

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091918\
 Data File : VN051312.D
 Acq On : 19 Sep 2018 12:12
 Operator : MD\SY
 Sample : VN0919WBL02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 19 15:58:51 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091718W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 18 06:04:06 2018
 Response via : Initial Calibration

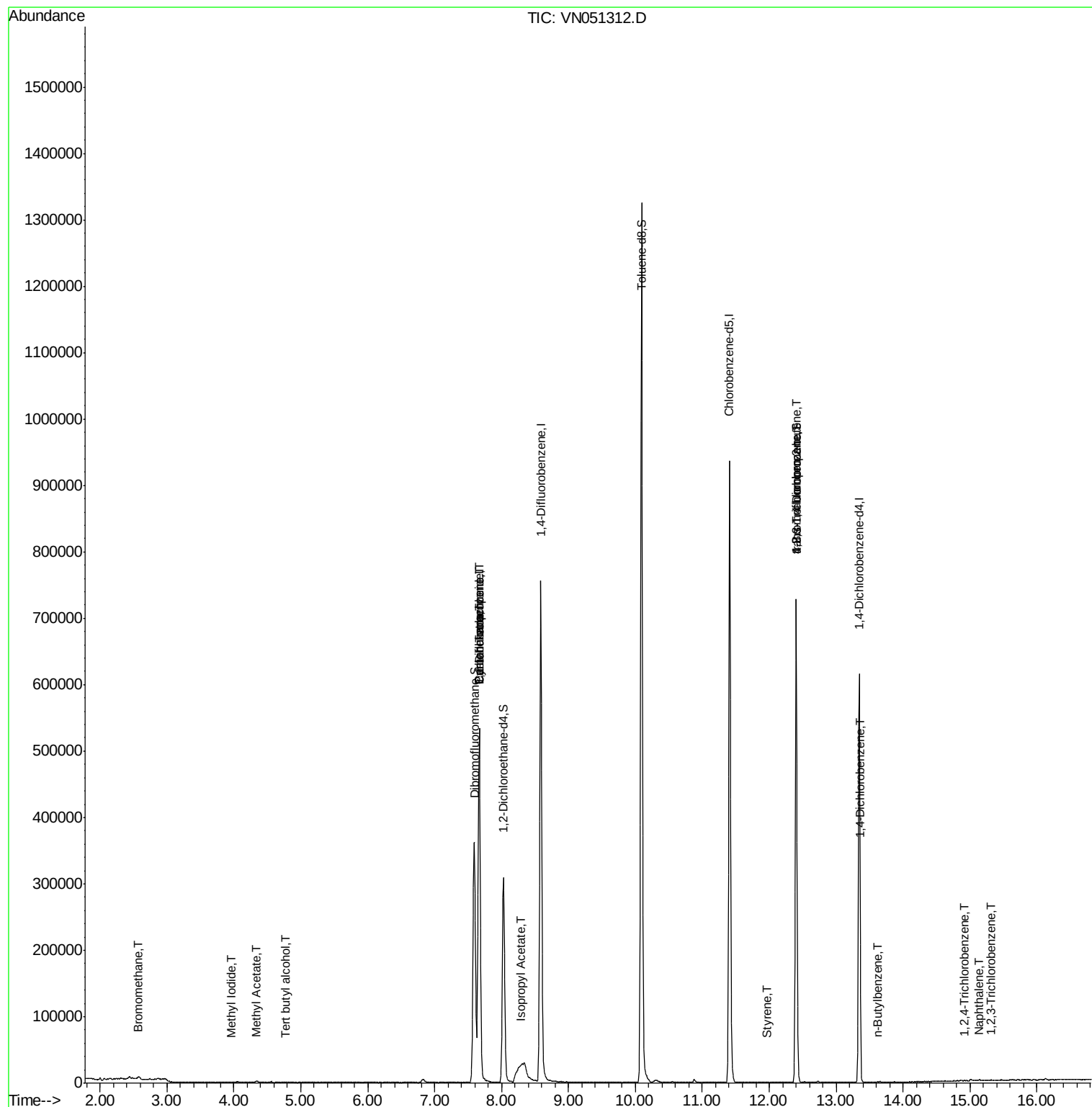
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	484118	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	727601	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	618226	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	187627	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	271240	51.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.10%	
35) Dibromofluoromethane	7.59	113	284985	50.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.80%	
50) Toluene-d8	10.09	98	990153	47.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.76%	
62) 4-Bromofluorobenzene	12.40	95	253487	38.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	76.26%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.06	50	1201	Below Cal		96
5) Bromomethane	2.57	94	1476	0.917 ug/l		84
10) Methyl Iodide	3.96	142	129	6.131 ug/l #		43
11) Tert butyl alcohol	4.77	59	106	0.366 ug/l #		73
16) Acetone	3.83	43	1135	Below Cal #		40
18) Methyl Acetate	4.34	43	3819	0.328 ug/l #		69
31) Cyclohexane	7.66	56	4378	0.449 ug/l #		1
36) 1,1-Dichloropropene	7.66	75	30222	3.837 ug/l #		49
38) Carbon Tetrachloride	7.66	117	41090	5.003 ug/l #		17
43) Isopropyl Acetate	8.27	43	31730	4.529 ug/l #		59
70) Styrene	11.97	104	97	1.250 ug/l #		26
76) 1,2,3-Trichloropropane	12.40	75	116050	44.965 ug/l #		100
77) Bromobenzene	12.53	156	66	Below Cal #		1
81) trans-1,4-Dichloro-2-buten	12.40	75	116050	137.373 ug/l #		15
88) 1,4-Dichlorobenzene	13.37	146	532	0.491 ug/l #		26
89) n-Butylbenzene	13.62	91	378	2.055 ug/l #		48
91) 1,2-Dichlorobenzene	13.65	146	545	Below Cal #		61
93) 1,2,4-Trichlorobenzene	14.91	180	295	5.117 ug/l #		55
94) Hexachlorobutadiene	15.01	225	810	Below Cal		73
95) Naphthalene	15.13	128	1441	6.141 ug/l #		80
96) 1,2,3-Trichlorobenzene	15.31	180	283	3.950 ug/l #		81

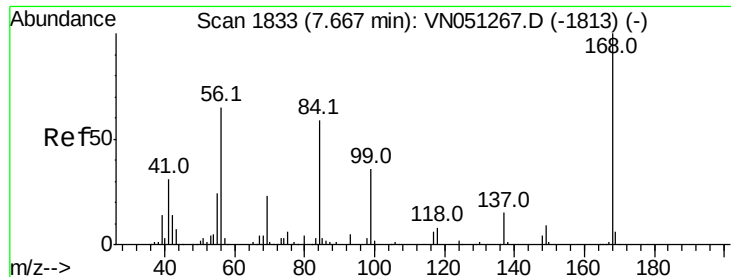
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN051312.D

Acq: 19 Sep 2018 12:12

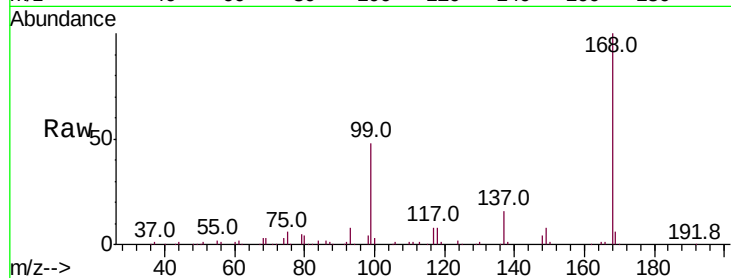
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 484118

Ion Ratio Lower Upper

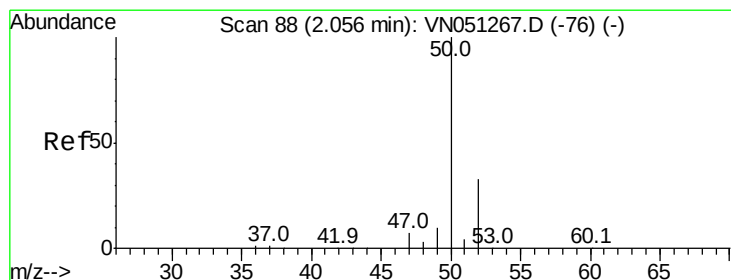
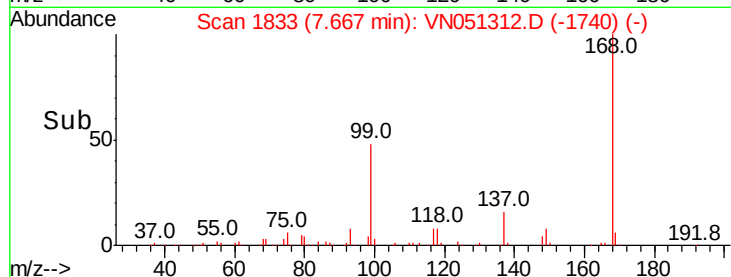
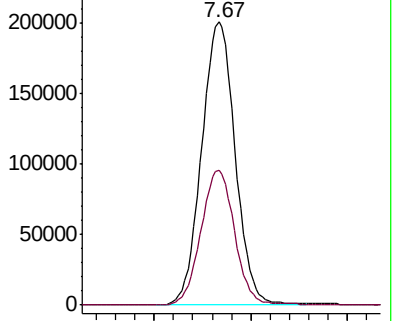
168 100

99 47.6 38.2 57.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 88

Delta R.T. 0.00 min

Lab File: VN051312.D

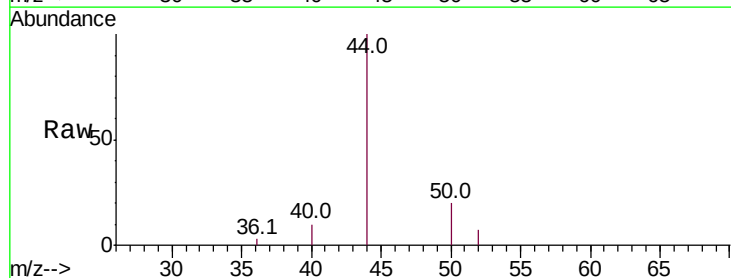
Acq: 19 Sep 2018 12:12

Tgt Ion: 50 Resp: 1201

Ion Ratio Lower Upper

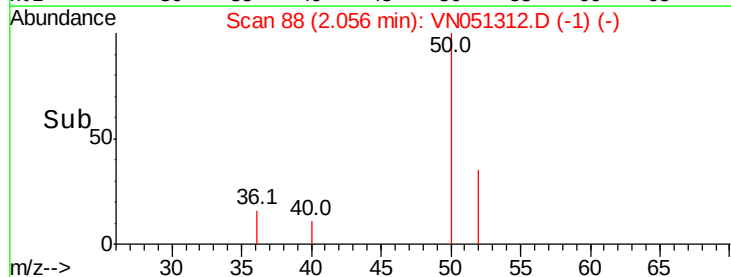
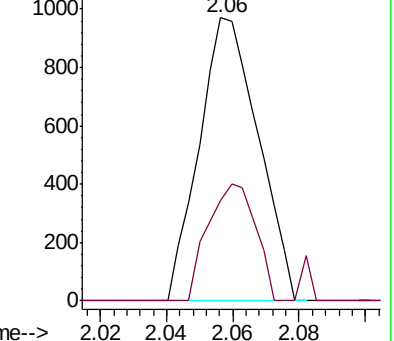
50 100

