

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021419\
 Data File : VN053783.D
 Acq On : 14 Feb 2019 16:56
 Operator : JC/SP
 Sample : PB117097ZHE#03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 15 01:05:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 01 09:11:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	747600	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1255093	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1169342	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	456636	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	397889	53.05	ug/l	0.00
Spiked Amount			Recovery	=	106.10%	
35) Dibromofluoromethane	7.59	113	399118	50.33	ug/l	0.00
Spiked Amount			Recovery	=	100.66%	
50) Toluene-d8	10.09	98	1524222	51.19	ug/l	0.00
Spiked Amount			Recovery	=	102.38%	
62) 4-Bromofluorobenzene	12.40	95	502503	50.60	ug/l	0.00
Spiked Amount			Recovery	=	101.20%	

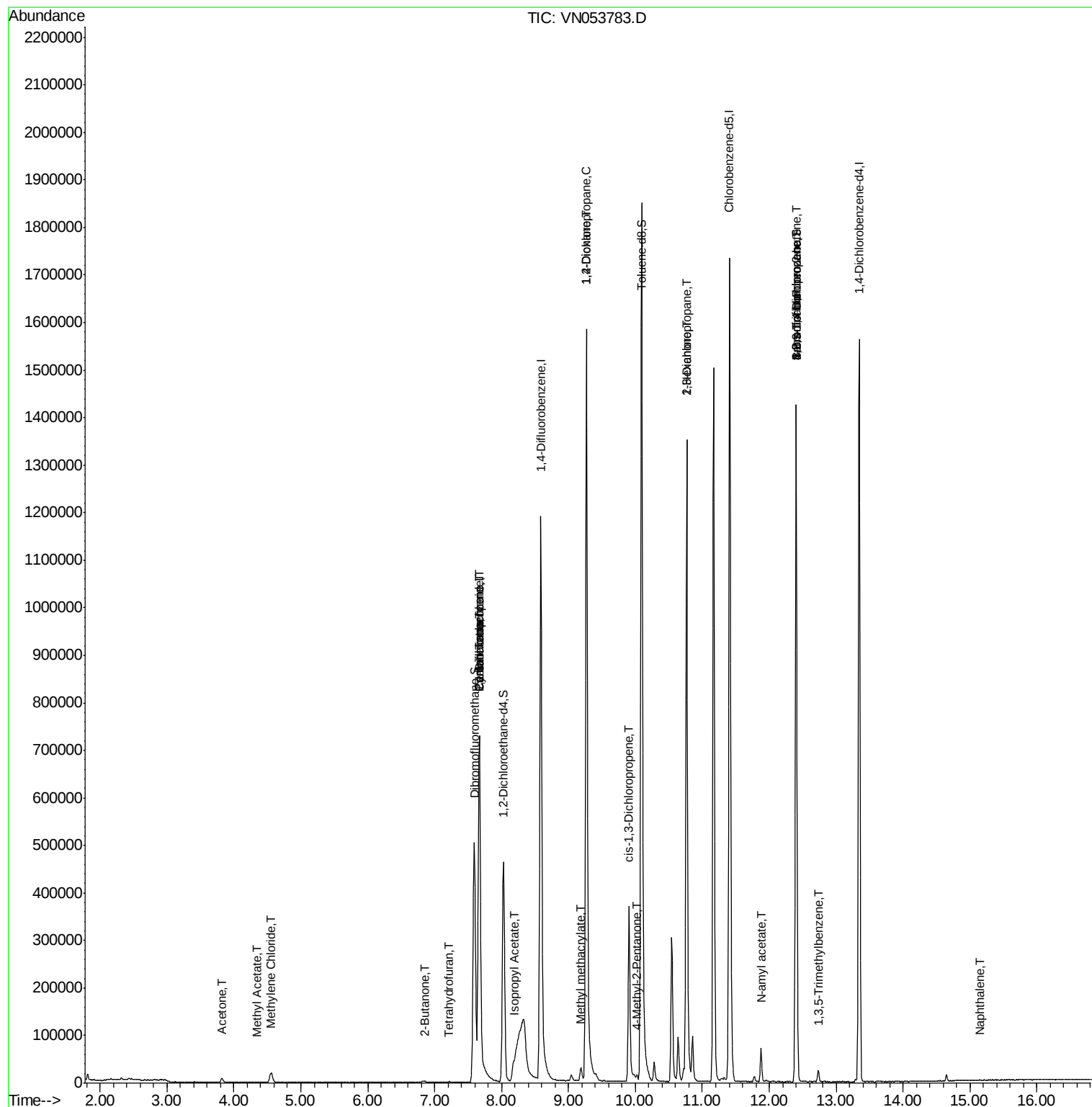
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	14468	7.521	ug/l	97
18) Methyl Acetate	4.34	43	2828	0.496	ug/l #	67
20) Methylene Chloride	4.56	84	16430	2.036	ug/l	97
25) 2-Butanone	6.85	43	2644	0.964	ug/l #	88
29) Tetrahydrofuran	7.21	42	752	0.427	ug/l #	78
31) Cyclohexane	7.66	56	10849	0.688	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	43366	3.833	ug/l #	48
38) Carbon Tetrachloride	7.67	117	57232	5.021	ug/l #	16
43) Isopropyl Acetate	8.18	43	42133	3.453	ug/l #	78
45) 1,2-Dichloropropane	9.27	63	2175	0.244	ug/l #	43
48) Methyl methacrylate	9.17	41	11137	1.912	ug/l #	12
49) 1,4-Dioxane	9.27	88	70	39.895	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	10164	1.695	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	79522	5.992	ug/l #	61
57) 1,3-Dichloropropane	10.76	76	14881	1.167	ug/l #	43
59) 2-Hexanone	10.77	43	197547	48.526	ug/l #	50
71) Bromoform	12.40	173	3031	0.510	ug/l #	1
74) N-amyl acetate	11.88	43	22088	2.861	ug/l #	50
76) 1,2,3-Trichloropropane	12.40	75	229820	39.184	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	13285	0.499	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.40	75	229820	110.181	ug/l #	15
95) Naphthalene	15.13	128	287	1.750	ug/l #	69

