

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN050520\
 Data File : VN061293.D
 Acq On : 5 May 2020 15:41
 Operator : JC/MD
 Sample : L2456-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 06 03:48:46 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N042720W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 05 07:01:08 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	100841	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	180894	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	173912	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	77660	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	83027	52.03	ug/l	0.00
Spiked Amount			Recovery	=	104.06%	
35) Dibromofluoromethane	7.55	113	52034	48.64	ug/l	0.00
Spiked Amount			Recovery	=	97.28%	
50) Toluene-d8	10.06	98	226743	52.00	ug/l	0.00
Spiked Amount			Recovery	=	104.00%	
62) 4-Bromofluorobenzene	12.38	95	84932	51.76	ug/l	0.00
Spiked Amount			Recovery	=	103.52%	

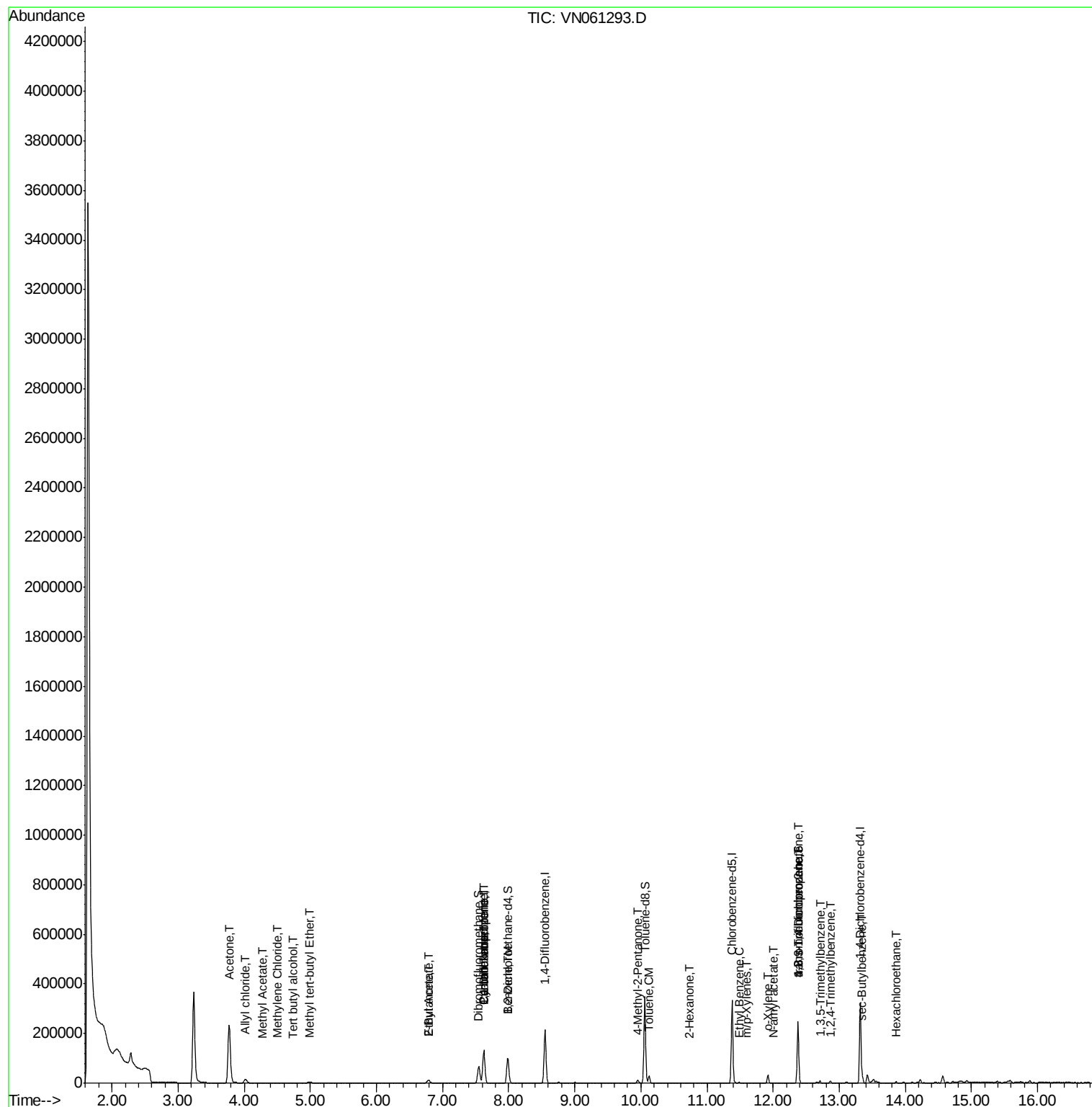
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	1198	5.605	ug/l #	72
14) Allyl chloride	4.02	41	2567	1.301	ug/l #	69
16) Acetone	3.77	43	402172	660.790	ug/l	99
18) Methyl Acetate	4.28	43	315	0.833	ug/l #	55
19) Methyl tert-butyl Ether	5.00	73	7651	1.882	ug/l	99
20) Methylene Chloride	4.49	84	308	0.248	ug/l #	29
25) 2-Butanone	6.79	43	19568	20.725	ug/l	99
31) Cyclohexane	7.62	56	2782	1.198	ug/l #	29
36) 1,1-Dichloropropene	7.62	75	9313	5.143	ug/l #	51
37) Ethyl Acetate	6.79	43	19568	9.218	ug/l #	71
38) Carbon Tetrachloride	7.63	117	10747	8.494	ug/l #	16
40) Benzene	8.00	78	6994	1.296	ug/l	100
51) 4-Methyl-2-Pentanone	9.95	43	9527	4.594	ug/l	96
52) Toluene	10.12	92	11410	3.511	ug/l	96
59) 2-Hexanone	10.73	43	970	0.643	ug/l	73
67) Ethyl Benzene	11.48	91	2720	0.421	ug/l	92
68) m/p-Xylenes	11.59	106	595	0.252	ug/l #	57
69) o-Xylene	11.92	106	8084	3.560	ug/l	92
74) N-amyl acetate	12.00	43	1060	0.367	ug/l #	46
76) 1,2,3-Trichloropropane	12.38	75	47150	28.798	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	4781	1.012	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.38	75	47150	73.131	ug/l #	8
84) 1,2,4-Trimethylbenzene	12.87	105	5575	1.145	ug/l	73
85) sec-Butylbenzene	13.35	105	14071	2.590	ug/l #	58
90) Hexachloroethane	13.86	117	154	7.882	ug/l #	14

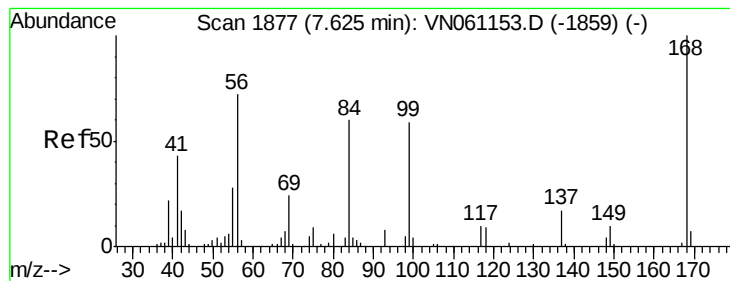
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N042720W.M
Quant Title : SW846 8260
QLast Update : Tue May 05 07:01:08 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1877

Delta R.T. 0.00 min

Lab File: VN061293.D

Acq: 5 May 2020 15:41

Instrument :

MSVOA_N

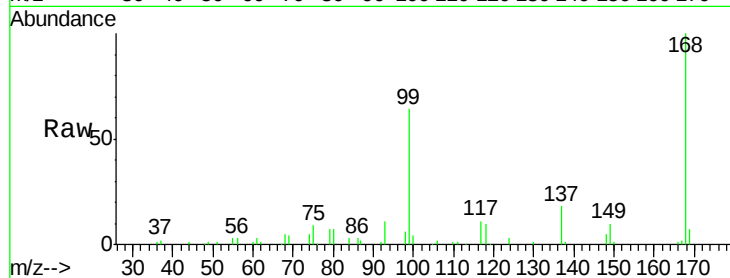
ClientSampled :

Tot Ion:168 Resp: 100841

Ion Ratio Lower Upper

168 100

99 63.5 51.2 76.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

40000

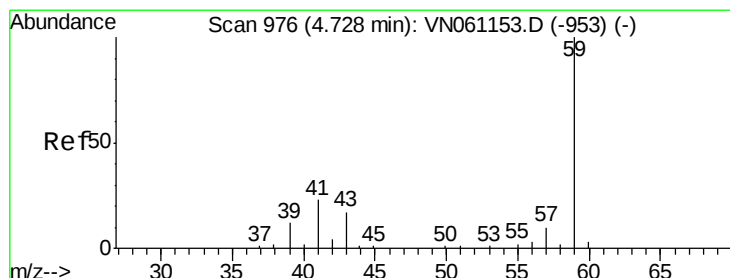
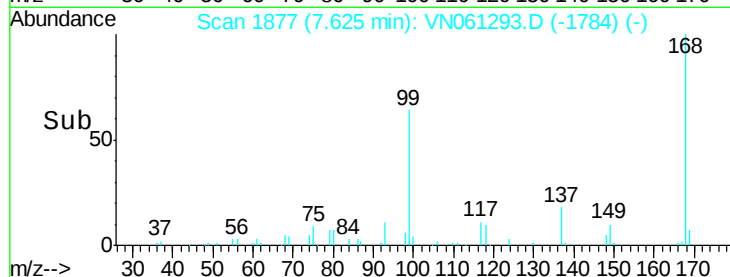
30000

