

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090320\
 Data File : VL035537.D
 Acq On : 3 Sep 2020 19:14
 Operator : SY/AP
 Sample : L3898-03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-3

Quant Time: Sep 04 06:47:09 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Aug 27 06:46:28 2020
 QLast Update : Thu Aug 27 06:46:28 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.71	49	1040355	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.21	114	4414299	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.12	117	4401286	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	3237810	10.36	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.60%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.06	85	63909	0.354	ppbv 96
3) Chlorodifluoromethane	2.97	51	174865	1.520	ppbv # 72
4) Chloromethane	3.15	50	32320	0.524	ppbv # 87
9) Propene	3.03	41	429590	9.685	ppbv # 63
10) Heptane	8.15	43	39912	0.335	ppbv 99
11) Trichlorofluoromethane	3.96	101	389766	1.482	ppbv 95
12) 1,1,2-Trichlorotrifluoroet	4.50	101	15444	0.078	ppbv 96
13) Ethanol	3.63	45	1943613	176.721	ppbv 98
15) Acetone	3.88	43	17813556	155.250	ppbv # 48
16) 1,3-Butadiene	3.37	39	50033	1.171	ppbv # 4
17) tert-Butyl alcohol	4.34	59	1383705	9.907	ppbv # 72
19) Isopropyl Alcohol	4.00	45	438962	6.413	ppbv # 93
20) Methylene Chloride	4.38	84	906897	10.612	ppbv 97
21) Allyl Chloride	4.38	41	17731	0.330	ppbv # 52
23) Vinyl Acetate	5.11	43	101751	0.691	ppbv # 87
25) Ethyl Acetate	5.71	43	357142	1.762	ppbv # 82
26) Hexane	5.71	57	479571	4.175	ppbv # 56
27) Carbon Disulfide	4.57	76	6015	0.036	ppbv # 82
29) Chloroform	5.79	83	22681	0.097	ppbv 99
30) Cyclohexane	7.16	84	16199	0.132	ppbv # 7
34) 2-Butanone	5.28	43	245548	1.874	ppbv 99
35) Carbon Tetrachloride	7.05	117	8949	0.040	ppbv 91
36) Benzene	6.93	78	133028	0.466	ppbv # 92
37) 1,2-Dichloroethane	6.35	62	12451	0.091	ppbv # 92
39) 1,2-Dichloropropane	7.21	63	802489	8.314	ppbv # 32
41) Tetrahydrofuran	6.09	42	6666	0.096	ppbv # 21
43) Methyl Methacrylate	8.05	69	3952	0.036	ppbv # 58
44) 2,2,4-Trimethylpentane	7.90	57	206921	0.550	ppbv # 79
50) 4-Methyl-2-Pentanone	8.79	43	24634	0.130	ppbv # 28
51) 2-Hexanone	10.19	43	7537	0.048	ppbv # 48
52) Tetrachloroethene	11.27	164	7088	0.042	ppbv 94
53) Toluene	9.84	91	2288195	6.368	ppbv 98
58) Ethyl Benzene	12.75	91	181475	0.400	ppbv 93
59) m/p-Xylene	13.01	91	619729	1.634	ppbv 96
60) o-Xylene	13.73	91	225825	0.591	ppbv 98
61) Styrene	13.57	104	16447	0.056	ppbv # 90
62) Isopropylbenzene	14.71	105	23615	0.038	ppbv 99
65) tert-Butylbenzene	16.81	119	36255	0.064	ppbv # 74
69) p-Isopropyltoluene	17.70	119	178582	0.268	ppbv 94
71) 2-Chlorotoluene	15.61	91	57026	0.128	ppbv # 39
72) 4-Ethyltoluene	15.88	105	78138	0.161	ppbv # 89

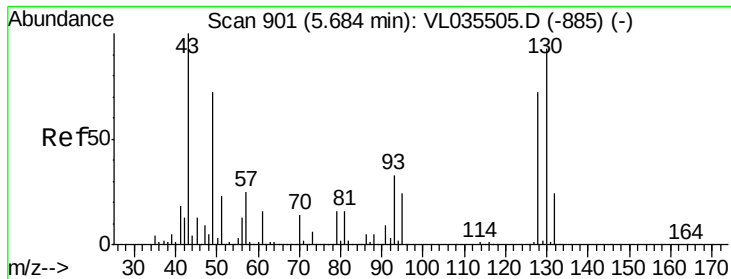
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090320\
Data File : VL035537.D
Acq On : 3 Sep 2020 19:14
Operator : SY/AP
Sample : L3898-03
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-3

Quant Time: Sep 04 06:47:09 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Aug 27 06:46:28 2020
QLast Update : Thu Aug 27 06:46:28 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
73) 1,3,5-Trimethylbenzene	16.04	105	87321	0.194	ppbv #	83
74) 1,2,4-Trimethylbenzene	16.81	105	308003	0.624	ppbv #	70
76) 1,4-Dichlorobenzene	17.18	146	44026	0.122	ppbv	94
79) Naphthalene	22.26	128	1836899	3.356	ppbv	96
80) Naphthalene,2-methyl-	25.02	142	154814	0.829	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.71 min Scan# 908

Delta R.T. 0.02 min

Lab File: VL035537.D

Acq: 3 Sep 2020 19:14

Instrument :

MSVOA_L

ClientSampleId :

IA-3

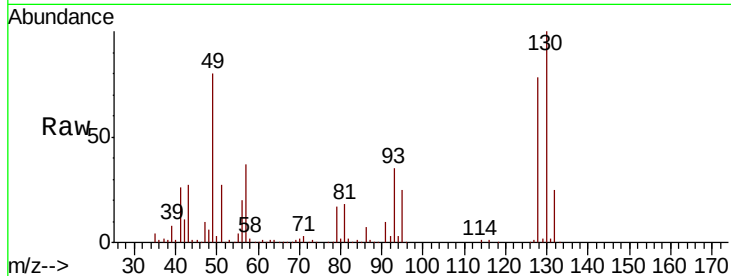
Tot Ion: 49 Resp: 1040355

Ion Ratio Lower Upper

49 100

128 95.8 50.0 150.1

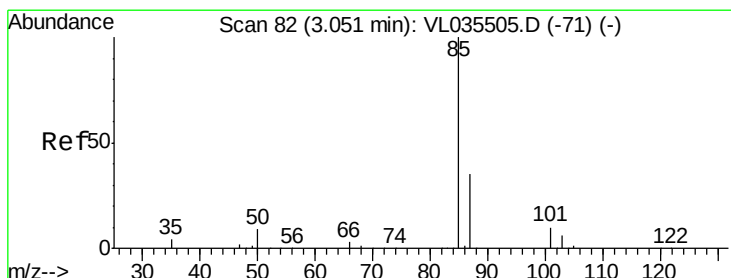
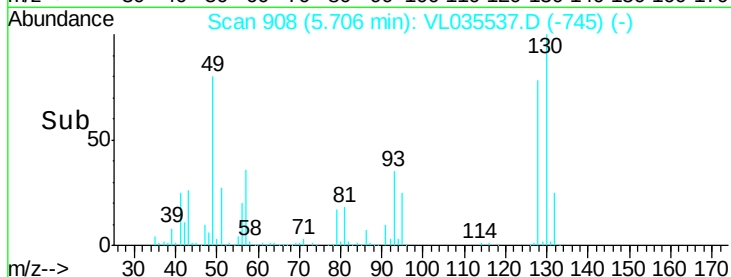
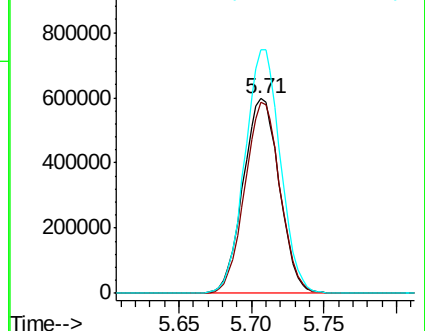
130 123.0 64.4 193.2



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: 0.354 ppbv

RT: 3.06 min Scan# 84

Delta R.T. 0.01 min

Lab File: VL035537.D

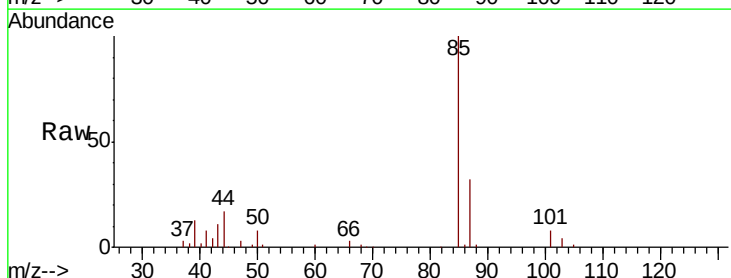
Acq: 3 Sep 2020 19:14

Tgt Ion: 85 Resp: 63909

Ion Ratio Lower Upper

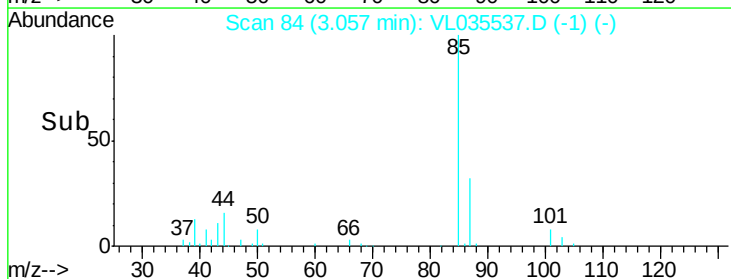
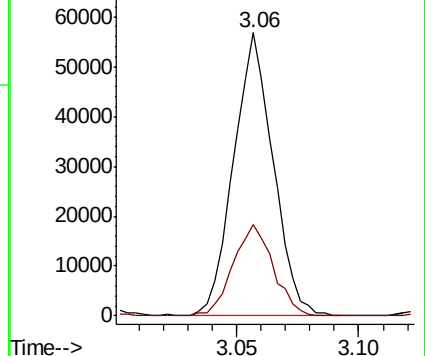
85 100

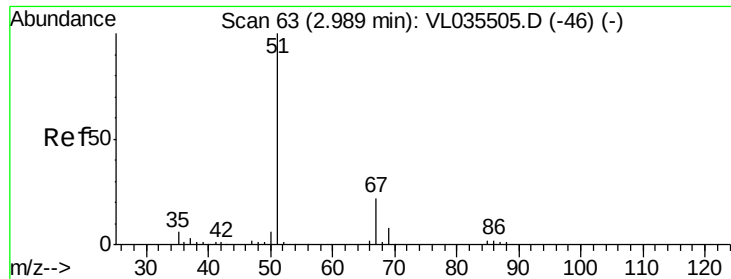
87 32.4 28.0 42.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.520 ppbv

RT: 2.97 min Scan# 57

Delta R.T. -0.02 min

Lab File: VL035537.D

Acq: 3 Sep 2020 19:14

Instrument :

MSVOA_L

ClientSampleId :

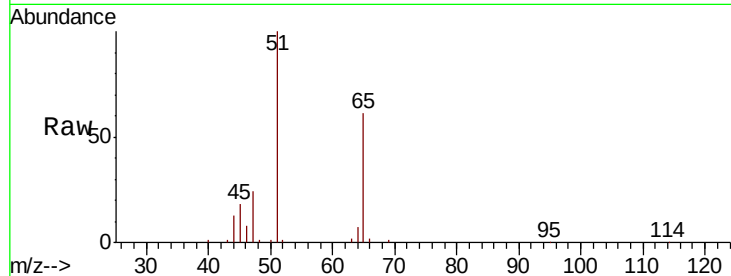
IA-3

Tot Ion: 51 Resp: 174865

Ion Ratio Lower Upper

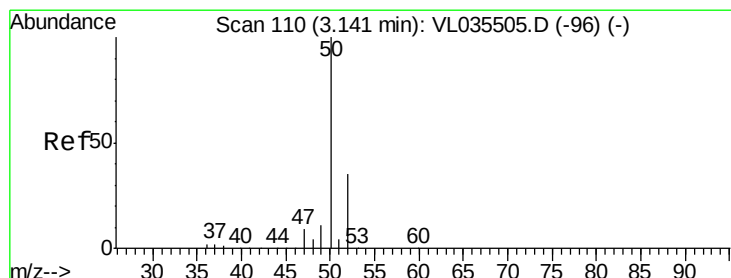
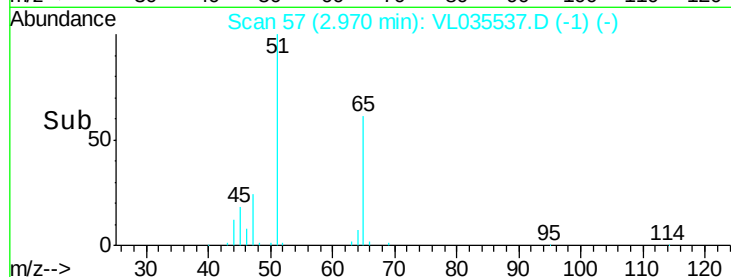
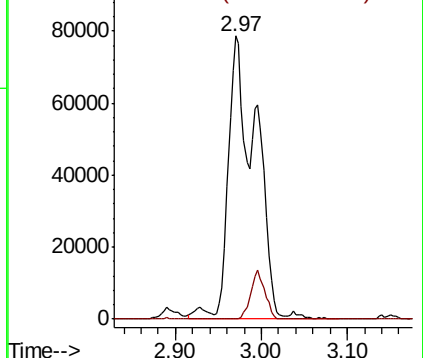
51 100

67 8.9 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: 0.524 ppbv

RT: 3.15 min Scan# 113

Delta R.T. 0.01 min

Lab File: VL035537.D

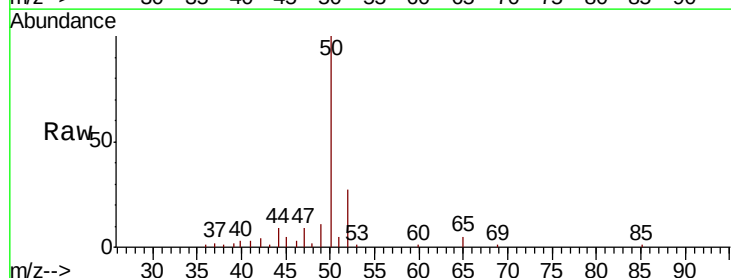
Acq: 3 Sep 2020 19:14

Tgt Ion: 50 Resp: 32320

Ion Ratio Lower Upper

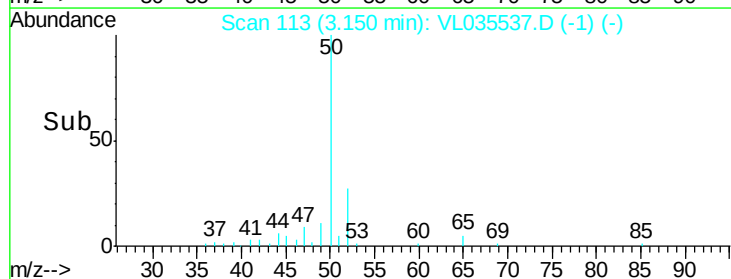
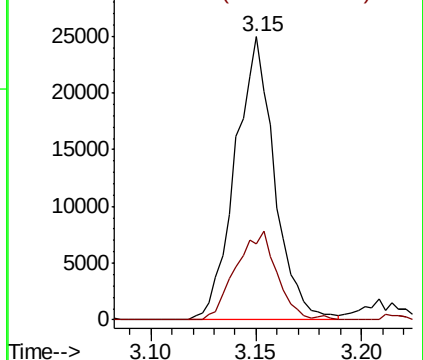
50 100

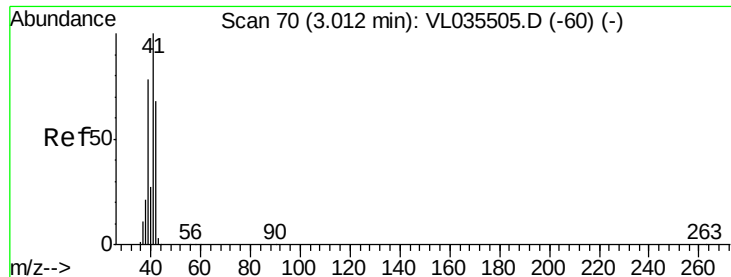
52 27.0 27.7 41.5#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 9.685 ppbv

RT: 3.03 min Scan# 76

Delta R.T. 0.02 min

Lab File: VL035537.D

Acq: 3 Sep 2020 19:14

Instrument :

MSVOA_L

ClientSampleId :

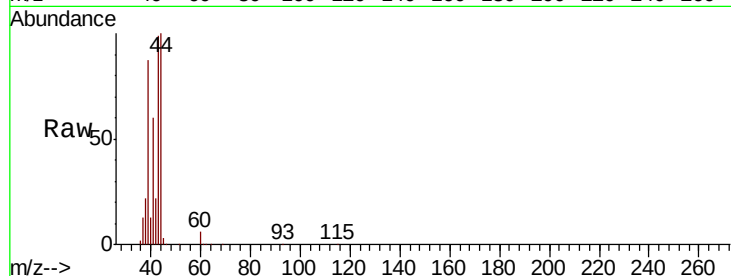
IA-3

Tot Ion: 41 Resp: 429590

Ion Ratio Lower Upper

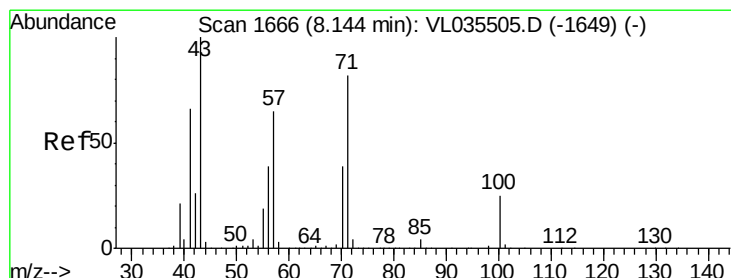
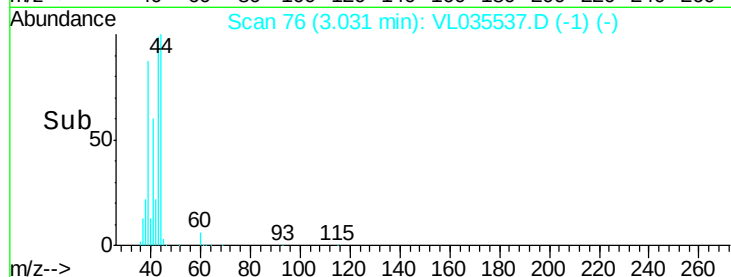
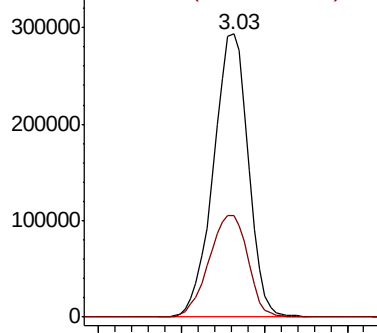
41 100