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 01 09:11:52 2019
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: VN053783.D

Acq: 14 Feb 2019 16:56

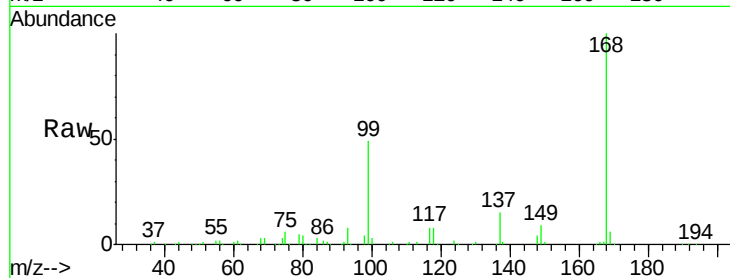
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 747600

Ion Ratio Lower Upper

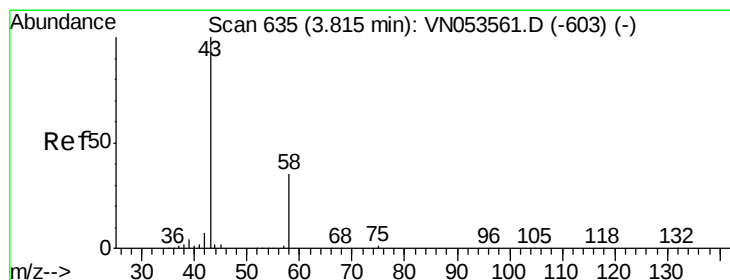
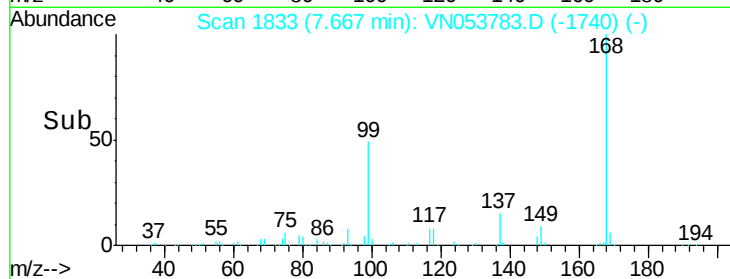
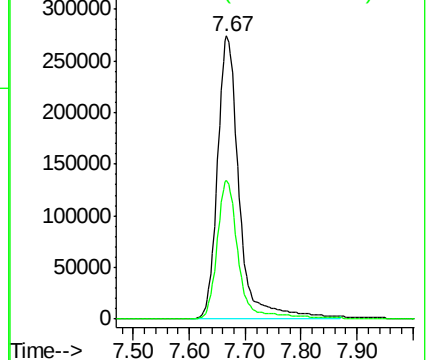
168 100

