

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061119\
 Data File : VN056213.D
 Acq On : 11 Jun 2019 11:01
 Operator : JC/SP
 Sample : K3214-01DL 250X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-1ADL

Quant Time: Jun 12 06:31:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N060419W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 04 11:02:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	301387	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	447297	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	440703	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	159869	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	155722	52.04	ug/l	0.00
Spiked Amount			Recovery	=	104.08%	
35) Dibromofluoromethane	7.59	113	146299	53.31	ug/l	0.00
Spiked Amount			Recovery	=	106.62%	
50) Toluene-d8	10.09	98	572181	54.18	ug/l	0.00
Spiked Amount			Recovery	=	108.36%	
62) 4-Bromofluorobenzene	12.40	95	191501	53.32	ug/l	0.00
Spiked Amount			Recovery	=	106.64%	

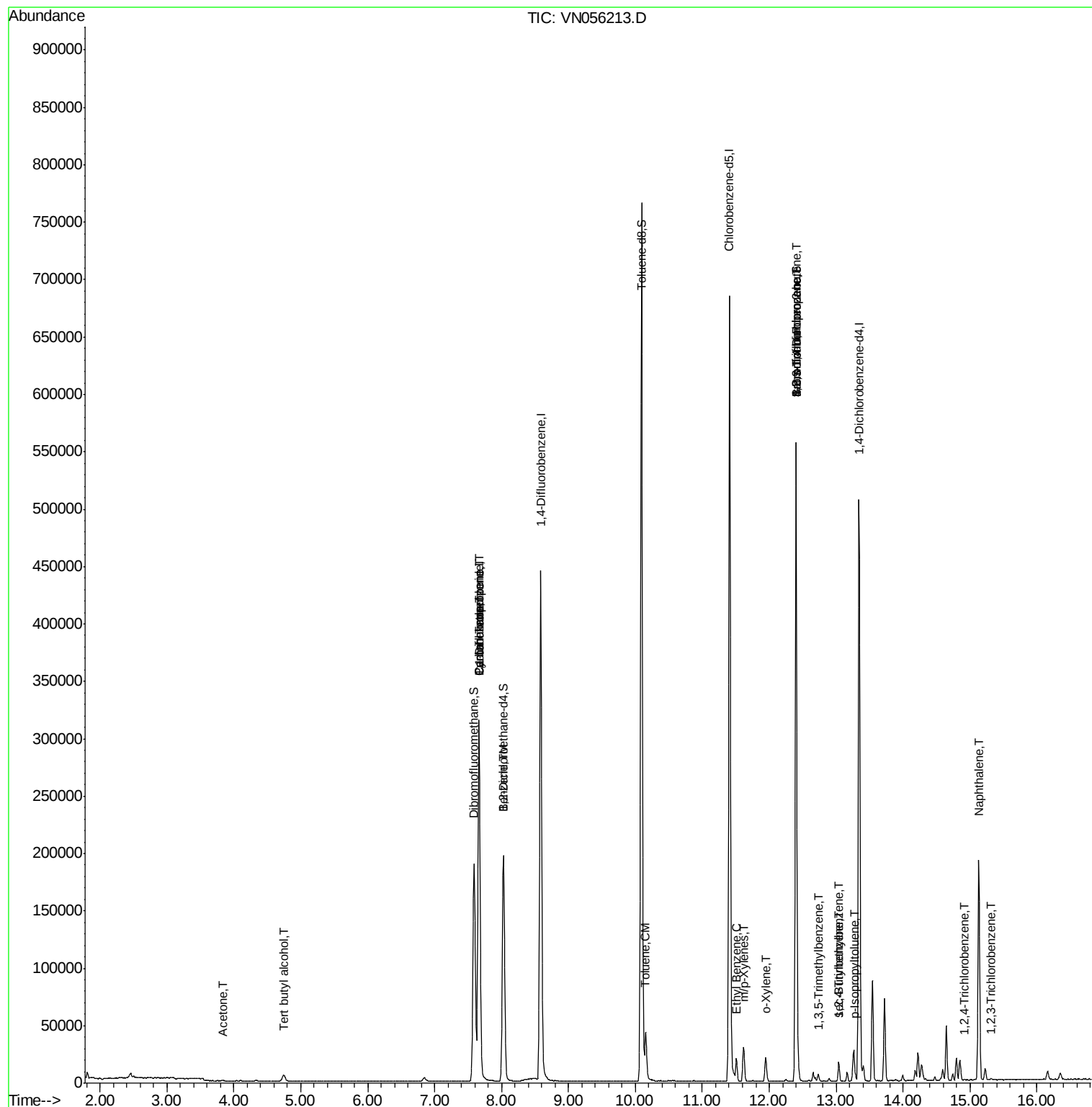
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.74	59	4942	9.490	ug/l #	74
16) Acetone	3.83	43	1071	0.748	ug/l #	41
18) Methyl Acetate	4.33	43	1226	Below Cal	#	51
31) Cyclohexane	7.66	56	3970	0.836	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	16952	4.408	ug/l #	48
38) Carbon Tetrachloride	7.67	117	23923	6.747	ug/l #	16
40) Benzene	8.04	78	22585	1.933	ug/l	97
52) Toluene	10.16	92	16651	2.291	ug/l	99
67) Ethyl Benzene	11.51	91	15174	0.995	ug/l	98
68) m/p-Xylenes	11.62	106	11193	1.921	ug/l	96
69) o-Xylene	11.95	106	6294	1.098	ug/l	97
71) Bromoform	12.40	173	1235	3.201	ug/l #	1
73) Isopropylbenzene	12.25	105	1605	Below Cal		75
76) 1,2,3-Trichloropropane	12.40	75	85035	28.907	ug/l #	100
79) 2-Chlorotoluene	12.66	91	1266	Below Cal	#	39
80) 1,3,5-Trimethylbenzene	12.73	105	3400	0.316	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	85035	96.266	ug/l #	15
83) tert-Butylbenzene	13.04	119	1368	Below Cal	#	62
84) 1,2,4-Trimethylbenzene	13.04	105	10837	1.063	ug/l	99
85) sec-Butylbenzene	13.04	105	10837	0.905	ug/l #	55
86) p-Isopropyltoluene	13.28	119	2887	0.269	ug/l #	80
93) 1,2,4-Trichlorobenzene	14.91	180	257	4.349	ug/l #	78
95) Naphthalene	15.13	128	180154	25.597	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	364	3.145	ug/l #	77

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N060419W.M
Quant Title : SW846 8260
QLast Update : Tue Jun 04 11:02:09 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN056213.D

Acq: 11 Jun 2019 11:01

Instrument :

MSVOA_N

ClientSampleId :

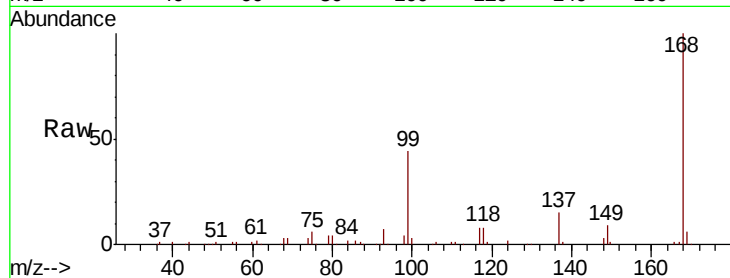
MW-1ADL

Tot Ion:168 Resp: 301387

Ion Ratio Lower Upper

168 100

99 43.7 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.66

150000

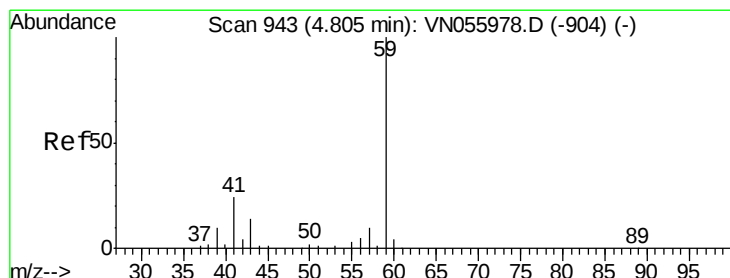
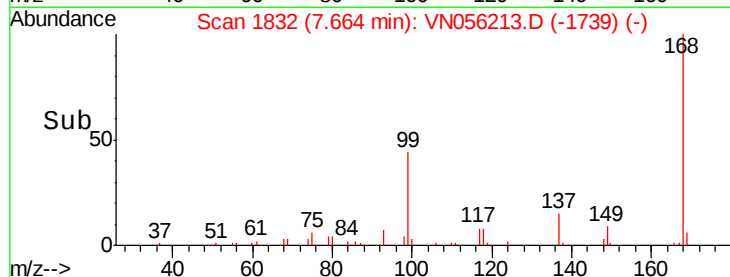
100000

50000

0

Time-->

7.60 7.70 7.80



#11

Tert butyl alcohol

Concen: 9.490 ug/l

RT: 4.74 min Scan# 923

Delta R.T. -0.06 min

Lab File: VN056213.D

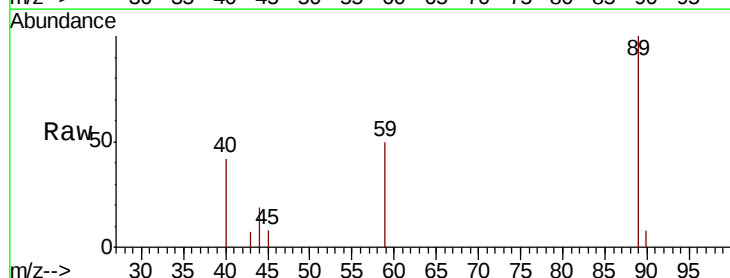
Acq: 11 Jun 2019 11:01

Tgt Ion: 59 Resp: 4942

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.74

1500

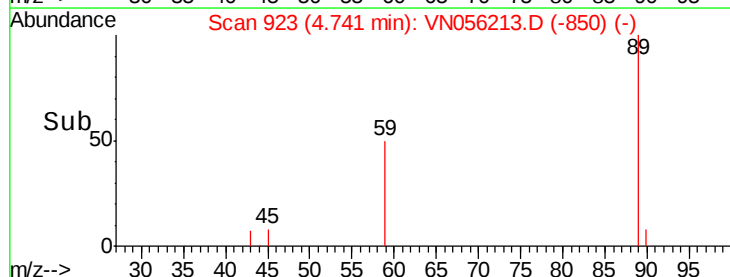
1000

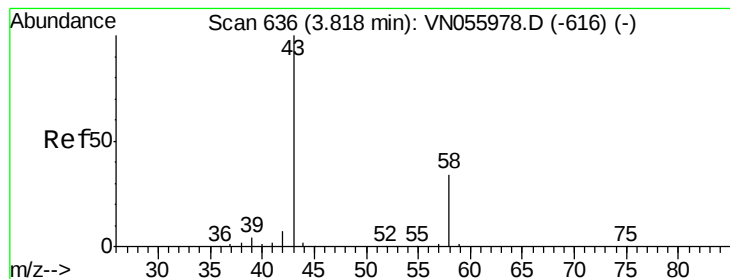
500

0

Time-->

4.65 4.70 4.75 4.80





#16

Acetone

Concen: 0.748 ug/l

RT: 3.83 min Scan# 641

Delta R.T. 0.02 min

Lab File: VN056213.D

Acq: 11 Jun 2019 11:01

Instrument :

