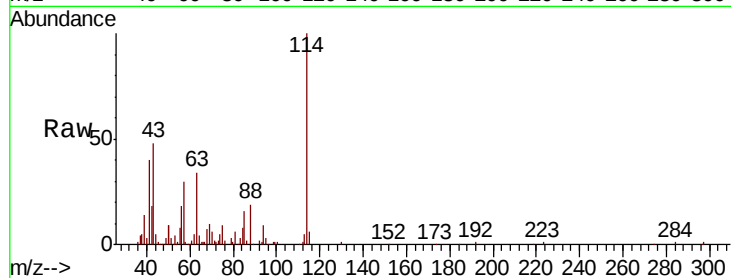
Tot Ion: 63 Resp: 10676

Ion Ratio Lower Upper

63 100

41 68.6 61.9 92.9

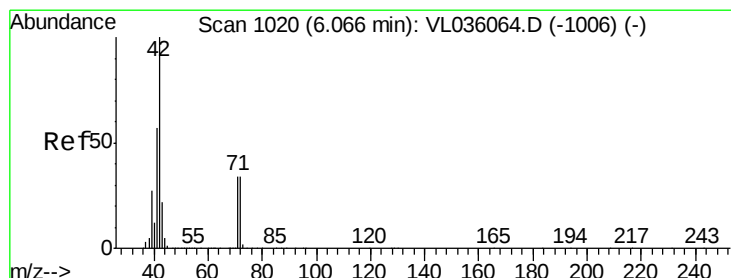
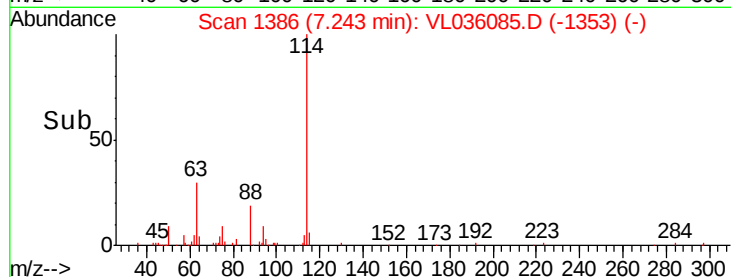
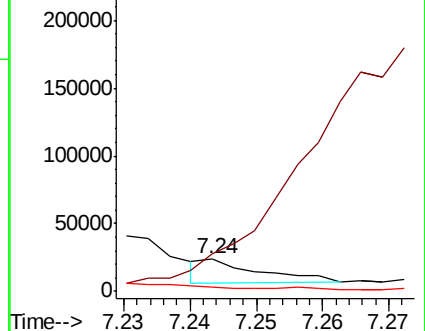
62 15.0 52.5 78.7#



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



#41

Tetrahydrofuran

Concen: 0.051 ppbv

RT: 6.09 min Scan# 1027

Delta R.T. 0.02 min

Lab File: VL036085.D

Acq: 8 Dec 2020 4:25

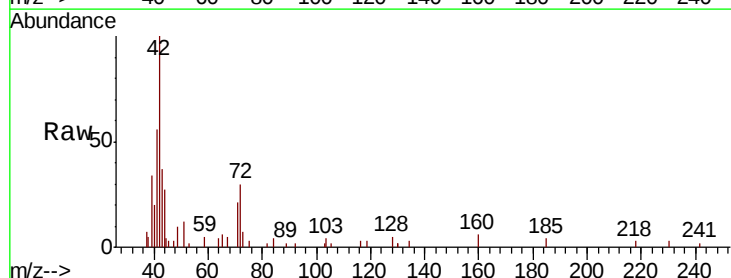
Tgt Ion: 42 Resp: 5164

Ion Ratio Lower Upper

42 100

72 100.3 28.3 42.5#

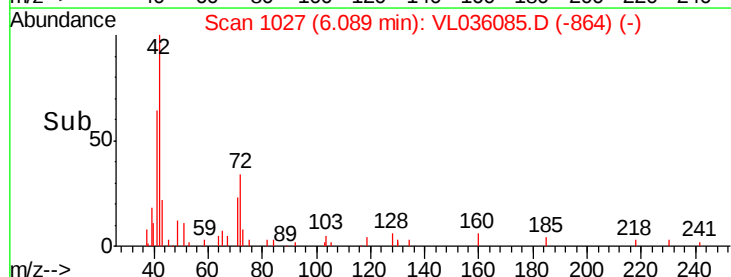
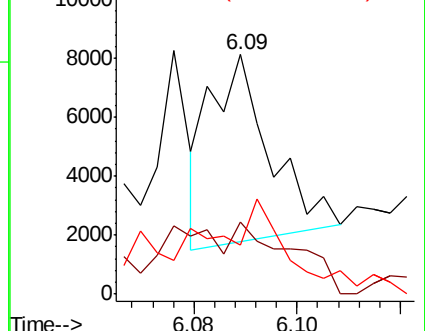
71 99.7 27.3 40.9#

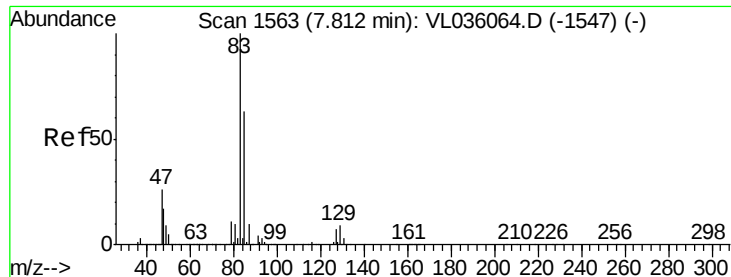


Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0





#42

Bromodichloromethane

Concen: 0.102 ppbv

RT: 7.81 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VL036085.D

Acq: 8 Dec 2020 4:25

Instrument :

MSVOA_L

ClientSampled :

IA-5B

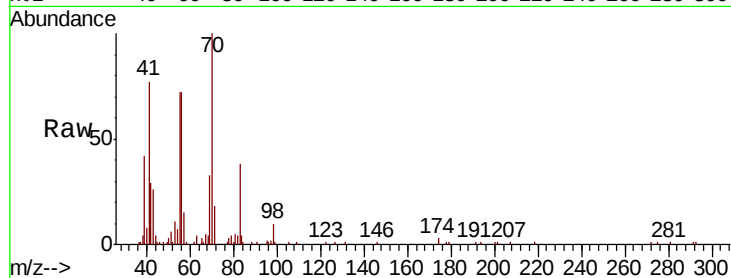
Tot Ion: 83 Resp: 17121

Ion Ratio Lower Upper

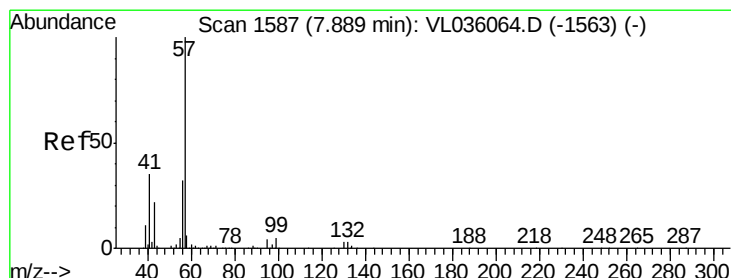
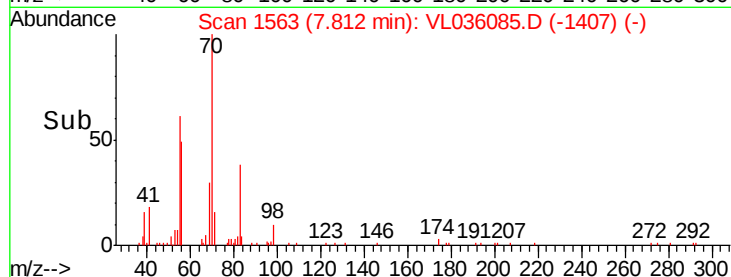
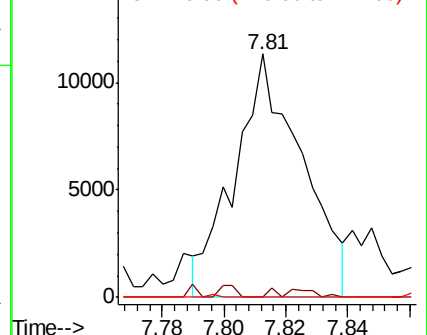
83 100

