

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090320\
 Data File : VL035536.D
 Acq On : 3 Sep 2020 18:32
 Operator : SY/AP
 Sample : L3898-02DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2DL

Quant Time: Sep 04 06:46:57 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	5.69	49	1063328	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	4515849	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	4509791	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.46	95	3286335	10.26	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.60%

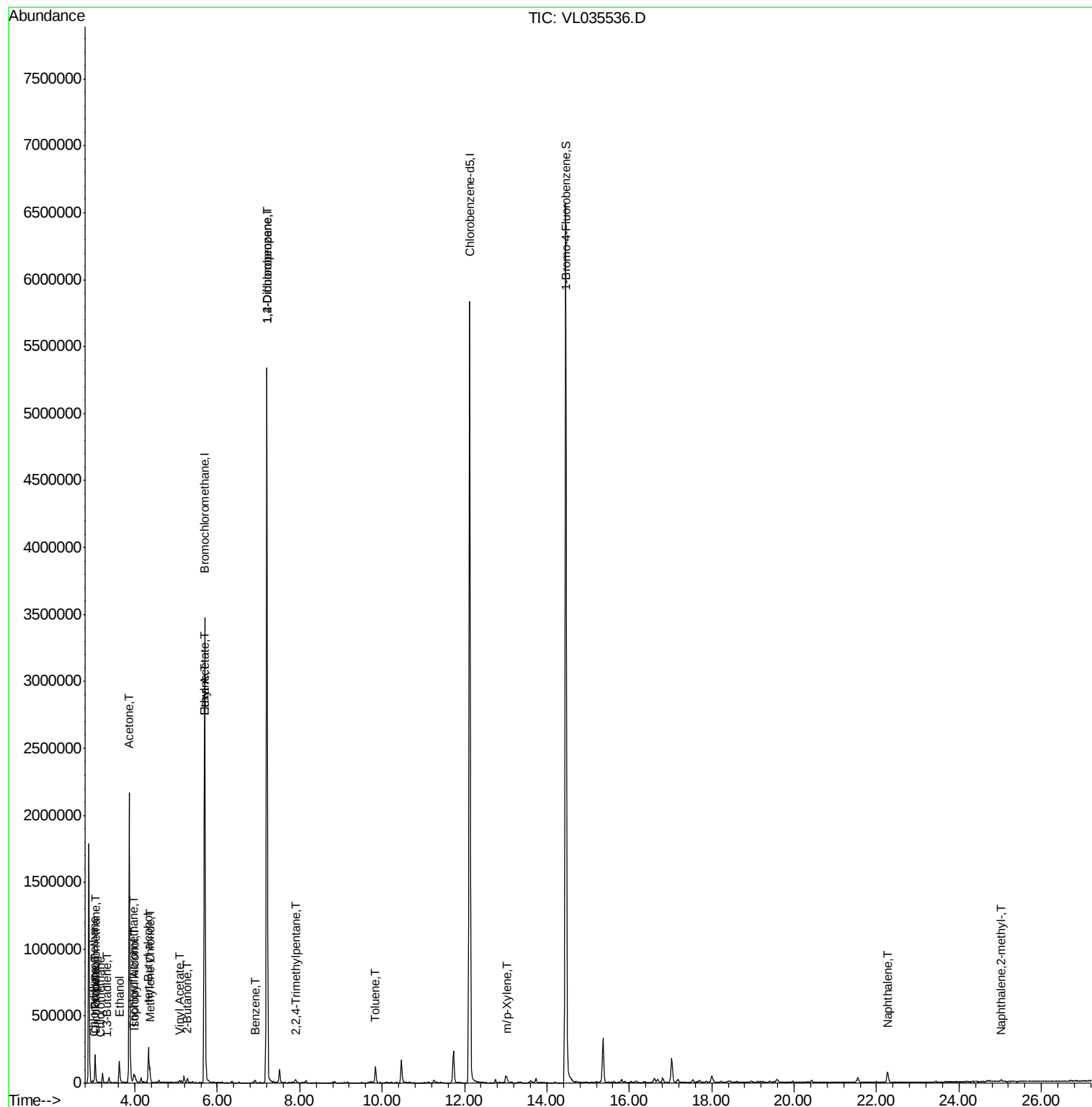
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.06	85	15519	0.084	ppbv 99
3) Chlorodifluoromethane	3.00	51	16191	0.138	ppbv # 78
4) Chloromethane	3.15	50	4136	0.066	ppbv # 79
9) Propene	3.03	41	45476	1.003	ppbv # 66
11) Trichlorofluoromethane	3.97	101	40079	0.149	ppbv 98
13) Ethanol	3.62	45	171175	15.228	ppbv 97
15) Acetone	3.86	43	2038616	17.383	ppbv 99
16) 1,3-Butadiene	3.32	39	1467	0.034	ppbv # 25
17) tert-Butyl alcohol	4.33	59	16592	0.116	ppbv # 72
19) Isopropyl Alcohol	3.99	45	56459	0.807	ppbv # 93
20) Methylene Chloride	4.36	84	48445	0.555	ppbv 97
23) Vinyl Acetate	5.09	43	13591	0.090	ppbv # 81
25) Ethyl Acetate	5.71	43	30879	0.149	ppbv # 95
26) Hexane	5.71	57	26185	0.223	ppbv # 74
34) 2-Butanone	5.28	43	36685	0.274	ppbv 99
36) Benzene	6.92	78	13382	0.046	ppbv 97
39) 1,2-Dichloropropane	7.20	63	828490	8.390	ppbv # 32
44) 2,2,4-Trimethylpentane	7.90	57	18078	0.047	ppbv # 82
53) Toluene	9.84	91	99355	0.270	ppbv 96
59) m/p-Xylene	13.03	91	14215	0.037	ppbv # 24
79) Naphthalene	22.27	128	56516	0.101	ppbv 96
80) Naphthalene,2-methyl-	25.02	142	9617	0.050	ppbv 98

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

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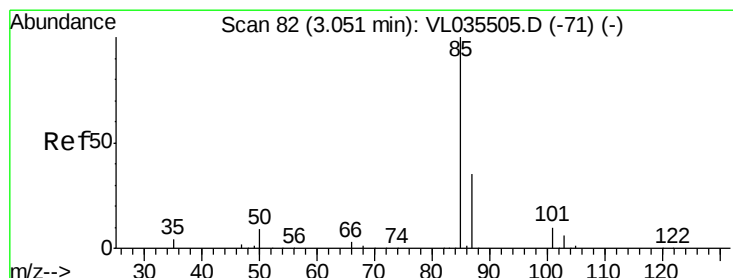
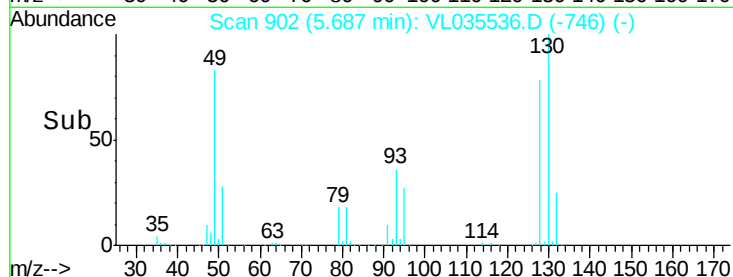
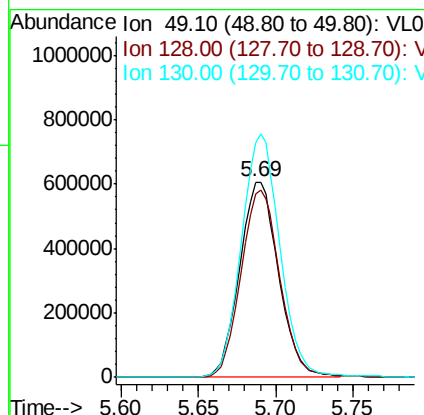
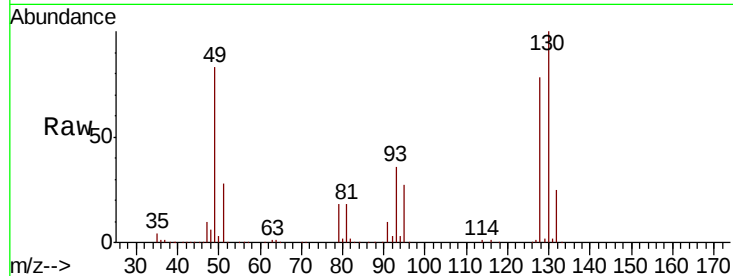




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.69 min Scan# 902
 Delta R.T. 0.00 min
 Lab File: VL035536.D
 Acq: 3 Sep 2020 18:32

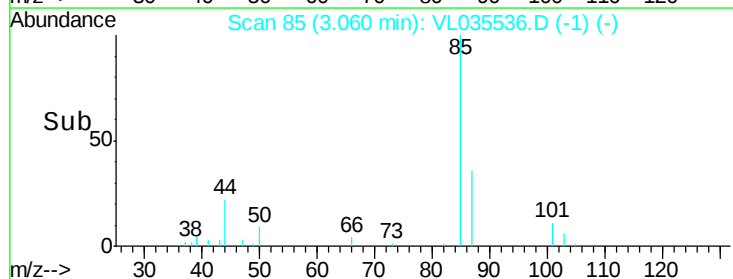
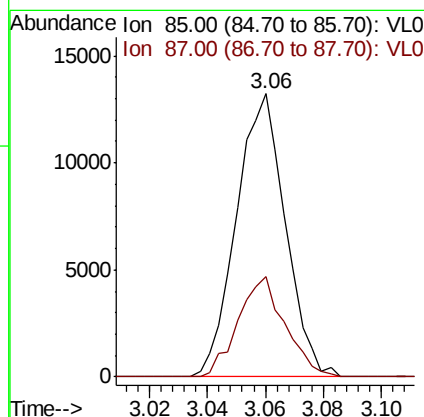
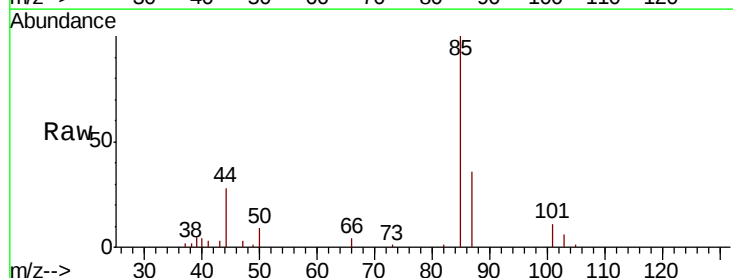
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2DL