MSVOA_N

ClientSampleId :

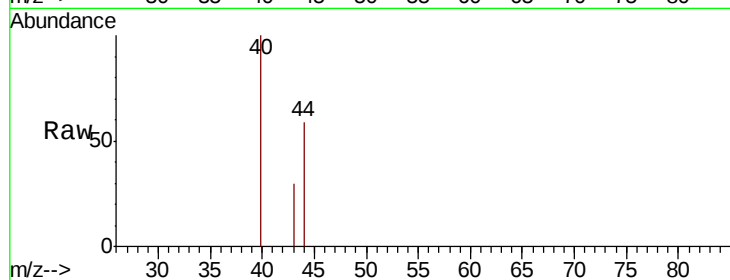
MW-1ADL

Tot Ion: 43 Resp: 1071

Ion Ratio Lower Upper

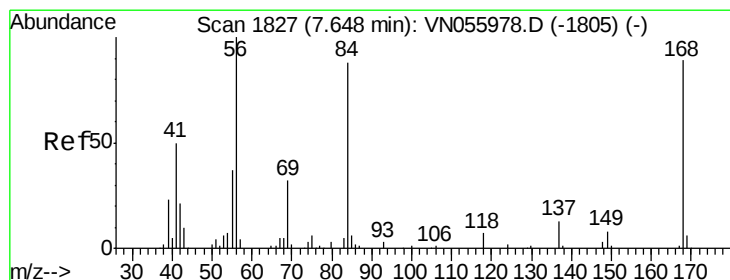
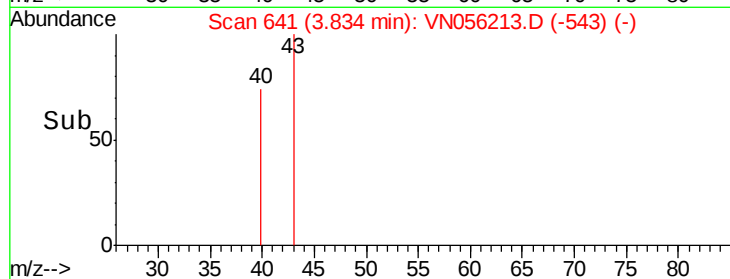
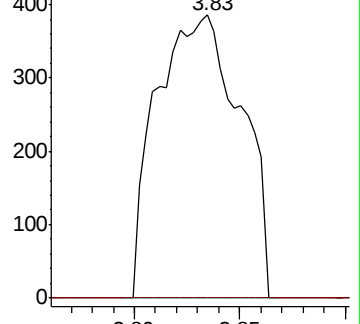
43 100

58 0.0 26.6 39.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#31

Cyclohexane

Concen: 0.836 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN056213.D

Acq: 11 Jun 2019 11:01

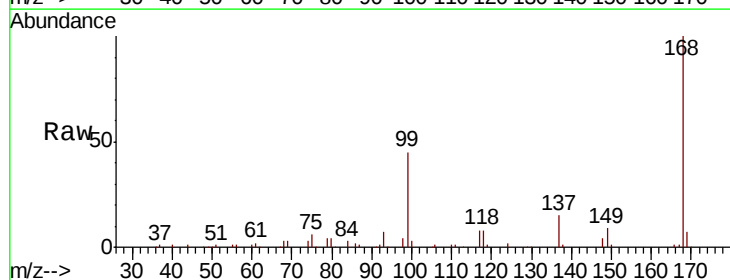
Tgt Ion: 56 Resp: 3970

Ion Ratio Lower Upper

56 100

69 205.5 25.6 38.4#

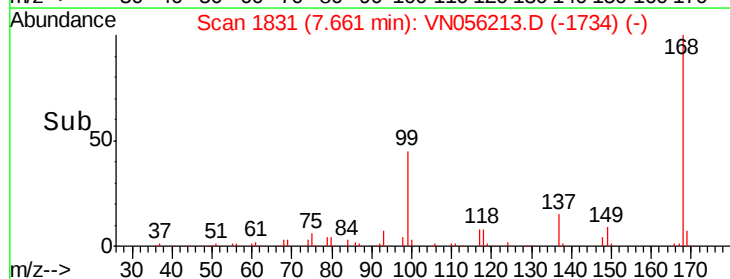
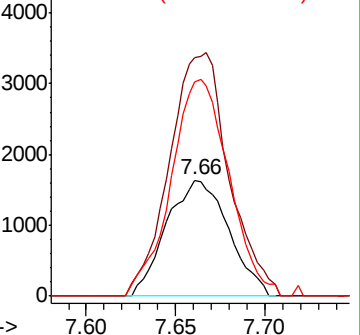
84 184.8 67.4 101.0#

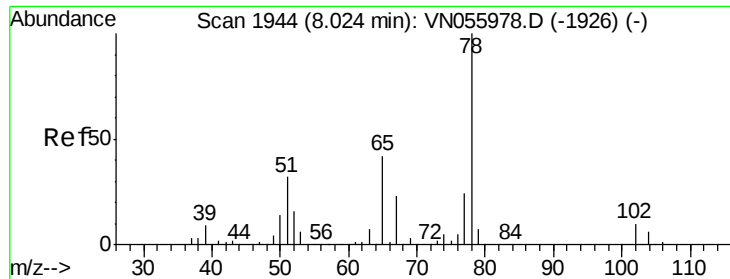


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

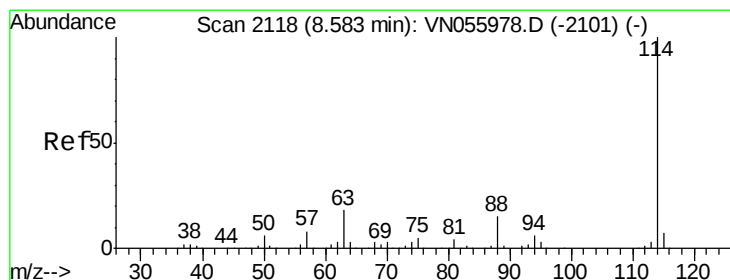
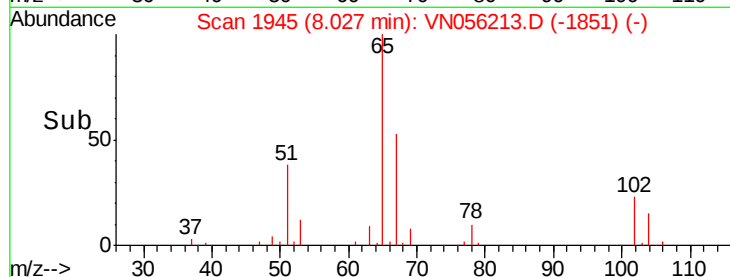
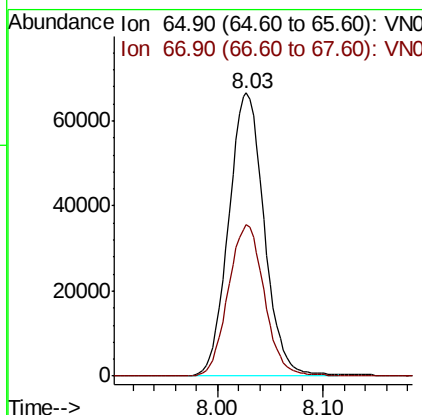
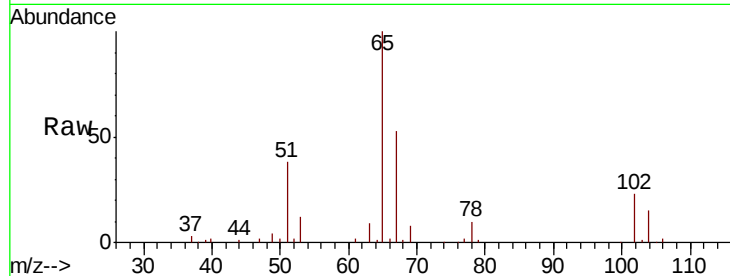




#33
 1,2-Dichloroethane-d4
 Concen: 52.037 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN056213.D
 Acq: 11 Jun 2019 11:01

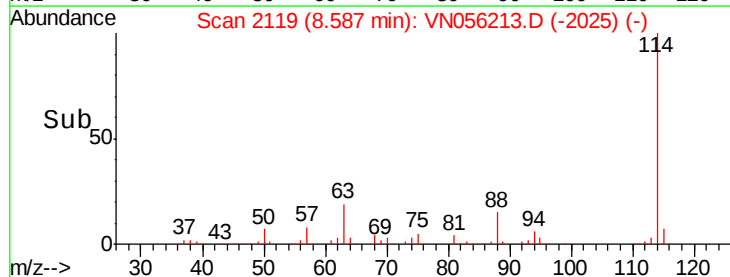
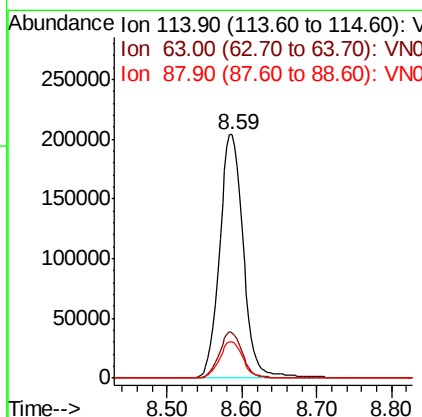
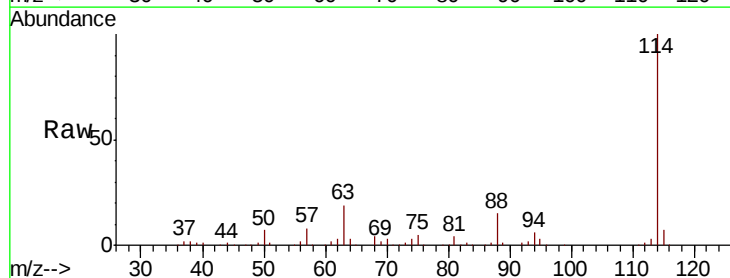
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-1ADL

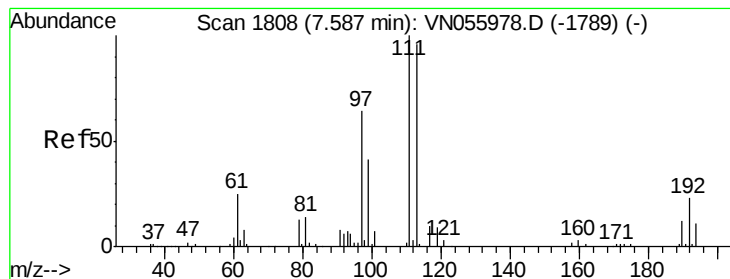
Tot Ion: 65 Resp: 155722
 Ion Ratio Lower Upper
 65 100
 67 54.3 0.0 109.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN056213.D
 Acq: 11 Jun 2019 11:01

Tgt Ion: 114 Resp: 447297
 Ion Ratio Lower Upper
 114 100
 63 18.7 0.0 39.2
 88 15.1 0.0 31.0