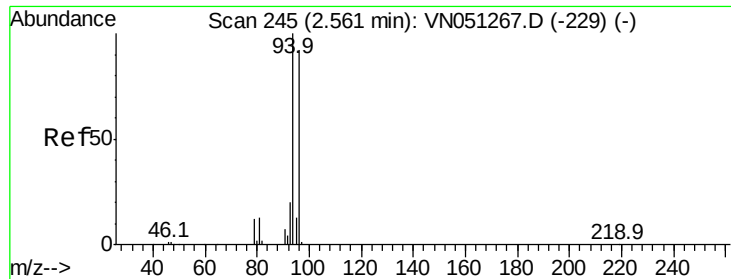
52 35.4 26.6 40.0



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO





#5

Bromomethane

Concen: 0.917 ug/l

RT: 2.57 min Scan# 248

Delta R.T. 0.01 min

Lab File: VN051312.D

Acq: 19 Sep 2018 12:12

Instrument :

MSVOA_N

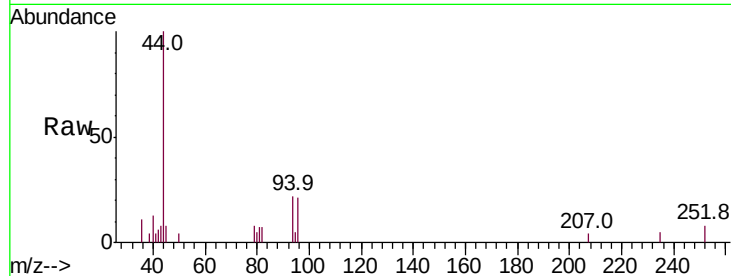
ClientSampleId :

Tot Ion: 94 Resp: 1476

Ion Ratio Lower Upper

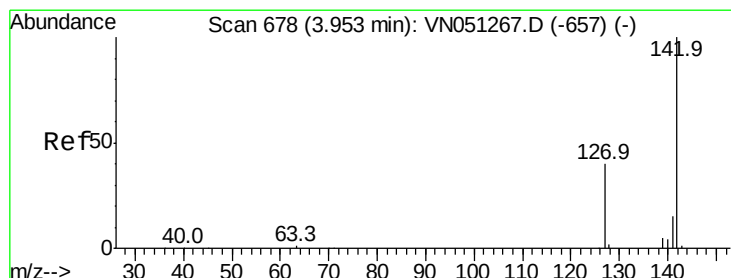
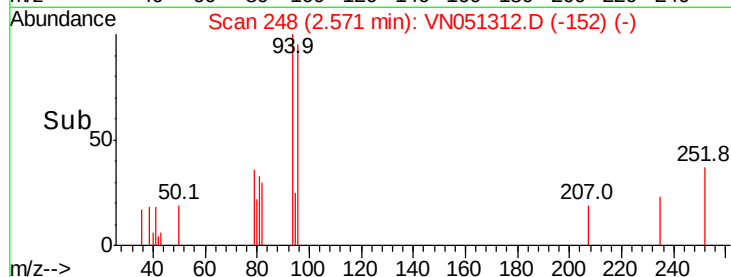
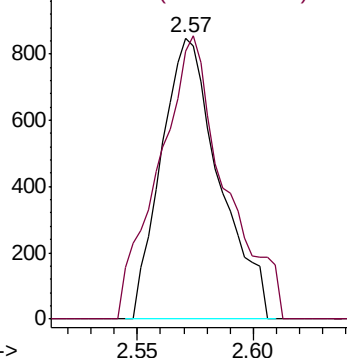
94 100

96 77.1 73.8 110.8



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#10

Methyl Iodide

Concen: 6.131 ug/l

RT: 3.96 min Scan# 681

Delta R.T. 0.01 min

Lab File: VN051312.D

Acq: 19 Sep 2018 12:12

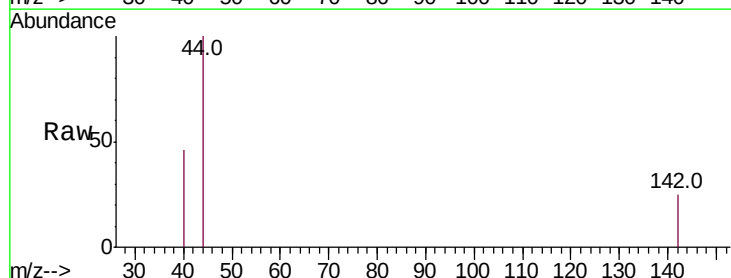
Tgt Ion: 142 Resp: 129

Ion Ratio Lower Upper

142 100

127 0.0 31.7 47.5#

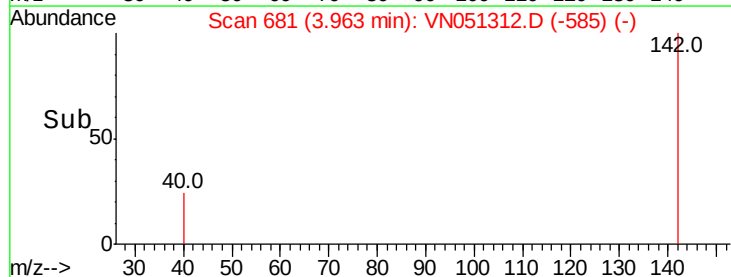
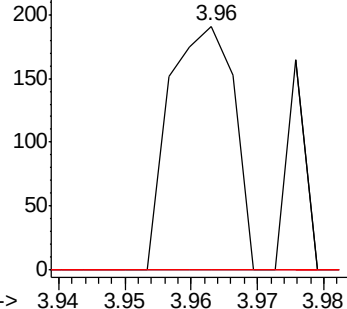
141 0.0 11.6 17.4#

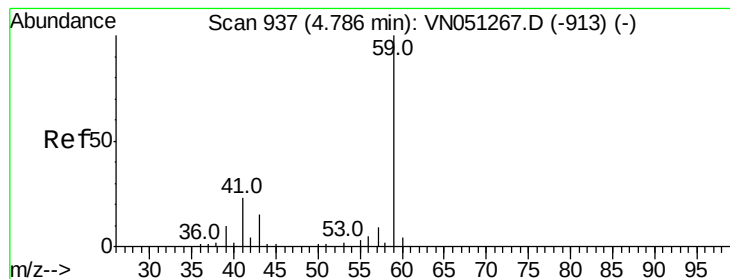


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



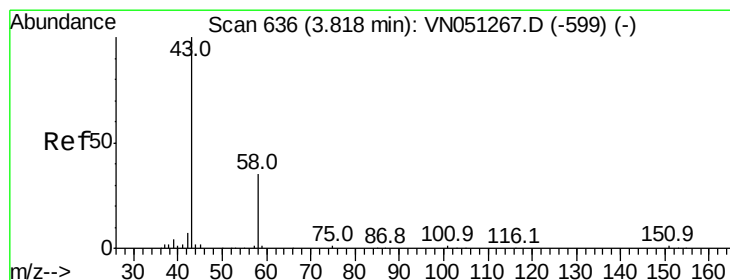
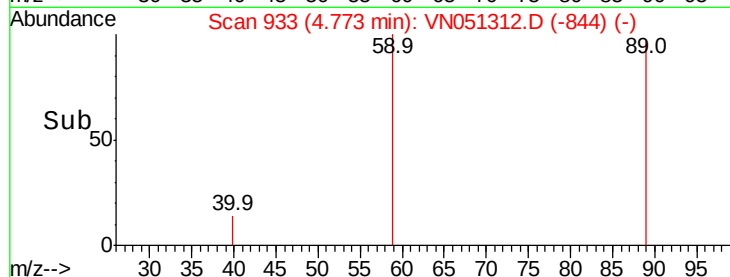
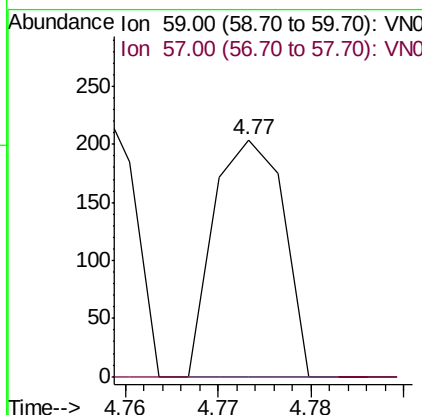
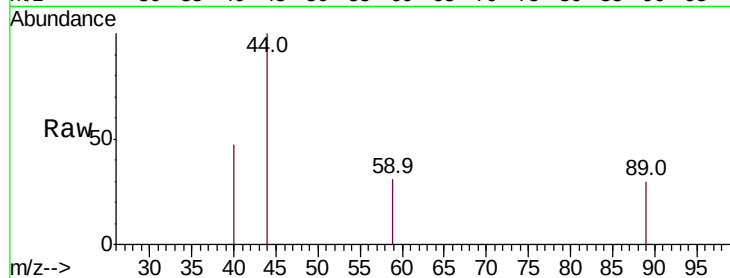


#11

Tert butyl alcohol
 Concen: 0.366 ug/l
 RT: 4.77 min Scan# 933
 Delta R.T. -0.01 min
 Lab File: VN051312.D
 Acq: 19 Sep 2018 12:12

Instrument :
 MSVOA_N
 ClientSampled :

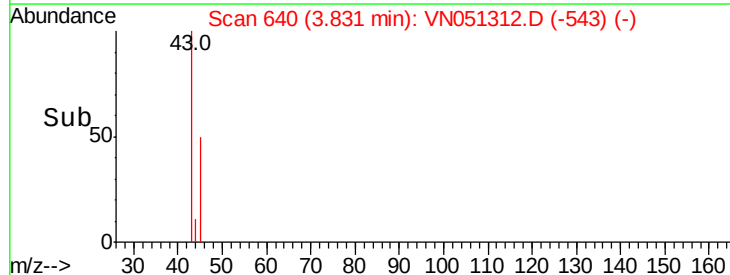
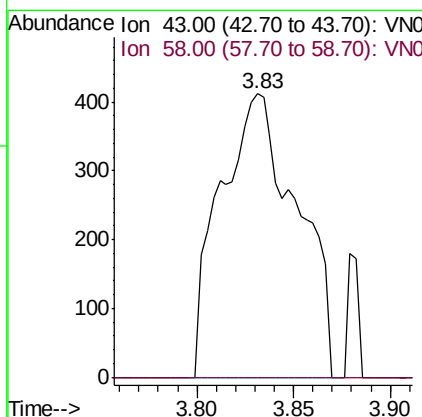
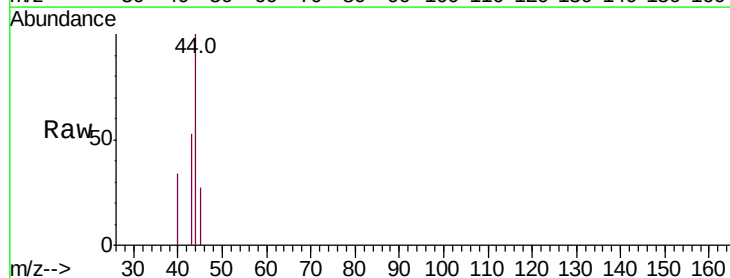
Tot Ion: 59 Resp: 106
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.9 11.9#

