

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN122018\
 Data File : VN053080.D
 Acq On : 21 Dec 2018 2:35
 Operator : MD\SY
 Sample : J6519-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 41 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 21 03:07:37 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 18 13:03:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1309244	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2004029	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1773044	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	702925	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	637289	47.97	ug/l	0.00
Spiked Amount			Recovery	=	95.94%	
35) Dibromofluoromethane	7.59	113	560936	61.27	ug/l	0.00
Spiked Amount			Recovery	=	122.54%	
50) Toluene-d8	10.09	98	2445567	49.76	ug/l	0.00
Spiked Amount			Recovery	=	99.52%	
62) 4-Bromofluorobenzene	12.40	95	798944	46.31	ug/l	0.00
Spiked Amount			Recovery	=	92.62%	

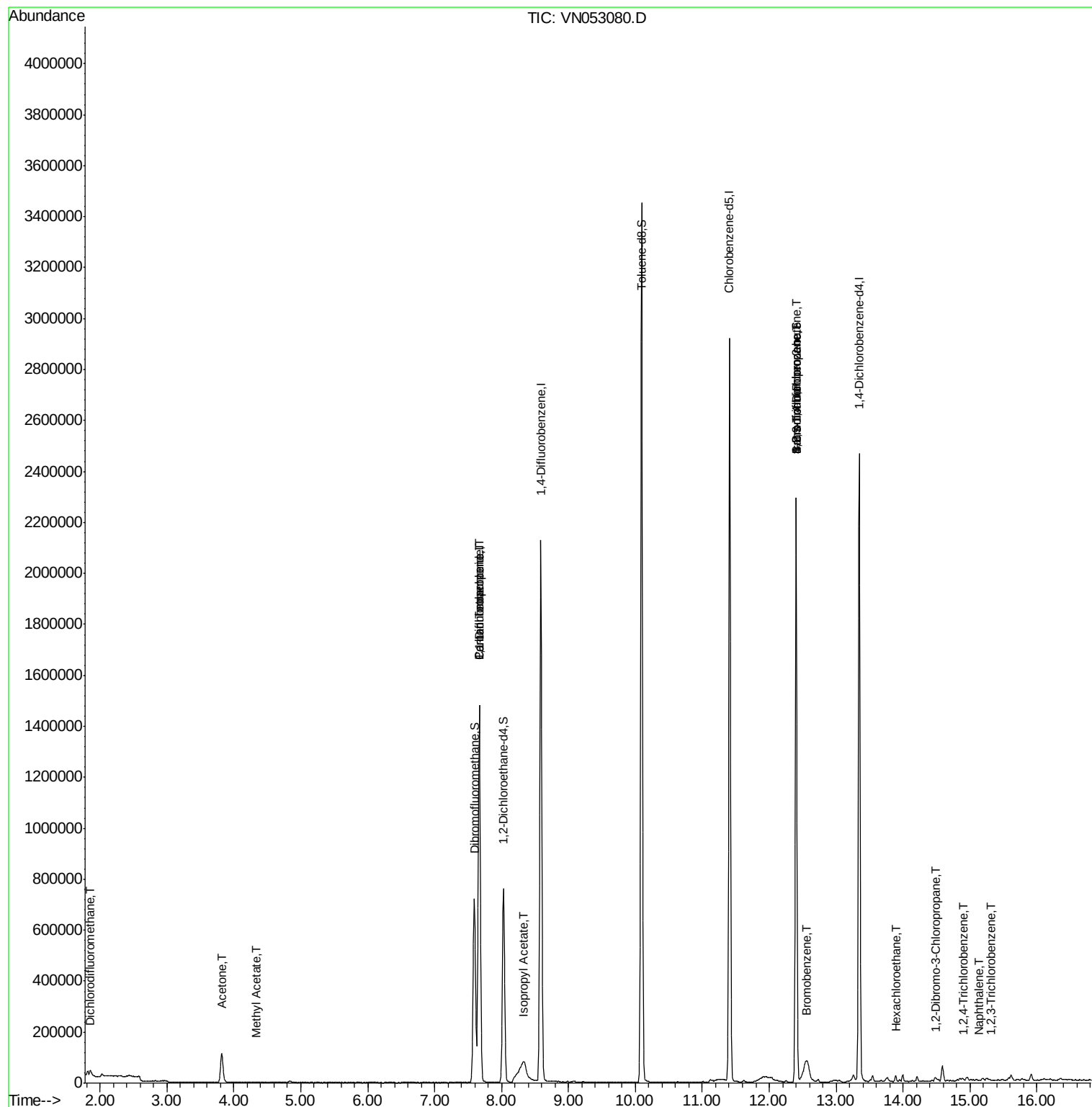
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	14660	1.106	ug/l	98
16) Acetone	3.82	43	198024	76.016	ug/l	97
18) Methyl Acetate	4.33	43	2396	1.191	ug/l #	65
31) Cyclohexane	7.66	56	20501	Below Cal	#	1
36) 1,1-Dichloropropene	7.67	75	86910	4.518	ug/l #	48
38) Carbon Tetrachloride	7.67	117	112103	6.358	ug/l #	16
43) Isopropyl Acetate	8.32	43	238447	10.653	ug/l #	53
71) Bromoform	12.40	173	4682	0.474	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	371620	31.405	ug/l #	100
77) Bromobenzene	12.55	156	54387	3.804	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.40	75	371620	101.223	ug/l #	12
90) Hexachloroethane	13.89	117	1514	0.213	ug/l #	4
92) 1,2-Dibromo-3-Chloropropan	14.48	75	421	0.226	ug/l #	18
93) 1,2,4-Trichlorobenzene	14.91	180	237	0.615	ug/l #	50
95) Naphthalene	15.13	128	1675	1.206	ug/l #	81
96) 1,2,3-Trichlorobenzene	15.32	180	32	0.511	ug/l #	1

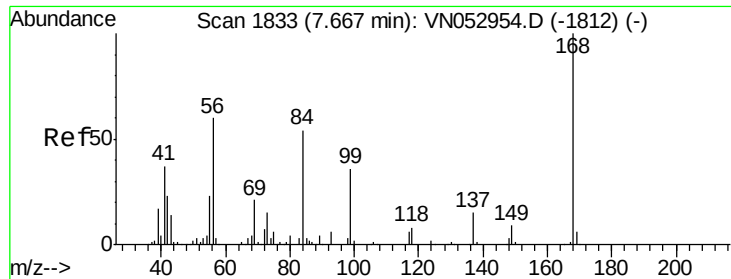
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN053080.D

Acq: 21 Dec 2018 2:35

Instrument :

MSVOA_N

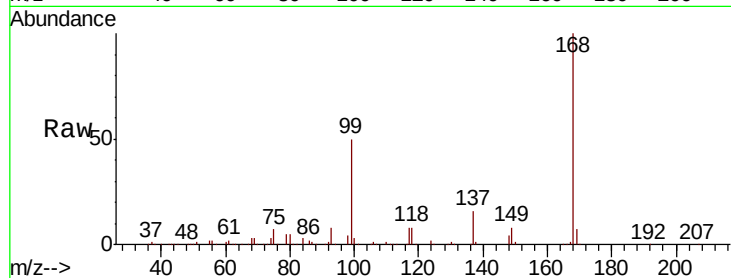
ClientSampled :

Tot Ion:168 Resp: 1309244

Ion Ratio Lower Upper

168 100

99 49.6 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

600000

500000

400000

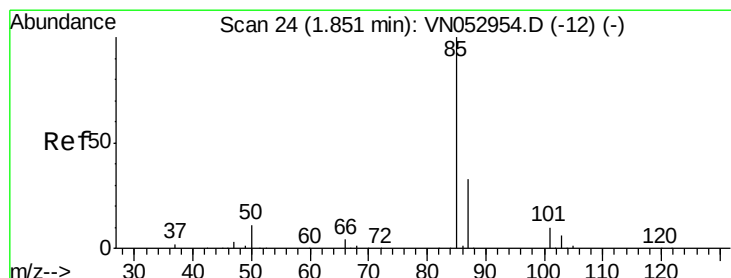
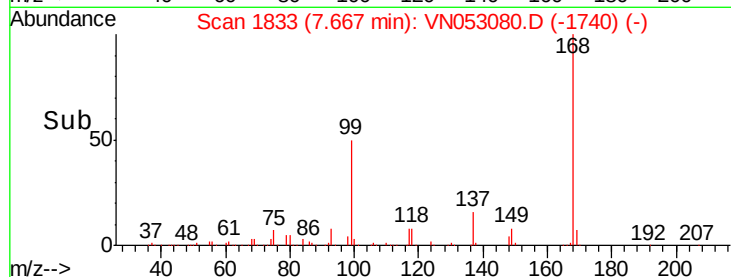
300000

