

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090320\
 Data File : VL035540.D
 Acq On : 3 Sep 2020 21:12
 Operator : SY/AP
 Sample : L3898-04
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-4

Quant Time: Sep 04 06:48:02 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	5.70	49	1008382	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.21	114	4272600	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.12	117	4271943	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	3155975	10.40	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	66526	0.381	ppbv	97
3) Chlorodifluoromethane	2.97	51	158970	1.425	ppbv #	74
4) Chloromethane	3.15	50	31964	0.535	ppbv	94
9) Propene	3.03	41	316688	7.366	ppbv #	63
10) Heptane	8.15	43	30791	0.267	ppbv	98
11) Trichlorofluoromethane	3.96	101	299252	1.174	ppbv	92
12) 1,1,2-Trichlorotrifluoroet	4.50	101	16012	0.083	ppbv	99
13) Ethanol	3.63	45	3249498	304.825	ppbv	99
15) Acetone	3.87	43	15822439	142.269	ppbv #	51
16) 1,3-Butadiene	3.31	39	12792	0.309	ppbv #	24
17) tert-Butyl alcohol	4.34	59	1019497	7.531	ppbv #	79
19) Isopropyl Alcohol	4.00	45	337270	5.083	ppbv #	93
20) Methylene Chloride	4.38	84	645364	7.791	ppbv	97
21) Allyl Chloride	4.38	41	5587	0.107	ppbv #	1
23) Vinyl Acetate	5.10	43	91760	0.643	ppbv #	92
25) Ethyl Acetate	5.71	43	271138	1.380	ppbv #	83
26) Hexane	5.71	57	358646	3.222	ppbv #	56
29) Chloroform	5.79	83	19263	0.085	ppbv	87
30) Cyclohexane	7.16	84	14023	0.118	ppbv #	1
34) 2-Butanone	5.28	43	201310	1.588	ppbv	98
35) Carbon Tetrachloride	7.05	117	7797	0.036	ppbv	89
36) Benzene	6.93	78	104109	0.376	ppbv	95
37) 1,2-Dichloroethane	6.35	62	9176	0.070	ppbv #	88
39) 1,2-Dichloropropane	7.21	63	781944	8.369	ppbv #	32
41) Tetrahydrofuran	6.09	42	10080	0.150	ppbv	92
44) 2,2,4-Trimethylpentane	7.90	57	161637	0.444	ppbv #	79
50) 4-Methyl-2-Pentanone	8.79	43	41485	0.226	ppbv	97
51) 2-Hexanone	10.09	43	8184	0.054	ppbv #	19
52) Tetrachloroethene	11.26	164	22710	0.141	ppbv	89
53) Toluene	9.84	91	2565460	7.376	ppbv	99
58) Ethyl Benzene	12.75	91	125927	0.286	ppbv #	84
59) m/p-Xylene	13.00	91	427113	1.160	ppbv	96
60) o-Xylene	13.73	91	154816	0.418	ppbv	98
62) Isopropylbenzene	14.71	105	17934	0.030	ppbv	93
65) tert-Butylbenzene	16.80	119	27884	0.050	ppbv #	24
69) p-Isopropyltoluene	17.70	119	115825	0.179	ppbv	99
71) 2-Chlorotoluene	15.61	91	41104	0.095	ppbv #	40
72) 4-Ethyltoluene	15.88	105	49488	0.105	ppbv #	88
73) 1,3,5-Trimethylbenzene	16.05	105	19837	0.046	ppbv	87
74) 1,2,4-Trimethylbenzene	16.80	105	208339	0.435	ppbv #	69
76) 1,4-Dichlorobenzene	17.18	146	33197	0.095	ppbv	91

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090320\
Data File : VL035540.D
Acq On : 3 Sep 2020 21:12
Operator : SY/AP
Sample : L3898-04
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-4

Quant Time: Sep 04 06:48:02 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

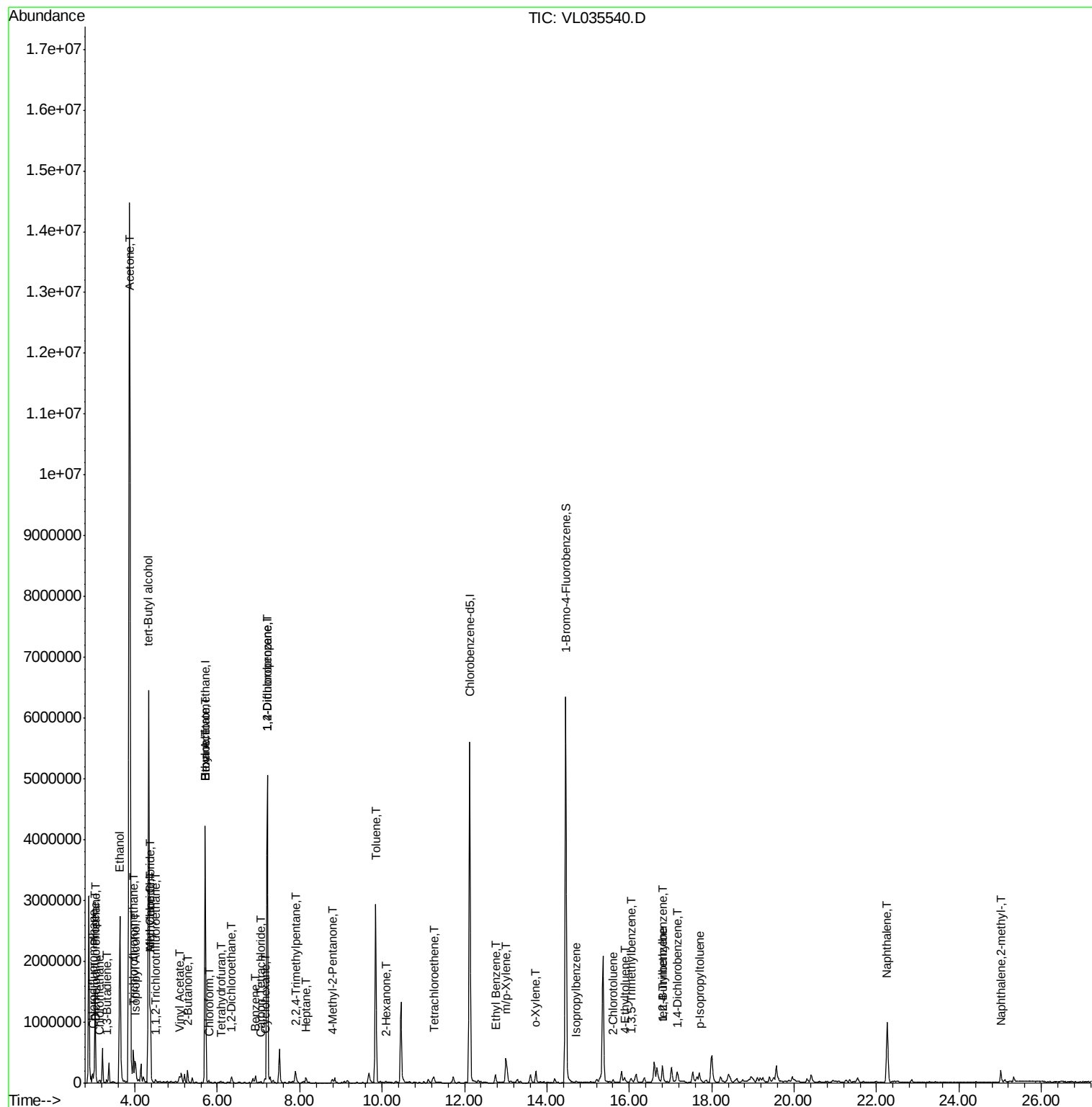
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
79) Naphthalene	22.26	128	1456868	2.743	ppbv #	93
80) Naphthalene,2-methyl-	25.02	142	110966	0.612	ppbv	98

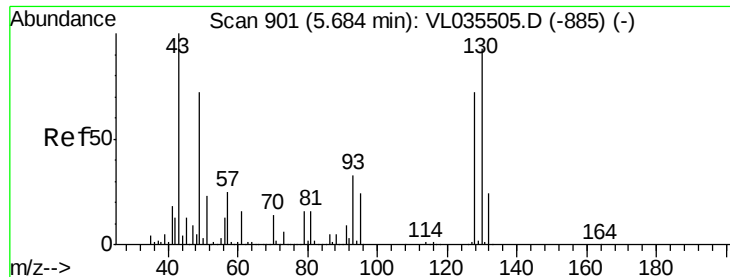
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090320\
Data File : VL035540.D
Acq On : 3 Sep 2020 21:12
Operator : SY/AP
Sample : L3898-04
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-4

Quant Time: Sep 04 06:48:02 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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.70 min Scan# 907

Delta R.T. 0.02 min

Lab File: VL035540.D

Acq: 3 Sep 2020 21:12

Instrument :

MSVOA_L

ClientSampled :

IA-4

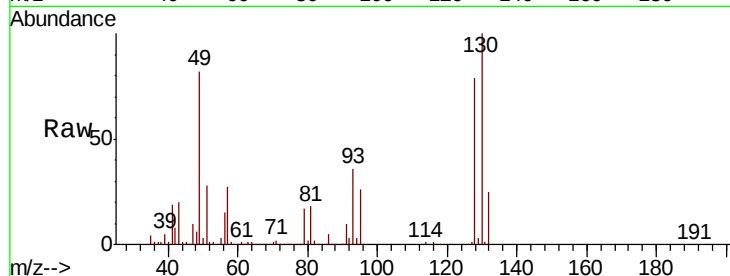
Tot Ion: 49 Resp: 1008382

Ion Ratio Lower Upper

49 100

128 96.4 50.0 150.1

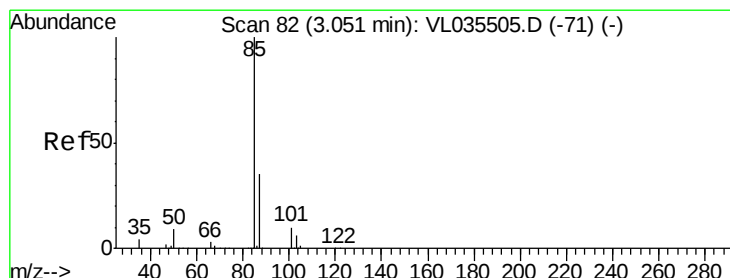
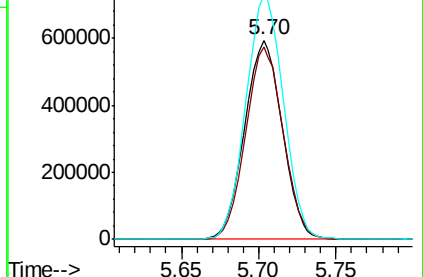
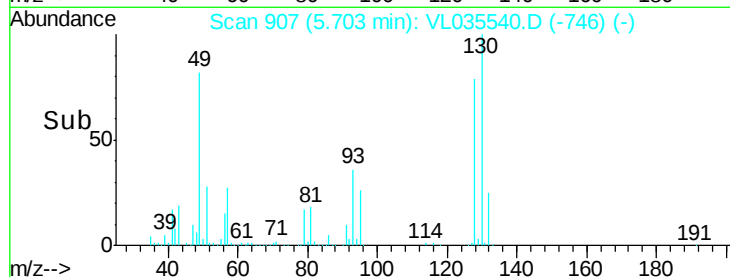
130 123.3 64.4 193.2



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: 0.381 ppbv

RT: 3.06 min Scan# 84

Delta R.T. 0.01 min

Lab File: VL035540.D

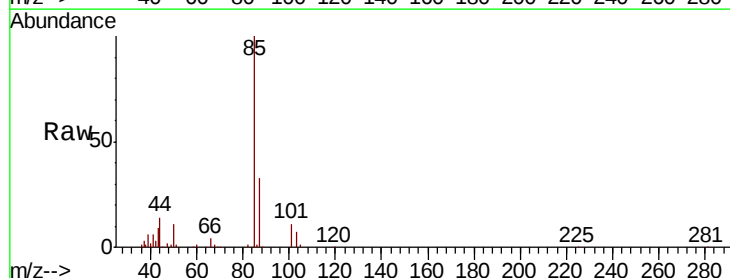
Acq: 3 Sep 2020 21:12

Tgt Ion: 85 Resp: 66526

Ion Ratio Lower Upper

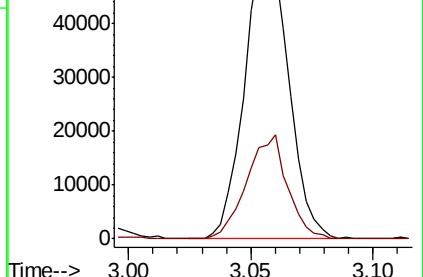
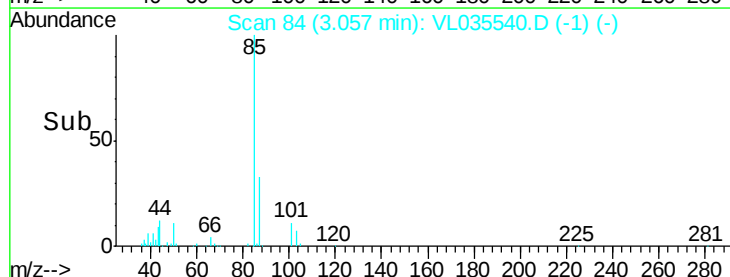
85 100

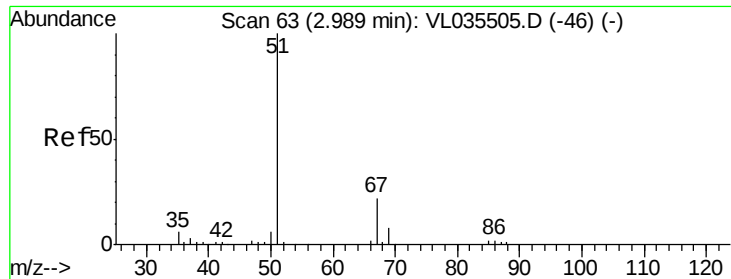
87 33.3 28.0 42.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.425 ppbv

RT: 2.97 min Scan# 58

Delta R.T. -0.02 min

Lab File: VL035540.D

Acq: 3 Sep 2020 21:12

Instrument :

MSVOA_L

ClientSampleId :

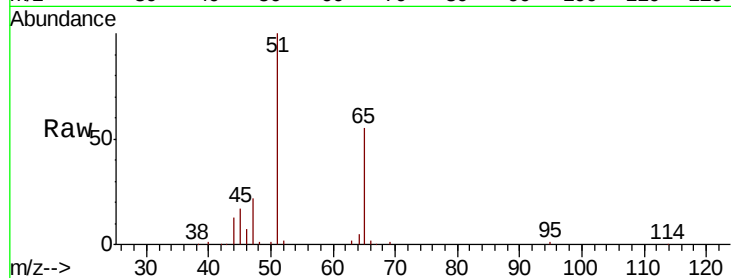
IA-4

Tot Ion: 51 Resp: 158970

Ion Ratio Lower Upper

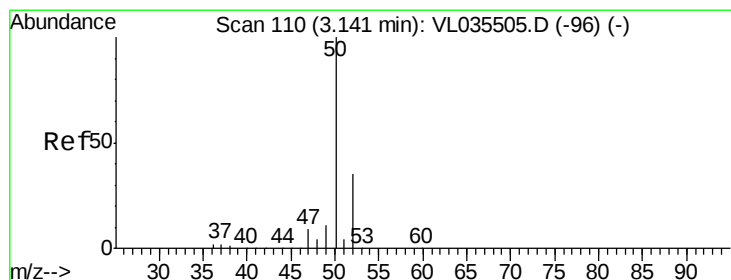
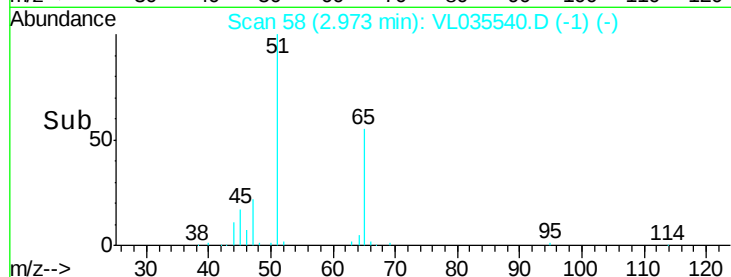
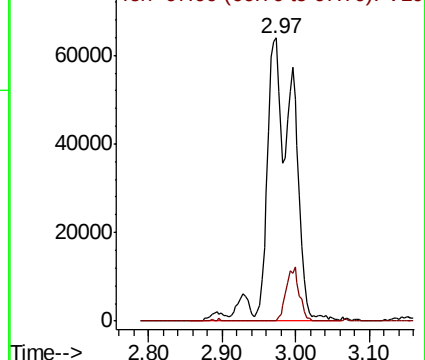
51 100