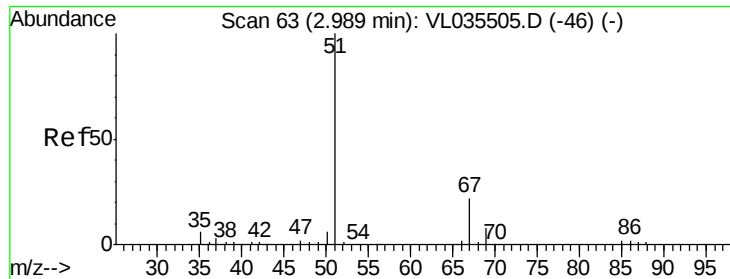
Tot Ion: 49 Resp: 1063328
 Ion Ratio Lower Upper
 49 100
 128 96.5 50.0 150.1
 130 123.8 64.4 193.2



#2
 Dichlorodifluoromethane
 Concen: 0.084 ppbv
 RT: 3.06 min Scan# 85
 Delta R.T. 0.01 min
 Lab File: VL035536.D
 Acq: 3 Sep 2020 18:32

Tgt Ion: 85 Resp: 15519
 Ion Ratio Lower Upper
 85 100
 87 35.5 28.0 42.0





#3

Chlorodifluoromethane

Concen: 0.138 ppbv

RT: 3.00 min Scan# 66

Delta R.T. 0.01 min

Lab File: VL035536.D

Acq: 3 Sep 2020 18:32

Instrument :

MSVOA_L

ClientSampleId :

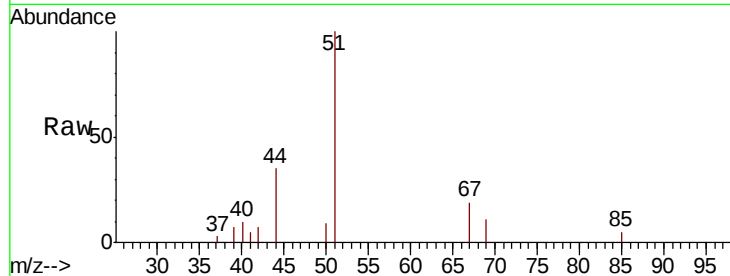
IA-2DL

Tot Ion: 51 Resp: 16191

Ion Ratio Lower Upper

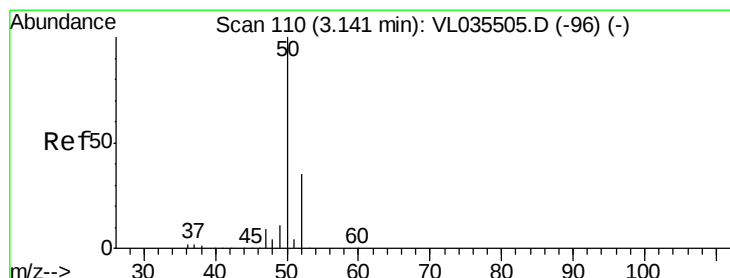
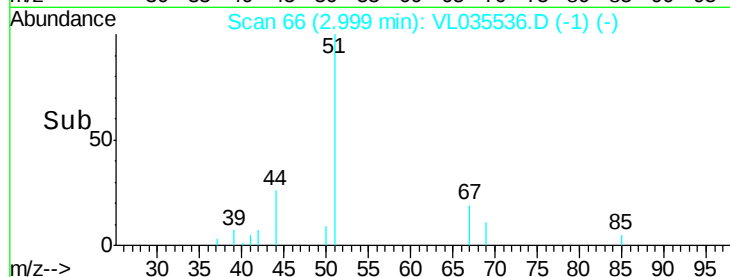
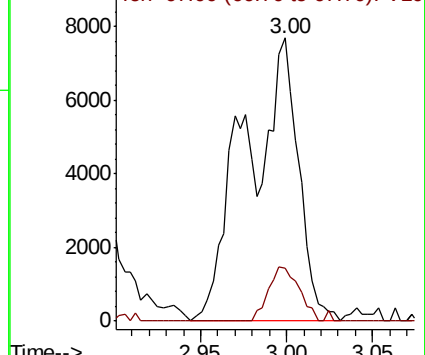
51 100

67 11.6 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: 0.066 ppbv

RT: 3.15 min Scan# 114

Delta R.T. 0.01 min

Lab File: VL035536.D

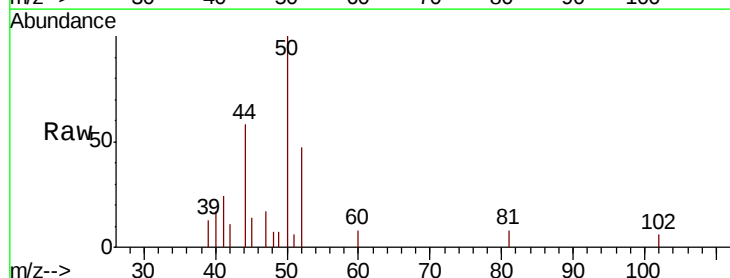
Acq: 3 Sep 2020 18:32

Tgt Ion: 50 Resp: 4136

Ion Ratio Lower Upper

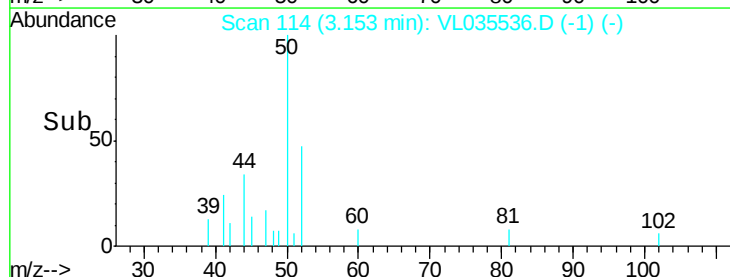
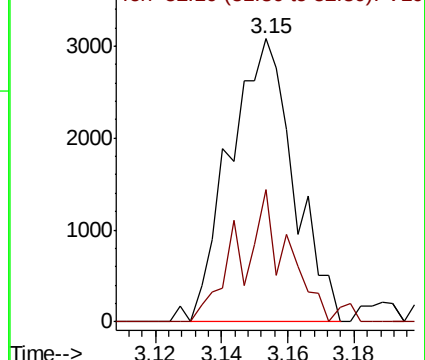
50 100

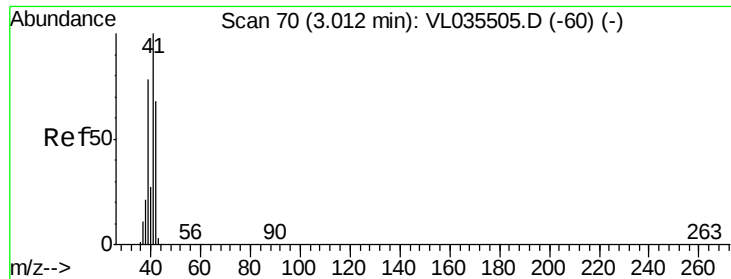
52 46.7 27.7 41.5#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 1.003 ppbv

RT: 3.03 min Scan# 75

Delta R.T. 0.02 min

Lab File: VL035536.D

Acq: 3 Sep 2020 18:32

Instrument :

MSVOA_L

ClientSampleId :

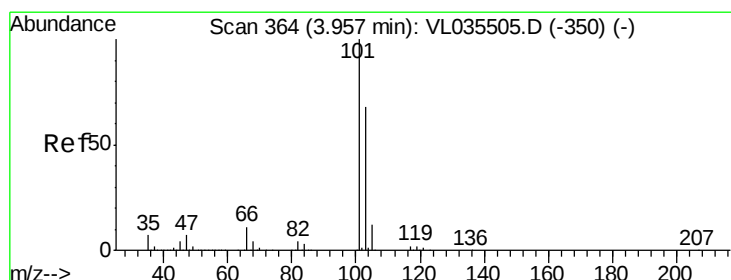
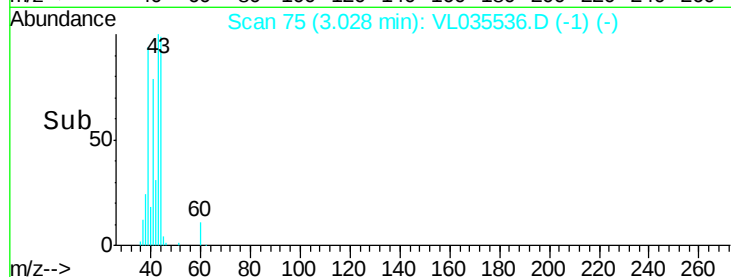
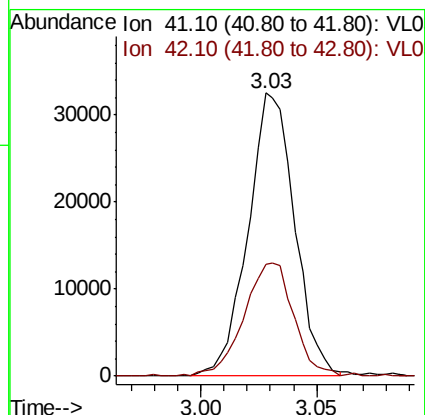
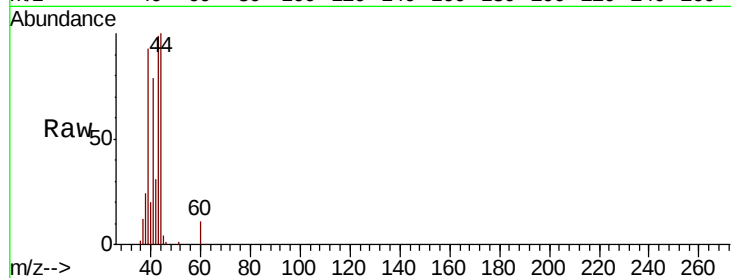
IA-2DL