85 0.0 50.2 75.2#

127 0.0 5.5 8.3#



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 126.90 (126.60 to 127.60): VL0



#44

2,2,4-Trimethylpentane

Concen: 1.635 ppbv

RT: 7.89 min Scan# 1588

Delta R.T. 0.00 min

Lab File: VL036085.D

Acq: 8 Dec 2020 4:25

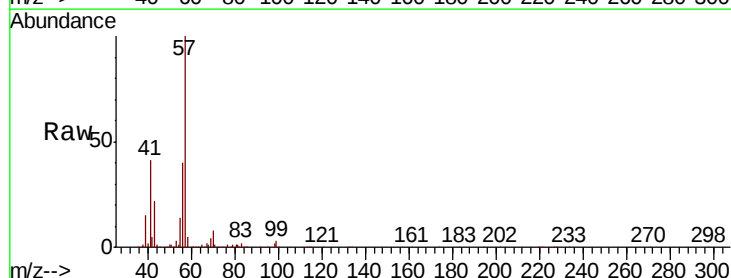
Tgt Ion: 57 Resp: 646615

Ion Ratio Lower Upper

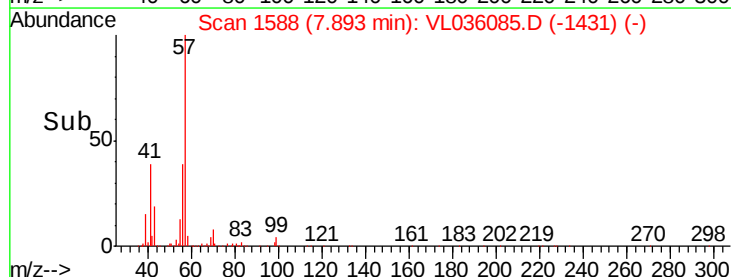
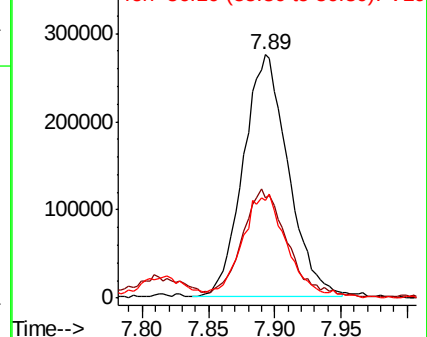
57 100

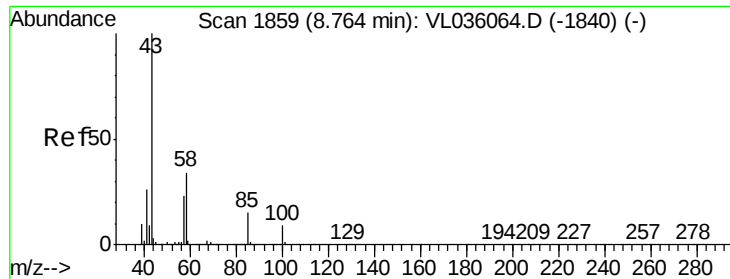
41 45.1 28.9 43.3#

56 43.8 25.3 37.9#



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

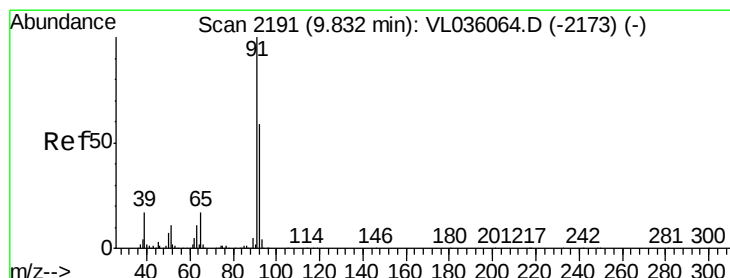
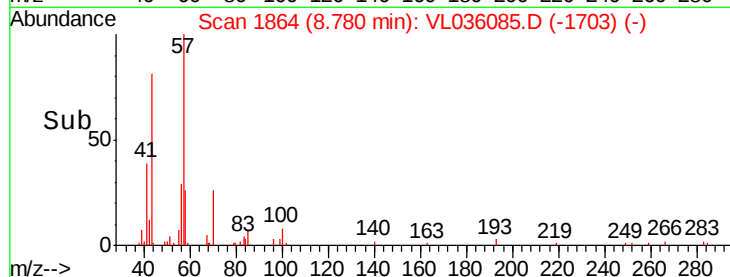
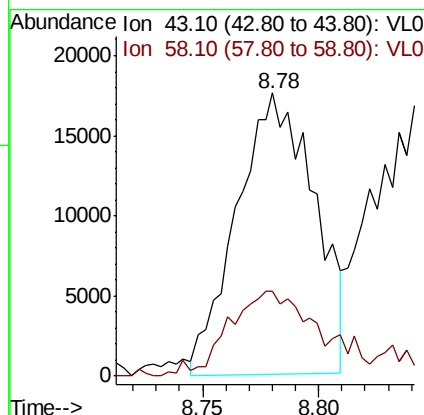
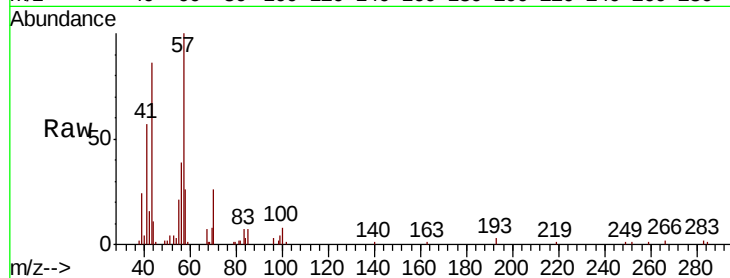




#50
 4-Methyl-2-Pentanone
 Concen: 0.160 ppbv
 RT: 8.78 min Scan# 1864
 Delta R.T. 0.02 min
 Lab File: VL036085.D
 Acq: 8 Dec 2020 4:25

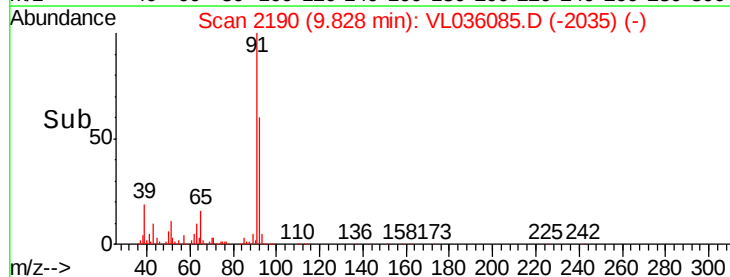
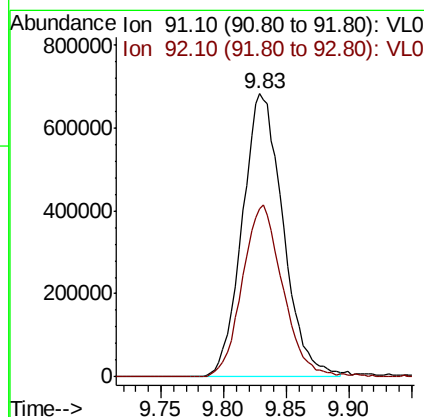
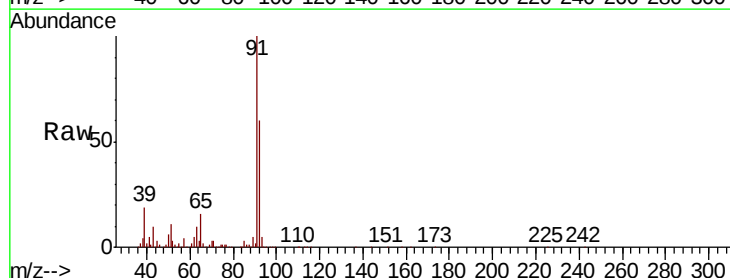
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-5B