67 9.6 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: 0.535 ppbv

RT: 3.15 min Scan# 112

Delta R.T. 0.01 min

Lab File: VL035540.D

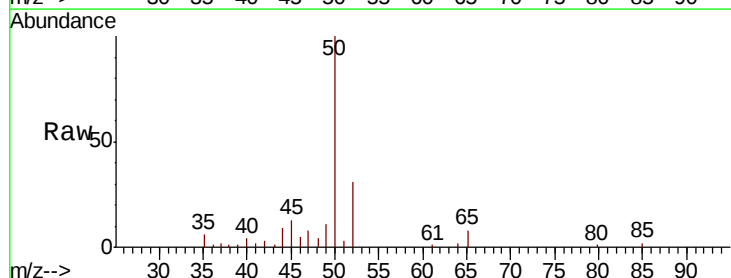
Acq: 3 Sep 2020 21:12

Tgt Ion: 50 Resp: 31964

Ion Ratio Lower Upper

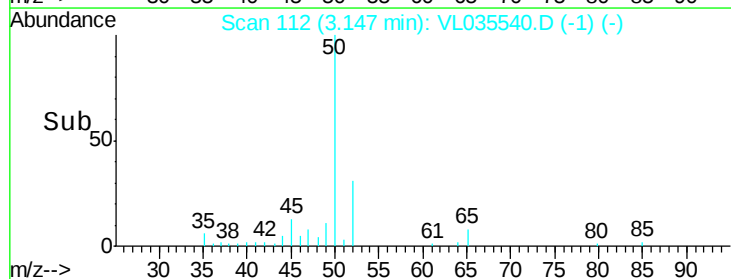
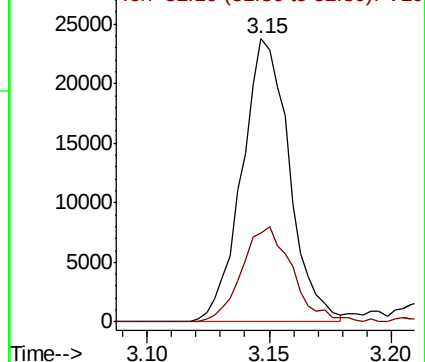
50 100

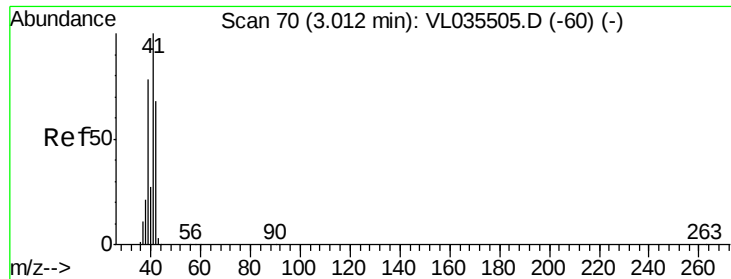
52 31.2 27.7 41.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 7.366 ppbv

RT: 3.03 min Scan# 75

Delta R.T. 0.02 min

Lab File: VL035540.D

Acq: 3 Sep 2020 21:12

Instrument :

MSVOA_L

ClientSampleId :

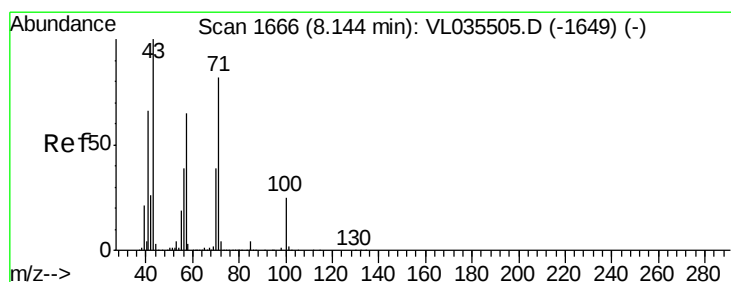
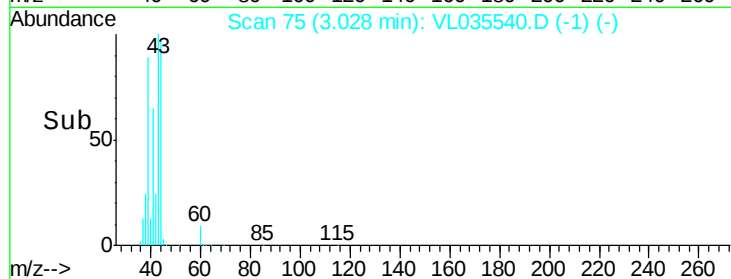
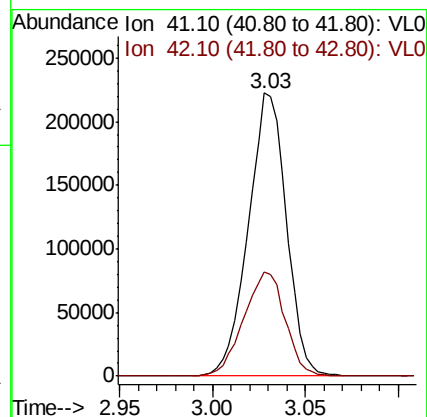
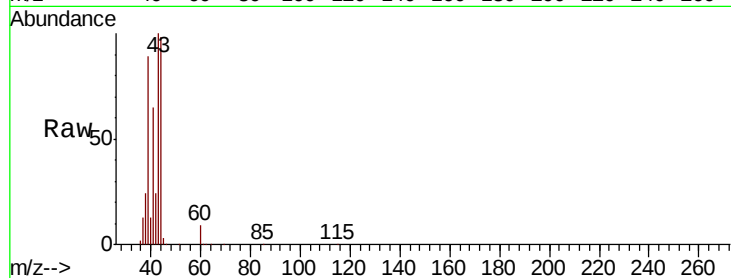
IA-4

Tot Ion: 41 Resp: 316688

Ion Ratio Lower Upper

41 100

42 40.3 56.3 84.5#



#10

Heptane

Concen: 0.267 ppbv

RT: 8.15 min Scan# 1669

Delta R.T. 0.01 min

Lab File: VL035540.D

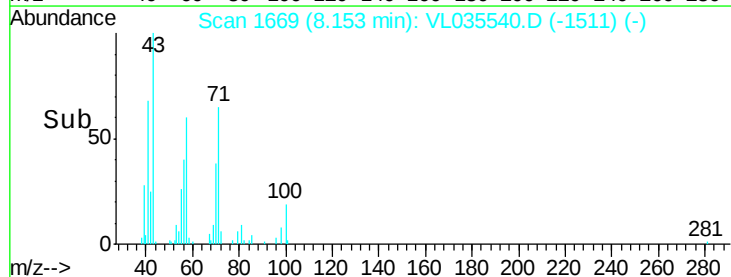
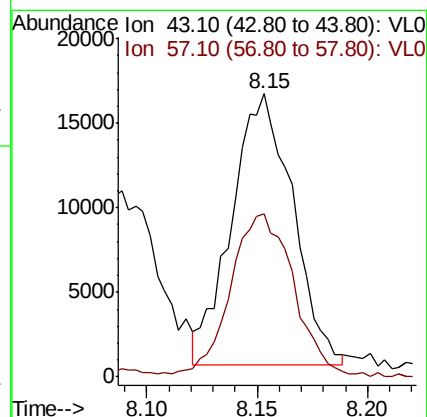
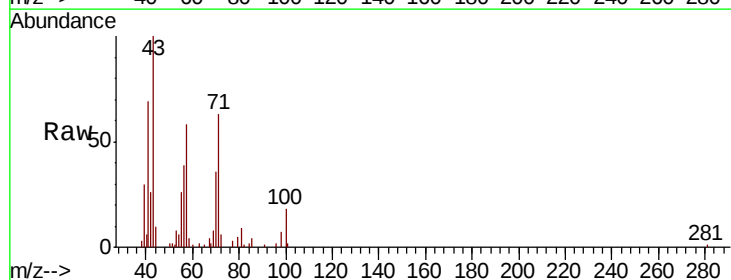
Acq: 3 Sep 2020 21:12

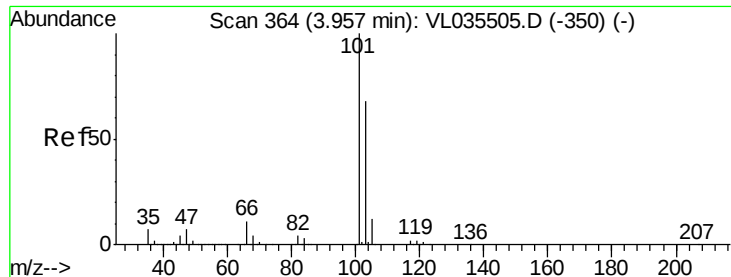
Tgt Ion: 43 Resp: 30791

Ion Ratio Lower Upper

43 100

57 62.7 51.4 77.0





#11

Trichlorofluoromethane

Concen: 1.174 ppbv

RT: 3.96 min Scan# 366

Delta R.T. 0.01 min

Lab File: VL035540.D

Acq: 3 Sep 2020 21:12

Instrument :

MSVOA_L

ClientSampleId :

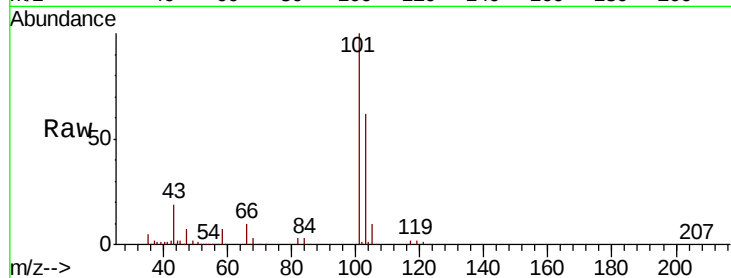
IA-4

Tot Ion:101 Resp: 299252

Ion Ratio Lower Upper

101 100

103 61.8 54.5 81.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

250000

200000

150000

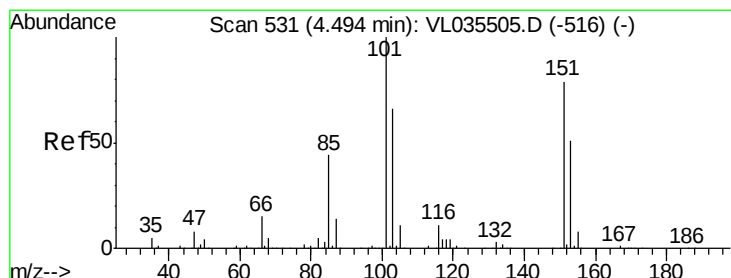
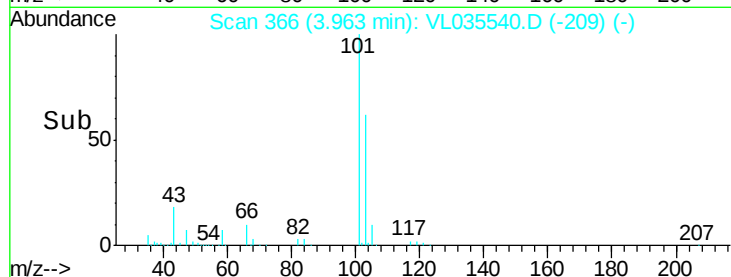
100000

50000

0

3.90 3.95 4.00

Time-->



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.083 ppbv

RT: 4.50 min Scan# 533

Delta R.T. 0.01 min

Lab File: VL035540.D

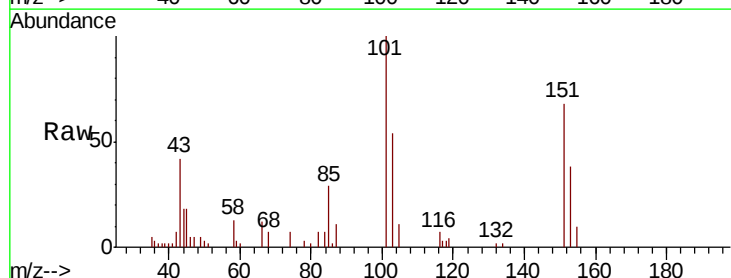
Acq: 3 Sep 2020 21:12

Tgt Ion:101 Resp: 16012

Ion Ratio Lower Upper

101 100

151 80.7 63.5 95.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

12000

10000

8000

6000

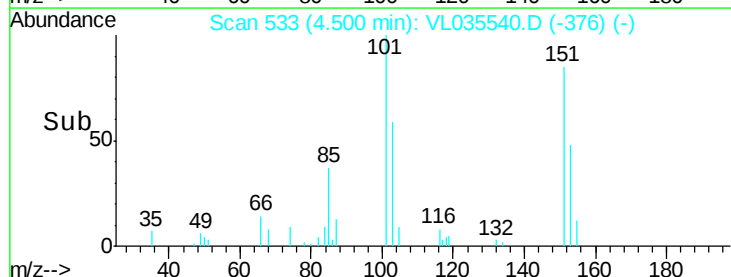
4000

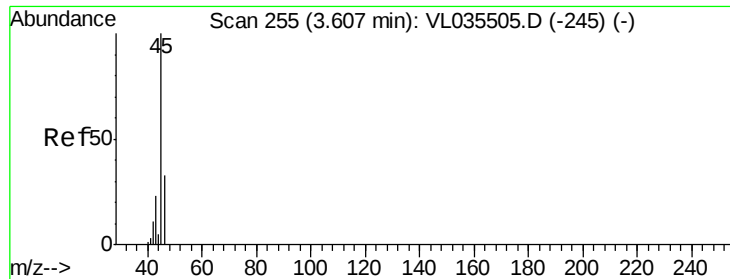
2000

0

4.45 4.50 4.55

Time-->

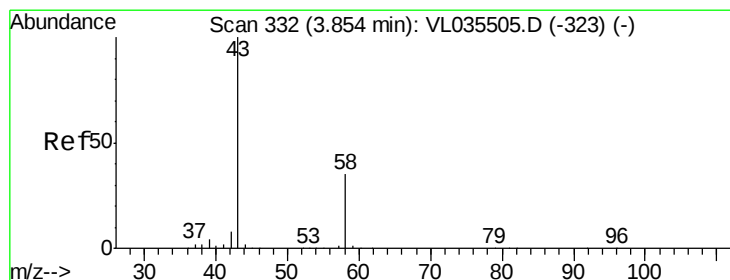
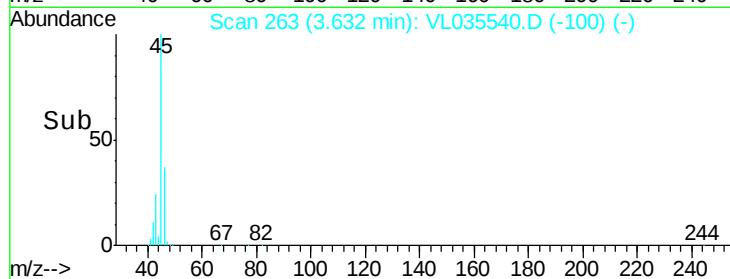
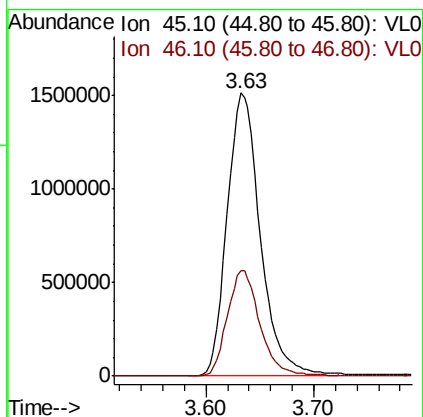
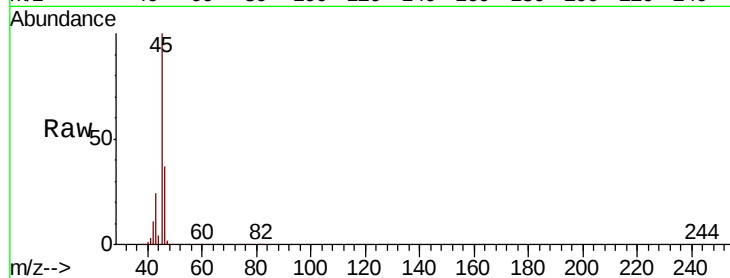




#13
Ethanol
Concen: 304.825 ppbv
RT: 3.63 min Scan# 263
Delta R.T. 0.03 min
Lab File: VL035540.D
Acq: 3 Sep 2020 21:12

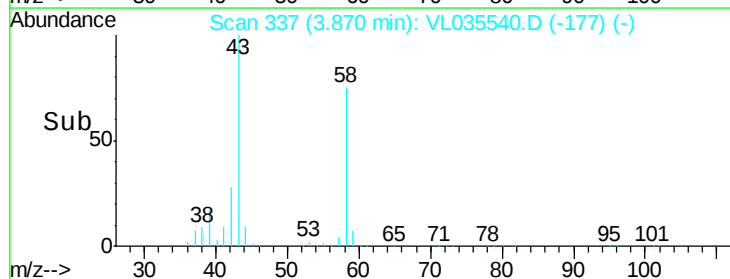
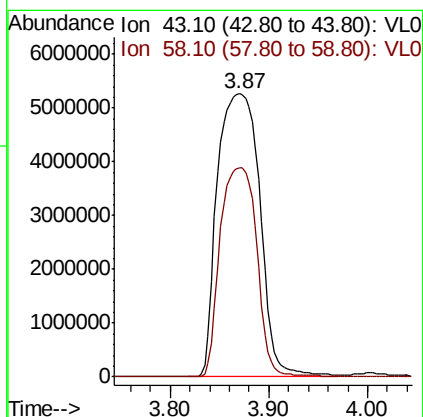
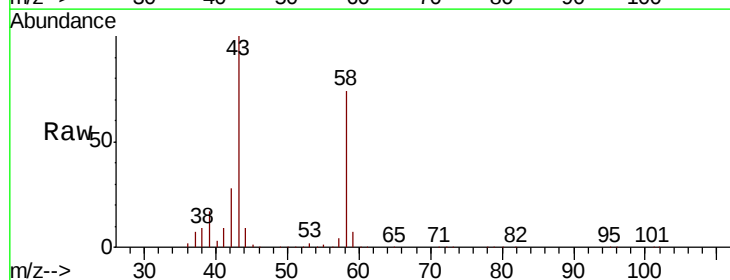
Instrument :
MSVOA_L
ClientSampleId :
IA-4