Tot Ion: 41 Resp: 45476

Ion Ratio Lower Upper

41 100

42 42.8 56.3 84.5#



#11

Trichlorofluoromethane

Concen: 0.149 ppbv

RT: 3.97 min Scan# 367

Delta R.T. 0.01 min

Lab File: VL035536.D

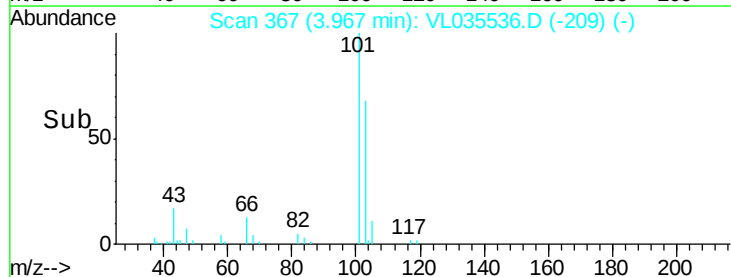
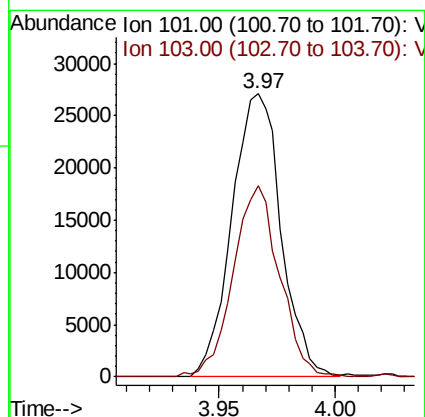
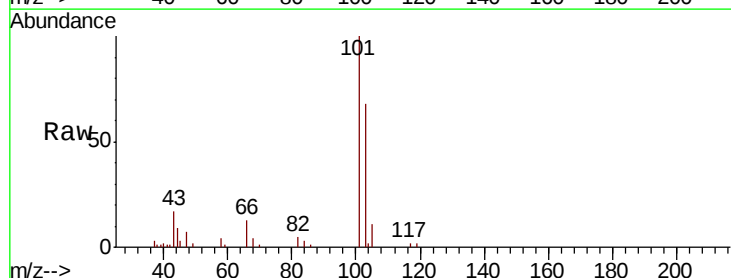
Acq: 3 Sep 2020 18:32

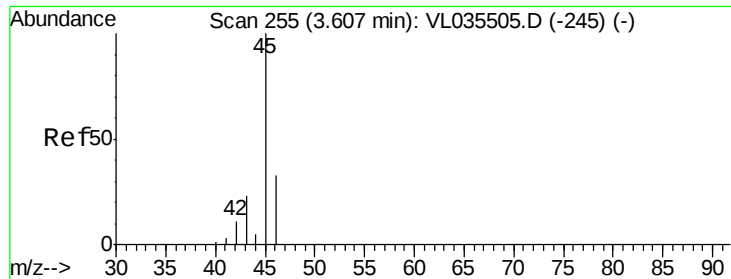
Tgt Ion: 101 Resp: 40079

Ion Ratio Lower Upper

101 100

103 66.8 54.5 81.7





#13

Ethanol

Concen: 15.228 ppbv

RT: 3.62 min Scan# 259

Delta R.T. 0.01 min

Lab File: VL035536.D

Acq: 3 Sep 2020 18:32

Instrument :

MSVOA_L

ClientSampleId :

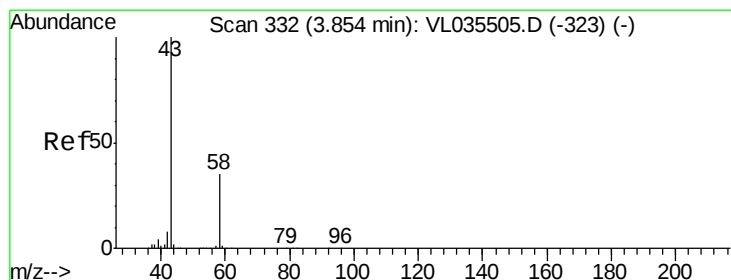
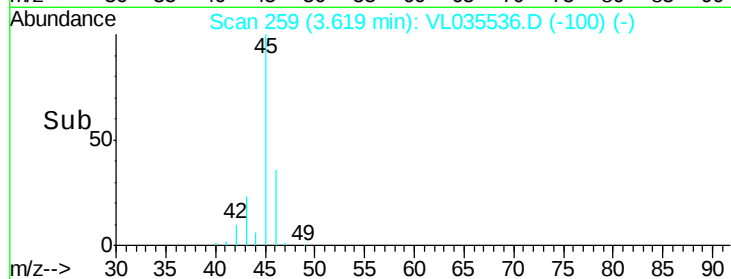
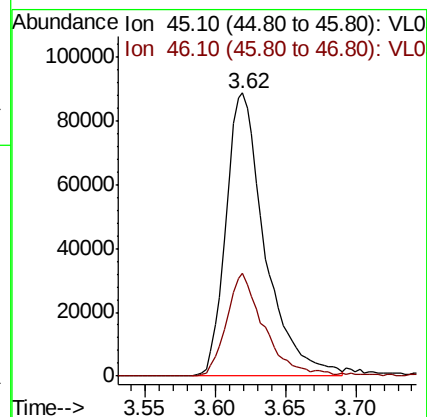
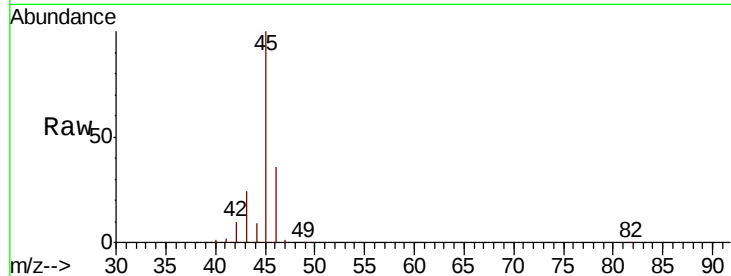
IA-2DL

Tot Ion: 45 Resp: 171175

Ion Ratio Lower Upper

45 100

46 35.8 15.2 60.6



#15

Acetone

Concen: 17.383 ppbv

RT: 3.86 min Scan# 334

Delta R.T. 0.01 min

Lab File: VL035536.D

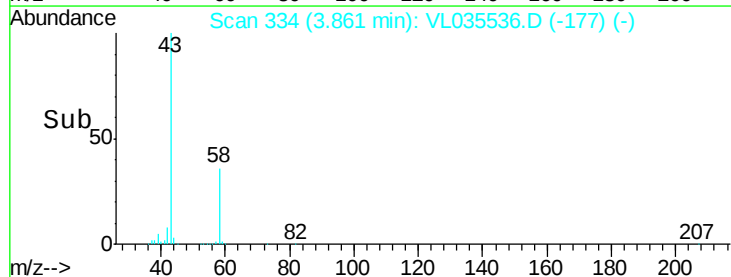
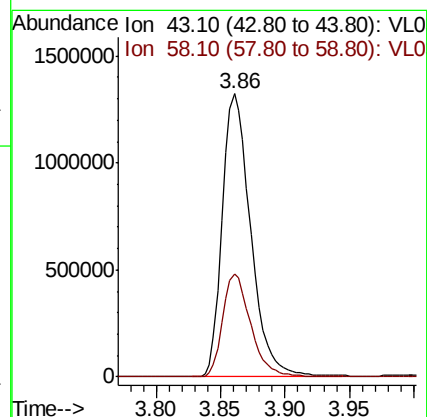
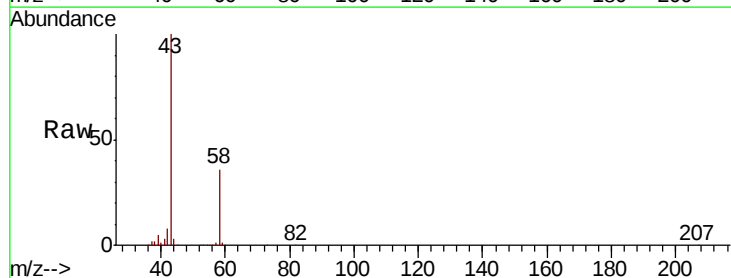
Acq: 3 Sep 2020 18:32