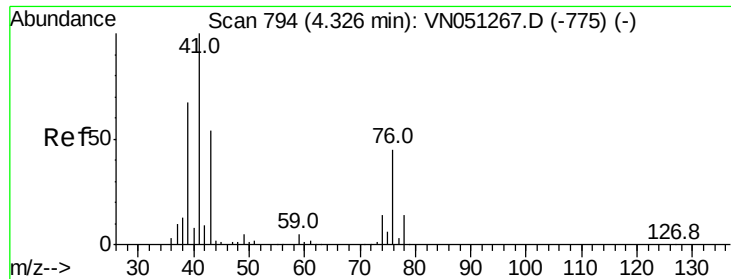


#16

Acetone
 Concen: Below Cal
 RT: 3.83 min Scan# 640
 Delta R.T. 0.01 min
 Lab File: VN051312.D
 Acq: 19 Sep 2018 12:12

Tgt Ion: 43 Resp: 1135
 Ion Ratio Lower Upper
 43 100
 58 0.0 28.2 42.2#

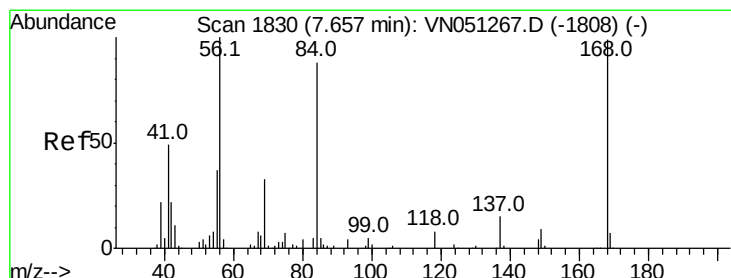
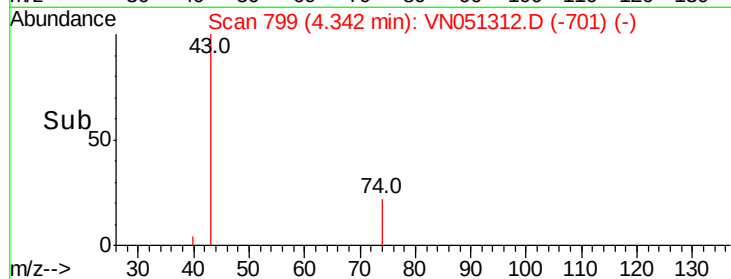
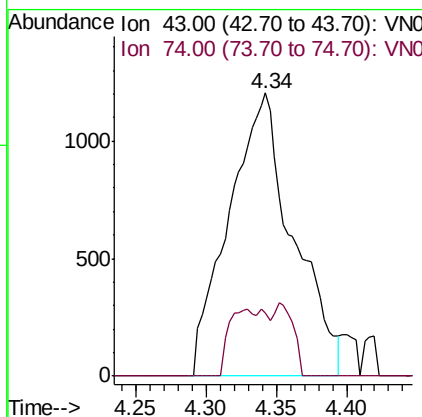
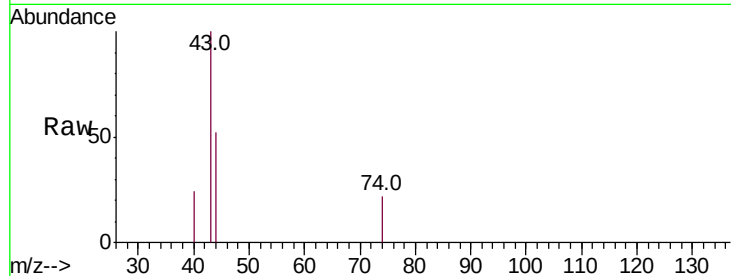




#18
Methyl Acetate
Concen: 0.328 ug/l
RT: 4.34 min Scan# 799
Delta R.T. 0.02 min
Lab File: VN051312.D
Acq: 19 Sep 2018 12:12

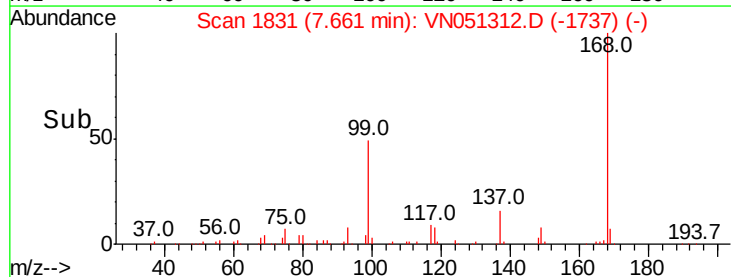
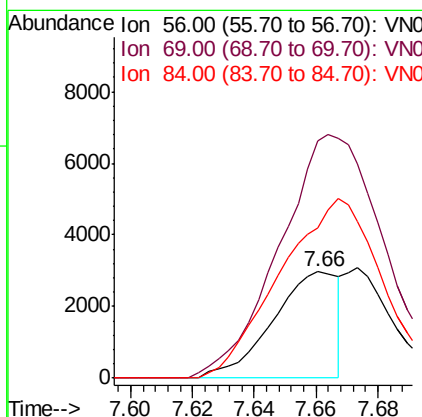
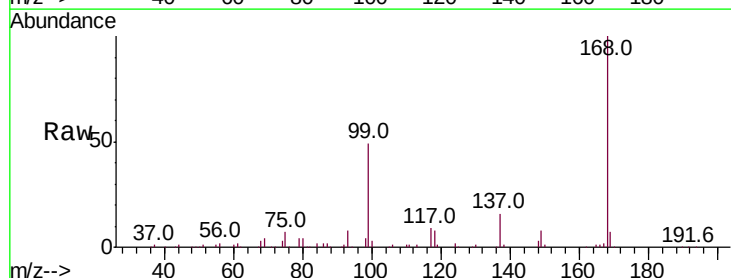
Instrument :
MSVOA_N
ClientSampled :

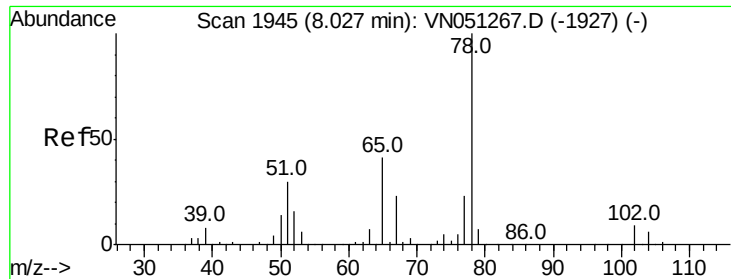
Tot Ion: 43 Resp: 3819
Ion Ratio Lower Upper
43 100
74 10.2 20.8 31.2#



#31
Cyclohexane
Concen: 0.449 ug/l
RT: 7.66 min Scan# 1831
Delta R.T. 0.00 min
Lab File: VN051312.D
Acq: 19 Sep 2018 12:12

Tgt Ion: 56 Resp: 4378
Ion Ratio Lower Upper
56 100
69 223.1 26.2 39.2#
84 141.6 70.6 106.0#

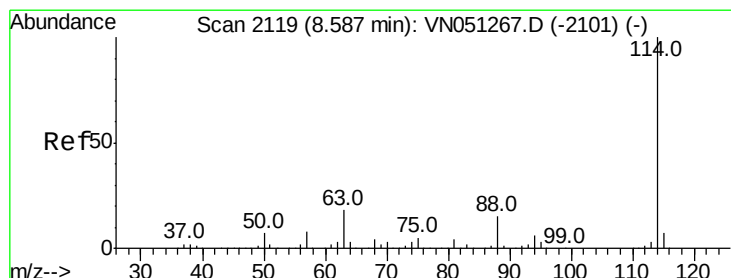
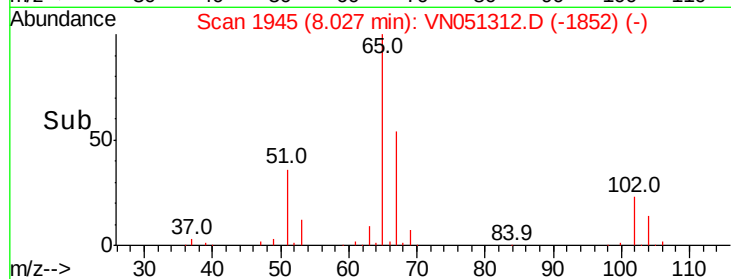
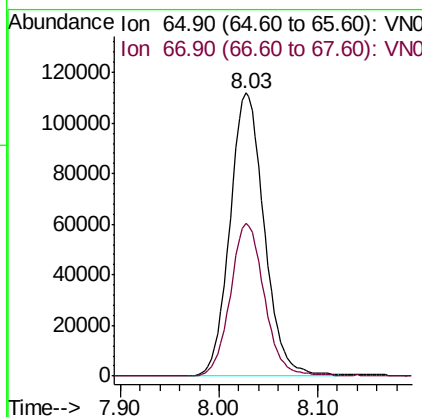
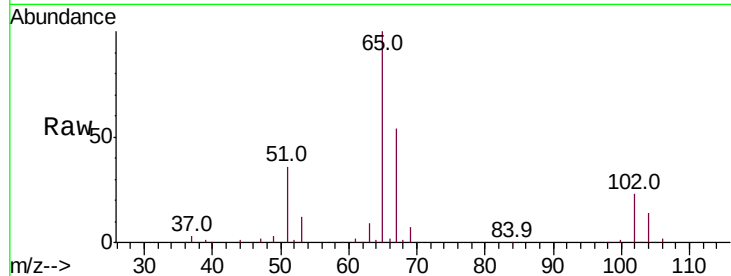




#33
 1,2-Dichloroethane-d4
 Concen: 51.553 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN051312.D
 Acq: 19 Sep 2018 12:12