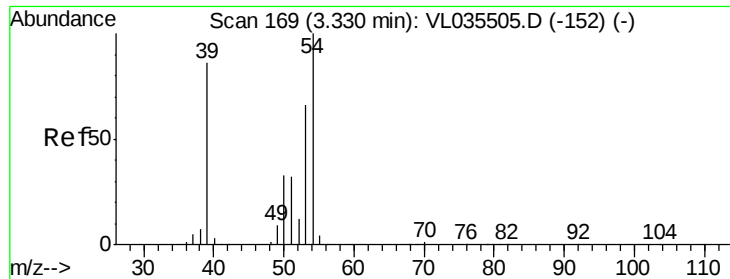
Tot Ion: 45 Resp: 3249498
Ion Ratio Lower Upper
45 100
46 37.2 15.2 60.6



#15
Acetone
Concen: 142.269 ppbv
RT: 3.87 min Scan# 337
Delta R.T. 0.02 min
Lab File: VL035540.D
Acq: 3 Sep 2020 21:12

Tgt Ion: 43 Resp: 15822439
Ion Ratio Lower Upper
43 100
58 63.9 28.4 42.6#

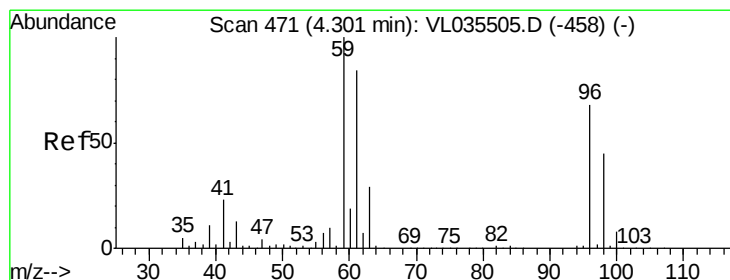
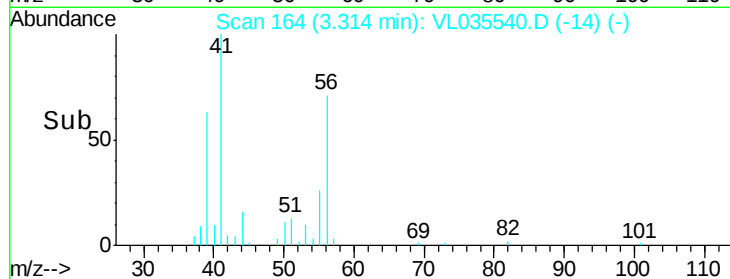
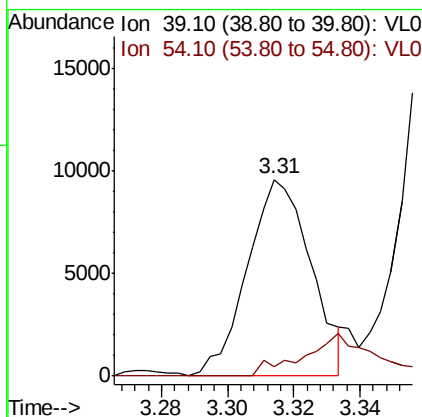
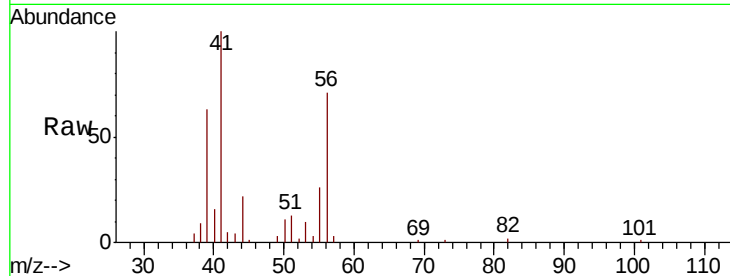




#16
 1,3-Butadiene
 Concen: 0.309 ppbv
 RT: 3.31 min Scan# 164
 Delta R.T. -0.02 min
 Lab File: VL035540.D
 Acq: 3 Sep 2020 21:12

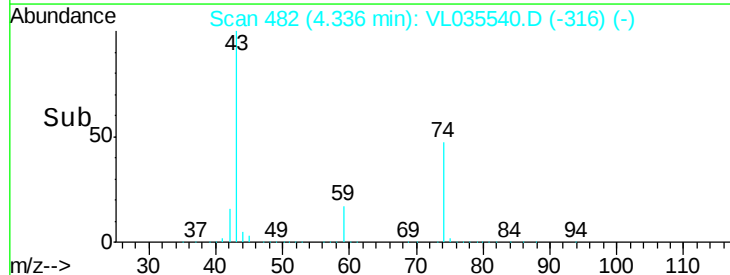
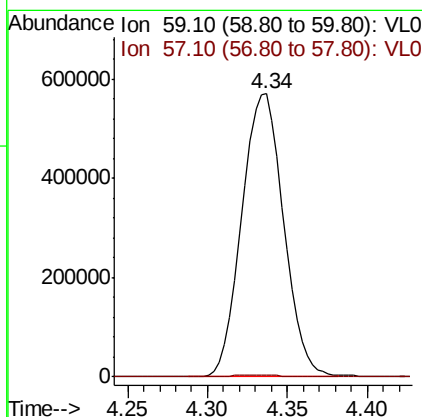
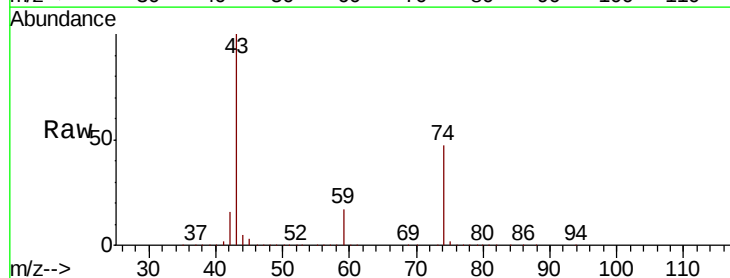
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-4

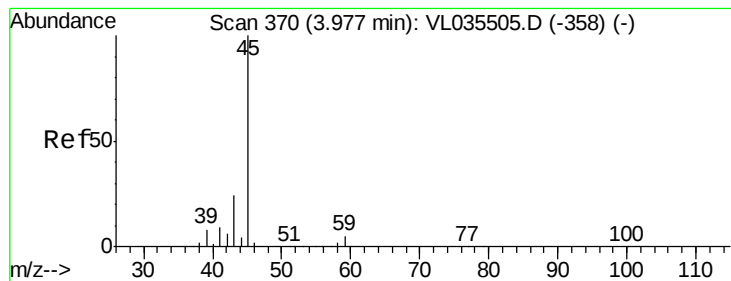
Tot Ion: 39 Resp: 12792
 Ion Ratio Lower Upper
 39 100
 54 30.4 88.4 132.6#



#17
 tert-Butyl alcohol
 Concen: 7.531 ppbv
 RT: 4.34 min Scan# 482
 Delta R.T. 0.04 min
 Lab File: VL035540.D
 Acq: 3 Sep 2020 21:12

Tgt Ion: 59 Resp: 1019497
 Ion Ratio Lower Upper
 59 100
 57 2.5 8.4 12.6#





#19

Isopropyl Alcohol

Concen: 5.083 ppbv

RT: 4.00 min Scan# 378

Delta R.T. 0.03 min

Lab File: VL035540.D

Acq: 3 Sep 2020 21:12

Instrument :

MSVOA_L

ClientSampleId :

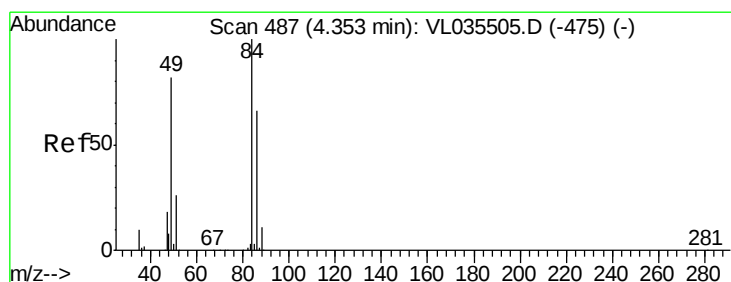
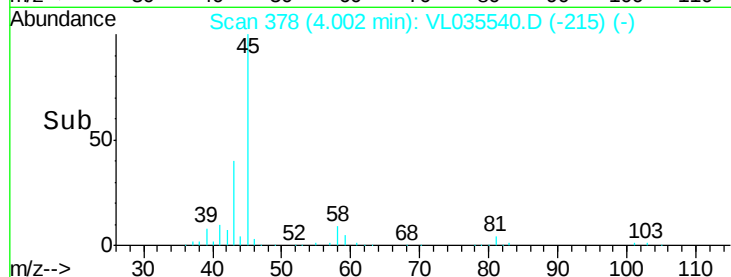
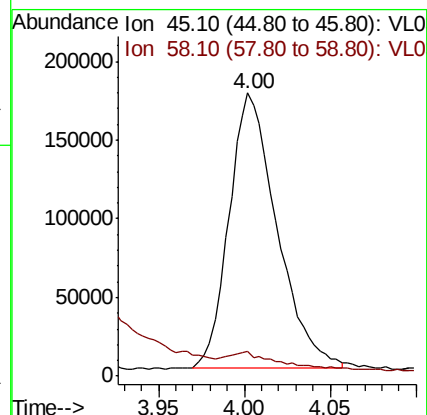
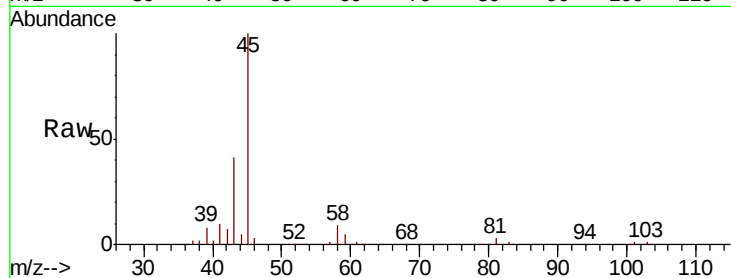
IA-4

Tot Ion: 45 Resp: 337270

Ion Ratio Lower Upper

45 100

58 0.0 2.0 3.0#



#20

Methylene Chloride

Concen: 7.791 ppbv

RT: 4.38 min Scan# 494

Delta R.T. 0.02 min

Lab File: VL035540.D

Acq: 3 Sep 2020 21:12

Tgt Ion: 84 Resp: 645364

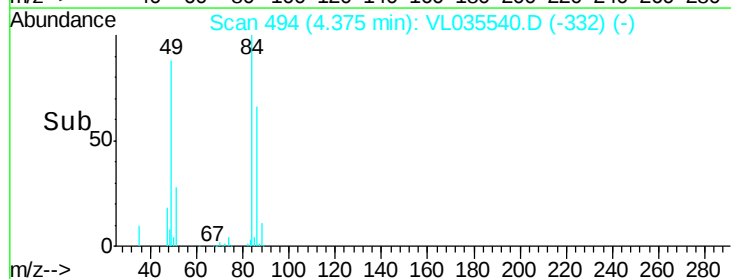
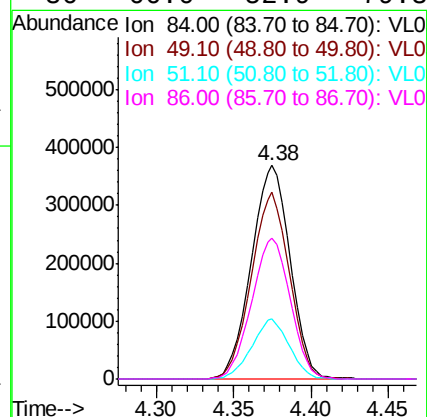
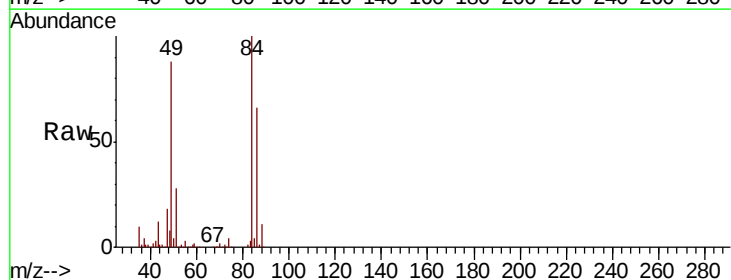
Ion Ratio Lower Upper

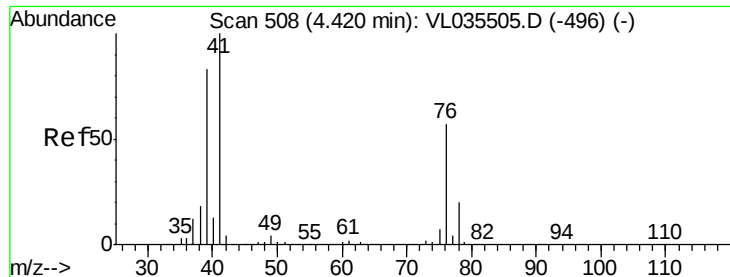
84 100

49 87.6 65.4 98.0

51 27.8 21.5 32.3

86 66.0 52.9 79.3





#21

Allvl Chloride

Concen: 0.107 ppbv

RT: 4.38 min Scan# 497

Delta R.T. -0.04 min

Lab File: VL035540.D

Acq: 3 Sep 2020 21:12

Instrument :

MSVOA_L

ClientSampleId :

IA-4

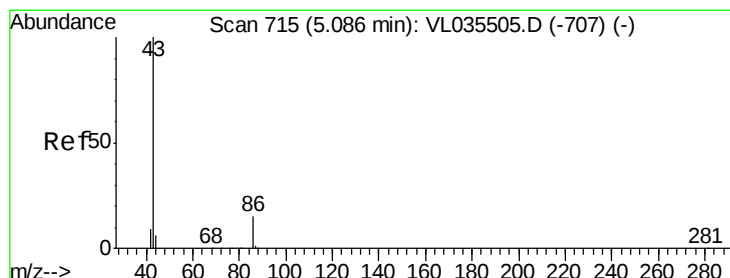
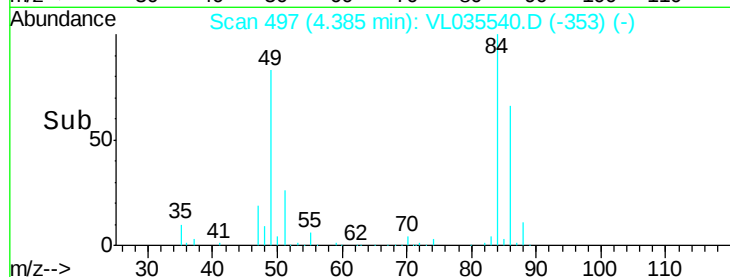
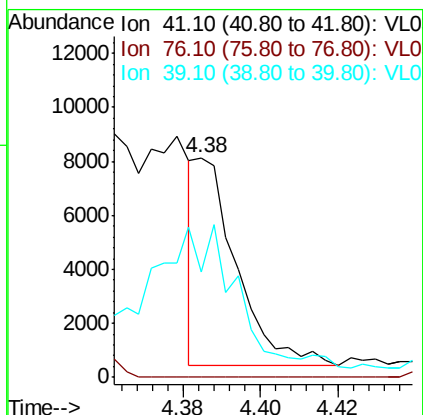
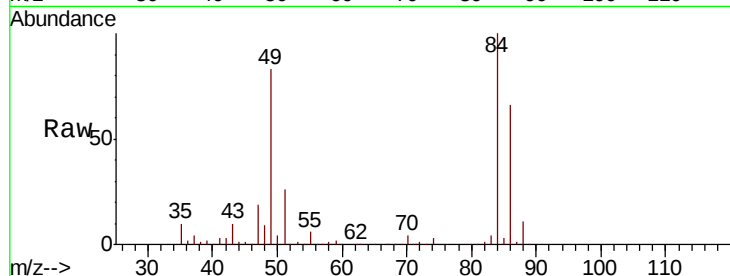
Tot Ion: 41 Resp: 5587

Ion Ratio Lower Upper

41 100

76 0.0 46.2 69.2#

39 190.4 67.8 101.6#



#23

Vinyl Acetate

Concen: 0.643 ppbv

RT: 5.10 min Scan# 719

Delta R.T. 0.01 min

Lab File: VL035540.D

Acq: 3 Sep 2020 21:12

Tgt Ion: 43 Resp: 91760

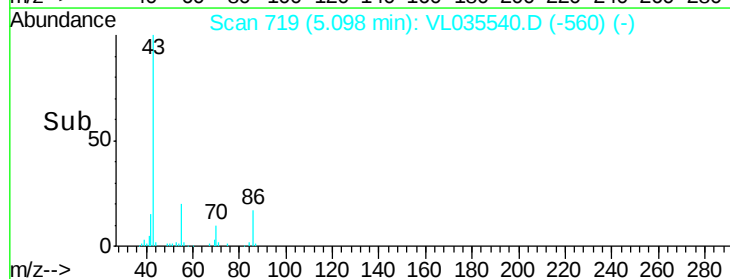
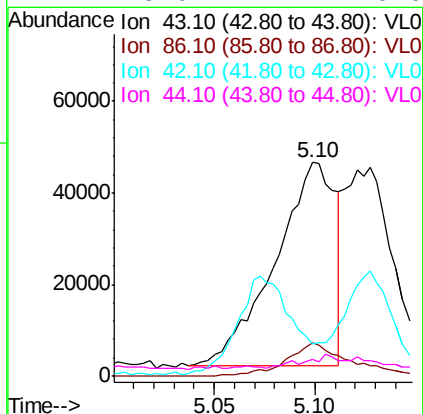
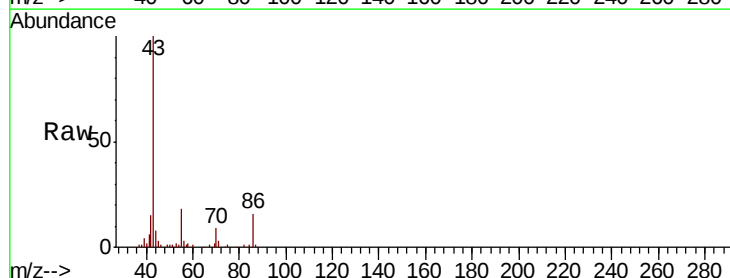
Ion Ratio Lower Upper

