

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061119\
 Data File : VN056211.D
 Acq On : 11 Jun 2019 10:11
 Operator : JC/SP
 Sample : K3225-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SP19-GM25-TB1

Quant Time: Jun 12 06:31:31 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

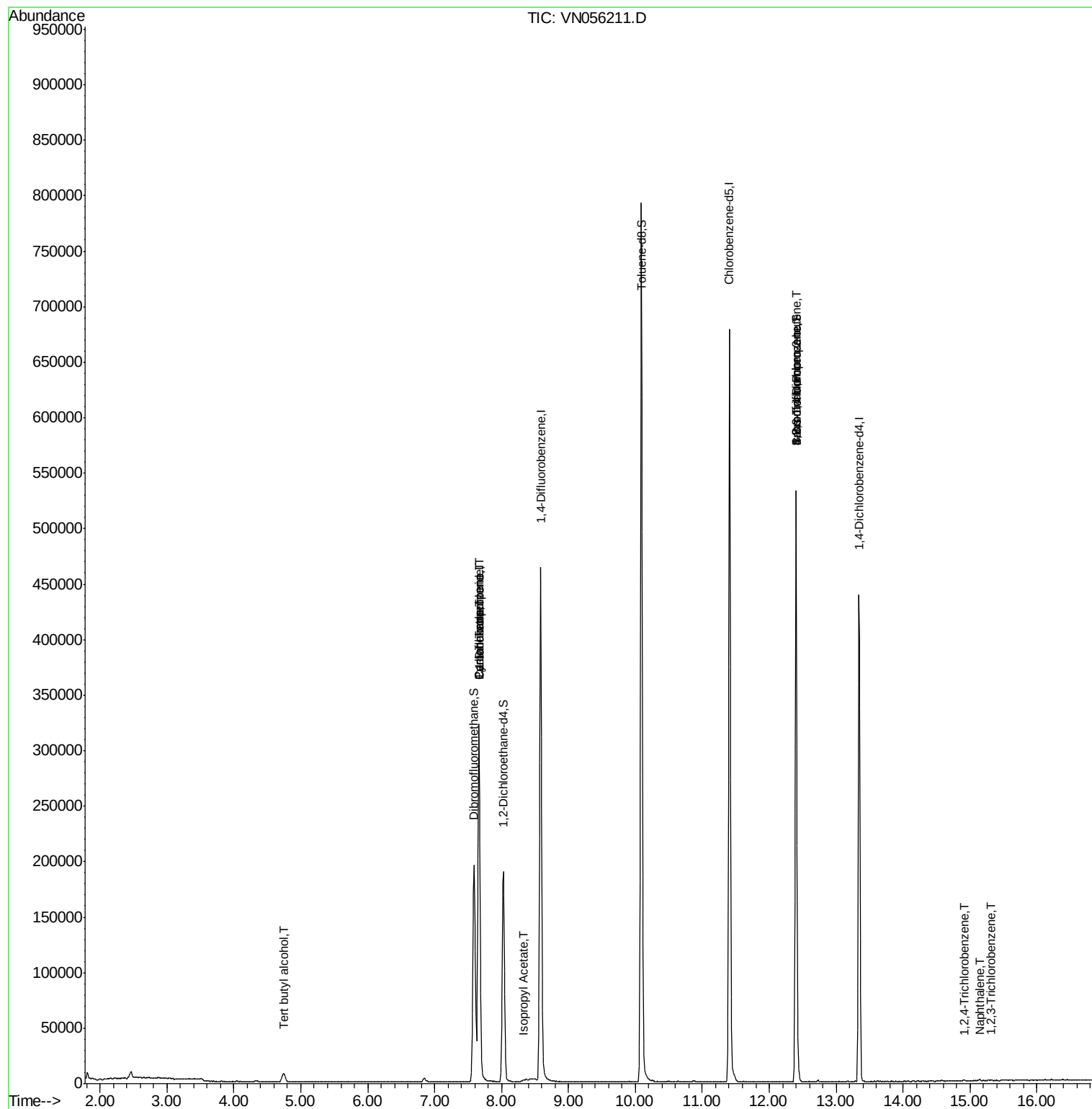
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	304495	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	460676	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	449700	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	142920	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	160357	53.04	ug/l	0.00
Spiked Amount 50.000			Recovery	=	106.08%	
35) Dibromofluoromethane	7.59	113	151683	53.67	ug/l	0.00
Spiked Amount 50.000			Recovery	=	107.34%	
50) Toluene-d8	10.09	98	590615	54.30	ug/l	0.00
Spiked Amount 50.000			Recovery	=	108.60%	
62) 4-Bromofluorobenzene	12.40	95	187058	50.57	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.14%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.74	59	7403	14.071	ug/l #	74
31) Cyclohexane	7.66	56	4157	0.866	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	16980	4.287	ug/l #	47
38) Carbon Tetrachloride	7.66	117	25172	6.893	ug/l #	15
43) Isopropyl Acetate	8.32	43	1188	0.208	ug/l #	53
71) Bromoform	12.40	173	1416	3.258	ug/l #	1
73) Isopropylbenzene	12.25	105	188	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	85343	32.452	ug/l #	100
79) 2-Chlorotoluene	12.67	91	65	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	85343	108.073	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.91	180	749	4.530	ug/l #	74
94) Hexachlorobutadiene	15.01	225	166	Below Cal	#	19
95) Naphthalene	15.14	128	1420	4.043	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.31	180	518	3.212	ug/l #	68

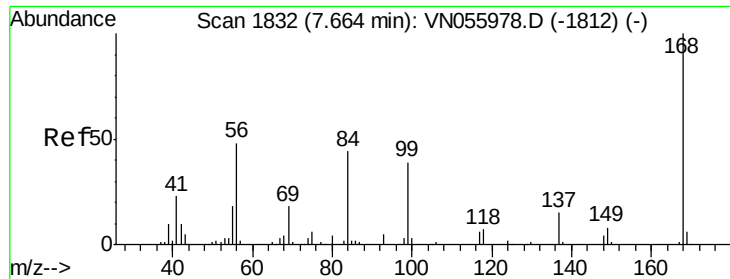
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN056211.D

Acq: 11 Jun 2019 10:11

Instrument :

MSVOA_N

ClientSampleId :

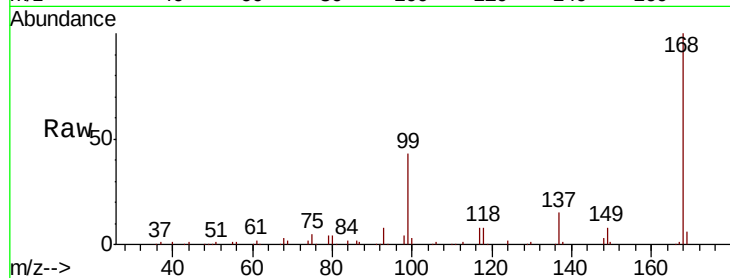
SP19-GM25-TB1

Tot Ion:168 Resp: 304495

Ion Ratio Lower Upper

168 100

99 43.1 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): VN055978.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN055978.D (-1812) (-)

7.66

150000

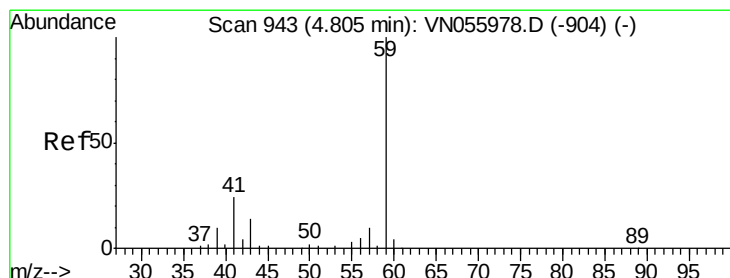
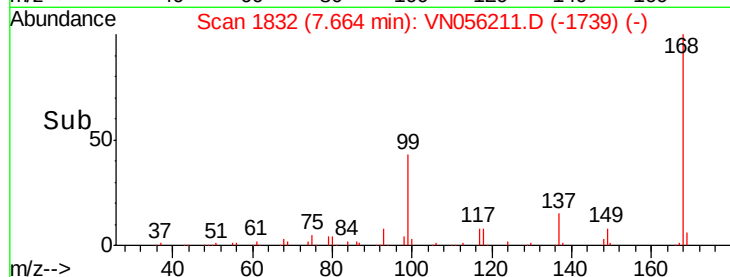
100000