42 40.2 56.3 84.5#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.335 ppbv

RT: 8.15 min Scan# 1669

Delta R.T. 0.01 min

Lab File: VL035537.D

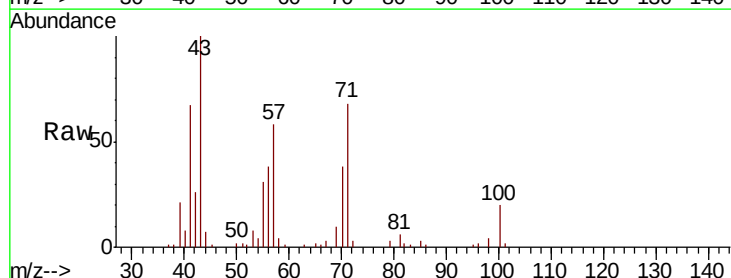
Acq: 3 Sep 2020 19:14

Tgt Ion: 43 Resp: 39912

Ion Ratio Lower Upper

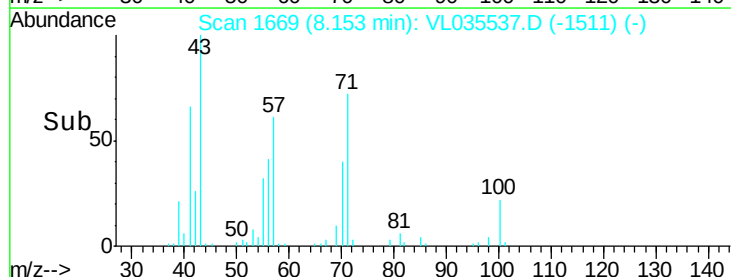
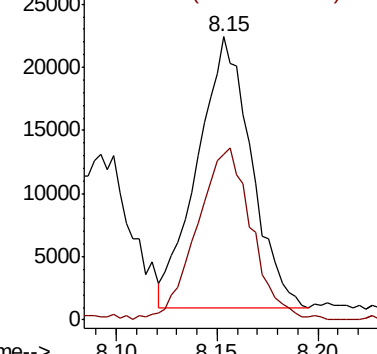
43 100

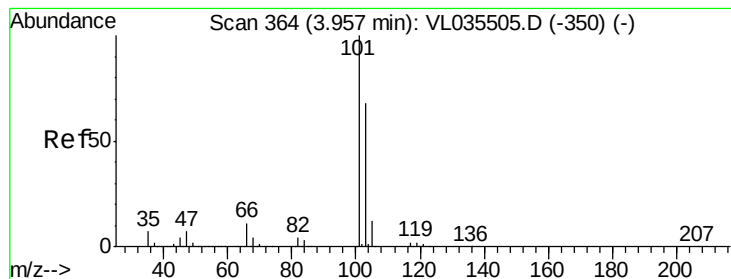
57 64.6 51.4 77.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 1.482 ppbv

RT: 3.96 min Scan# 366

Delta R.T. 0.01 min

Lab File: VL035537.D

Acq: 3 Sep 2020 19:14

Instrument :

MSVOA_L

ClientSampleId :

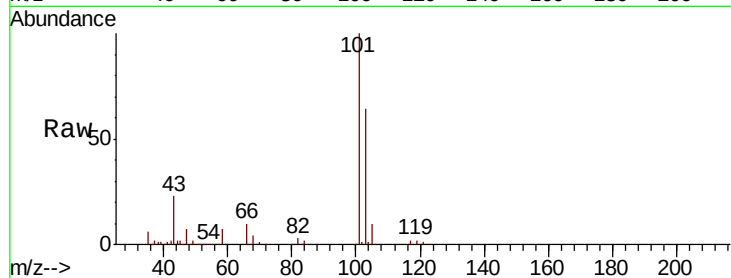
IA-3

Tot Ion:101 Resp: 389766

Ion Ratio Lower Upper

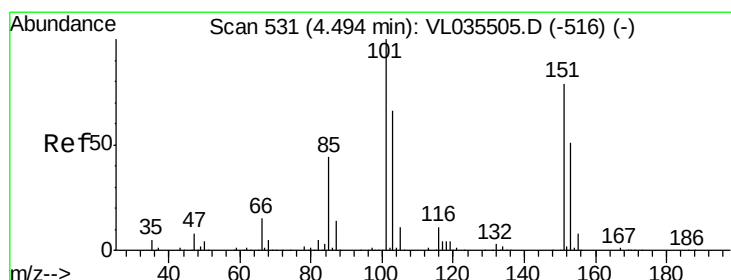
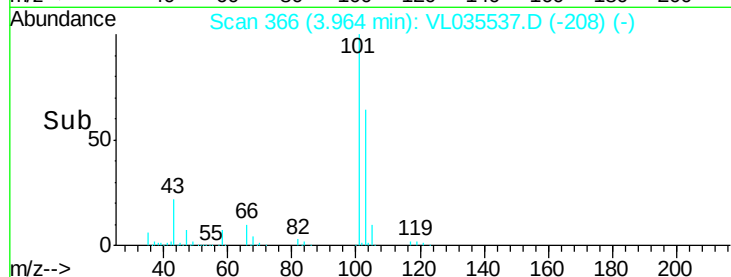
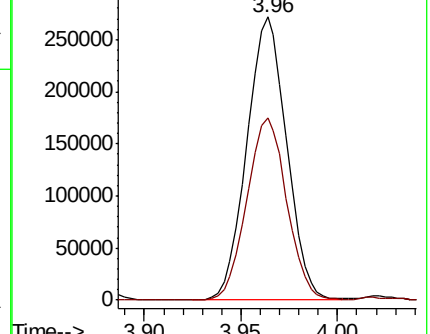
101 100

103 64.2 54.5 81.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.078 ppbv

RT: 4.50 min Scan# 534

Delta R.T. 0.01 min

Lab File: VL035537.D

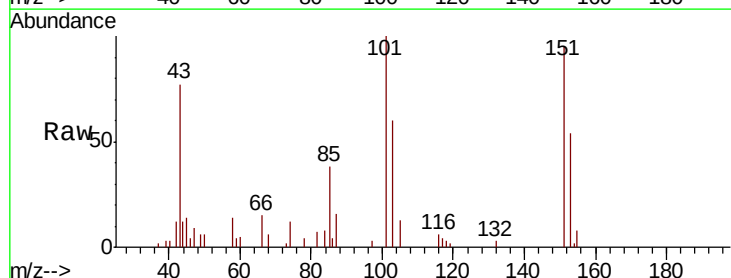
Acq: 3 Sep 2020 19:14

Tgt Ion:101 Resp: 15444

Ion Ratio Lower Upper

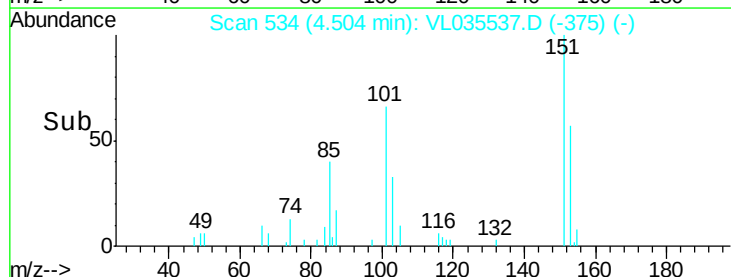
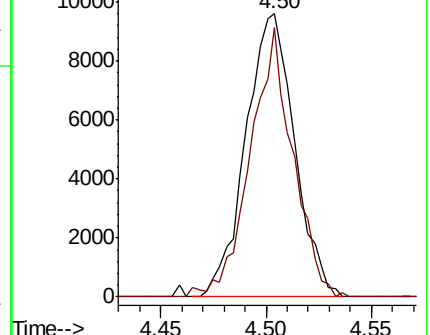
101 100

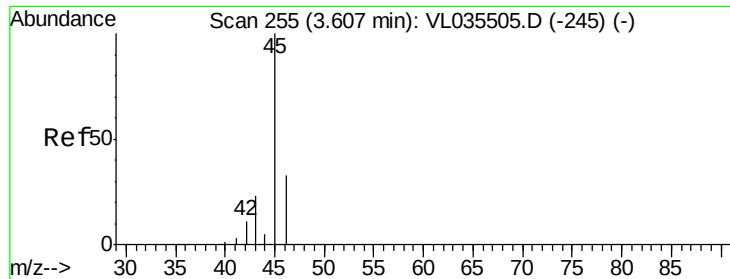
151 82.7 63.5 95.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

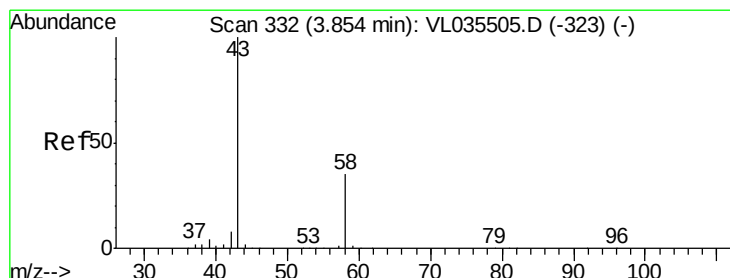
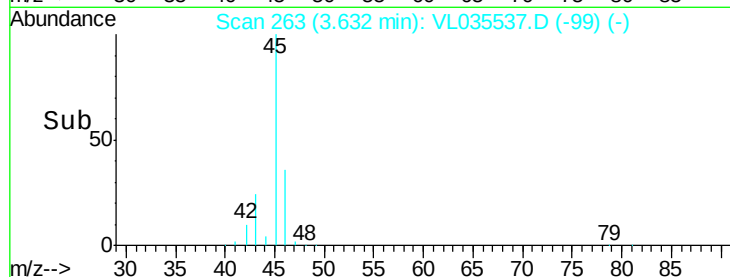
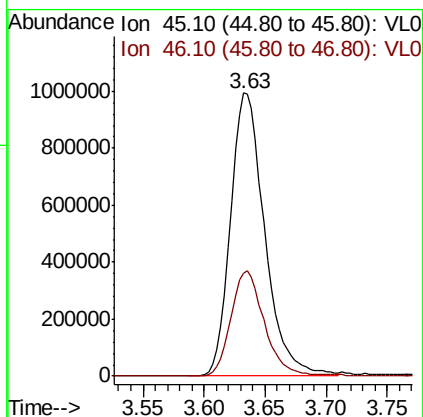
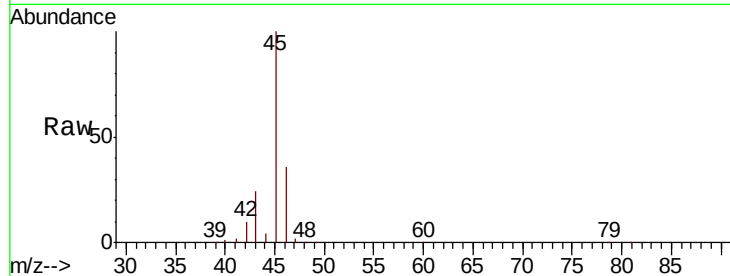




#13
Ethanol
Concen: 176.721 ppbv
RT: 3.63 min Scan# 263
Delta R.T. 0.03 min
Lab File: VL035537.D
Acq: 3 Sep 2020 19:14

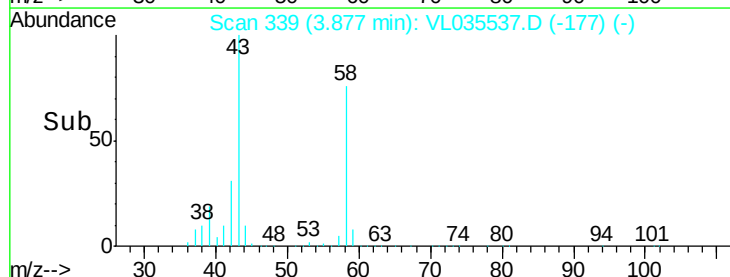
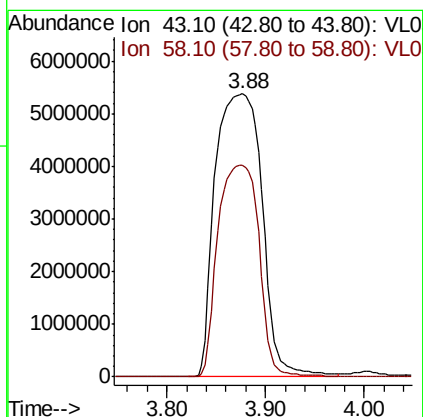
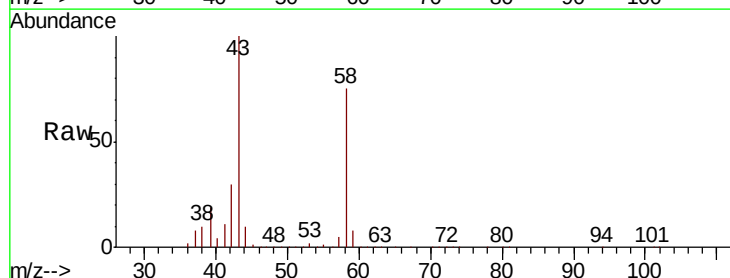
Instrument :
MSVOA_L
ClientSampled :
IA-3

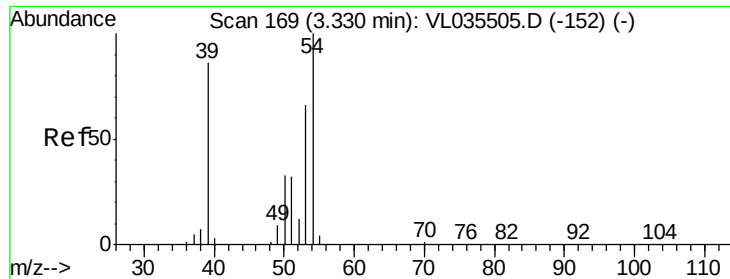
Tot Ion: 45 Resp: 1943613
Ion Ratio Lower Upper
45 100
46 36.7 15.2 60.6



#15
Acetone
Concen: 155.250 ppbv
RT: 3.88 min Scan# 339
Delta R.T. 0.02 min
Lab File: VL035537.D
Acq: 3 Sep 2020 19:14

Tgt Ion: 43 Resp: 17813556
Ion Ratio Lower Upper
43 100
58 65.9 28.4 42.6#

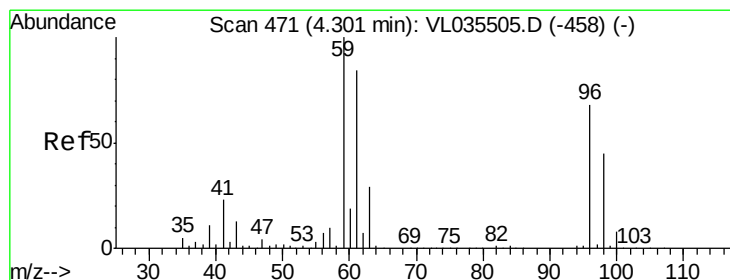
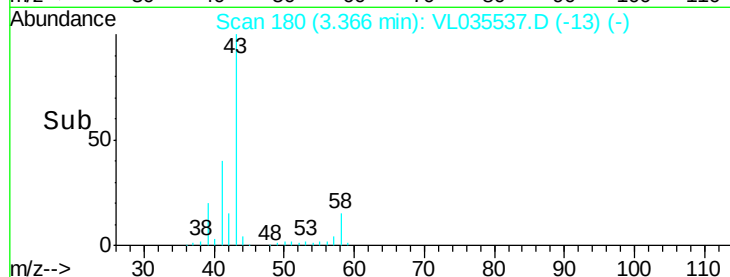
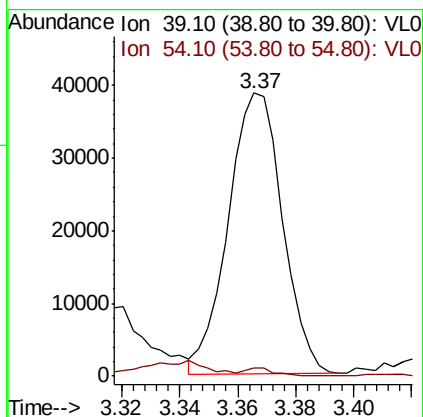
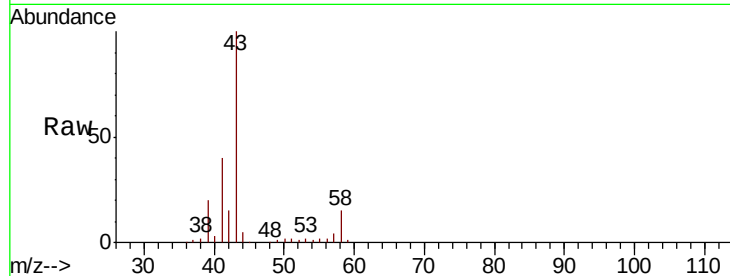




#16
 1,3-Butadiene
 Concen: 1.171 ppbv
 RT: 3.37 min Scan# 180
 Delta R.T. 0.04 min
 Lab File: VL035537.D
 Acq: 3 Sep 2020 19:14

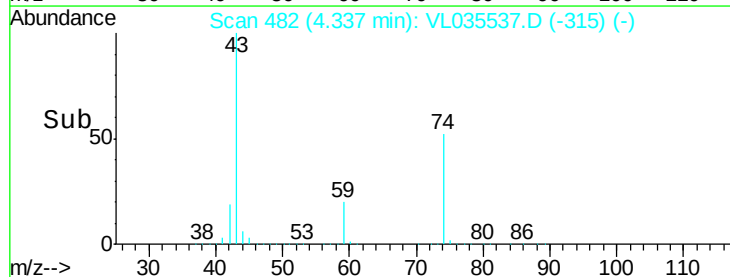
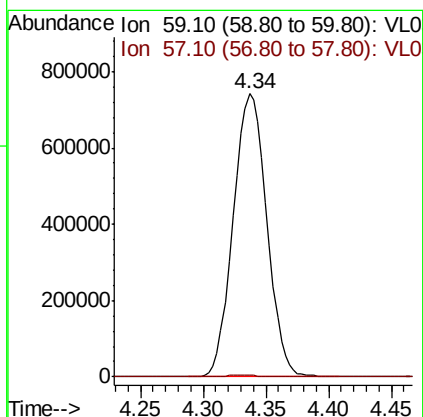
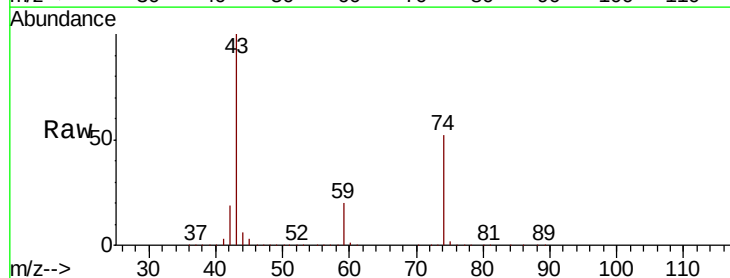
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-3