99 48.9 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#16

Acetone

Concen: 7.521 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN053783.D

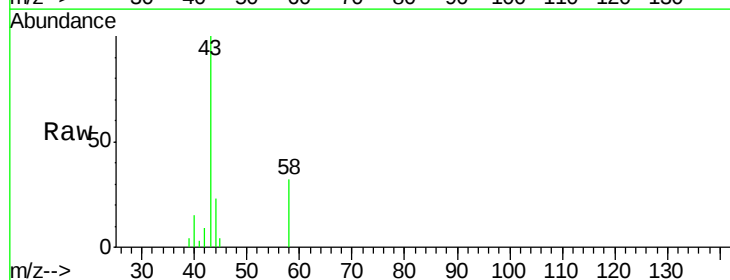
Acq: 14 Feb 2019 16:56

Tgt Ion: 43 Resp: 14468

Ion Ratio Lower Upper

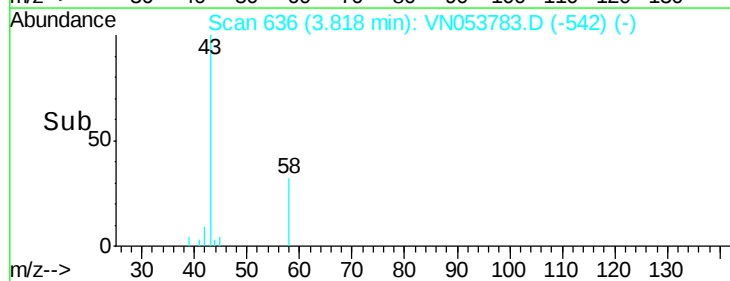
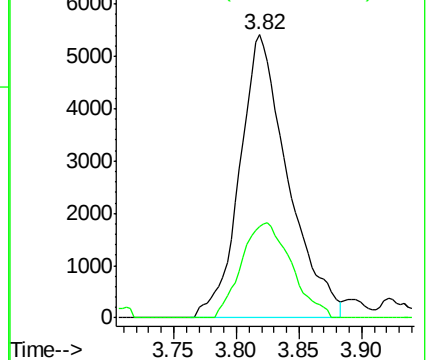
43 100

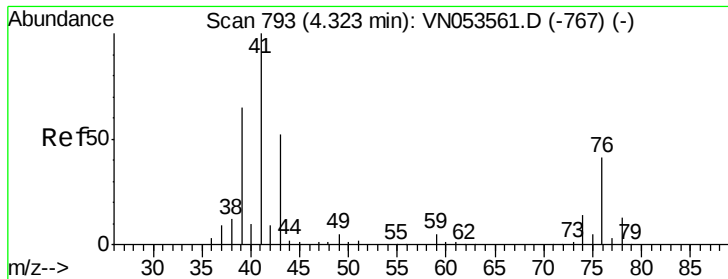
58 32.2 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

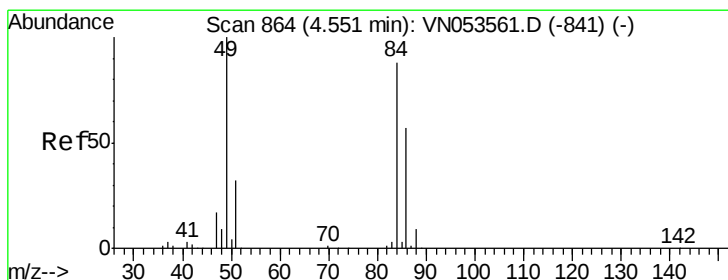
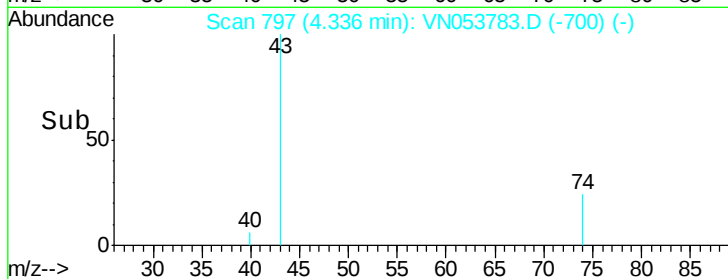
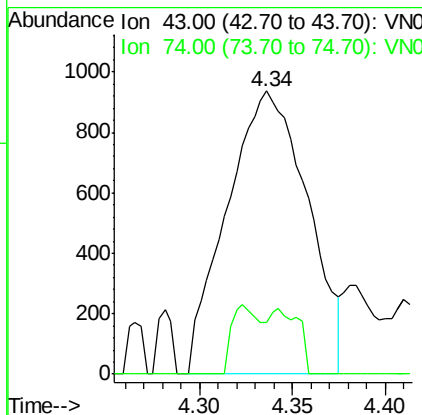
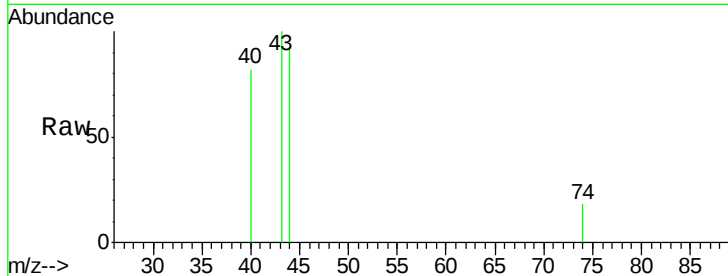