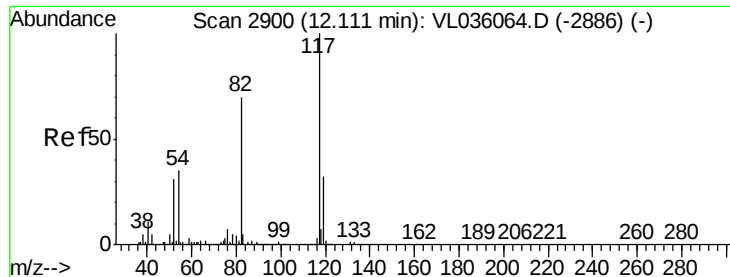
Tot Ion: 43 Resp: 40805
 Ion Ratio Lower Upper
 43 100
 58 42.4 27.4 41.2#



#53
 Toluene
 Concen: 6.287 ppbv
 RT: 9.83 min Scan# 2190
 Delta R.T. -0.00 min
 Lab File: VL036085.D
 Acq: 8 Dec 2020 4:25

Tgt Ion: 91 Resp: 1541397
 Ion Ratio Lower Upper
 91 100
 92 61.0 48.2 72.2

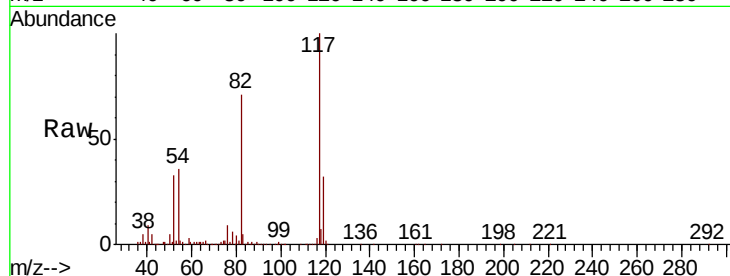




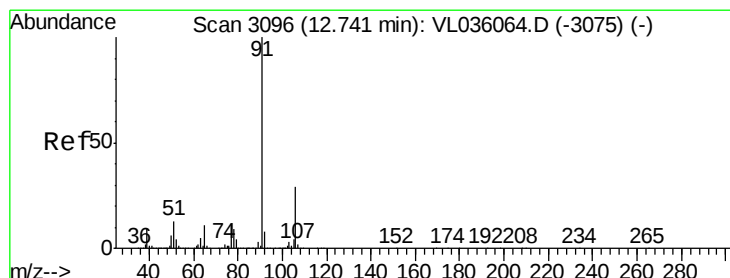
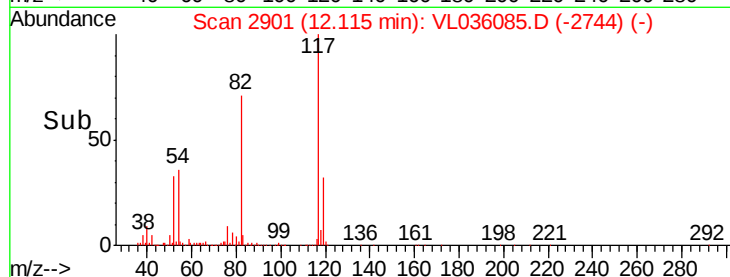
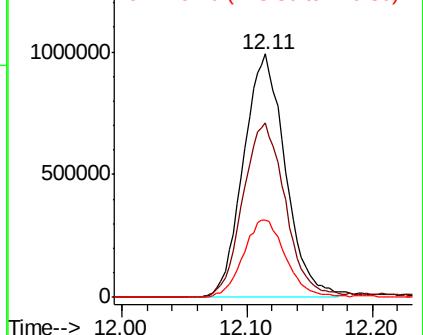
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2901
Delta R.T. 0.00 min
Lab File: VL036085.D
Acq: 8 Dec 2020 4:25

Instrument :
MSVOA_L
ClientSampled :
IA-5B

Tot Ion:117 Resp: 2299488
Ion Ratio Lower Upper
117 100
82 75.8 0.0 0.0#
119 32.7 0.0 0.0#

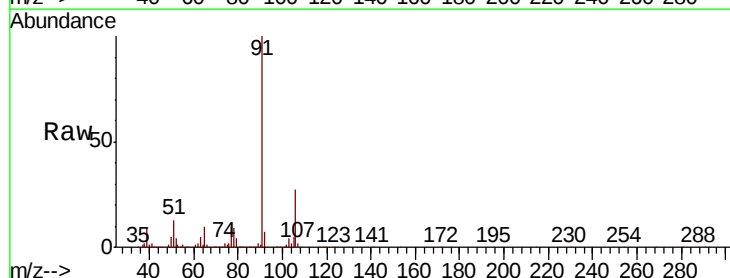


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

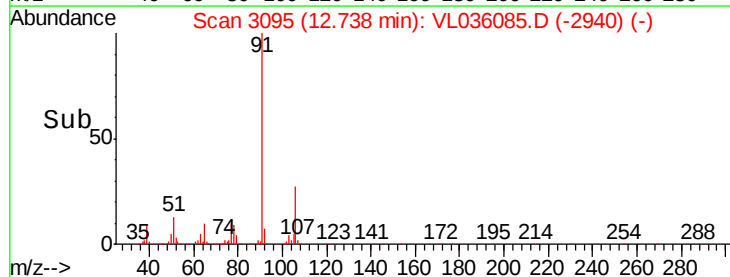
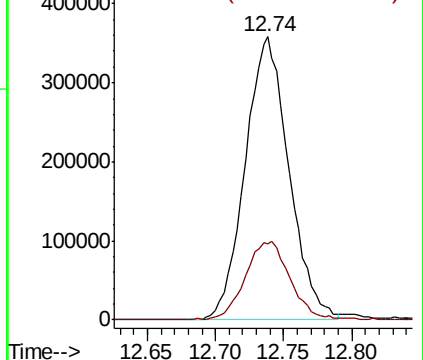


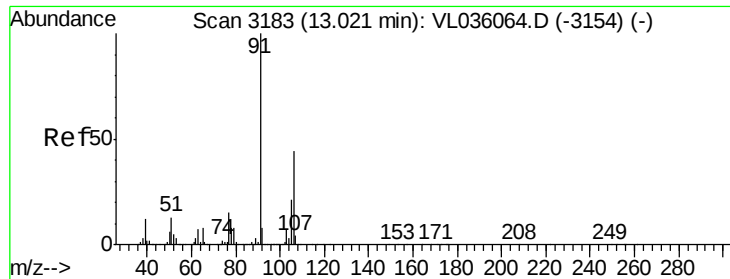
#58
Ethyl Benzene
Concen: 2.529 ppbv
RT: 12.74 min Scan# 3095
Delta R.T. -0.00 min
Lab File: VL036085.D
Acq: 8 Dec 2020 4:25