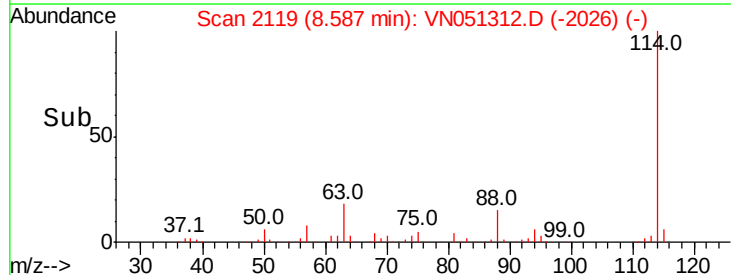
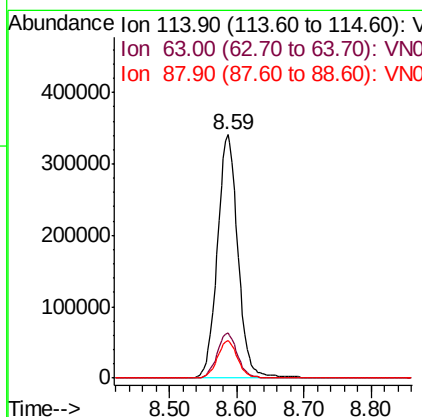
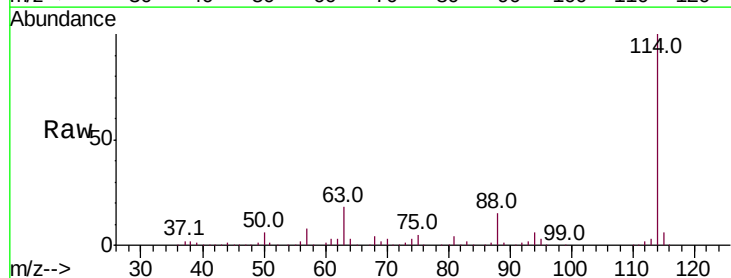
Instrument :
 MSVOA_N
 ClientSampleId :

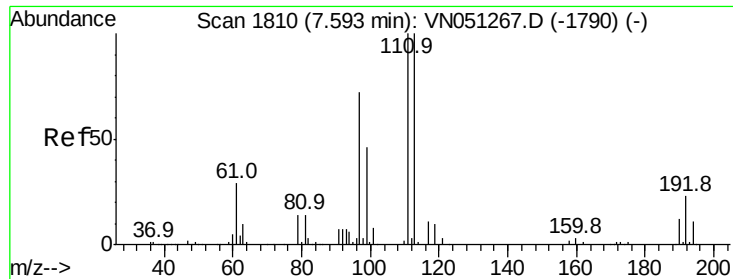
Tot Ion: 65 Resp: 271240
 Ion Ratio Lower Upper
 65 100
 67 53.4 0.0 111.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051312.D
 Acq: 19 Sep 2018 12:12

Tgt Ion:114 Resp: 727601
 Ion Ratio Lower Upper
 114 100
 63 18.3 0.0 36.8
 88 15.4 0.0 30.8

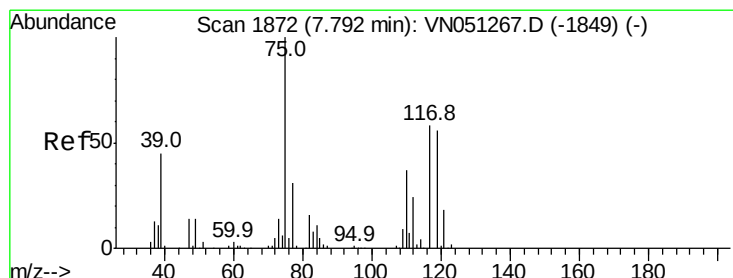
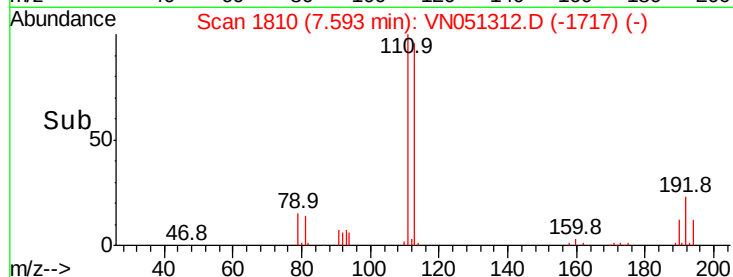
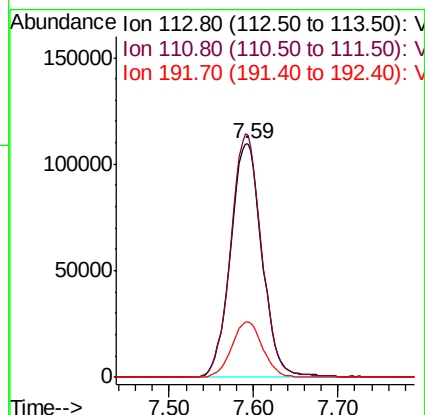
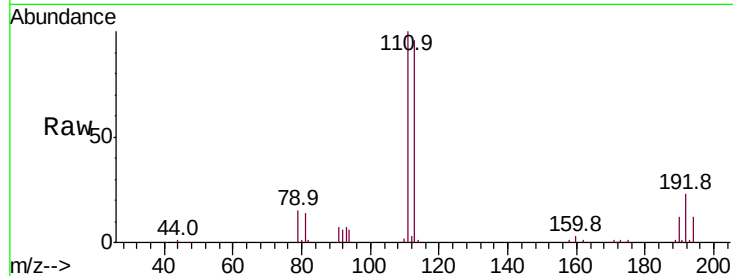




#35
 Dibromofluoromethane
 Concen: 50.403 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051312.D
 Acq: 19 Sep 2018 12:12

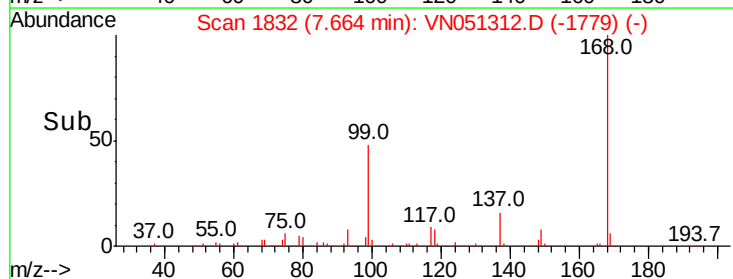
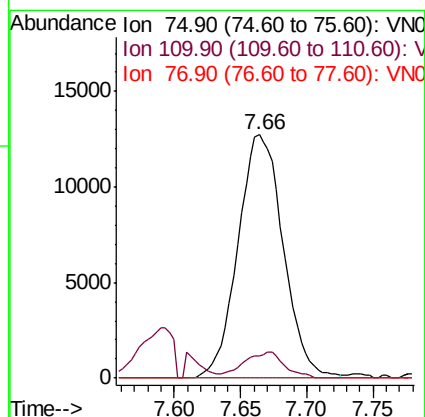
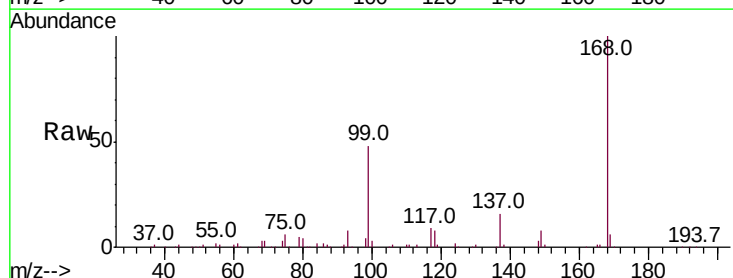
Instrument :
 MSVOA_N
 ClientSampleId :

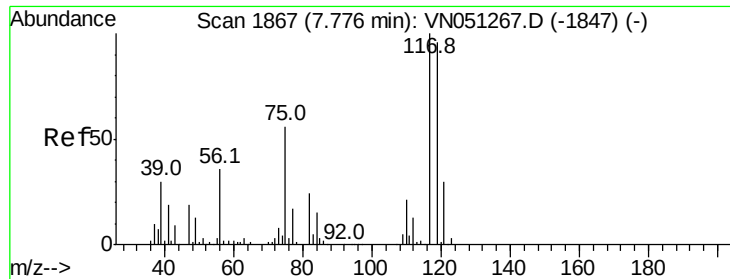
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.3	82.2	123.4
192	23.4	19.0	28.6



#36
 1,1-Dichloropropene
 Concen: 3.837 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN051312.D
 Acq: 19 Sep 2018 12:12

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.5	18.6	56.0#
77	0.0	24.7	37.1#





#38

Carbon Tetrachloride

Concen: 5.003 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN051312.D

Acq: 19 Sep 2018 12:12

Instrument :

MSVOA_N

ClientSampled :

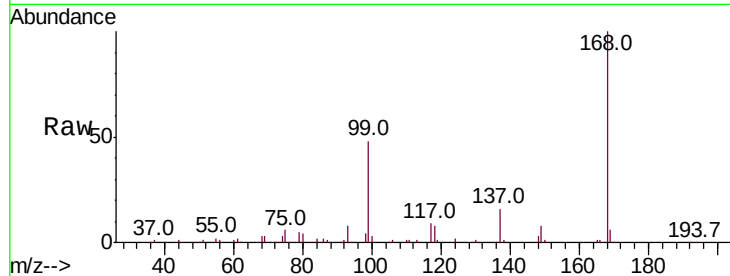
Tot Ion:117 Resp: 41090

Ion Ratio Lower Upper

117 100

119 6.0 76.8 115.2#

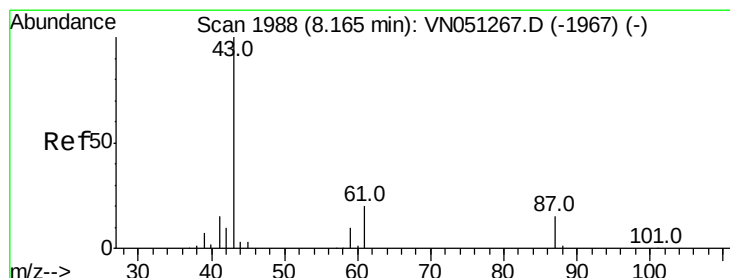
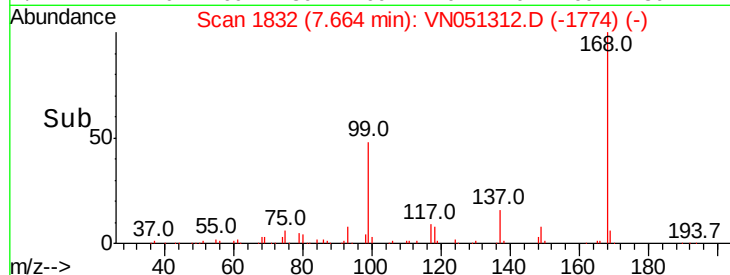
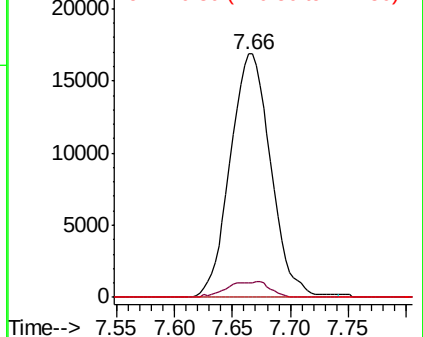
121 0.0 24.2 36.2#