20000

10000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 5.605 ug/l

RT: 4.73 min Scan# 978

Delta R.T. 0.01 min

Lab File: VN061293.D

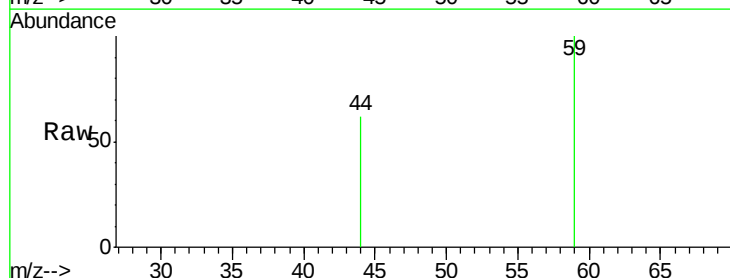
Acq: 5 May 2020 15:41

Tgt Ion: 59 Resp: 1198

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.73

400

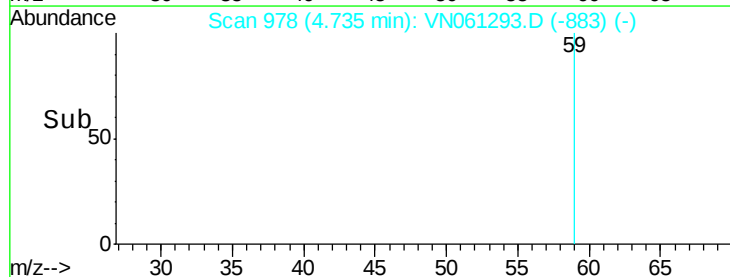
300

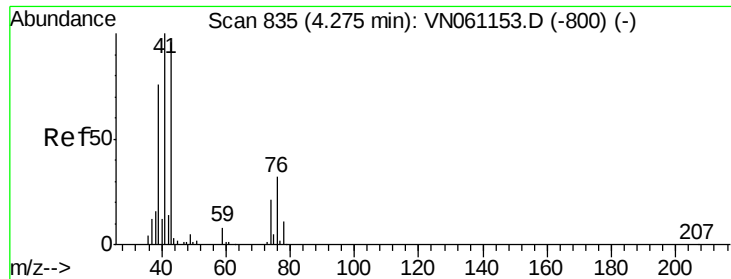
200

100

0

Time--> 4.70 4.75

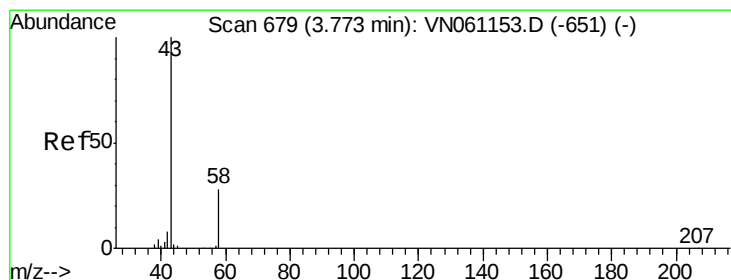
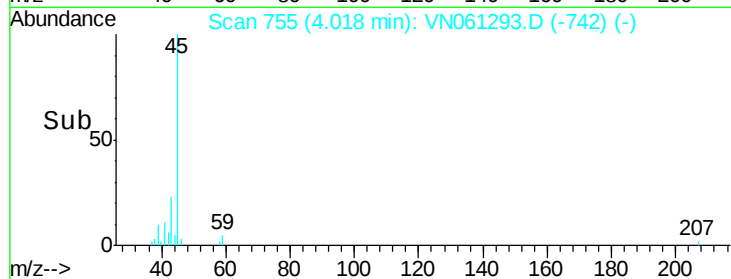
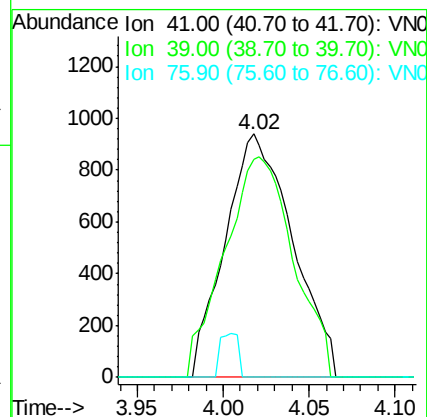
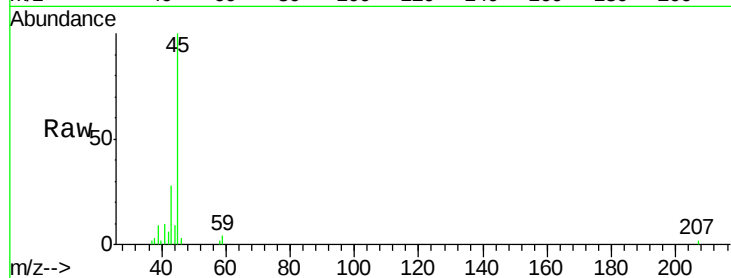




#14
Allvl chloride
Concen: 1.301 ug/l
RT: 4.02 min Scan# 755
Delta R.T. -0.26 min
Lab File: VN061293.D
Acq: 5 May 2020 15:41

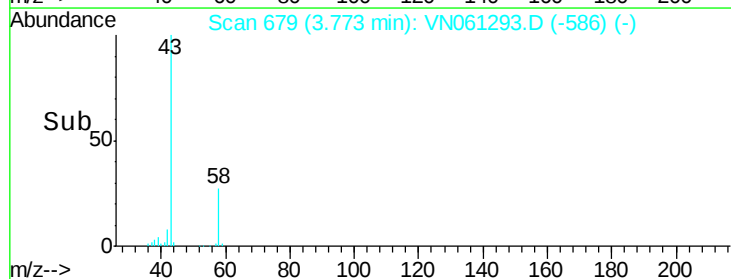
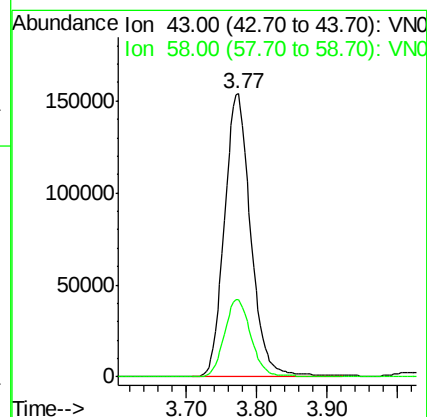
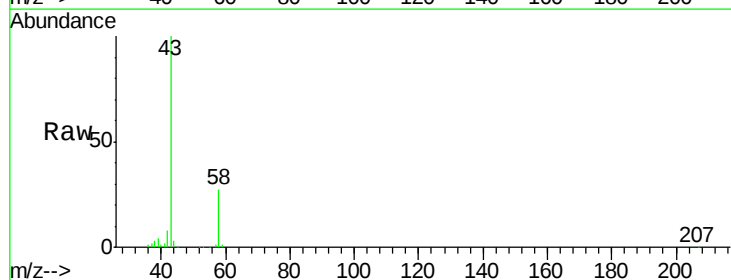
Instrument :
MSVOA_N
ClientSampled :

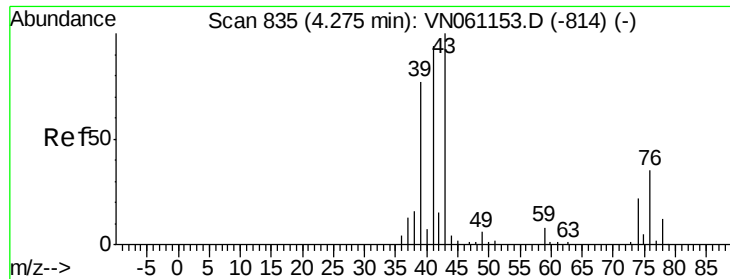
Tot Ion: 41 Resp: 2567
Ion Ratio Lower Upper
41 100
39 91.0 57.1 85.7#
76 4.9 24.3 36.5#



#16
Acetone
Concen: 660.790 ug/l
RT: 3.77 min Scan# 679
Delta R.T. 0.00 min
Lab File: VN061293.D
Acq: 5 May 2020 15:41

Tgt Ion: 43 Resp: 402172
Ion Ratio Lower Upper
43 100
58 27.1 22.2 33.2

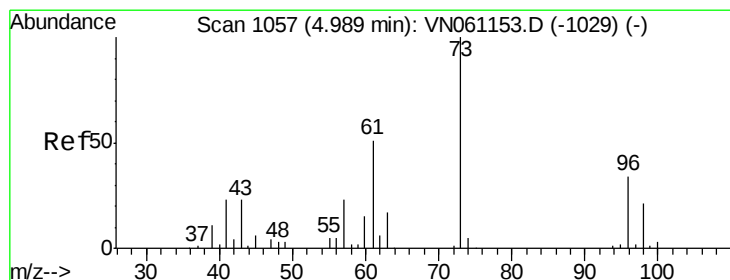
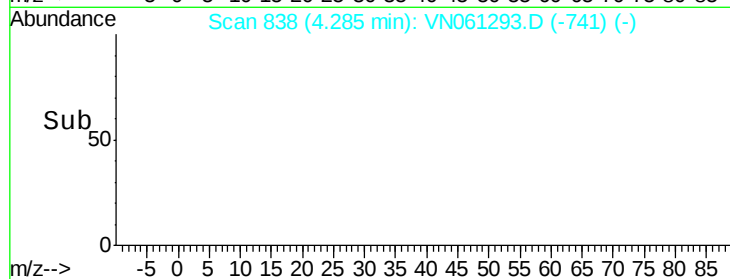
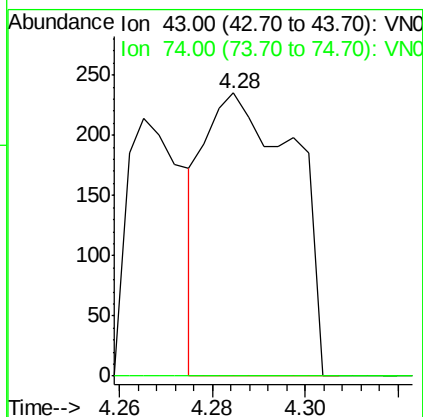
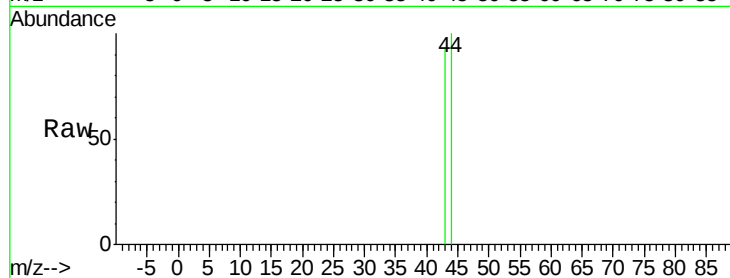




#18
Methyl Acetate
Concen: 0.833 ug/l
RT: 4.28 min Scan# 838
Delta R.T. 0.01 min
Lab File: VN061293.D
Acq: 5 May 2020 15:41

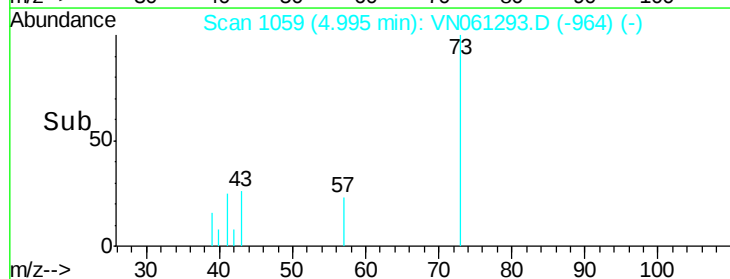
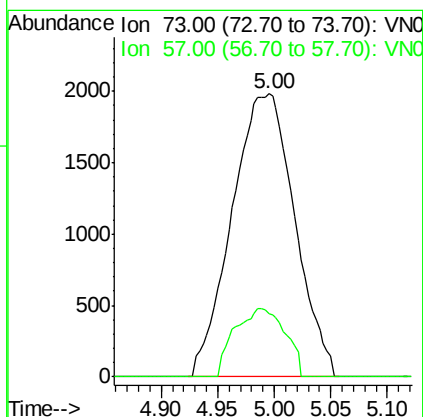
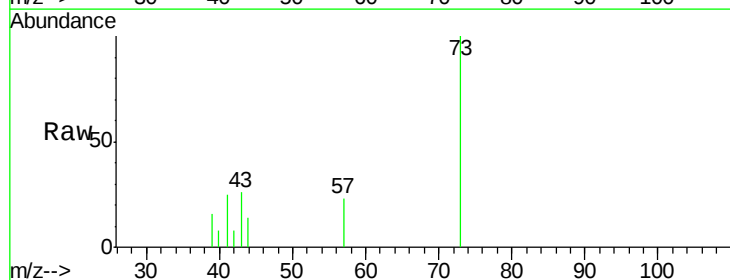
Instrument :
MSVOA_N
ClientSampled :

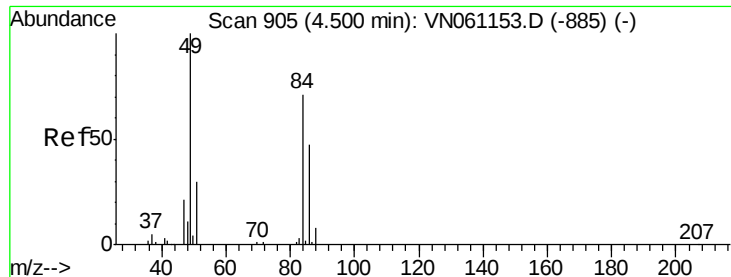
Tot Ion: 43 Resp: 315
Ion Ratio Lower Upper
43 100
74 0.0 17.0 25.4#



#19
Methyl tert-butyl Ether
Concen: 1.882 ug/l
RT: 5.00 min Scan# 1059
Delta R.T. 0.01 min
Lab File: VN061293.D
Acq: 5 May 2020 15:41