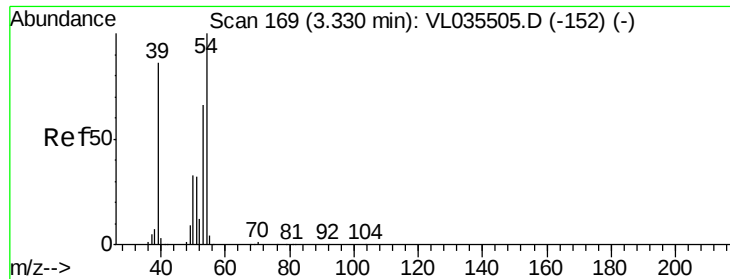
Tgt Ion: 43 Resp: 2038616

Ion Ratio Lower Upper

43 100

58 35.9 28.4 42.6

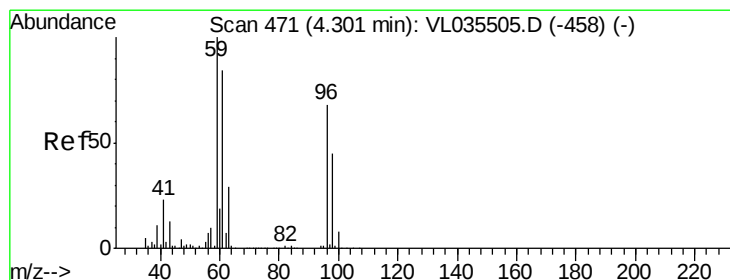
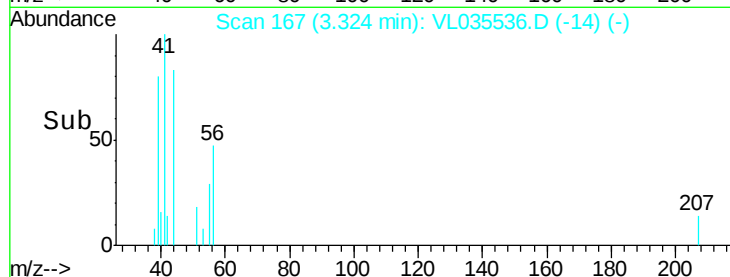
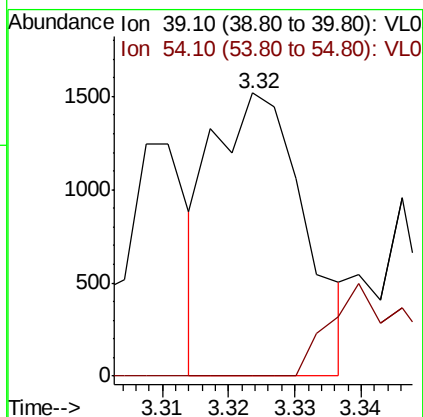
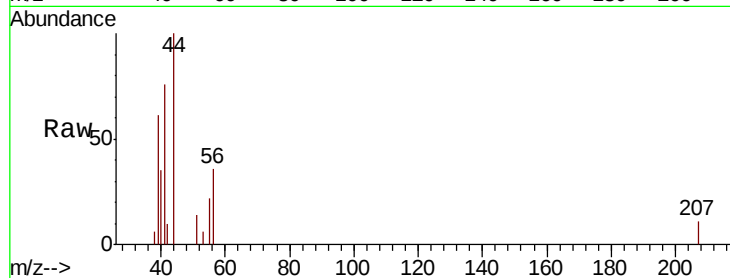




#16
1,3-Butadiene
Concen: 0.034 ppbv
RT: 3.32 min Scan# 167
Delta R.T. -0.01 min
Lab File: VL035536.D
Acq: 3 Sep 2020 18:32

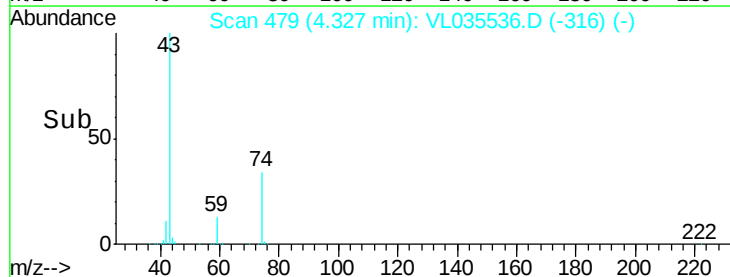
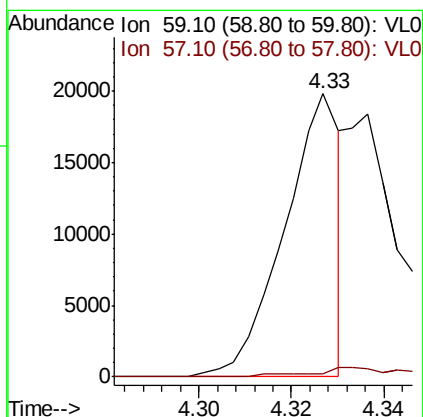
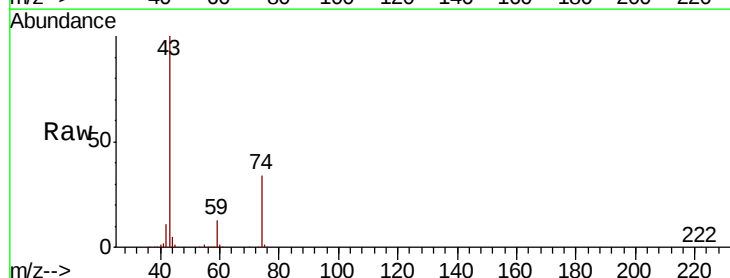
Instrument :
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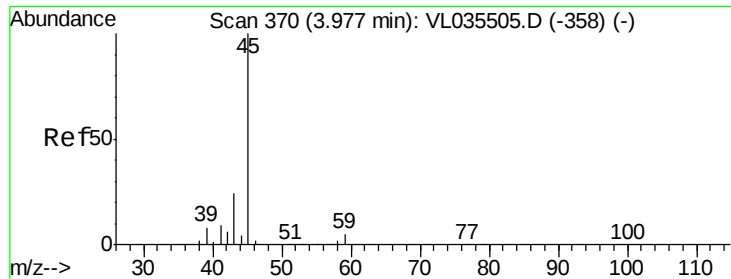
Tot Ion: 39 Resp: 1467
Ion Ratio Lower Upper
39 100
54 31.6 88.4 132.6#



#17
tert-Butyl alcohol
Concen: 0.116 ppbv
RT: 4.33 min Scan# 479
Delta R.T. 0.03 min
Lab File: VL035536.D
Acq: 3 Sep 2020 18:32

Tgt Ion: 59 Resp: 16592
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#

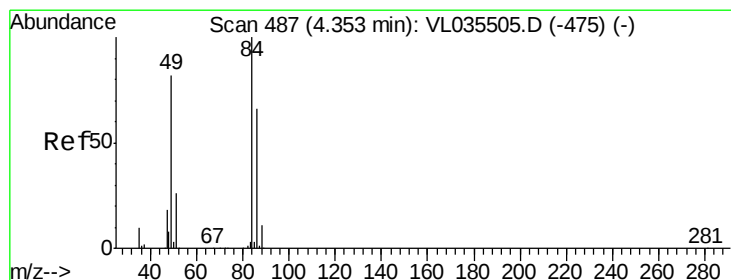
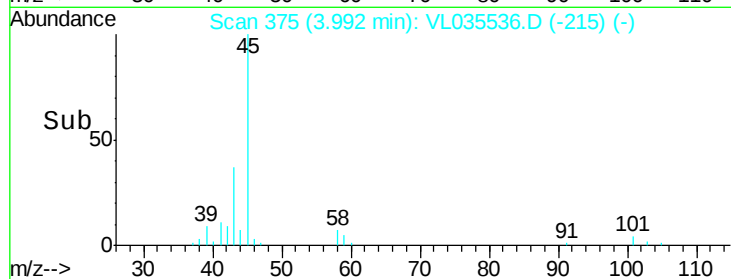
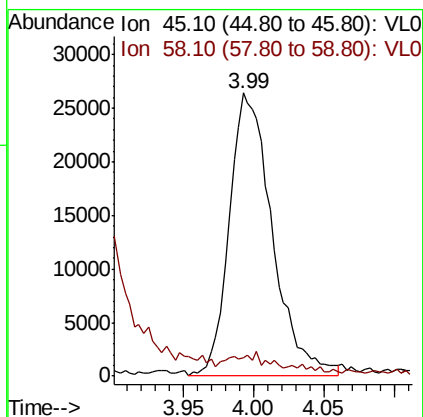
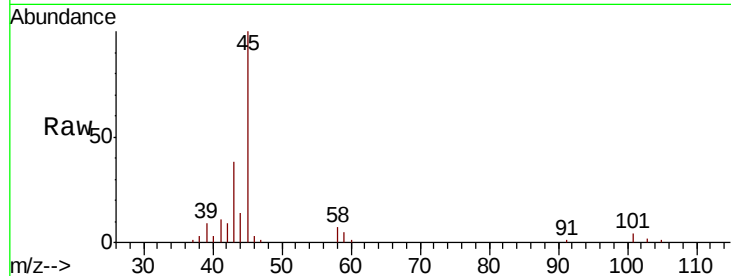




#19
Isopropyl Alcohol
Concen: 0.807 ppbv
RT: 3.99 min Scan# 375
Delta R.T. 0.02 min
Lab File: VL035536.D
Acq: 3 Sep 2020 18:32

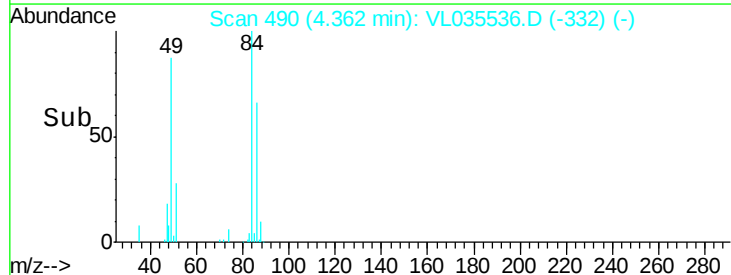
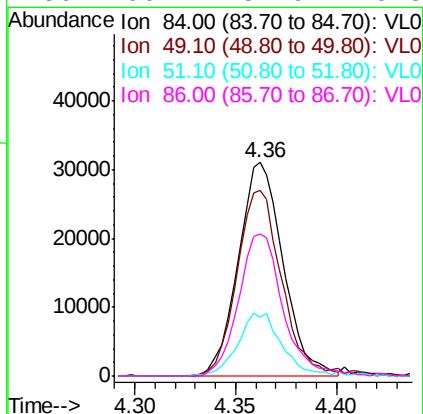
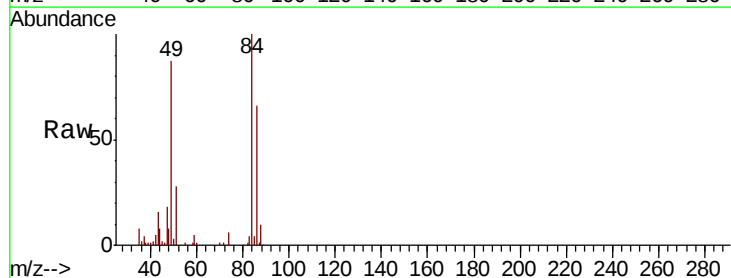
Instrument :
MSVOA_L
ClientSampleID :
IA-2DL