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



#43

Isopropyl Acetate

Concen: 4.529 ug/l

RT: 8.27 min Scan# 2021

Delta R.T. 0.11 min

Lab File: VN051312.D

Acq: 19 Sep 2018 12:12

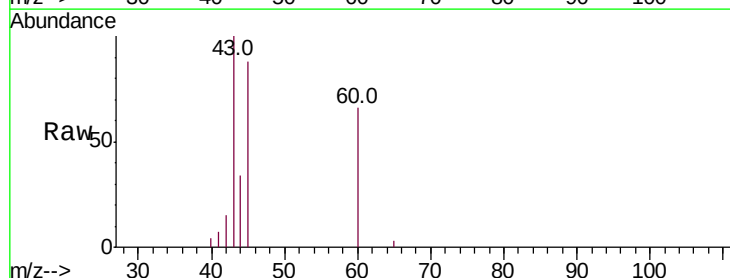
Tgt Ion: 43 Resp: 31730

Ion Ratio Lower Upper

43 100

61 0.5 17.4 26.2#

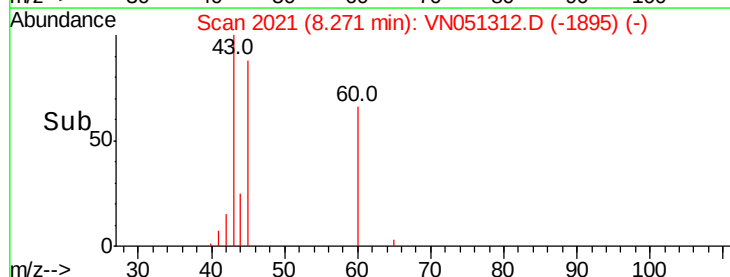
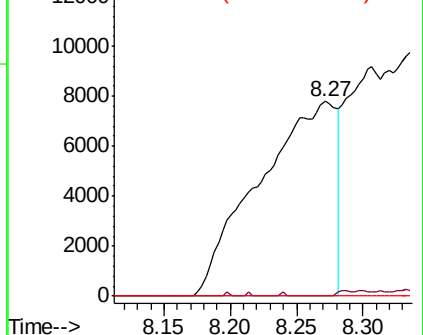
87 0.0 12.2 18.4#

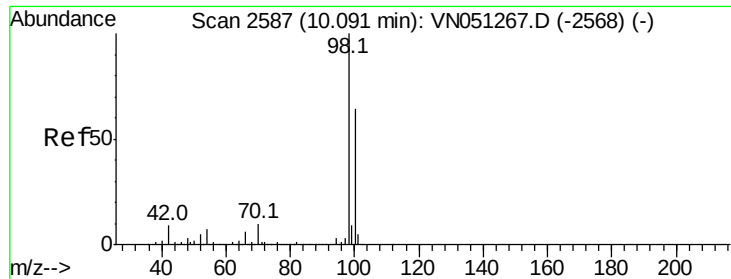


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#50

Toluene-d8

Concen: 47.377 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051312.D

Acq: 19 Sep 2018 12:12

Instrument :

MSVOA_N

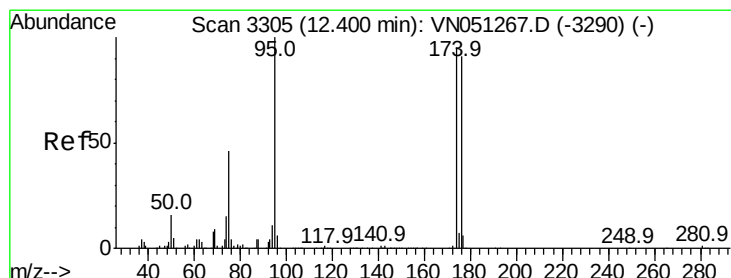
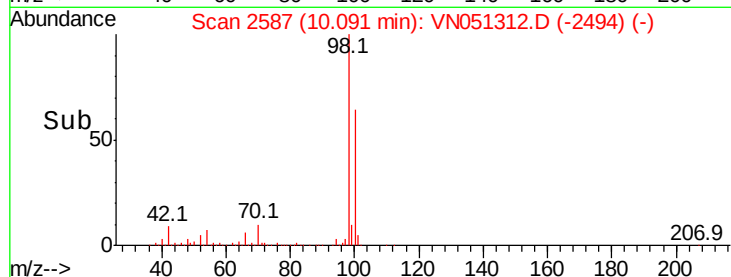
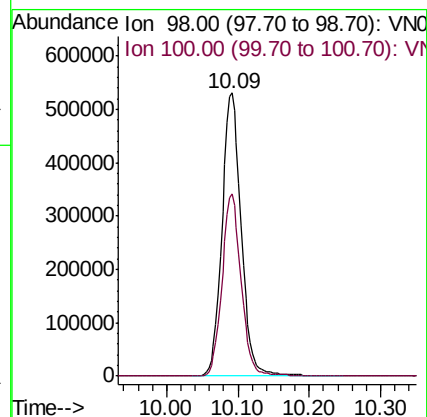
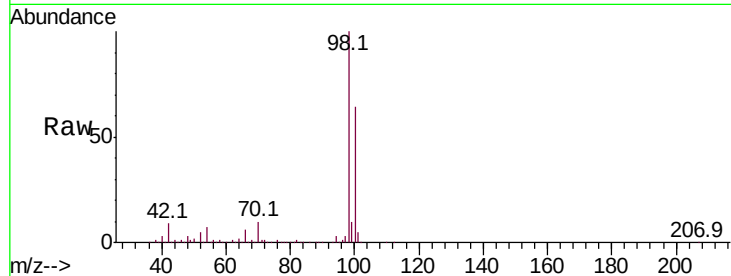
ClientSampleId :

Tot Ion: 98 Resp: 990153

Ion Ratio Lower Upper

98 100

100 63.7 51.6 77.4



#62

4-Bromofluorobenzene

Concen: 38.133 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051312.D

Acq: 19 Sep 2018 12:12

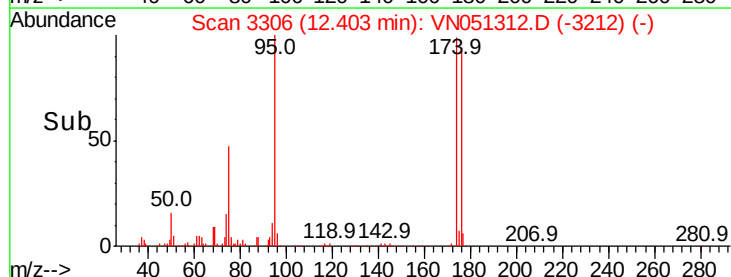
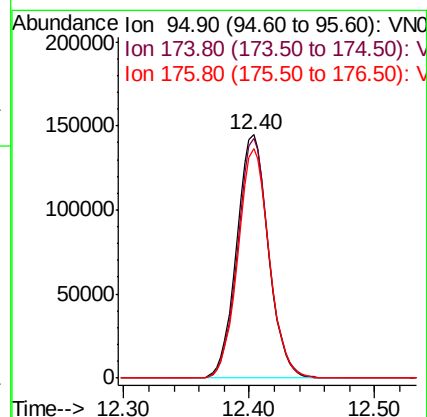
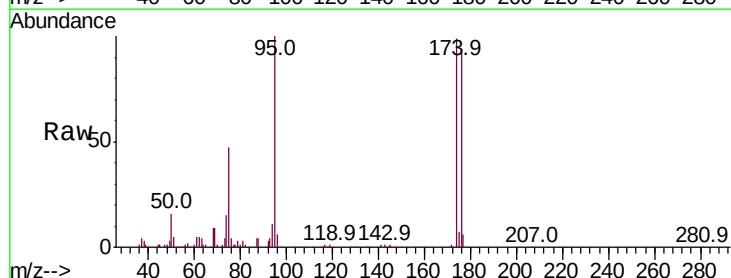
Tgt Ion: 95 Resp: 253487

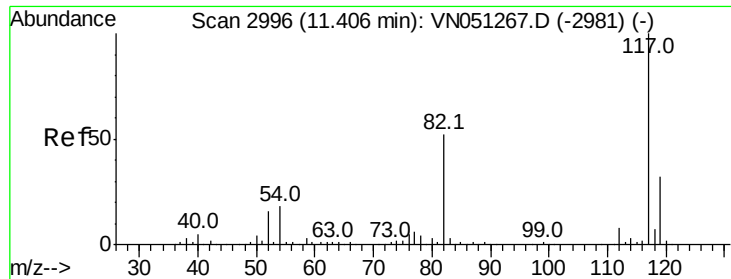
Ion Ratio Lower Upper

95 100

174 97.1 0.0 189.6

176 93.2 0.0 182.6

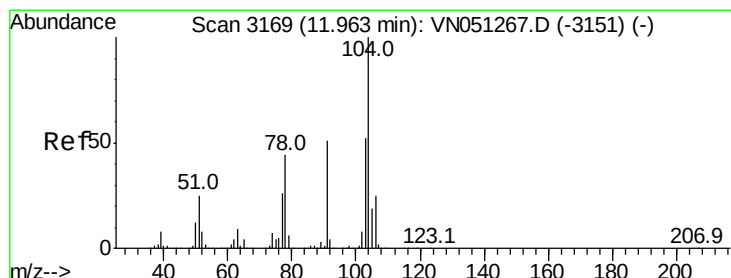
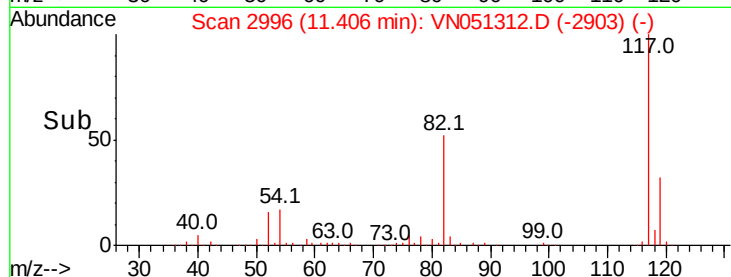
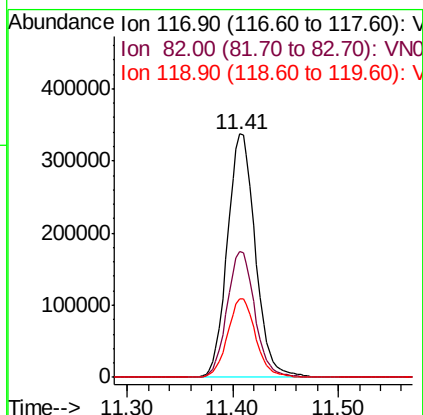
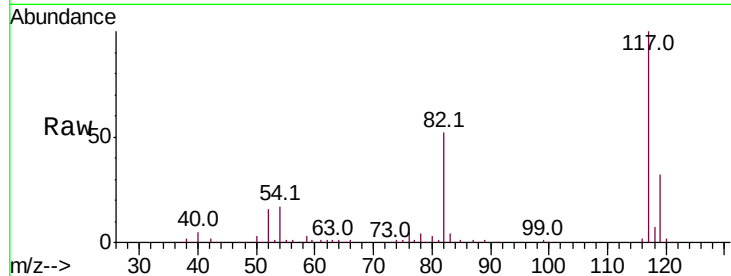