Tgt Ion: 73 Resp: 7651
Ion Ratio Lower Upper
73 100
57 22.6 18.3 27.5





#20

Methvlene Chloride

Concen: 0.248 ug/l

RT: 4.49 min Scan# 903

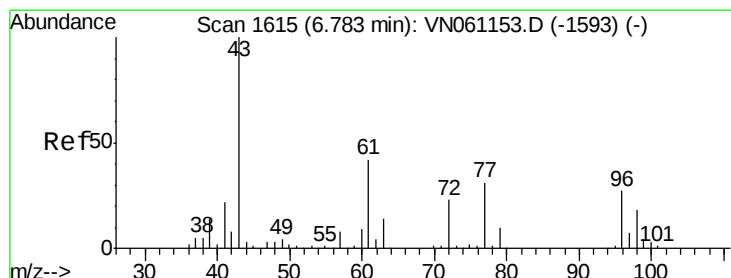
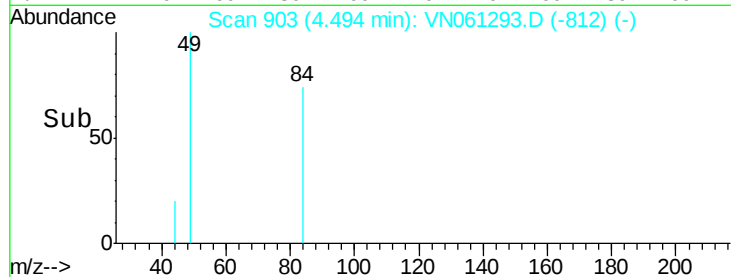
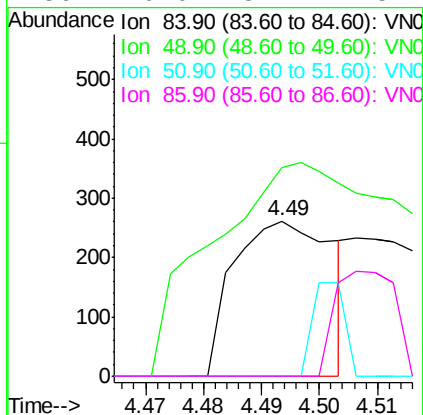
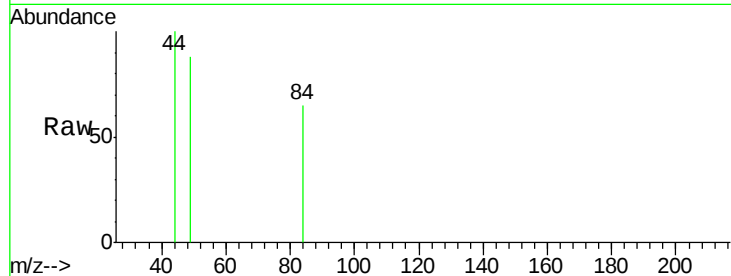
Delta R.T. -0.01 min

Lab File: VN061293.D

Acq: 5 May 2020 15:41

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:	84	Resp:	308
Ion	Ratio	Lower	Upper
84	100		
49	57.9	112.0	168.0#
51	0.0	33.6	50.4#
86	0.0	52.1	78.1#



#25

2-Butanone

Concen: 20.725 ug/l

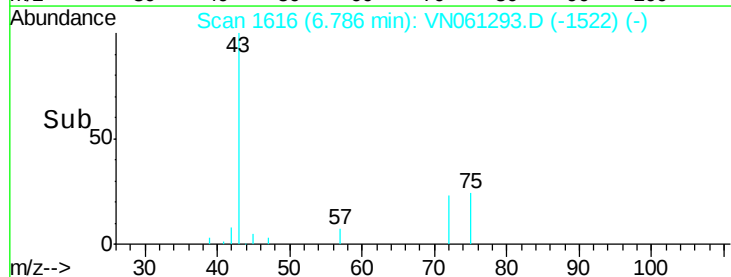
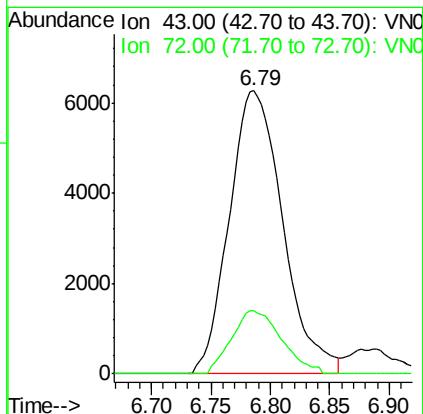
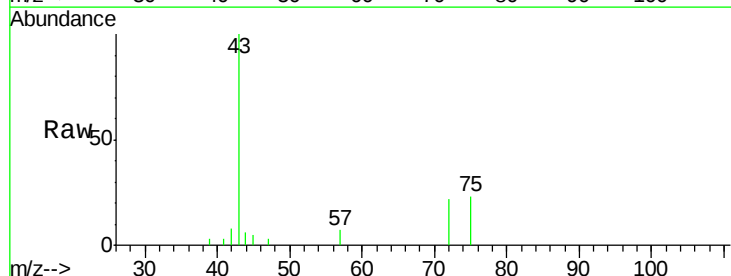
RT: 6.79 min Scan# 1616

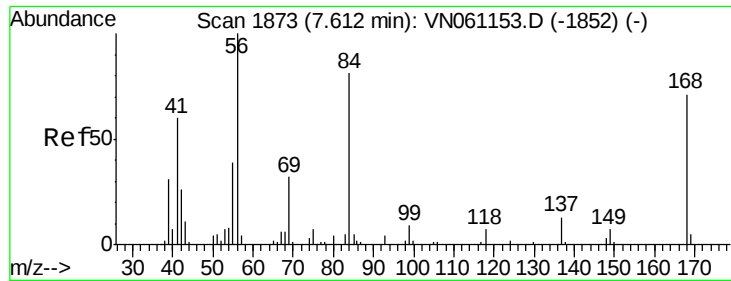
Delta R.T. 0.00 min

Lab File: VN061293.D

Acq: 5 May 2020 15:41

Tgt Ion:	43	Resp:	19568
Ion	Ratio	Lower	Upper
43	100		
72	22.2	18.2	27.4

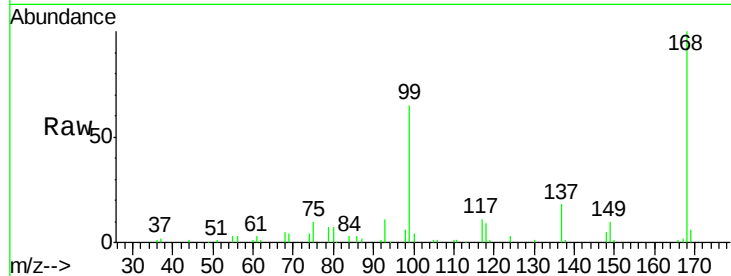




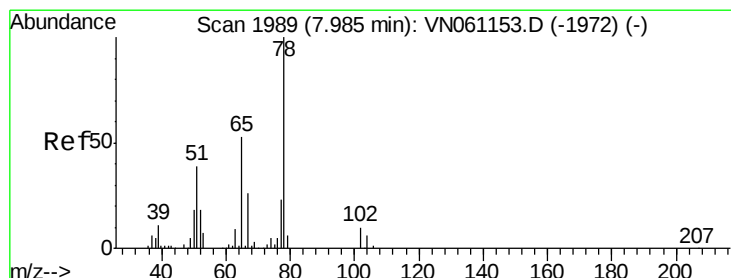
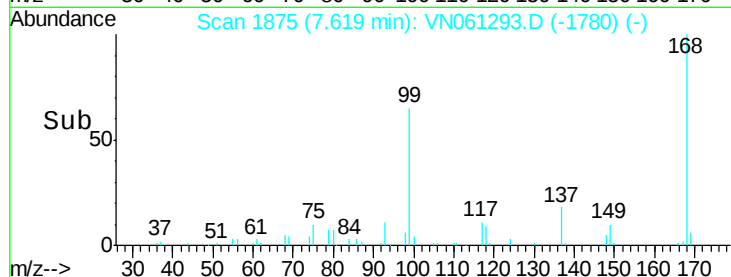
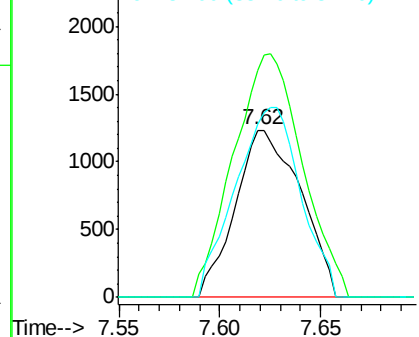
#31
Cyclohexane
Concen: 1.198 ug/l
RT: 7.62 min Scan# 1875
Delta R.T. 0.01 min
Lab File: VN061293.D
Acq: 5 May 2020 15:41

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 2782
Ion Ratio Lower Upper
56 100
69 135.7 25.7 38.5#
84 103.8 64.6 97.0#

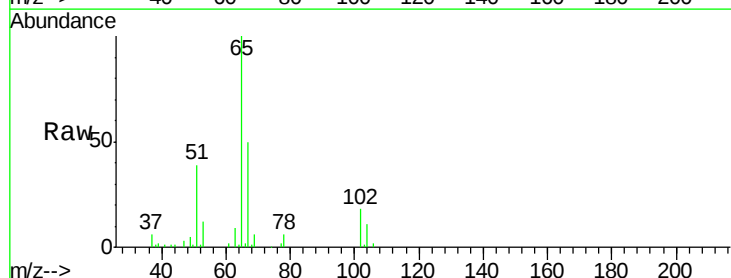


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

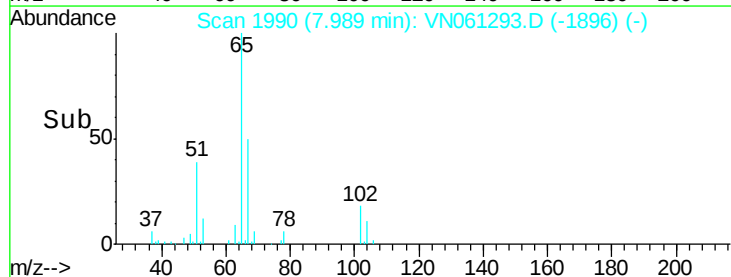
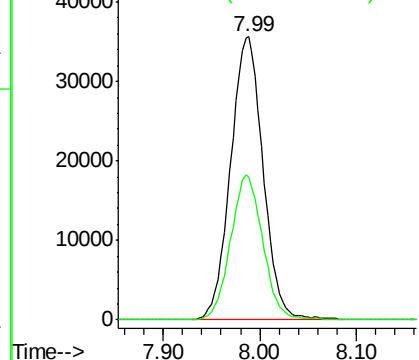


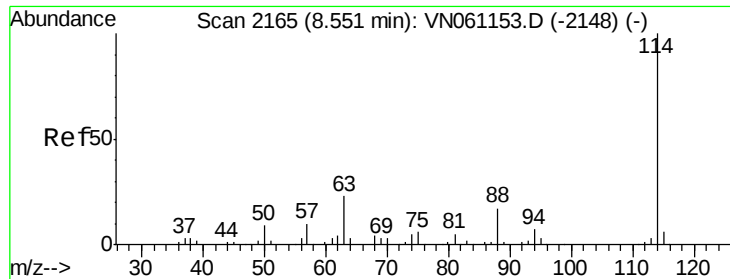
#33
1,2-Dichloroethane-d4
Concen: 52.034 ug/l
RT: 7.99 min Scan# 1990
Delta R.T. 0.00 min
Lab File: VN061293.D
Acq: 5 May 2020 15:41

Tgt Ion: 65 Resp: 83027
Ion Ratio Lower Upper
65 100
67 50.5 0.0 101.6



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

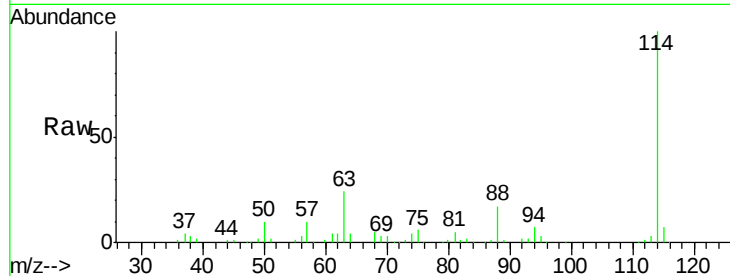




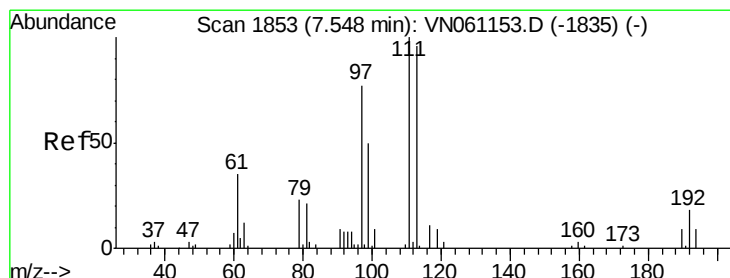
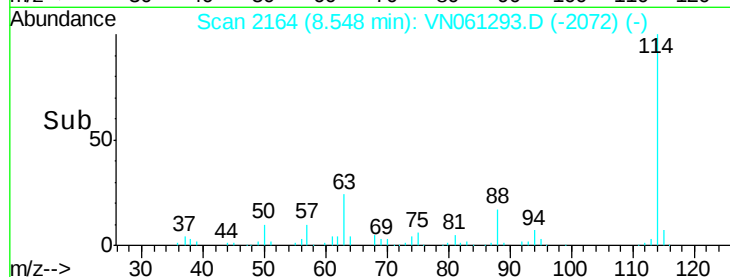
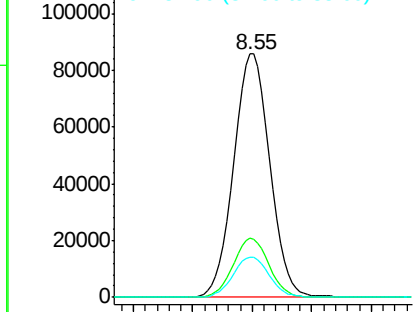
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2164
 Delta R.T. -0.00 min
 Lab File: VN061293.D
 Acq: 5 May 2020 15:41