200000

100000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 1.106 ug/l

RT: 1.85 min Scan# 25

Delta R.T. 0.00 min

Lab File: VN053080.D

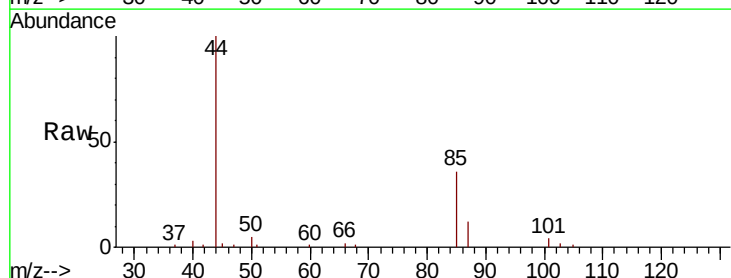
Acq: 21 Dec 2018 2:35

Tgt Ion: 85 Resp: 14660

Ion Ratio Lower Upper

85 100

87 33.9 16.3 48.8



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

12000

10000

8000

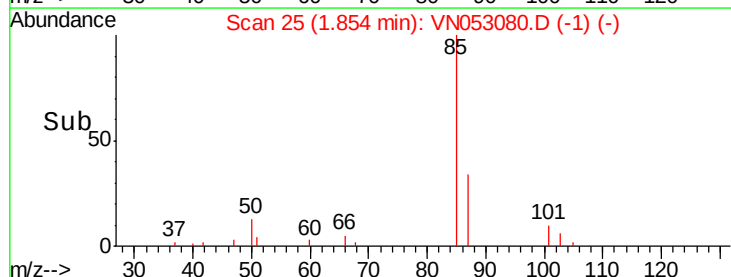
6000

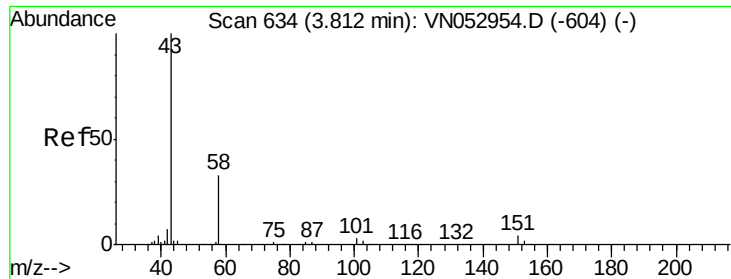
4000

2000

0

Time-->





#16

Acetone

Concen: 76.016 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN053080.D

Acq: 21 Dec 2018 2:35

Instrument :

MSVOA_N

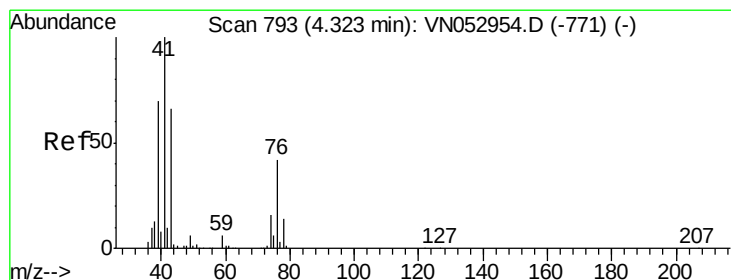
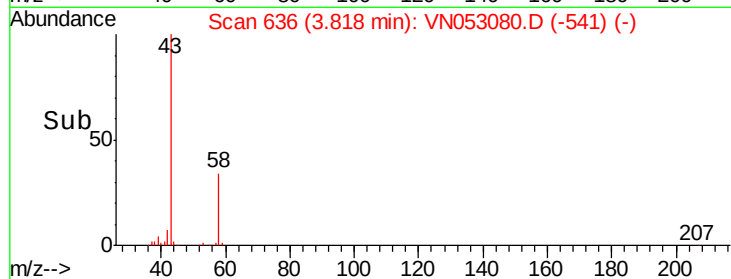
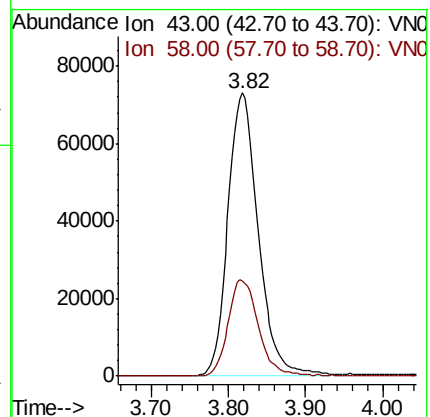
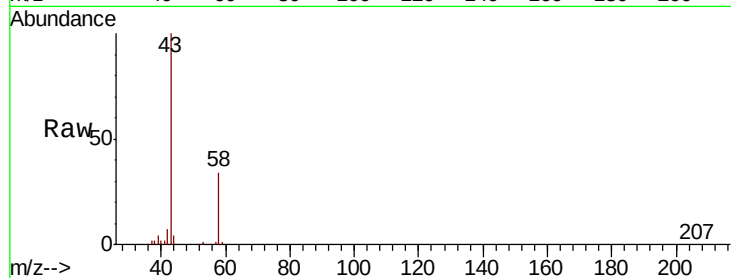
ClientSampled :

Tot Ion: 43 Resp: 198024

Ion Ratio Lower Upper

43 100

58 33.6 25.4 38.0



#18

Methyl Acetate

Concen: 1.191 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN053080.D

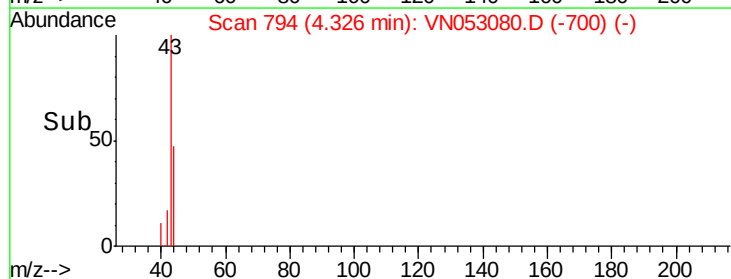
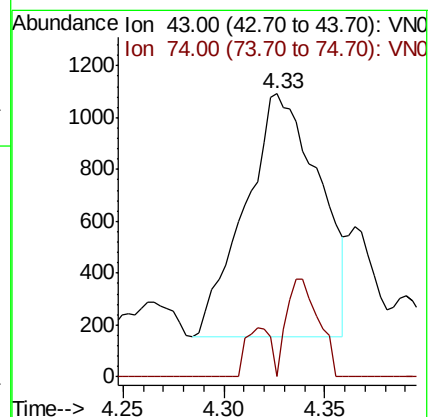
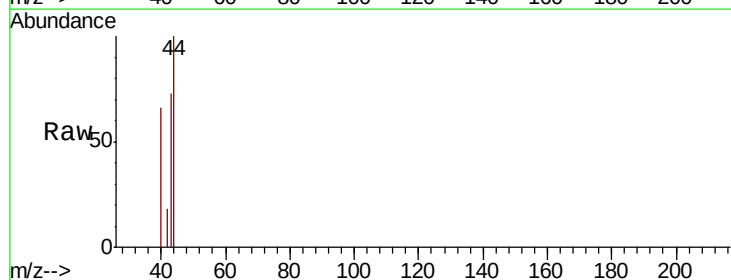
Acq: 21 Dec 2018 2:35