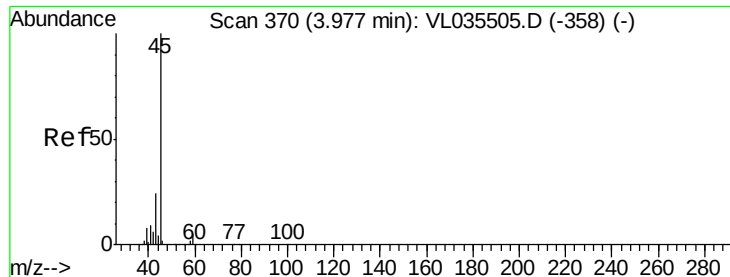
Tot Ion: 39 Resp: 50033
 Ion Ratio Lower Upper
 39 100
 54 8.9 88.4 132.6#



#17
 tert-Butyl alcohol
 Concen: 9.907 ppbv
 RT: 4.34 min Scan# 482
 Delta R.T. 0.04 min
 Lab File: VL035537.D
 Acq: 3 Sep 2020 19:14

Tgt Ion: 59 Resp: 1383705
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.4 12.6#





#19

Isopropyl Alcohol

Concen: 6.413 ppbv

RT: 4.00 min Scan# 378

Delta R.T. 0.03 min

Lab File: VL035537.D

Acq: 3 Sep 2020 19:14

Instrument :

MSVOA_L

ClientSampled :

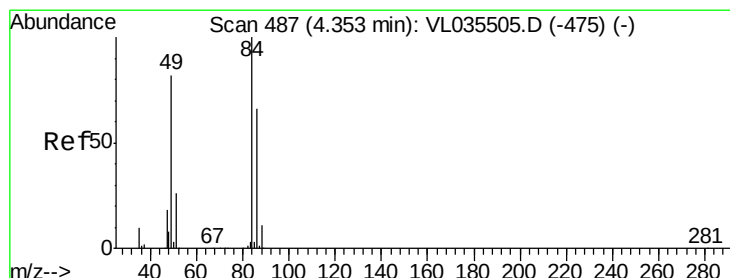
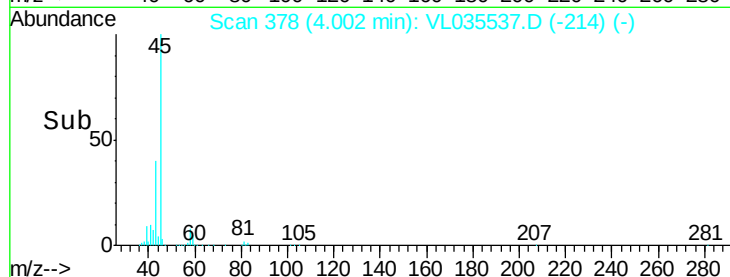
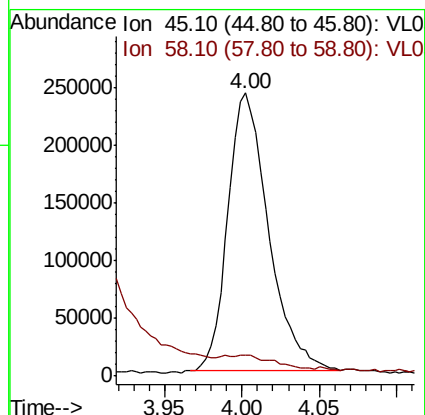
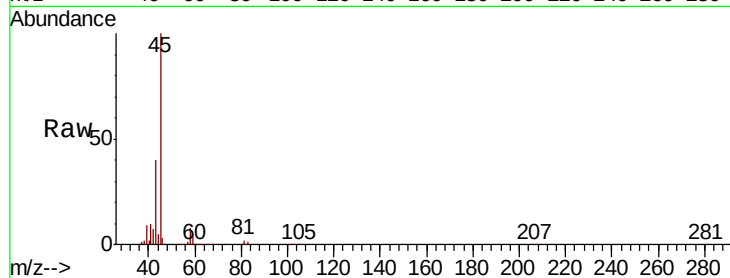
IA-3

Tot Ion: 45 Resp: 438962

Ion Ratio Lower Upper

45 100

58 0.0 2.0 3.0#



#20

Methylene Chloride

Concen: 10.612 ppbv

RT: 4.38 min Scan# 495

Delta R.T. 0.03 min

Lab File: VL035537.D

Acq: 3 Sep 2020 19:14

Tgt Ion: 84 Resp: 906897

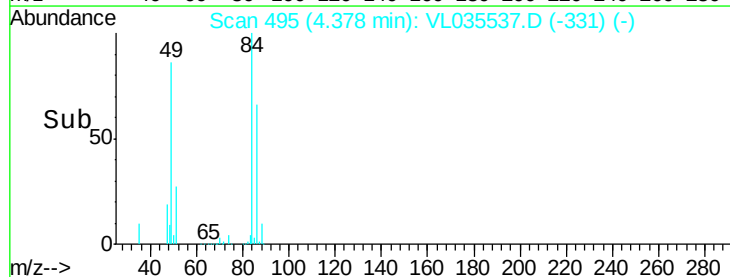
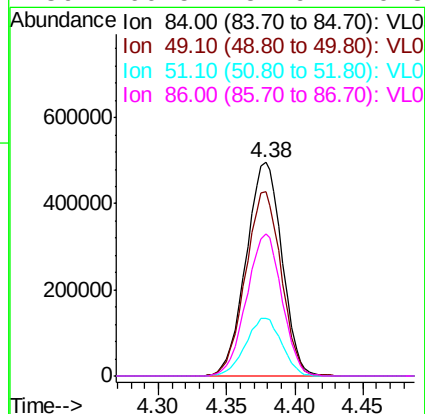
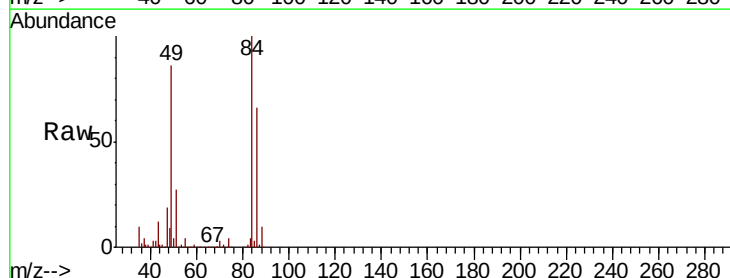
Ion Ratio Lower Upper

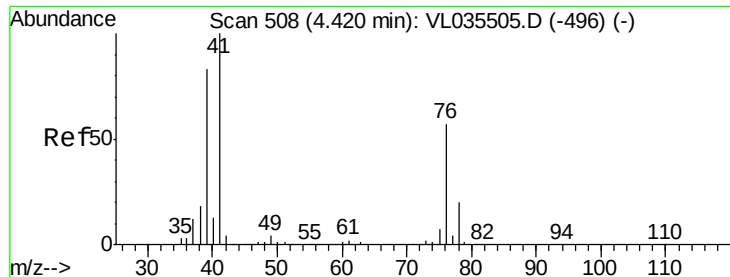
84 100

49 86.4 65.4 98.0

51 27.1 21.5 32.3

86 66.5 52.9 79.3





#21

Allvl Chloride

Concen: 0.330 ppbv

RT: 4.38 min Scan# 495

Delta R.T. -0.04 min

Lab File: VL035537.D

Acq: 3 Sep 2020 19:14

Instrument :

MSVOA_L

ClientSampleId :

IA-3

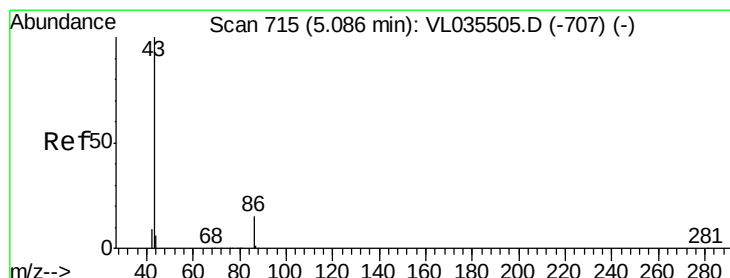
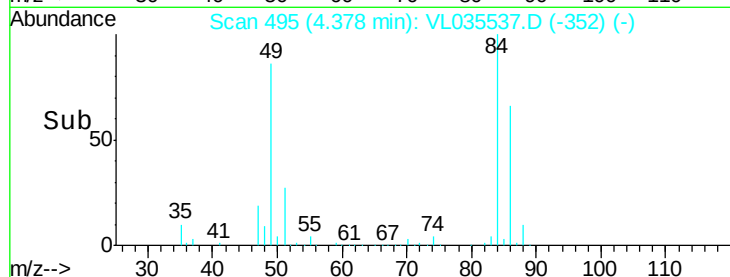
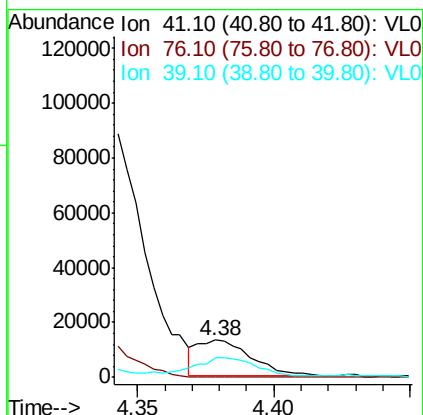
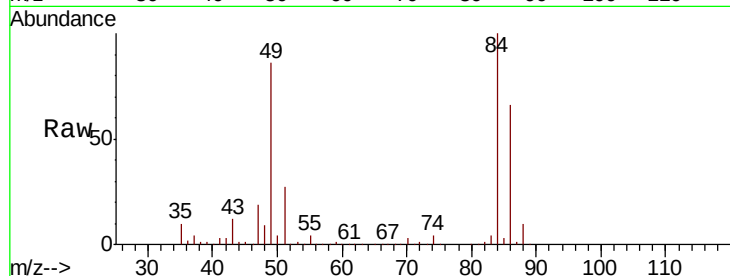
Tot Ion: 41 Resp: 17731

Ion Ratio Lower Upper

41 100

76 0.0 46.2 69.2#

39 58.8 67.8 101.6#



#23

Vinyl Acetate

Concen: 0.691 ppbv

RT: 5.11 min Scan# 724

Delta R.T. 0.03 min

Lab File: VL035537.D

Acq: 3 Sep 2020 19:14

Tgt Ion: 43 Resp: 101751

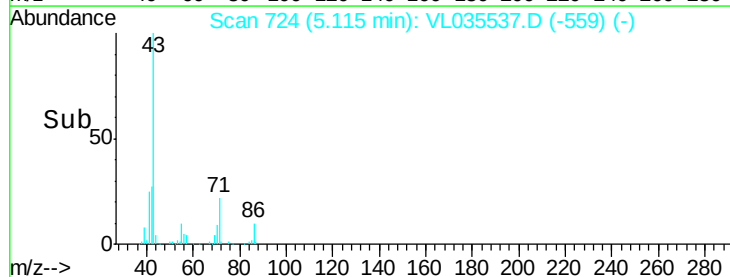
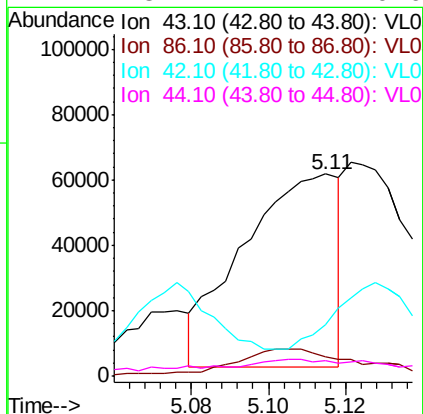
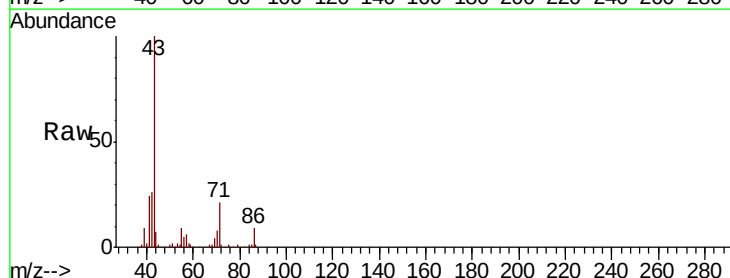
Ion Ratio Lower Upper

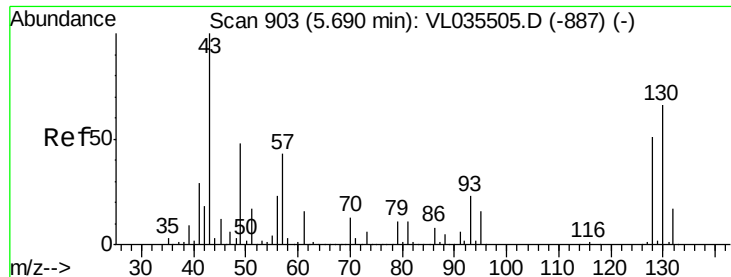
43 100

86 10.6 10.6 16.0

42 0.0 7.5 11.3#

44 3.7 4.4 6.6#

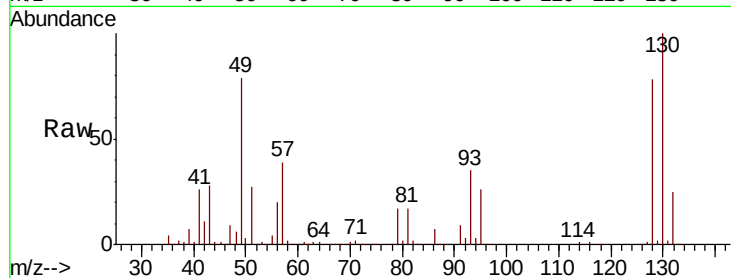




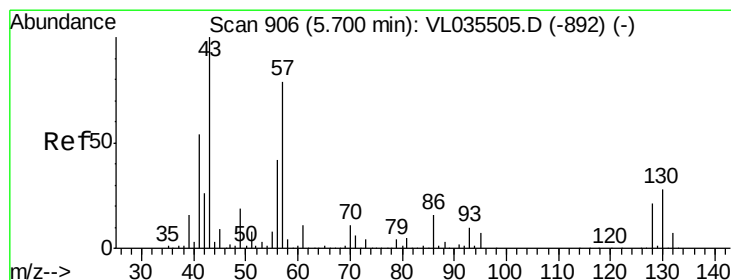
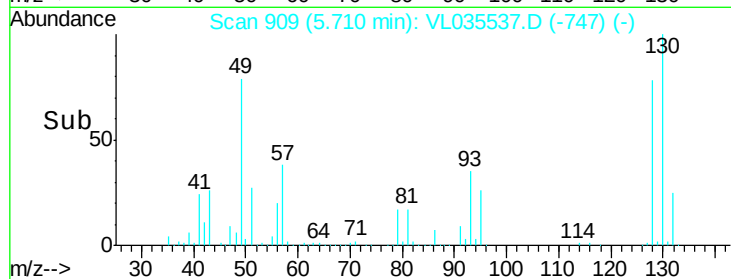
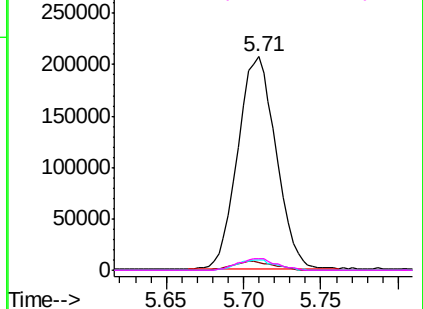
#25
Ethyl Acetate
Concen: 1.762 ppbv
RT: 5.71 min Scan# 909
Delta R.T. 0.02 min
Lab File: VL035537.D
Acq: 3 Sep 2020 19:14

Instrument :
MSVOA_L
ClientSampleId :
IA-3

Tot Ion: 43 Resp: 357142
Ion Ratio Lower Upper
43 100
45 4.7 8.4 12.6#
61 5.0 10.6 16.0#
70 5.6 9.4 14.2#

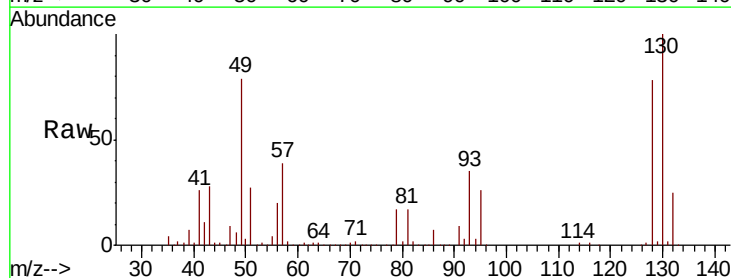


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

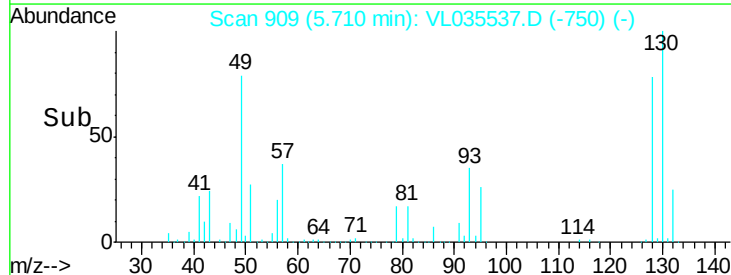
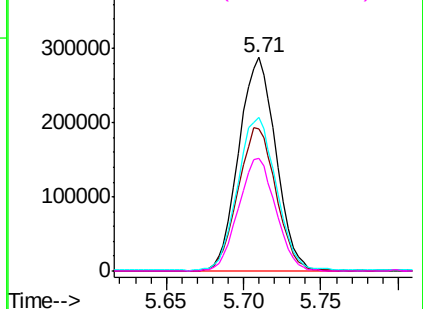