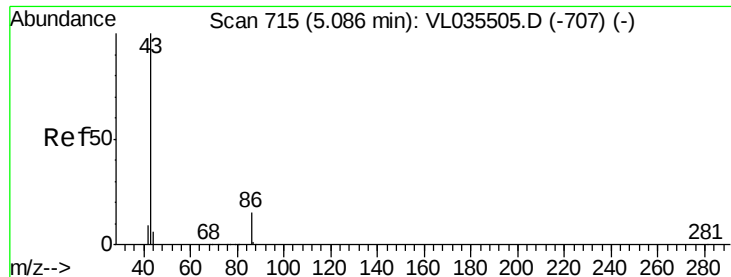
Tot Ion: 45 Resp: 56459
Ion Ratio Lower Upper
45 100
58 0.0 2.0 3.0#



#20
Methylene Chloride
Concen: 0.555 ppbv
RT: 4.36 min Scan# 490
Delta R.T. 0.01 min
Lab File: VL035536.D
Acq: 3 Sep 2020 18:32

Tgt Ion: 84 Resp: 48445
Ion Ratio Lower Upper
84 100
49 87.0 65.4 98.0
51 27.5 21.5 32.3
86 66.4 52.9 79.3





#23

Vinyl Acetate

Concen: 0.090 ppbv

RT: 5.09 min Scan# 715

Delta R.T. -0.00 min

Lab File: VL035536.D

Acq: 3 Sep 2020 18:32

Instrument :

MSVOA_L

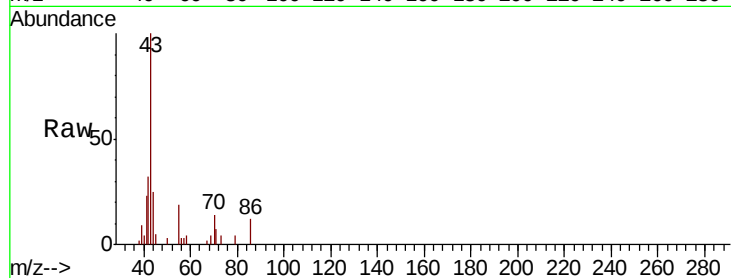
ClientSampleId :

IA-2DL

Tot Ion: 43 Resp: 13591

Ion Ratio Lower Upper

43	100		
86	12.1	10.6	16.0
42	28.4	7.5	11.3#
44	6.3	4.4	6.6

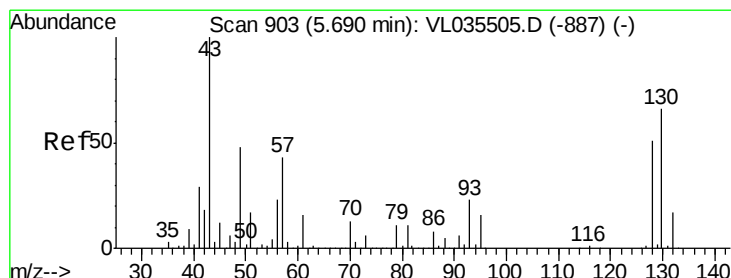
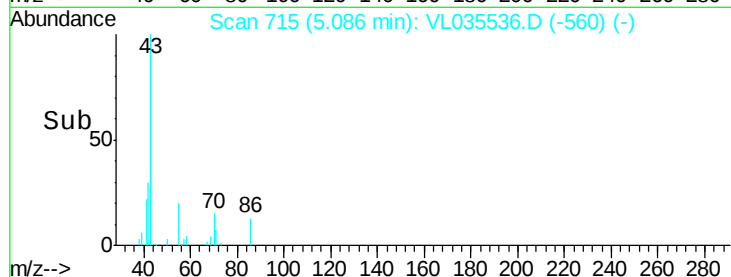
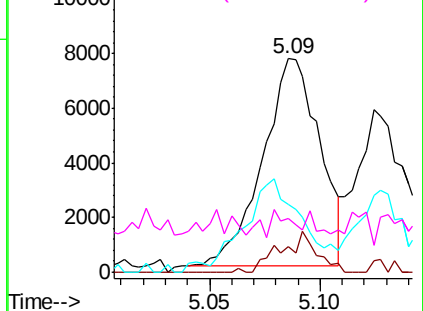


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 0.149 ppbv

RT: 5.71 min Scan# 909

Delta R.T. 0.02 min

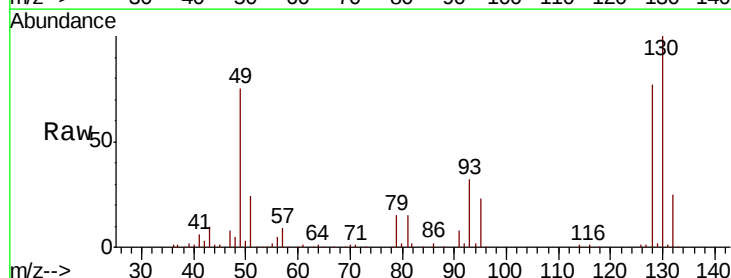
Lab File: VL035536.D

Acq: 3 Sep 2020 18:32

Tgt Ion: 43 Resp: 30879

Ion Ratio Lower Upper

43	100		
45	9.8	8.4	12.6
61	9.4	10.6	16.0#
70	10.4	9.4	14.2

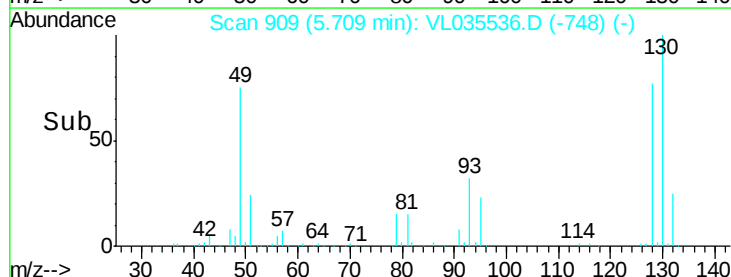
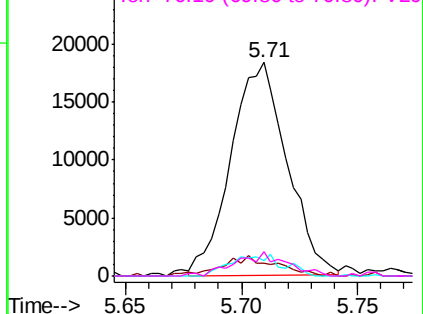


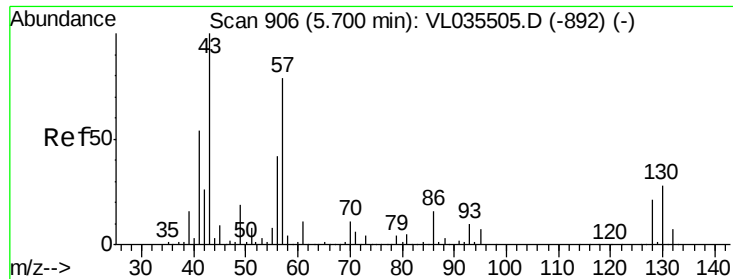
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

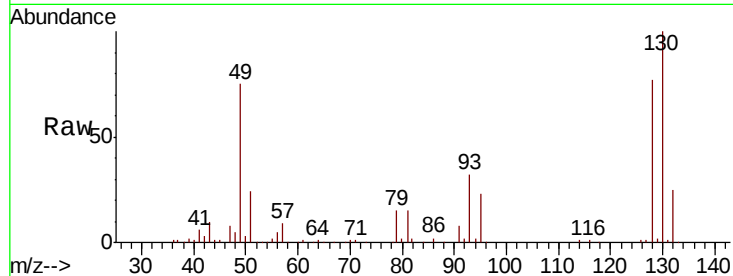




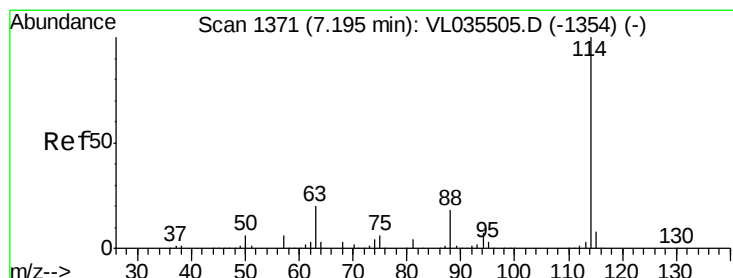
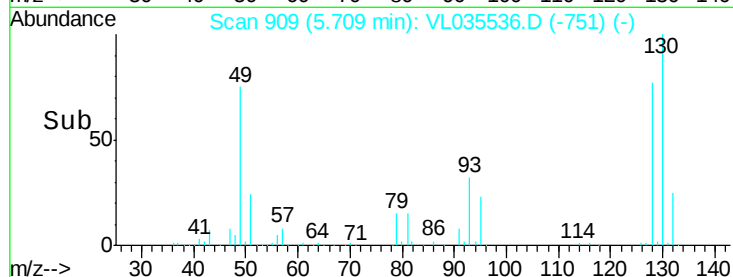
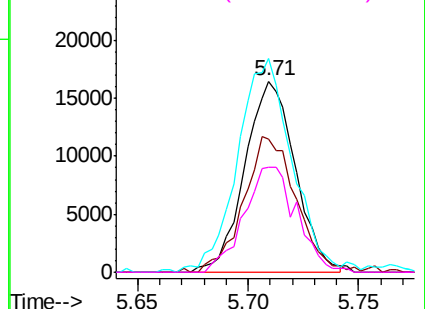
#26
Hexane
Concen: 0.223 ppbv
RT: 5.71 min Scan# 909
Delta R.T. 0.01 min
Lab File: VL035536.D
Acq: 3 Sep 2020 18:32

Instrument :
MSVOA_L
ClientSampled :
IA-2DL

Tot Ion: 57 Resp: 26185
Ion Ratio Lower Upper
57 100
41 74.4 55.9 83.9
43 121.5 141.8 212.8#
56 57.6 41.8 62.8