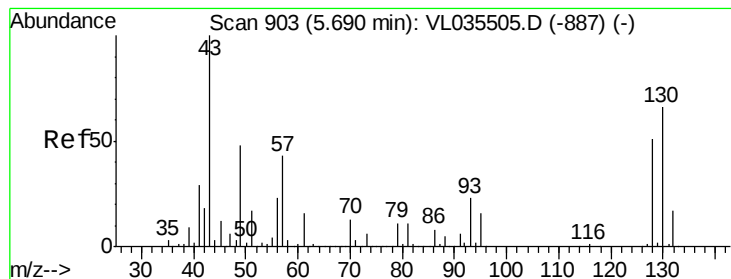
43 100

86 16.5 10.6 16.0#

42 14.3 7.5 11.3#

44 5.0 4.4 6.6





#25

Ethyl Acetate

Concen: 1.380 ppbv

RT: 5.71 min Scan# 909

Delta R.T. 0.02 min

Lab File: VL035540.D

Acq: 3 Sep 2020 21:12

Instrument :

MSVOA_L

ClientSampleID :

IA-4

Tot Ion: 43 Resp: 271138

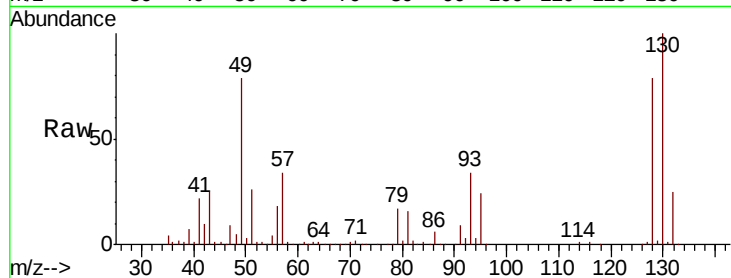
Ion Ratio Lower Upper

43 100

45 5.3 8.4 12.6#

61 5.2 10.6 16.0#

70 6.0 9.4 14.2#



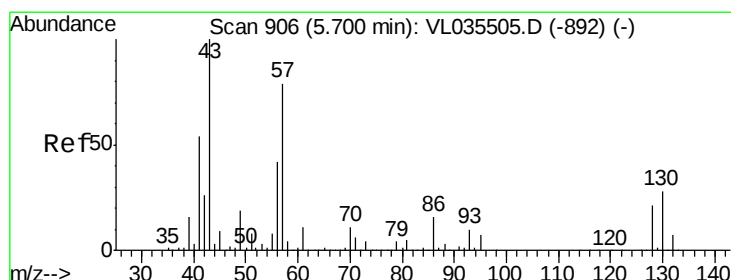
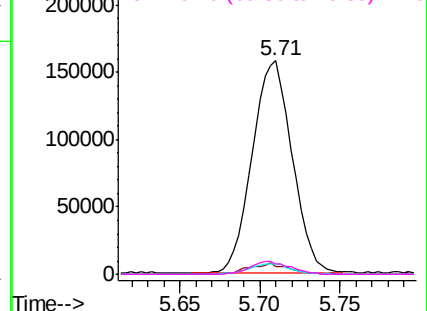
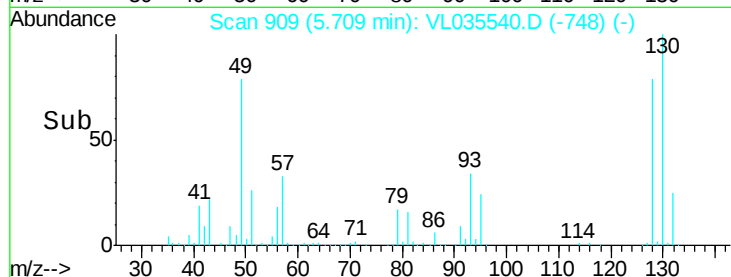
Abundance

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: 3.222 ppbv

RT: 5.71 min Scan# 909

Delta R.T. 0.01 min

Lab File: VL035540.D

Acq: 3 Sep 2020 21:12

Tgt Ion: 57 Resp: 358646

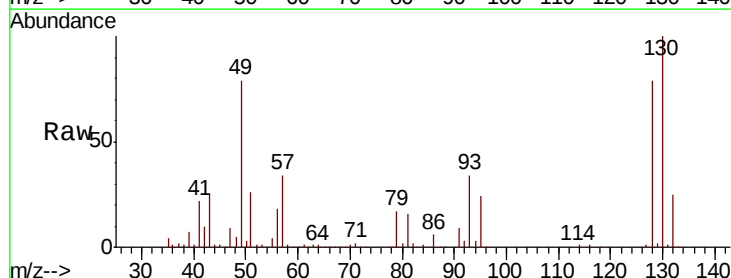
Ion Ratio Lower Upper

57 100

41 69.2 55.9 83.9

43 75.6 141.8 212.8#

56 54.3 41.8 62.8



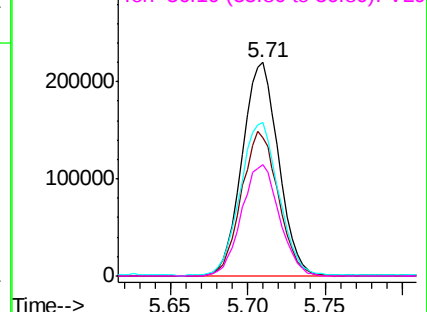
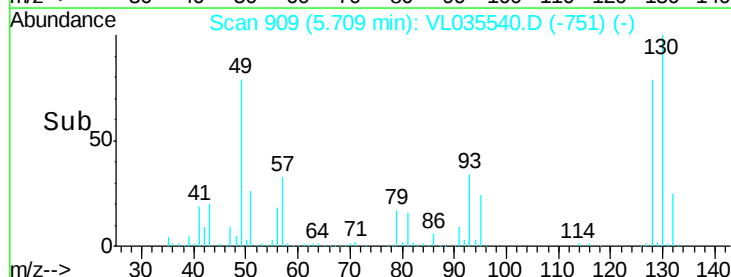
Abundance

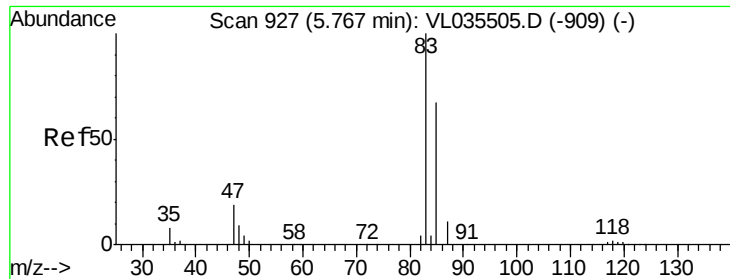
Ion 57.10 (56.80 to 57.80): VL0

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

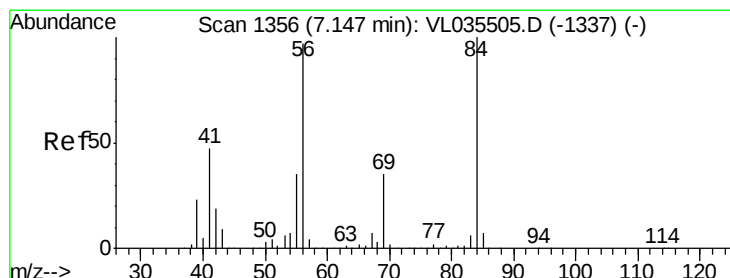
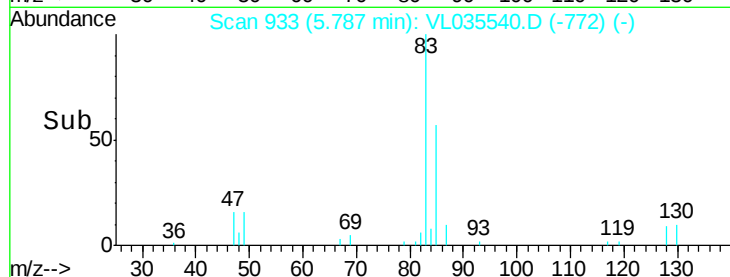
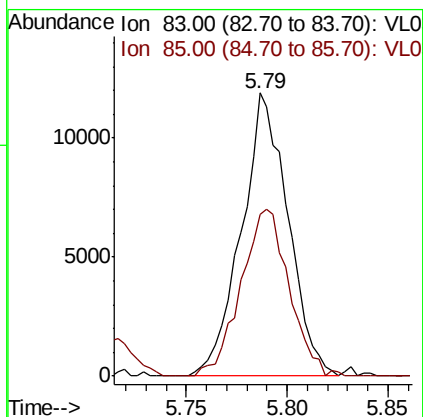
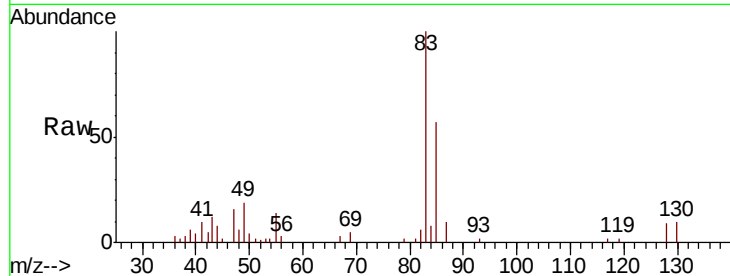




#29
Chloroform
Concen: 0.085 ppbv
RT: 5.79 min Scan# 933
Delta R.T. 0.02 min
Lab File: VL035540.D
Acq: 3 Sep 2020 21:12

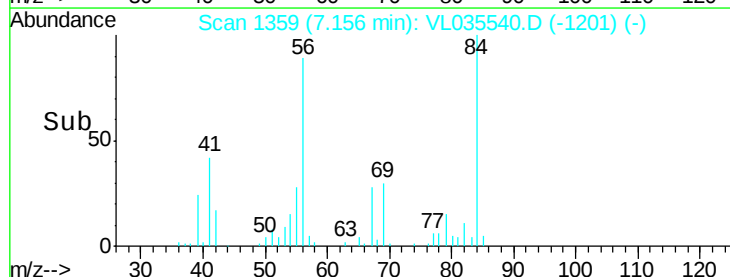
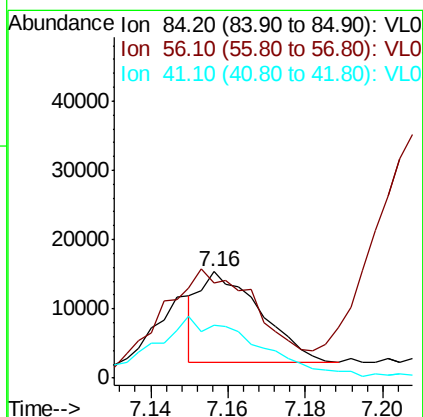
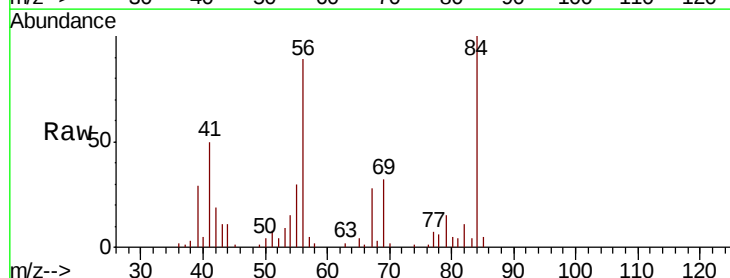
Instrument :
MSVOA_L
ClientSampled :
IA-4

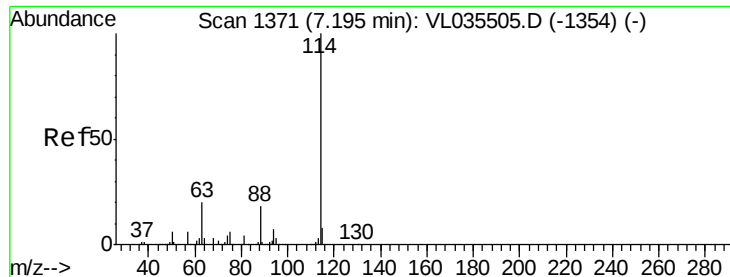
Tot Ion: 83 Resp: 19263
Ion Ratio Lower Upper
83 100
85 57.0 53.9 80.9



#30
Cyclohexane
Concen: 0.118 ppbv
RT: 7.16 min Scan# 1359
Delta R.T. 0.01 min
Lab File: VL035540.D
Acq: 3 Sep 2020 21:12

Tgt Ion: 84 Resp: 14023
Ion Ratio Lower Upper
84 100
56 206.7 80.1 120.1#
41 119.3 38.1 57.1#

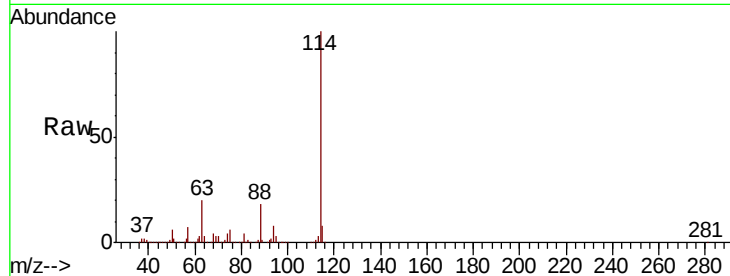




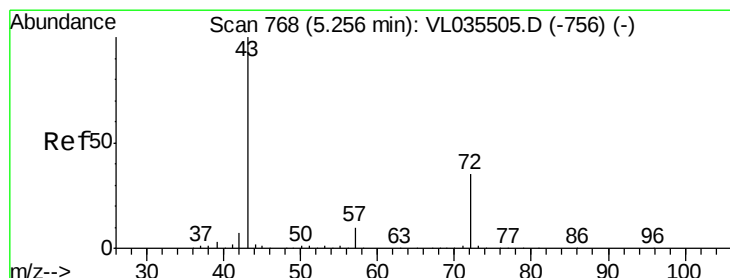
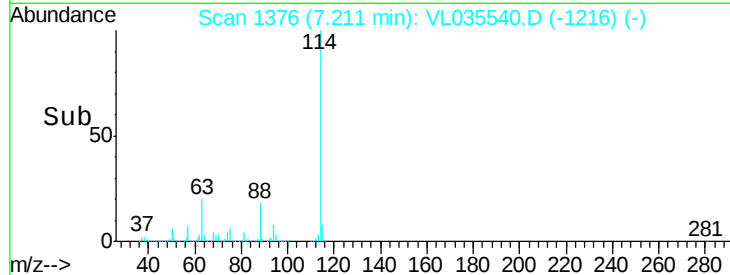
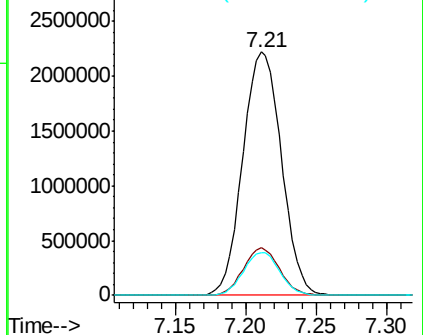
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.21 min Scan# 1376
 Delta R.T. 0.02 min
 Lab File: VL035540.D
 Acq: 3 Sep 2020 21:12

Instrument :
 MSVOA_L
 ClientSampled :
 IA-4

Tot Ion:114 Resp: 4272600
 Ion Ratio Lower Upper
 114 100
 63 18.4 14.7 22.1
 88 16.8 13.4 20.2

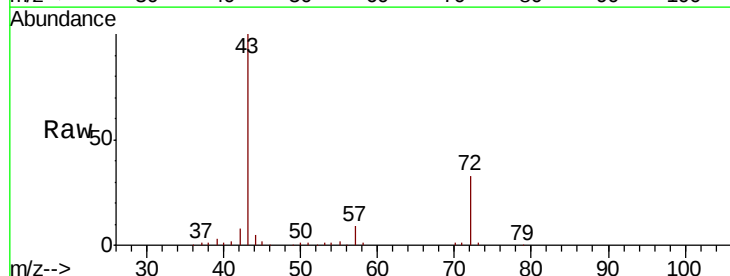


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

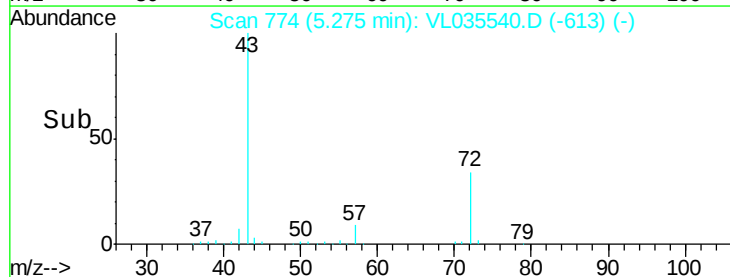
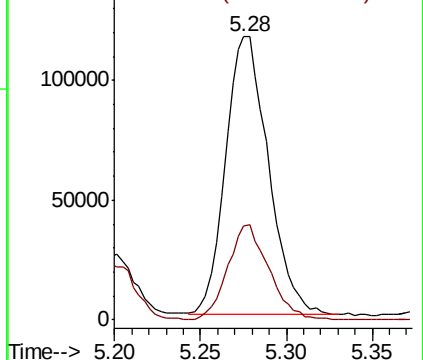