#35

Dibromofluoromethane

Concen: 53.310 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN056213.D

Acq: 11 Jun 2019 11:01

Instrument :

MSVOA_N

ClientSampleId :

MW-1ADL

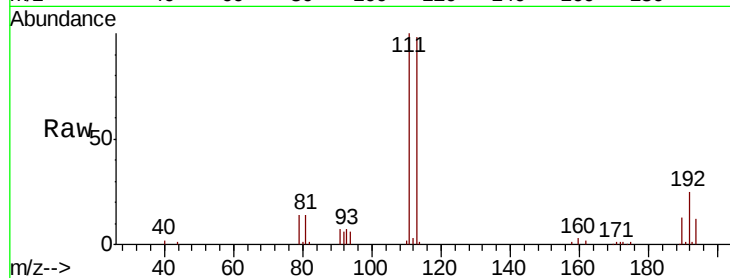
Tot Ion:113 Resp: 146299

Ion Ratio Lower Upper

113 100

111 102.1 81.9 122.9

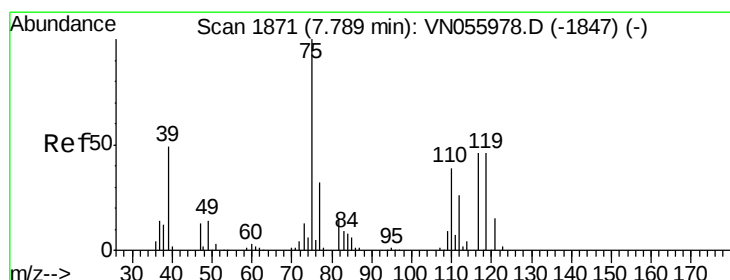
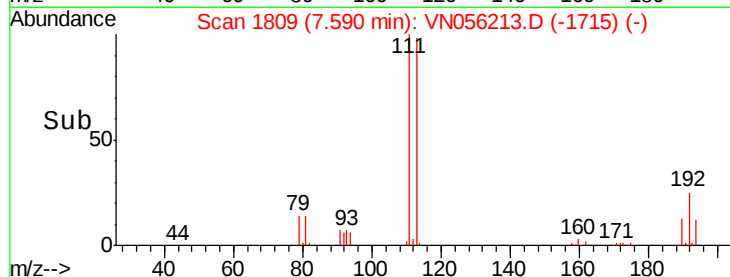
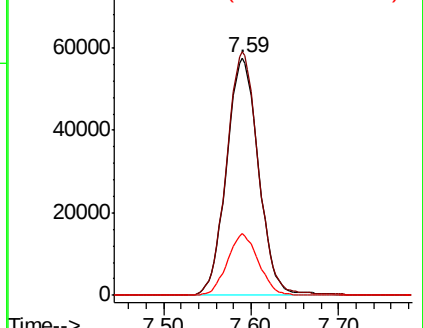
192 25.2 19.5 29.3



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: 4.408 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN056213.D

Acq: 11 Jun 2019 11:01

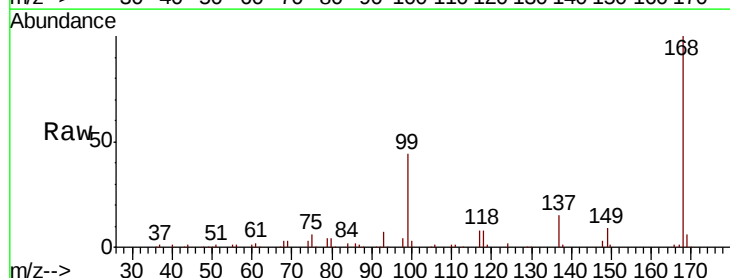
Tgt Ion: 75 Resp: 16952

Ion Ratio Lower Upper

75 100

110 8.7 19.0 57.0#

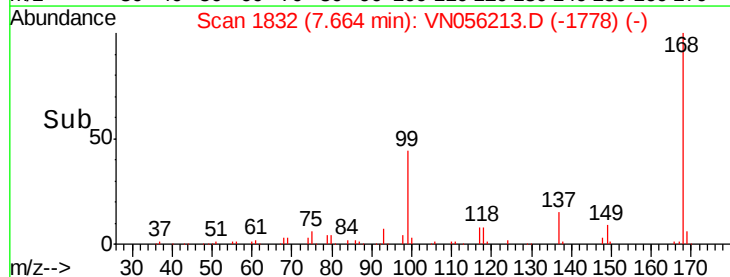
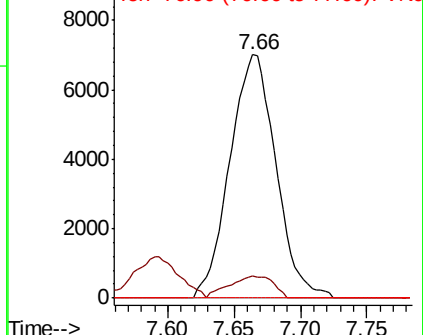
77 0.0 25.1 37.7#

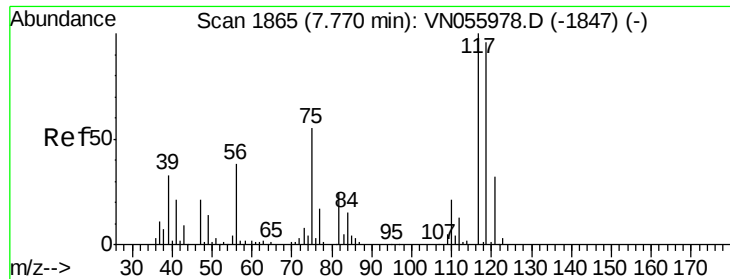


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.747 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.10 min

Lab File: VN056213.D

Acq: 11 Jun 2019 11:01

Instrument :

MSVOA_N

ClientSampleId :

MW-1ADL

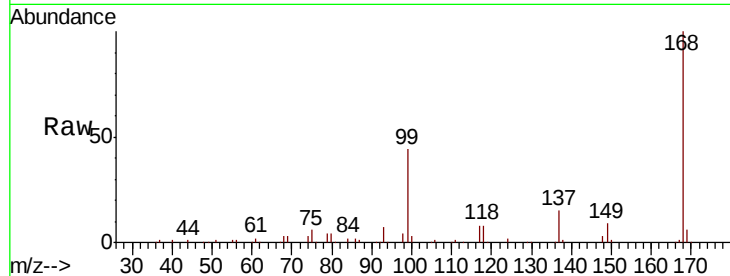
Tot Ion:117 Resp: 23923

Ion Ratio Lower Upper

117 100

119 6.1 79.0 118.6#

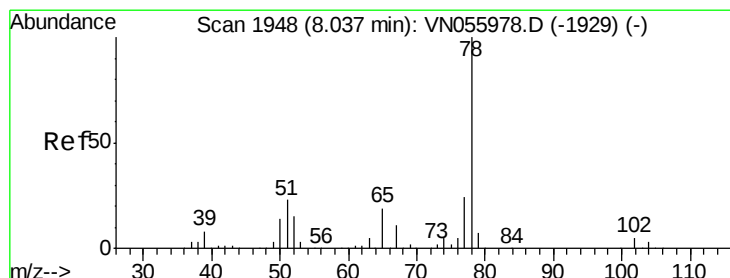
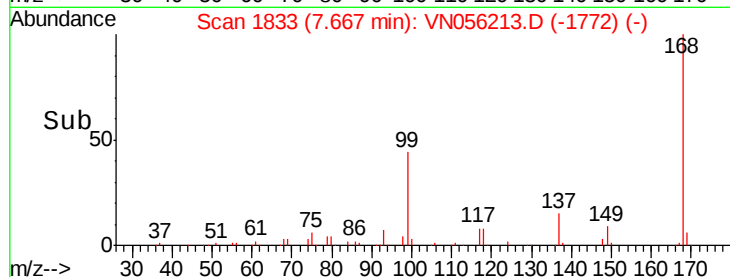
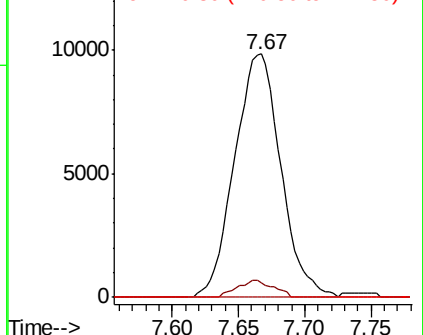
121 0.0 24.7 37.1#



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: 1.933 ug/l

RT: 8.04 min Scan# 1949

Delta R.T. 0.00 min

Lab File: VN056213.D

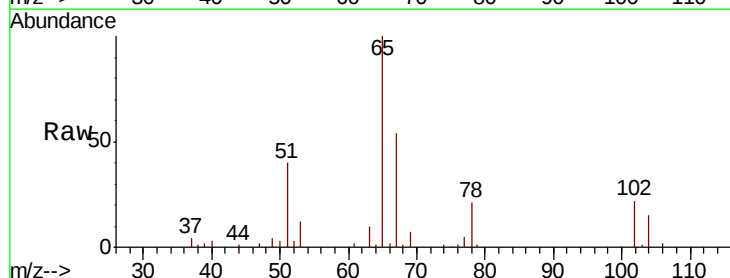
Acq: 11 Jun 2019 11:01

Tgt Ion: 78 Resp: 22585

Ion Ratio Lower Upper

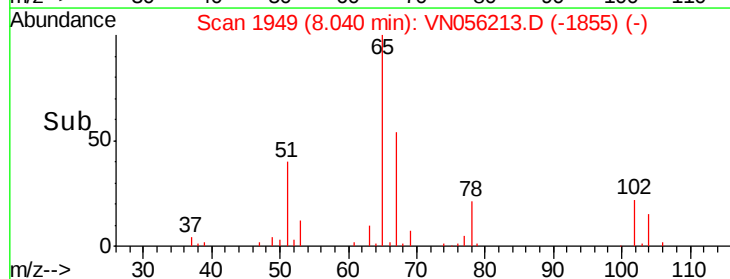
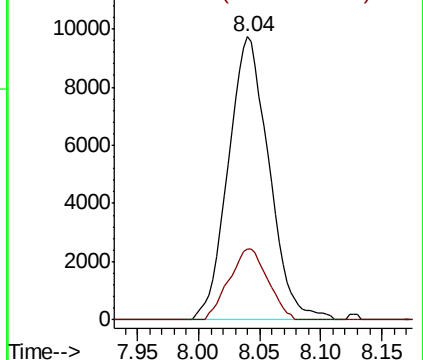
78 100

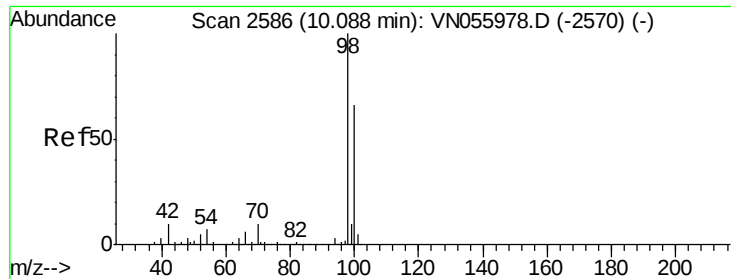
77 25.1 18.8 28.2



Abundance Ion 78.00 (77.70 to 78.70): V

Ion 77.00 (76.70 to 77.70): V





#50

Toluene-d8

Concen: 54.183 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056213.D

Acq: 11 Jun 2019 11:01

Instrument :