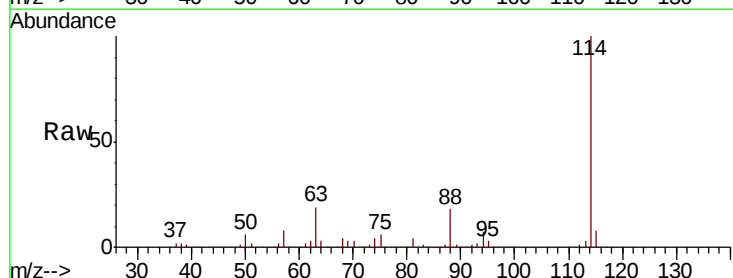


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

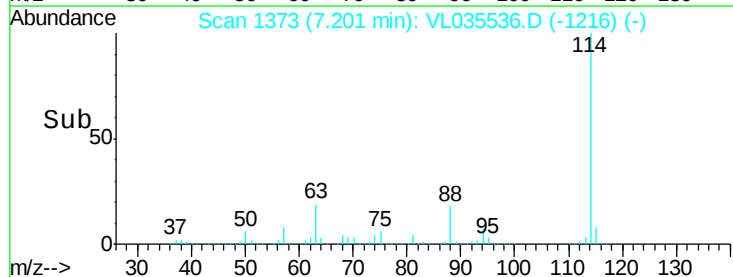
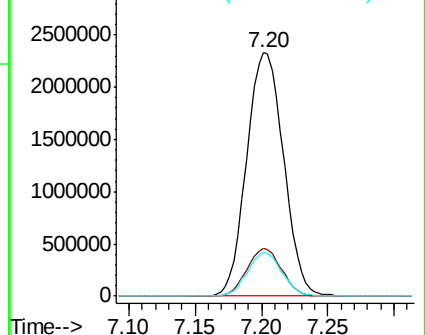


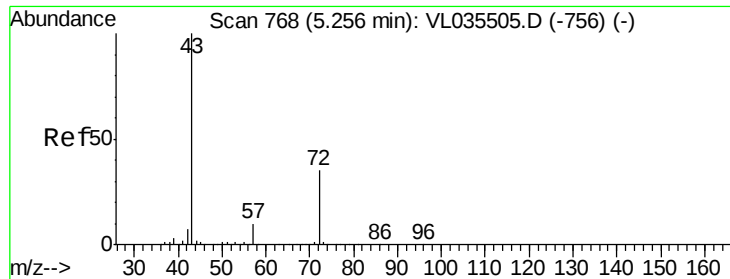
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.20 min Scan# 1373
Delta R.T. 0.01 min
Lab File: VL035536.D
Acq: 3 Sep 2020 18:32

Tgt Ion:114 Resp: 4515849
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): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0

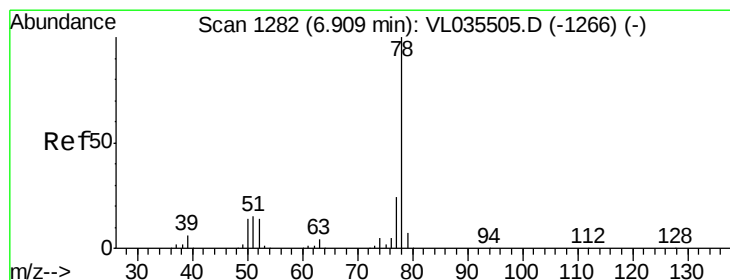
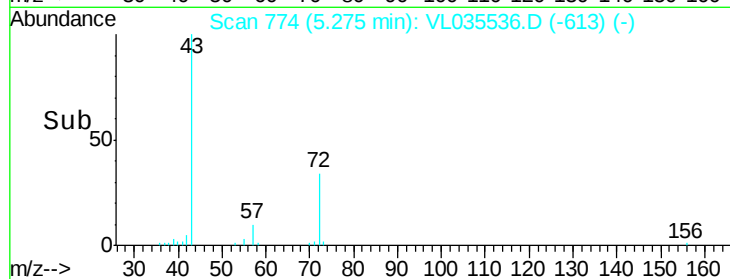
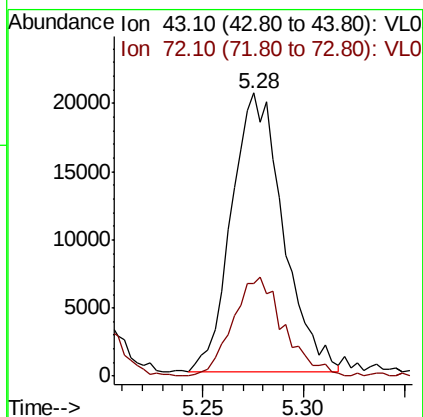
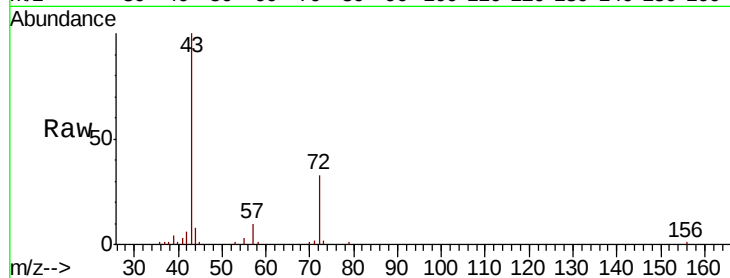




#34
2-Butanone
Concen: 0.274 ppbv
RT: 5.28 min Scan# 774
Delta R.T. 0.02 min
Lab File: VL035536.D
Acq: 3 Sep 2020 18:32

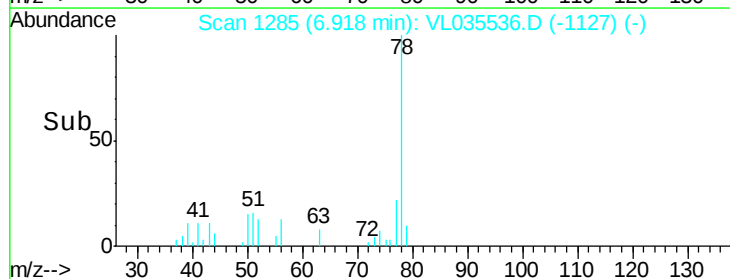
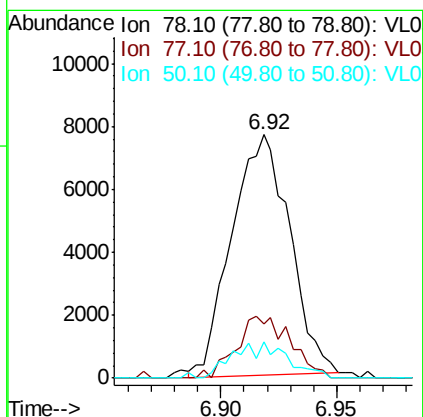
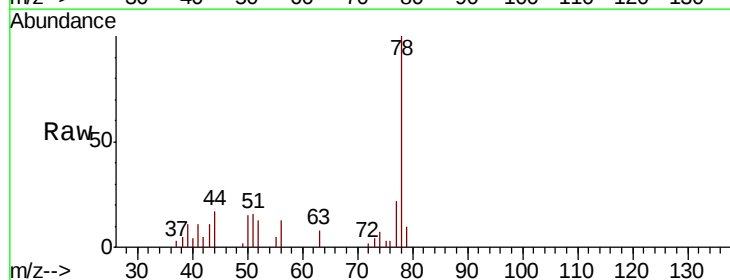
Instrument :
MSVOA_L
ClientSampleId :
IA-2DL

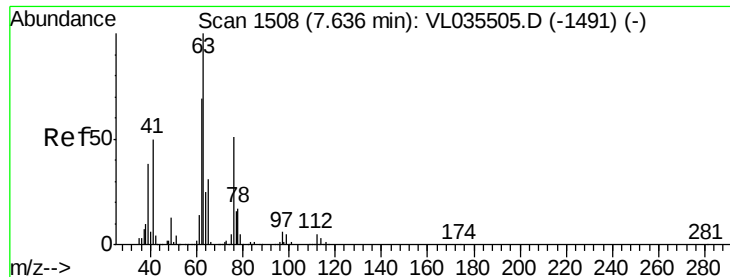
Tot Ion: 43 Resp: 36685
Ion Ratio Lower Upper
43 100
72 35.3 27.7 41.5



#36
Benzene
Concen: 0.046 ppbv
RT: 6.92 min Scan# 1285
Delta R.T. 0.01 min
Lab File: VL035536.D
Acq: 3 Sep 2020 18:32

Tgt Ion: 78 Resp: 13382
Ion Ratio Lower Upper
78 100
77 23.0 19.3 28.9
50 15.0 11.0 16.6





#39

1,2-Dichloropropane

Concen: 8.390 ppbv

RT: 7.20 min Scan# 1373

Delta R.T. -0.43 min

Lab File: VL035536.D

Acq: 3 Sep 2020 18:32

Instrument :

MSVOA_L

ClientSampled :

IA-2DL

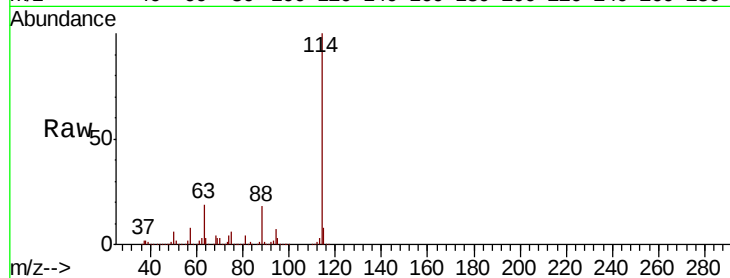
Tot Ion: 63 Resp: 828490

Ion Ratio Lower Upper

63 100

41 0.0 40.0 60.0#

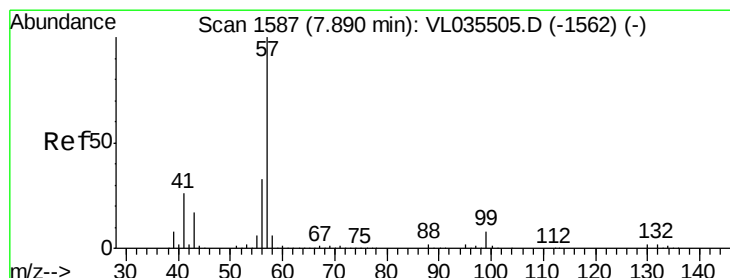
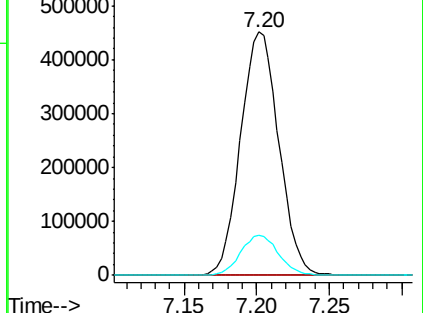
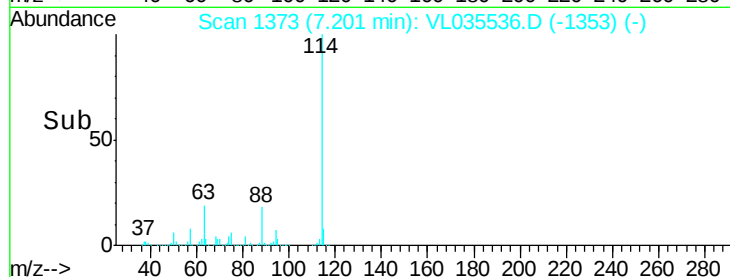
62 16.6 55.4 83.0#