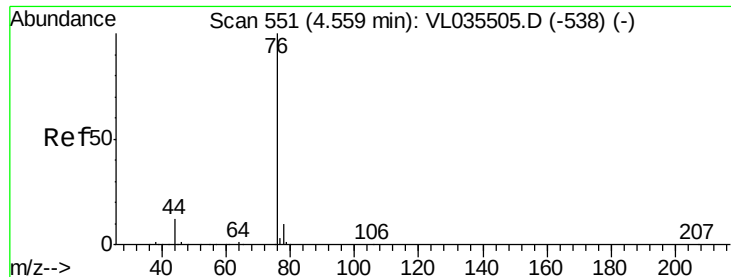
#26
Hexane
Concen: 4.175 ppbv
RT: 5.71 min Scan# 909
Delta R.T. 0.01 min
Lab File: VL035537.D
Acq: 3 Sep 2020 19:14

Tgt Ion: 57 Resp: 479571
Ion Ratio Lower Upper
57 100
41 69.2 55.9 83.9
43 74.3 141.8 212.8#
56 53.0 41.8 62.8



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





#27

Carbon Disulfide

Concen: 0.036 ppbv

RT: 4.57 min Scan# 554

Delta R.T. 0.01 min

Lab File: VL035537.D

Acq: 3 Sep 2020 19:14

Instrument :

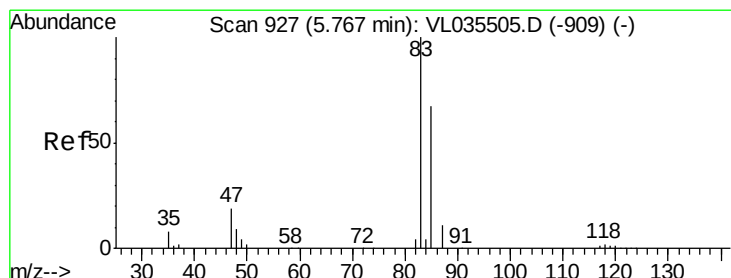
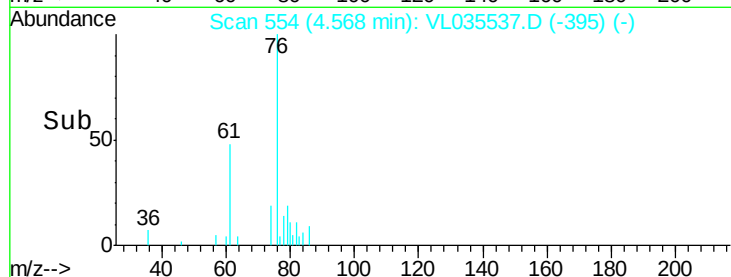
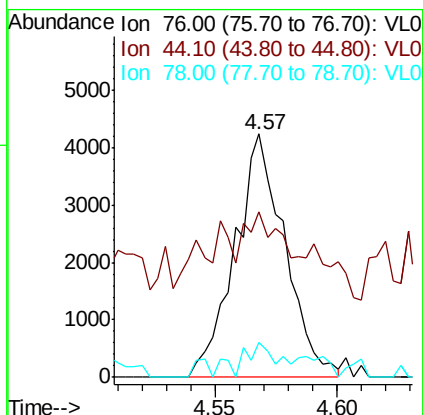
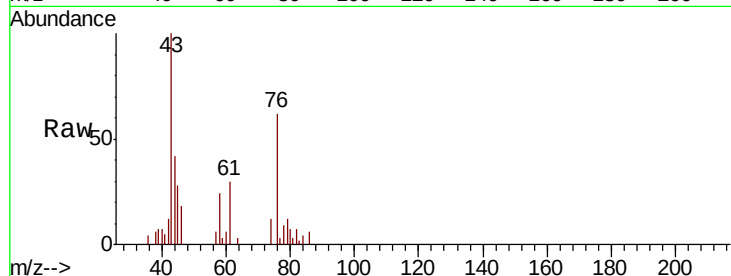
MSVOA_L

ClientSampleId :

IA-3

Tot Ion: 76 Resp: 6015

Ion	Ratio	Lower	Upper
76	100		
44	0.0	9.3	13.9#
78	10.7	7.8	11.6



#29

Chloroform

Concen: 0.097 ppbv

RT: 5.79 min Scan# 935

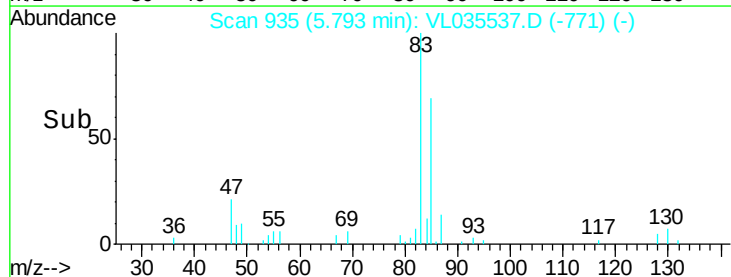
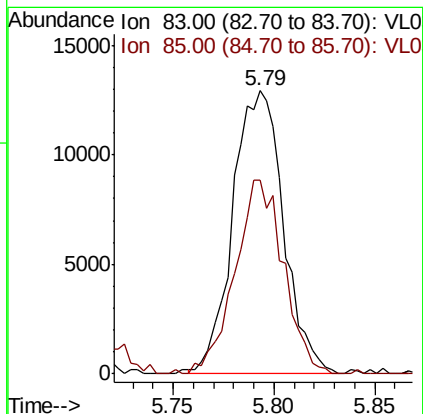
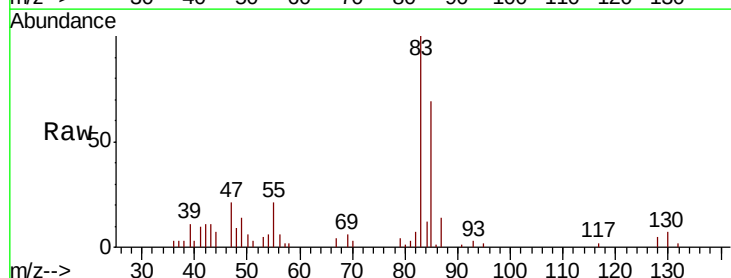
Delta R.T. 0.03 min

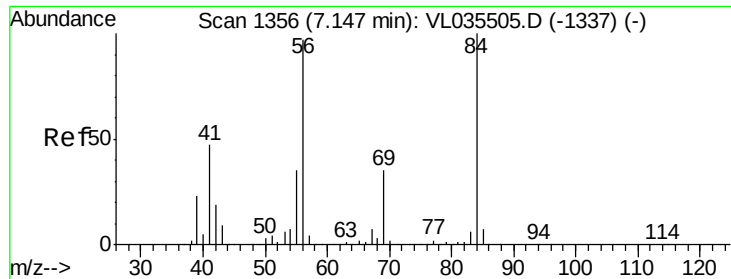
Lab File: VL035537.D

Acq: 3 Sep 2020 19:14

Tgt Ion: 83 Resp: 22681

Ion	Ratio	Lower	Upper
83	100		
85	68.5	53.9	80.9

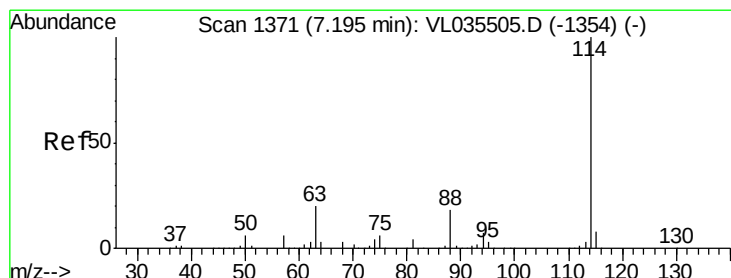
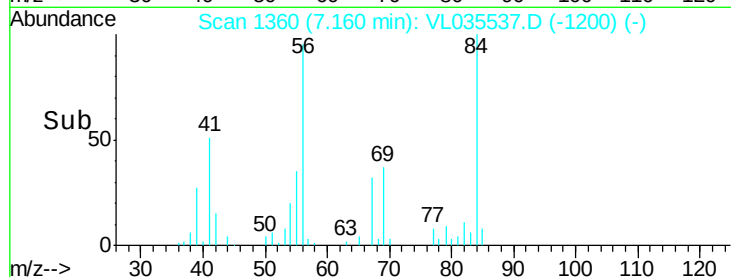
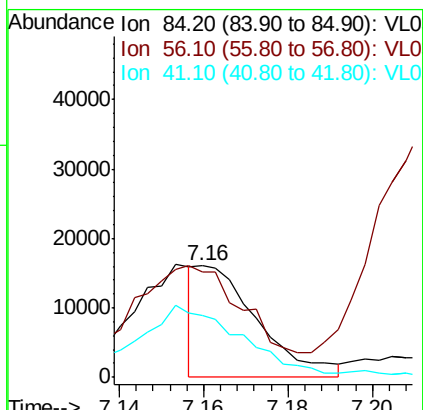
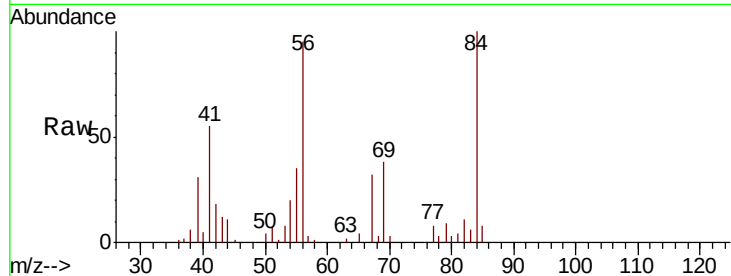




#30
Cyclohexane
Concen: 0.132 ppbv
RT: 7.16 min Scan# 1360
Delta R.T. 0.01 min
Lab File: VL035537.D
Acq: 3 Sep 2020 19:14

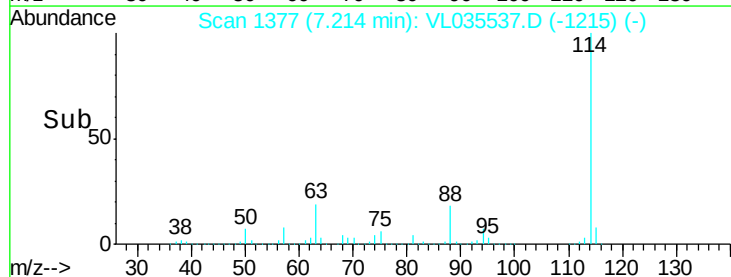
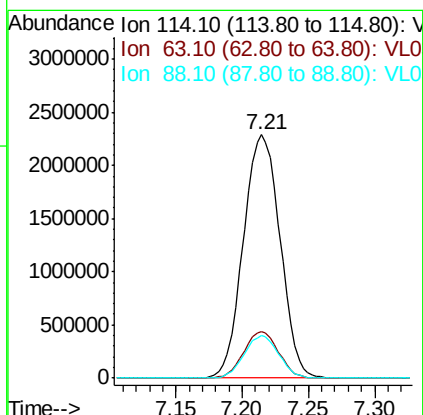
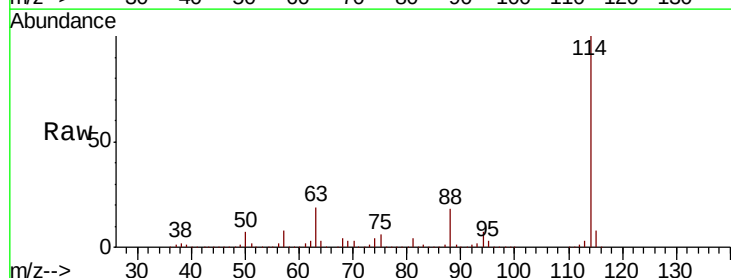
Instrument :
MSVOA_L
ClientSampled :
IA-3

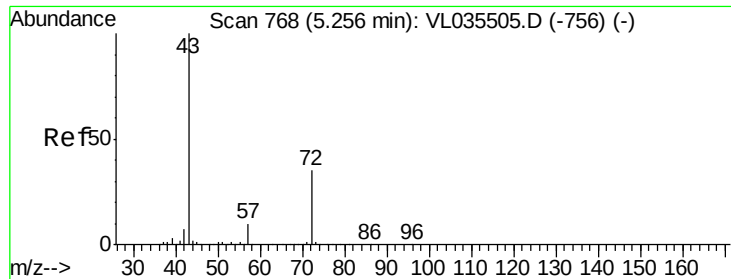
Tot Ion: 84 Resp: 16199
Ion Ratio Lower Upper
84 100
56 204.2 80.1 120.1#
41 0.0 38.1 57.1#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.21 min Scan# 1377
Delta R.T. 0.02 min
Lab File: VL035537.D
Acq: 3 Sep 2020 19:14

Tgt Ion: 114 Resp: 4414299
Ion Ratio Lower Upper
114 100
63 18.3 14.7 22.1
88 16.6 13.4 20.2

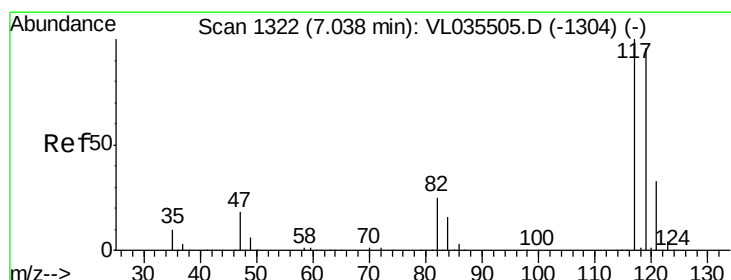
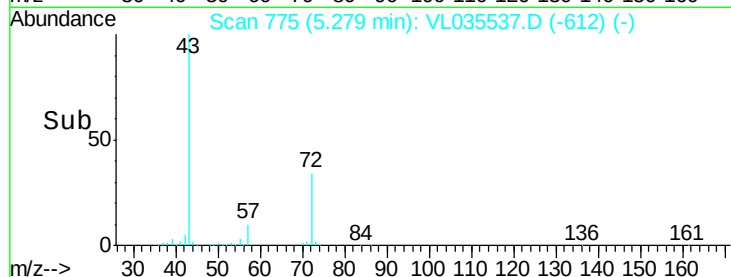
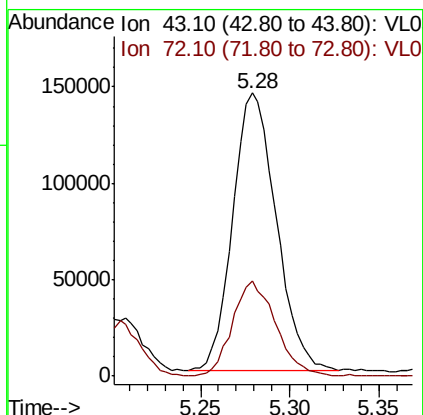
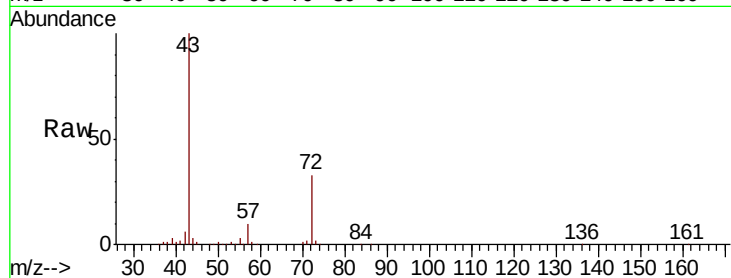




#34
2-Butanone
Concen: 1.874 ppbv
RT: 5.28 min Scan# 775
Delta R.T. 0.02 min
Lab File: VL035537.D
Acq: 3 Sep 2020 19:14

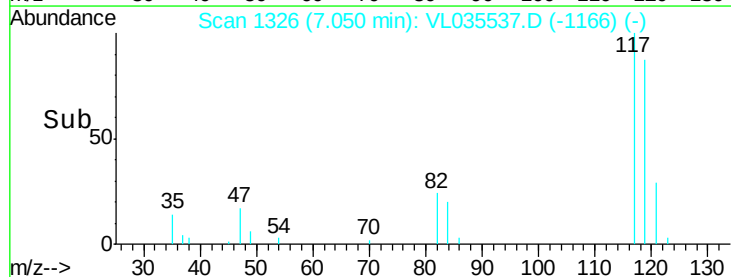
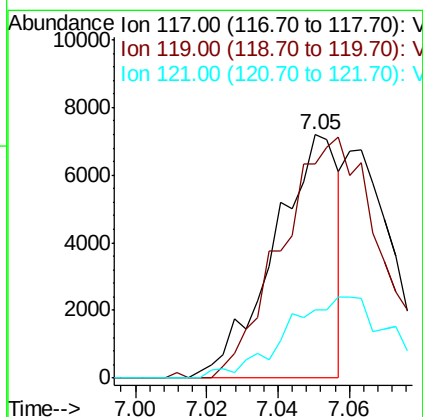
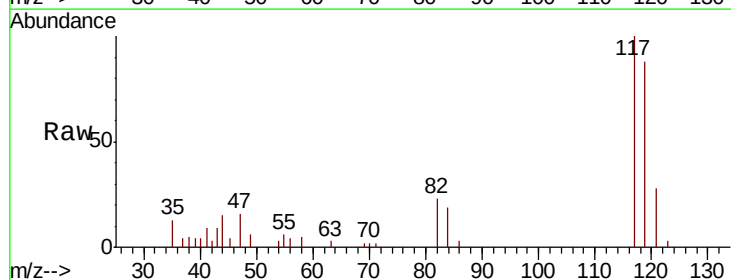
Instrument :
MSVOA_L
ClientSampled :
IA-3

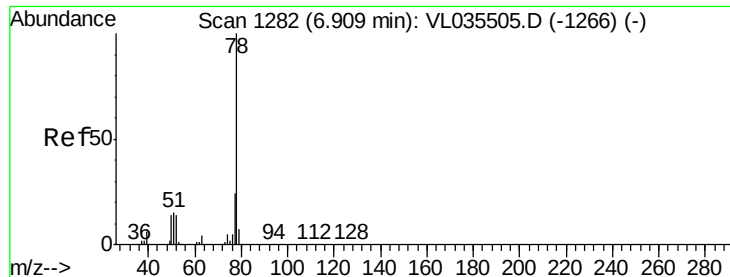
Tot Ion: 43 Resp: 245548
Ion Ratio Lower Upper
43 100
72 34.0 27.7 41.5



#35
Carbon Tetrachloride
Concen: 0.040 ppbv
RT: 7.05 min Scan# 1326
Delta R.T. 0.01 min
Lab File: VL035537.D
Acq: 3 Sep 2020 19:14

Tgt Ion: 117 Resp: 8949
Ion Ratio Lower Upper
117 100
119 87.8 77.2 115.8
121 28.0 26.1 39.1