50000

0

7.60 7.70 7.80

Time-->



#11

Tert butyl alcohol

Concen: 14.071 ug/l

RT: 4.74 min Scan# 924

Delta R.T. -0.06 min

Lab File: VN056211.D

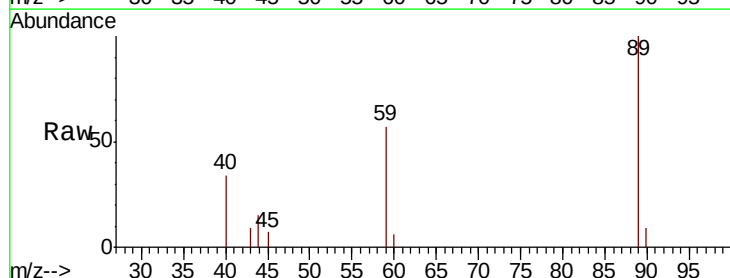
Acq: 11 Jun 2019 10:11

Tgt Ion: 59 Resp: 7403

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN055978.D (-904) (-)

Ion 57.00 (56.70 to 57.70): VN055978.D (-904) (-)

4.74

2500

2000

1500

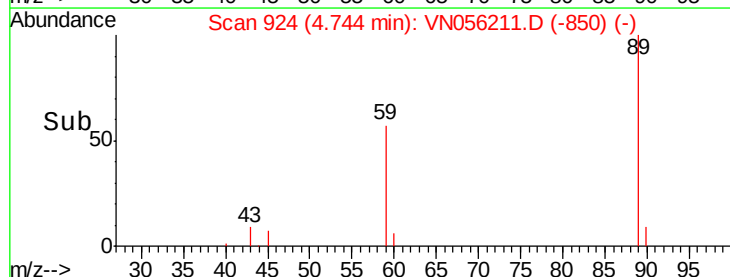
1000

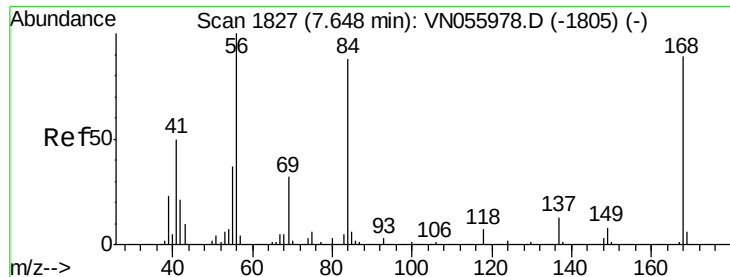
500

0

4.65 4.70 4.75 4.80

Time-->

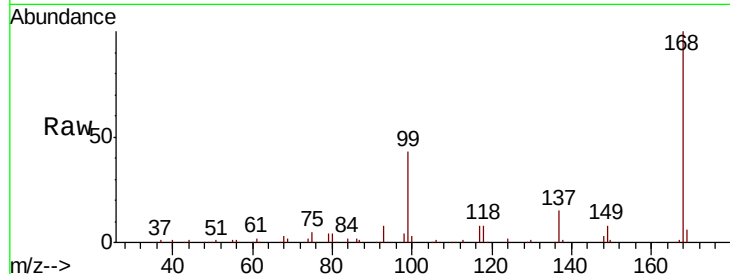




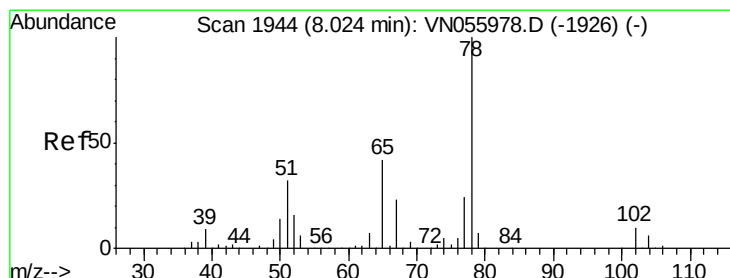
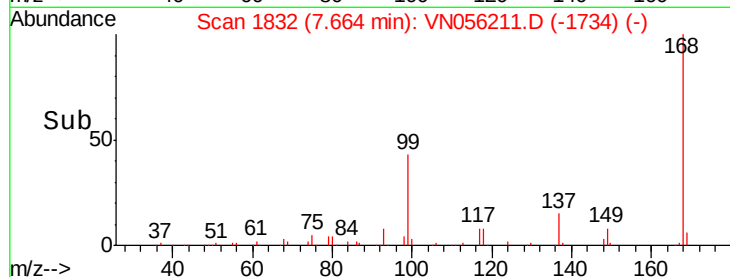
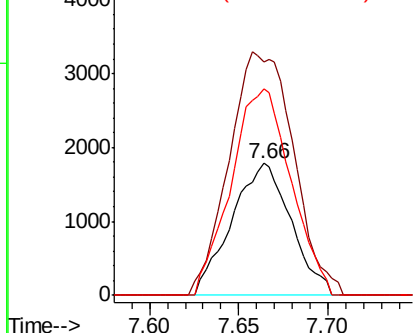
#31
Cyclohexane
Concen: 0.866 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.02 min
Lab File: VN056211.D
Acq: 11 Jun 2019 10:11

Instrument :
MSVOA_N
ClientSampleId :
SP19-GM25-TB1

Tot Ion: 56 Resp: 4157
Ion Ratio Lower Upper
56 100
69 176.4 25.6 38.4#
84 156.9 67.4 101.0#

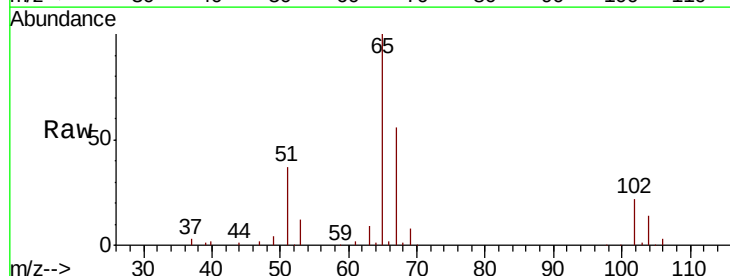


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

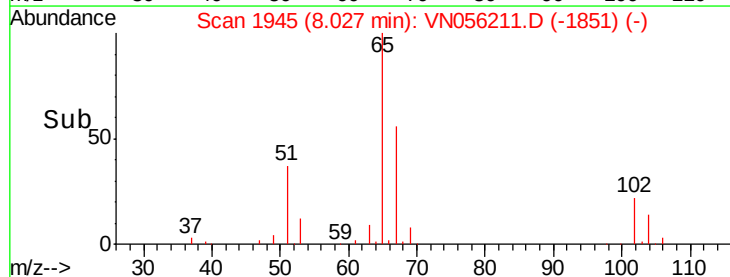
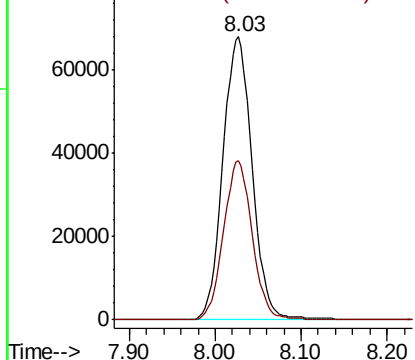


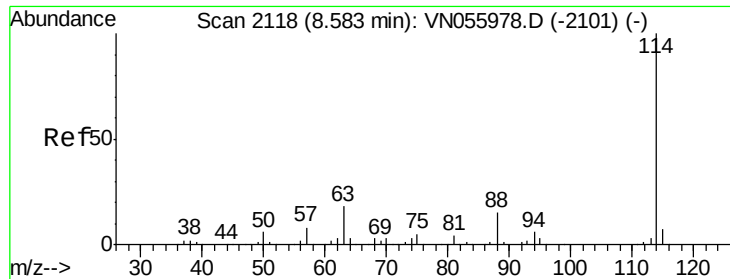
#33
1,2-Dichloroethane-d4
Concen: 53.039 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN056211.D
Acq: 11 Jun 2019 10:11