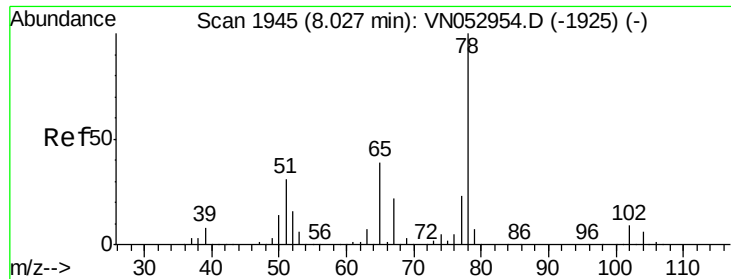
Tgt Ion: 43 Resp: 2396

Ion Ratio Lower Upper

43 100

74 6.8 19.2 28.8#

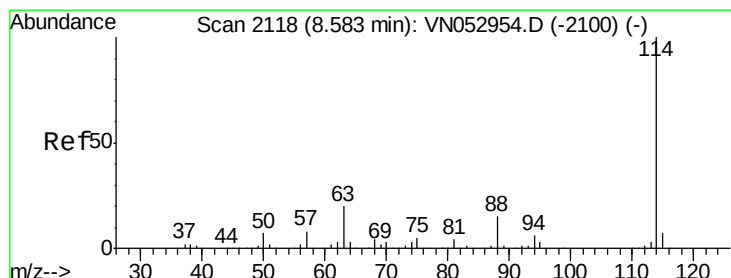
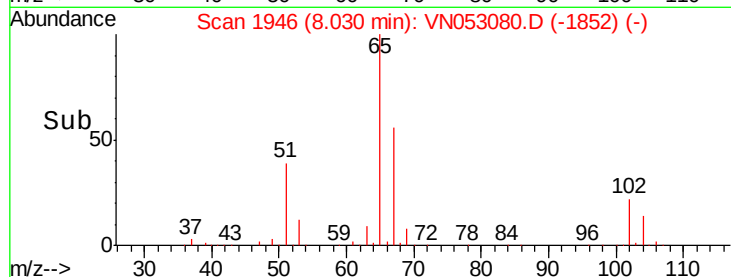
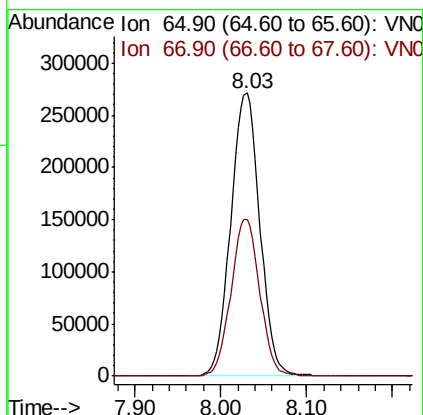
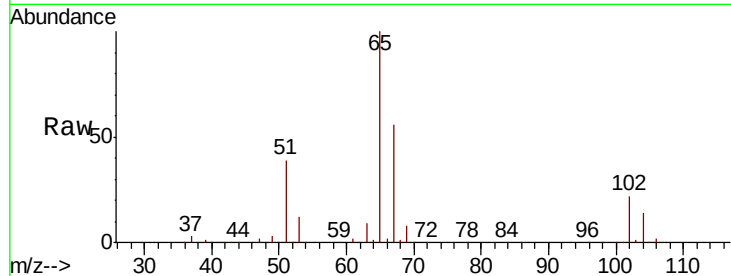




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN053080.D
 Acq: 21 Dec 2018 2:35

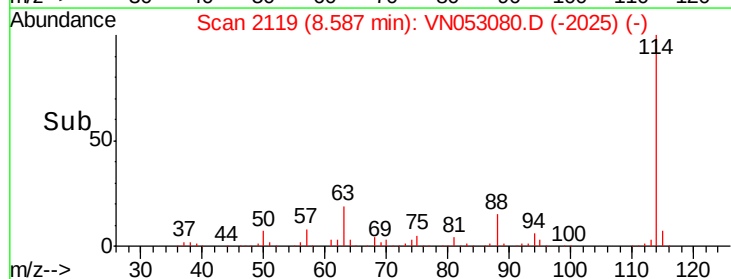
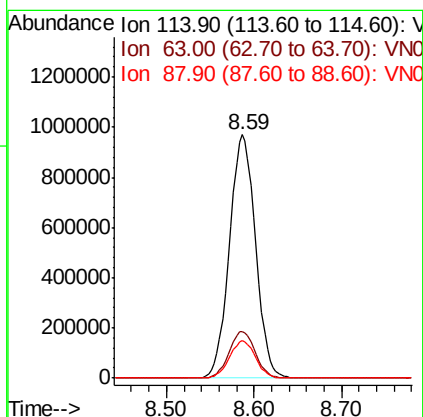
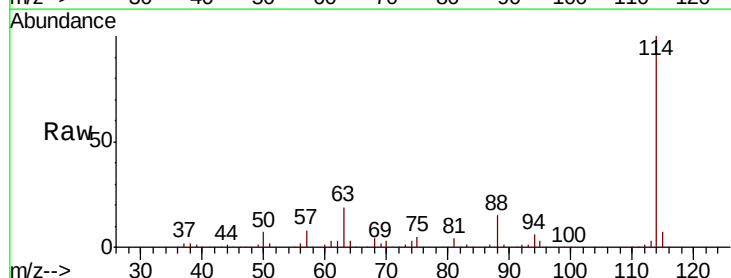
Instrument :
 MSVOA_N
 ClientSampleId :

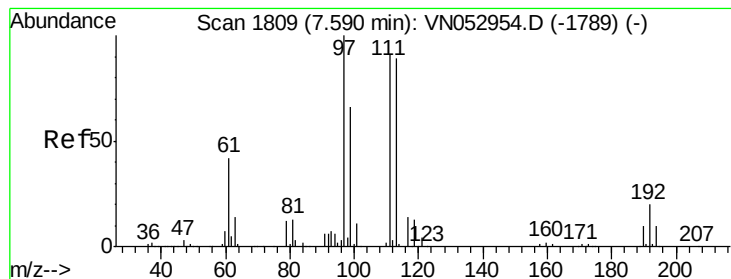
Tot Ion: 65 Resp: 637289
 Ion Ratio Lower Upper
 65 100
 67 54.9 0.0 110.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053080.D
 Acq: 21 Dec 2018 2:35

Tgt Ion: 114 Resp: 2004029
 Ion Ratio Lower Upper
 114 100
 63 19.3 0.0 39.8
 88 15.3 0.0 31.0





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN053080.D

Acq: 21 Dec 2018 2:35

Instrument :

MSVOA_N

ClientSampled :

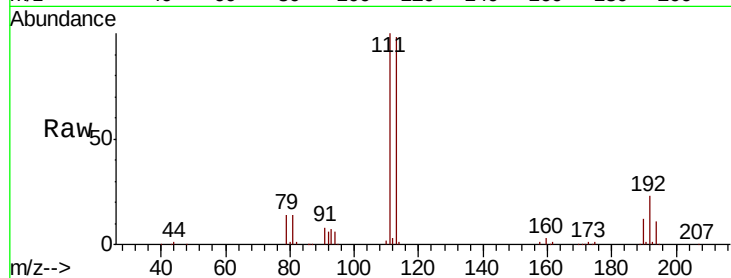
Tot Ion:113 Resp: 560936

Ion Ratio Lower Upper

113 100

111 102.2 83.0 124.4

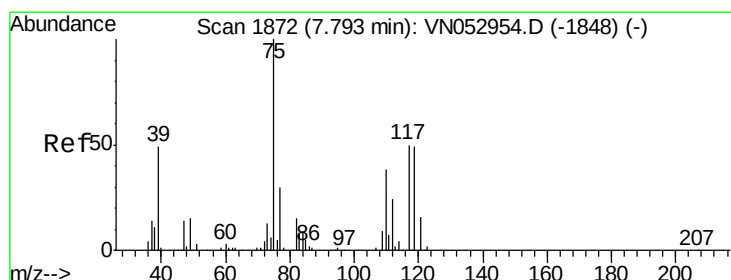
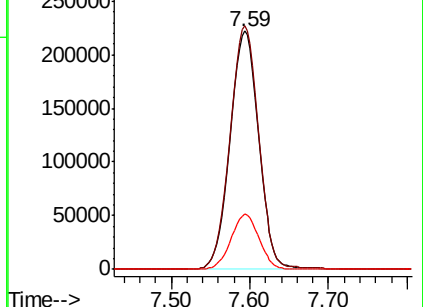
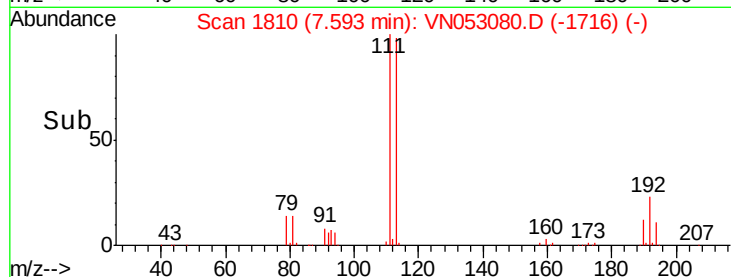
192 22.8 17.5 26.3



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: 4.518 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN053080.D