Tgt Ion: 91 Resp: 797005
Ion Ratio Lower Upper
91 100
106 26.7 23.0 34.4



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

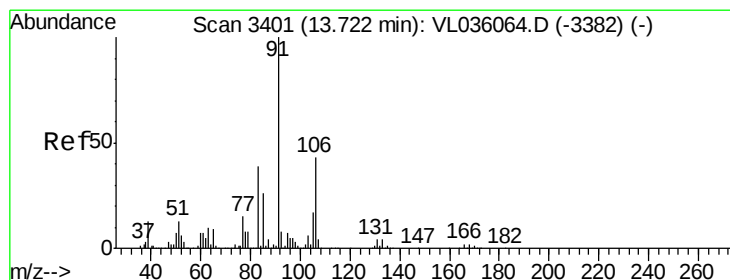
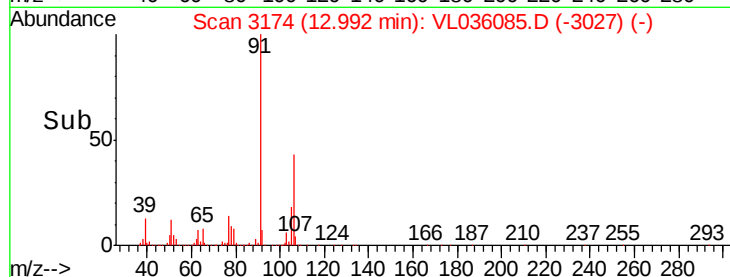
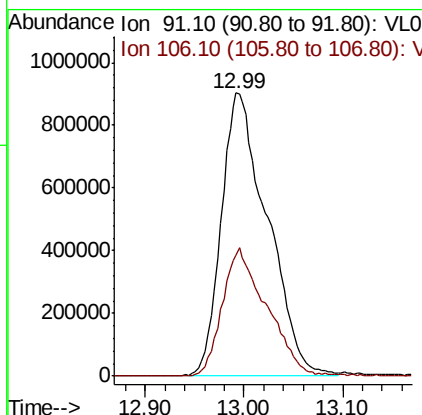
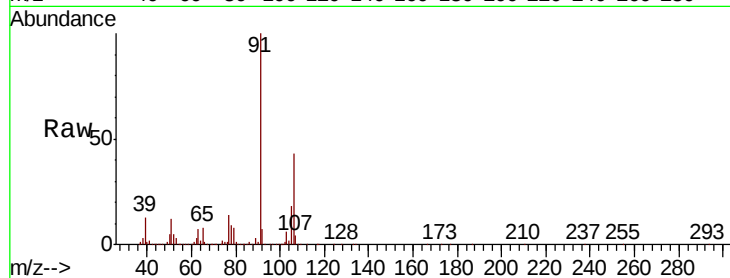




#59
m/p-Xylene
Concen: 10.983 ppbv
RT: 12.99 min Scan# 3174
Delta R.T. -0.03 min
Lab File: VL036085.D
Acq: 8 Dec 2020 4:25

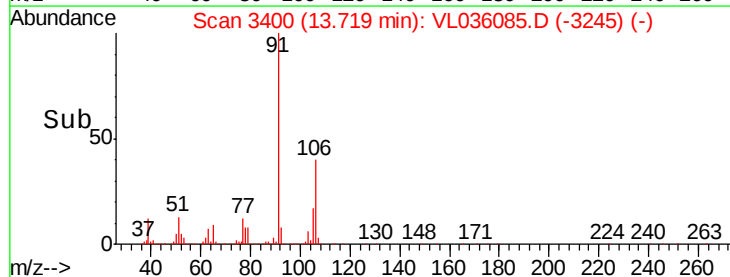
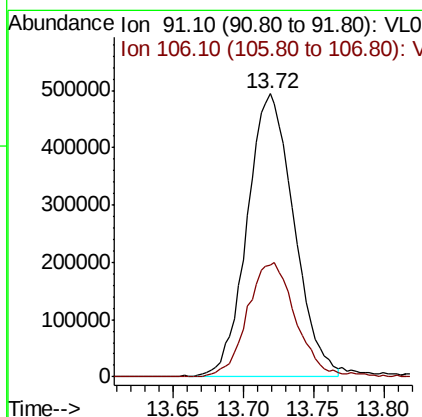
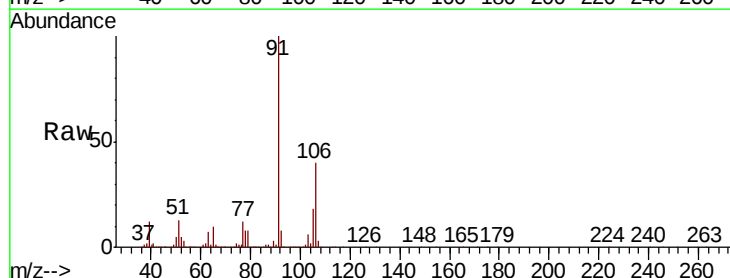
Instrument :
MSVOA_L
ClientSampleId :
IA-5B

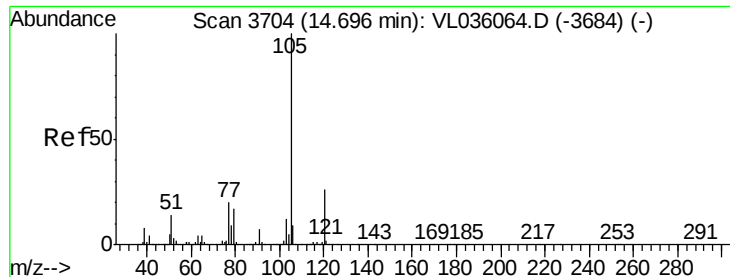
Tot Ion: 91 Resp: 2915155
Ion Ratio Lower Upper
91 100
106 44.0 33.6 50.4



#60
o-Xylene
Concen: 4.546 ppbv
RT: 13.72 min Scan# 3400
Delta R.T. -0.00 min
Lab File: VL036085.D
Acq: 8 Dec 2020 4:25

Tgt Ion: 91 Resp: 1136944
Ion Ratio Lower Upper
91 100
106 42.2 21.6 64.6





#62

Isopropylbenzene

Concen: 0.035 ppbv

RT: 14.70 min Scan# 3705

Delta R.T. 0.00 min

Lab File: VL036085.D

Acq: 8 Dec 2020 4:25

Instrument :

MSVOA_L

ClientSampleId :

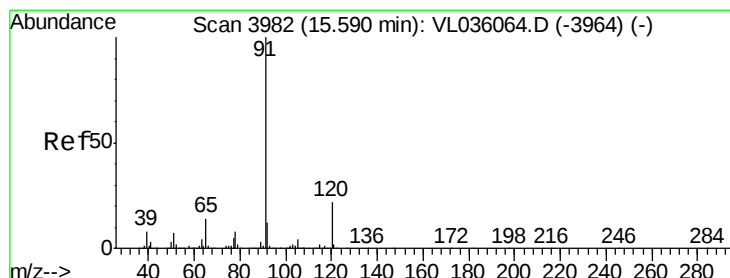
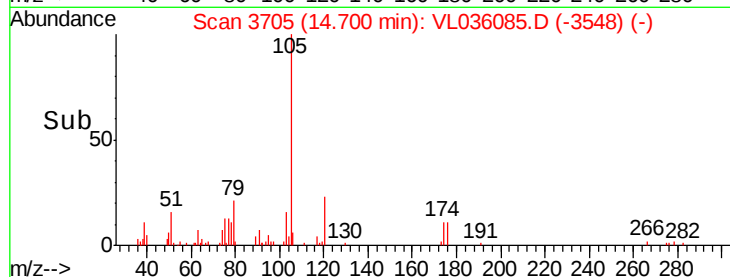
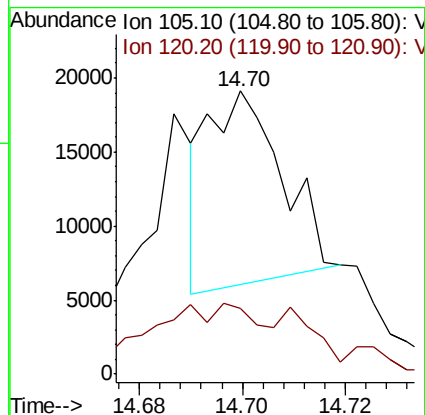
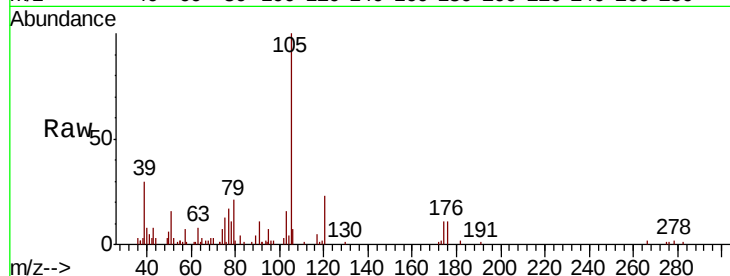
IA-5B