#36

Benzene

Concen: 0.466 ppbv

RT: 6.93 min Scan# 1289

Delta R.T. 0.02 min

Lab File: VL035537.D

Acq: 3 Sep 2020 19:14

Instrument :

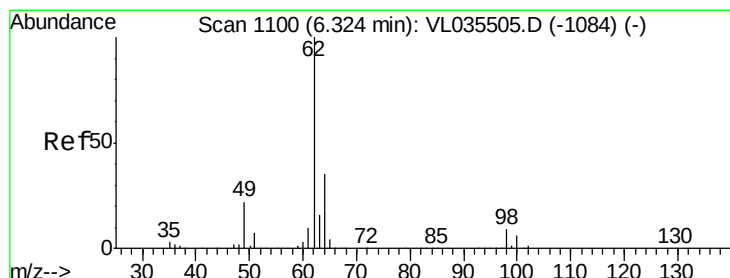
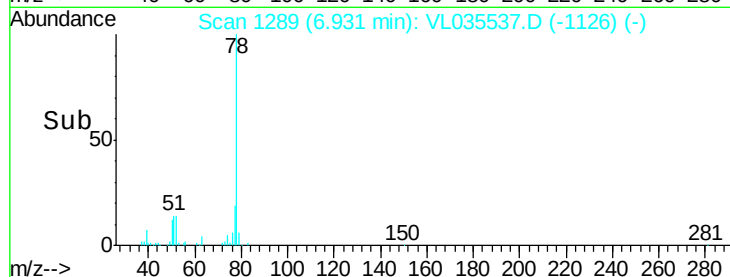
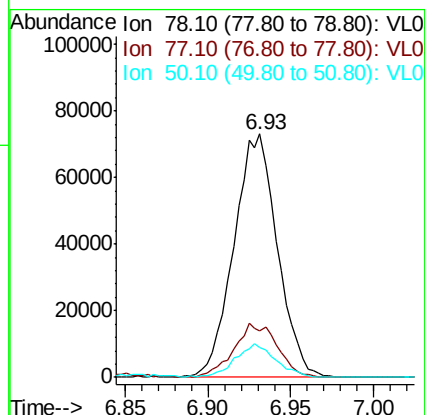
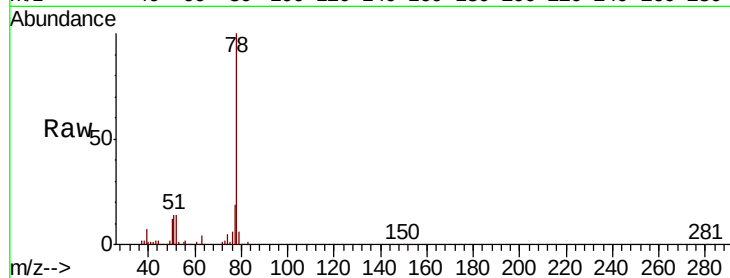
MSVOA_L

ClientSampleId :

IA-3

Tot Ion: 78 Resp: 133028

Ion	Ratio	Lower	Upper
78	100		
77	19.3	19.3	28.9#
50	12.1	11.0	16.6



#37

1,2-Dichloroethane

Concen: 0.091 ppbv

RT: 6.35 min Scan# 1107

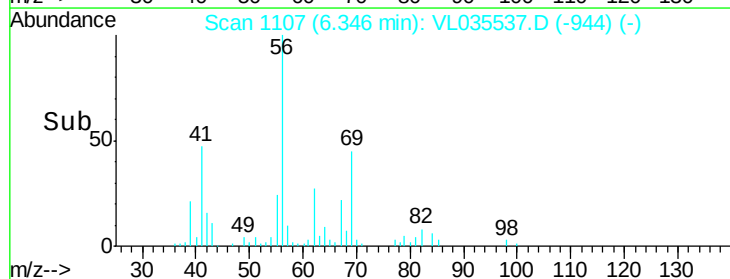
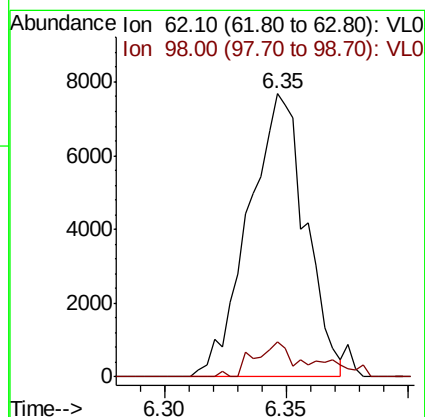
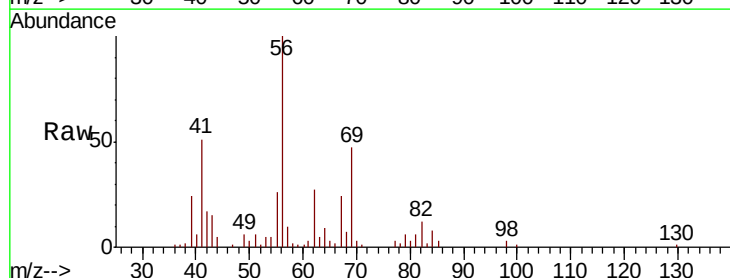
Delta R.T. 0.02 min

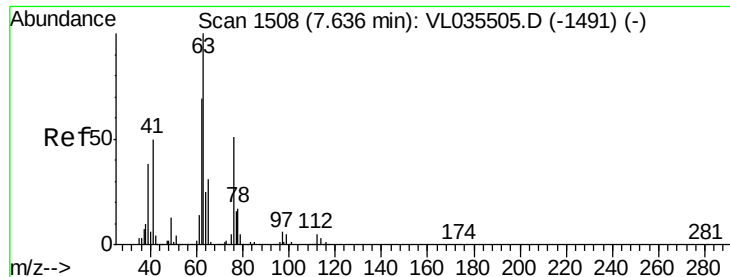
Lab File: VL035537.D

Acq: 3 Sep 2020 19:14

Tgt Ion: 62 Resp: 12451

Ion	Ratio	Lower	Upper
62	100		
98	12.1	7.4	11.0#





#39

1,2-Dichloropropane

Concen: 8.314 ppbv

RT: 7.21 min Scan# 1377

Delta R.T. -0.42 min

Lab File: VL035537.D

Acq: 3 Sep 2020 19:14

Instrument :

MSVOA_L

ClientSampled :

IA-3

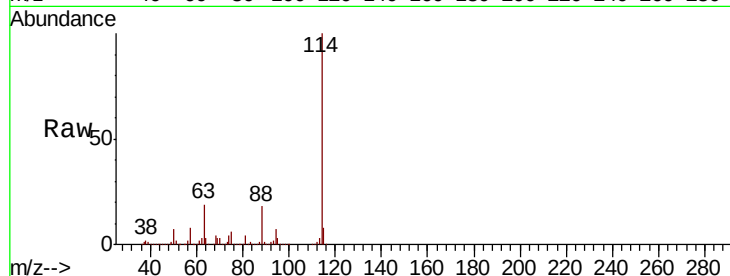
Tot Ion: 63 Resp: 802489

Ion Ratio Lower Upper

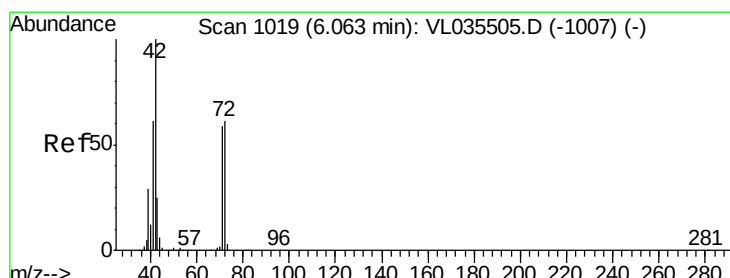
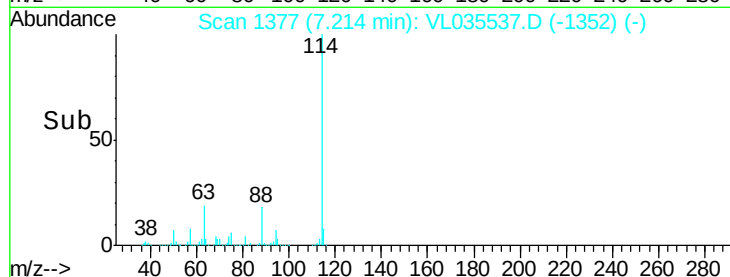
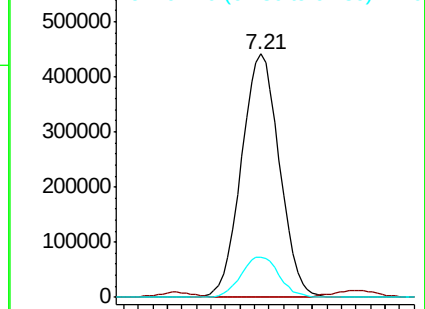
63 100

41 0.0 40.0 60.0#

62 16.4 55.4 83.0#



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: 0.096 ppbv

RT: 6.09 min Scan# 1026

Delta R.T. 0.02 min

Lab File: VL035537.D

Acq: 3 Sep 2020 19:14

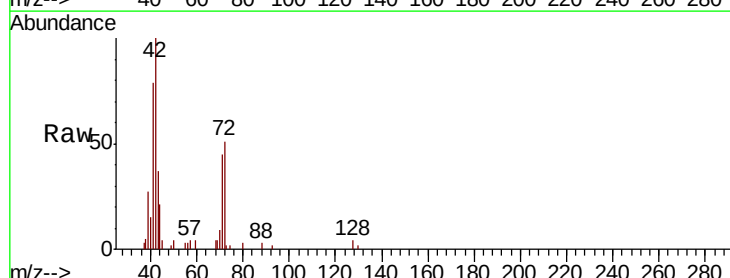
Tgt Ion: 42 Resp: 6666

Ion Ratio Lower Upper

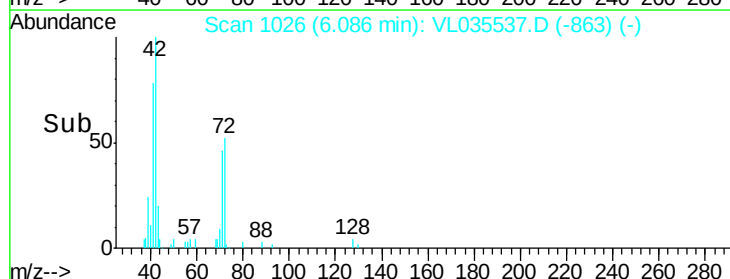
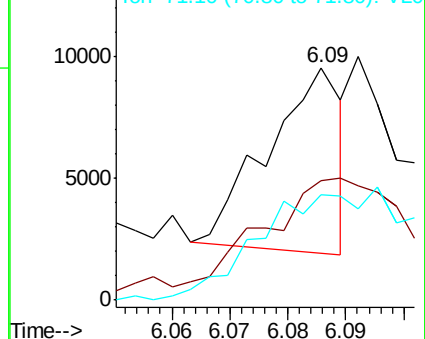
42 100

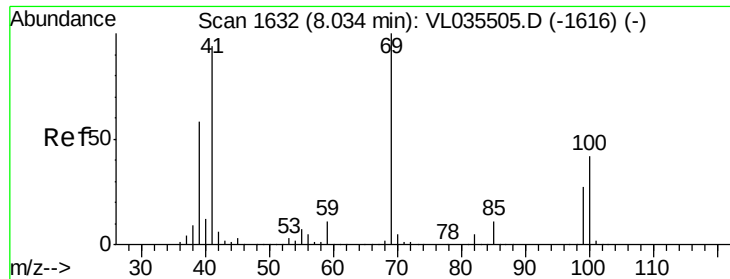
72 0.0 48.6 73.0#

71 0.0 46.1 69.1#



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

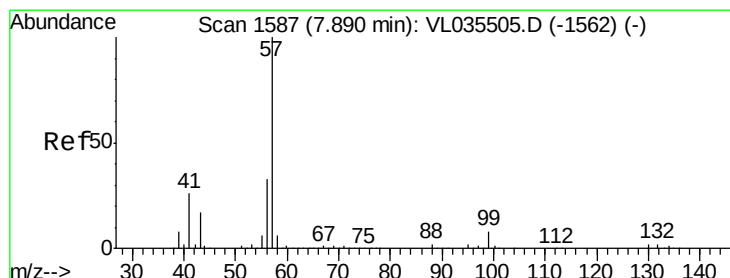
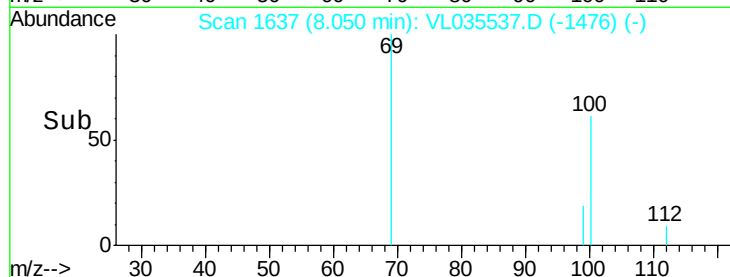
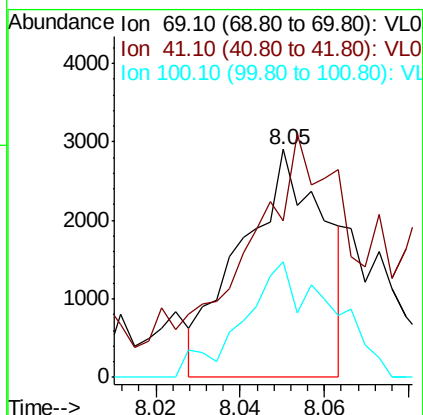
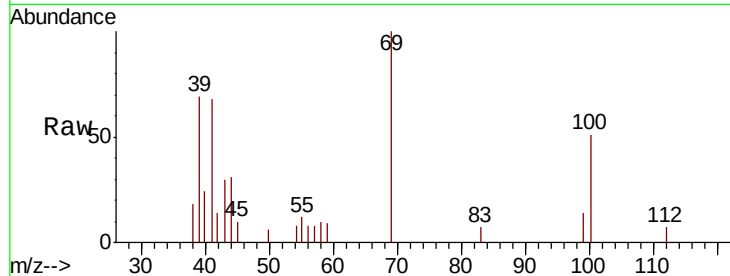




#43
Methyl Methacrylate
Concen: 0.036 ppbv
RT: 8.05 min Scan# 1637
Delta R.T. 0.02 min
Lab File: VL035537.D
Acq: 3 Sep 2020 19:14

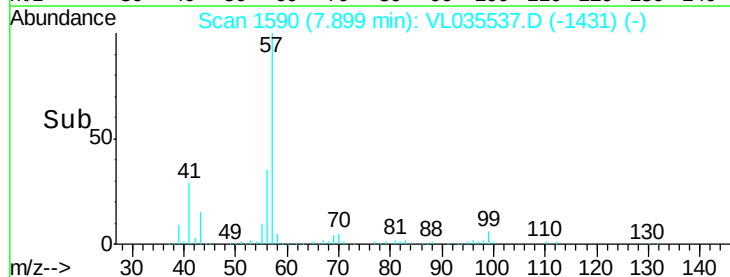
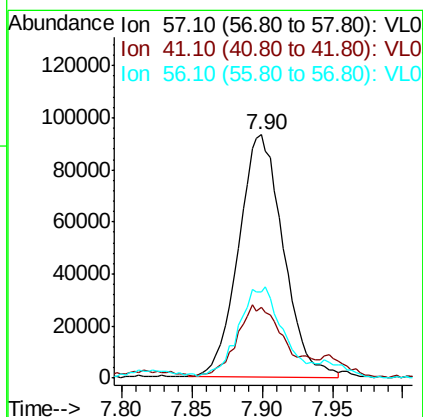
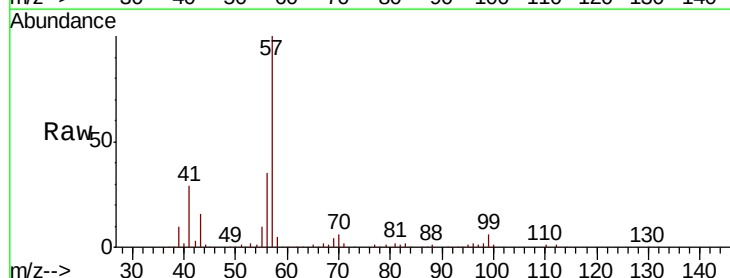
Instrument :
MSVOA_L
ClientSampleId :
IA-3

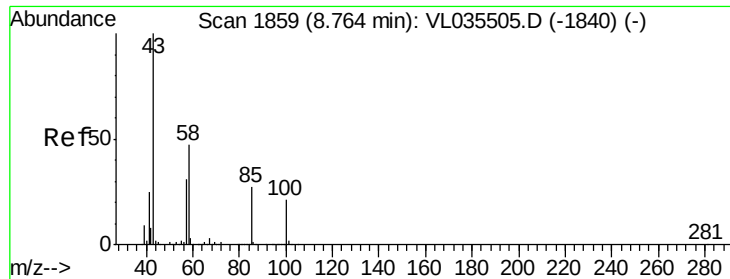
Tot Ion: 69 Resp: 3952
Ion Ratio Lower Upper
69 100
41 146.2 76.6 114.8#
100 54.5 33.8 50.6#



#44
2,2,4-Trimethylpentane
Concen: 0.550 ppbv
RT: 7.90 min Scan# 1590
Delta R.T. 0.01 min
Lab File: VL035537.D
Acq: 3 Sep 2020 19:14

Tgt Ion: 57 Resp: 206921
Ion Ratio Lower Upper
57 100
41 37.3 20.5 30.7#
56 42.3 25.3 37.9#