Tgt Ion: 65 Resp: 160357
Ion Ratio Lower Upper
65 100
67 55.3 0.0 109.2



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

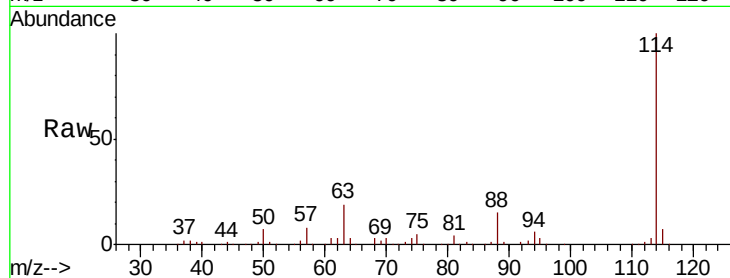




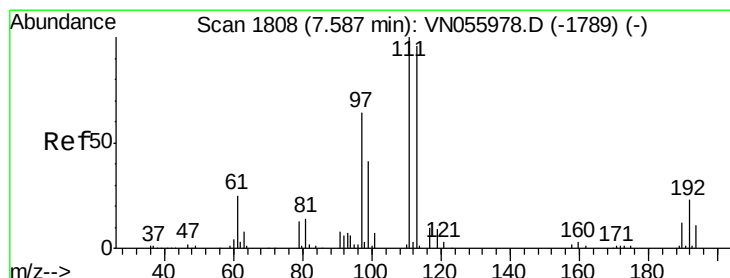
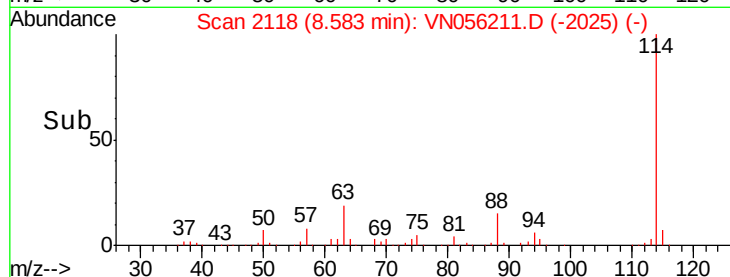
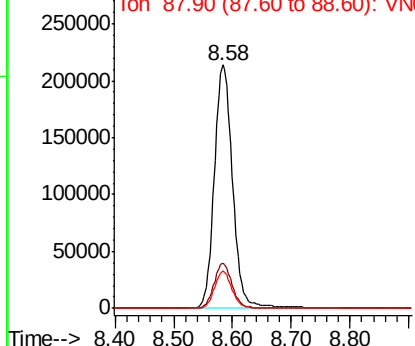
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN056211.D
 Acq: 11 Jun 2019 10:11

Instrument :
 MSVOA_N
 ClientSampleId :
 SP19-GM25-TB1

Tot Ion:114 Resp: 460676
 Ion Ratio Lower Upper
 114 100
 63 18.6 0.0 39.2
 88 15.2 0.0 31.0

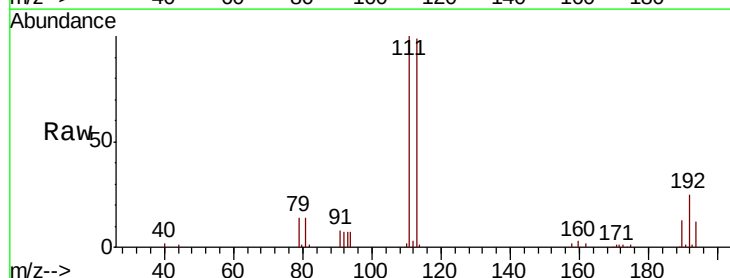


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

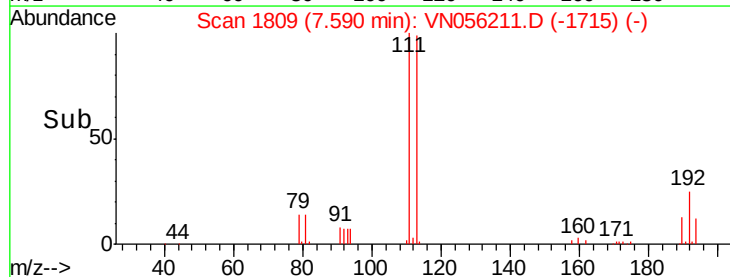
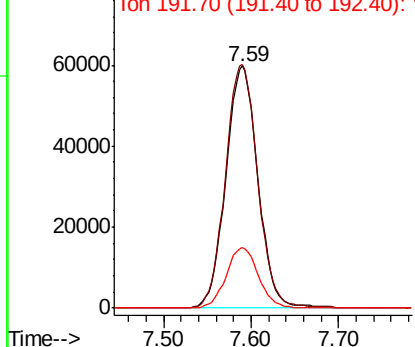


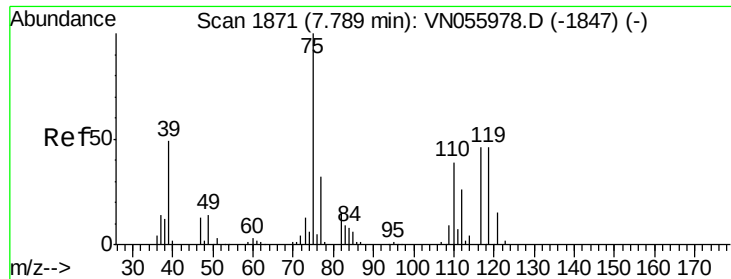
#35
 Dibromofluoromethane
 Concen: 53.667 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN056211.D
 Acq: 11 Jun 2019 10:11

Tgt Ion:113 Resp: 151683
 Ion Ratio Lower Upper
 113 100
 111 101.8 81.9 122.9
 192 24.9 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

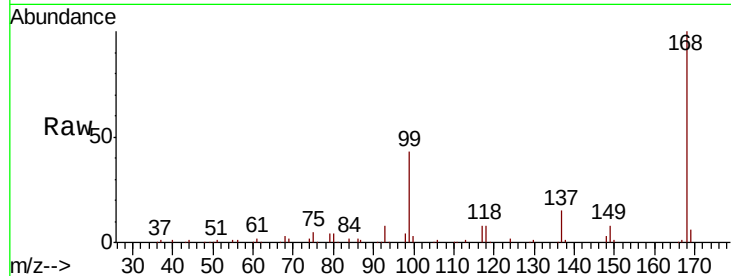




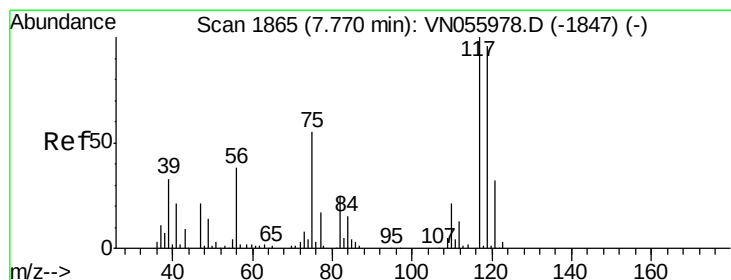
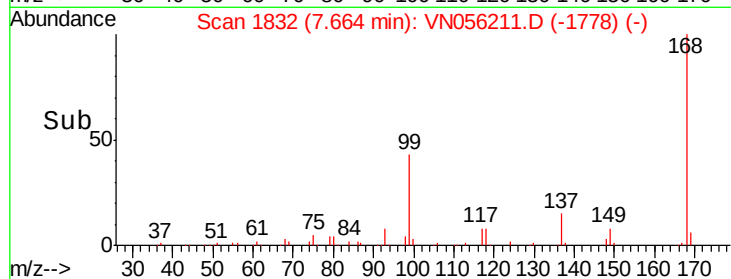
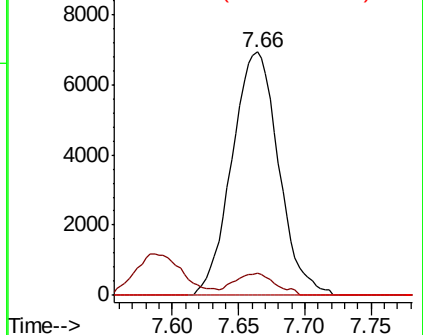
#36
 1,1-Dichloropropene
 Concen: 4.287 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN056211.D
 Acq: 11 Jun 2019 10:11