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 180894
 Ion Ratio Lower Upper
 114 100
 63 24.1 0.0 46.6
 88 16.7 0.0 33.4

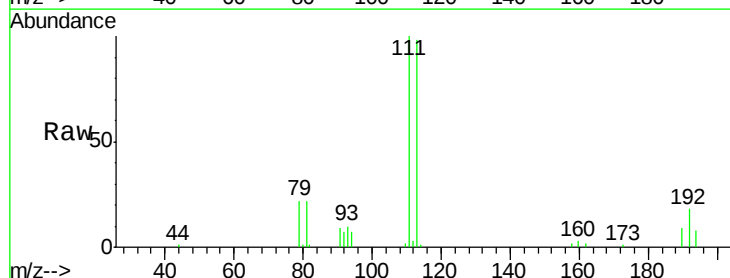


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VNO
 Ion 87.90 (87.60 to 88.60): VNO

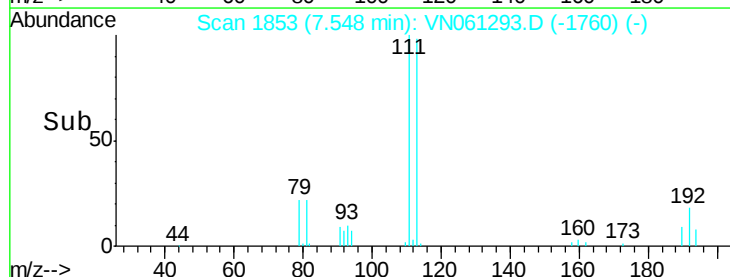
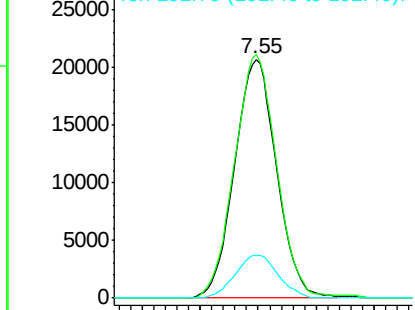


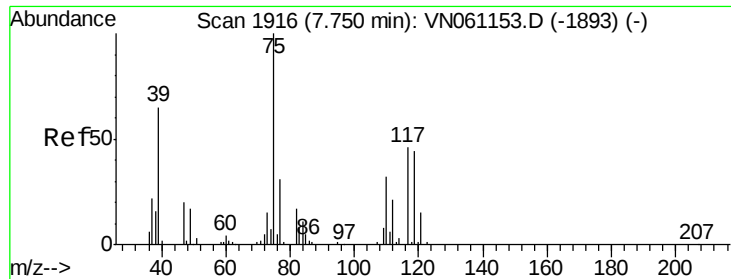
#35
 Dibromofluoromethane
 Concen: 48.645 ug/l
 RT: 7.55 min Scan# 1853
 Delta R.T. 0.00 min
 Lab File: VN061293.D
 Acq: 5 May 2020 15:41

Tgt Ion:113 Resp: 52034
 Ion Ratio Lower Upper
 113 100
 111 102.5 82.9 124.3
 192 18.3 14.7 22.1



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

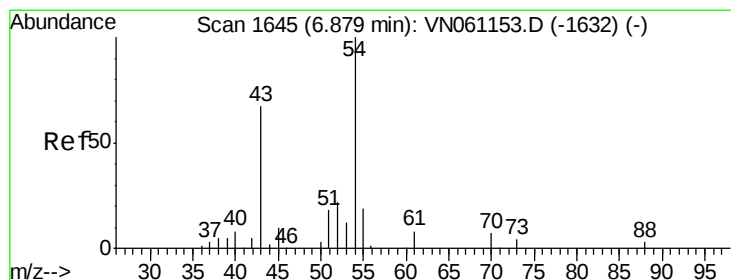
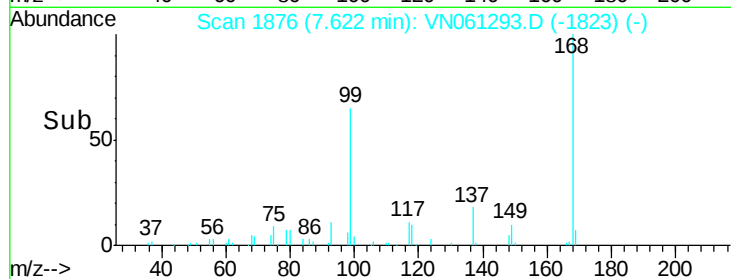
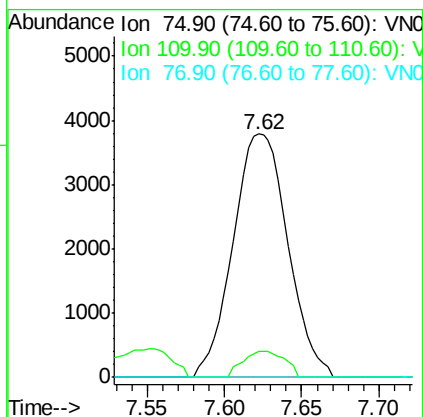
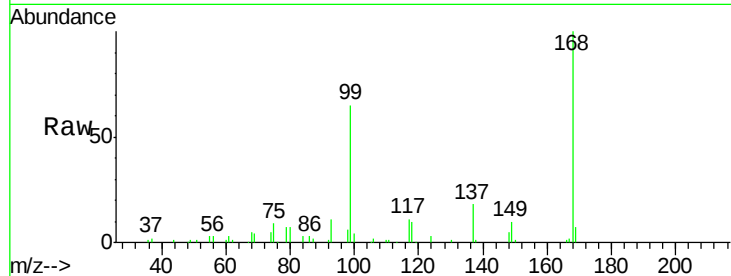




#36
 1,1-Dichloropropene
 Concen: 5.143 ug/l
 RT: 7.62 min Scan# 1876
 Delta R.T. -0.13 min
 Lab File: VN061293.D
 Acq: 5 May 2020 15:41

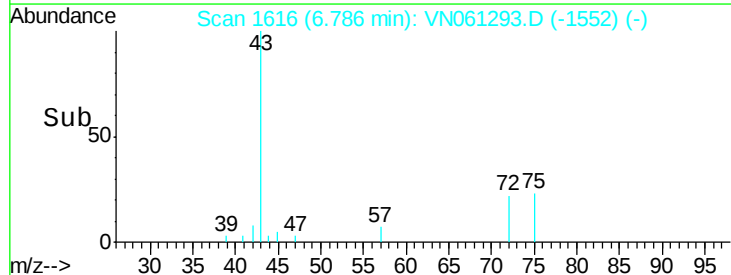
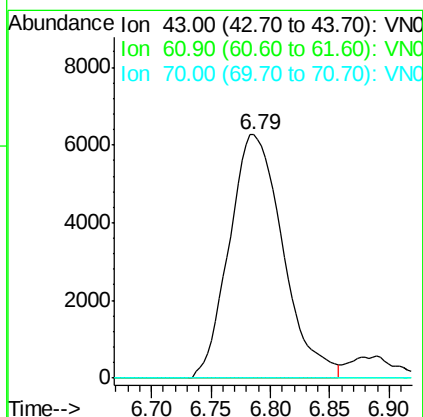
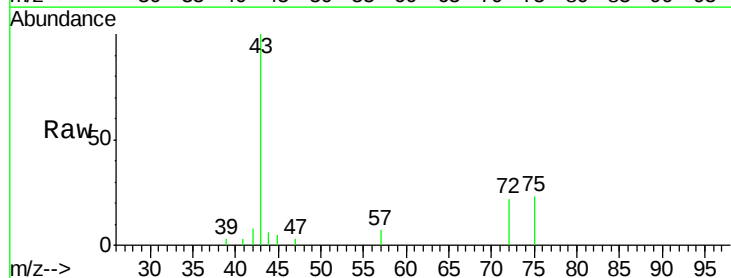
Instrument :
 MSVOA_N
 ClientSampleId :

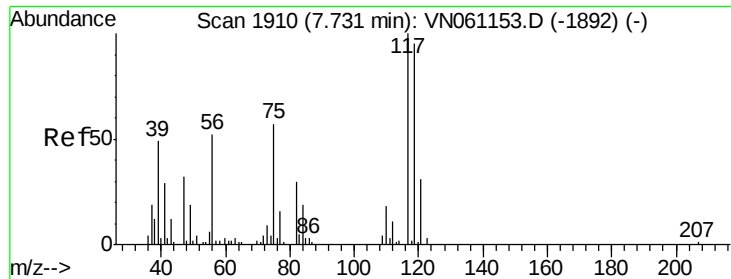
Tot Ion: 75 Resp: 9313
 Ion Ratio Lower Upper
 75 100
 110 8.2 16.0 48.0#
 77 0.0 24.6 37.0#



#37
 Ethyl Acetate
 Concen: 9.218 ug/l
 RT: 6.79 min Scan# 1616
 Delta R.T. -0.09 min
 Lab File: VN061293.D
 Acq: 5 May 2020 15:41

Tgt Ion: 43 Resp: 19568
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.2 15.2#
 70 0.0 7.2 10.8#





#38

Carbon Tetrachloride

Concen: 8.494 ug/l

RT: 7.63 min Scan# 1877

Delta R.T. -0.11 min

Lab File: VN061293.D

Acq: 5 May 2020 15:41

Instrument :

MSVOA_N

ClientSampled :

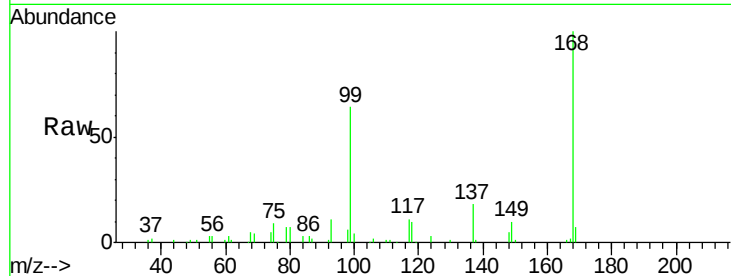
Tot Ion:117 Resp: 10747

Ion Ratio Lower Upper

117 100

119 3.9 75.8 113.6#

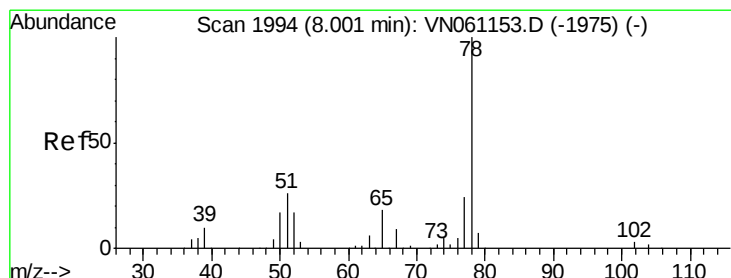
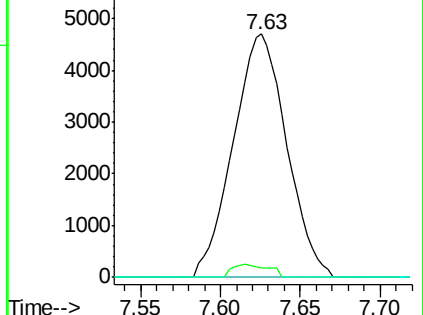
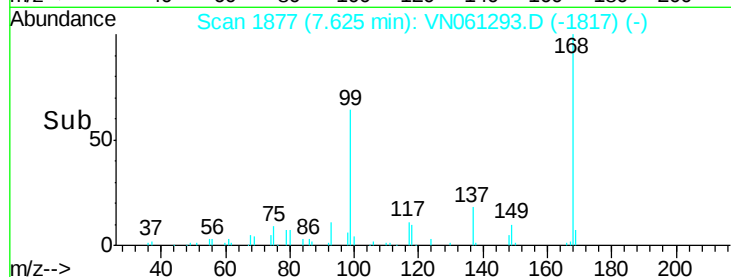
121 0.0 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#40