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN051312.D
Acq: 19 Sep 2018 12:12

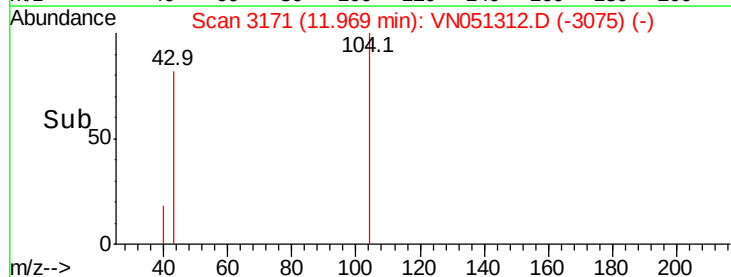
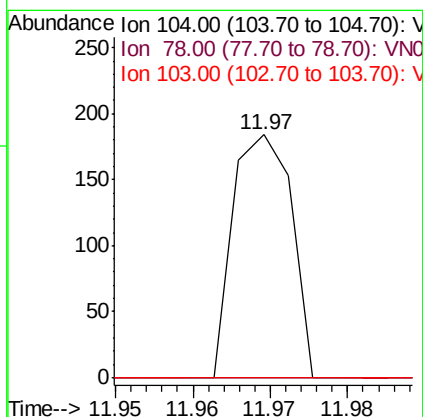
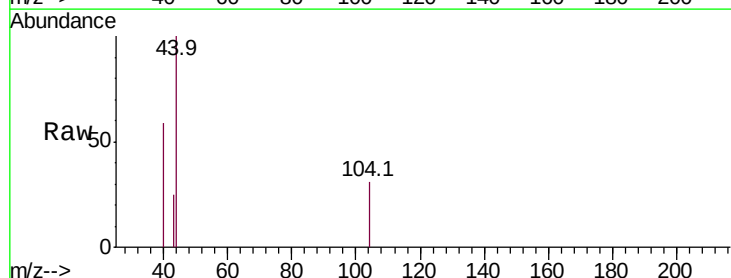
Instrument :
MSVOA_N
ClientSampled :

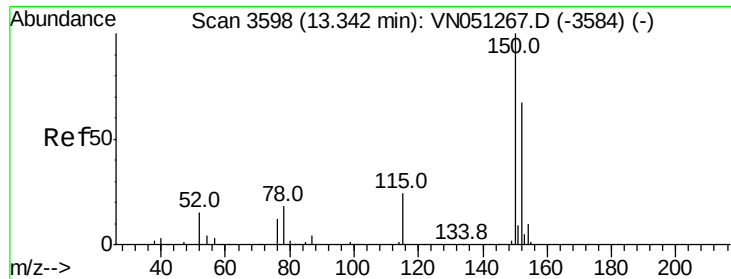
Tot Ion:117 Resp: 618226
Ion Ratio Lower Upper
117 100
82 51.9 41.8 62.8
119 32.4 25.6 38.4



#70
Styrene
Concen: 1.250 ug/l
RT: 11.97 min Scan# 3171
Delta R.T. 0.01 min
Lab File: VN051312.D
Acq: 19 Sep 2018 12:12

Tgt Ion:104 Resp: 97
Ion Ratio Lower Upper
104 100
78 0.0 38.1 57.1#
103 0.0 44.8 67.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051312.D

Acq: 19 Sep 2018 12:12

Instrument :

MSVOA_N

ClientSampleId :

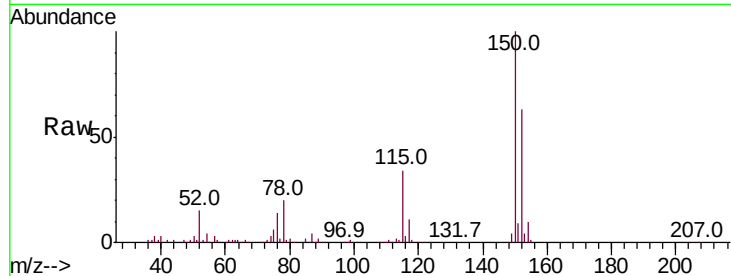
Tot Ion:152 Resp: 187627

Ion Ratio Lower Upper

152 100

115 54.1 27.1 81.2

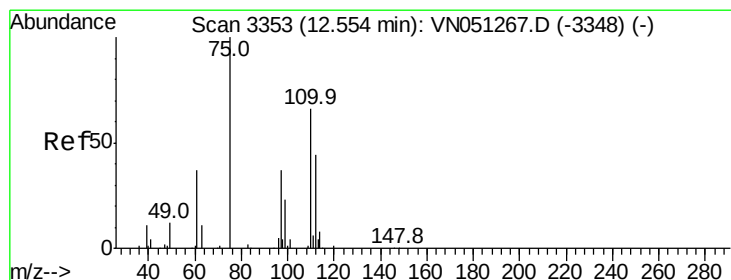
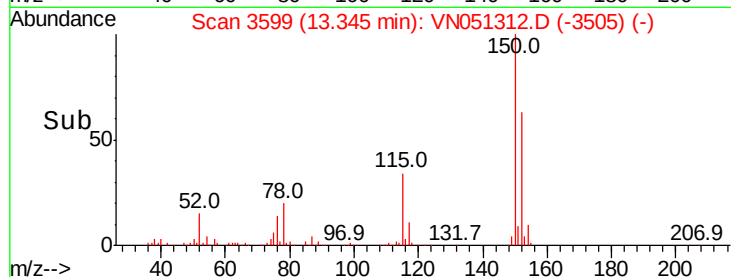
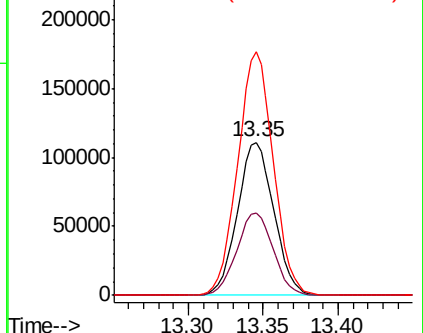
150 155.5 0.0 349.0



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



#76

1,2,3-Trichloropropane

Concen: 44.965 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051312.D

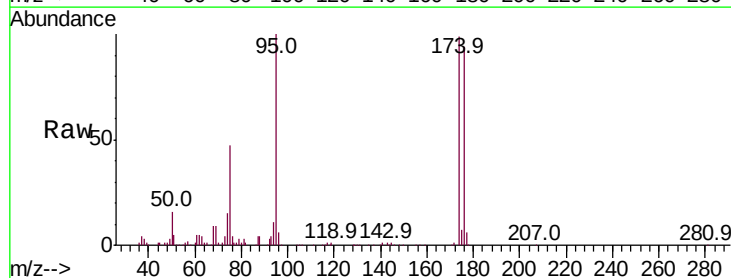
Acq: 19 Sep 2018 12:12

Tgt Ion: 75 Resp: 116050

Ion Ratio Lower Upper

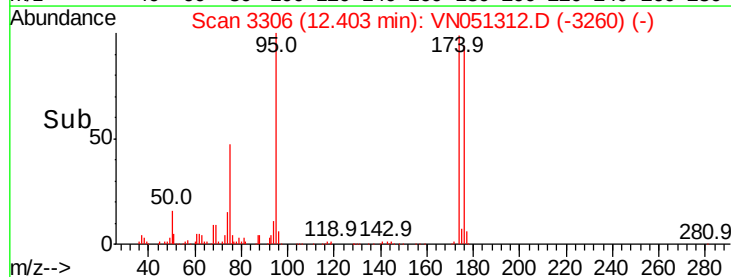
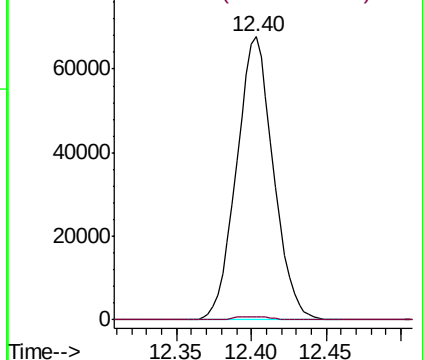
75 100

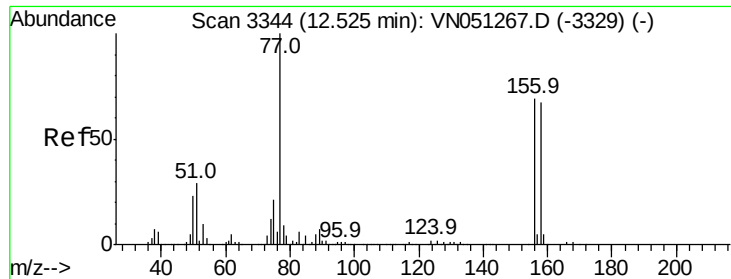
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#77

Bromobenzene

Concen: Below Cal

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN051312.D

Acq: 19 Sep 2018 12:12

Instrument :

MSVOA_N

ClientSampleId :

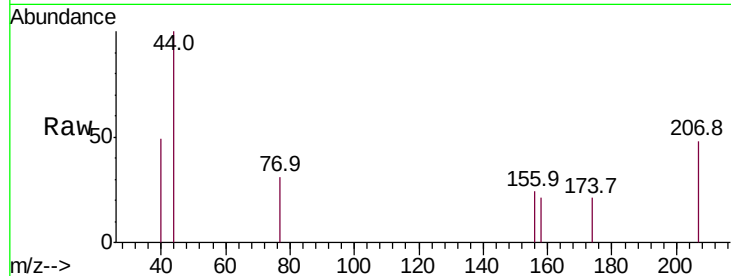
Tot Ion:156 Resp: 66

Ion Ratio Lower Upper

156 100

77 709.1 83.7 251.1#

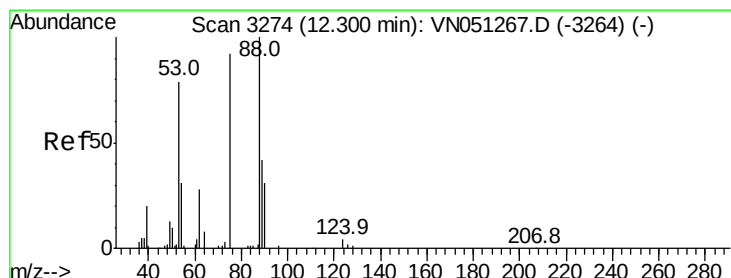
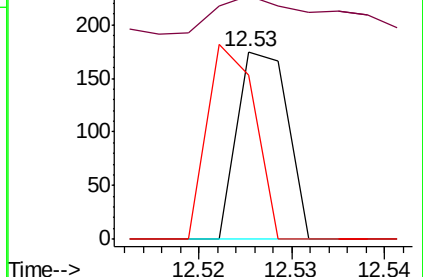
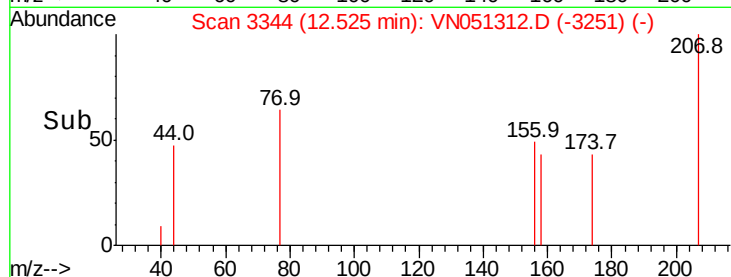
158 98.5 49.0 147.2