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



#44

2,2,4-Trimethylpentane

Concen: 0.047 ppbv

RT: 7.90 min Scan# 1590

Delta R.T. 0.01 min

Lab File: VL035536.D

Acq: 3 Sep 2020 18:32

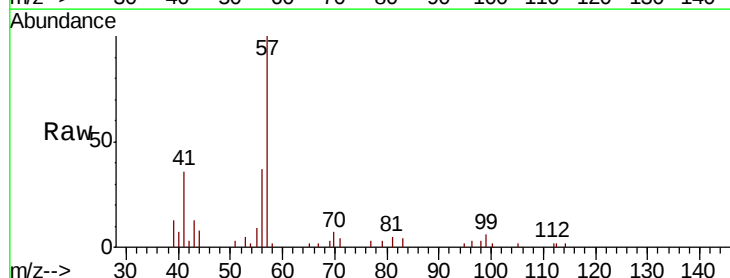
Tgt Ion: 57 Resp: 18078

Ion Ratio Lower Upper

57 100

41 36.0 20.5 30.7#

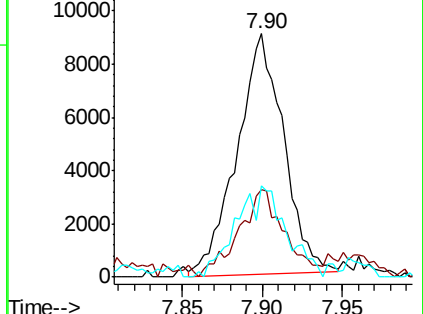
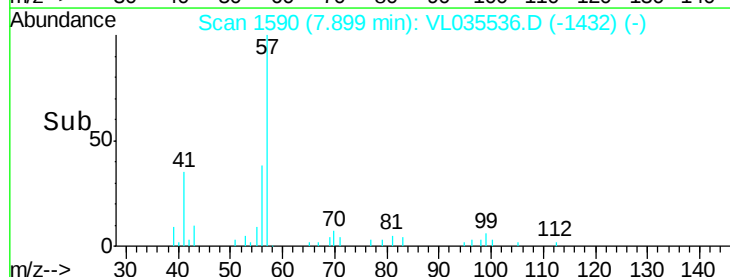
56 40.6 25.3 37.9#

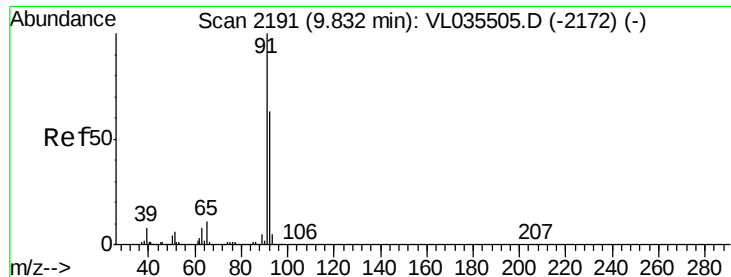


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#53

Toluene

Concen: 0.270 ppbv

RT: 9.84 min Scan# 2193

Delta R.T. 0.01 min

Lab File: VL035536.D

Acq: 3 Sep 2020 18:32

Instrument :

MSVOA_L

ClientSampleId :

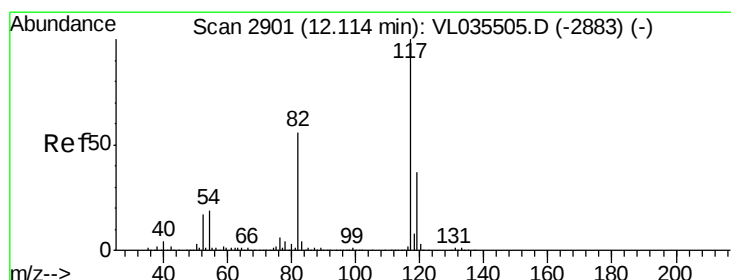
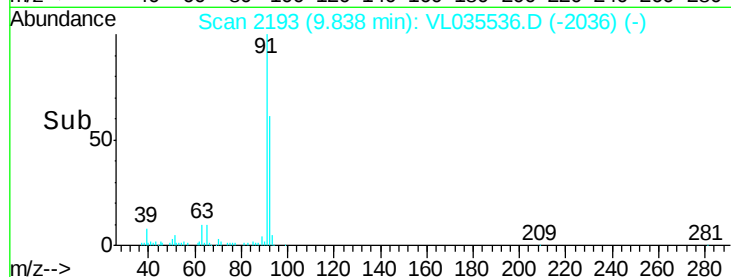
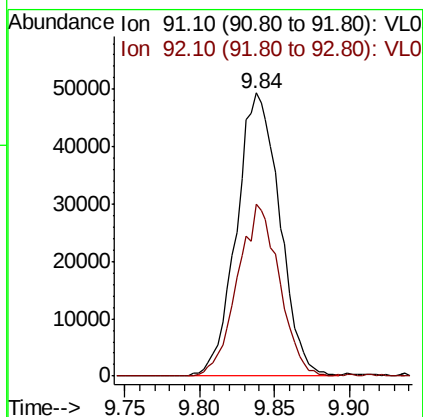
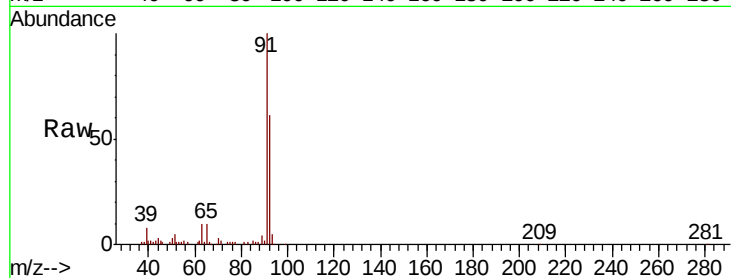
IA-2DL

Tot Ion: 91 Resp: 99355

Ion Ratio Lower Upper

91 100

92 59.1 49.8 74.8



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.12 min Scan# 2904

Delta R.T. 0.01 min

Lab File: VL035536.D

Acq: 3 Sep 2020 18:32

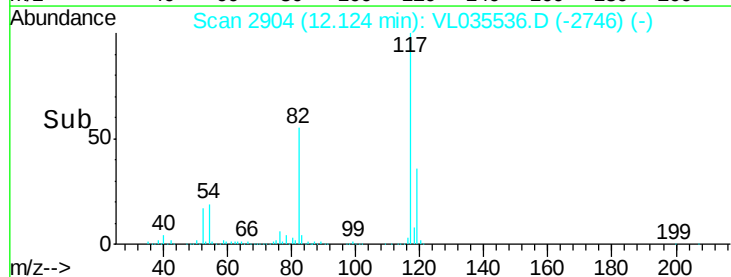
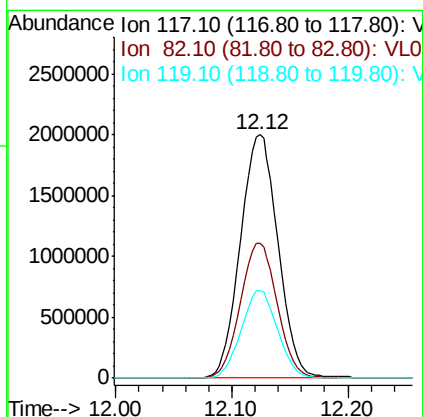
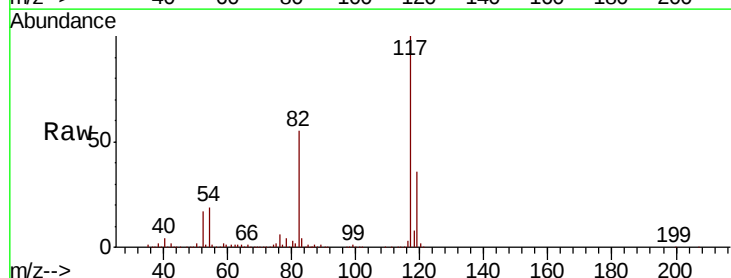
Tgt Ion: 117 Resp: 4509791