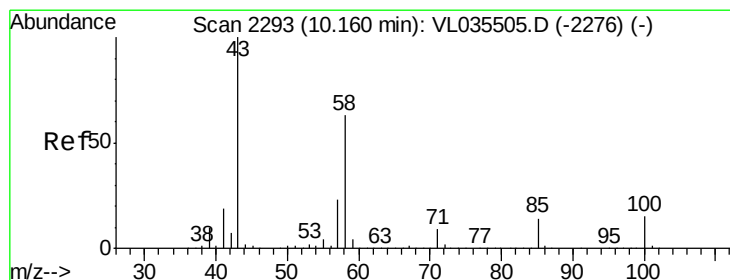
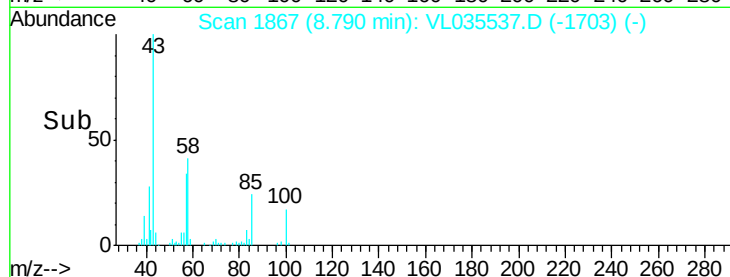
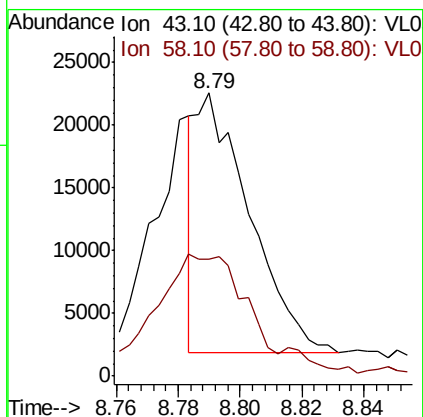
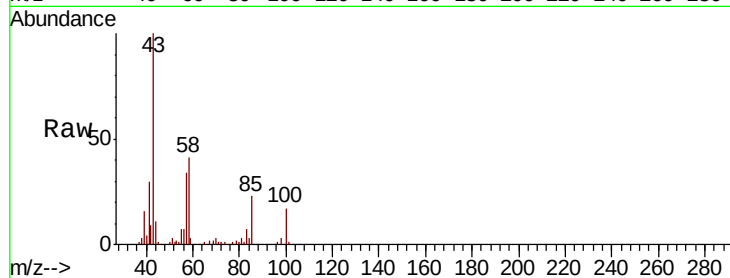




#50
4-Methyl-2-Pentanone
Concen: 0.130 ppbv
RT: 8.79 min Scan# 1867
Delta R.T. 0.03 min
Lab File: VL035537.D
Acq: 3 Sep 2020 19:14

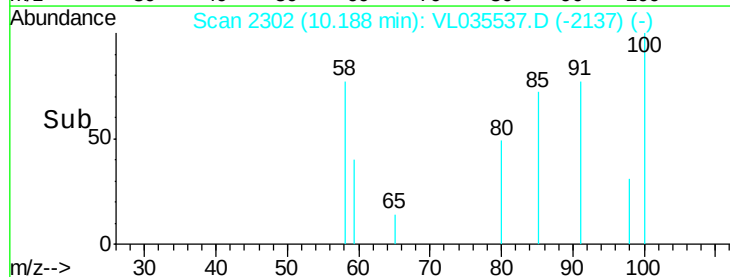
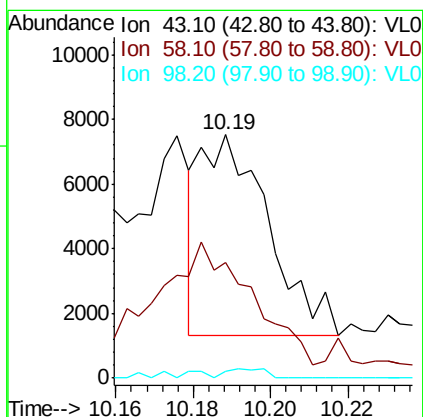
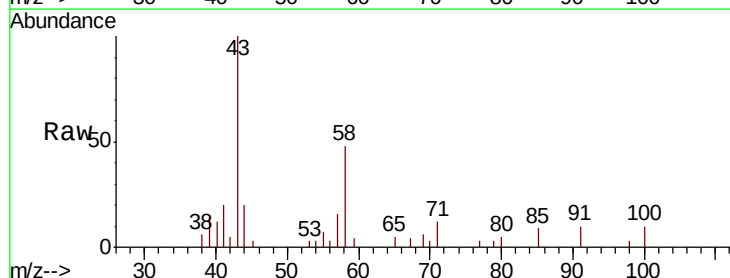
Instrument :
MSVOA_L
ClientSampleId :
IA-3

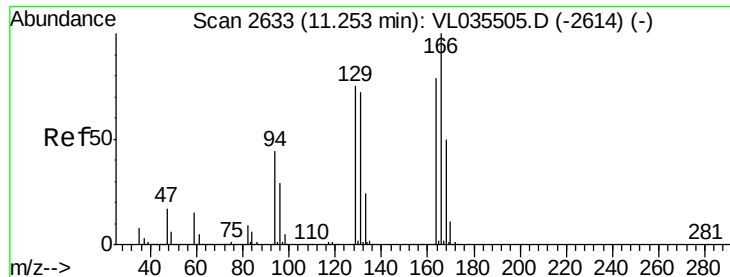
Tot Ion: 43 Resp: 24634
Ion Ratio Lower Upper
43 100
58 94.5 37.4 56.0#



#51
2-Hexanone
Concen: 0.048 ppbv
RT: 10.19 min Scan# 2302
Delta R.T. 0.03 min
Lab File: VL035537.D
Acq: 3 Sep 2020 19:14

Tgt Ion: 43 Resp: 7537
Ion Ratio Lower Upper
43 100
58 103.1 50.2 75.4#
98 4.4 0.4 0.6#





#52

Tetrachloroethene

Concen: 0.042 ppbv

RT: 11.27 min Scan# 2639

Delta R.T. 0.02 min

Lab File: VL035537.D

Acq: 3 Sep 2020 19:14

Instrument :

MSVOA_L

ClientSampleId :

IA-3

Tot Ion:164 Resp: 7088

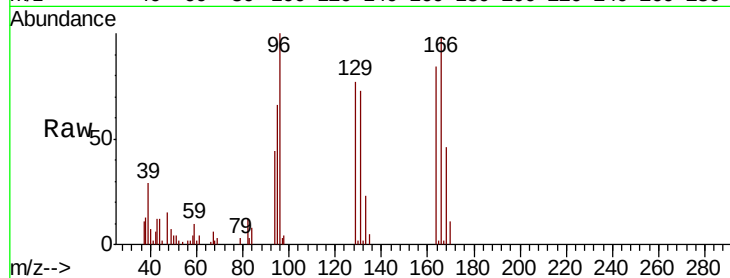
Ion Ratio Lower Upper

164 100

166 117.1 100.9 151.3

129 91.6 75.3 112.9

131 85.0 73.0 109.4



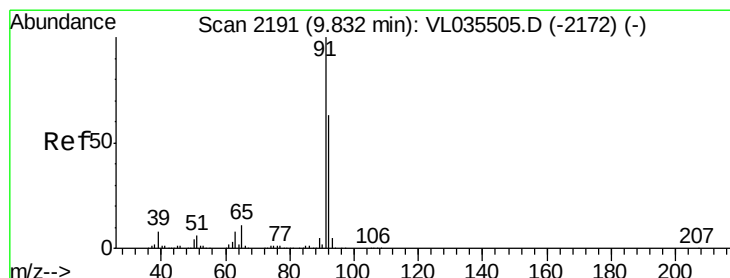
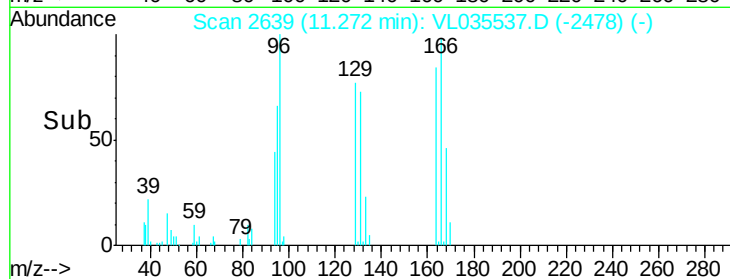
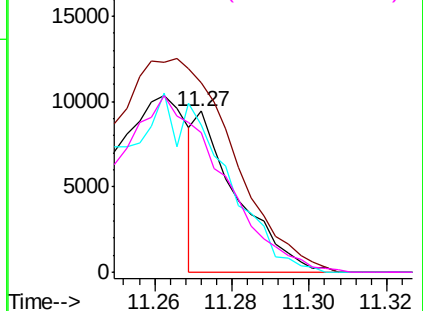
Abundance

Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 6.368 ppbv

RT: 9.84 min Scan# 2195

Delta R.T. 0.01 min

Lab File: VL035537.D

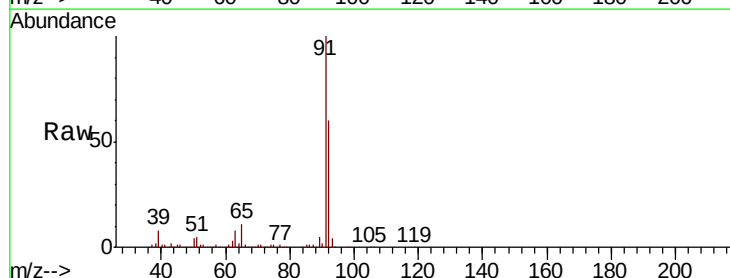
Acq: 3 Sep 2020 19:14

Tgt Ion: 91 Resp: 2288195

Ion Ratio Lower Upper

91 100

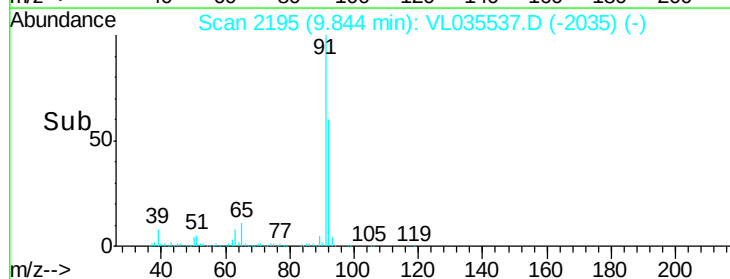
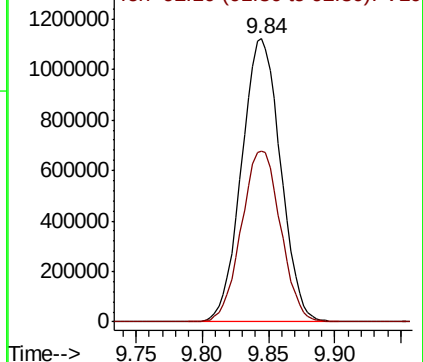
92 60.8 49.8 74.8

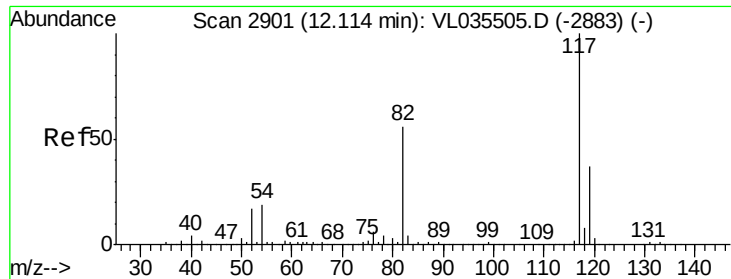


Abundance

Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

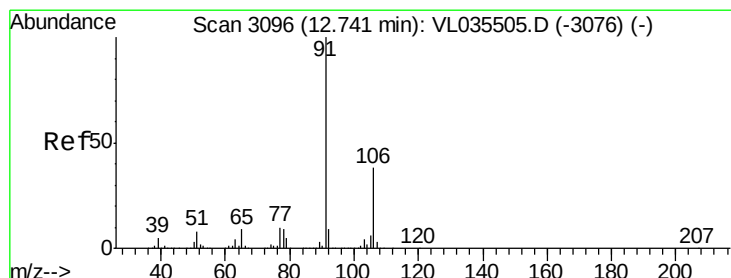
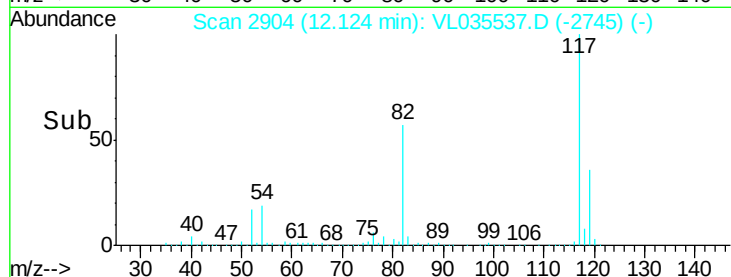
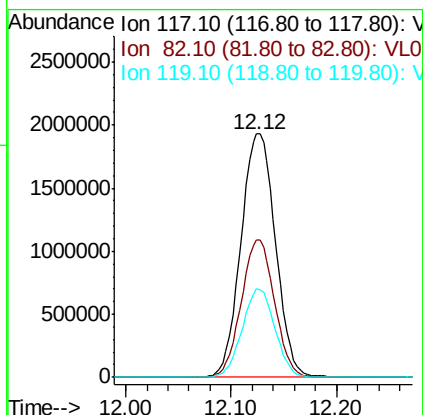
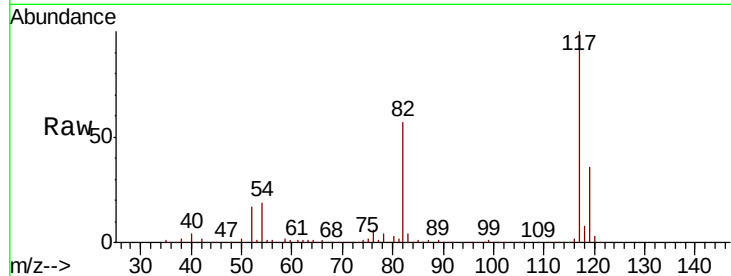




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.12 min Scan# 2904
Delta R.T. 0.01 min
Lab File: VL035537.D
Acq: 3 Sep 2020 19:14

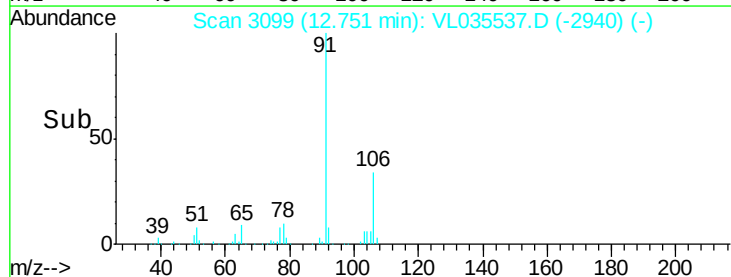
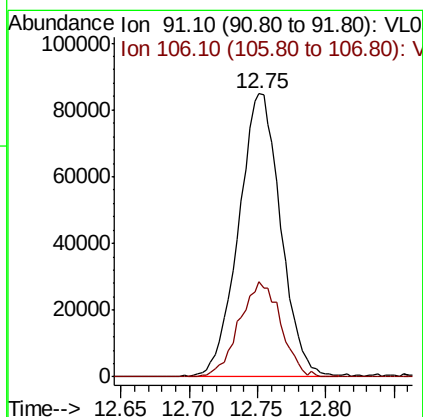
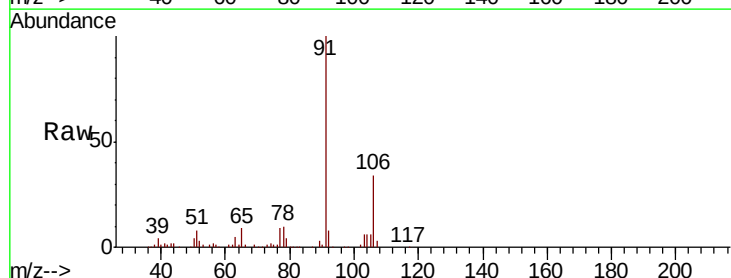
Instrument :
MSVOA_L
ClientSampleId :
IA-3

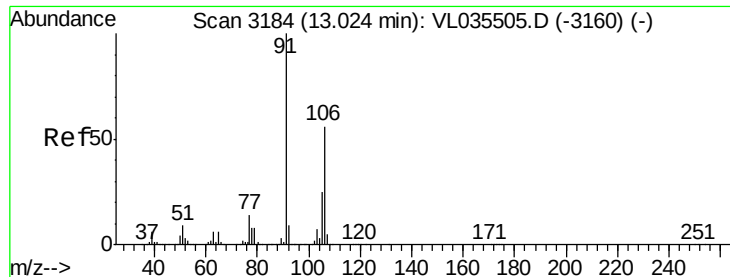
Tot Ion:117 Resp: 4401286
Ion Ratio Lower Upper
117 100
82 54.9 41.6 62.4
119 34.7 29.3 43.9



#58
Ethyl Benzene
Concen: 0.400 ppbv
RT: 12.75 min Scan# 3099
Delta R.T. 0.01 min
Lab File: VL035537.D
Acq: 3 Sep 2020 19:14

Tgt Ion: 91 Resp: 181475
Ion Ratio Lower Upper
91 100
106 33.8 30.3 45.5





#59

m/p-Xylene

Concen: 1.634 ppbv

RT: 13.01 min Scan# 3179

Delta R.T. -0.02 min

Lab File: VL035537.D

Acq: 3 Sep 2020 19:14

Instrument :

MSVOA_L

ClientSampled :

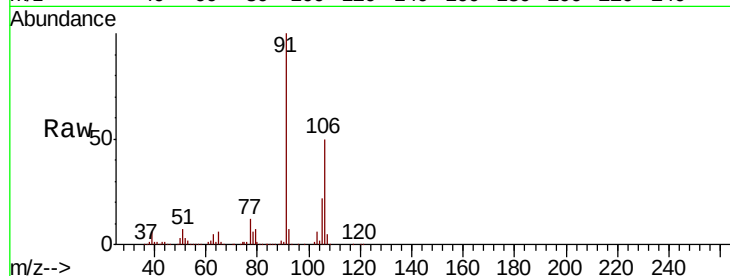
IA-3

Tot Ion: 91 Resp: 619729

Ion Ratio Lower Upper

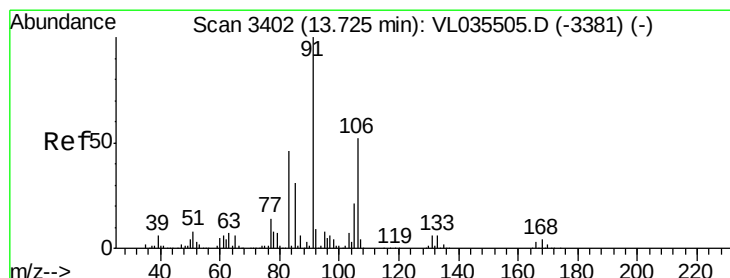
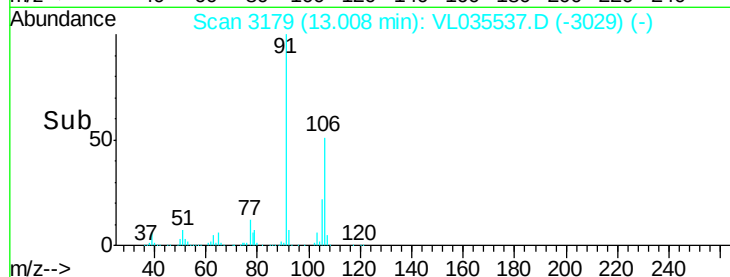
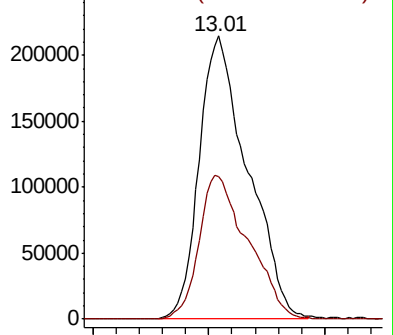
91 100