Instrument :
 MSVOA_N
 ClientSampleId :
 SP19-GM25-TB1

Tot Ion	Ratio	Lower	Upper
75	100		
110	8.1	19.0	57.0#
77	0.0	25.1	37.7#

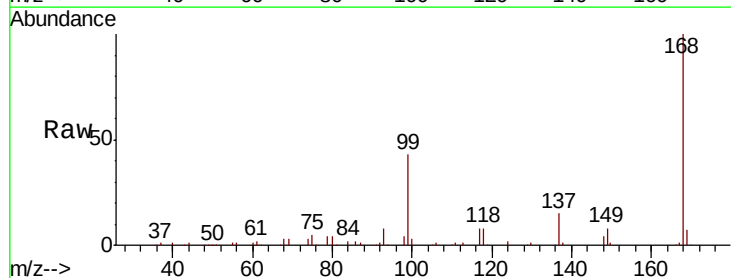


Abundance Ion 74.90 (74.60 to 75.60): VN055978.D (-1847) (-)
 Ion 109.90 (109.60 to 110.60): VN055978.D (-1847) (-)
 Ion 76.90 (76.60 to 77.60): VN055978.D (-1847) (-)

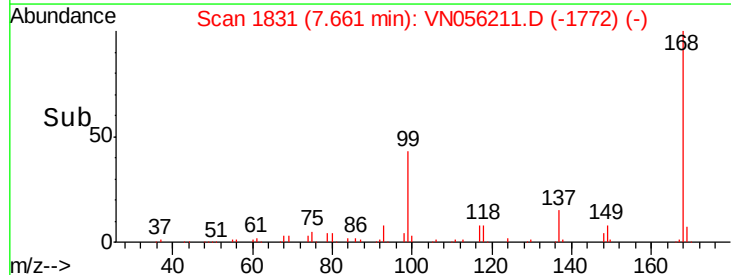
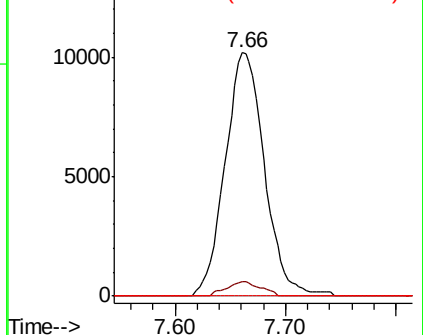


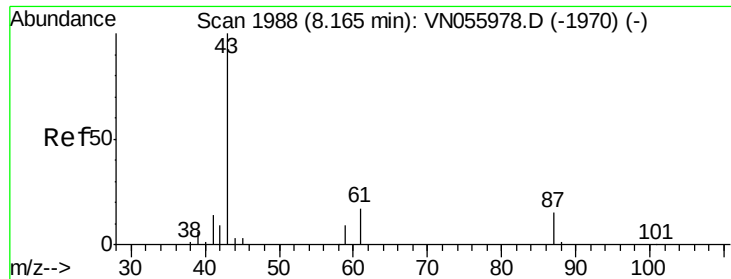
#38
 Carbon Tetrachloride
 Concen: 6.893 ug/l
 RT: 7.66 min Scan# 1831
 Delta R.T. -0.11 min
 Lab File: VN056211.D
 Acq: 11 Jun 2019 10:11

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.0	79.0	118.6#
121	0.0	24.7	37.1#



Abundance Ion 116.80 (116.50 to 117.50): VN055978.D (-1847) (-)
 Ion 118.80 (118.50 to 119.50): VN055978.D (-1847) (-)
 Ion 120.80 (120.50 to 121.50): VN055978.D (-1847) (-)





#43

Isopropyl Acetate

Concen: 0.208 ug/l

RT: 8.32 min Scan# 2035

Delta R.T. 0.15 min

Lab File: VN056211.D

Acq: 11 Jun 2019 10:11

Instrument :

MSVOA_N

ClientSampleId :

SP19-GM25-TB1

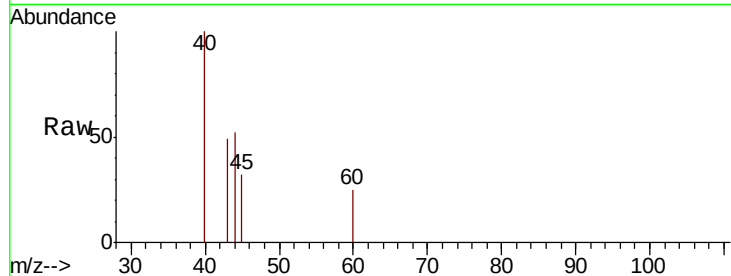
Tot Ion: 43 Resp: 1188

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

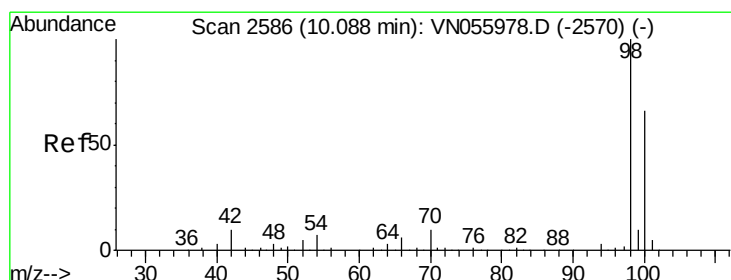
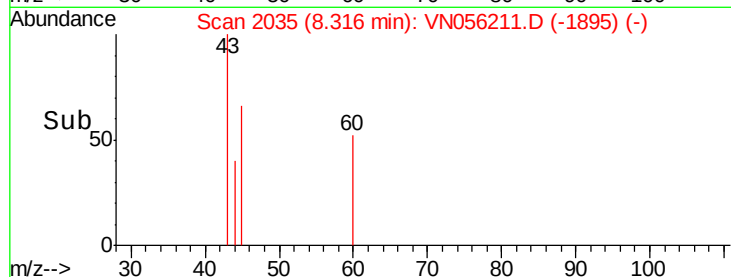
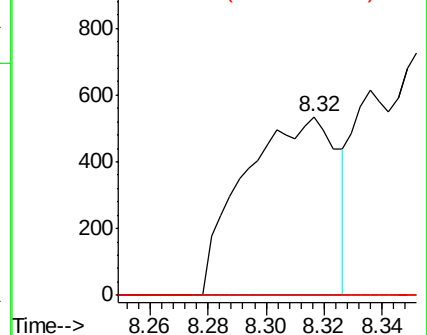
87 0.0 11.4 17.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#50

Toluene-d8

Concen: 54.304 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN056211.D

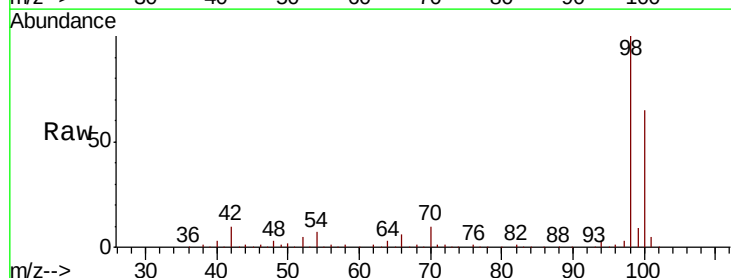
Acq: 11 Jun 2019 10:11

Tgt Ion: 98 Resp: 590615

Ion Ratio Lower Upper

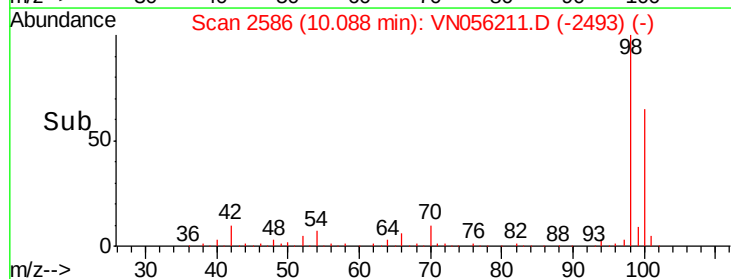
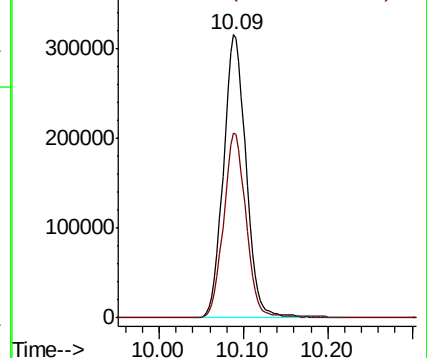
98 100