Tot Ion:105 Resp: 12942

Ion Ratio Lower Upper

105 100

120 85.5 20.1 30.1#



#64

n-propylbenzene

Concen: 0.104 ppbv

RT: 15.59 min Scan# 3983

Delta R.T. 0.00 min

Lab File: VL036085.D

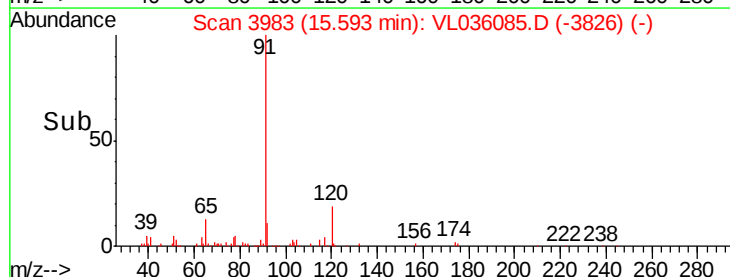
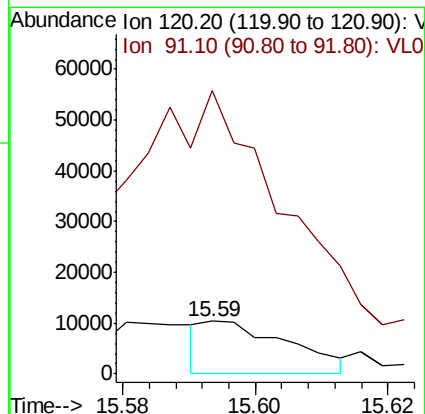
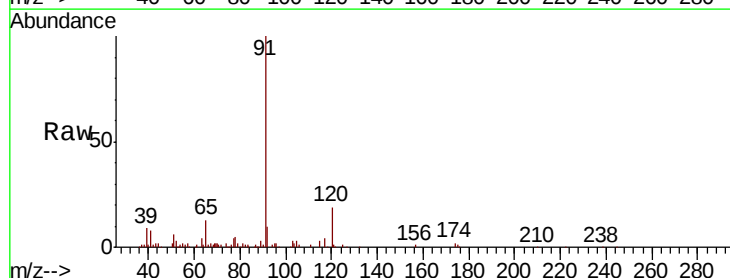
Acq: 8 Dec 2020 4:25

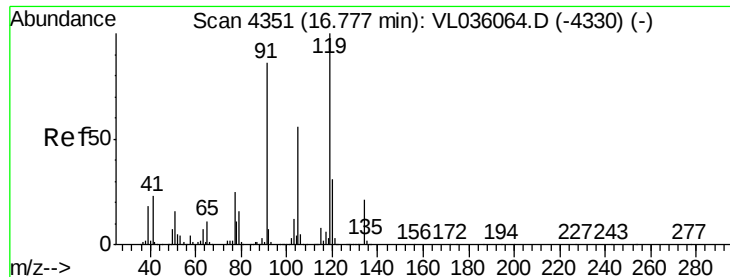
Tgt Ion:120 Resp: 9291

Ion Ratio Lower Upper

120 100

91 1284.5 388.9 583.3#





#65

tert-Butylbenzene

Concen: 0.143 ppbv

RT: 16.79 min Scan# 4355

Delta R.T. 0.01 min

Lab File: VL036085.D

Acq: 8 Dec 2020 4:25

Instrument :

MSVOA_L

ClientSampleId :

IA-5B

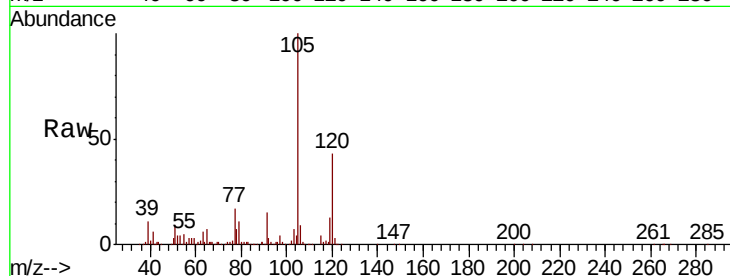
Tot Ion:119 Resp: 43442

Ion Ratio Lower Upper

119 100

91 141.7 70.2 105.2#

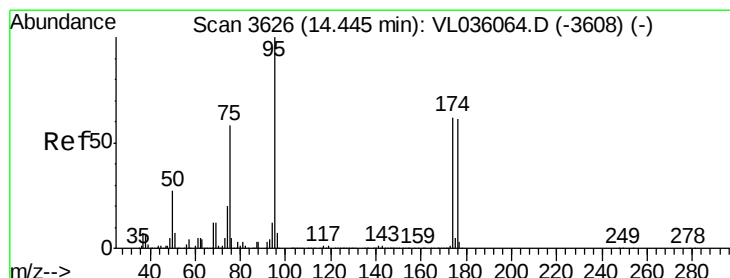
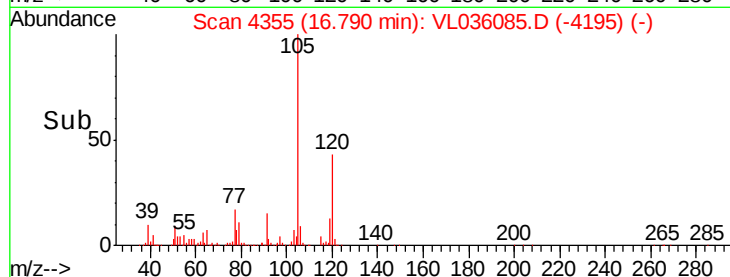
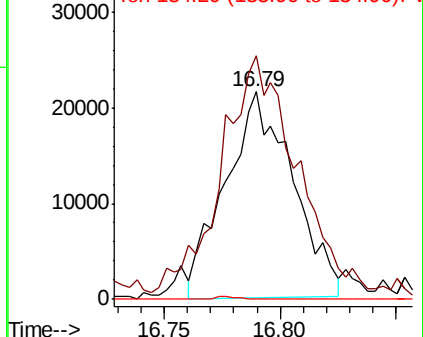
134 0.0 15.8 23.6#



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



#68

1-Bromo-4-Fluorobenzene

Concen: 10.531 ppbv

RT: 14.45 min Scan# 3626

Delta R.T. 0.00 min

Lab File: VL036085.D

Acq: 8 Dec 2020 4:25

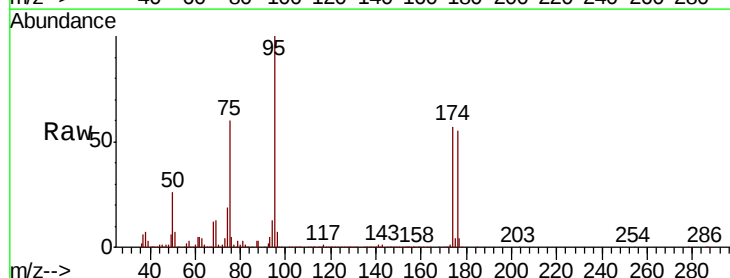
Tgt Ion: 95 Resp: 1922808

Ion Ratio Lower Upper

95 100

174 58.2 50.7 76.1

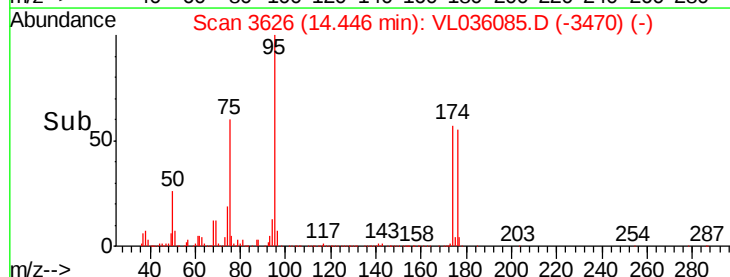
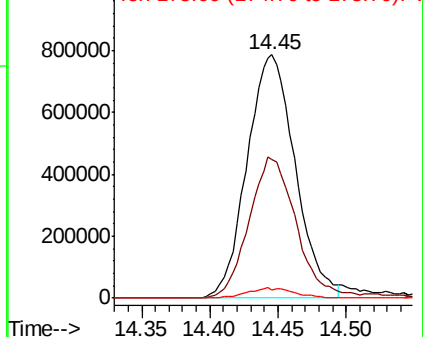
175 4.3 4.0 6.0