#18
Methyl Acetate
Concen: 0.496 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN053783.D
Acq: 14 Feb 2019 16:56

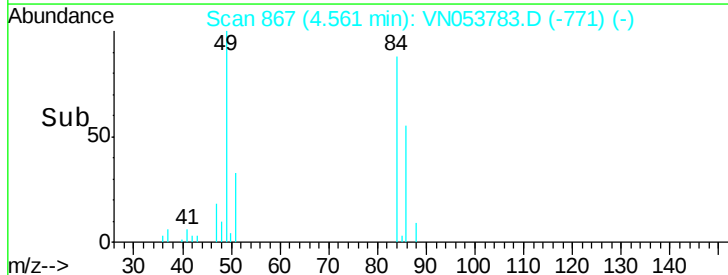
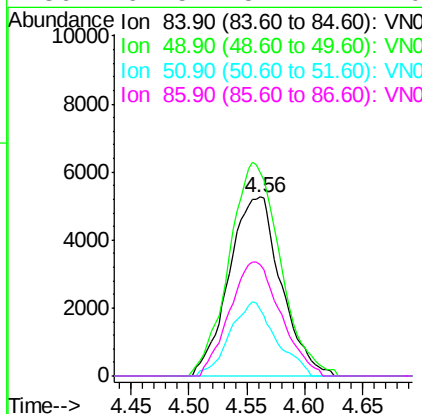
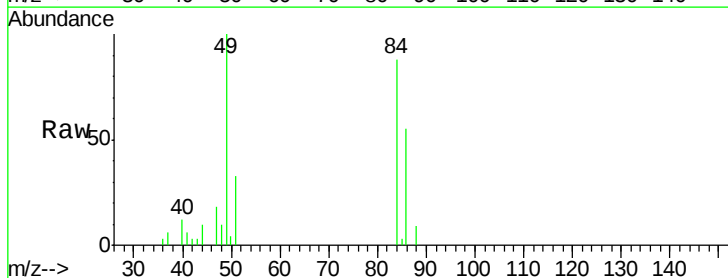
Instrument :
MSVOA_N
ClientSampled :

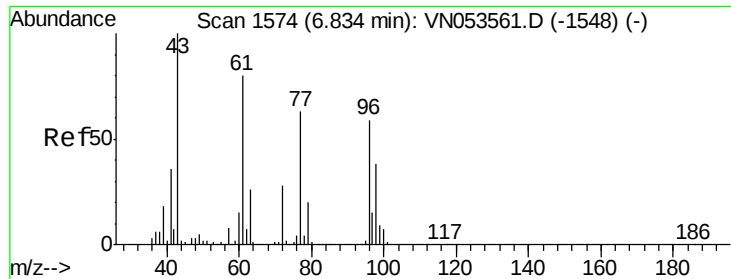
Tot Ion: 43 Resp: 2828
Ion Ratio Lower Upper
43 100
74 7.9 19.4 29.2#



#20
Methylene Chloride
Concen: 2.036 ug/l
RT: 4.56 min Scan# 867
Delta R.T. 0.01 min
Lab File: VN053783.D
Acq: 14 Feb 2019 16:56

Tgt Ion: 84 Resp: 16430
Ion Ratio Lower Upper
84 100
49 113.6 94.3 141.5
51 37.5 29.4 44.2
86 62.5 51.4 77.0

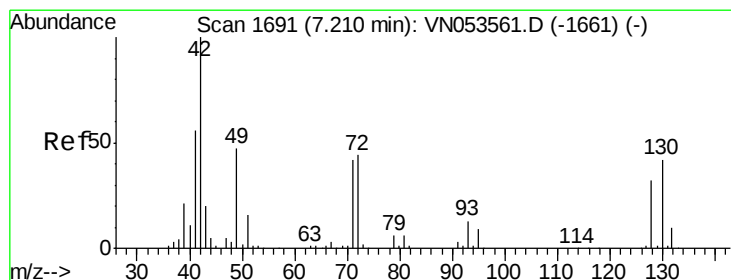
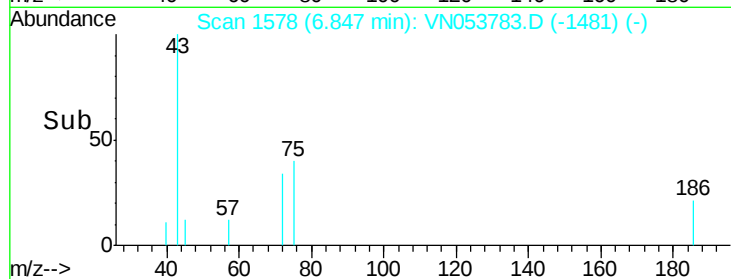
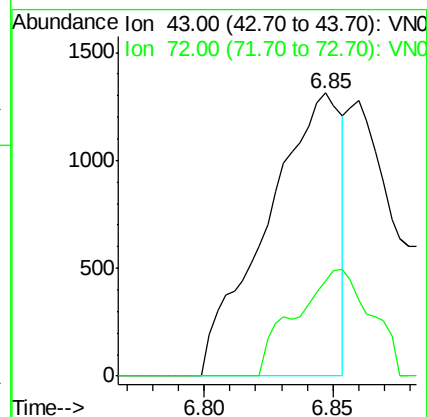
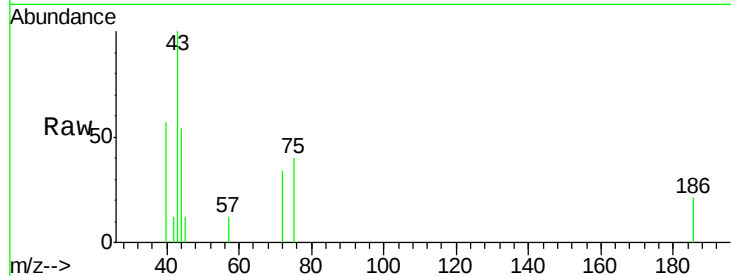