106 51.5 43.4 65.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 0.591 ppbv

RT: 13.73 min Scan# 3403

Delta R.T. 0.00 min

Lab File: VL035537.D

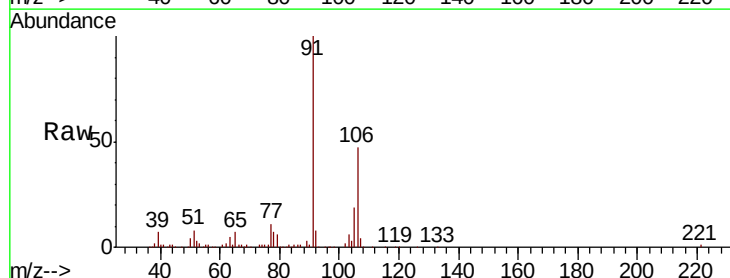
Acq: 3 Sep 2020 19:14

Tgt Ion: 91 Resp: 225825

Ion Ratio Lower Upper

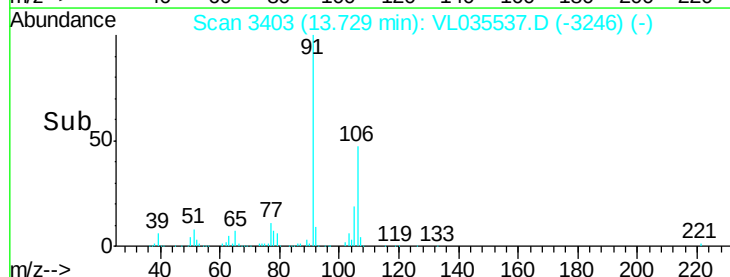
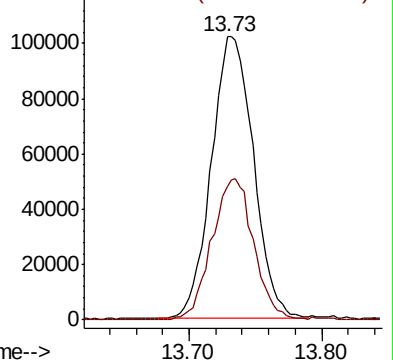
91 100

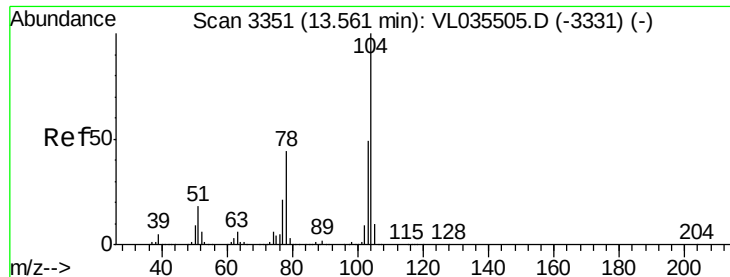
106 49.9 25.8 77.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#61

Stvrene

Concen: 0.056 ppbv

RT: 13.57 min Scan# 3354

Delta R.T. 0.01 min

Lab File: VL035537.D

Acq: 3 Sep 2020 19:14

Instrument :

MSVOA_L

ClientSampleId :

IA-3

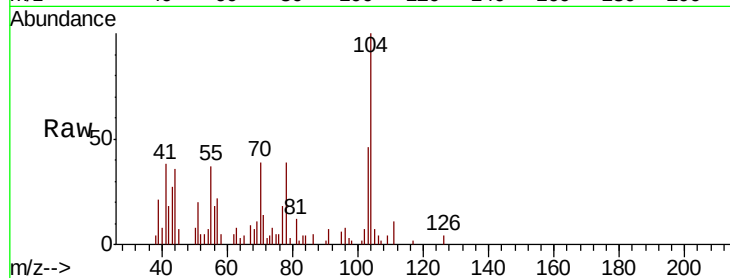
Tot Ion:104 Resp: 16447

Ion Ratio Lower Upper

104 100

78 52.4 34.8 52.2#

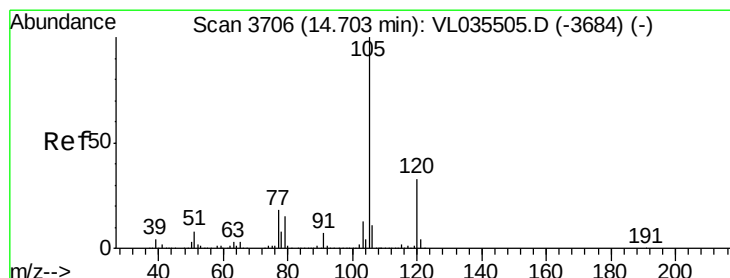
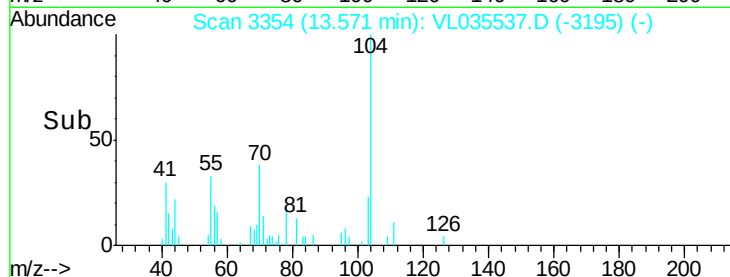
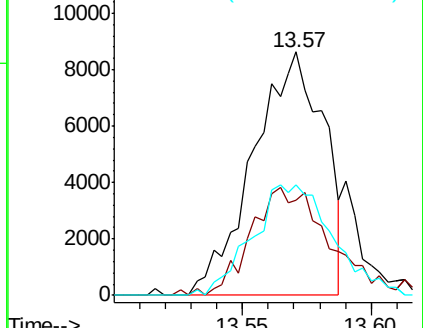
103 52.3 38.2 57.4



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: 0.038 ppbv

RT: 14.71 min Scan# 3708

Delta R.T. 0.01 min

Lab File: VL035537.D

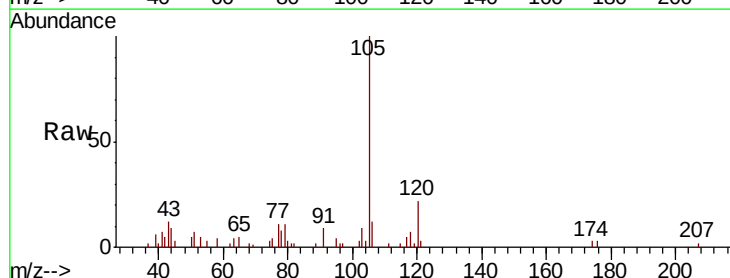
Acq: 3 Sep 2020 19:14

Tgt Ion:105 Resp: 23615

Ion Ratio Lower Upper

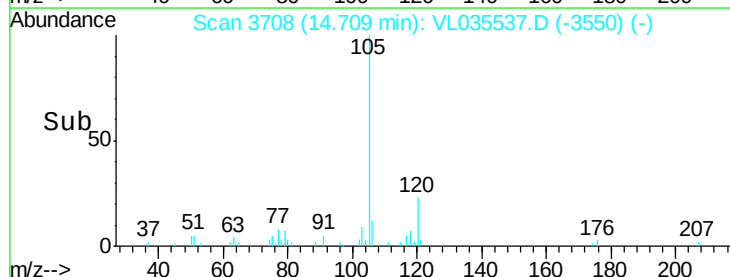
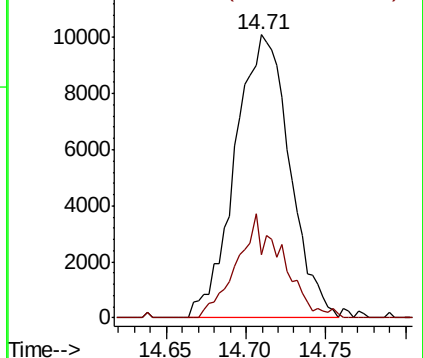
105 100

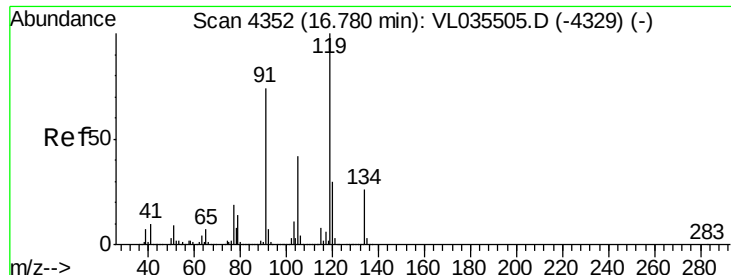
120 30.8 25.0 37.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#65

tert-Butylbenzene

Concen: 0.064 ppbv

RT: 16.81 min Scan# 4360

Delta R.T. 0.03 min

Lab File: VL035537.D

Acq: 3 Sep 2020 19:14

Instrument :

MSVOA_L

ClientSampled :

IA-3

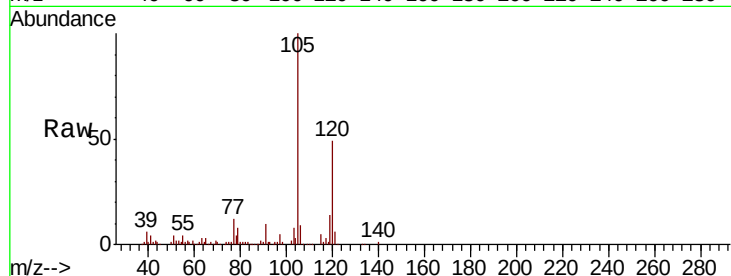
Tot Ion:119 Resp: 36255

Ion Ratio Lower Upper

119 100

91 91.6 58.6 87.8#

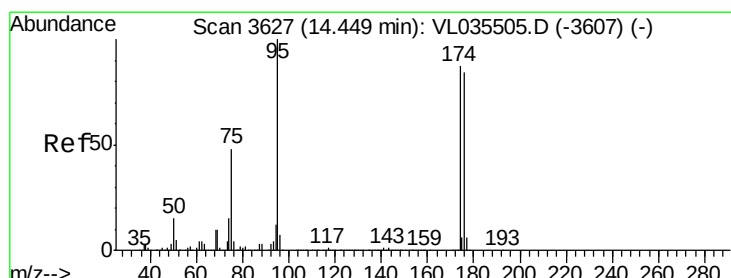
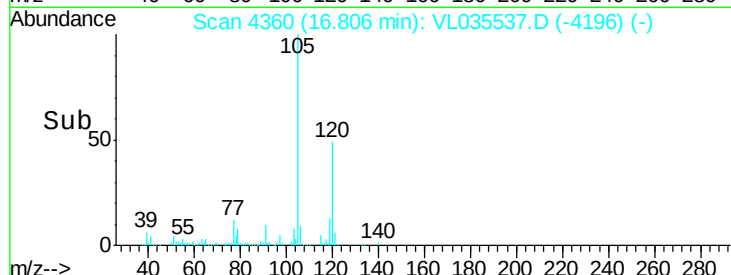
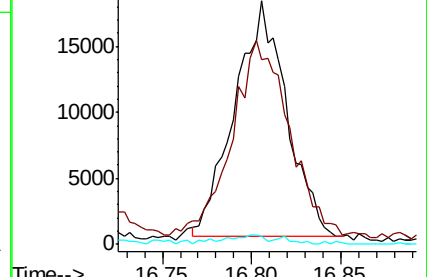
134 4.3 18.9 28.3#



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: 10.359 ppbv

RT: 14.46 min Scan# 3630

Delta R.T. 0.01 min

Lab File: VL035537.D

Acq: 3 Sep 2020 19:14

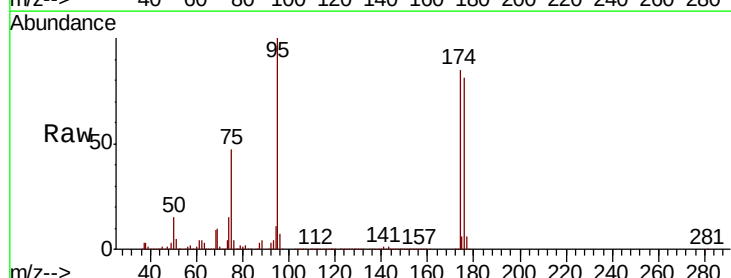
Tgt Ion: 95 Resp: 3237810

Ion Ratio Lower Upper

95 100

174 84.6 69.6 104.4

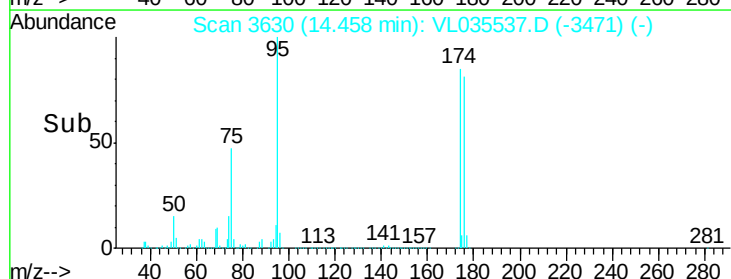
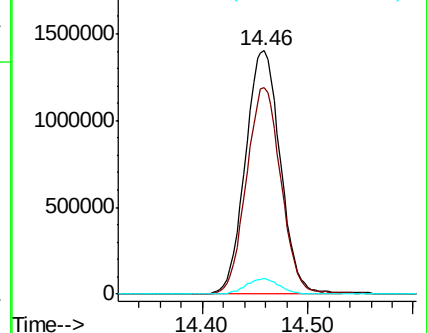
175 6.1 5.1 7.7

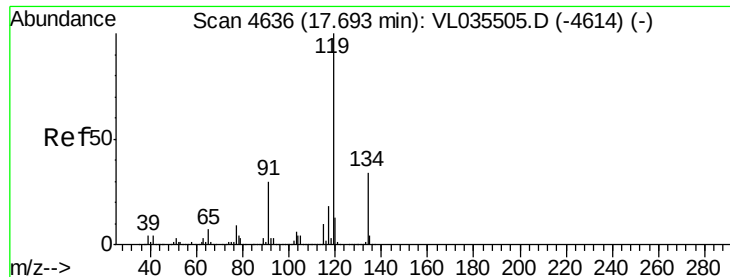


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

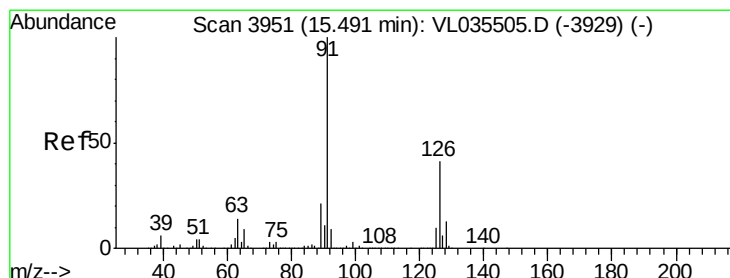
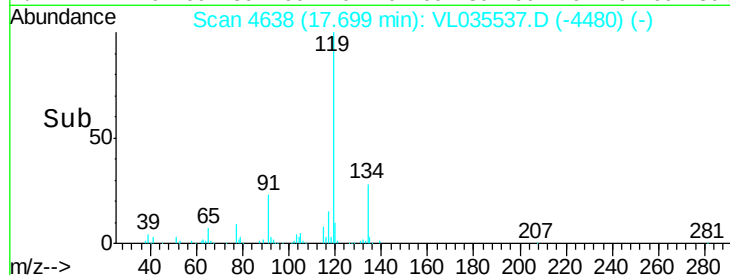
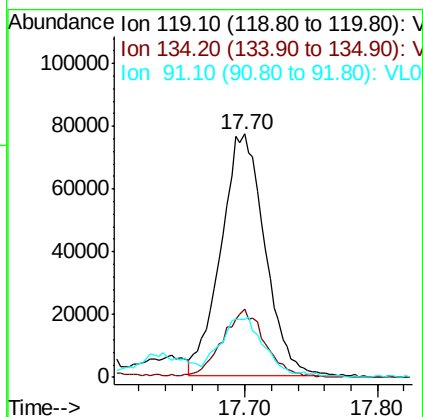
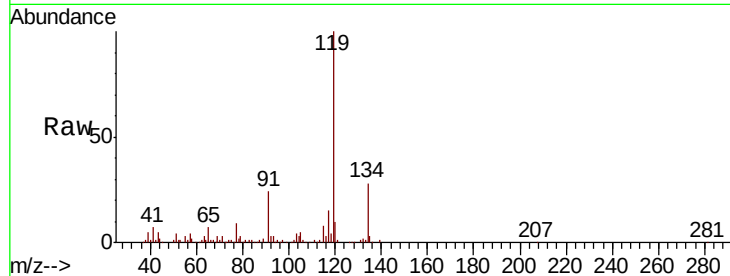




#69
 p-Isopropyltoluene
 Concen: 0.268 ppbv
 RT: 17.70 min Scan# 4638
 Delta R.T. 0.01 min
 Lab File: VL035537.D
 Acq: 3 Sep 2020 19:14