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VNO

Ion 157.80 (157.50 to 158.50): V



#81

trans-1,4-Dichloro-2-butene

Concen: 137.373 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051312.D

Acq: 19 Sep 2018 12:12

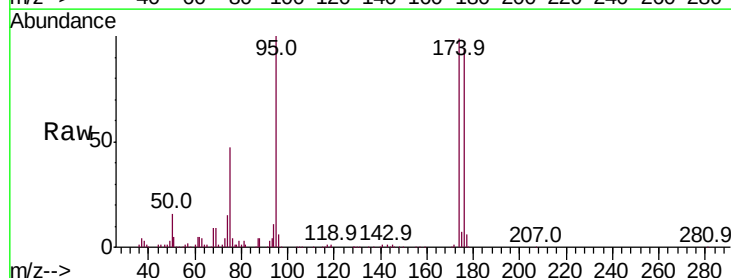
Tgt Ion: 75 Resp: 116050

Ion Ratio Lower Upper

75 100

53 0.2 67.7 101.5#

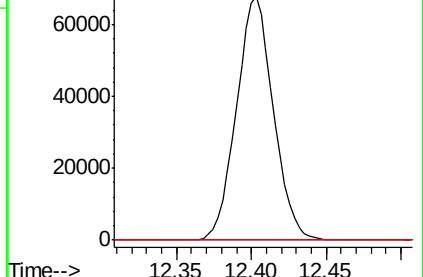
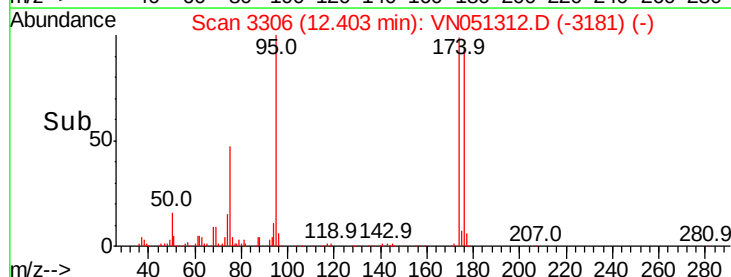
89 0.0 36.9 55.3#

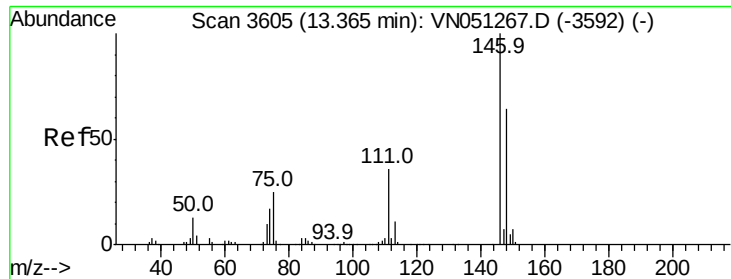


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

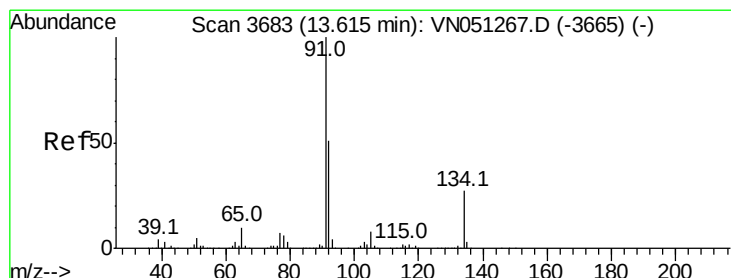
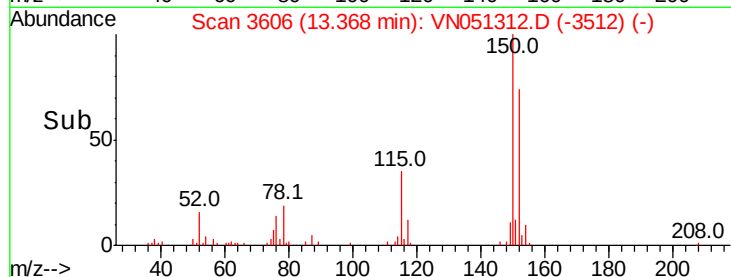
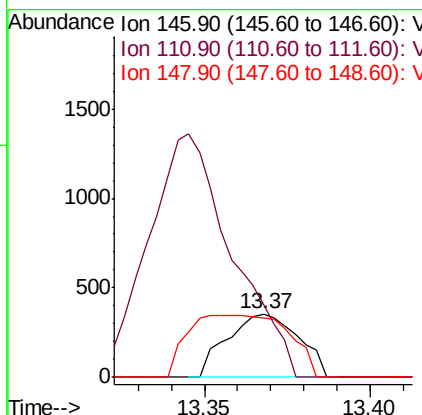
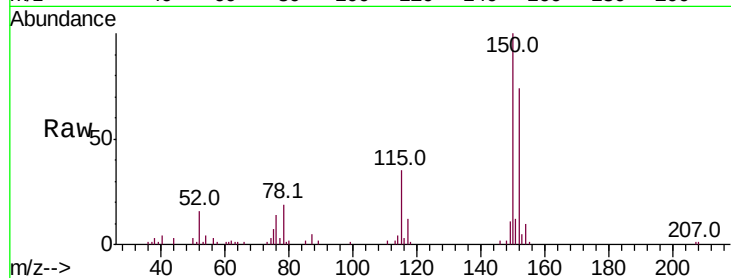




#88
 1,4-Dichlorobenzene
 Concen: 0.491 ug/l
 RT: 13.37 min Scan# 3606
 Delta R.T. 0.00 min
 Lab File: VN051312.D
 Acq: 19 Sep 2018 12:12

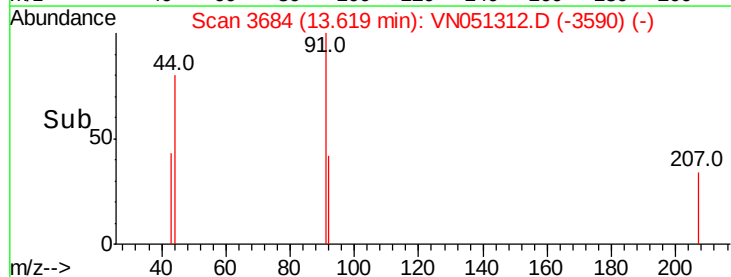
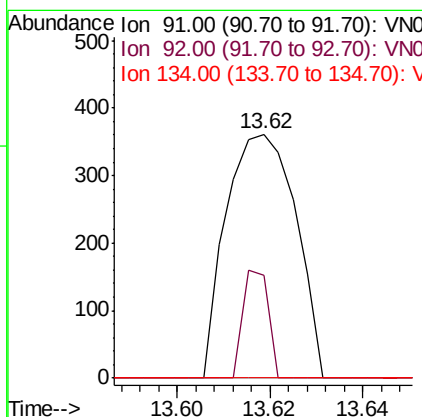
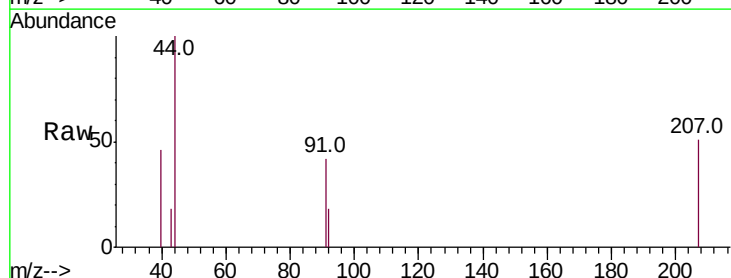
Instrument :
 MSVOA_N
 ClientSampleId :

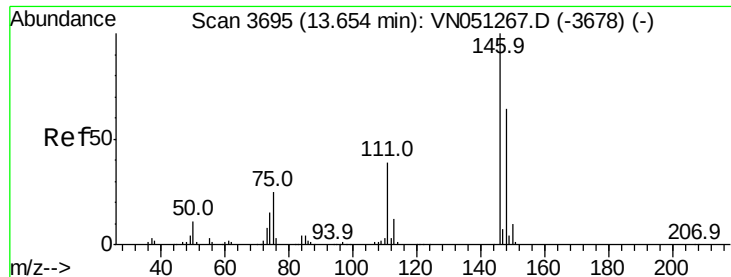
Tot Ion:146 Resp: 532
 Ion Ratio Lower Upper
 146 100
 111 0.0 18.2 54.6#
 148 0.0 31.9 95.7#



#89
 n-Butylbenzene
 Concen: 2.055 ug/l
 RT: 13.62 min Scan# 3684
 Delta R.T. 0.00 min
 Lab File: VN051312.D
 Acq: 19 Sep 2018 12:12

Tgt Ion: 91 Resp: 378
 Ion Ratio Lower Upper
 91 100
 92 15.9 25.8 77.4#
 134 0.0 13.7 41.0#





#91

1,2-Dichlorobenzene

Concen: Below Cal

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN051312.D

Acq: 19 Sep 2018 12:12

Instrument :

MSVOA_N

ClientSampled :