#25
2-Butanone
Concen: 0.964 ug/l
RT: 6.85 min Scan# 1578
Delta R.T. 0.01 min
Lab File: VN053783.D
Acq: 14 Feb 2019 16:56

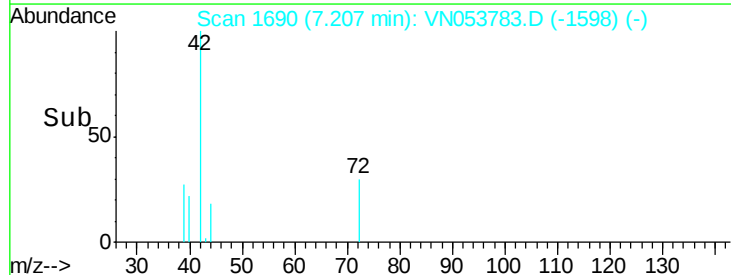
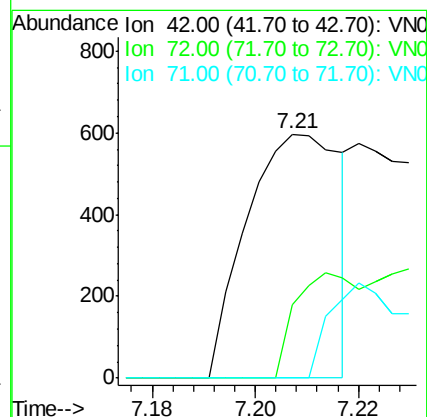
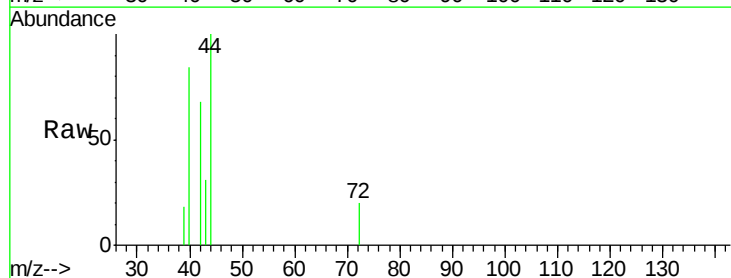
Instrument :
MSVOA_N
ClientSampled :

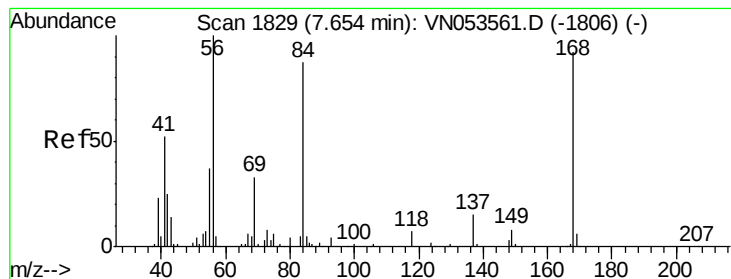
Tot Ion: 43 Resp: 2644
Ion Ratio Lower Upper
43 100
72 33.7 22.0 33.0#



#29
Tetrahydrofuran
Concen: 0.427 ug/l
RT: 7.21 min Scan# 1690
Delta R.T. -0.00 min
Lab File: VN053783.D
Acq: 14 Feb 2019 16:56

Tgt Ion: 42 Resp: 752
Ion Ratio Lower Upper
42 100
72 28.7 35.2 52.8#
71 28.2 33.0 49.4#