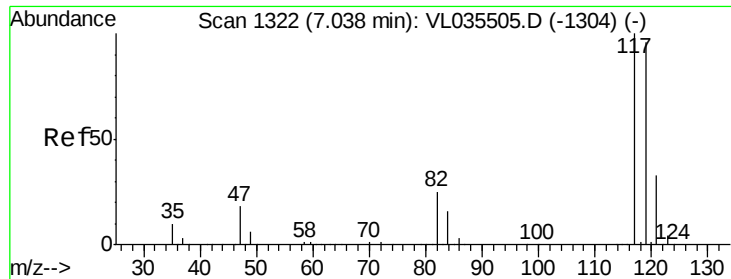
#34
 2-Butanone
 Concen: 1.588 ppbv
 RT: 5.28 min Scan# 774
 Delta R.T. 0.02 min
 Lab File: VL035540.D
 Acq: 3 Sep 2020 21:12

Tgt Ion: 43 Resp: 201310
 Ion Ratio Lower Upper
 43 100
 72 33.3 27.7 41.5



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.036 ppbv

RT: 7.05 min Scan# 1327

Delta R.T. 0.02 min

Lab File: VL035540.D

Acq: 3 Sep 2020 21:12

Instrument :

MSVOA_L

ClientSampleId :

IA-4

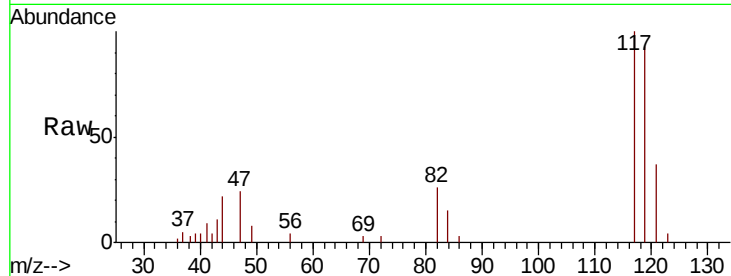
Tot Ion:117 Resp: 7797

Ion Ratio Lower Upper

117 100

119 84.1 77.2 115.8

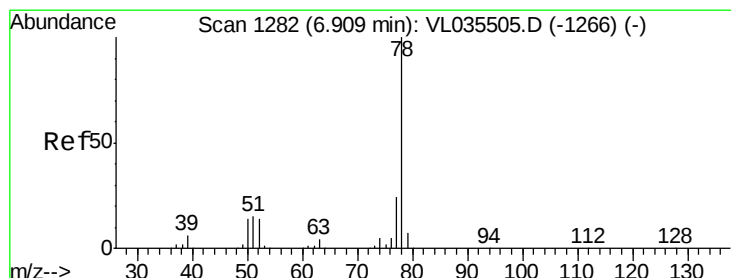
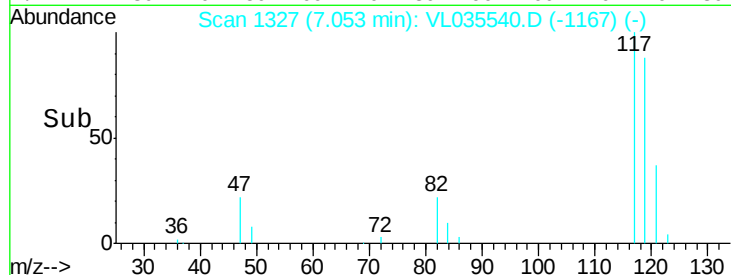
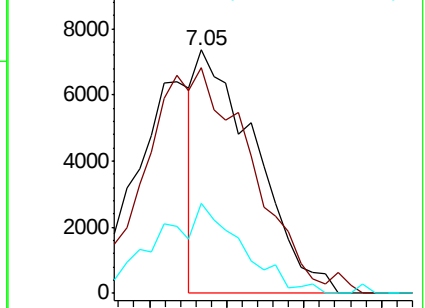
121 36.9 26.1 39.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.376 ppbv

RT: 6.93 min Scan# 1288

Delta R.T. 0.02 min

Lab File: VL035540.D

Acq: 3 Sep 2020 21:12

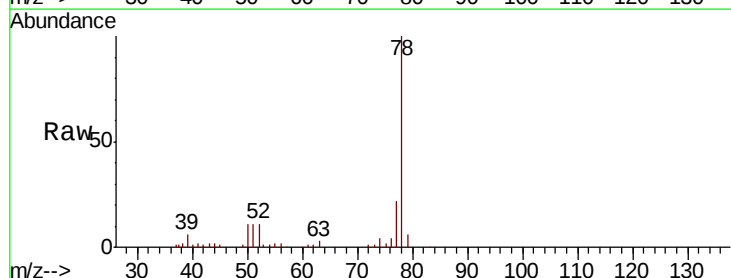
Tgt Ion: 78 Resp: 104109

Ion Ratio Lower Upper

78 100

77 22.0 19.3 28.9

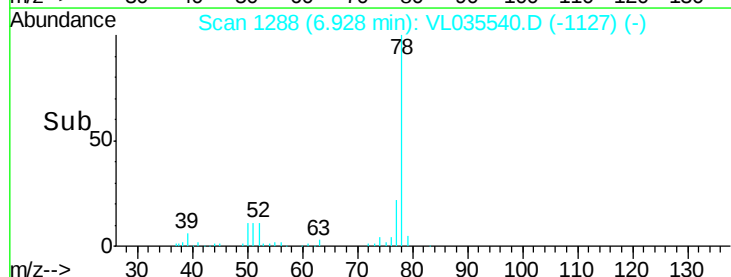
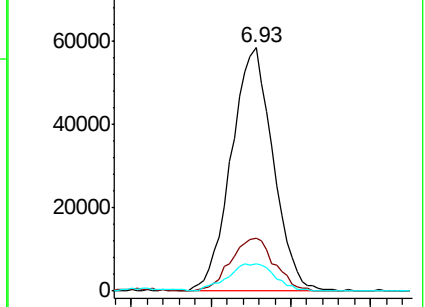
50 11.2 11.0 16.6

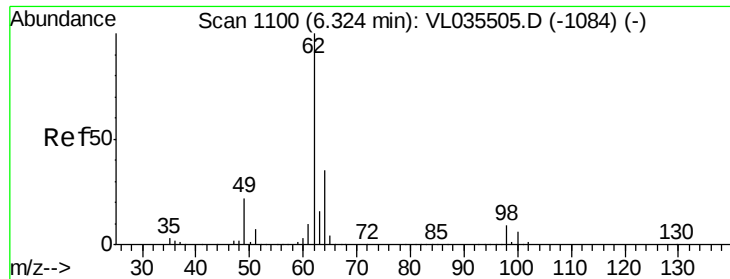


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 0.070 ppbv

RT: 6.35 min Scan# 1107

Delta R.T. 0.02 min

Lab File: VL035540.D

Acq: 3 Sep 2020 21:12

Instrument :

MSVOA_L

ClientSampleId :

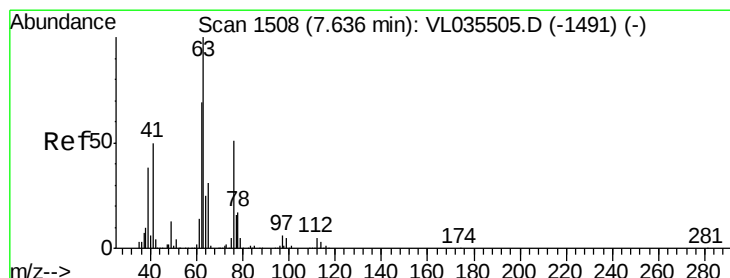
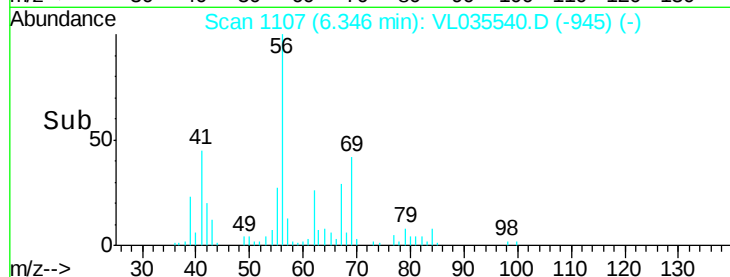
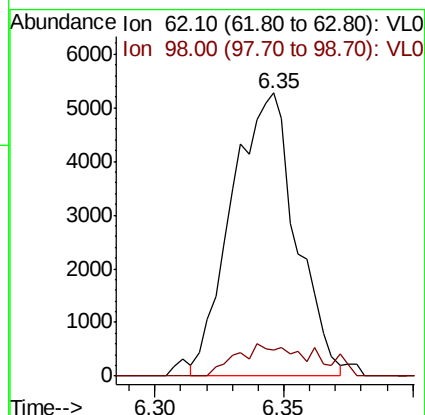
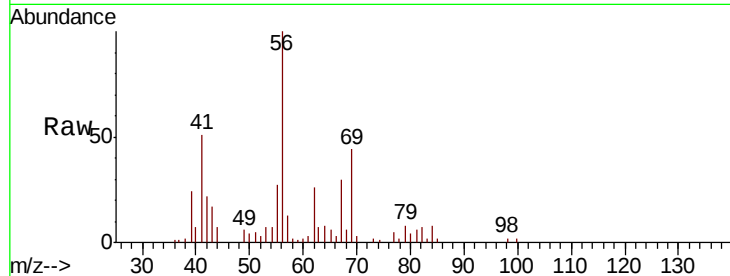
IA-4

Tot Ion: 62 Resp: 9176

Ion Ratio Lower Upper

62 100

98 13.5 7.4 11.0#



#39

1,2-Dichloropropane

Concen: 8.369 ppbv

RT: 7.21 min Scan# 1376

Delta R.T. -0.42 min

Lab File: VL035540.D

Acq: 3 Sep 2020 21:12

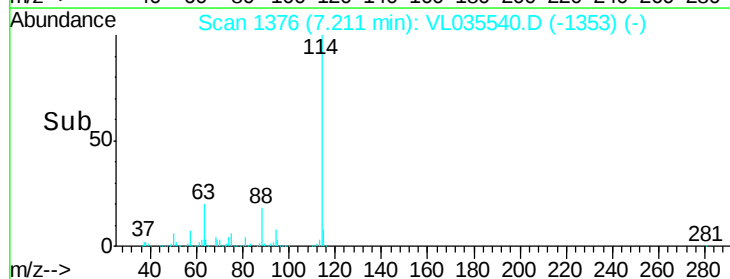
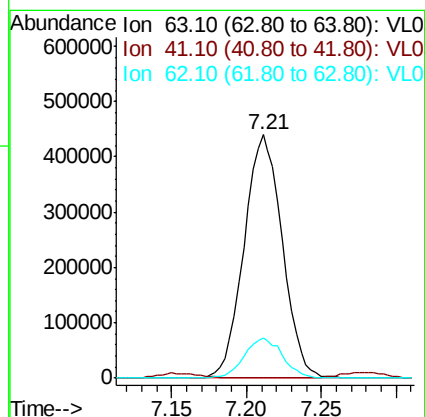
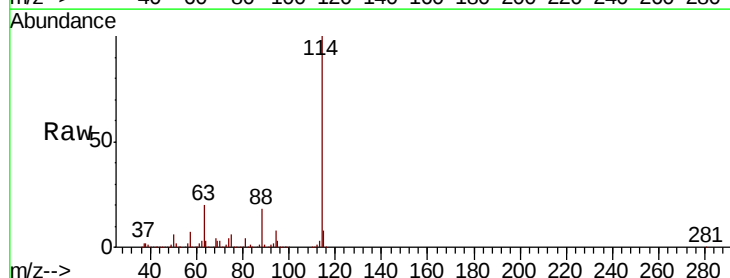
Tgt Ion: 63 Resp: 781944

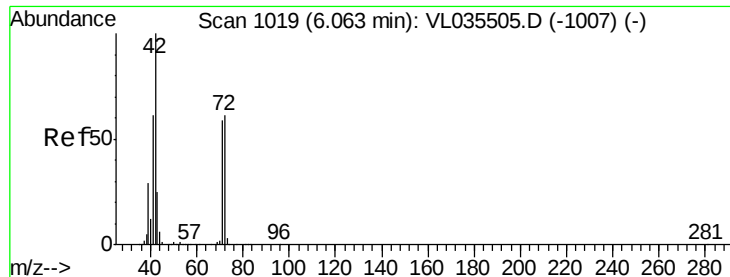
Ion Ratio Lower Upper

63 100

41 0.0 40.0 60.0#

62 16.3 55.4 83.0#

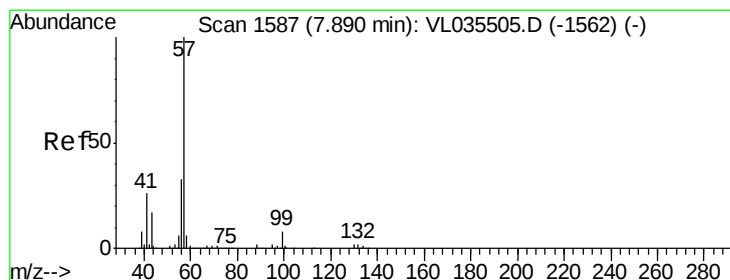
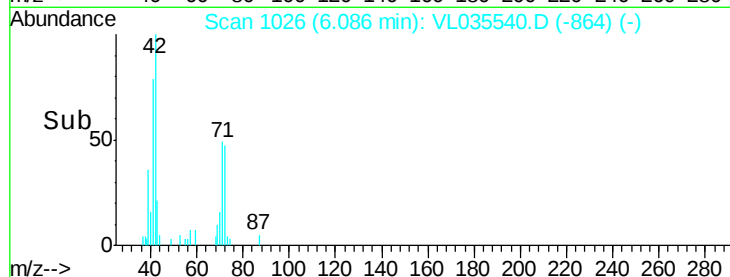
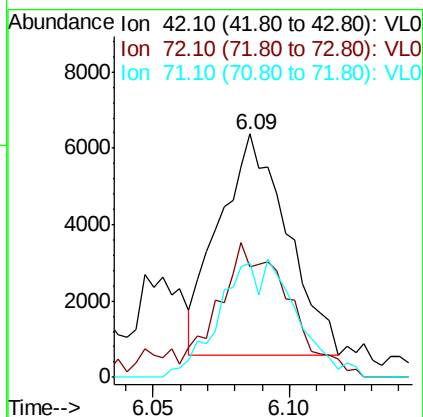
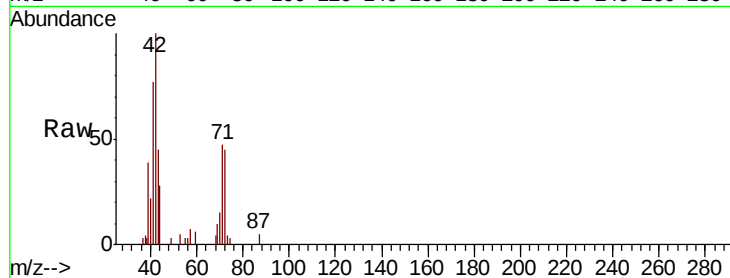




#41
Tetrahydrofuran
Concen: 0.150 ppbv
RT: 6.09 min Scan# 1026
Delta R.T. 0.02 min
Lab File: VL035540.D
Acq: 3 Sep 2020 21:12

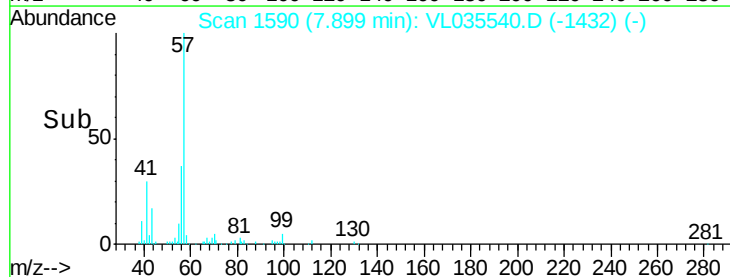
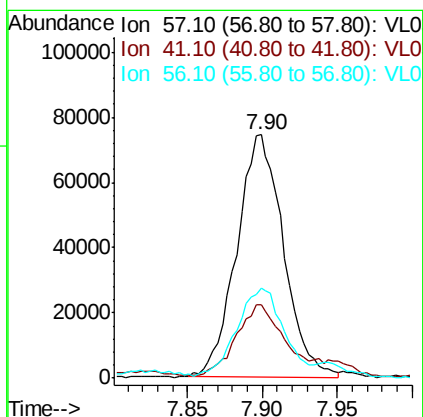
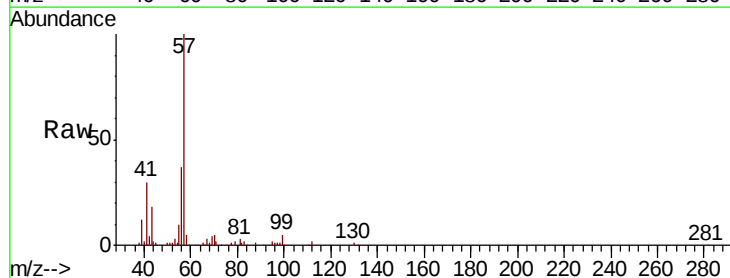
Instrument :
MSVOA_L
ClientSampled :
IA-4

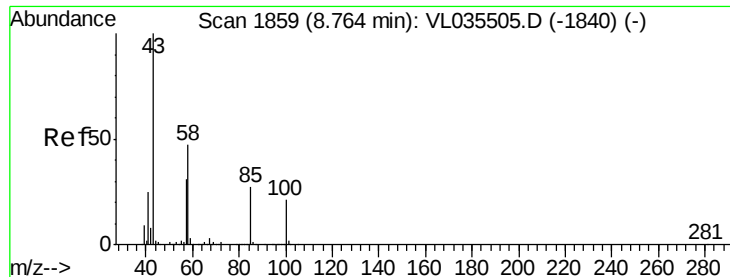
Tot Ion	42	Resp	10080
Ion Ratio	Lower	Upper	
42	100		
72	71.6	48.6	73.0
71	59.4	46.1	69.1