Benzene

Concen: 1.296 ug/l

RT: 8.00 min Scan# 1993

Delta R.T. -0.00 min

Lab File: VN061293.D

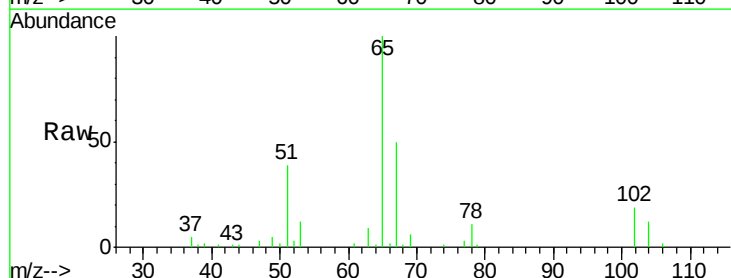
Acq: 5 May 2020 15:41

Tgt Ion: 78 Resp: 6994

Ion Ratio Lower Upper

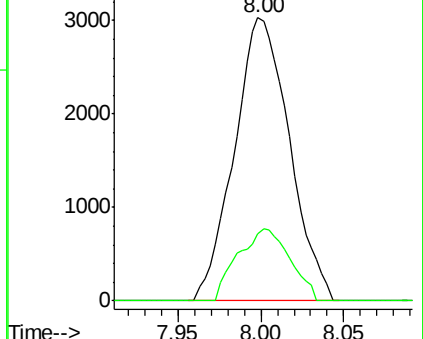
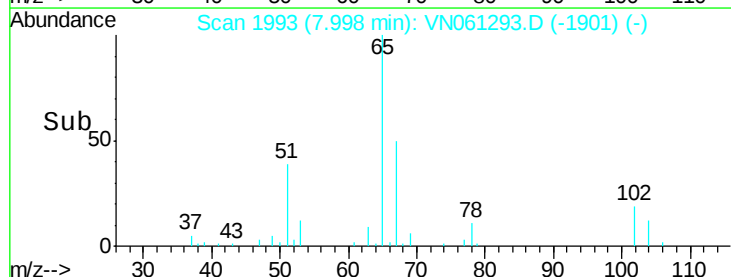
78 100

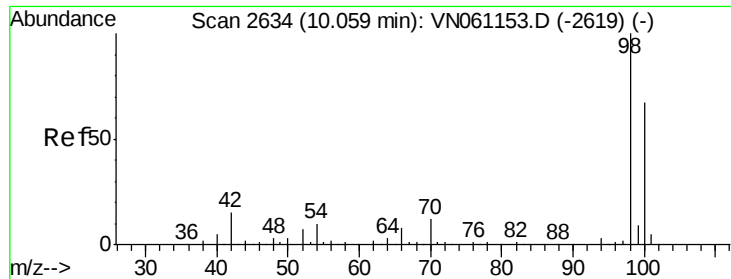
77 23.6 19.0 28.6



Abundance Ion 78.00 (77.70 to 78.70): VN0

Ion 77.00 (76.70 to 77.70): VN0

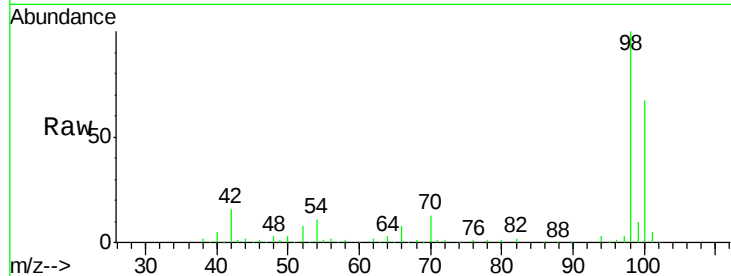




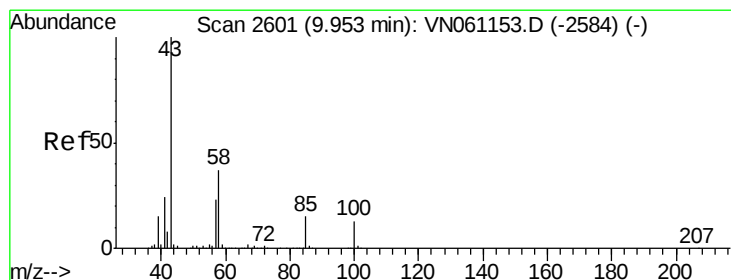
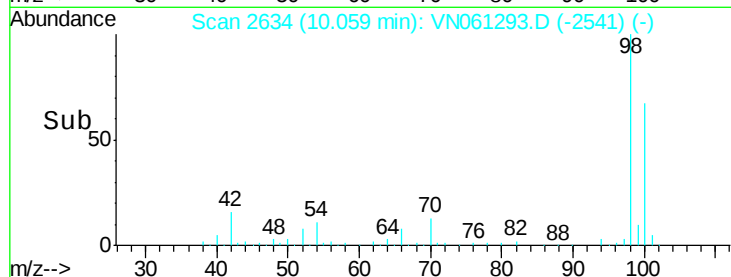
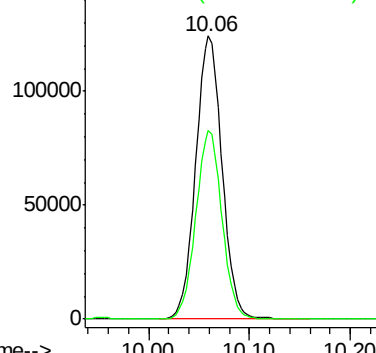
#50
Toluene-d8
Concen: 51.999 ug/l
RT: 10.06 min Scan# 2634
Delta R.T. 0.00 min
Lab File: VN061293.D
Acq: 5 May 2020 15:41

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 98 Resp: 226743
Ion Ratio Lower Upper
98 100
100 66.1 53.4 80.0

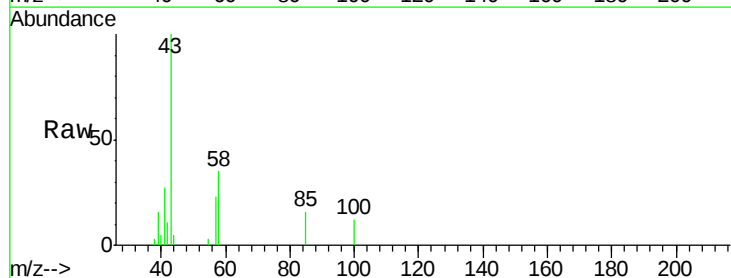


Abundance Ion 98.00 (97.70 to 98.70): VN061153.D (-2619) (-)
Ion 100.00 (99.70 to 100.70): VN061153.D (-2619) (-)

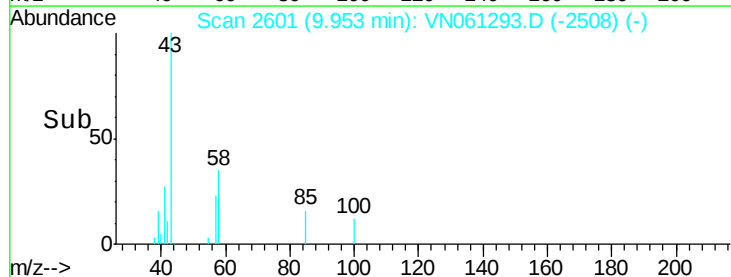
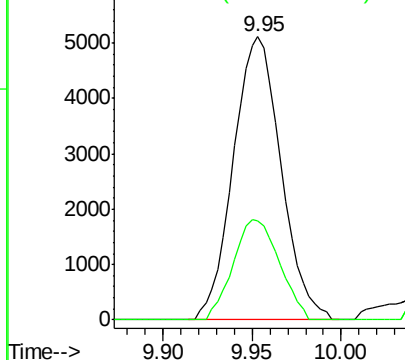


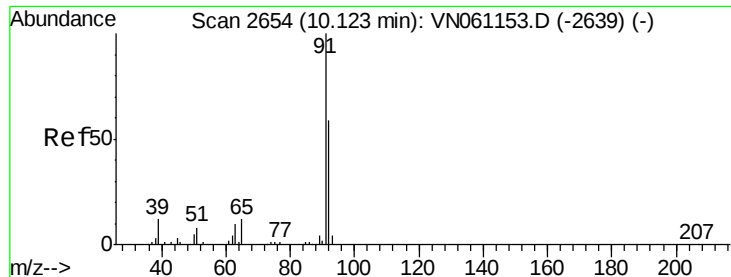
#51
4-Methyl-2-Pentanone
Concen: 4.594 ug/l
RT: 9.95 min Scan# 2601
Delta R.T. 0.00 min
Lab File: VN061293.D
Acq: 5 May 2020 15:41

Tgt Ion: 43 Resp: 9527
Ion Ratio Lower Upper
43 100
58 34.2 29.1 43.7



Abundance Ion 43.00 (42.70 to 43.70): VN061153.D (-2584) (-)
Ion 58.00 (57.70 to 58.70): VN061153.D (-2584) (-)





#52

Toluene

Concen: 3.511 ug/l

RT: 10.12 min Scan# 2654

Delta R.T. 0.00 min

Lab File: VN061293.D

Acq: 5 May 2020 15:41

Instrument :

MSVOA_N

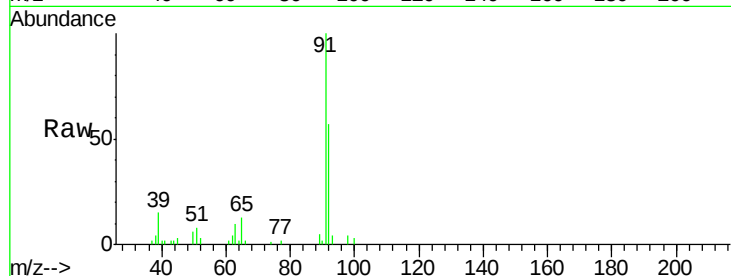
ClientSampled :

Tot Ion: 92 Resp: 11410

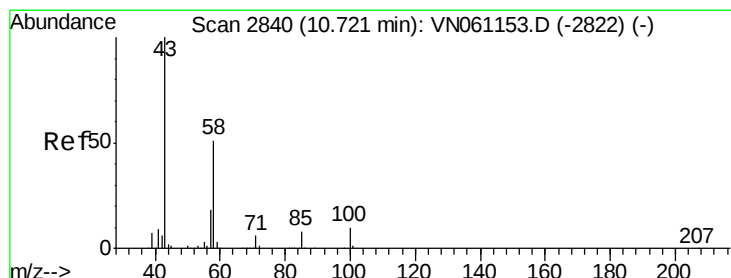
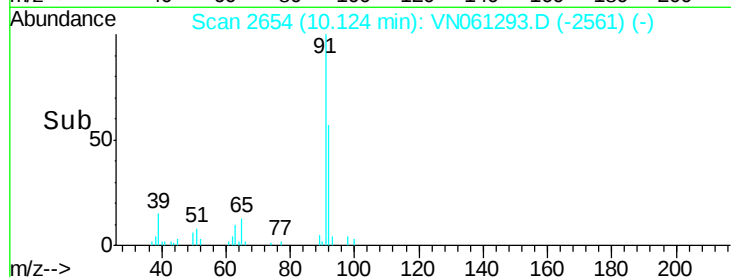
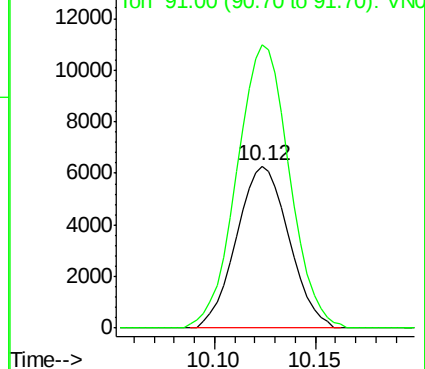
Ion Ratio Lower Upper

92 100

91 175.6 136.2 204.2



Abundance Ion 92.00 (91.70 to 92.70): VN061293.D (-2561) (-)