Acq: 21 Dec 2018 2:35

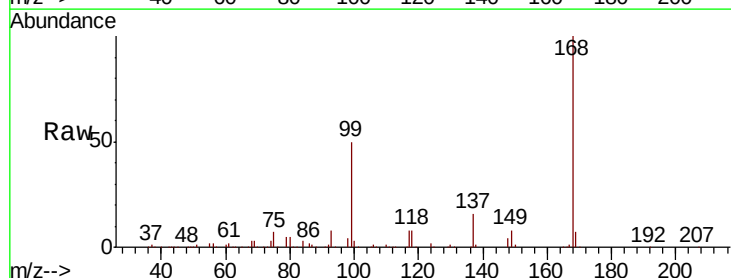
Tgt Ion: 75 Resp: 86910

Ion Ratio Lower Upper

75 100

110 8.4 18.2 54.6#

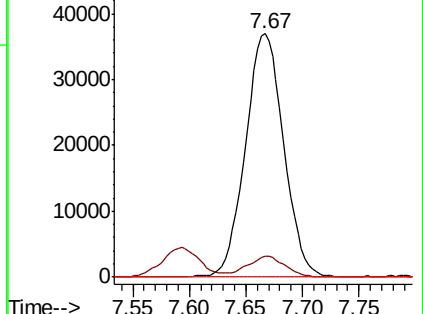
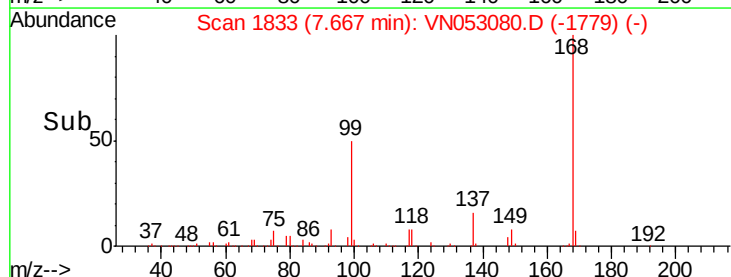
77 0.0 24.9 37.3#

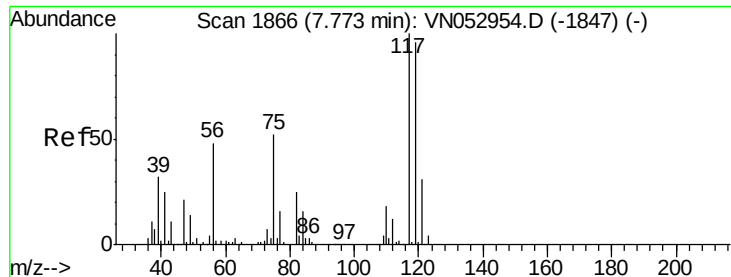


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

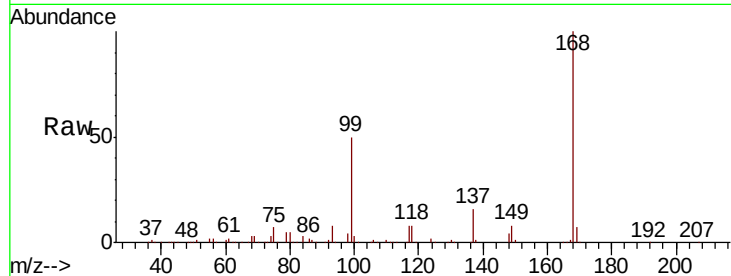




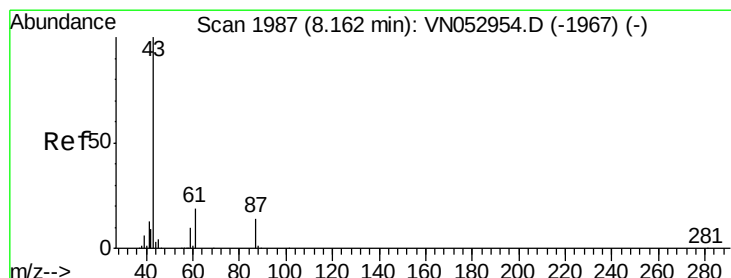
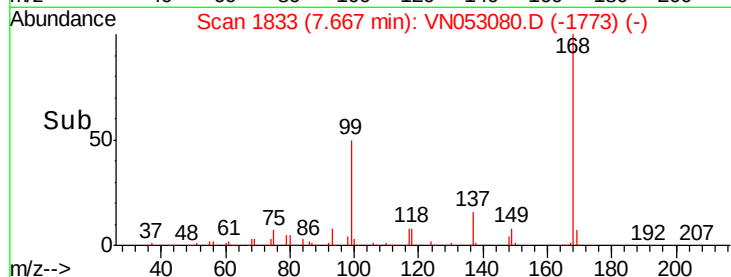
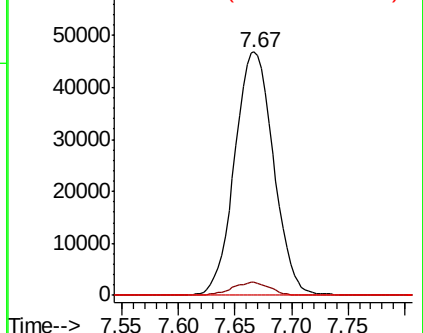
#38
Carbon Tetrachloride
Concen: 6.358 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.11 min
Lab File: VN053080.D
Acq: 21 Dec 2018 2:35

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 112103
Ion Ratio Lower Upper
117 100
119 5.3 77.1 115.7#
121 0.0 24.9 37.3#

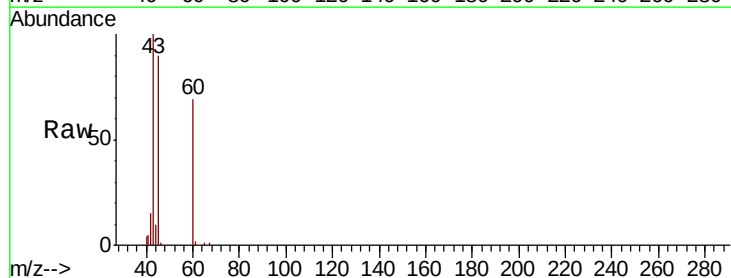


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

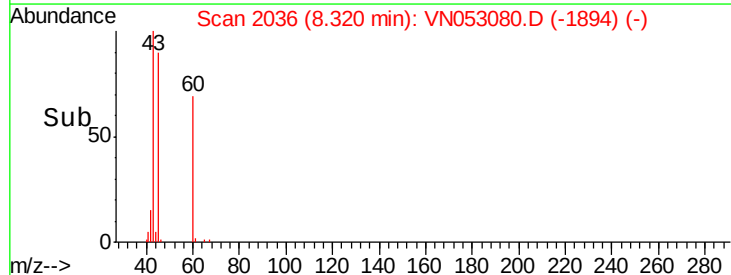
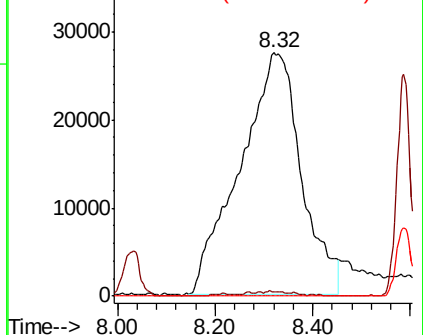


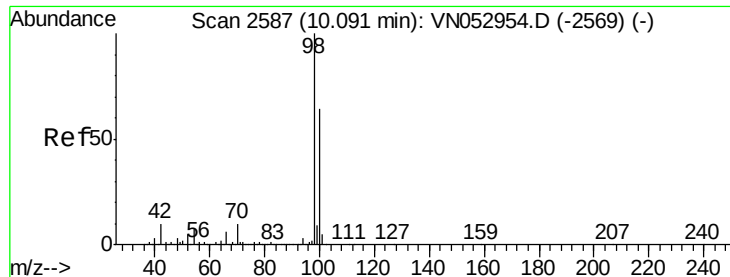
#43
Isopropyl Acetate
Concen: 10.653 ug/l
RT: 8.32 min Scan# 2036
Delta R.T. 0.16 min
Lab File: VN053080.D
Acq: 21 Dec 2018 2:35

Tgt Ion: 43 Resp: 238447
Ion Ratio Lower Upper
43 100
61 0.0 22.9 34.3#
87 0.0 10.6 15.8#



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 61.00 (60.70 to 61.70): V
Ion 87.00 (86.70 to 87.70): V





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN053080.D

Acq: 21 Dec 2018 2:35

Instrument :