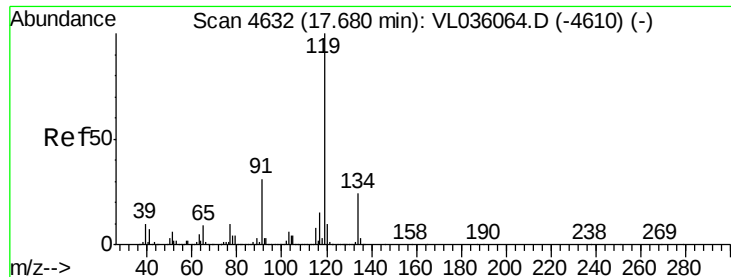


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#69

p-Isopropyltoluene

Concen: 0.053 ppbv

RT: 17.68 min Scan# 4632

Delta R.T. 0.00 min

Lab File: VL036085.D

Acq: 8 Dec 2020 4:25

Instrument :

MSVOA_L

ClientSampleId :

IA-5B

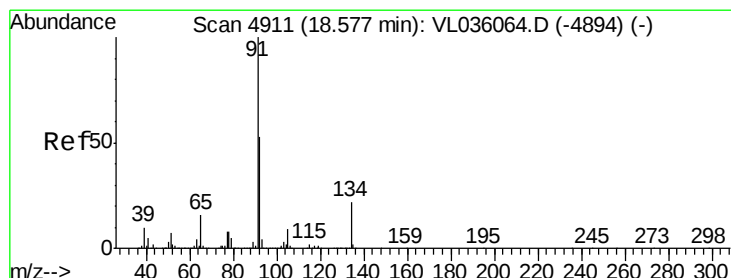
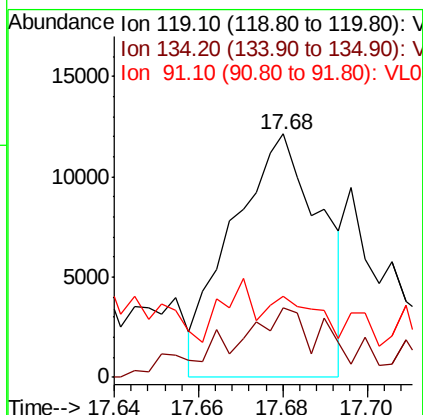
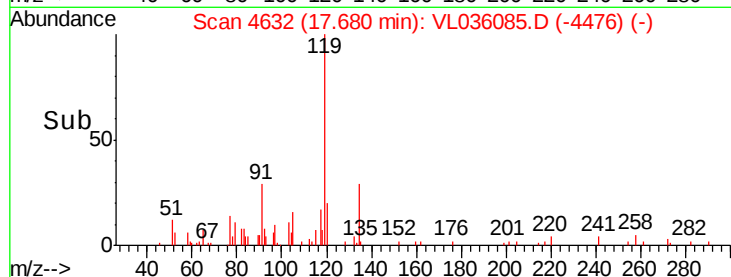
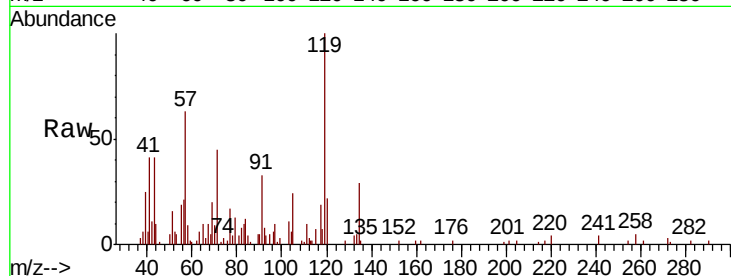
Tot Ion:119 Resp: 17783

Ion Ratio Lower Upper

119 100

134 41.0 19.8 29.6#

91 67.9 25.8 38.6#



#70

n-Butylbenzene

Concen: 0.045 ppbv

RT: 18.58 min Scan# 4912

Delta R.T. 0.00 min

Lab File: VL036085.D

Acq: 8 Dec 2020 4:25

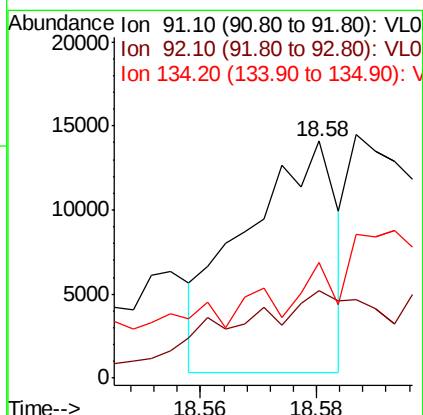
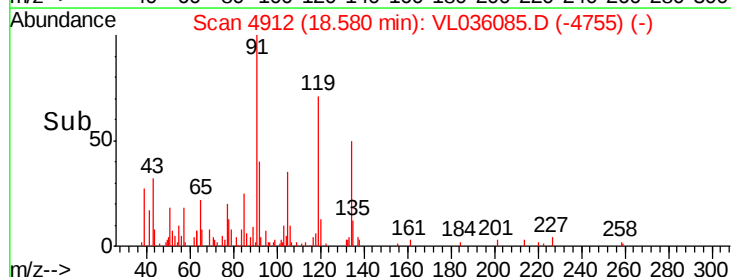
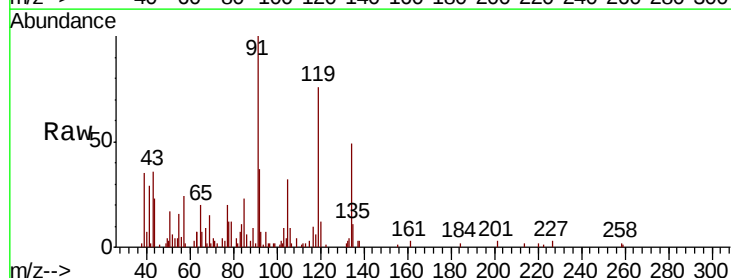
Tgt Ion: 91 Resp: 15155