#31

Cyclohexane

Concen: 0.688 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN053783.D

Acq: 14 Feb 2019 16:56

Instrument :

MSVOA_N

ClientSampled :

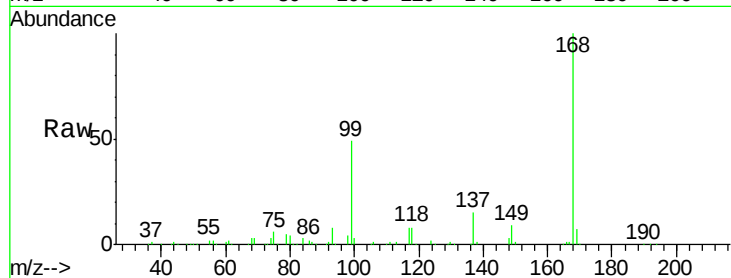
Tot Ion: 56 Resp: 10849

Ion Ratio Lower Upper

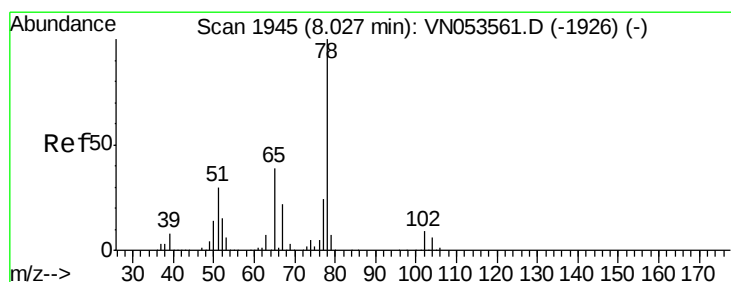
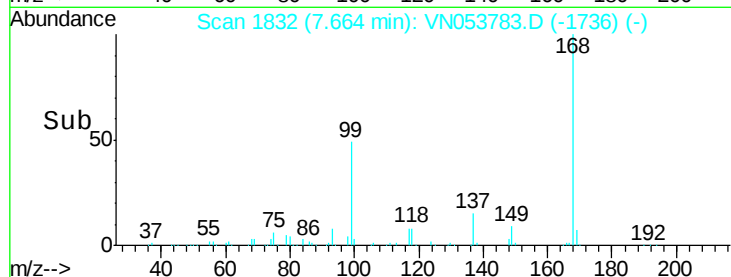
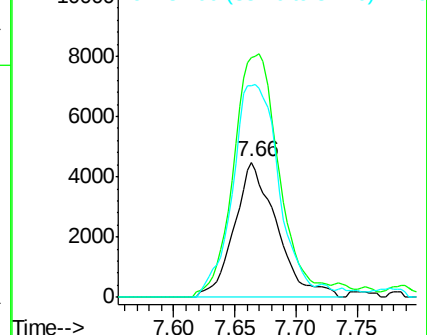
56 100

69 177.4 26.4 39.6#

84 156.1 67.9 101.9#



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



#33

1,2-Dichloroethane-d4

Concen: 53.053 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN053783.D

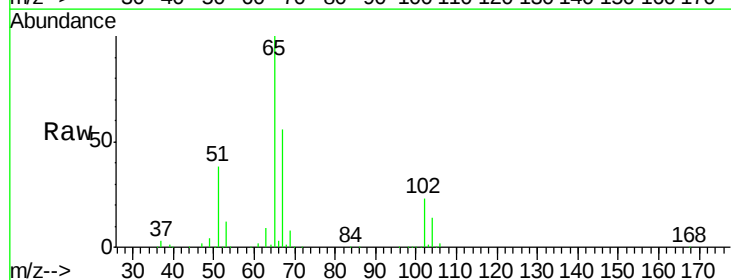
Acq: 14 Feb 2019 16:56

Tgt Ion: 65 Resp: 397889

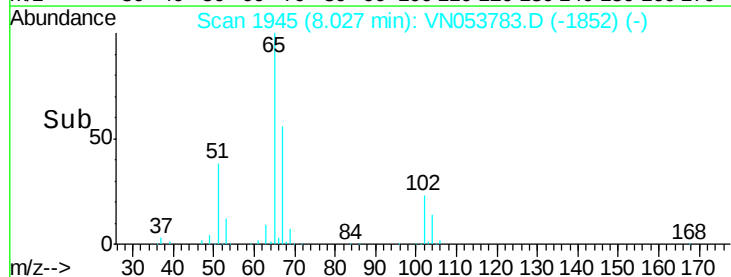
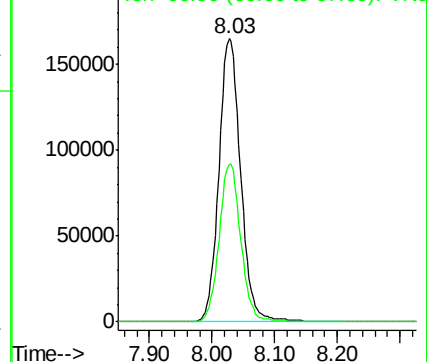
Ion Ratio Lower Upper