MSVOA_N

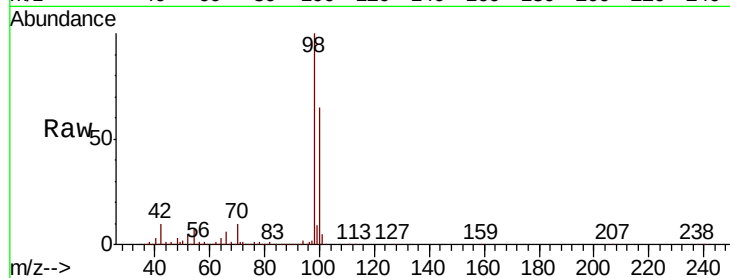
ClientSampleId :

Tot Ion: 98 Resp: 2445567

Ion Ratio Lower Upper

98 100

100 64.5 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VN052954.D (-2569) (-)

Ion 100.00 (99.70 to 100.70): VN052954.D (-2569) (-)

10.09

1500000

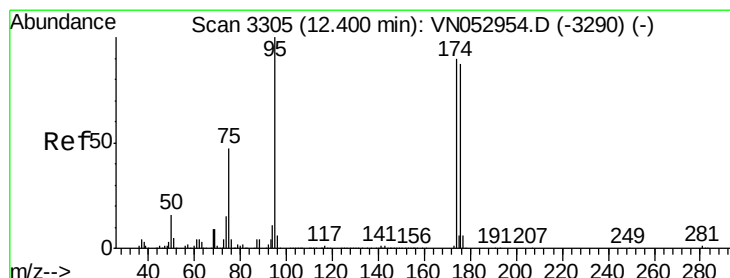
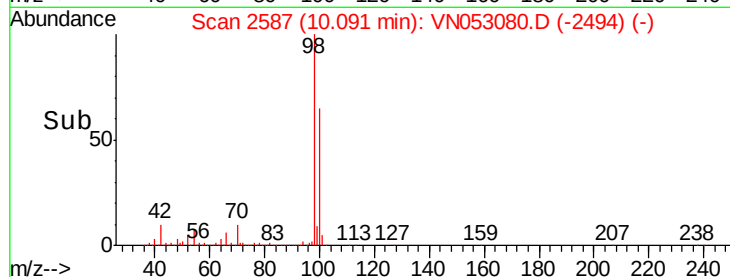
1000000

500000

0

Time-->

10.00 10.10 10.20



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN053080.D

Acq: 21 Dec 2018 2:35

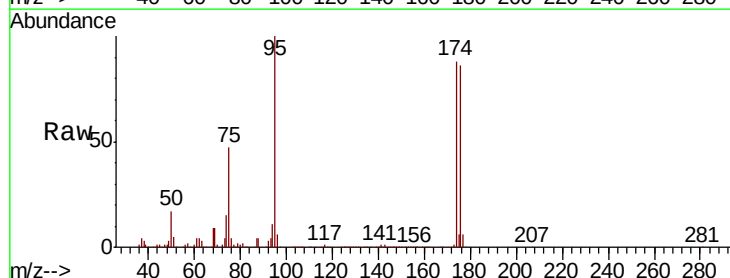
Tgt Ion: 95 Resp: 798944

Ion Ratio Lower Upper

95 100

174 89.4 0.0 178.8

176 87.1 0.0 173.8



Abundance Ion 94.90 (94.60 to 95.60): VN052954.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN052954.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN052954.D (-3290) (-)

12.40

600000

500000

400000

300000

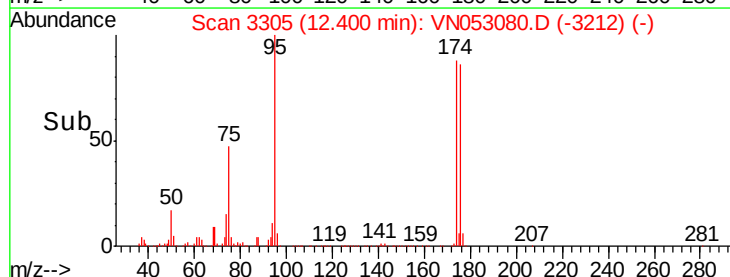
200000

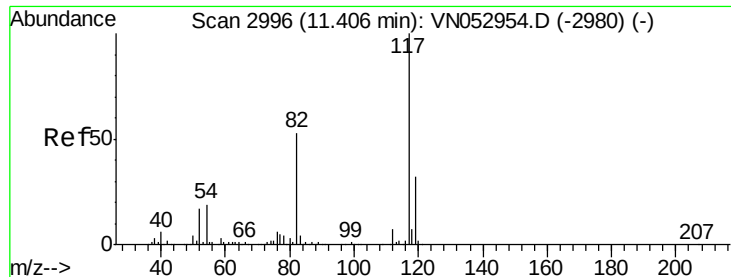
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0

Time-->

12.30 12.35 12.40 12.45

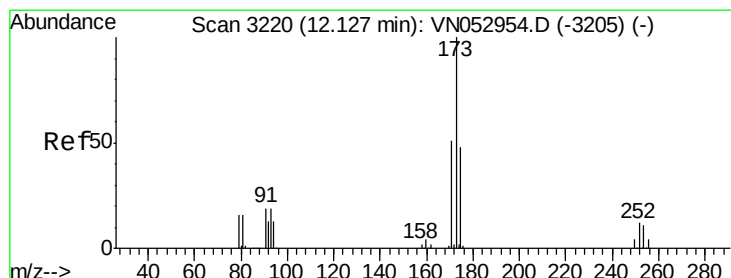
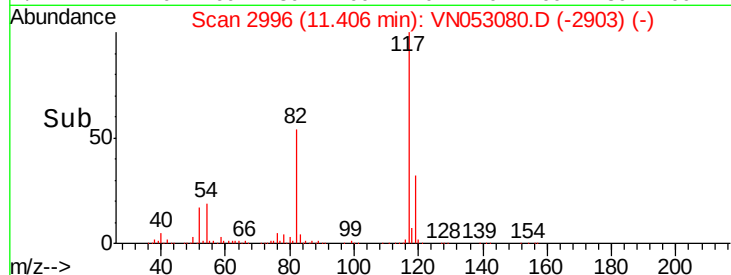
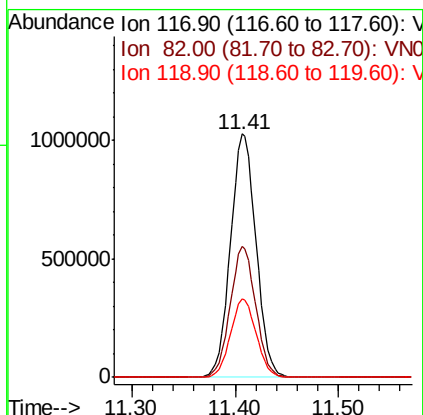
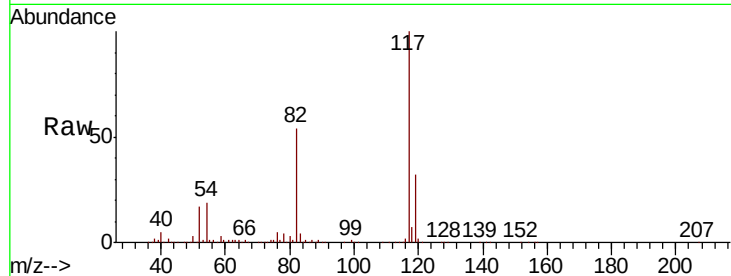




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN053080.D
Acq: 21 Dec 2018 2:35

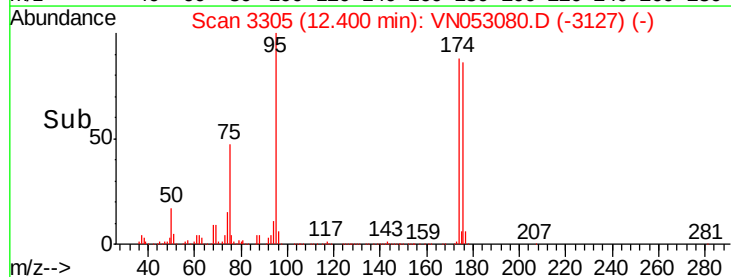
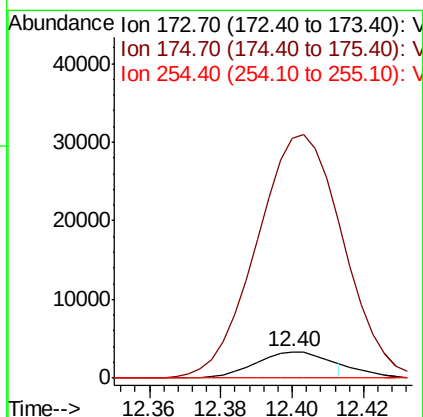
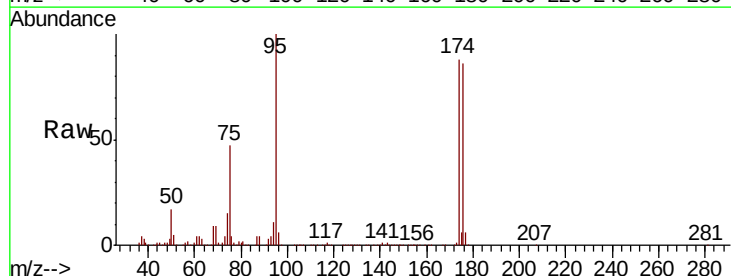
Instrument :
MSVOA_N
ClientSampled :