#59

2-Hexanone

Concen: 0.643 ug/l

RT: 10.73 min Scan# 2842

Delta R.T. 0.01 min

Lab File: VN061293.D

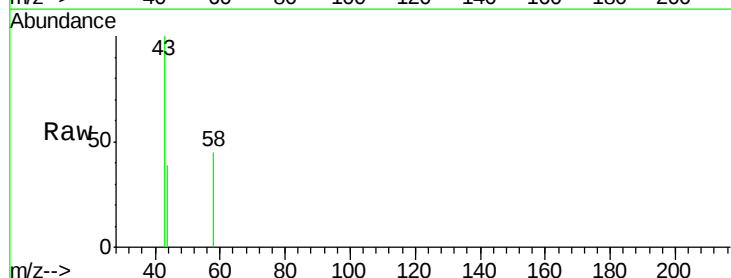
Acq: 5 May 2020 15:41

Tgt Ion: 43 Resp: 970

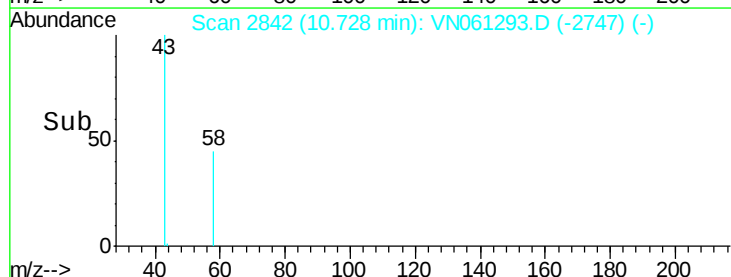
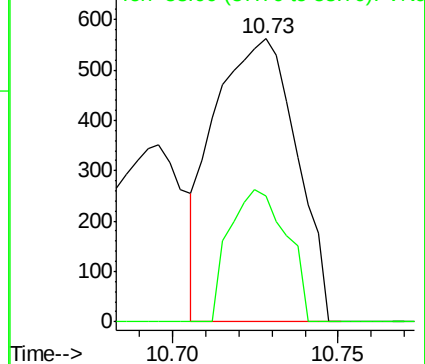
Ion Ratio Lower Upper

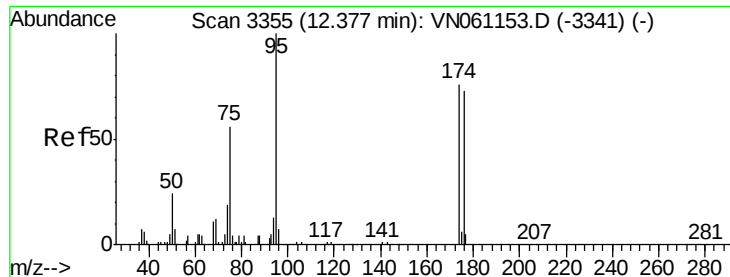
43 100

58 32.4 25.4 76.4



Abundance Ion 43.00 (42.70 to 43.70): VN061293.D (-2747) (-)

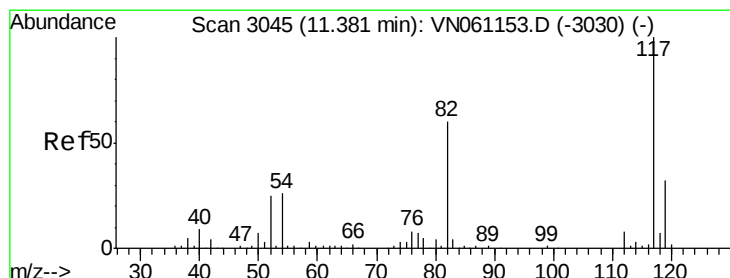
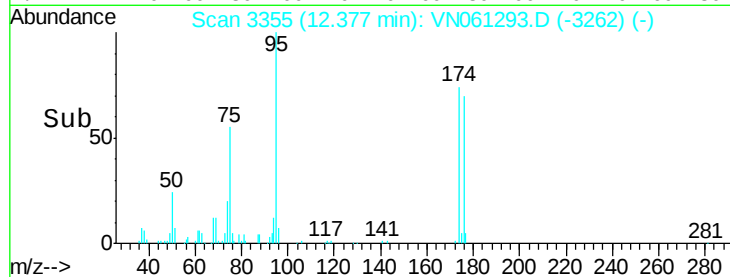
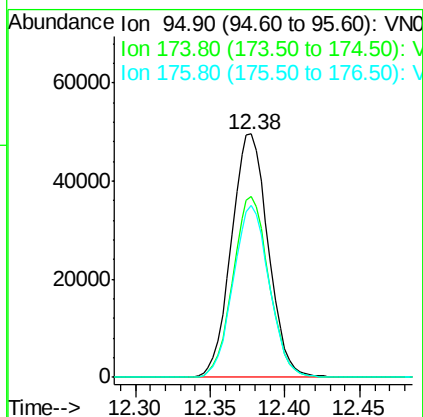
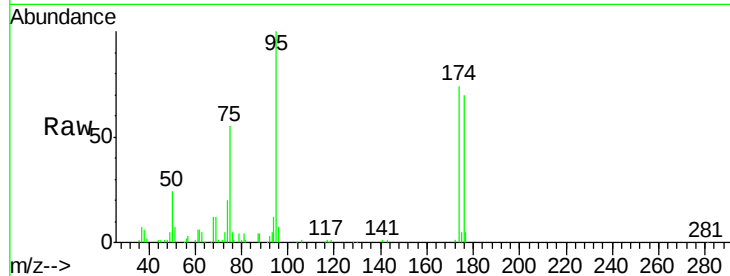




#62
4-Bromofluorobenzene
Concen: 51.758 ug/l
RT: 12.38 min Scan# 3355
Delta R.T. 0.00 min
Lab File: VN061293.D
Acq: 5 May 2020 15:41

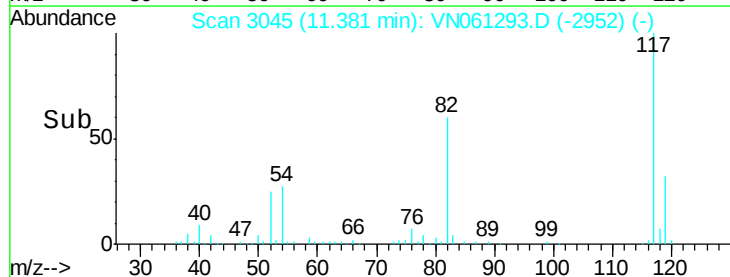
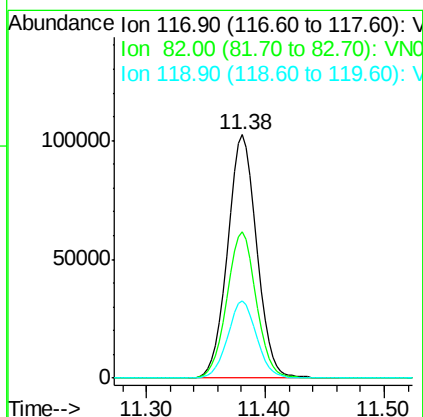
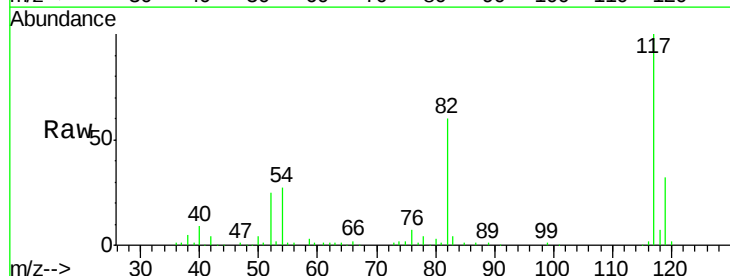
Instrument :
MSVOA_N
ClientSampleId :

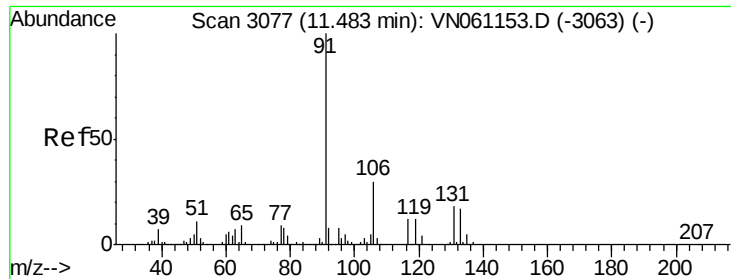
Tot Ion: 95 Resp: 84932
Ion Ratio Lower Upper
95 100
174 72.7 0.0 149.4
176 69.2 0.0 144.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 3045
Delta R.T. 0.00 min
Lab File: VN061293.D
Acq: 5 May 2020 15:41

Tgt Ion: 117 Resp: 173912
Ion Ratio Lower Upper
117 100
82 60.0 47.8 71.8
119 32.0 25.8 38.6





#67

Ethyl Benzene

Concen: 0.421 ug/l

RT: 11.48 min Scan# 3077

Delta R.T. 0.00 min

Lab File: VN061293.D

Acq: 5 May 2020 15:41

Instrument :

MSVOA_N

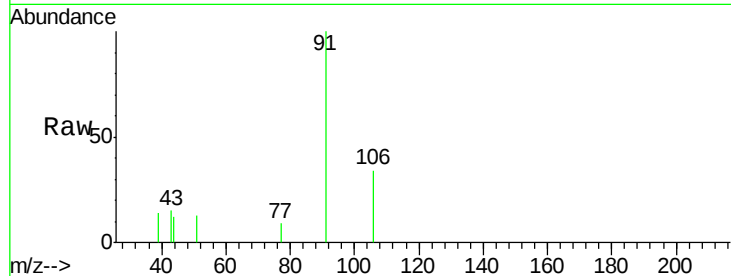
ClientSampled :

Tot Ion: 91 Resp: 2720

Ion Ratio Lower Upper

91 100

106 33.8 23.8 35.6



Abundance Ion 91.00 (90.70 to 91.70): VN061153.D (-3063) (-)

Ion 106.00 (105.70 to 106.70): VN061153.D (-3063) (-)

11.48

1500

1000

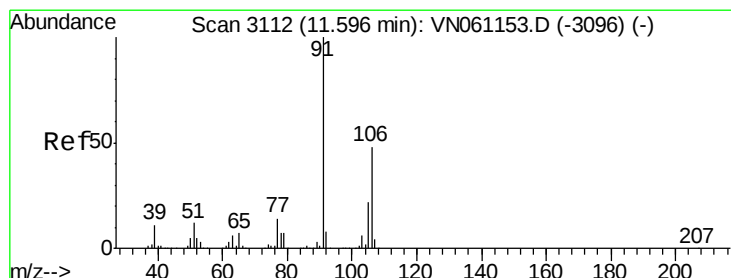
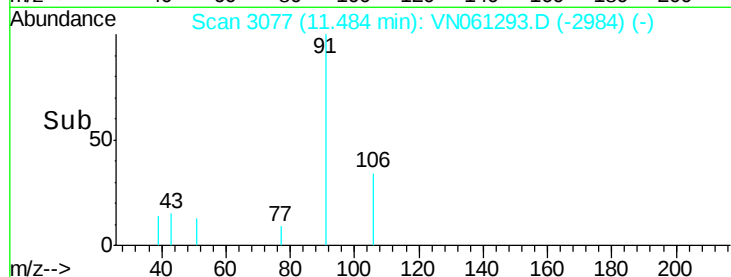
500

0

11.45

11.50

Time-->



#68

m/p-Xylenes

Concen: 0.252 ug/l

RT: 11.59 min Scan# 3110

Delta R.T. -0.01 min

Lab File: VN061293.D

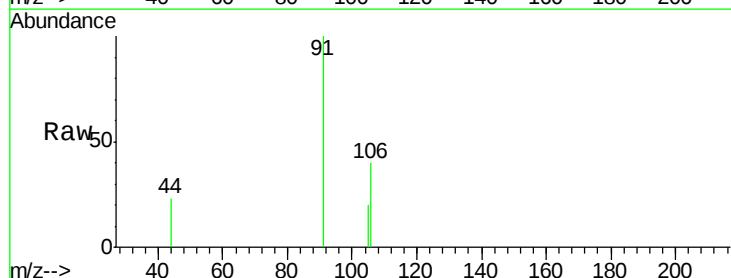
Acq: 5 May 2020 15:41

Tgt Ion: 106 Resp: 595

Ion Ratio Lower Upper

106 100

91 275.3 166.4 249.6#



Abundance Ion 106.00 (105.70 to 106.70): VN061153.D (-3096) (-)

Ion 91.00 (90.70 to 91.70): VN061153.D (-3096) (-)