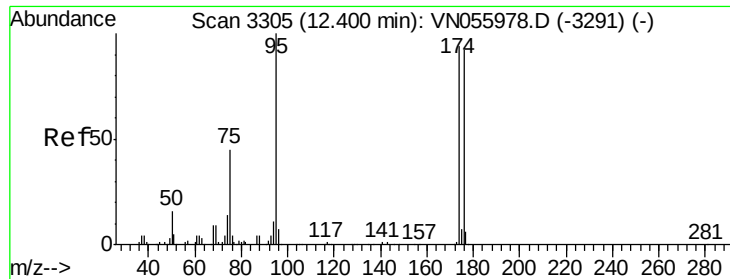
100 64.8 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

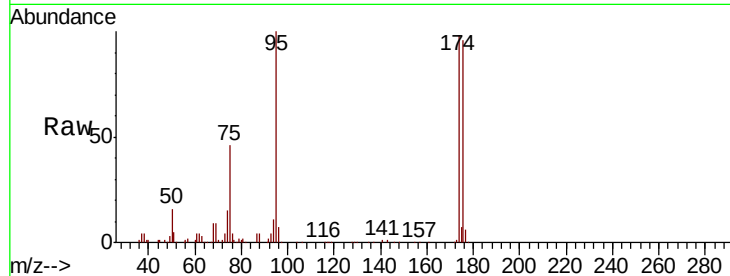




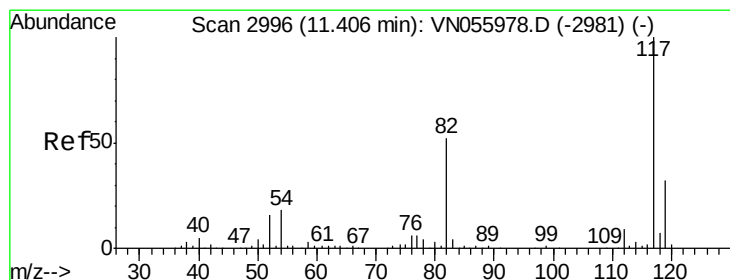
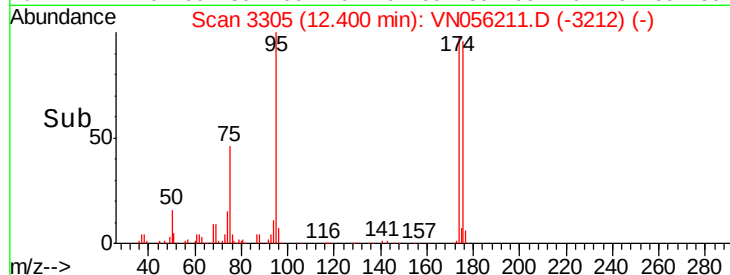
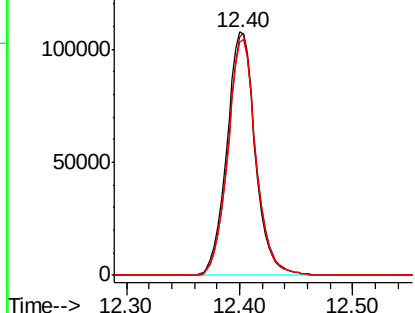
#62
4-Bromofluorobenzene
Concen: 50.575 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN056211.D
Acq: 11 Jun 2019 10:11

Instrument :
MSVOA_N
ClientSampleId :
SP19-GM25-TB1

Tot Ion: 95 Resp: 187058
Ion Ratio Lower Upper
95 100
174 97.6 0.0 191.0
176 95.6 0.0 185.2

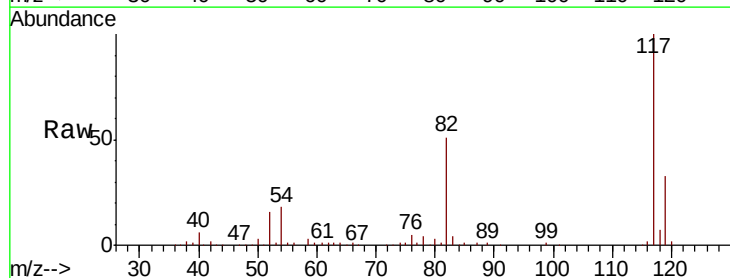


Abundance Ion 94.90 (94.60 to 95.60): VN0
Ion 173.80 (173.50 to 174.50): VN0
Ion 175.80 (175.50 to 176.50): VN0

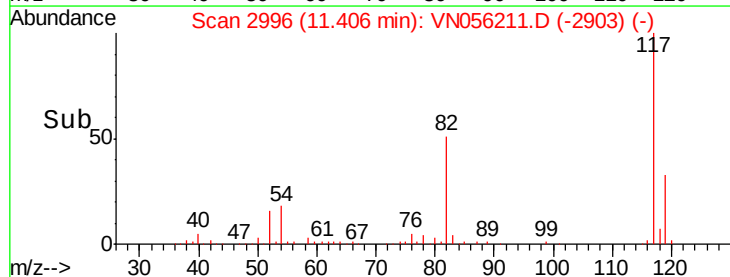
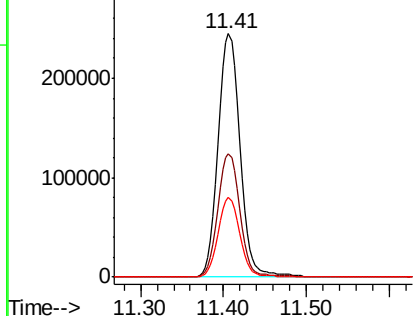


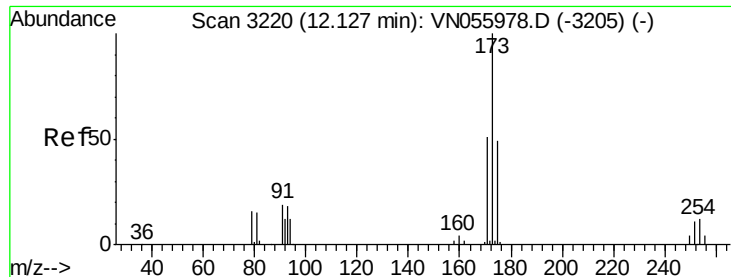
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN056211.D
Acq: 11 Jun 2019 10:11

Tgt Ion: 117 Resp: 449700
Ion Ratio Lower Upper
117 100
82 50.9 41.8 62.8
119 32.6 25.4 38.0



Abundance Ion 116.90 (116.60 to 117.60): VN0
Ion 82.00 (81.70 to 82.70): VN0
Ion 118.90 (118.60 to 119.60): VN0





#71

Bromoform

Concen: 3.258 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN056211.D

Acq: 11 Jun 2019 10:11

Instrument :

MSVOA_N

ClientSampleId :