#44
2,2,4-Trimethylpentane
Concen: 0.444 ppbv
RT: 7.90 min Scan# 1590
Delta R.T. 0.01 min
Lab File: VL035540.D
Acq: 3 Sep 2020 21:12

Tgt Ion	57	Resp	161637
Ion Ratio	Lower	Upper	
57	100		
41	36.6	20.5	30.7#
56	42.6	25.3	37.9#

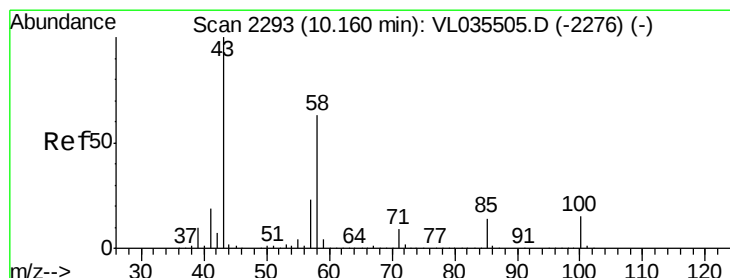
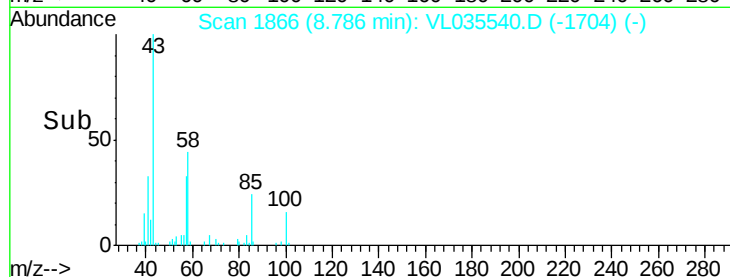
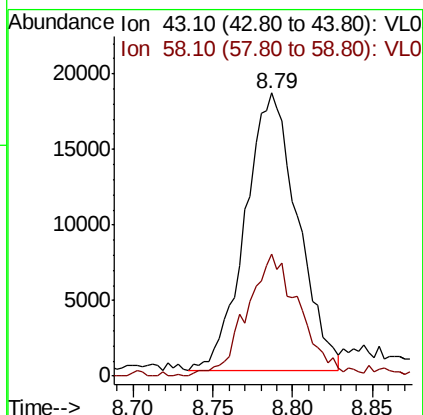
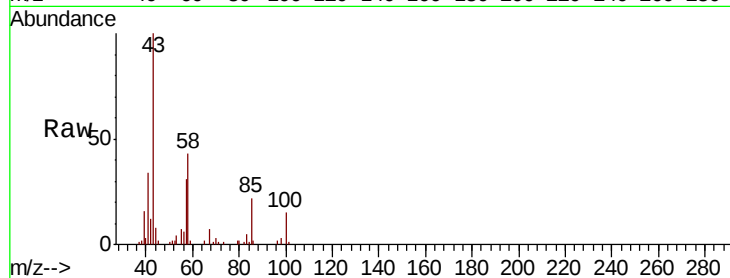




#50
4-Methyl-2-Pentanone
Concen: 0.226 ppbv
RT: 8.79 min Scan# 1866
Delta R.T. 0.02 min
Lab File: VL035540.D
Acq: 3 Sep 2020 21:12

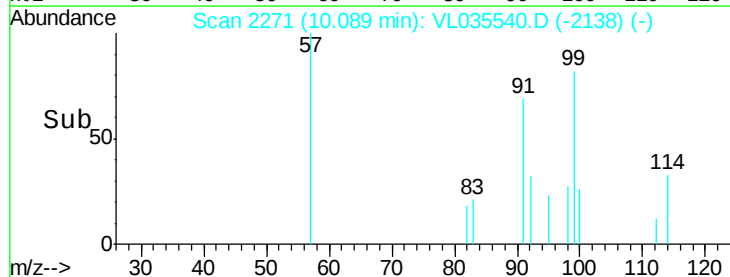
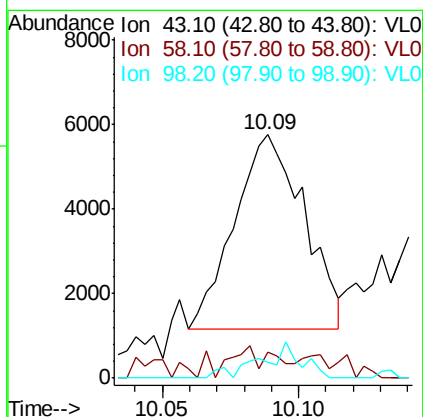
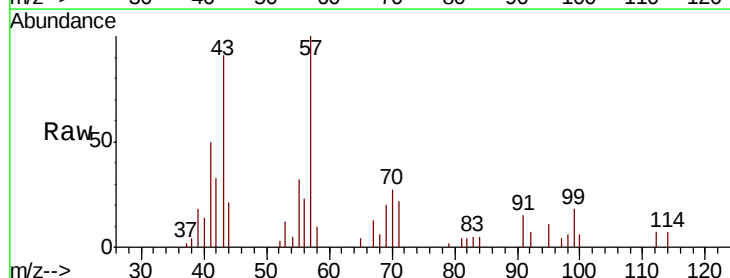
Instrument :
MSVOA_L
ClientSampled :
IA-4

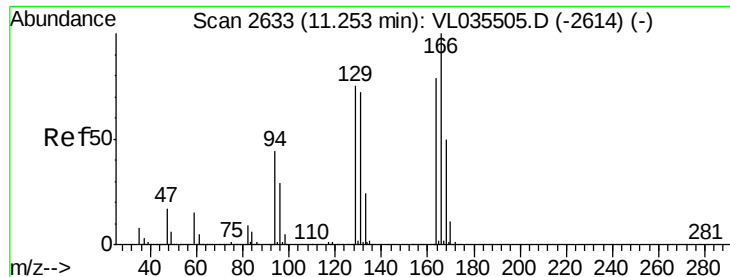
Tot Ion: 43 Resp: 41485
Ion Ratio Lower Upper
43 100
58 44.6 37.4 56.0



#51
2-Hexanone
Concen: 0.054 ppbv
RT: 10.09 min Scan# 2271
Delta R.T. -0.07 min
Lab File: VL035540.D
Acq: 3 Sep 2020 21:12

Tgt Ion: 43 Resp: 8184
Ion Ratio Lower Upper
43 100
58 0.0 50.2 75.4#
98 10.5 0.4 0.6#





#52

Tetrachloroethene

Concen: 0.141 ppbv

RT: 11.26 min Scan# 2635

Delta R.T. 0.01 min

Lab File: VL035540.D

Acq: 3 Sep 2020 21:12

Instrument :

MSVOA_L

ClientSampleId :

IA-4

Tot Ion:164 Resp: 22710

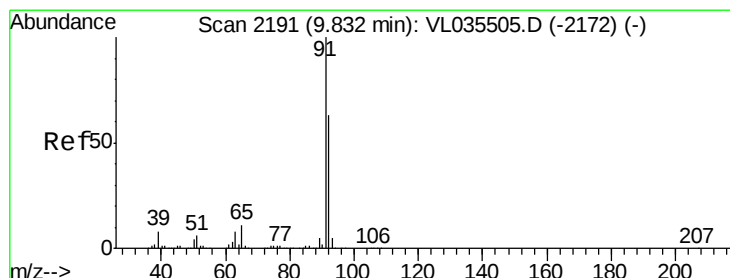
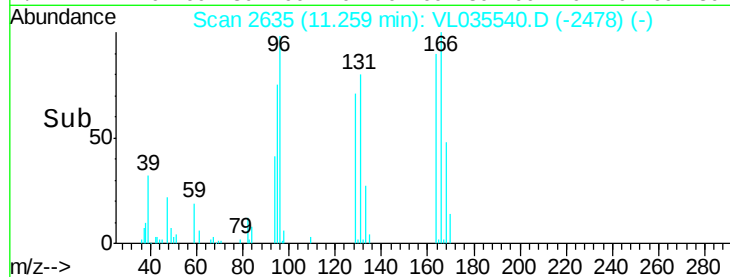
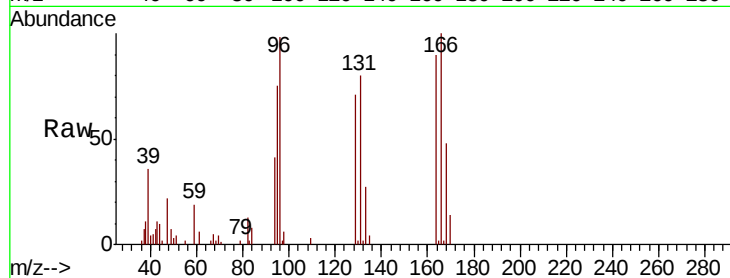
Ion	Ratio	Lower	Upper
164	100		
166	111.7	100.9	151.3
129	79.8	75.3	112.9
131	87.2	73.0	109.4

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: 7.376 ppbv

RT: 9.84 min Scan# 2194

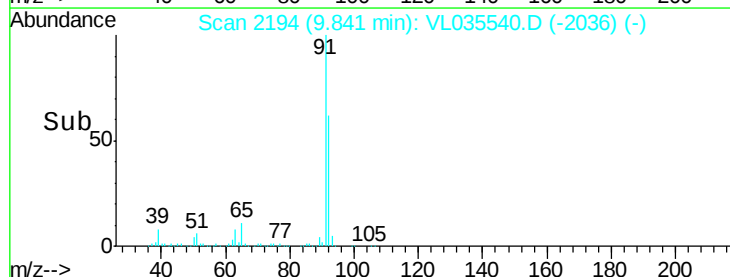
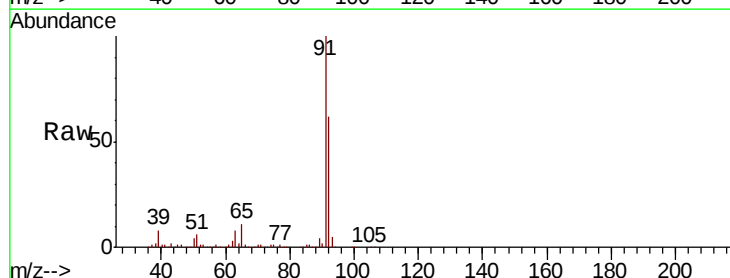
Delta R.T. 0.01 min

Lab File: VL035540.D

Acq: 3 Sep 2020 21:12

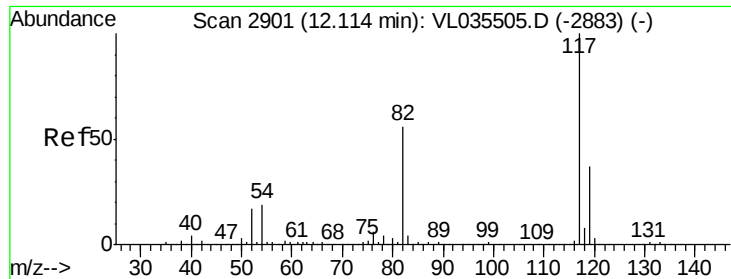
Tgt Ion: 91 Resp: 2565460

Ion	Ratio	Lower	Upper
91	100		
92	61.3	49.8	74.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

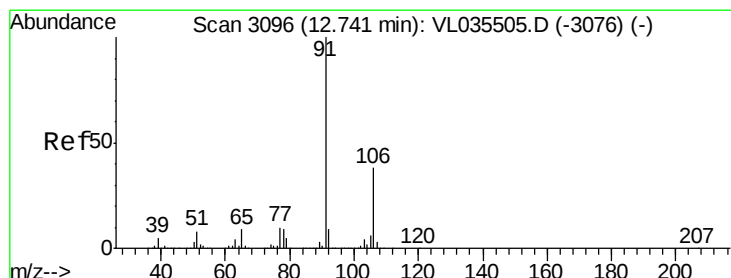
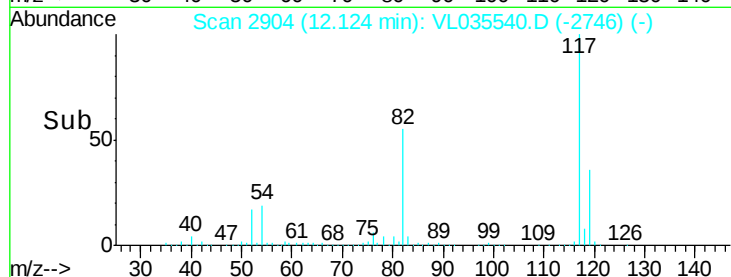
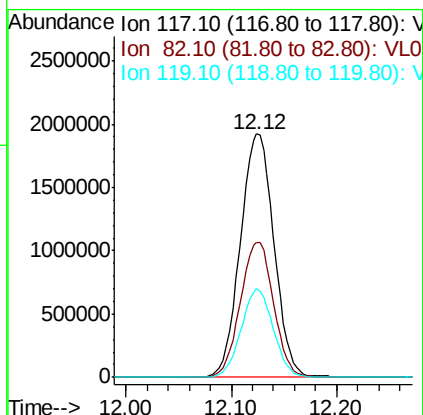
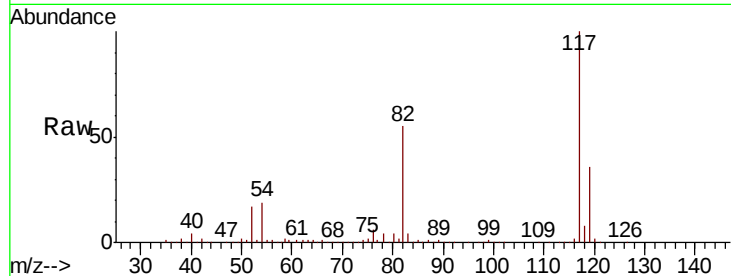
Ion 92.10 (91.80 to 92.80): VL0



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.12 min Scan# 2904
Delta R.T. 0.01 min
Lab File: VL035540.D
Acq: 3 Sep 2020 21:12

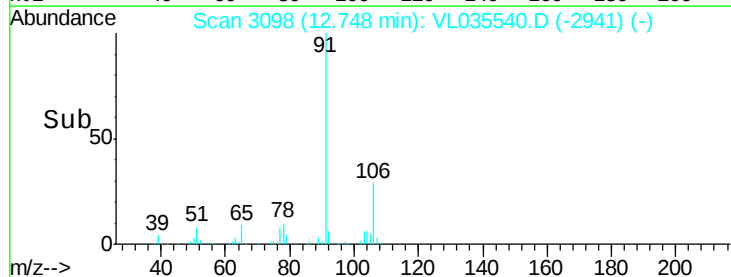
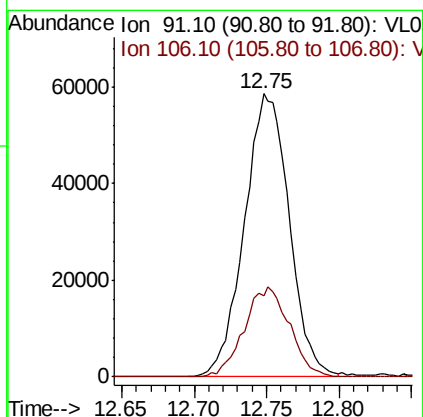
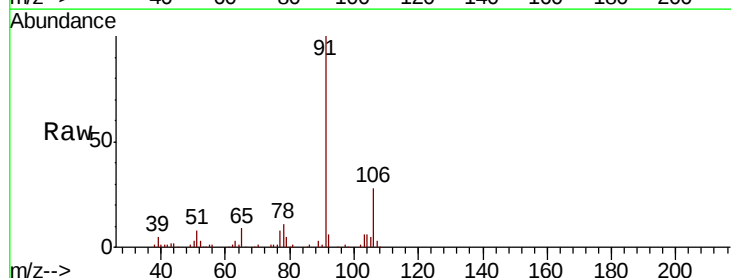
Instrument :
MSVOA_L
ClientSampleId :
IA-4

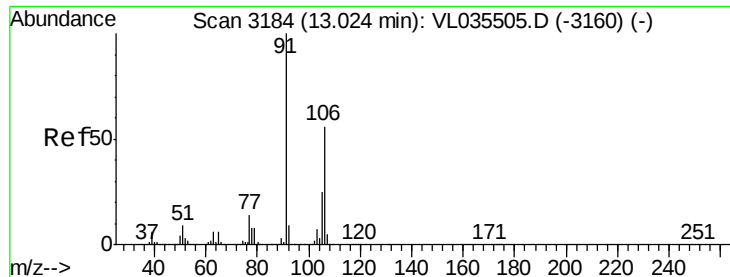
Tot Ion:117 Resp: 4271943
Ion Ratio Lower Upper
117 100
82 54.8 41.6 62.4
119 34.9 29.3 43.9



#58
Ethyl Benzene
Concen: 0.286 ppbv
RT: 12.75 min Scan# 3098
Delta R.T. 0.01 min
Lab File: VL035540.D
Acq: 3 Sep 2020 21:12