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ClientSampleId :

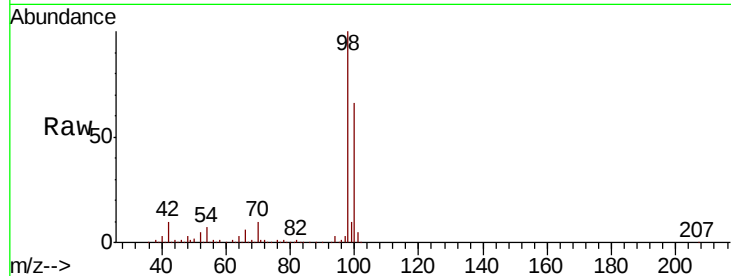
MW-1ADL

Tot Ion: 98 Resp: 572181

Ion Ratio Lower Upper

98 100

100 65.3 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN055978.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN055978.D (-2570) (-)

10.09

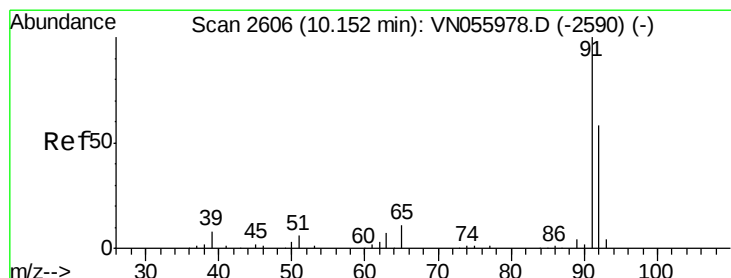
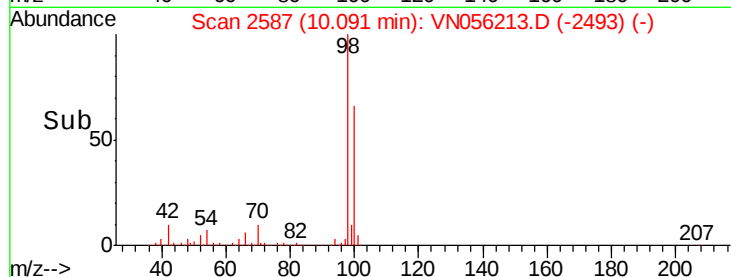
300000

200000

100000

0

Time-->



#52

Toluene

Concen: 2.291 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN056213.D

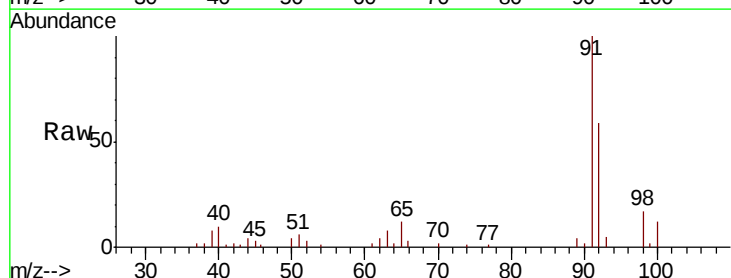
Acq: 11 Jun 2019 11:01

Tgt Ion: 92 Resp: 16651

Ion Ratio Lower Upper

92 100

91 173.0 139.4 209.2



Abundance Ion 92.00 (91.70 to 92.70): VN055978.D (-2590) (-)

Ion 91.00 (90.70 to 91.70): VN055978.D (-2590) (-)

10.16

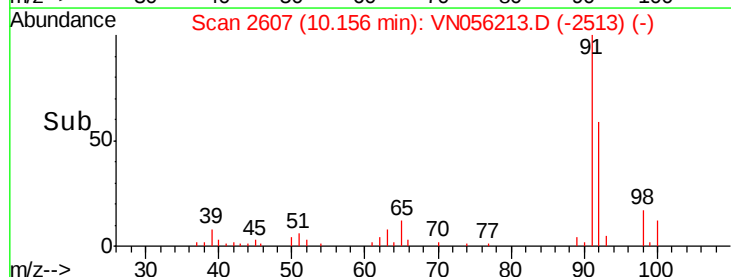
15000

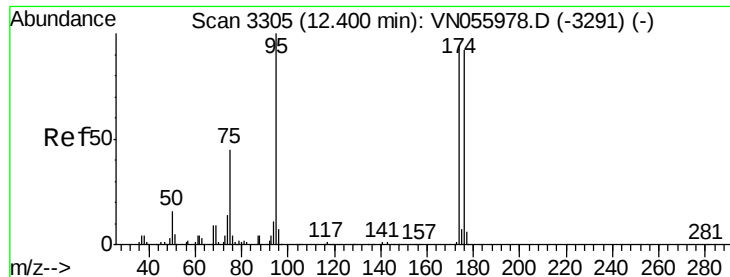
10000

5000

0

Time-->





#62

4-Bromofluorobenzene

Concen: 53.324 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN056213.D

Acq: 11 Jun 2019 11:01

Instrument :

MSVOA_N

ClientSampleId :

MW-1ADL

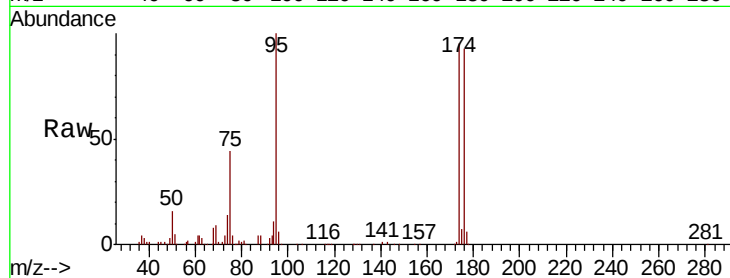
Tot Ion: 95 Resp: 191501

Ion Ratio Lower Upper

95 100

174 98.2 0.0 191.0

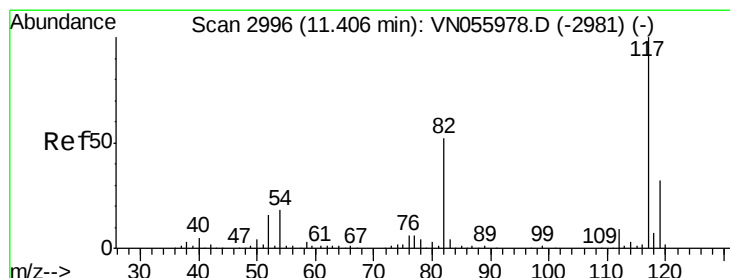
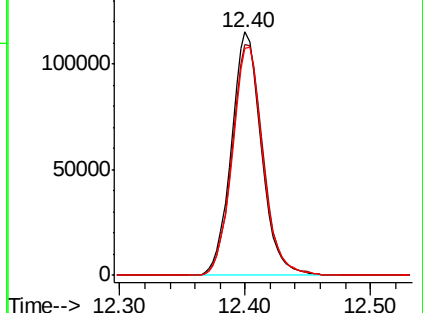
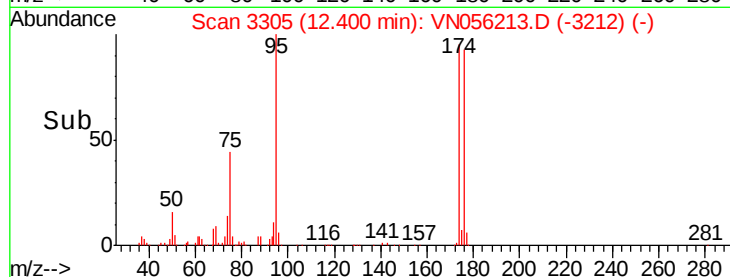
176 95.5 0.0 185.2



Abundance Ion 94.90 (94.60 to 95.60): VN056213.D (-2903) (-)

Ion 173.80 (173.50 to 174.50): VN056213.D (-2903) (-)

Ion 175.80 (175.50 to 176.50): VN056213.D (-2903) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN056213.D

Acq: 11 Jun 2019 11:01

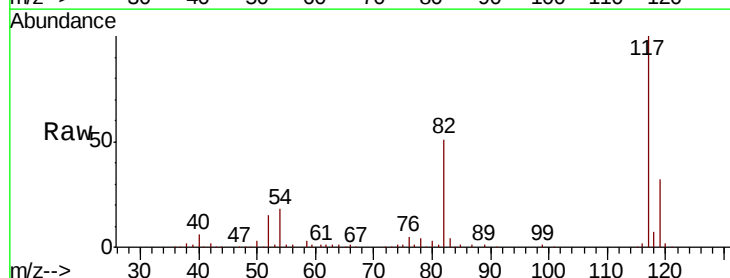
Tgt Ion: 117 Resp: 440703

Ion Ratio Lower Upper

117 100

82 51.4 41.8 62.8

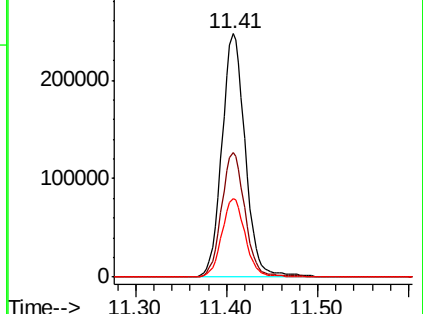
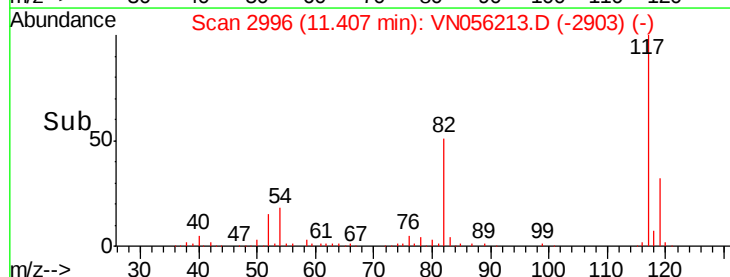
119 32.4 25.4 38.0

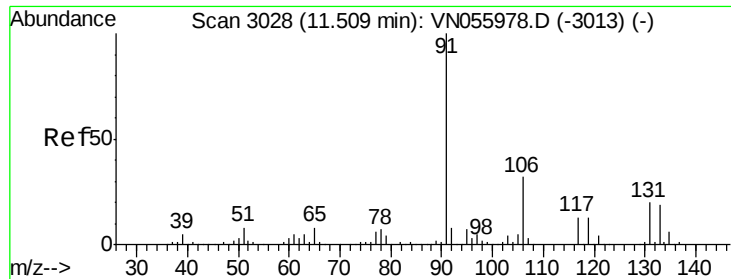


Abundance Ion 116.90 (116.60 to 117.60): VN056213.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN056213.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN056213.D (-2903) (-)