SP19-GM25-TB1

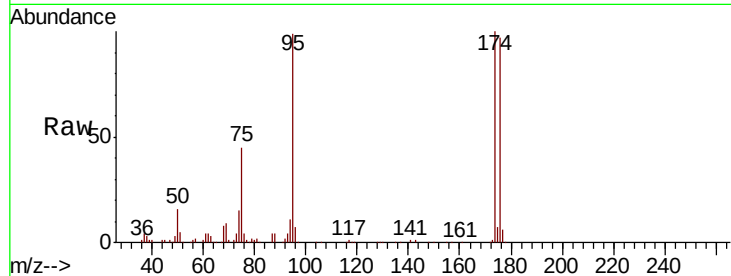
Tot Ion:173 Resp: 1416

Ion Ratio Lower Upper

173 100

175 825.5 24.3 72.8#

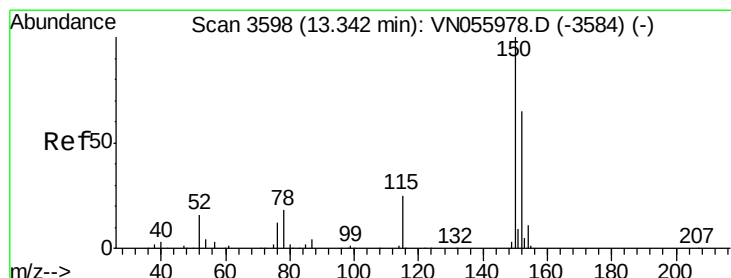
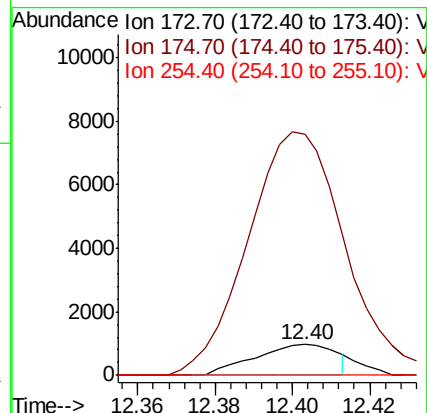
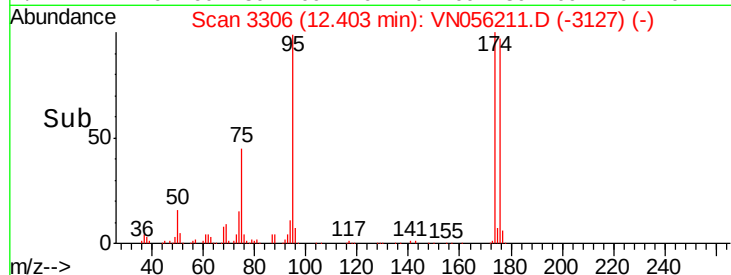
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN056211.D

Acq: 11 Jun 2019 10:11

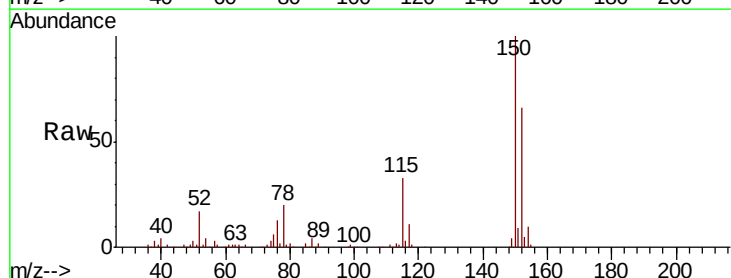
Tgt Ion:152 Resp: 142920

Ion Ratio Lower Upper

152 100

115 51.2 27.0 81.0

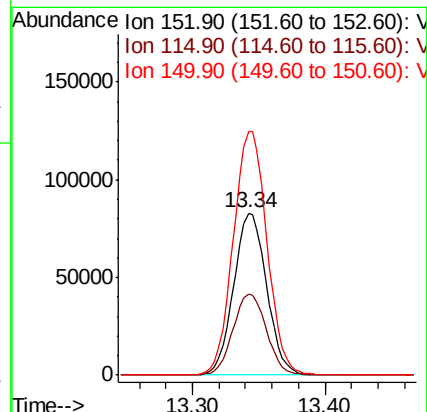
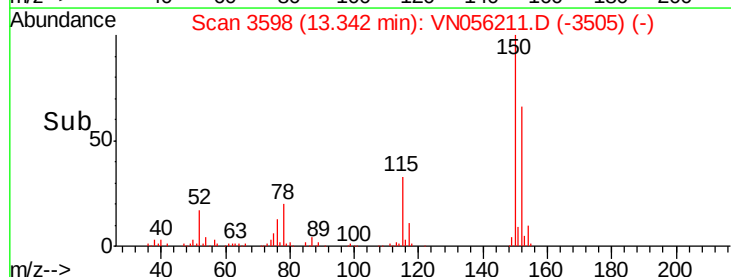
150 154.1 0.0 343.2

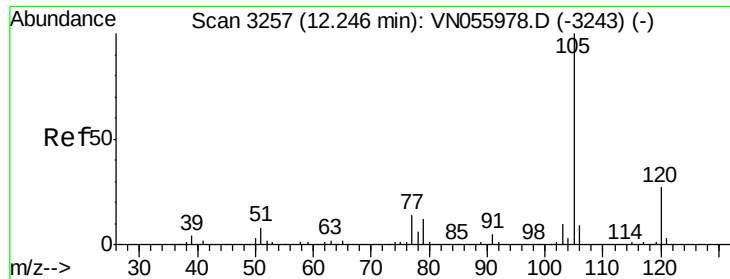


Abundance Ion 151.90 (151.60 to 152.60): V

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: VN056211.D

Acq: 11 Jun 2019 10:11

Instrument :

MSVOA_N

ClientSampled :

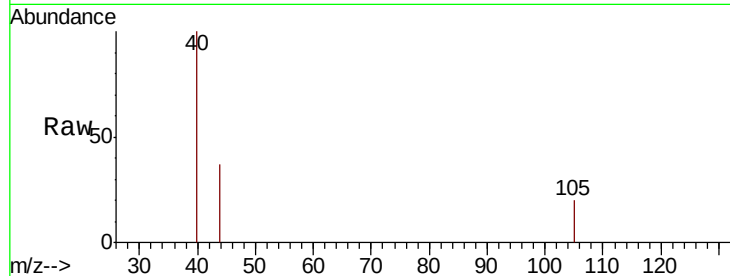
SP19-GM25-TB1

Tot Ion:105 Resp: 188

Ion Ratio Lower Upper

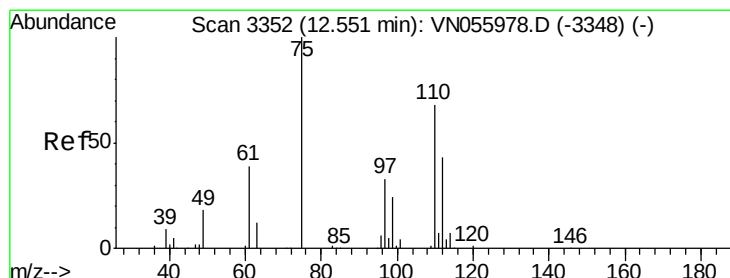
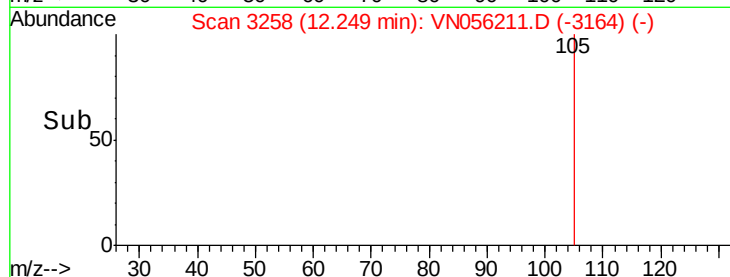
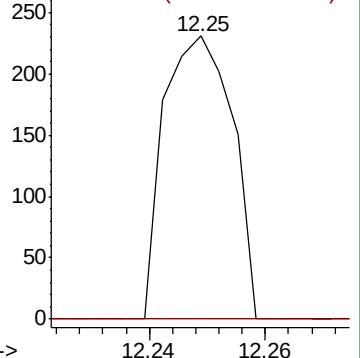
105 100

120 0.0 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: 32.452 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056211.D

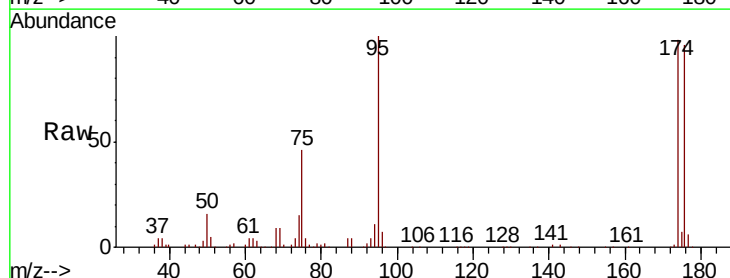
Acq: 11 Jun 2019 10:11

Tgt Ion: 75 Resp: 85343

Ion Ratio Lower Upper

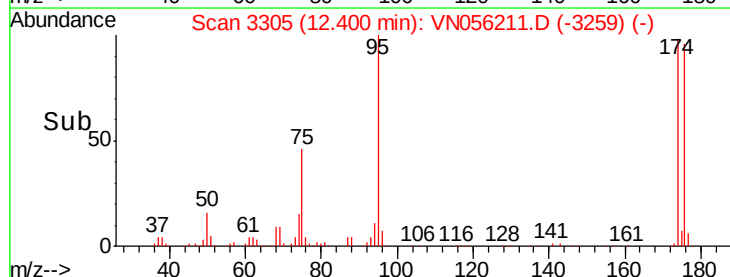
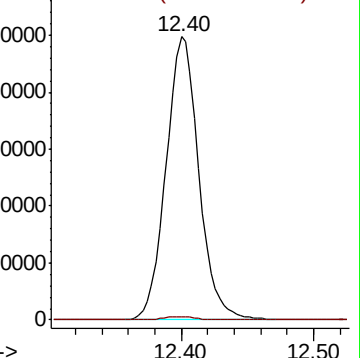
75 100