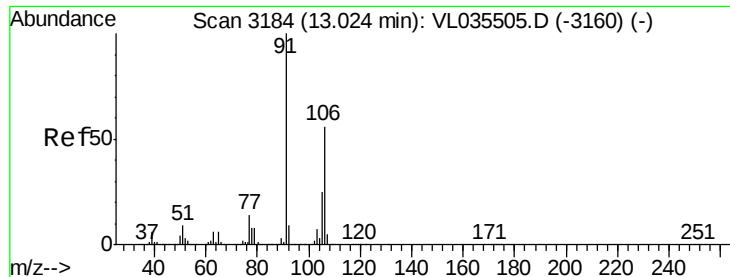
Ion Ratio Lower Upper

117 100

82 54.8 41.6 62.4

119 35.0 29.3 43.9

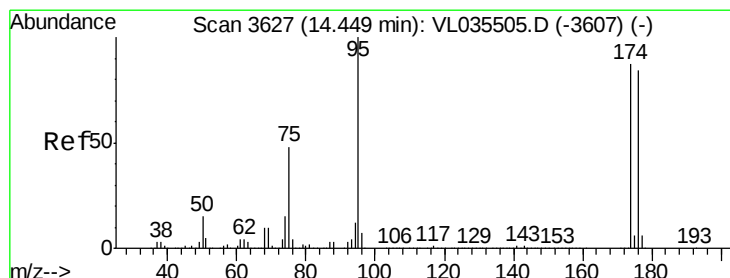
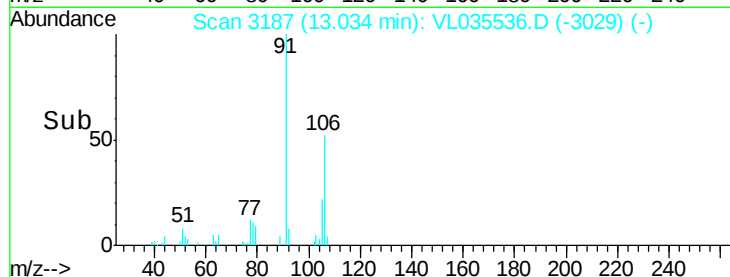
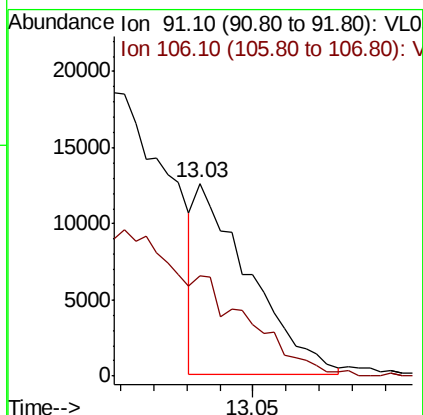
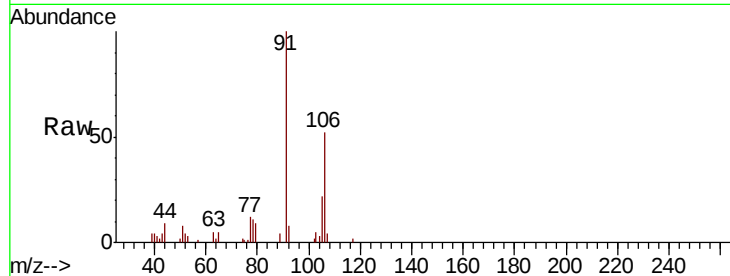




#59
m/p-Xylene
Concen: 0.037 ppbv
RT: 13.03 min Scan# 3187
Delta R.T. 0.01 min
Lab File: VL035536.D
Acq: 3 Sep 2020 18:32

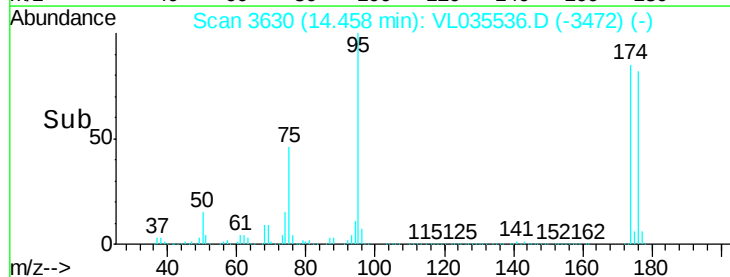
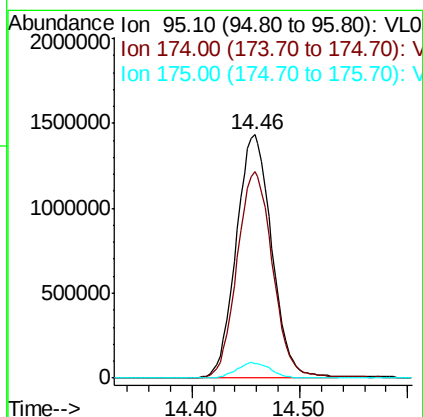
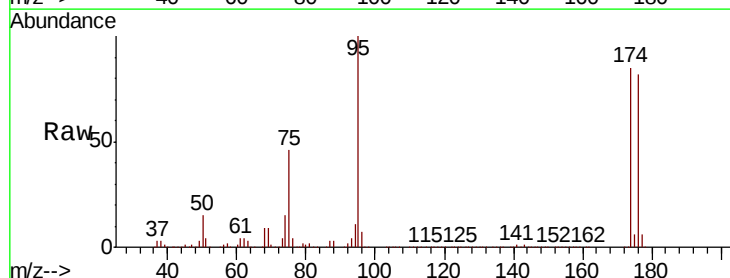
Instrument :
MSVOA_L
ClientSampled :
IA-2DL

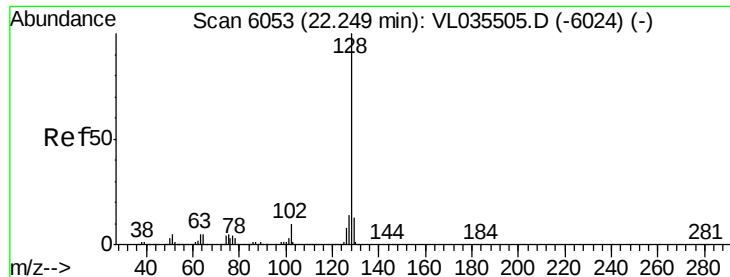
Tot Ion: 91 Resp: 14215
Ion Ratio Lower Upper
91 100
106 0.0 43.4 65.2#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.261 ppbv
RT: 14.46 min Scan# 3630
Delta R.T. 0.01 min
Lab File: VL035536.D
Acq: 3 Sep 2020 18:32

Tgt Ion: 95 Resp: 3286335
Ion Ratio Lower Upper
95 100
174 86.0 69.6 104.4
175 6.2 5.1 7.7





#79

Naphthalene

Concen: 0.101 ppbv

RT: 22.27 min Scan# 6060

Delta R.T. 0.02 min

Lab File: VL035536.D

Acq: 3 Sep 2020 18:32

Instrument :

MSVOA_L

ClientSampleId :

IA-2DL

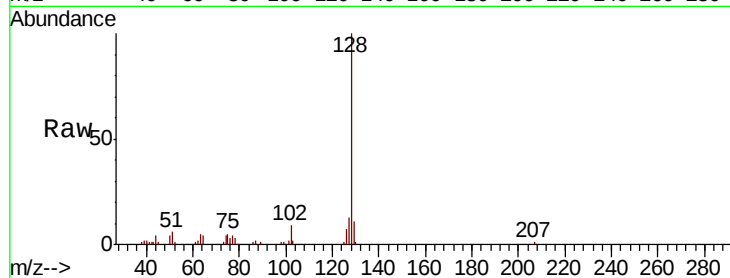
Tot Ion:128 Resp: 56516

Ion Ratio Lower Upper

128 100

127 13.1 11.4 17.2

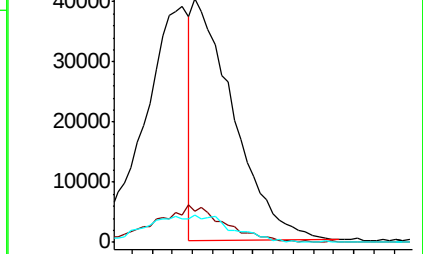
129 11.2 10.5 15.7



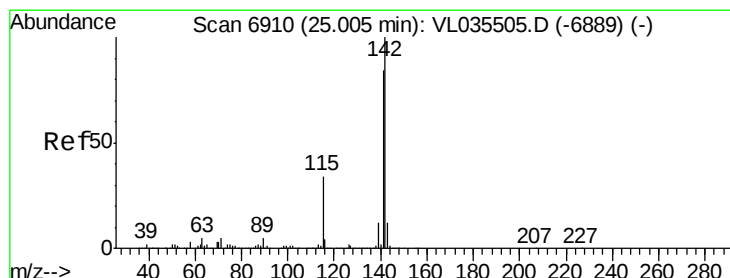
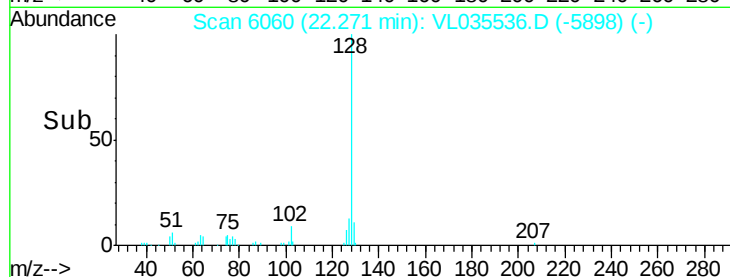
Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



Time-->



#80

Naphthalene, 2-methyl-

Concen: 0.050 ppbv

RT: 25.02 min Scan# 6916

Delta R.T. 0.02 min

Lab File: VL035536.D

Acq: 3 Sep 2020 18:32

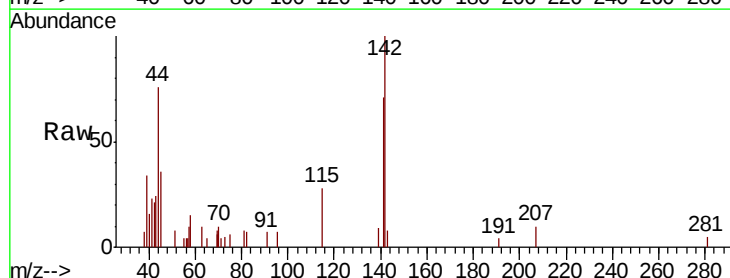
Tgt Ion:142 Resp: 9617

Ion Ratio Lower Upper

142 100

141 85.8 67.6 101.4

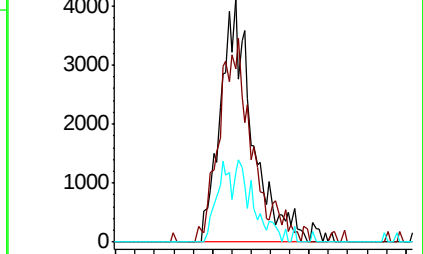
115 34.1 25.8 38.8



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



Time-->