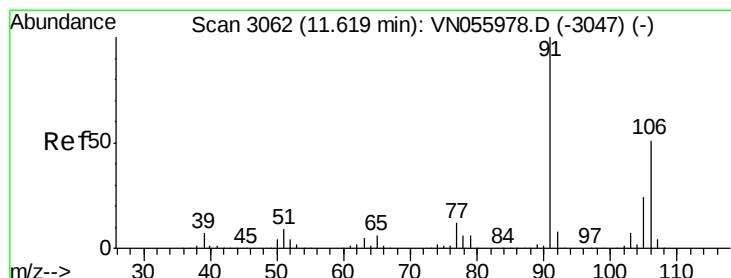
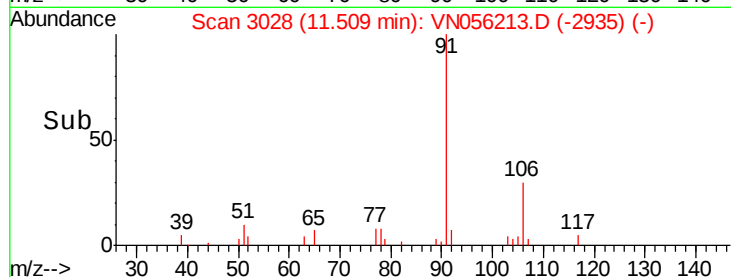
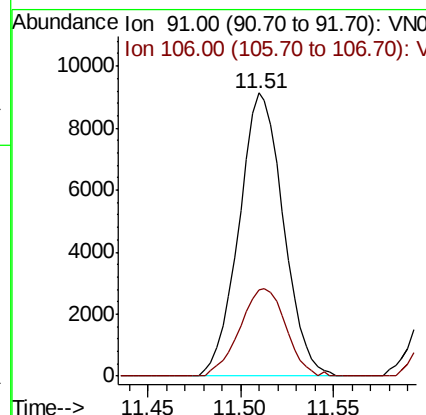
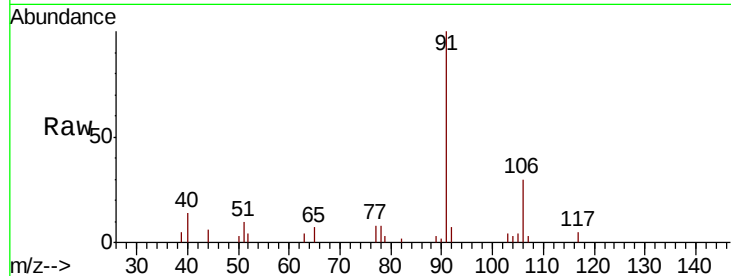




#67
Ethyl Benzene
Concen: 0.995 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN056213.D
Acq: 11 Jun 2019 11:01

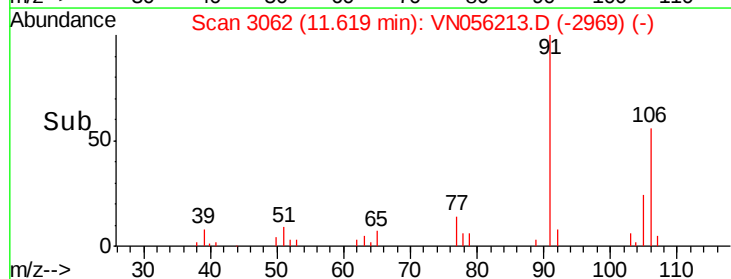
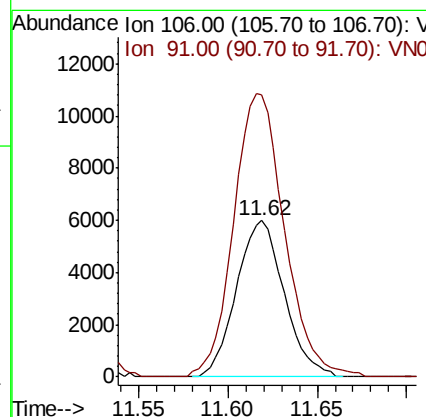
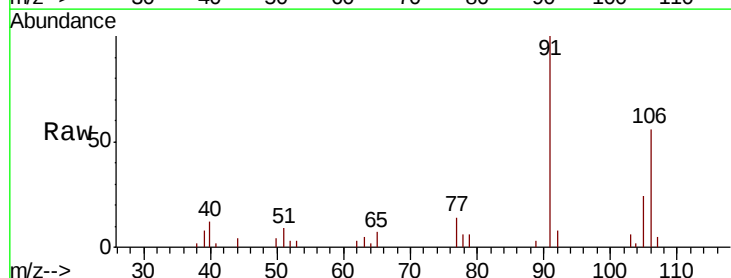
Instrument :
MSVOA_N
ClientSampled :
MW-1ADL

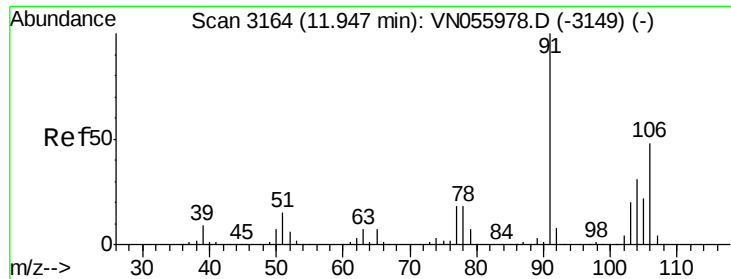
Tot Ion: 91 Resp: 15174
Ion Ratio Lower Upper
91 100
106 30.3 25.1 37.7



#68
m/p-Xylenes
Concen: 1.921 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN056213.D
Acq: 11 Jun 2019 11:01

Tgt Ion: 106 Resp: 11193
Ion Ratio Lower Upper
106 100
91 192.6 159.3 238.9

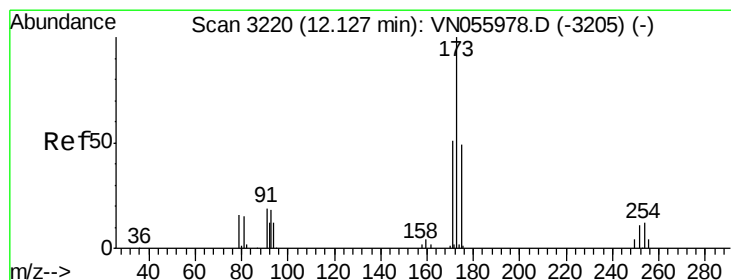
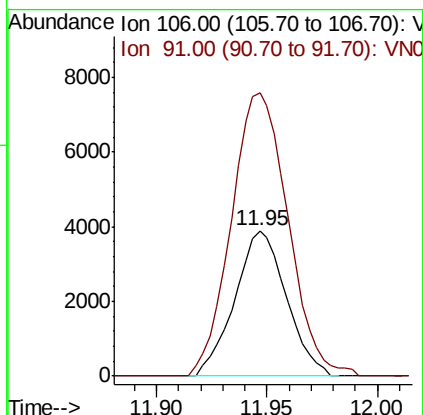
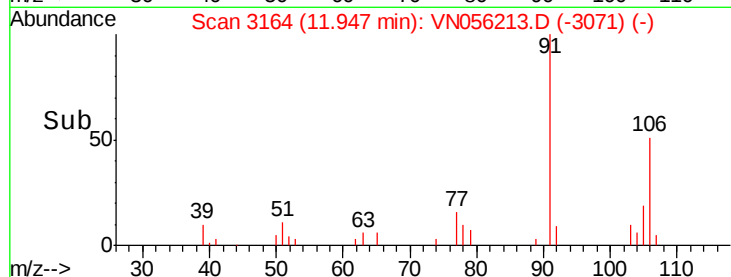
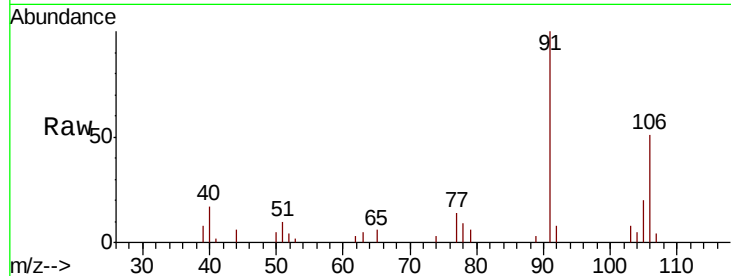




#69
o-Xylene
Concen: 1.098 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN056213.D
Acq: 11 Jun 2019 11:01

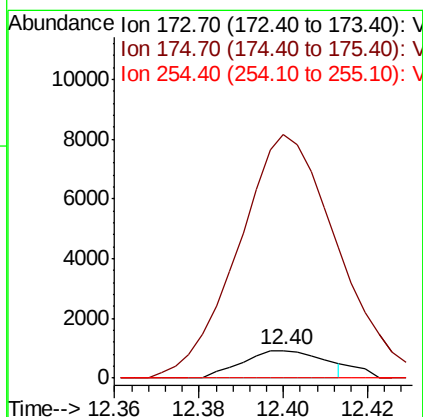
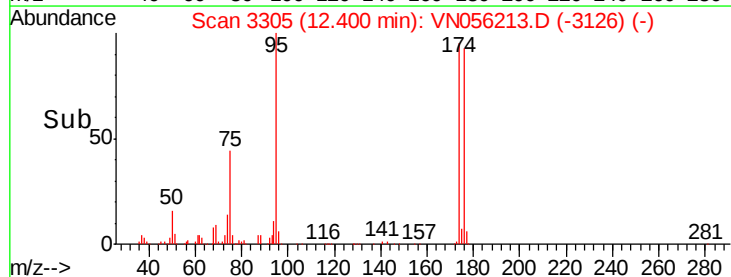
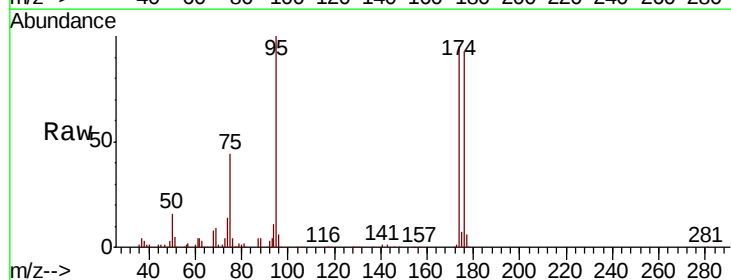
Instrument :
MSVOA_N
ClientSampleId :
MW-1ADL

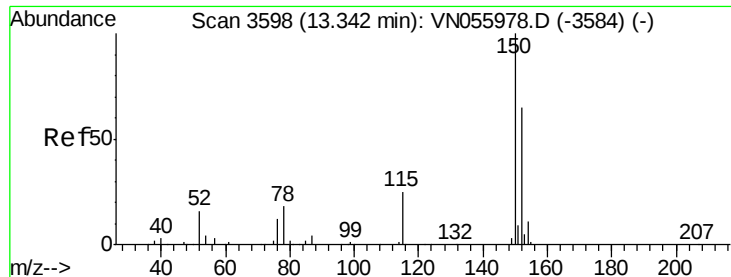
Tot Ion:106 Resp: 6294
Ion Ratio Lower Upper
106 100
91 214.8 104.7 314.1



#71
Bromoform
Concen: 3.201 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN056213.D
Acq: 11 Jun 2019 11:01

Tgt Ion:173 Resp: 1235
Ion Ratio Lower Upper
173 100
175 946.8 24.3 72.8#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN056213.D

Acq: 11 Jun 2019 11:01

Instrument :