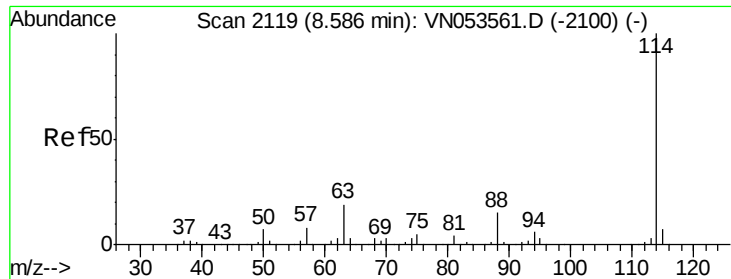
65 100

67 55.6 0.0 111.2



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

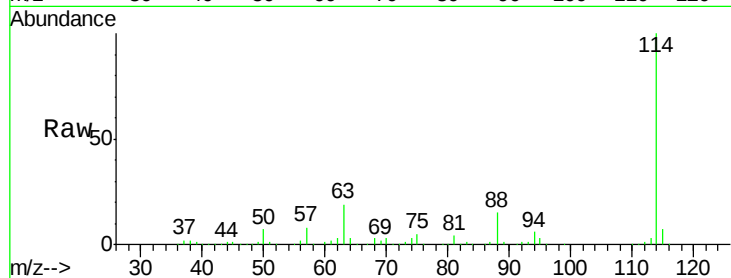




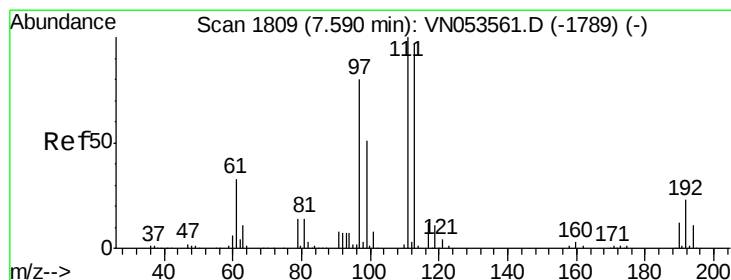
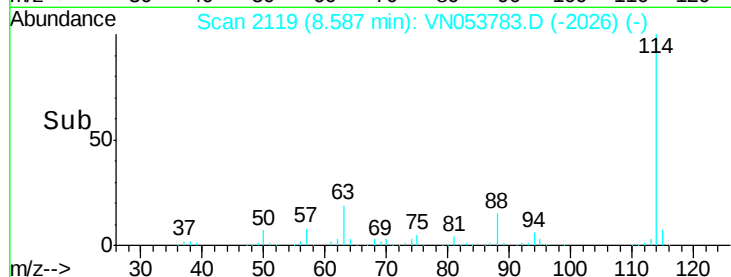
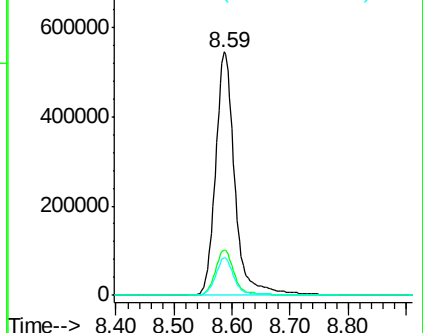
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053783.D
 Acq: 14 Feb 2019 16:56

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 1255093
 Ion Ratio Lower Upper
 114 100
 63 18.8 0.0 38.6
 88 15.5 0.0 30.4