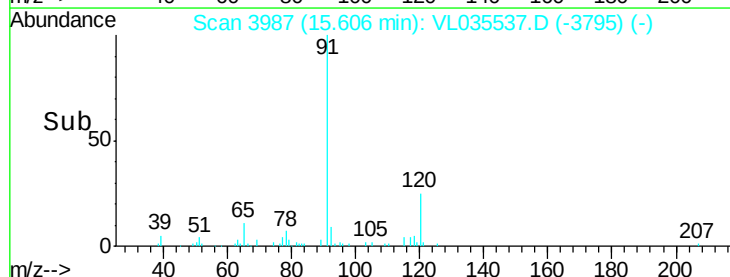
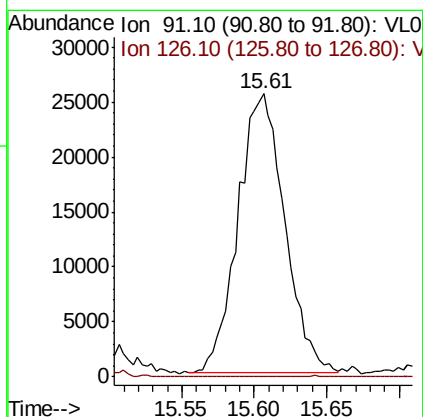
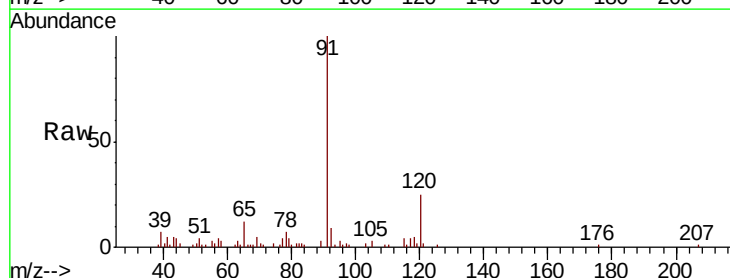
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-3

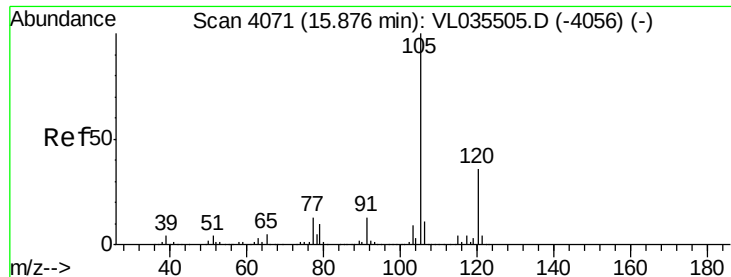
Tot Ion:119 Resp: 178582
 Ion Ratio Lower Upper
 119 100
 134 27.4 25.0 37.4
 91 25.5 22.3 33.5



#71
 2-Chlorotoluene
 Concen: 0.128 ppbv
 RT: 15.61 min Scan# 3987
 Delta R.T. 0.12 min
 Lab File: VL035537.D
 Acq: 3 Sep 2020 19:14

Tgt Ion: 91 Resp: 57026
 Ion Ratio Lower Upper
 91 100
 126 1.9 15.6 62.6#





#72

4-Ethyltoluene

Concen: 0.161 ppbv

RT: 15.88 min Scan# 4073

Delta R.T. 0.01 min

Lab File: VL035537.D

Acq: 3 Sep 2020 19:14

Instrument :

MSVOA_L

ClientSampleId :

IA-3

Tot Ion:105 Resp: 78138

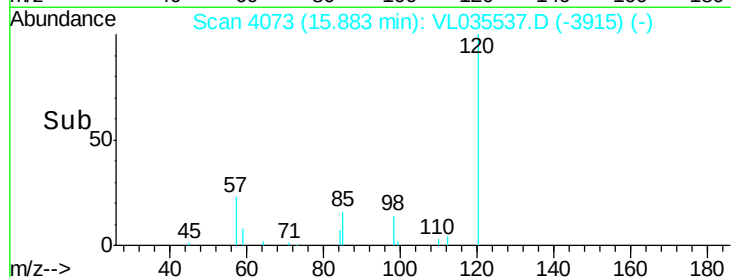
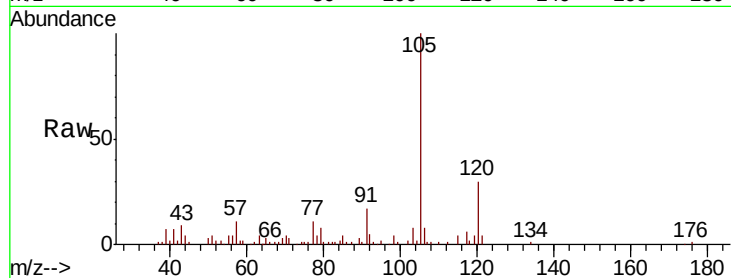
Ion Ratio Lower Upper

105 100

120 30.8 27.4 41.2

91 22.0 9.7 14.5#

77 15.3 9.6 14.4#



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

Time-->

15.85 15.90 15.95

15.88

15.85 15.90 15.95

15.85 15.90 15.95

15.85 15.90 15.95

15.85 15.90 15.95

15.85 15.90 15.95

15.85 15.90 15.95

15.85 15.90 15.95

15.85 15.90 15.95

15.85 15.90 15.95

15.85 15.90 15.95

15.85 15.90 15.95

15.85 15.90 15.95

15.85 15.90 15.95

15.85 15.90 15.95

15.85 15.90 15.95

15.85 15.90 15.95

15.85 15.90 15.95

15.85 15.90 15.95

15.85 15.90 15.95

15.85 15.90 15.95

15.85 15.90 15.95

15.85 15.90 15.95

15.85 15.90 15.95

15.85 15.90 15.95

15.85 15.90 15.95

15.85 15.90 15.95

15.85 15.90 15.95

15.85 15.90 15.95

15.85 15.90 15.95

15.85 15.90 15.95

15.85 15.90 15.95

15.85 15.90 15.95

15.85 15.90 15.95

15.85 15.90 15.95

15.85 15.90 15.95

15.85 15.90 15.95

15.85 15.90 15.95

15.85 15.90 15.95

15.85 15.90 15.95

15.85 15.90 15.95

15.85 15.90 15.95

15.85 15.90 15.95

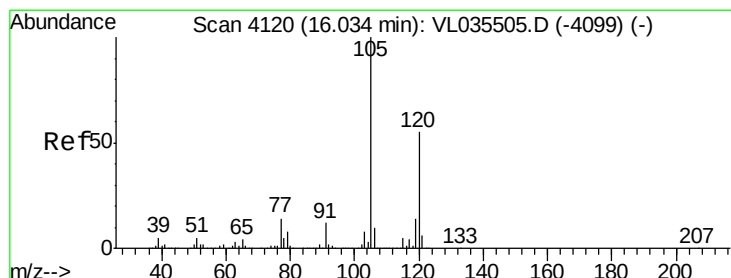
15.85 15.90 15.95

15.85 15.90 15.95

15.85 15.90 15.95

15.85 15.90 15.95

15.85 15.90 15.95



#73

1,3,5-Trimethylbenzene

Concen: 0.194 ppbv

RT: 16.04 min Scan# 4122

Delta R.T. 0.01 min

Lab File: VL035537.D

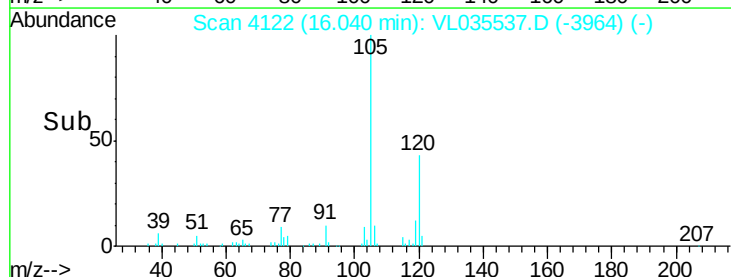
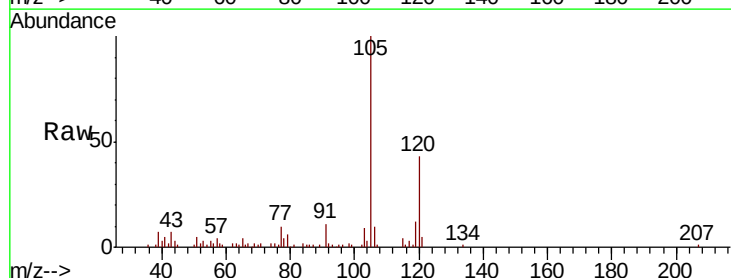
Acq: 3 Sep 2020 19:14

Tgt Ion:105 Resp: 87321

Ion Ratio Lower Upper

105 100

120 42.8 44.2 66.2#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Time-->

15.95 16.00 16.05 16.10

16.04

15.95 16.00 16.05 16.10

15.95 16.00 16.05 16.10

15.95 16.00 16.05 16.10

15.95 16.00 16.05 16.10

15.95 16.00 16.05 16.10

15.95 16.00 16.05 16.10

15.95 16.00 16.05 16.10

15.95 16.00 16.05 16.10

15.95 16.00 16.05 16.10

15.95 16.00 16.05 16.10

15.95 16.00 16.05 16.10

15.95 16.00 16.05 16.10

15.95 16.00 16.05 16.10

15.95 16.00 16.05 16.10

15.95 16.00 16.05 16.10

15.95 16.00 16.05 16.10

15.95 16.00 16.05 16.10

15.95 16.00 16.05 16.10

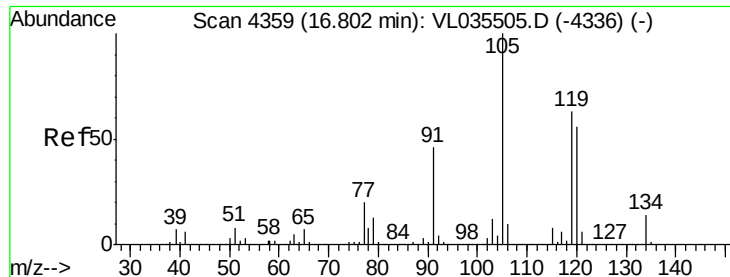
15.95 16.00 16.05 16.10

15.95 16.00 16.05 16.10

15.95 16.00 16.05 16.10

15.95 16.00 16.05 16.10

15.95 16.00 16.05 16.10



#74

1,2,4-Trimethylbenzene

Concen: 0.624 ppbv

RT: 16.81 min Scan# 4361

Delta R.T. 0.01 min

Lab File: VL035537.D

Acq: 3 Sep 2020 19:14

Instrument :

MSVOA_L

ClientSampleId :

IA-3

Tot Ion:105 Resp: 308003

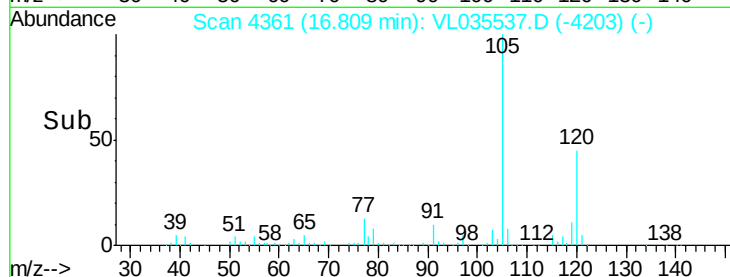
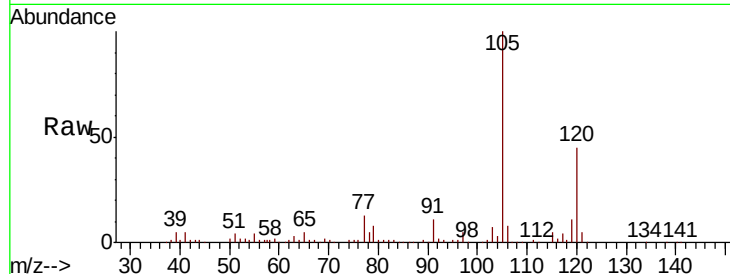
Ion Ratio Lower Upper

105 100

120 45.6 44.4 66.6

91 10.0 37.1 55.7#

77 12.7 16.0 24.0#

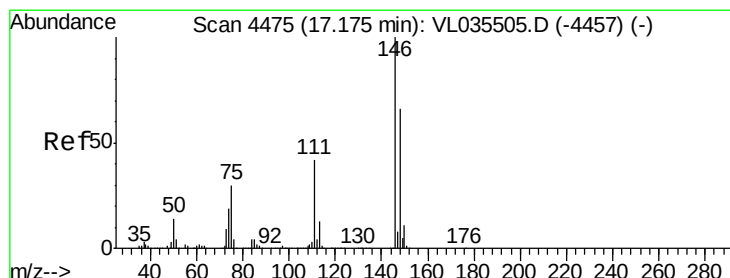
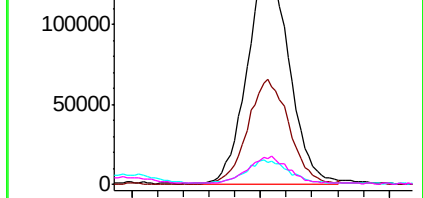


Abundance Ion 105.10 (104.80 to 105.80): V

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



#76

1,4-Dichlorobenzene

Concen: 0.122 ppbv

RT: 17.18 min Scan# 4478

Delta R.T. 0.01 min

Lab File: VL035537.D

Acq: 3 Sep 2020 19:14

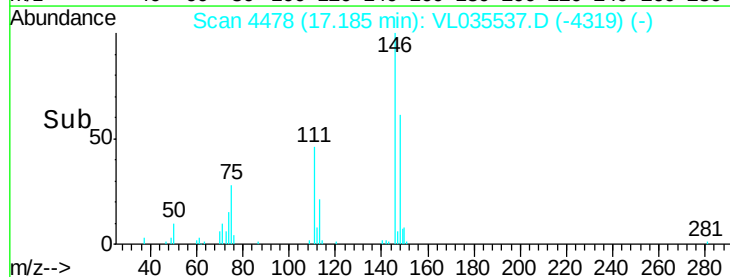
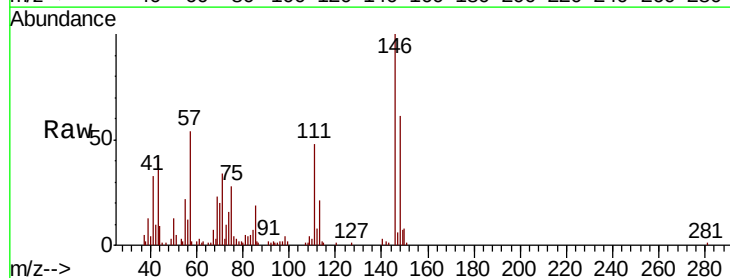
Tgt Ion:146 Resp: 44026

Ion Ratio Lower Upper

146 100

111 49.5 20.0 60.0

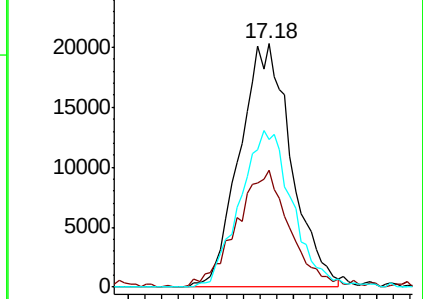
148 65.6 33.2 99.6

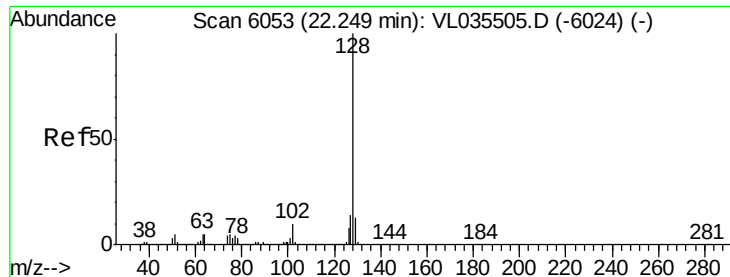


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#79

Naphthalene

Concen: 3.356 ppbv

RT: 22.26 min Scan# 6057

Delta R.T. 0.01 min

Lab File: VL035537.D

Acq: 3 Sep 2020 19:14

Instrument :

MSVOA_L

ClientSampleId :

IA-3

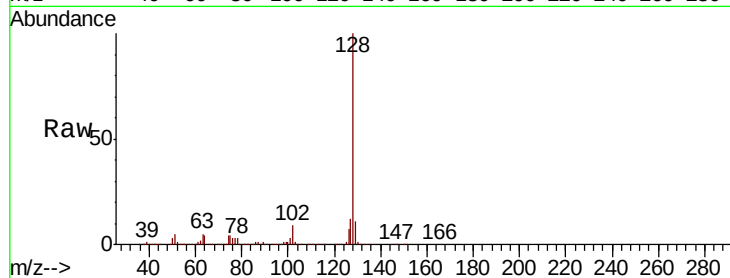
Tot Ion:128 Resp: 1836899

Ion Ratio Lower Upper

128 100

127 12.4 11.4 17.2

129 11.4 10.5 15.7



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

22.26

800000

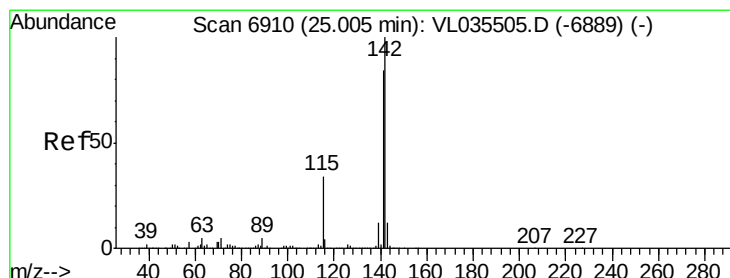
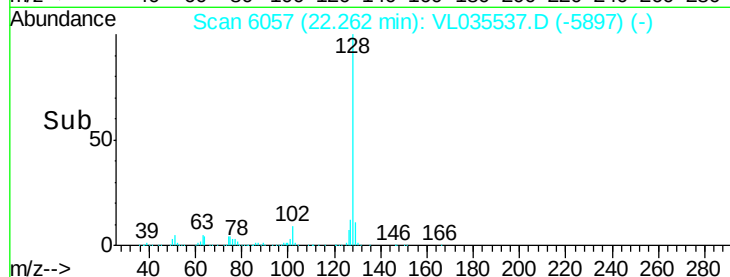
600000

400000

200000

0

Time-->



#80

Naphthalene, 2-methyl-

Concen: 0.829 ppbv

RT: 25.02 min Scan# 6914

Delta R.T. 0.01 min

Lab File: VL035537.D

Acq: 3 Sep 2020 19:14

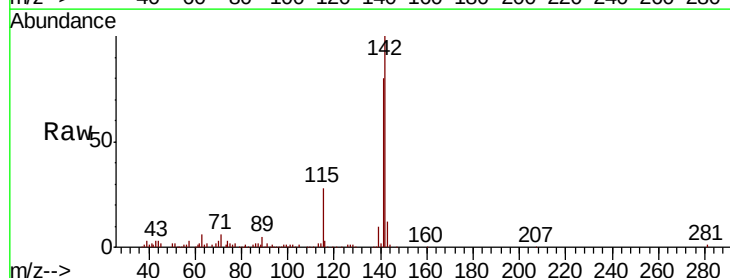
Tgt Ion:142 Resp: 154814

Ion Ratio Lower Upper

142 100

141 84.0 67.6 101.4

115 32.4 25.8 38.8



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

120000

100000

80000

60000

40000

20000

0

Time-->