MSVOA_N

ClientSampleId :

MW-1ADL

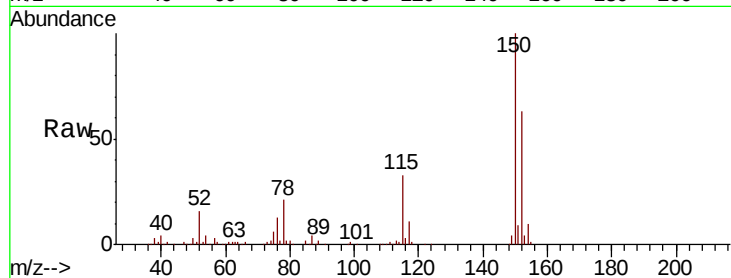
Tot Ion:152 Resp: 159869

Ion Ratio Lower Upper

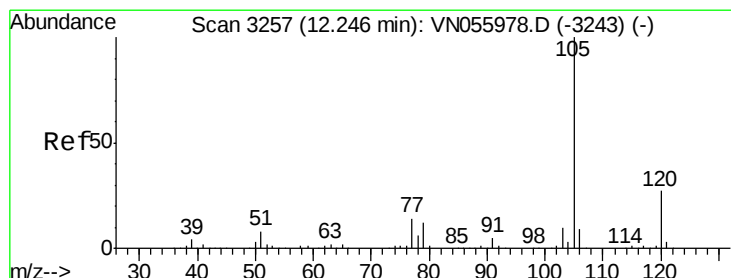
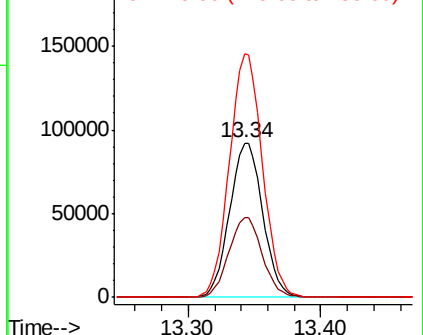
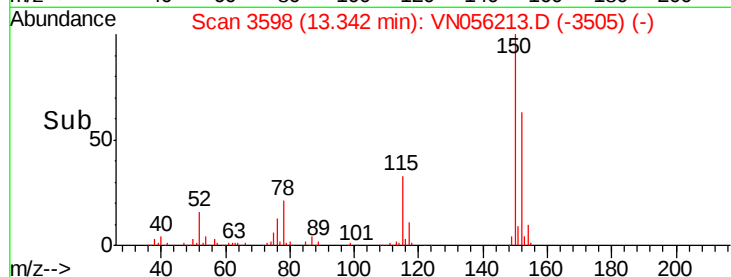
152 100

115 51.5 27.0 81.0

150 157.0 0.0 343.2



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



#73

Isopropylbenzene

Concen: Below Cal

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN056213.D

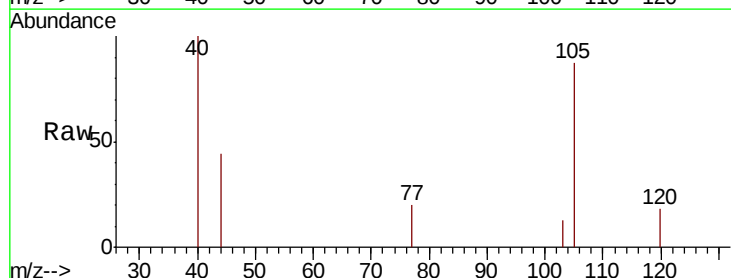
Acq: 11 Jun 2019 11:01

Tgt Ion:105 Resp: 1605

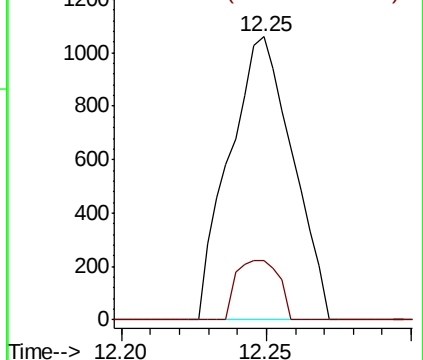
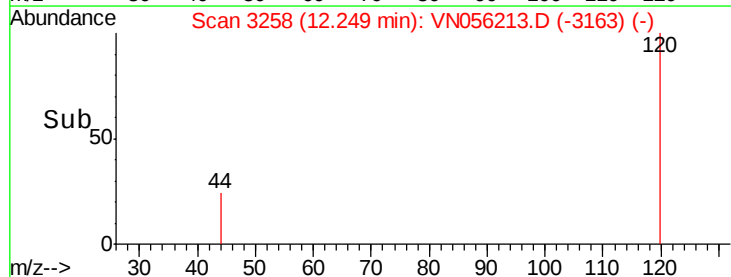
Ion Ratio Lower Upper

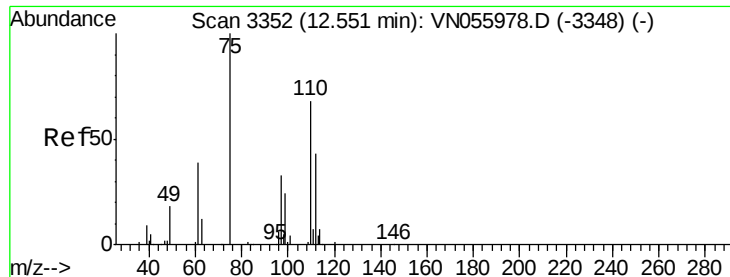
105 100

120 14.1 13.6 40.7



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#76

1,2,3-Trichloropropane

Concen: 28.907 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056213.D

Acq: 11 Jun 2019 11:01

Instrument :

MSVOA_N

ClientSampleId :

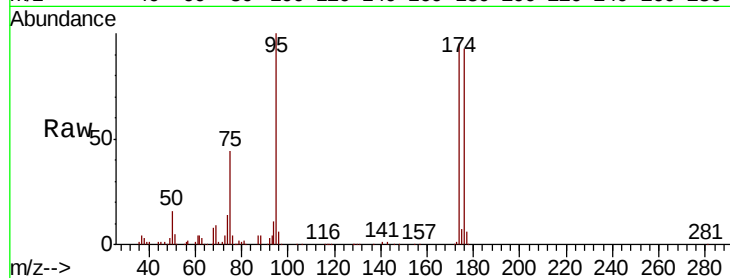
MW-1ADL

Tot Ion: 75 Resp: 85035

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

60000

50000

40000

30000

20000

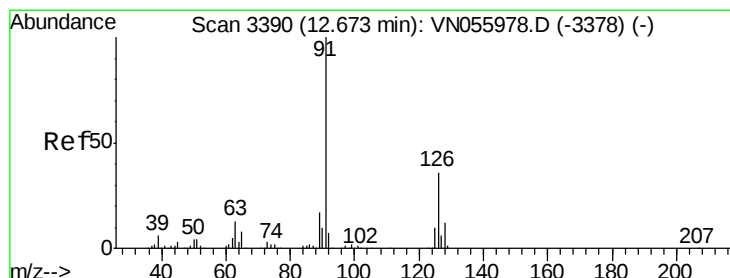
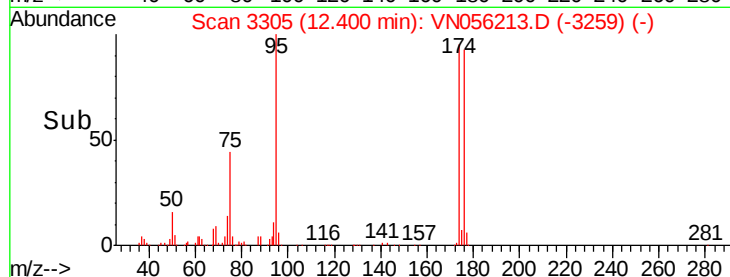
10000

0

12.40

12.50

Time-->



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.66 min Scan# 3385

Delta R.T. -0.02 min

Lab File: VN056213.D

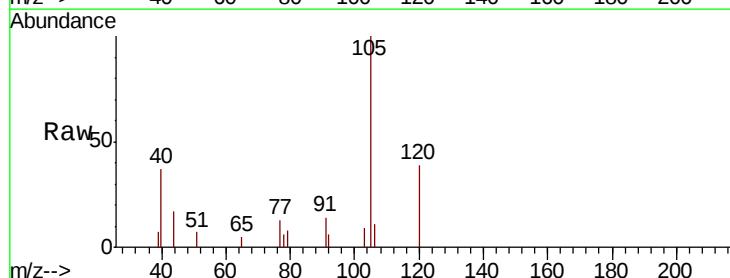
Acq: 11 Jun 2019 11:01

Tgt Ion: 91 Resp: 1266

Ion Ratio Lower Upper

91 100

126 0.0 18.1 54.4#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

600

500

400

300

200

100

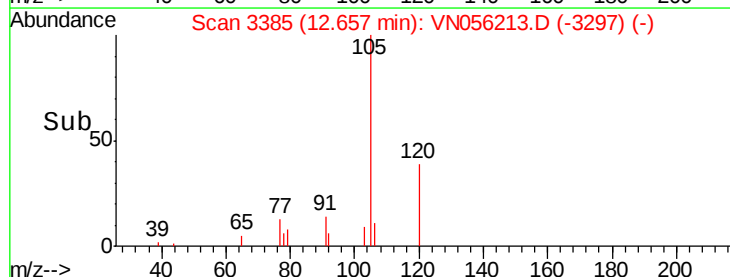
0

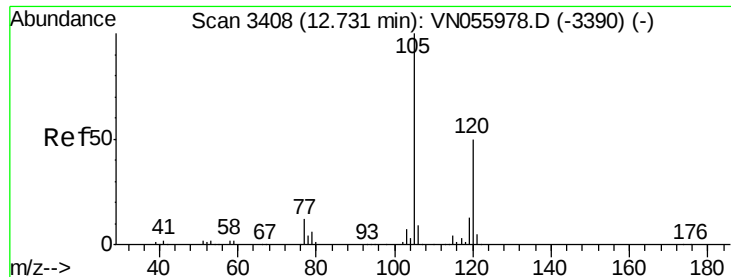
12.60

12.65

12.70

Time-->





#80

1,3,5-Trimethylbenzene

Concen: 0.316 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN056213.D

Acq: 11 Jun 2019 11:01

Instrument :

MSVOA_N

ClientSampled :