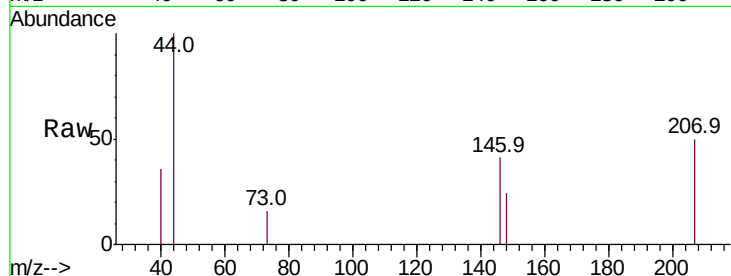
Tot Ion:146 Resp: 545

Ion Ratio Lower Upper

146 100

111 0.0 19.6 58.7#

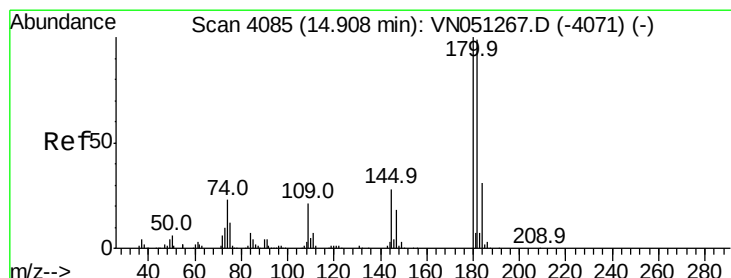
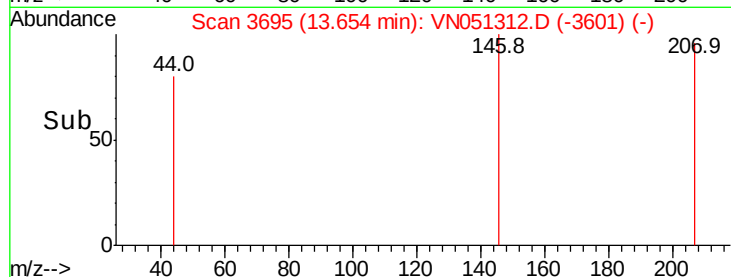
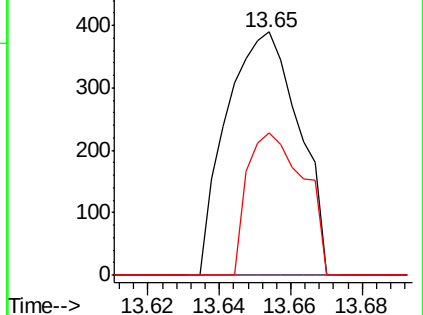
148 45.9 31.9 95.9



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#93

1,2,4-Trichlorobenzene

Concen: 5.117 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN051312.D

Acq: 19 Sep 2018 12:12

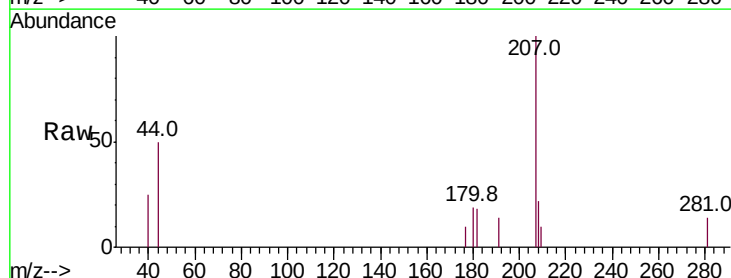
Tgt Ion:180 Resp: 295

Ion Ratio Lower Upper

180 100

182 139.3 48.5 145.6

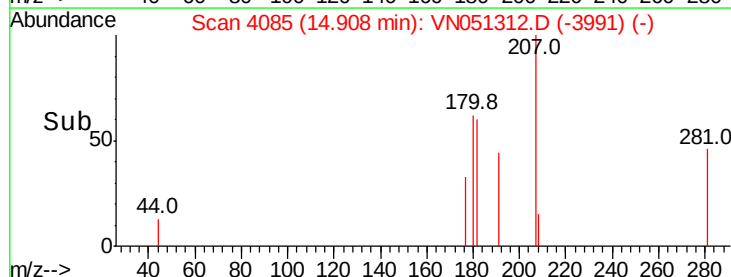
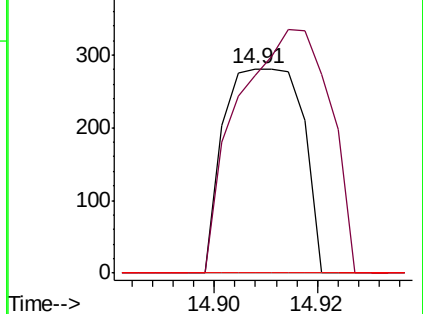
145 0.0 14.0 41.9#

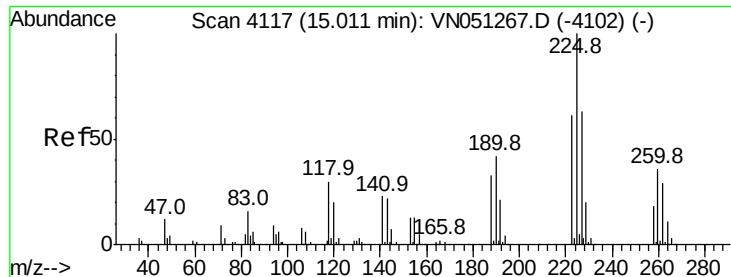


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.01 min Scan# 4117

Delta R.T. 0.00 min

Lab File: VN051312.D

Acq: 19 Sep 2018 12:12

Instrument :

MSVOA_N

ClientSampled :

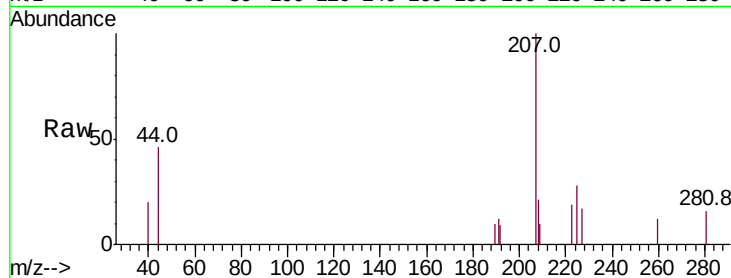
Tot Ion:225 Resp: 810

Ion Ratio Lower Upper

225 100

223 45.6 30.8 92.3

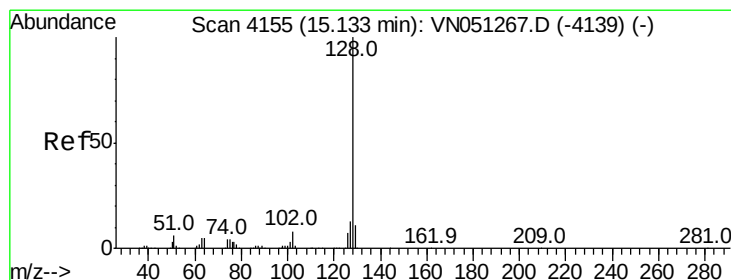
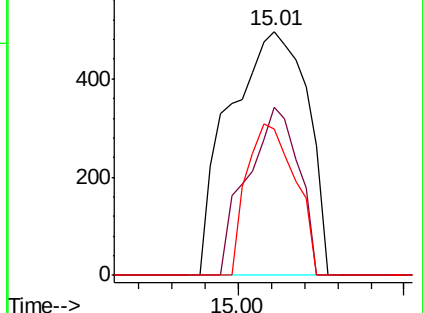
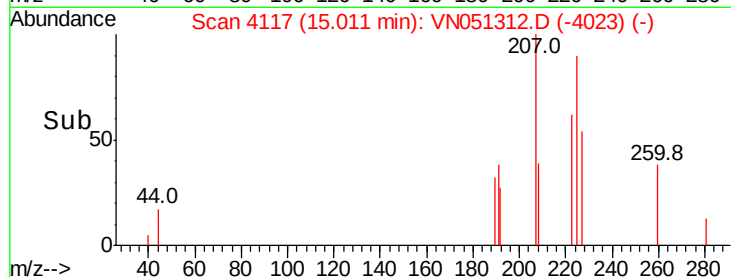
227 38.9 32.1 96.3



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 6.141 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

Lab File: VN051312.D

Acq: 19 Sep 2018 12:12

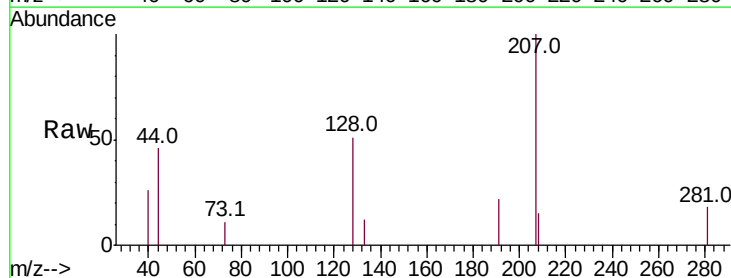
Tgt Ion:128 Resp: 1441

Ion Ratio Lower Upper

128 100

127 7.0 10.7 16.1#

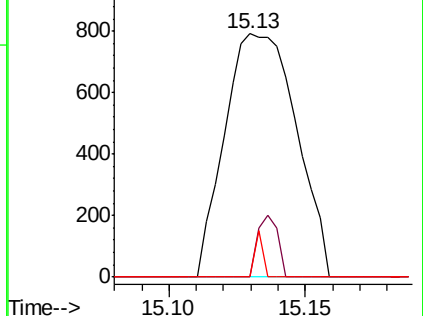
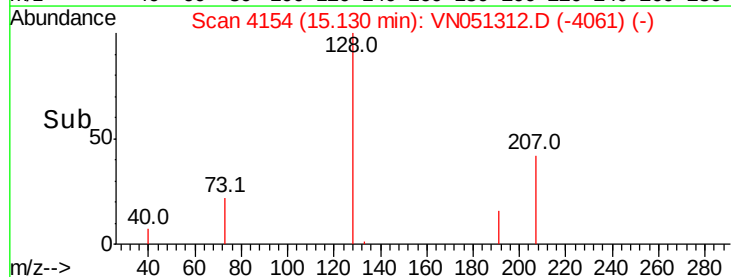
129 2.0 8.9 13.3#

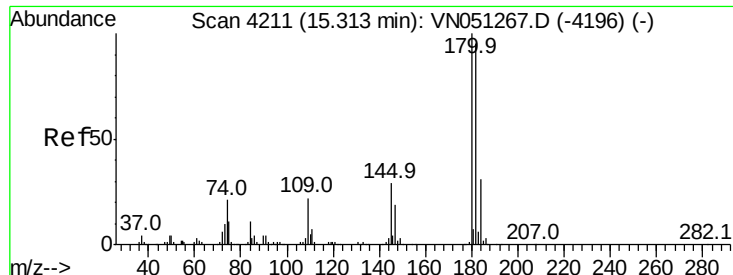


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96

1,2,3-Trichlorobenzene

Concen: 3.950 ug/l

RT: 15.31 min Scan# 4209

Delta R.T. -0.01 min

Lab File: VN051312.D

Acq: 19 Sep 2018 12:12

Instrument :

MSVOA_N

ClientSampleId :

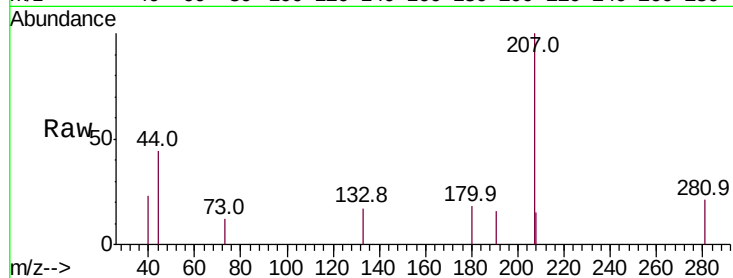
Tot Ion:180 Resp: 283

Ion Ratio Lower Upper

180 100

182 86.9 47.5 142.6

145 0.0 14.8 44.4#



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