11.59

1000

800

600

400

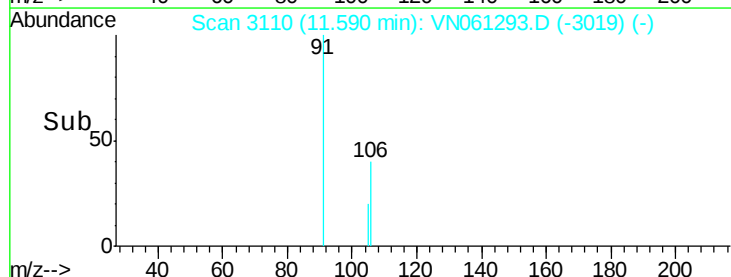
200

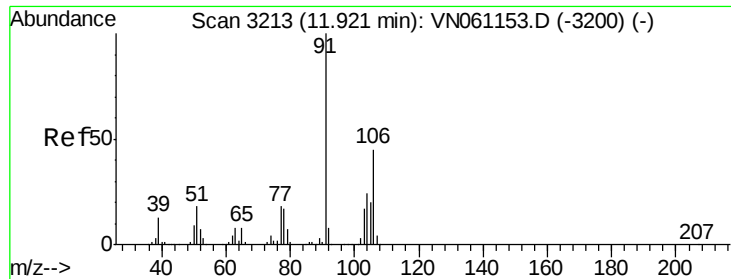
0

11.55

11.60

Time-->

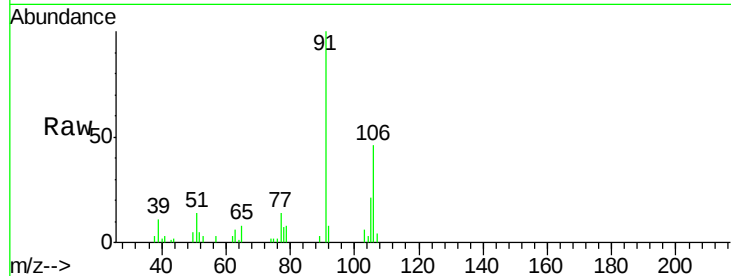




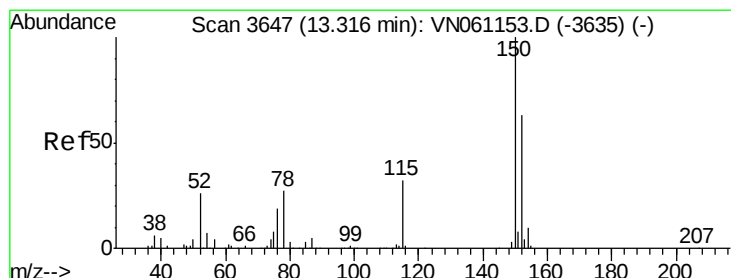
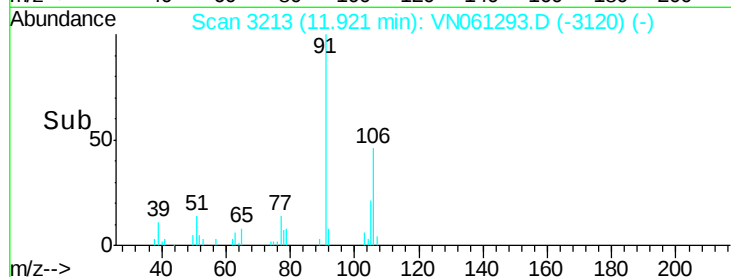
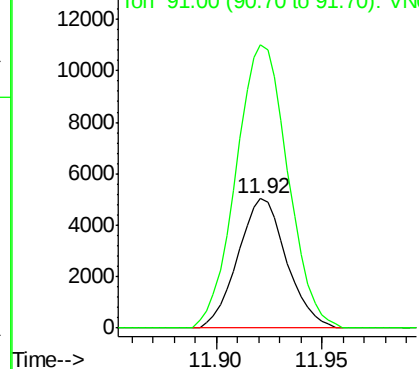
#69
o-Xylene
Concen: 3.560 ug/l
RT: 11.92 min Scan# 3213
Delta R.T. 0.00 min
Lab File: VN061293.D
Acq: 5 May 2020 15:41

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:106 Resp: 8084
Ion Ratio Lower Upper
106 100
91 232.1 109.7 329.0

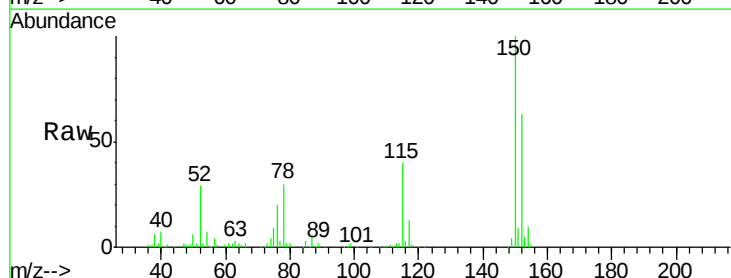


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN

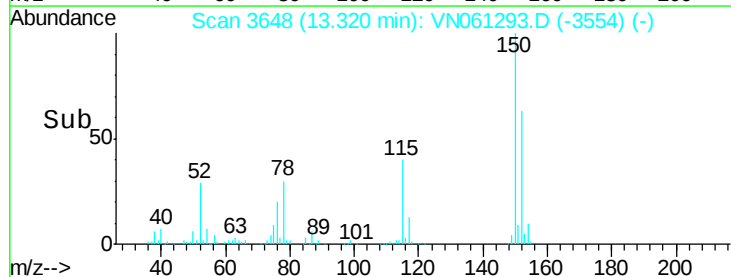
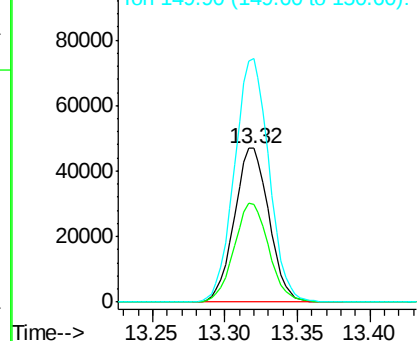


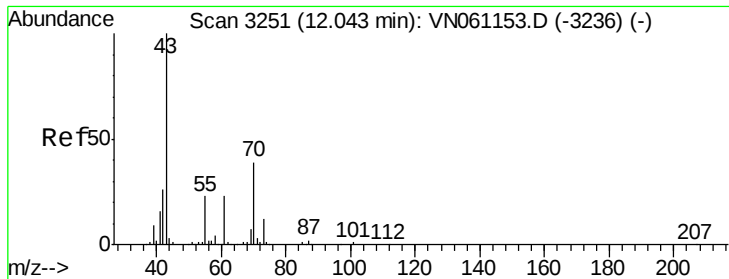
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3648
Delta R.T. 0.00 min
Lab File: VN061293.D
Acq: 5 May 2020 15:41

Tgt Ion:152 Resp: 77660
Ion Ratio Lower Upper
152 100
115 64.5 31.0 93.0
150 158.1 0.0 351.8



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V

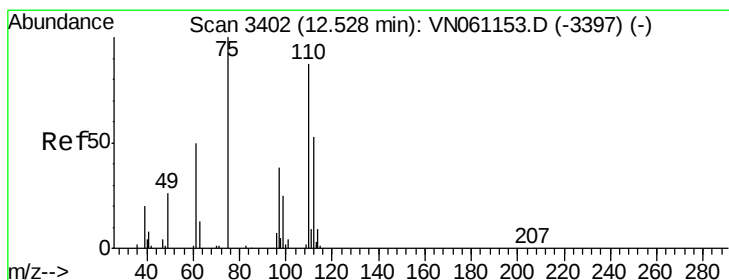
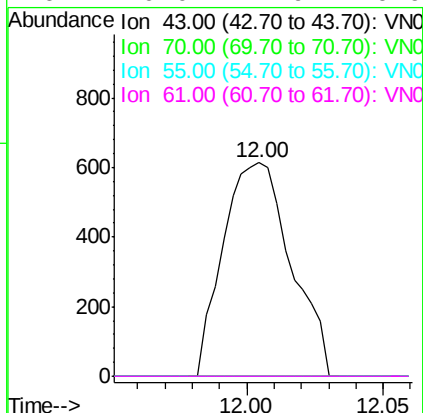
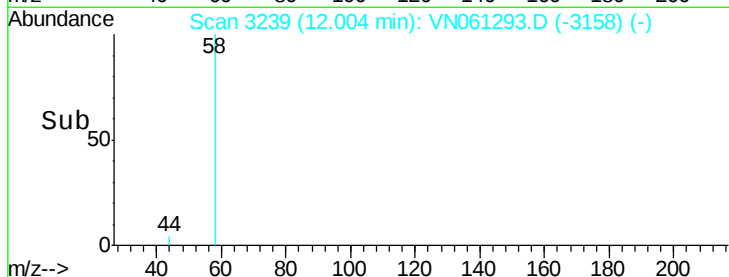
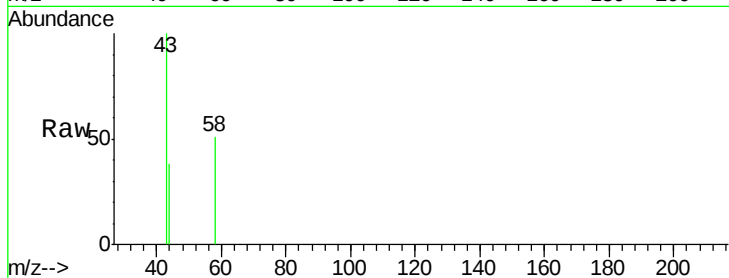




#74
N-amvl acetate
Concen: 0.367 ug/l
RT: 12.00 min Scan# 3239
Delta R.T. -0.04 min
Lab File: VN061293.D
Acq: 5 May 2020 15:41

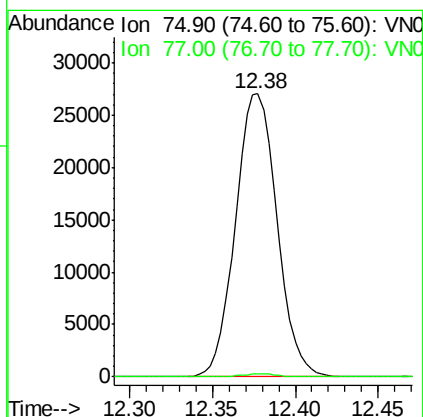
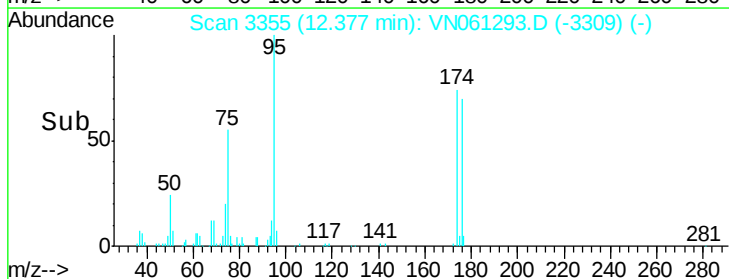
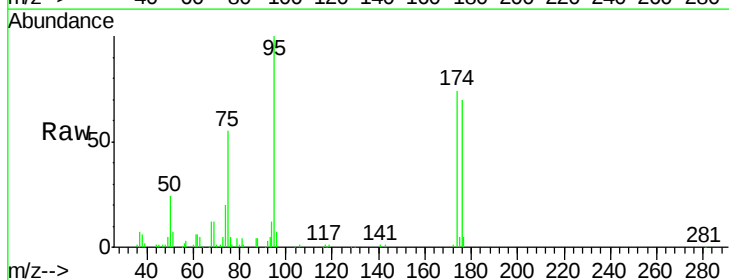
Instrument :
MSVOA_N
ClientSampleId :

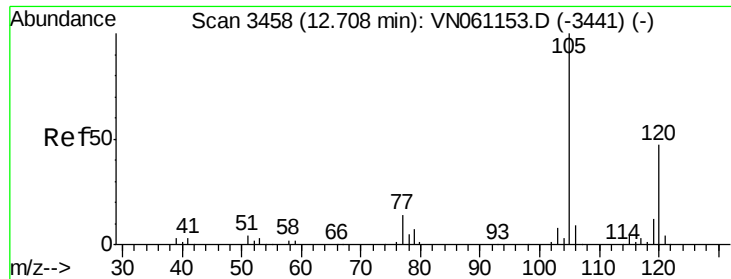
Tot Ion: 43 Resp: 1060
Ion Ratio Lower Upper
43 100
70 0.0 30.6 46.0#
55 0.0 18.5 27.7#
61 0.0 17.9 26.9#



#76
1,2,3-Trichloropropane
Concen: 28.798 ug/l
RT: 12.38 min Scan# 3355
Delta R.T. -0.15 min
Lab File: VN061293.D
Acq: 5 May 2020 15:41