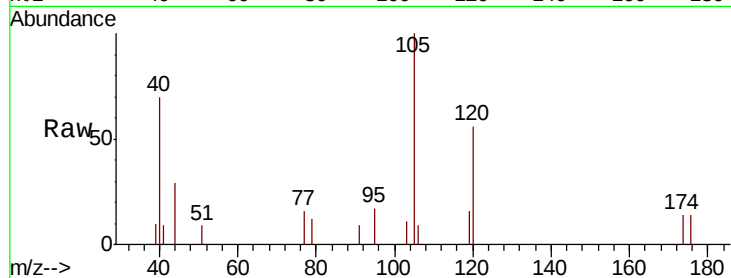
MW-1ADL

Tot Ion:105 Resp: 3400

Ion Ratio Lower Upper

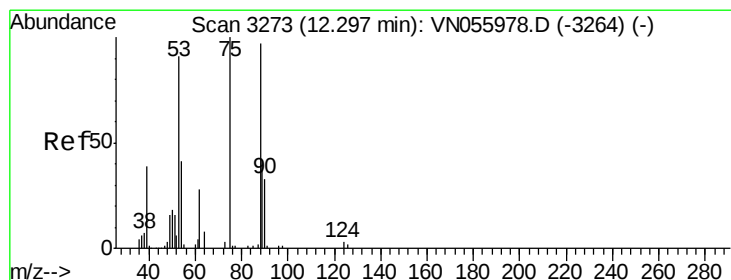
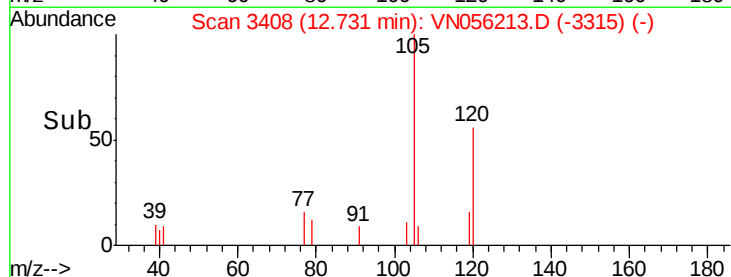
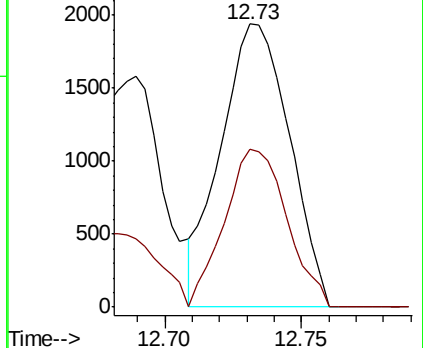
105 100

120 50.5 24.7 74.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 96.266 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056213.D

Acq: 11 Jun 2019 11:01

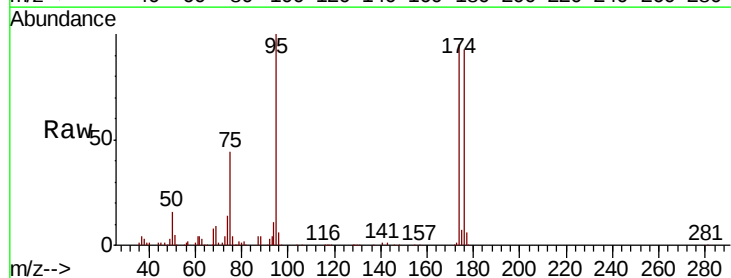
Tgt Ion: 75 Resp: 85035

Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

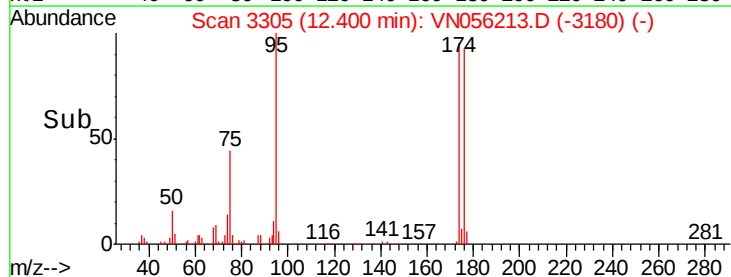
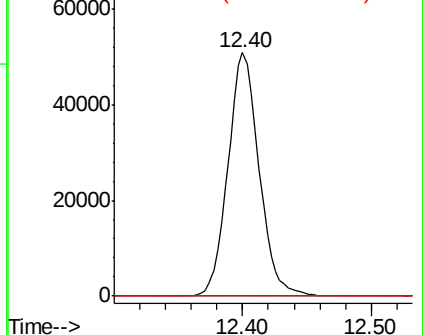
89 0.0 36.9 55.3#

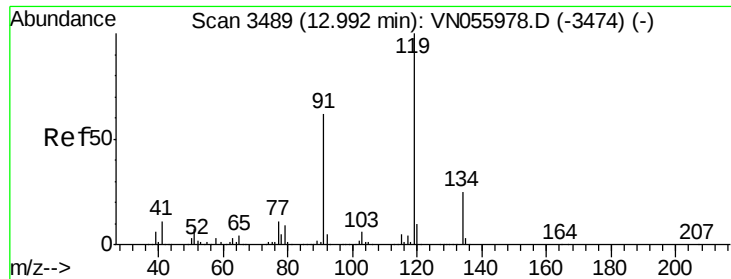


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

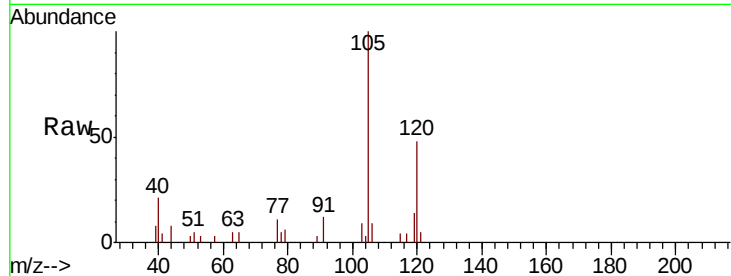




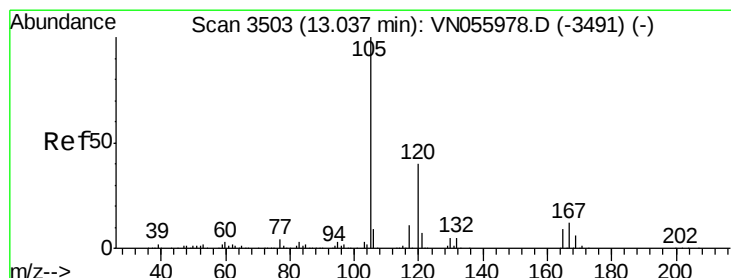
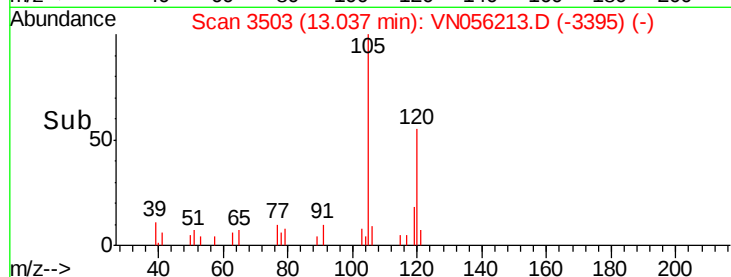
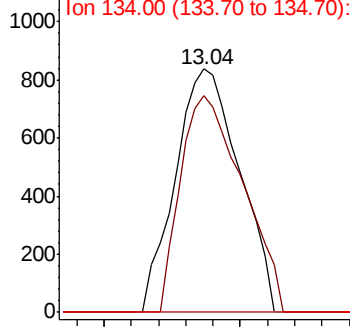
#83
tert-Butylbenzene
Concen: Below Cal
RT: 13.04 min Scan# 3503
Delta R.T. 0.05 min
Lab File: VN056213.D
Acq: 11 Jun 2019 11:01

Instrument :
MSVOA_N
ClientSampled :
MW-1ADL

Tot Ion:119 Resp: 1368
Ion Ratio Lower Upper
119 100
91 86.5 30.9 92.8
134 0.0 13.3 39.8#

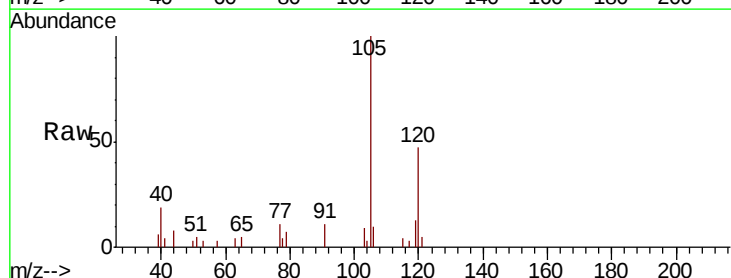


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V

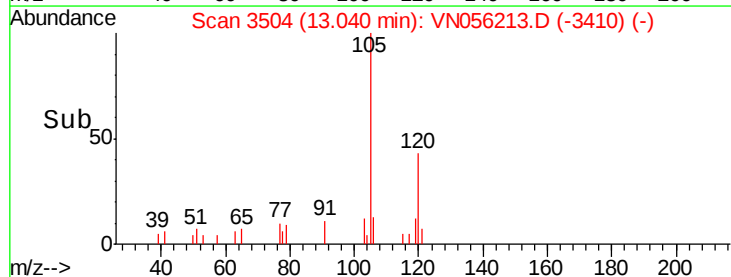
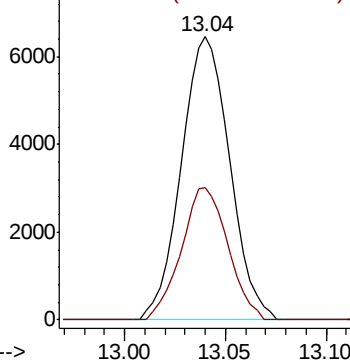


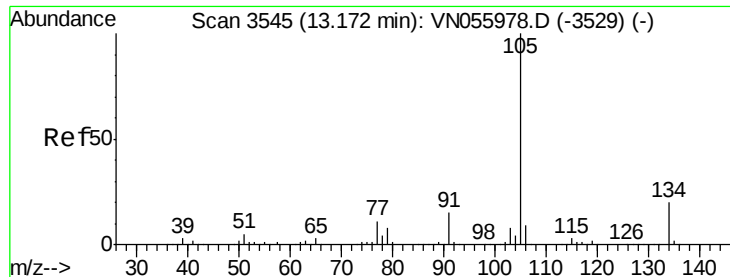
#84
1,2,4-Trimethylbenzene
Concen: 1.063 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN056213.D
Acq: 11 Jun 2019 11:01

Tgt Ion:105 Resp: 10837
Ion Ratio Lower Upper
105 100
120 45.0 23.0 69.0



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 0.905 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. -0.13 min

Lab File: VN056213.D

Acq: 11 Jun 2019 11:01

Instrument :

MSVOA_N

ClientSampled :