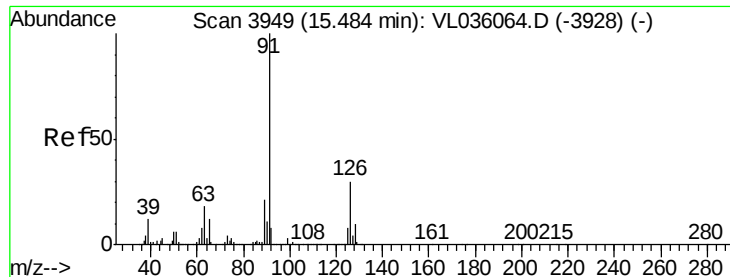
Ion Ratio Lower Upper

91 100

92 108.8 43.3 64.9#

134 0.0 17.1 25.7#

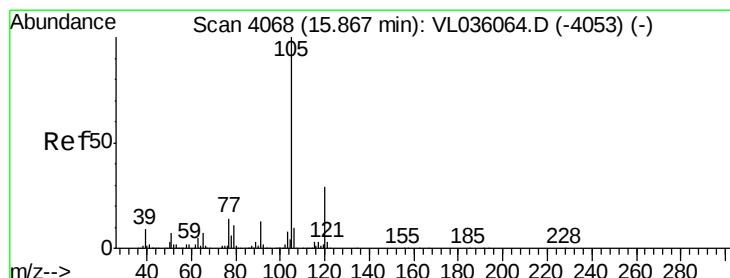
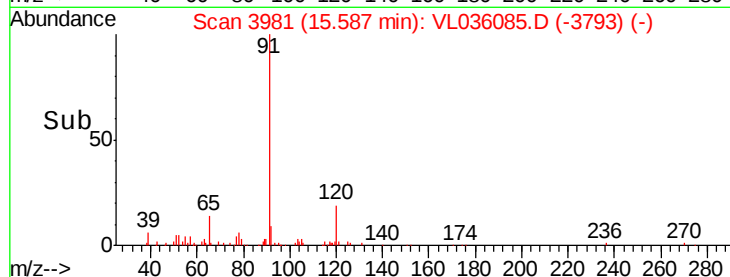
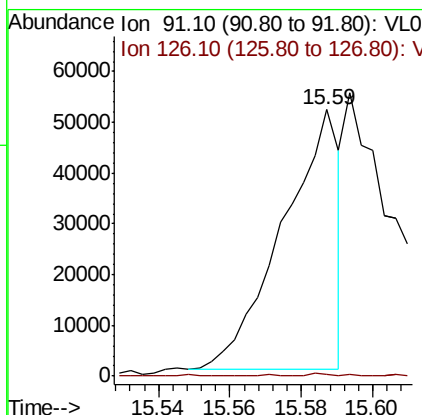
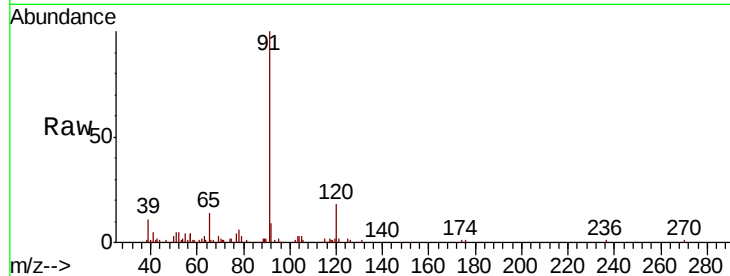




#71
 2-Chlorotoluene
 Concen: 0.200 ppbv
 RT: 15.59 min Scan# 3981
 Delta R.T. 0.10 min
 Lab File: VL036085.D
 Acq: 8 Dec 2020 4:25

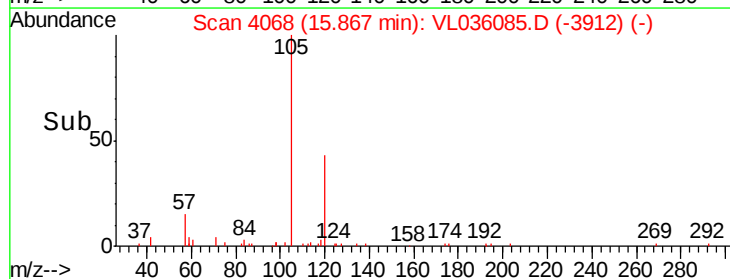
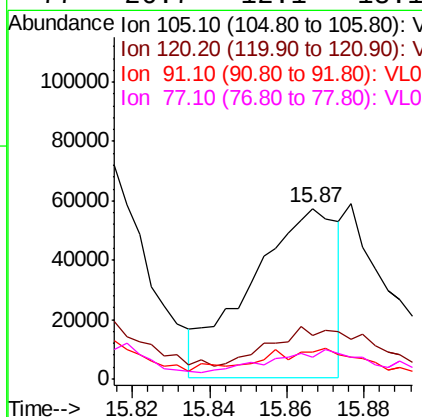
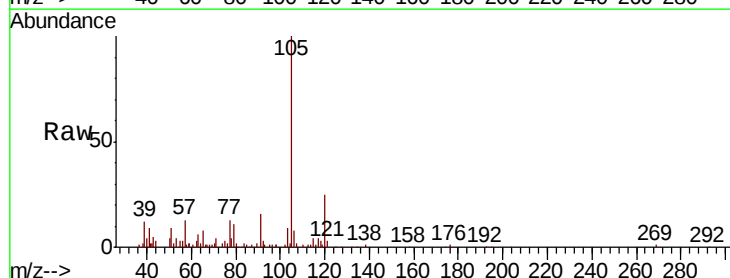
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-5B

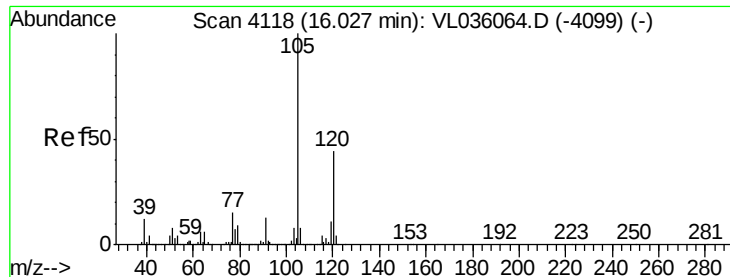
Tot Ion: 91 Resp: 56037
 Ion Ratio Lower Upper
 91 100
 126 0.6 11.6 46.4#



#72
 4-Ethyltoluene
 Concen: 0.328 ppbv
 RT: 15.87 min Scan# 4068
 Delta R.T. 0.00 min
 Lab File: VL036085.D
 Acq: 8 Dec 2020 4:25

Tgt Ion: 105 Resp: 88935
 Ion Ratio Lower Upper
 105 100
 120 47.4 23.6 35.4#
 91 26.6 11.4 17.0#
 77 26.7 12.1 18.1#





#73

1,3,5-Trimethylbenzene

Concen: 0.446 ppbv

RT: 16.03 min Scan# 4119

Delta R.T. 0.00 min

Lab File: VL036085.D

Acq: 8 Dec 2020 4:25

Instrument :

MSVOA_L

ClientSampled :

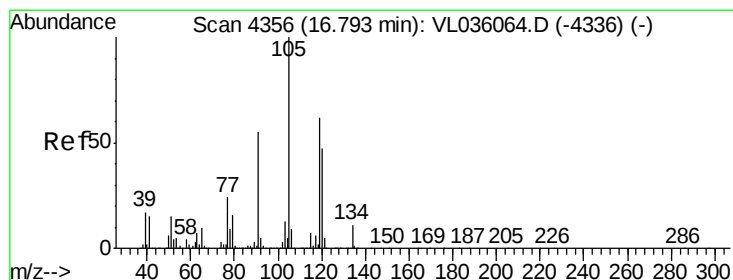
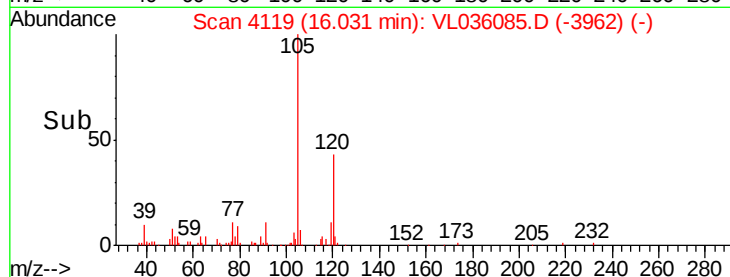
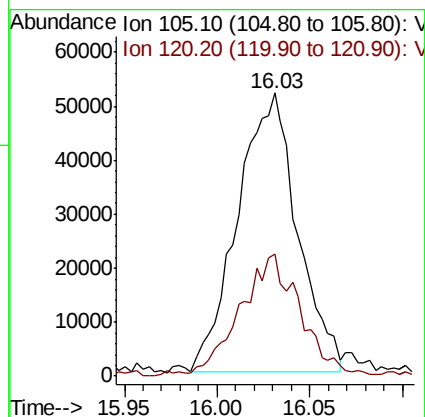
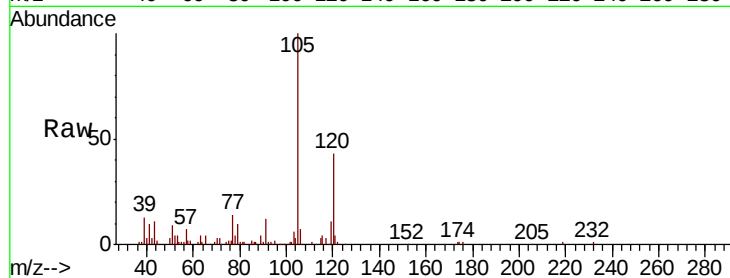
IA-5B