Tgt Ion: 75 Resp: 47150
Ion Ratio Lower Upper
75 100
77 0.8 0.0 0.0#

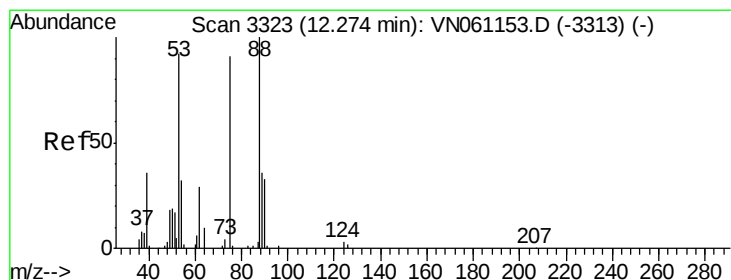
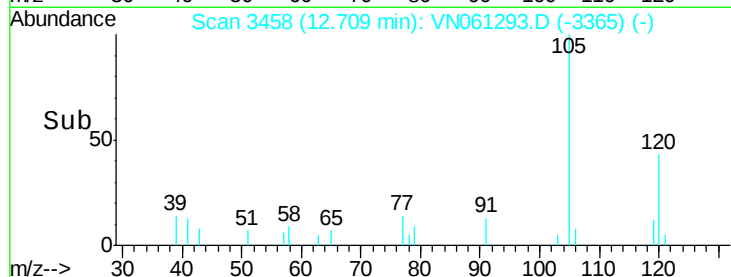
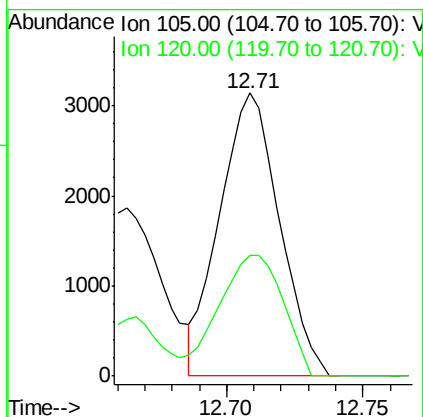
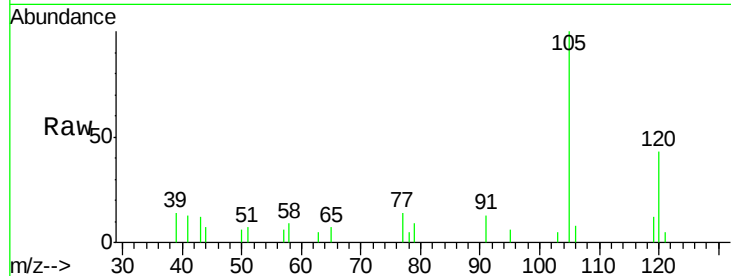




#80
 1,3,5-Trimethylbenzene
 Concen: 1.012 ug/l
 RT: 12.71 min Scan# 3458
 Delta R.T. 0.00 min
 Lab File: VN061293.D
 Acq: 5 May 2020 15:41

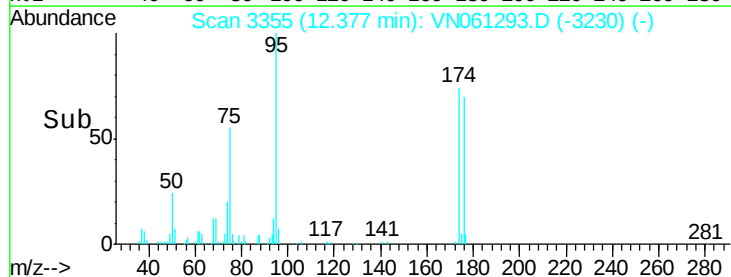
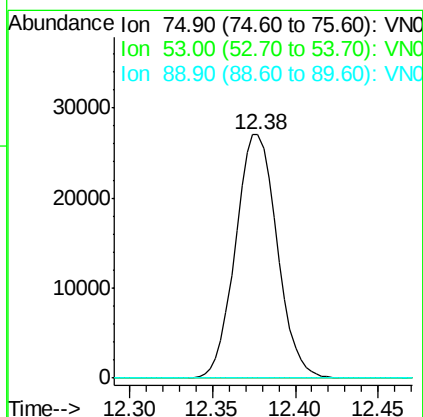
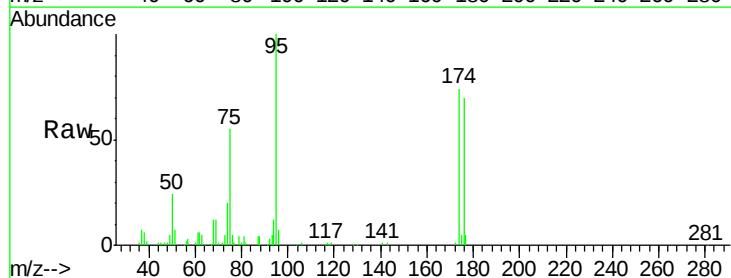
Instrument :
 MSVOA_N
 ClientSampleId :

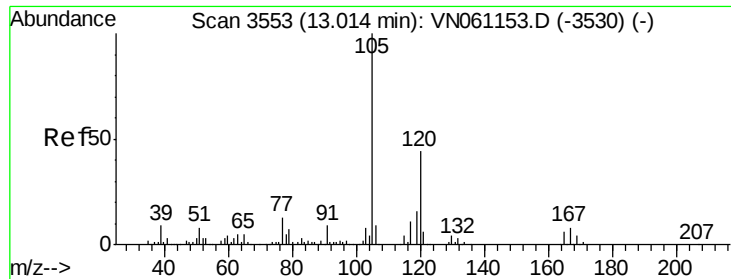
Tot Ion:105 Resp: 4781
 Ion Ratio Lower Upper
 105 100
 120 46.0 23.9 71.7



#81
 trans-1,4-Dichloro-2-butene
 Concen: 73.131 ug/l
 RT: 12.38 min Scan# 3355
 Delta R.T. 0.10 min
 Lab File: VN061293.D
 Acq: 5 May 2020 15:41

Tgt Ion: 75 Resp: 47150
 Ion Ratio Lower Upper
 75 100
 53 0.0 84.1 126.1#
 89 0.0 35.2 52.8#

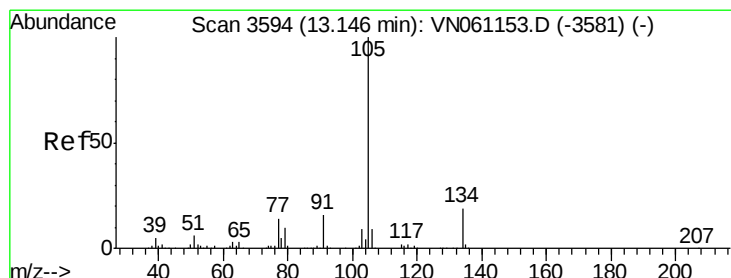
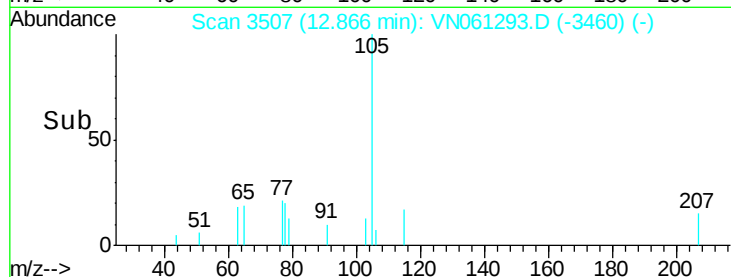
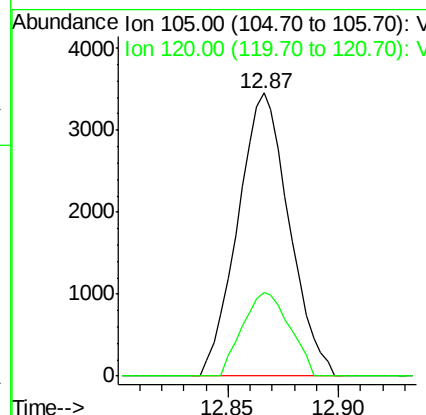
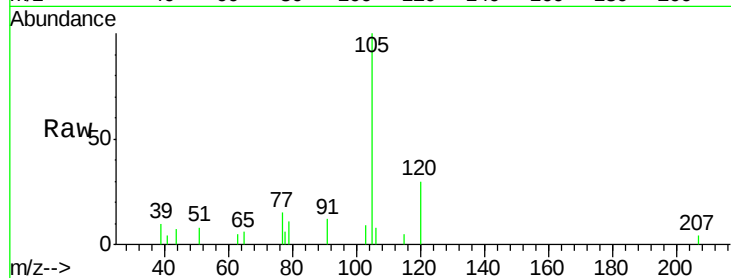




#84
 1,2,4-Trimethylbenzene
 Concen: 1.145 ug/l
 RT: 12.87 min Scan# 3507
 Delta R.T. -0.15 min
 Lab File: VN061293.D
 Acq: 5 May 2020 15:41

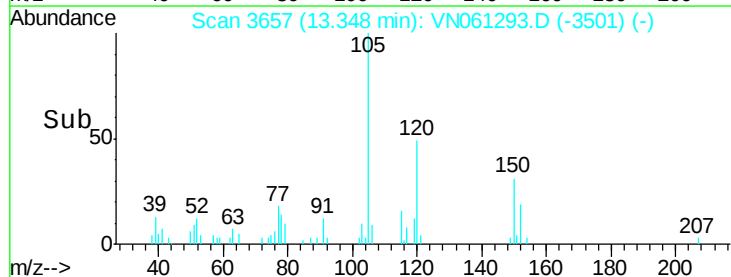
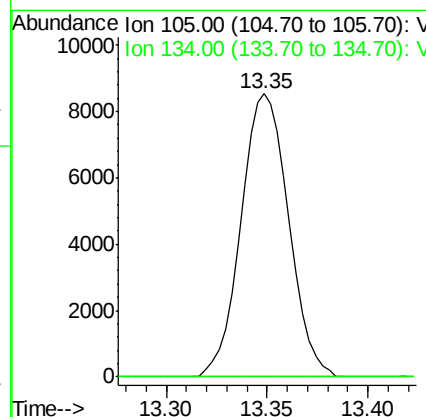
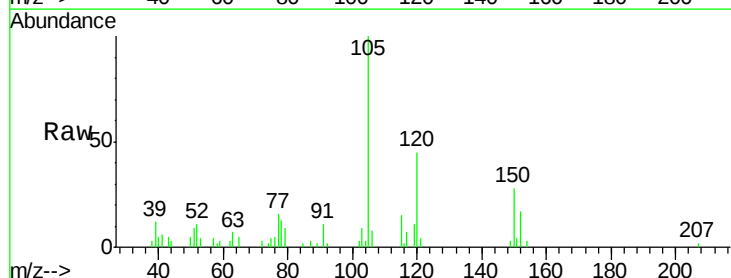
Instrument :
 MSVOA_N
 ClientSampled :

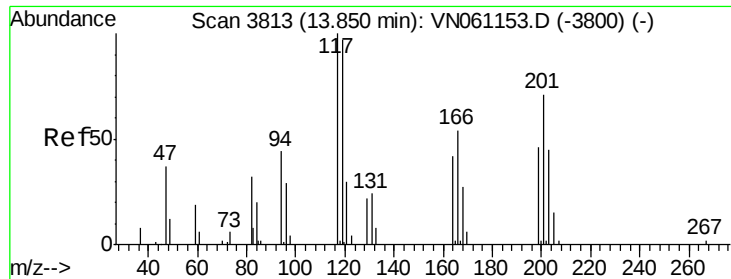
Tot Ion:105 Resp: 5575
 Ion Ratio Lower Upper
 105 100
 120 27.0 22.2 66.6



#85
 sec-Butylbenzene
 Concen: 2.590 ug/l
 RT: 13.35 min Scan# 3657
 Delta R.T. 0.20 min
 Lab File: VN061293.D
 Acq: 5 May 2020 15:41

Tgt Ion:105 Resp: 14071
 Ion Ratio Lower Upper
 105 100
 134 0.0 9.6 28.8#





#90

Hexachloroethane

Concen: 7.882 ug/l

RT: 13.86 min Scan# 3816

Delta R.T. 0.01 min

Lab File: VN061293.D

Acq: 5 May 2020 15:41

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion:117 Resp: 154

Ion Ratio Lower Upper

117 100

201 0.0 35.5 106.7#