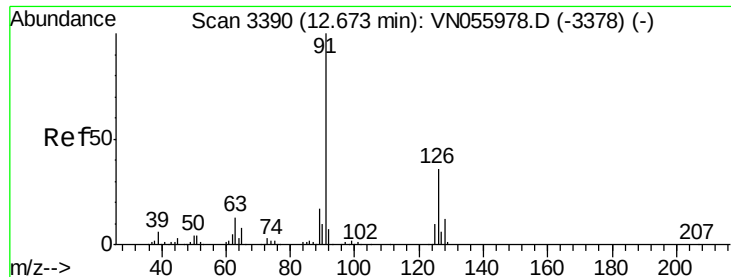
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN056211.D

Acq: 11 Jun 2019 10:11

Instrument :

MSVOA_N

ClientSampleId :

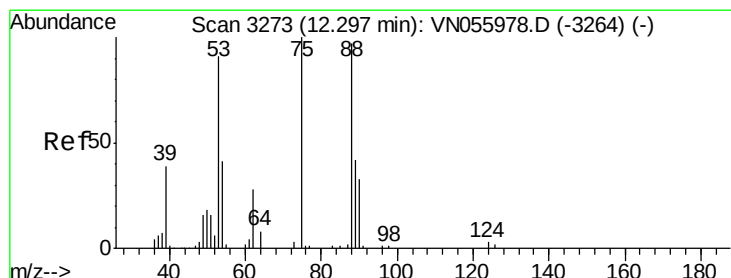
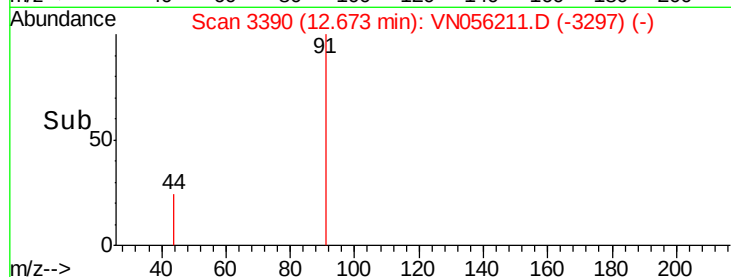
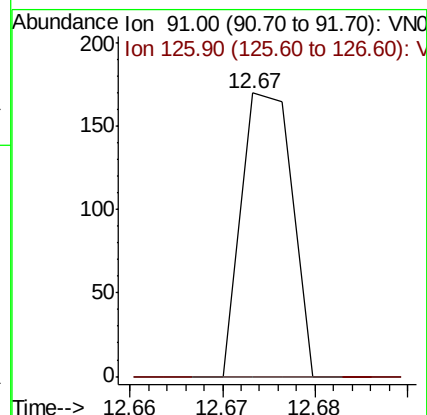
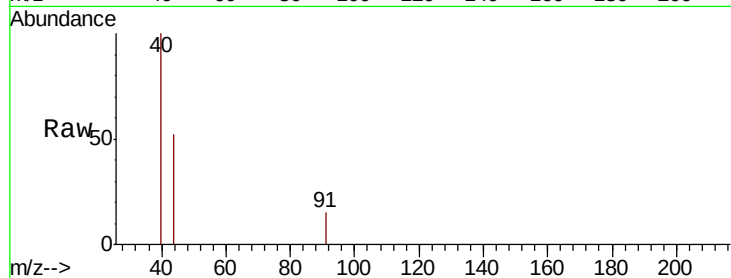
SP19-GM25-TB1

Tot Ion: 91 Resp: 65

Ion Ratio Lower Upper

91 100

126 0.0 18.1 54.4#



#81

trans-1,4-Dichloro-2-butene

Concen: 108.073 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056211.D

Acq: 11 Jun 2019 10:11

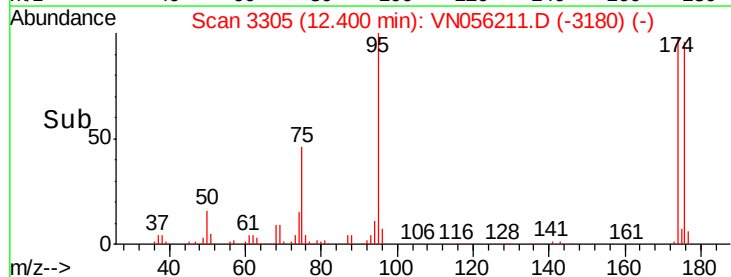
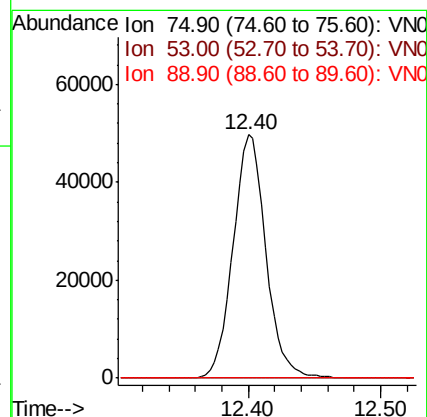
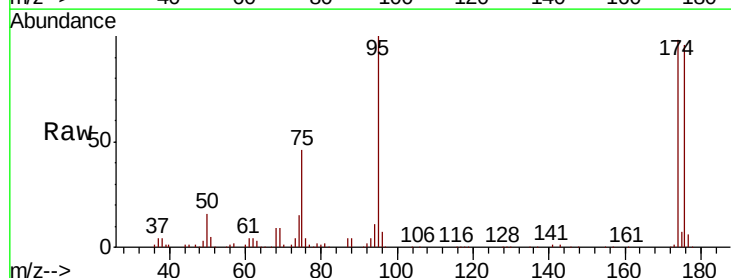
Tgt Ion: 75 Resp: 85343

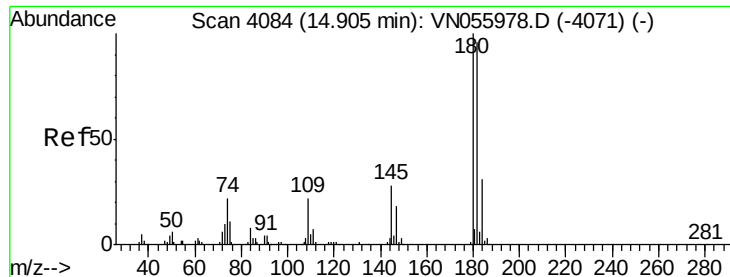
Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