Tgt Ion: 91 Resp: 125927
Ion Ratio Lower Upper
91 100
106 28.5 30.3 45.5#

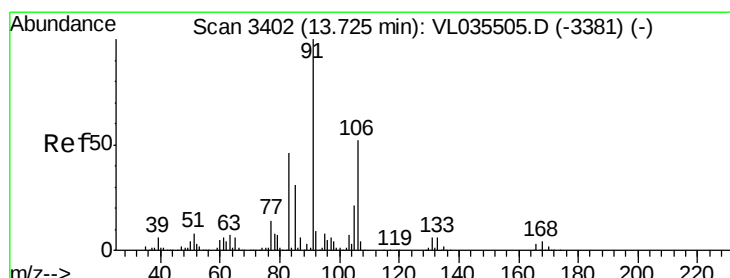
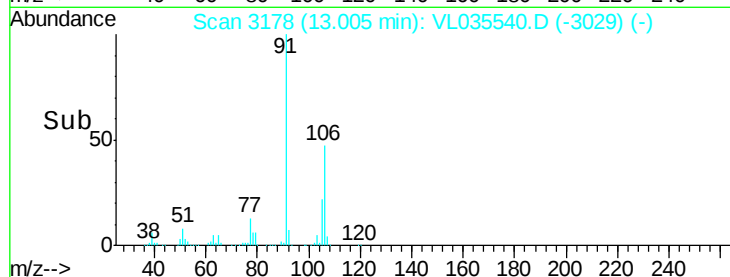
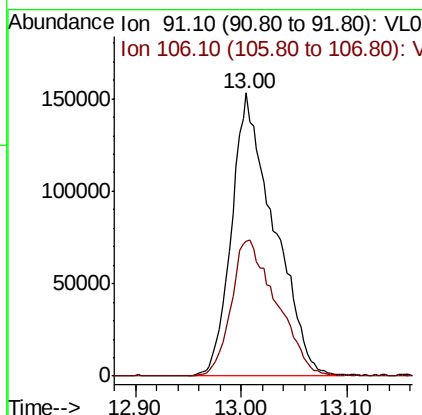
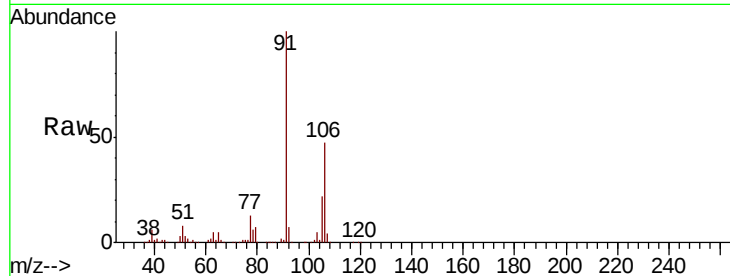




#59
m/p-Xylene
Concen: 1.160 ppbv
RT: 13.00 min Scan# 3178
Delta R.T. -0.02 min
Lab File: VL035540.D
Acq: 3 Sep 2020 21:12

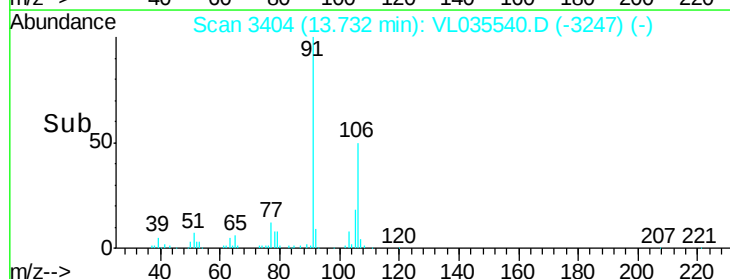
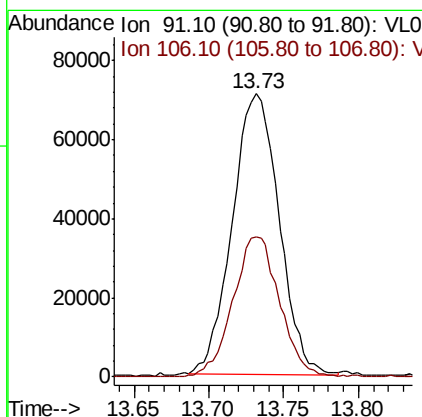
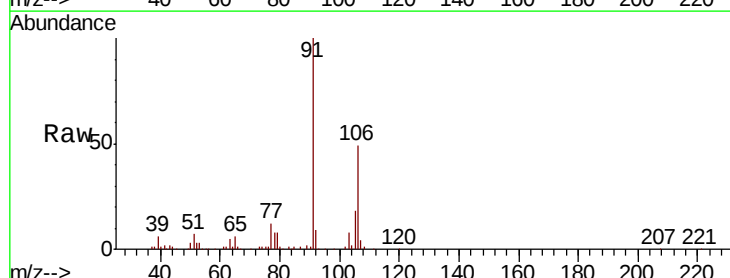
Instrument :
MSVOA_L
ClientSampled :
IA-4

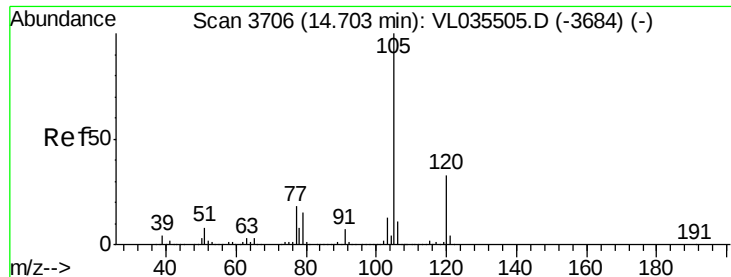
Tot Ion: 91 Resp: 427113
Ion Ratio Lower Upper
91 100
106 51.5 43.4 65.2



#60
o-Xylene
Concen: 0.418 ppbv
RT: 13.73 min Scan# 3404
Delta R.T. 0.01 min
Lab File: VL035540.D
Acq: 3 Sep 2020 21:12

Tgt Ion: 91 Resp: 154816
Ion Ratio Lower Upper
91 100
106 49.9 25.8 77.4





#62

Isopropylbenzene

Concen: 0.030 ppbv

RT: 14.71 min Scan# 3707

Delta R.T. 0.00 min

Lab File: VL035540.D

Acq: 3 Sep 2020 21:12

Instrument :

MSVOA_L

ClientSampleId :

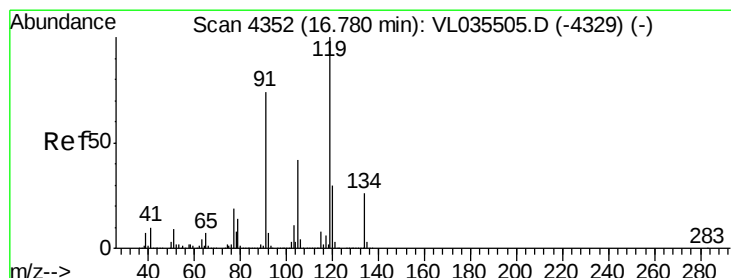
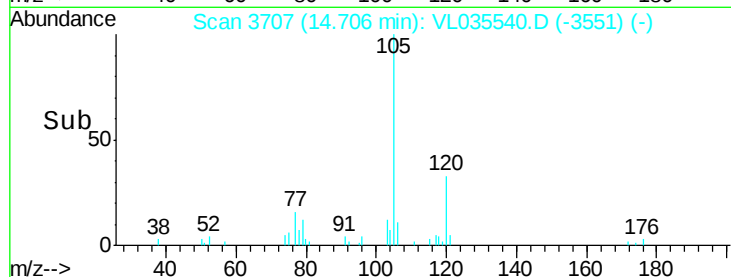
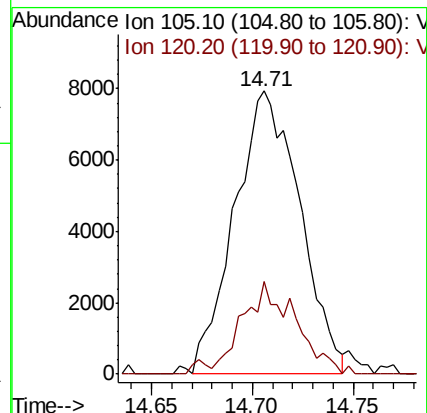
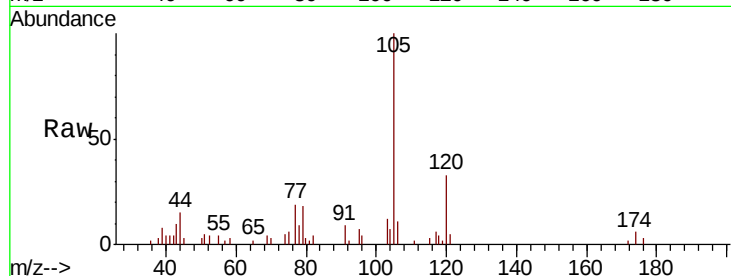
IA-4

Tot Ion:105 Resp: 17934

Ion Ratio Lower Upper

105 100

120 27.6 25.0 37.4



#65

tert-Butylbenzene

Concen: 0.050 ppbv

RT: 16.80 min Scan# 4358

Delta R.T. 0.02 min

Lab File: VL035540.D

Acq: 3 Sep 2020 21:12

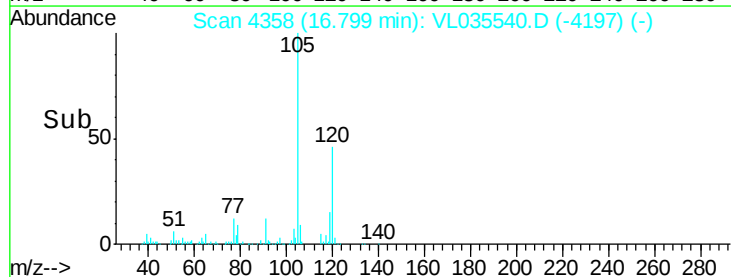
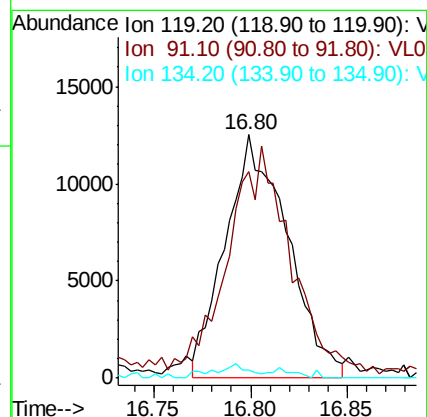
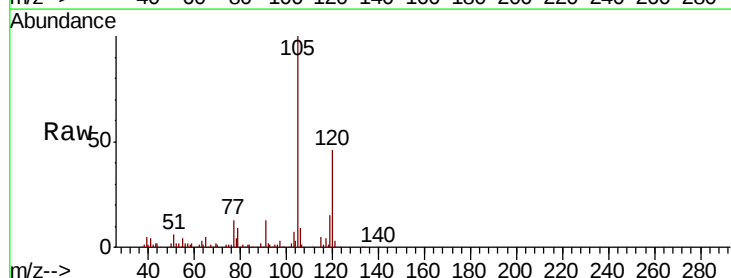
Tgt Ion:119 Resp: 27884

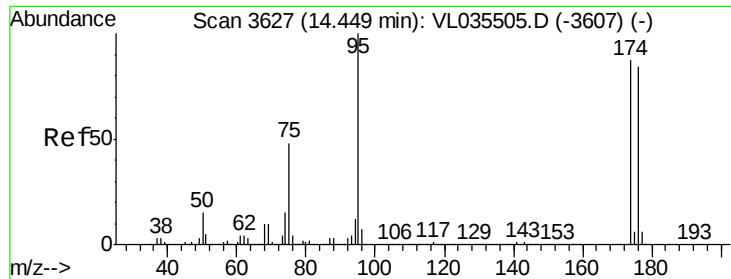
Ion Ratio Lower Upper

119 100

91 0.0 58.6 87.8#

134 3.5 18.9 28.3#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.403 ppbv

RT: 14.46 min Scan# 3629

Delta R.T. 0.01 min

Lab File: VL035540.D

Acq: 3 Sep 2020 21:12

Instrument :

MSVOA_L

ClientSampled :

IA-4

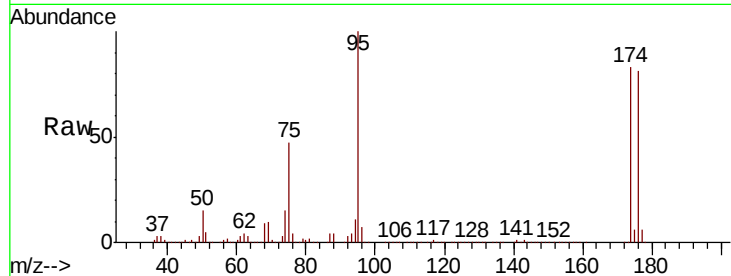
Tot Ion: 95 Resp: 3155975

Ion Ratio Lower Upper

95 100

174 84.7 69.6 104.4

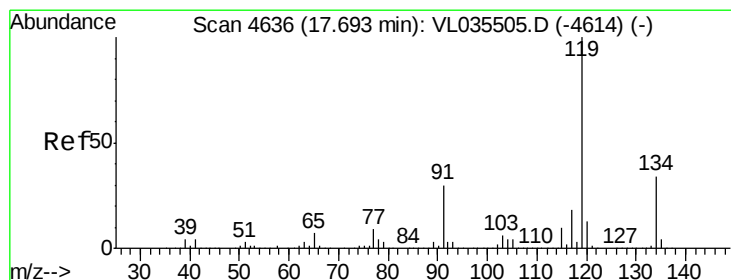
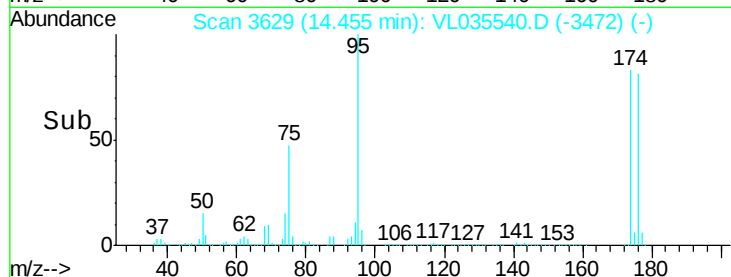
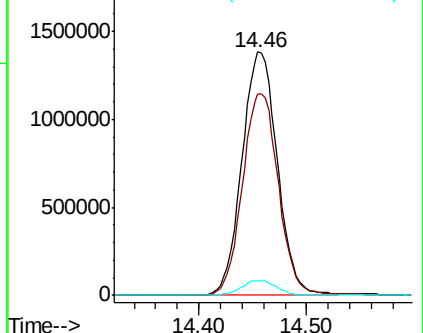
175 6.1 5.1 7.7



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: 0.179 ppbv

RT: 17.70 min Scan# 4637

Delta R.T. 0.00 min

Lab File: VL035540.D

Acq: 3 Sep 2020 21:12

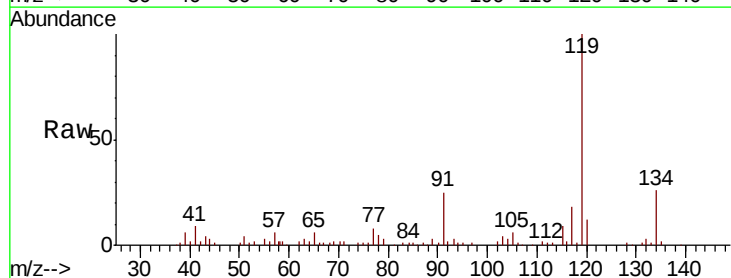
Tgt Ion: 119 Resp: 115825

Ion Ratio Lower Upper

119 100

134 29.8 25.0 37.4

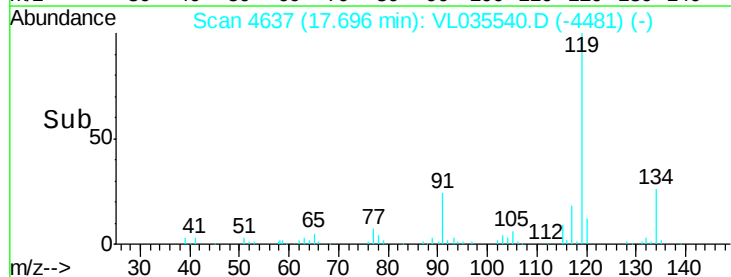
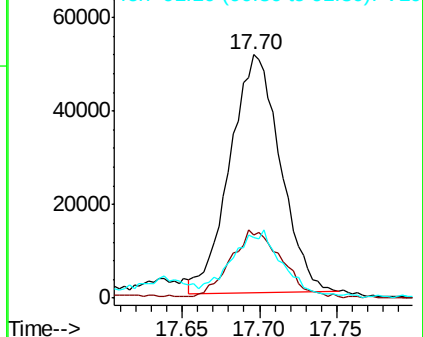
91 28.0 22.3 33.5