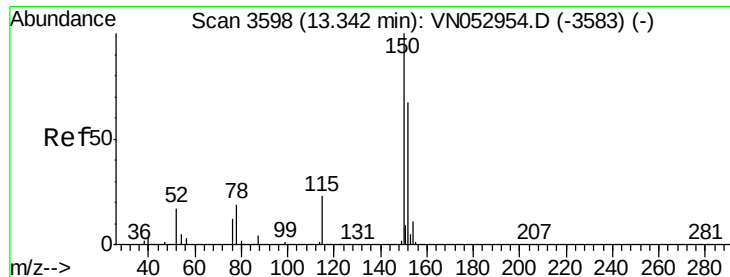
Tot Ion:117 Resp: 1773044
Ion Ratio Lower Upper
117 100
82 54.0 42.8 64.2
119 32.3 25.5 38.3



#71
Bromoform
Concen: 0.474 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN053080.D
Acq: 21 Dec 2018 2:35

Tgt Ion:173 Resp: 4682
Ion Ratio Lower Upper
173 100
175 964.2 24.3 72.9#
254 0.0 0.1 0.1#



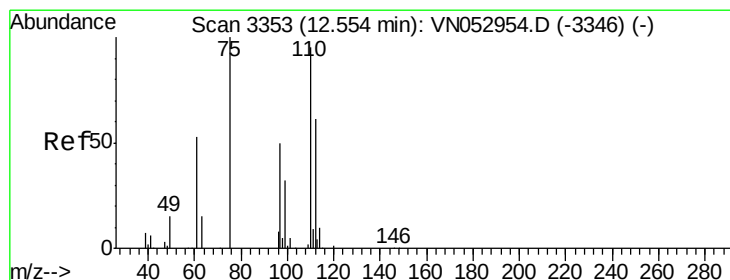
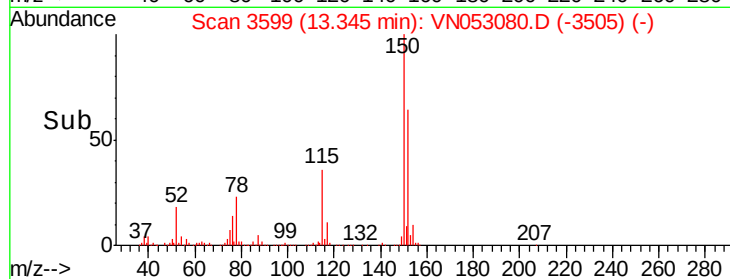
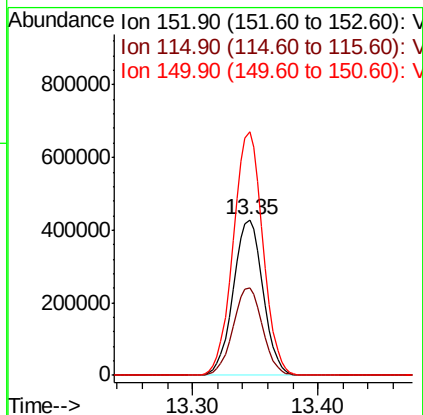
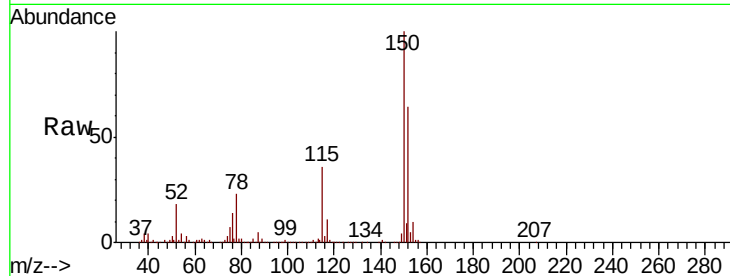


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN053080.D
Acq: 21 Dec 2018 2:35

Instrument :
MSVOA_N
ClientSampled :

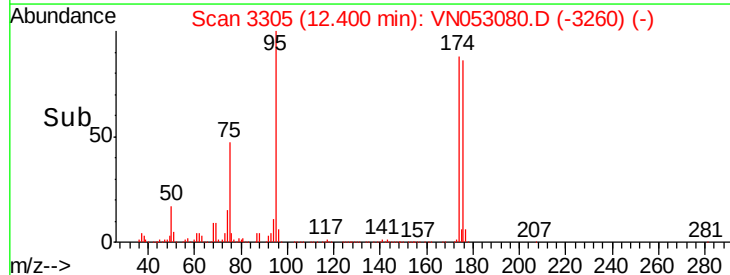
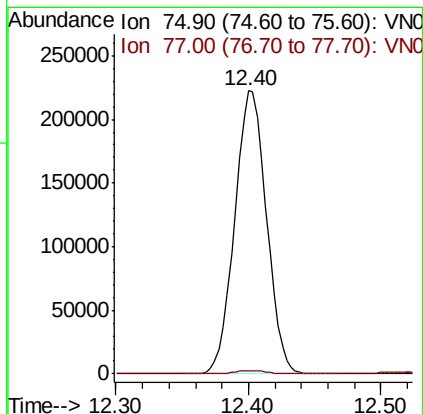
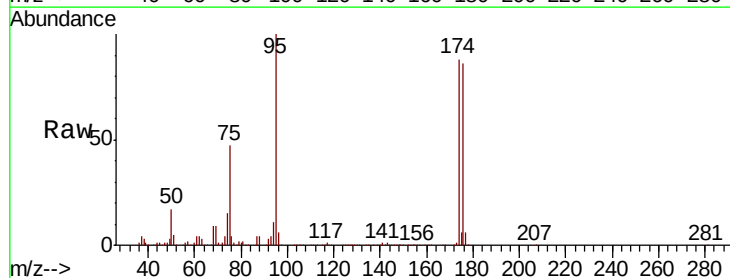
Tot Ion:152 Resp: 702925
Ion Ratio Lower Upper
152 100
115 56.3 28.3 85.0
150 156.4 0.0 347.8

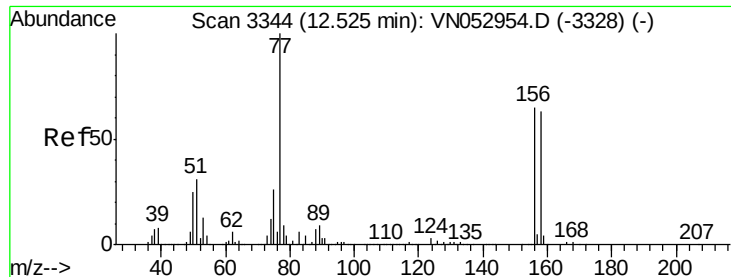


#76

1,2,3-Trichloropropane
Concen: 31.405 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.15 min
Lab File: VN053080.D
Acq: 21 Dec 2018 2:35

Tgt Ion: 75 Resp: 371620
Ion Ratio Lower Upper
75 100
77 1.2 0.0 0.0#





#77

Bromobenzene

Concen: 3.804 ug/l

RT: 12.55 min Scan# 3351

Delta R.T. 0.02 min

Lab File: VN053080.D

Acq: 21 Dec 2018 2:35

Instrument :

MSVOA_N

ClientSampleId :