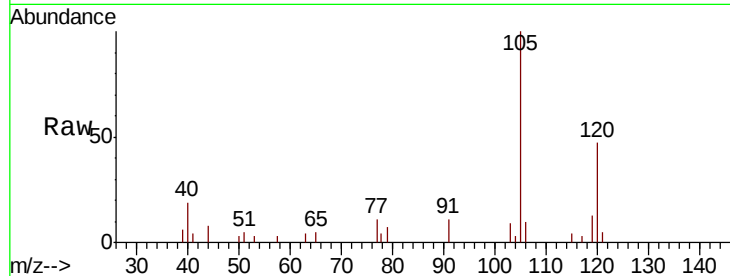
MW-1ADL

Tot Ion:105 Resp: 10837

Ion Ratio Lower Upper

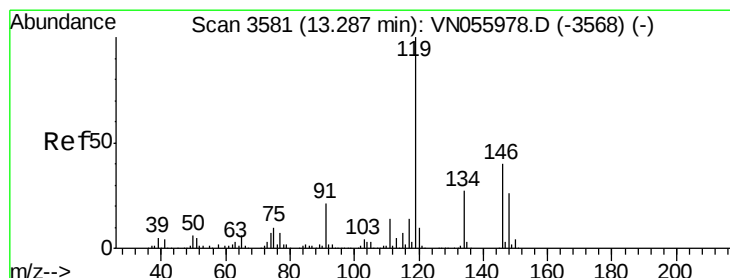
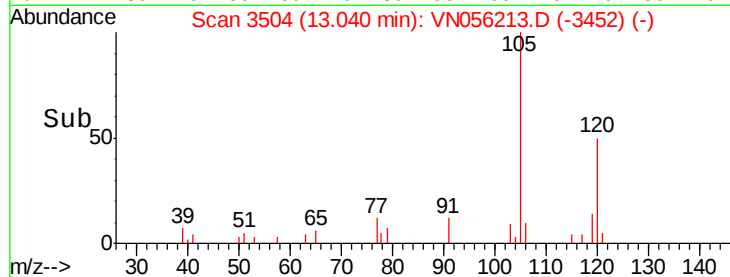
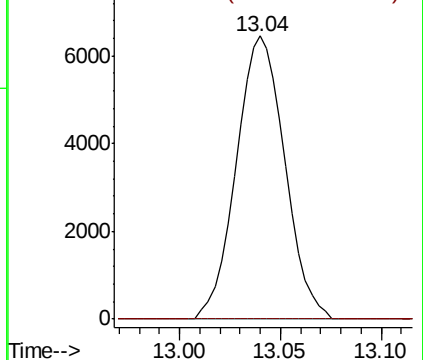
105 100

134 0.0 10.4 31.2#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 0.269 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. -0.00 min

Lab File: VN056213.D

Acq: 11 Jun 2019 11:01

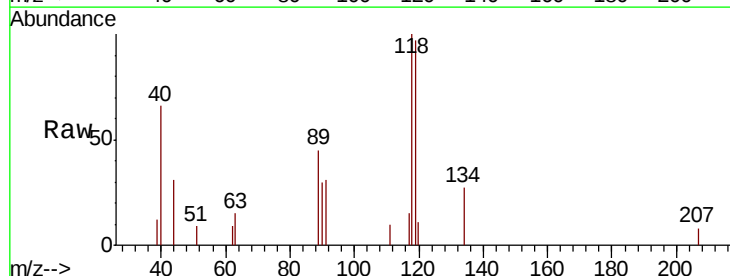
Tgt Ion:119 Resp: 2887

Ion Ratio Lower Upper

119 100

134 25.3 13.4 40.1

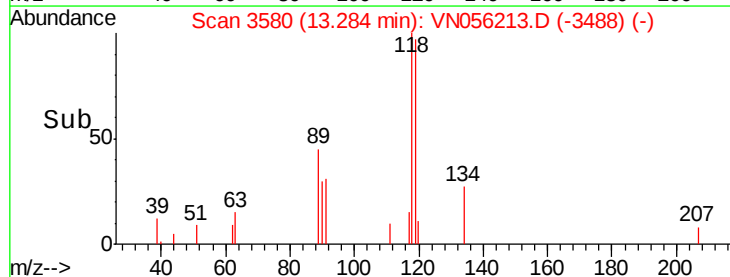
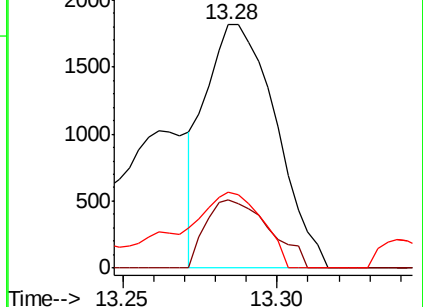
91 41.2 10.9 32.9#

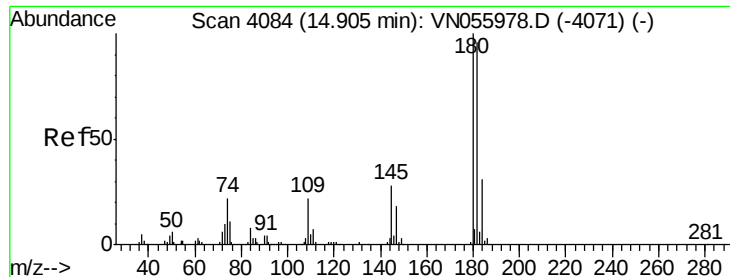


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

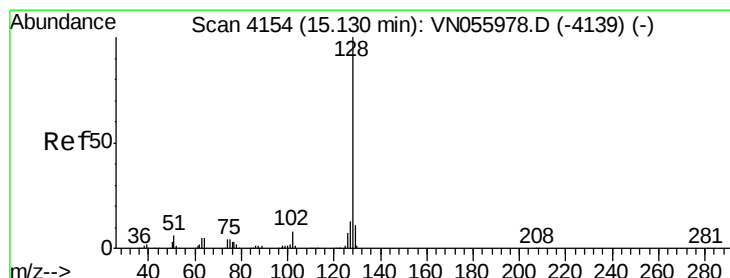
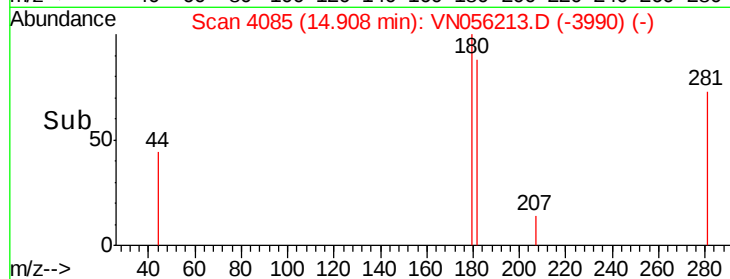
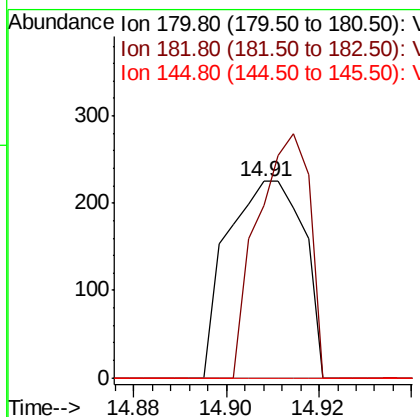
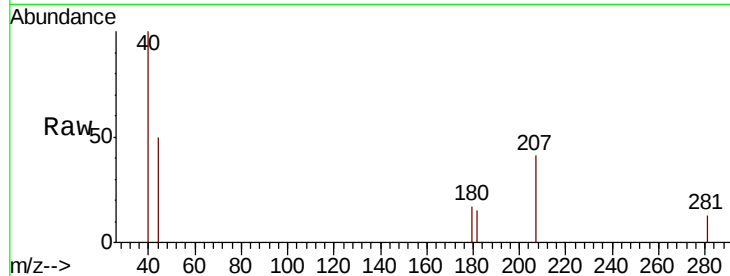




#93
 1,2,4-Trichlorobenzene
 Concen: 4.349 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN056213.D
 Acq: 11 Jun 2019 11:01

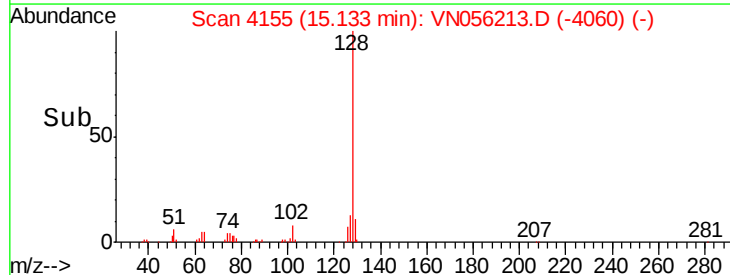
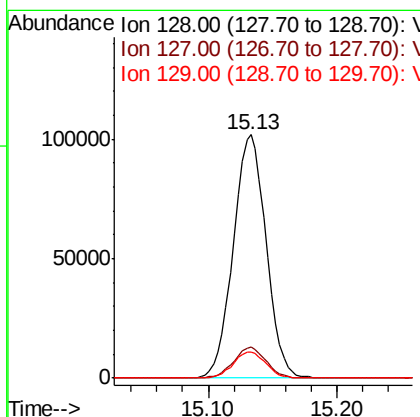
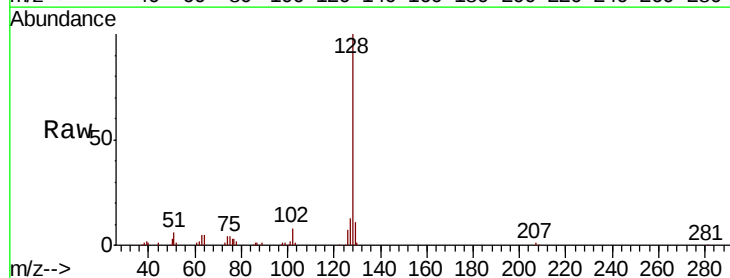
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-1ADL

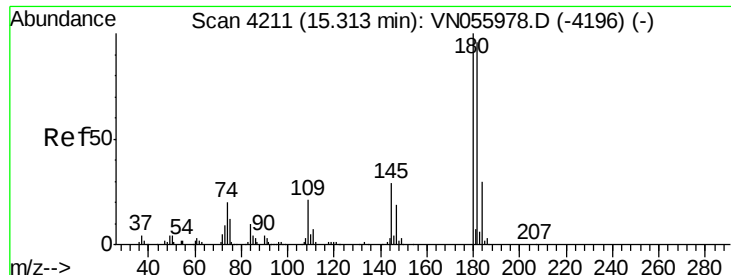
Tot Ion:180 Resp: 257
 Ion Ratio Lower Upper
 180 100
 182 84.0 48.3 144.9
 145 0.0 14.0 41.9#



#95
 Naphthalene
 Concen: 25.597 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN056213.D
 Acq: 11 Jun 2019 11:01

Tgt Ion:128 Resp: 180154
 Ion Ratio Lower Upper
 128 100
 127 12.5 10.3 15.5
 129 10.8 8.7 13.1

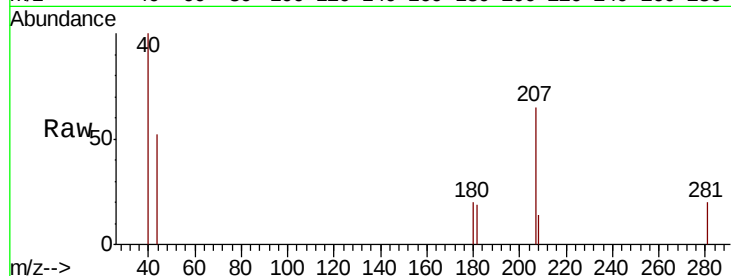




#96
 1,2,3-Trichlorobenzene
 Concen: 3.145 ug/l
 RT: 15.31 min Scan# 4211
 Delta R.T. 0.00 min
 Lab File: VN056213.D
 Acq: 11 Jun 2019 11:01

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-1ADL

Tot Ion	Ratio	Lower	Upper
180	100		
182	78.6	47.9	143.7
145	8.8	14.9	44.7#



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