89 0.0 36.9 55.3#

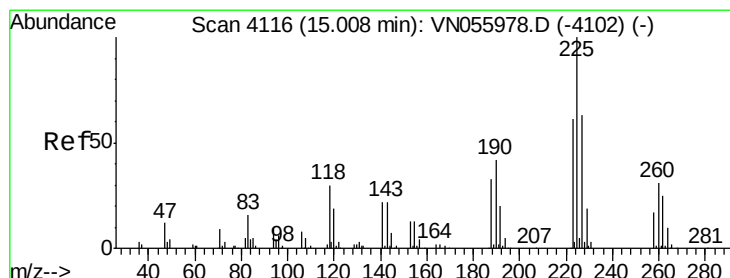
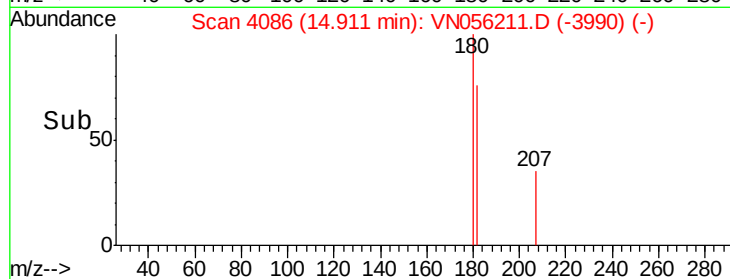
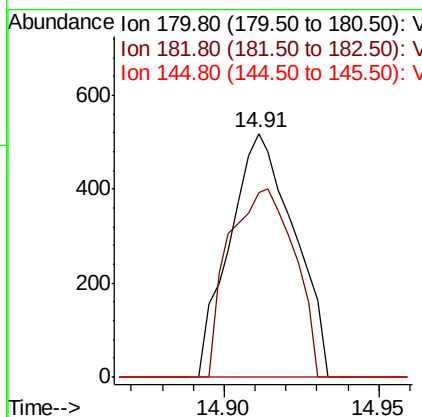
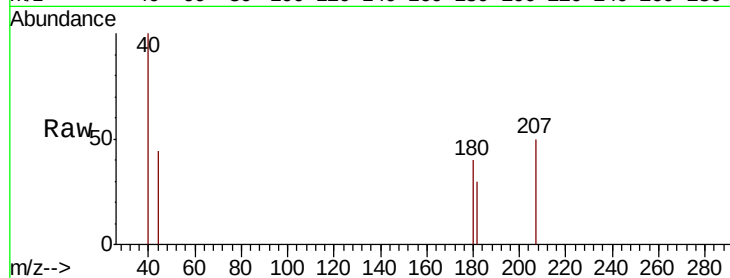




#93
 1,2,4-Trichlorobenzene
 Concen: 4.530 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.01 min
 Lab File: VN056211.D
 Acq: 11 Jun 2019 10:11

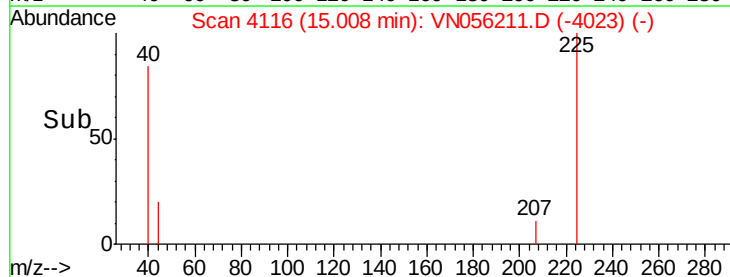
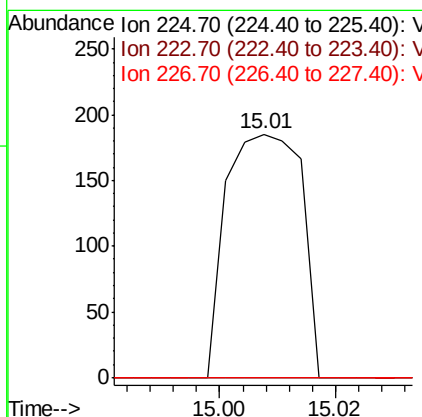
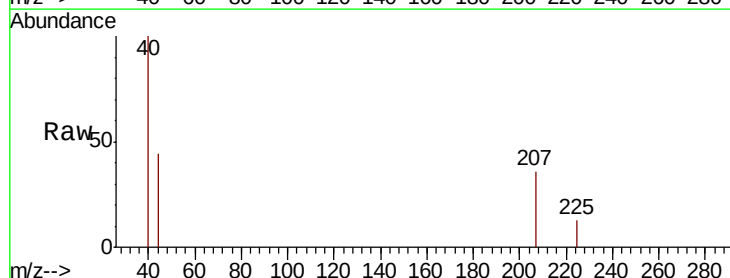
Instrument :
 MSVOA_N
 ClientSampleId :
 SP19-GM25-TB1

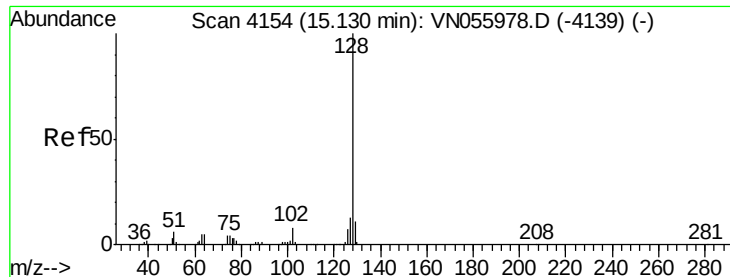
Tot Ion:180 Resp: 749
 Ion Ratio Lower Upper
 180 100
 182 78.8 48.3 144.9
 145 0.0 14.0 41.9#



#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN056211.D
 Acq: 11 Jun 2019 10:11

Tgt Ion:225 Resp: 166
 Ion Ratio Lower Upper
 225 100
 223 0.0 30.9 92.7#
 227 0.0 31.6 94.7#





#95

Naphthalene

Concen: 4.043 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN056211.D

Acq: 11 Jun 2019 10:11

Instrument :

MSVOA_N

ClientSampleId :

SP19-GM25-TB1

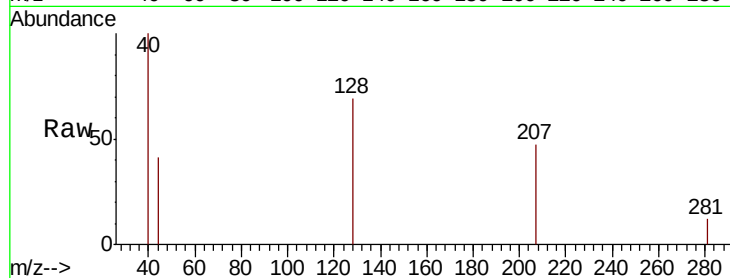
Tot Ion:128 Resp: 1420

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

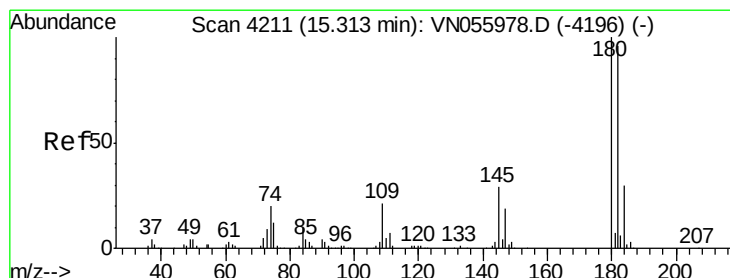
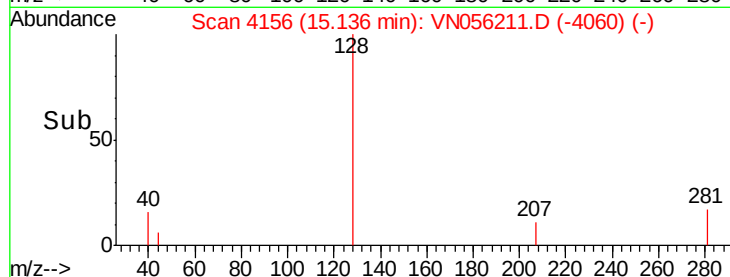
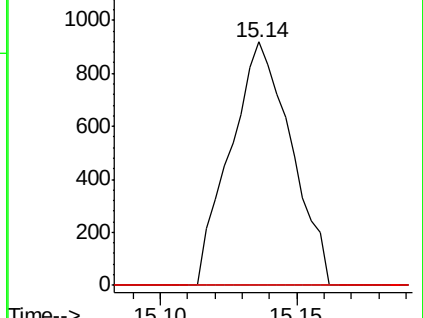
129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 3.212 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN056211.D

Acq: 11 Jun 2019 10:11

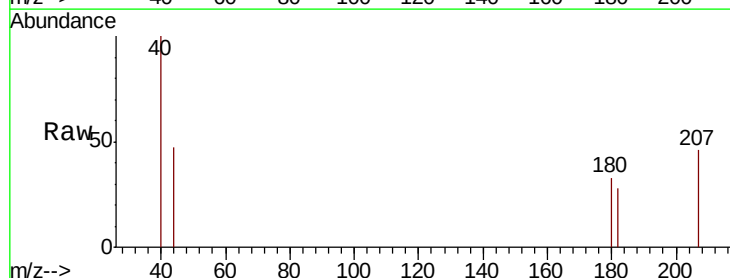
Tgt Ion:180 Resp: 518

Ion Ratio Lower Upper

180 100

182 119.7 47.9 143.7

145 0.0 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