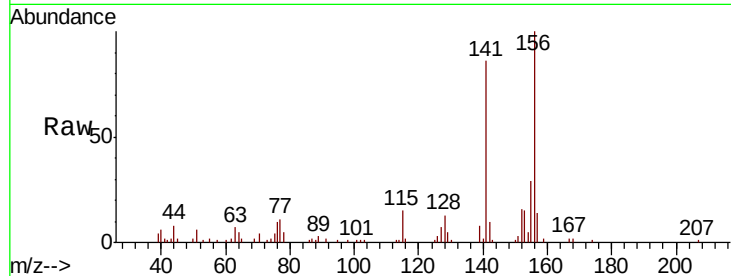
Tot Ion:156 Resp: 54387

Ion Ratio Lower Upper

156 100

77 21.4 91.3 273.8#

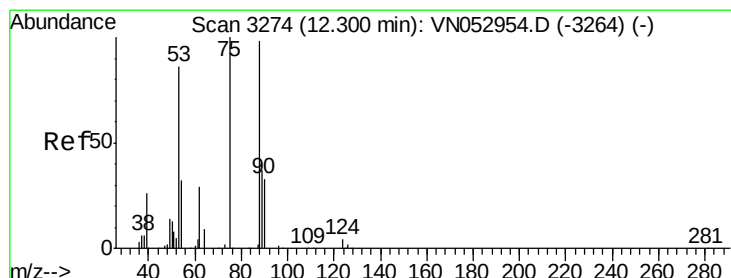
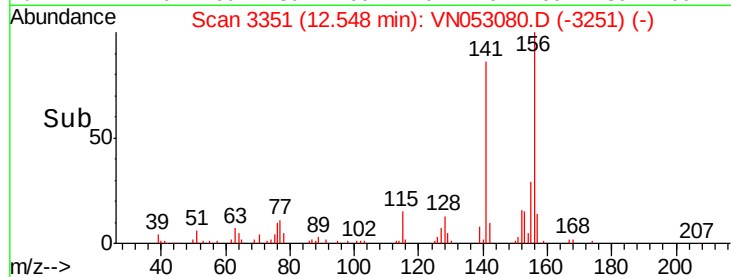
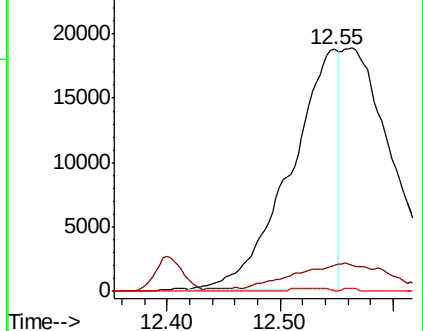
158 0.4 49.0 147.2#



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: 101.223 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053080.D

Acq: 21 Dec 2018 2:35

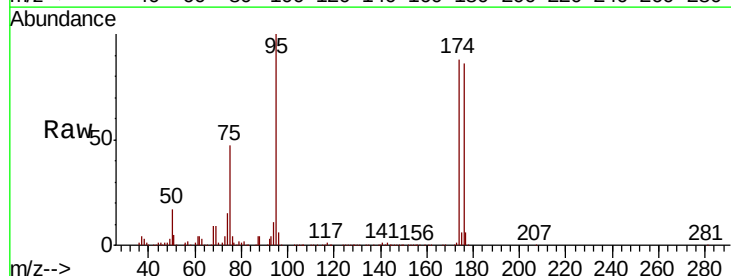
Tgt Ion: 75 Resp: 371620

Ion Ratio Lower Upper

75 100

53 0.0 74.7 112.1#

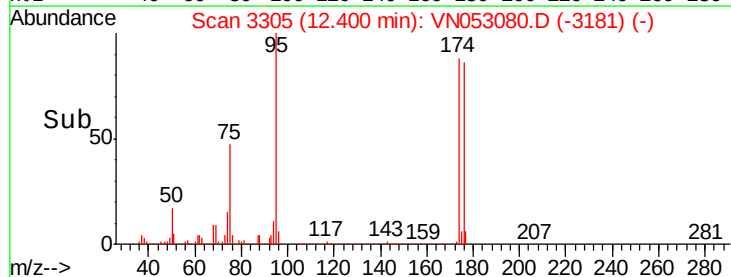
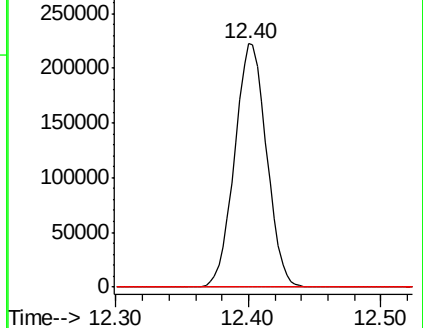
89 0.0 36.1 54.1#

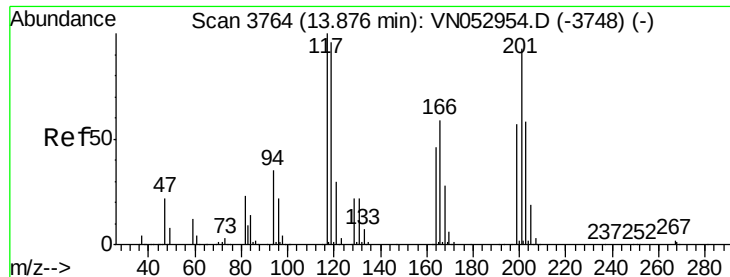


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#90

Hexachloroethane

Concen: 0.213 ug/l

RT: 13.89 min Scan# 3769

Delta R.T. 0.02 min

Lab File: VN053080.D

Acq: 21 Dec 2018 2:35

Instrument :

MSVOA_N

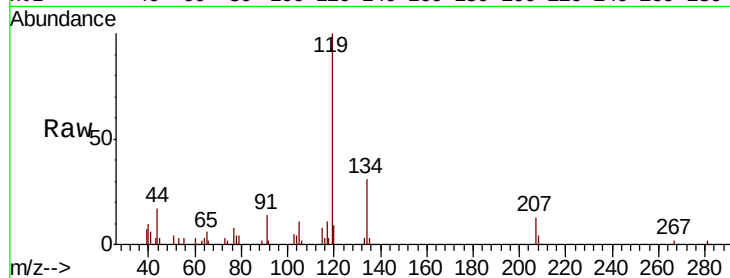
ClientSampleId :

Tot Ion:117 Resp: 1514

Ion Ratio Lower Upper

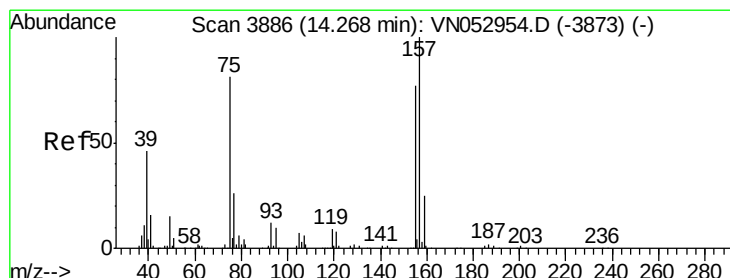
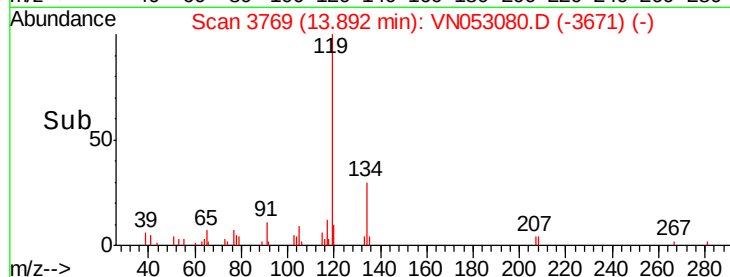
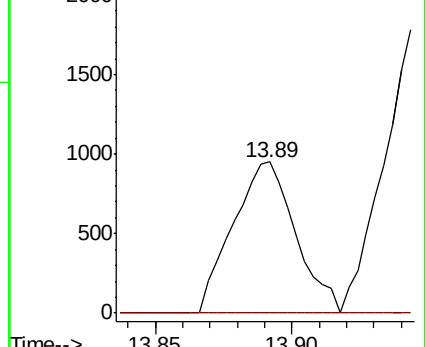
117 100