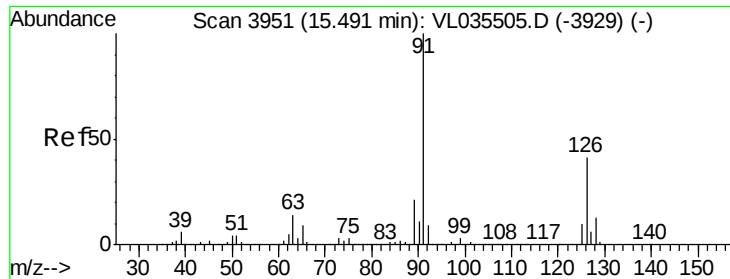


Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): VL0

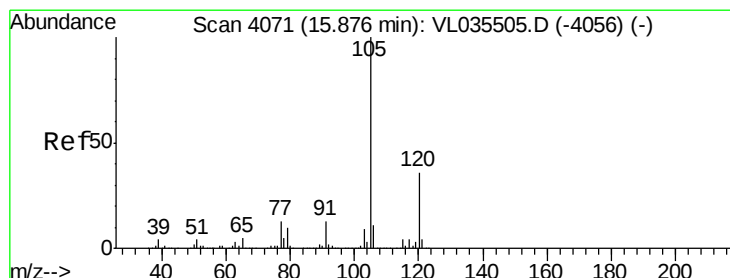
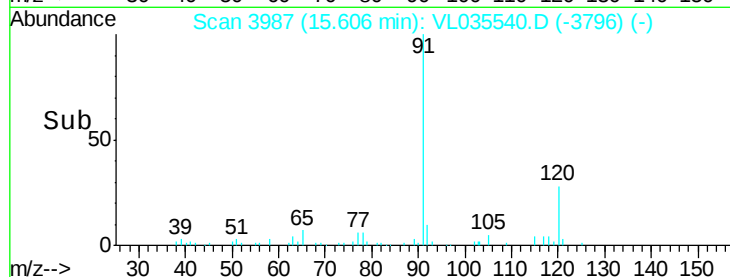
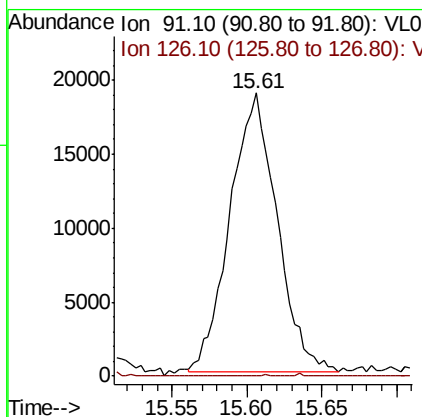
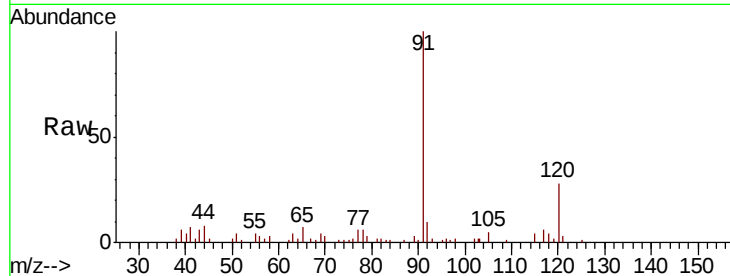




#71
2-Chlorotoluene
Concen: 0.095 ppbv
RT: 15.61 min Scan# 3987
Delta R.T. 0.12 min
Lab File: VL035540.D
Acq: 3 Sep 2020 21:12

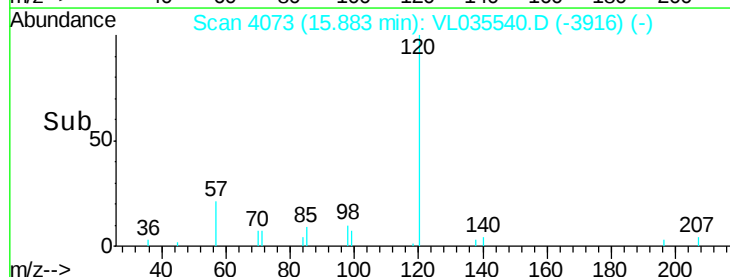
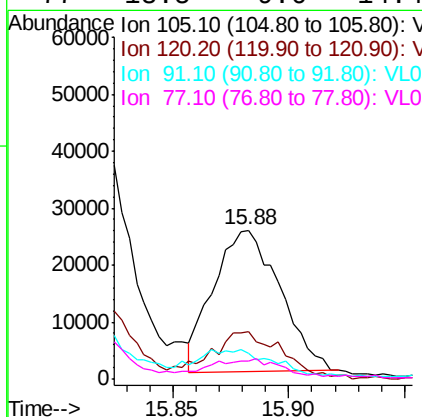
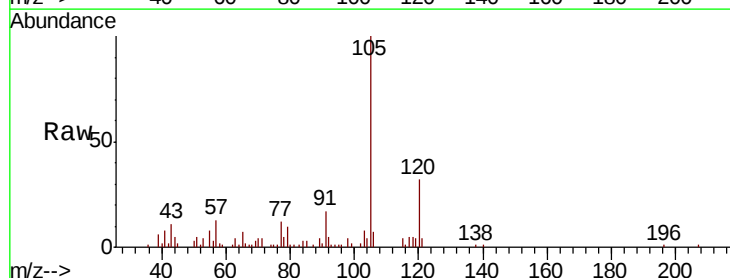
Instrument :
MSVOA_L
ClientSampleId :
IA-4

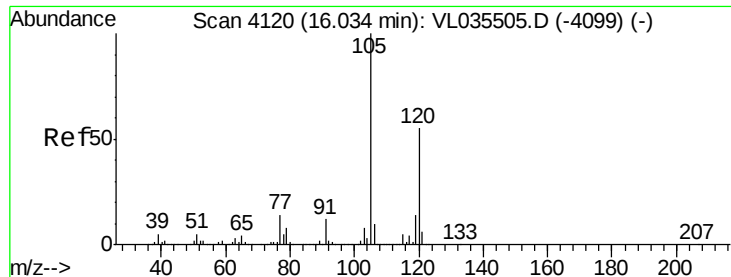
Tot Ion: 91 Resp: 41104
Ion Ratio Lower Upper
91 100
126 2.6 15.6 62.6#



#72
4-Ethyltoluene
Concen: 0.105 ppbv
RT: 15.88 min Scan# 4073
Delta R.T. 0.01 min
Lab File: VL035540.D
Acq: 3 Sep 2020 21:12

Tgt Ion:105 Resp: 49488
Ion Ratio Lower Upper
105 100
120 36.6 27.4 41.2
91 23.7 9.7 14.5#
77 18.5 9.6 14.4#





#73

1,3,5-Trimethylbenzene

Concen: 0.046 ppbv

RT: 16.05 min Scan# 4124

Delta R.T. 0.01 min

Lab File: VL035540.D

Acq: 3 Sep 2020 21:12

Instrument :

MSVOA_L

ClientSampled :

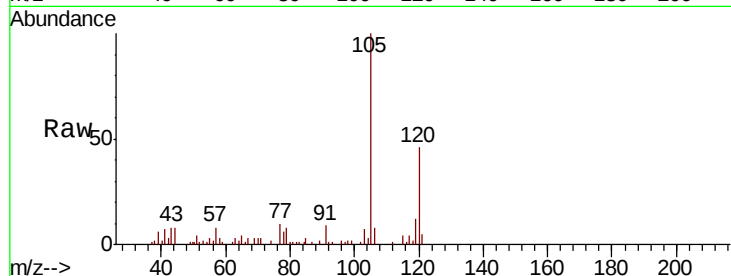
IA-4

Tot Ion:105 Resp: 19837

Ion Ratio Lower Upper

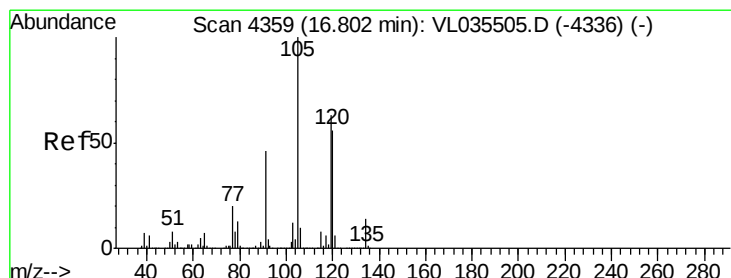
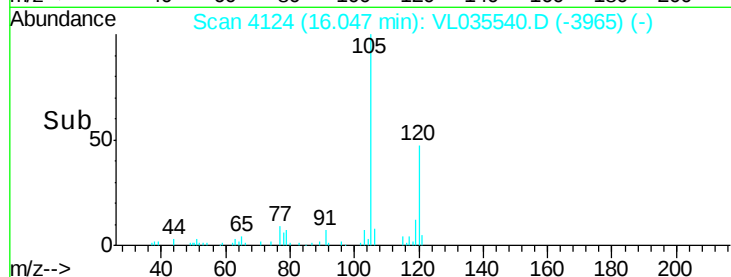
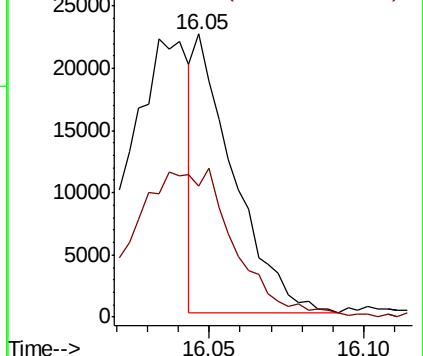
105 100

120 45.5 44.2 66.2



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 0.435 ppbv

RT: 16.80 min Scan# 4359

Delta R.T. -0.00 min

Lab File: VL035540.D

Acq: 3 Sep 2020 21:12

Tgt Ion:105 Resp: 208339

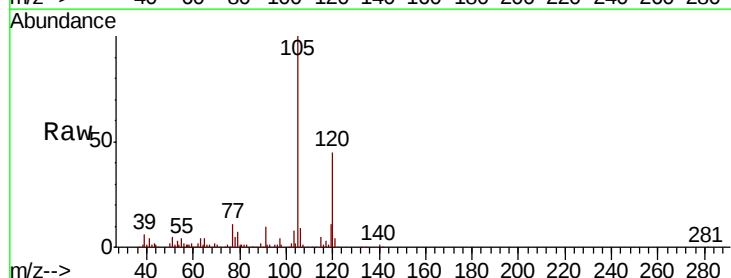
Ion Ratio Lower Upper

105 100

120 44.9 44.4 66.6

91 9.4 37.1 55.7#

77 11.0 16.0 24.0#

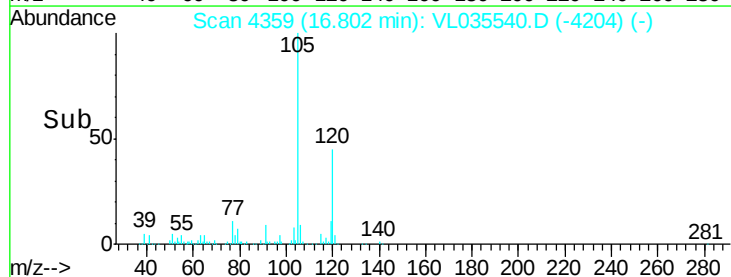
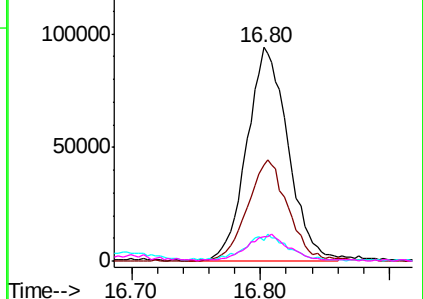


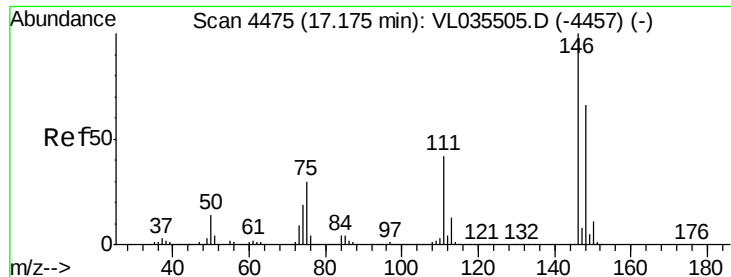
Abundance Ion 105.10 (104.80 to 105.80): V

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: 0.095 ppbv

RT: 17.18 min Scan# 4475

Delta R.T. -0.00 min

Lab File: VL035540.D

Acq: 3 Sep 2020 21:12

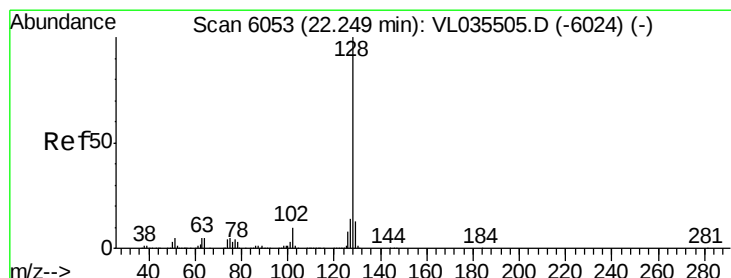
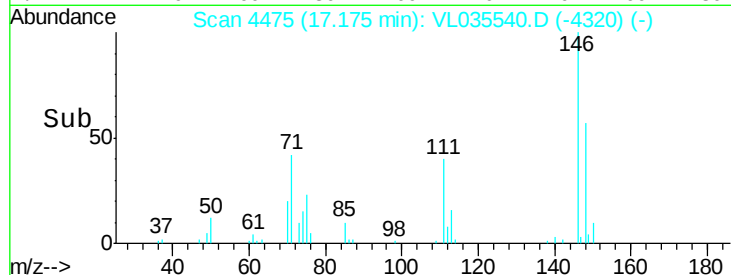
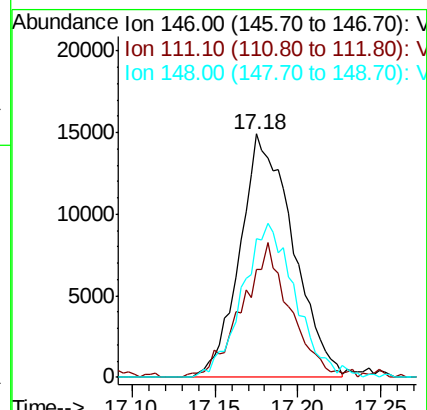
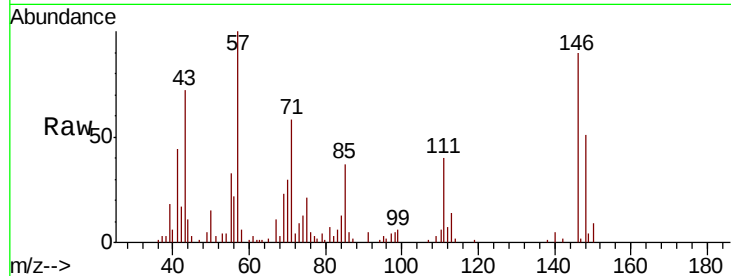
Instrument :

MSVOA_L

ClientSampleId :

IA-4

Tot Ion:146	Resp:	33197
Ion	Ratio	Lower Upper
146	100	
111	51.6	20.0 60.0
148	63.5	33.2 99.6



#79

Naphthalene

Concen: 2.743 ppbv

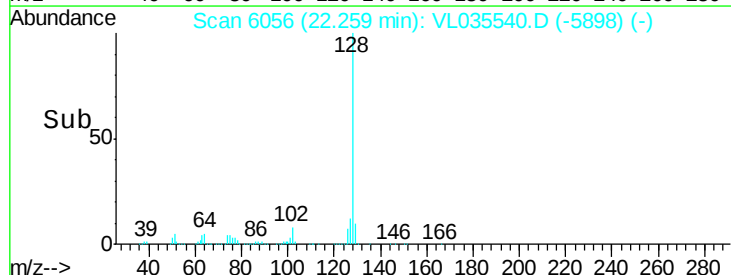
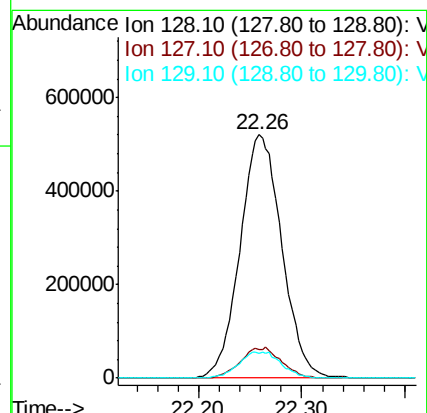
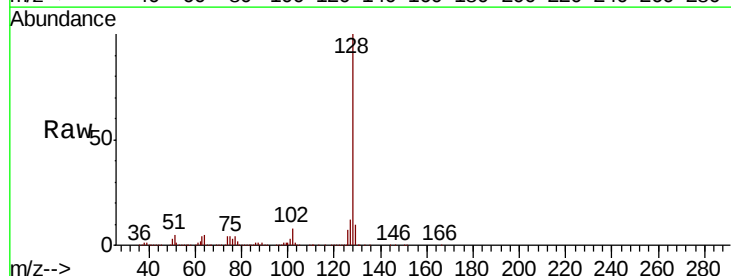
RT: 22.26 min Scan# 6056

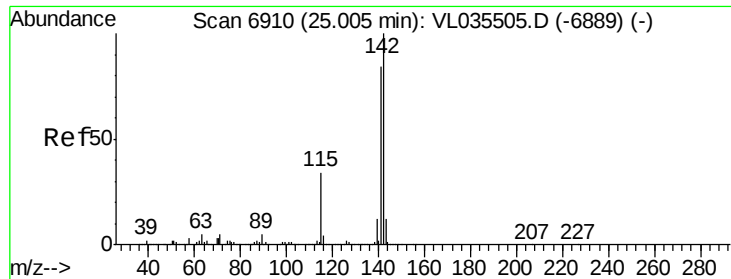
Delta R.T. 0.01 min

Lab File: VL035540.D

Acq: 3 Sep 2020 21:12

Tgt Ion:128	Resp:	1456868
Ion	Ratio	Lower Upper
128	100	
127	11.7	11.4 17.2
129	10.3	10.5 15.7#





#80
 Naphthalene, 2-methyl-
 Concen: 0.612 ppbv
 RT: 25.02 min Scan# 6914
 Delta R.T. 0.01 min
 Lab File: VL035540.D
 Acq: 3 Sep 2020 21:12

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-4

Tot Ion:	142	Resp:	110966
Ion	Ratio	Lower	Upper
142	100		
141	82.7	67.6	101.4
115	34.0	25.8	38.8