Tot Ion:105 Resp: 115343

Ion Ratio Lower Upper

105 100

120 42.5 35.4 53.2



#74

1,2,4-Trimethylbenzene

Concen: 1.647 ppbv

RT: 16.79 min Scan# 4356

Delta R.T. 0.00 min

Lab File: VL036085.D

Acq: 8 Dec 2020 4:25

Tgt Ion:105 Resp: 427831

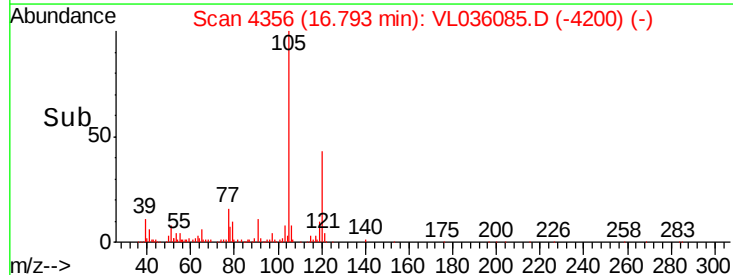
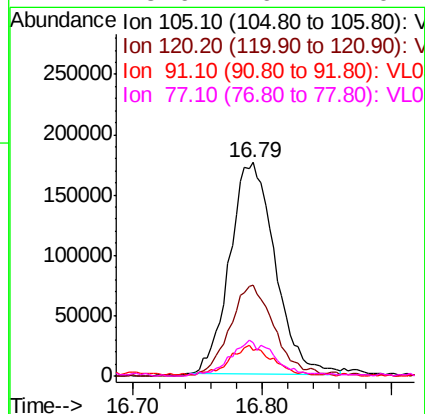
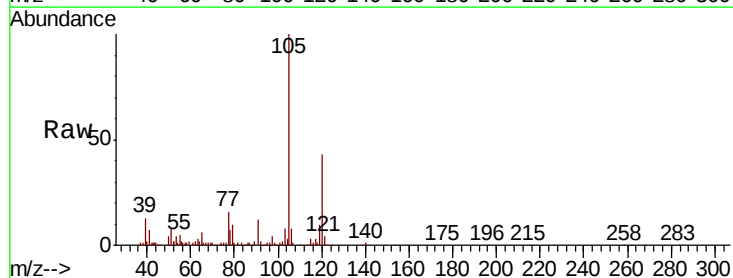
Ion Ratio Lower Upper

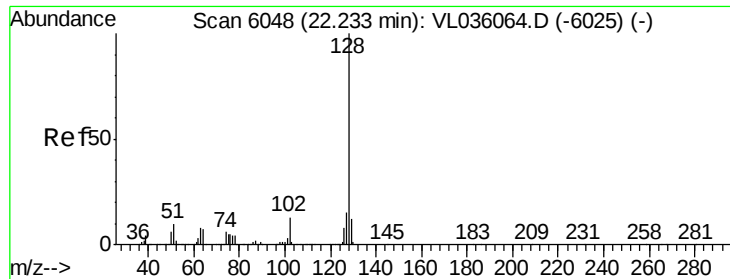
105 100

120 42.4 37.4 56.0

91 11.7 45.6 68.4#

77 15.6 19.4 29.2#





#79

Naphthalene

Concen: 0.317 ppbv

RT: 22.24 min Scan# 6050

Delta R.T. 0.01 min

Lab File: VL036085.D

Acq: 8 Dec 2020 4:25

Instrument :

MSVOA_L

ClientSampled :

IA-5B

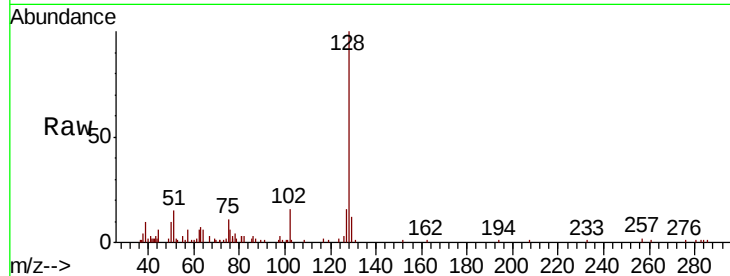
Tot Ion:128 Resp: 41858

Ion Ratio Lower Upper

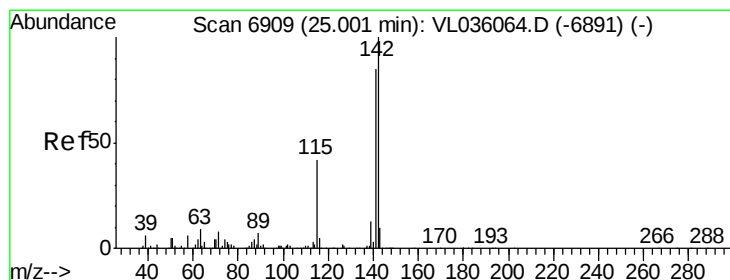
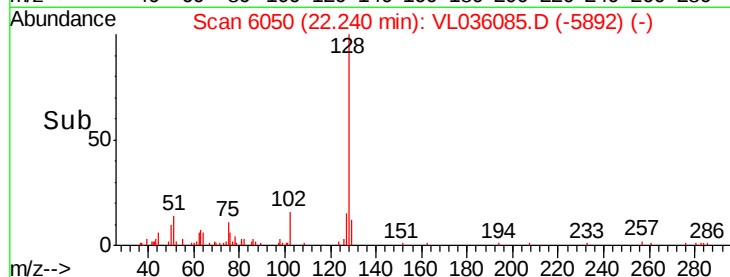
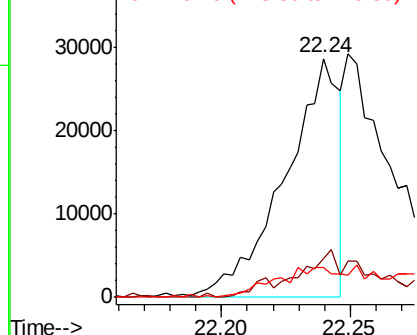
128 100

127 16.3 11.7 17.5

129 11.2 9.3 13.9



Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 0.200 ppbv

RT: 25.02 min Scan# 6916

Delta R.T. 0.02 min

Lab File: VL036085.D

Acq: 8 Dec 2020 4:25

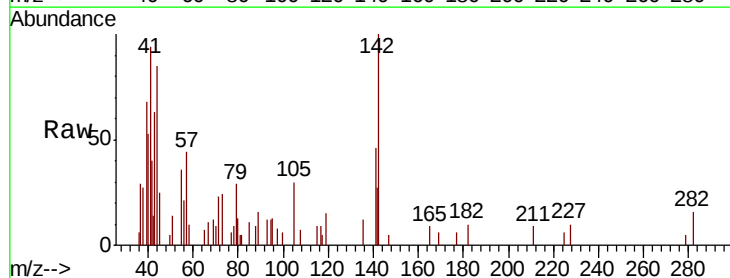
Tgt Ion:142 Resp: 5916

Ion Ratio Lower Upper

142 100

141 120.1 64.3 96.5#

115 45.3 33.9 50.9



Abundance Ion 142.00 (141.70 to 142.70): V
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V