201 0.0 45.7 137.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.226 ug/l

RT: 14.48 min Scan# 3953

Delta R.T. 0.22 min

Lab File: VN053080.D

Acq: 21 Dec 2018 2:35

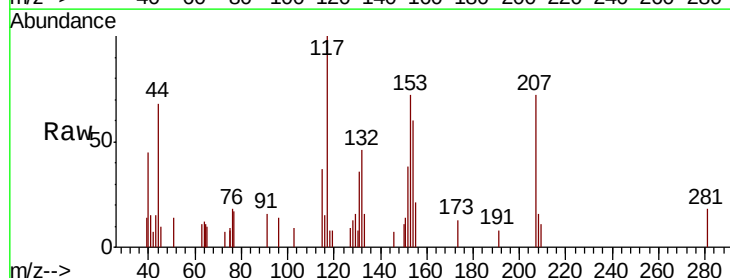
Tgt Ion: 75 Resp: 421

Ion Ratio Lower Upper

75 100

155 49.6 48.2 144.6

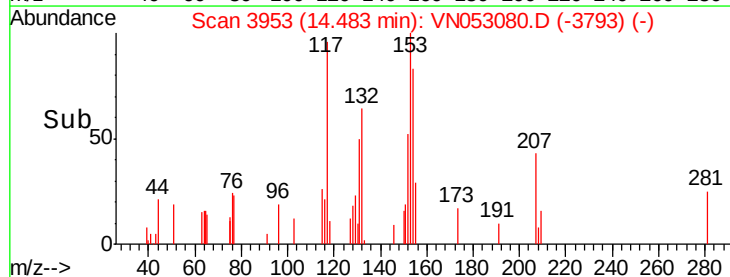
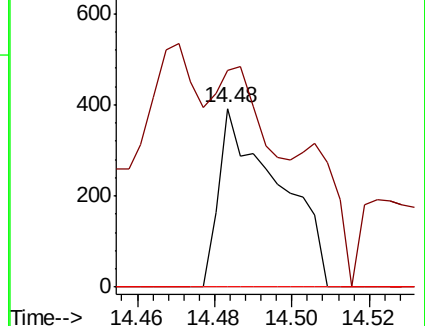
157 0.0 61.2 183.5#

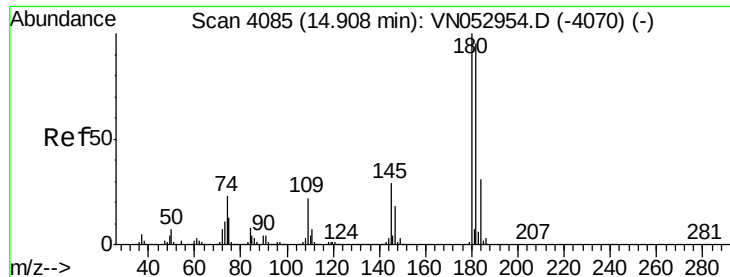


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#93

1,2,4-Trichlorobenzene

Concen: 0.615 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN053080.D

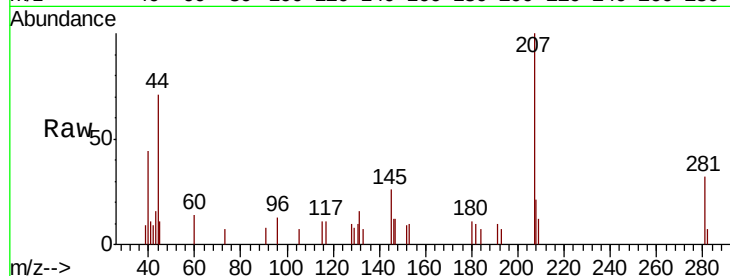
Acq: 21 Dec 2018 2:35

Instrument :

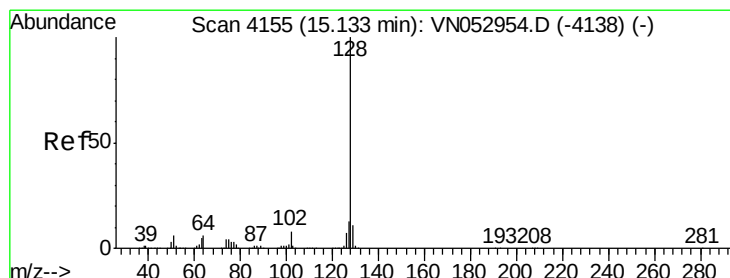
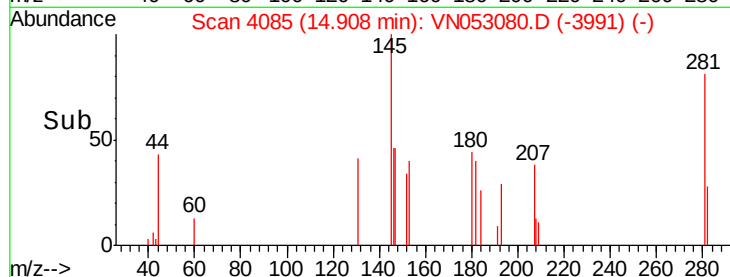
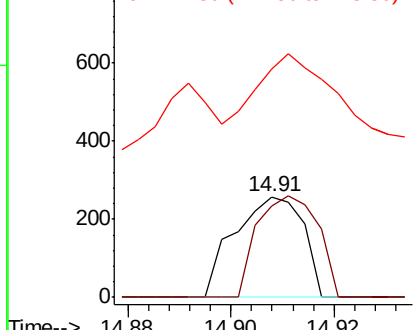
MSVOA_N

ClientSampled :

Tot Ion:	180	Resp:	237
Ion	Ratio	Lower	Upper
180	100		
182	89.0	47.8	143.3
145	132.9	14.2	42.6#



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



#95

Naphthalene

Concen: 1.206 ug/l

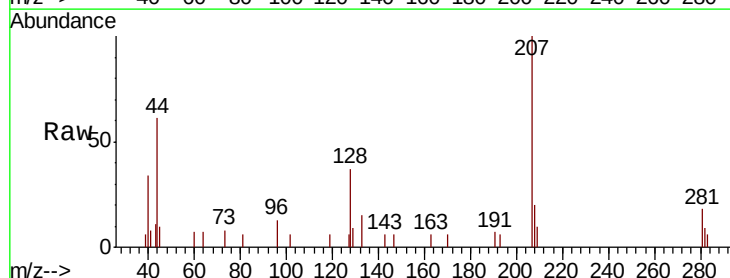
RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

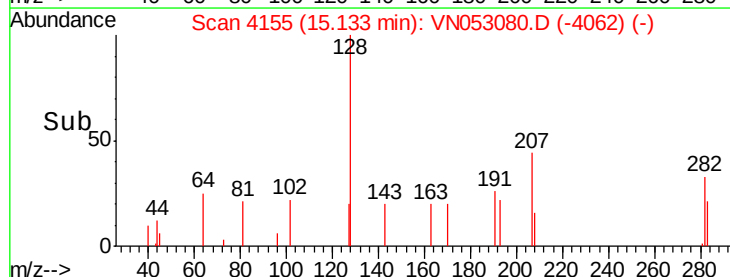
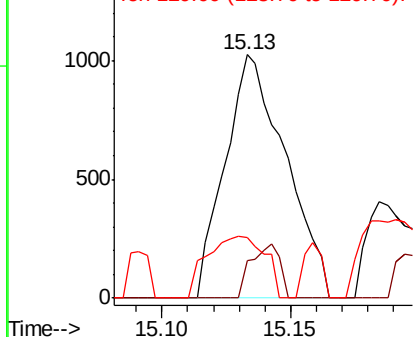
Lab File: VN053080.D

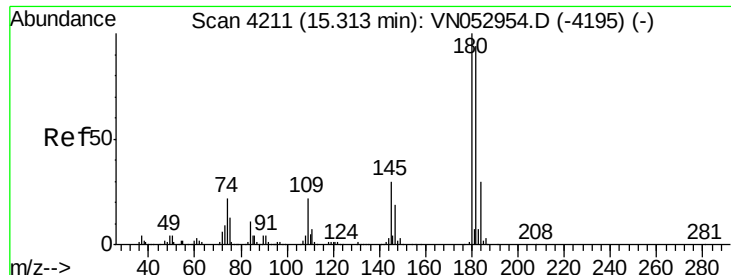
Acq: 21 Dec 2018 2:35

Tgt Ion:	128	Resp:	1675
Ion	Ratio	Lower	Upper
128	100		
127	10.6	10.2	15.4
129	24.3	8.6	13.0#



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

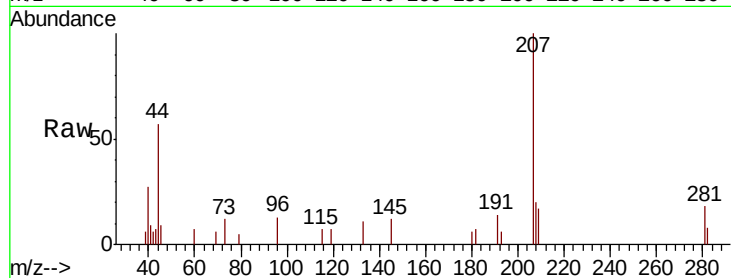




#96
 1,2,3-Trichlorobenzene
 Concen: 0.511 ug/l
 RT: 15.32 min Scan# 4214
 Delta R.T. 0.01 min
 Lab File: VN053080.D
 Acq: 21 Dec 2018 2:35

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	540.6	47.9	143.7#
145	0.0	15.0	45.0#



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