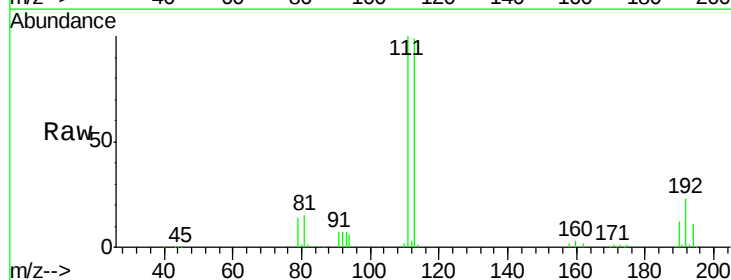


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

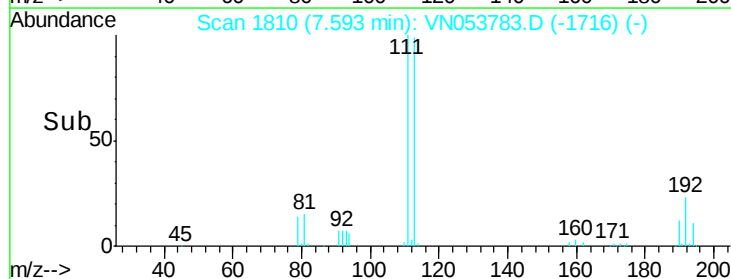
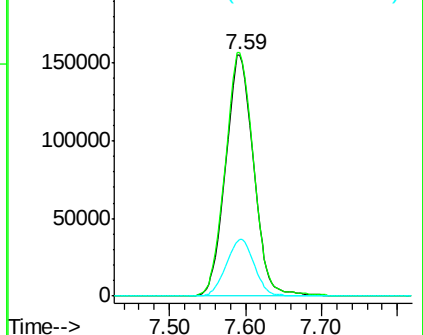


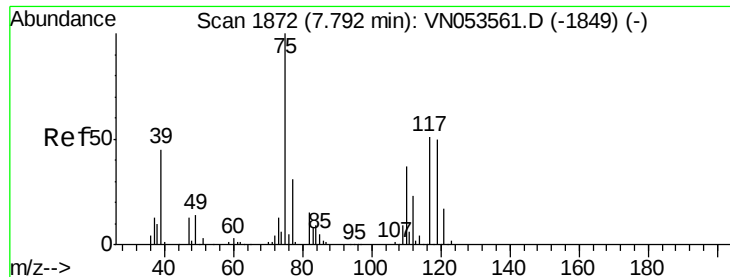
#35
 Dibromofluoromethane
 Concen: 50.327 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN053783.D
 Acq: 14 Feb 2019 16:56

Tgt Ion:113 Resp: 399118
 Ion Ratio Lower Upper
 113 100
 111 102.5 81.1 121.7
 192 23.4 18.2 27.2



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: 3.833 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN053783.D

Acq: 14 Feb 2019 16:56

Instrument :
MSVOA_N
ClientSampleId :

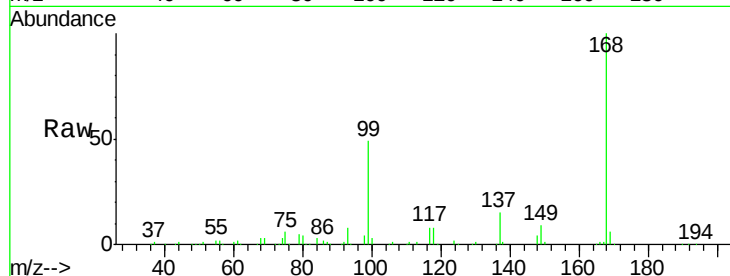
Tot Ion: 75 Resp: 43366

Ion Ratio Lower Upper

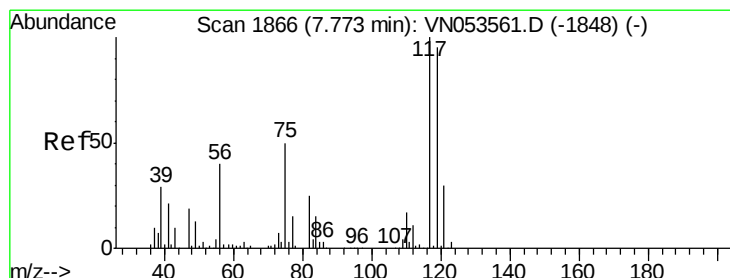
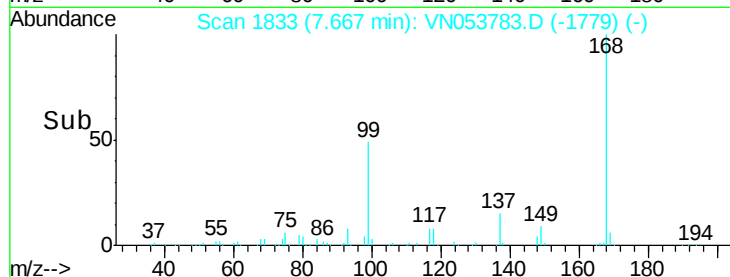
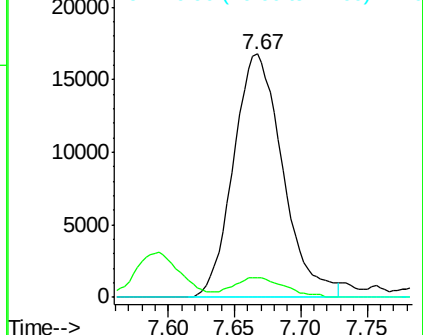
75 100

110 8.5 18.1 54.3#

77 0.0 25.1 37.7#



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VN0



#38

Carbon Tetrachloride

Concen: 5.021 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN053783.D

Acq: 14 Feb 2019 16:56

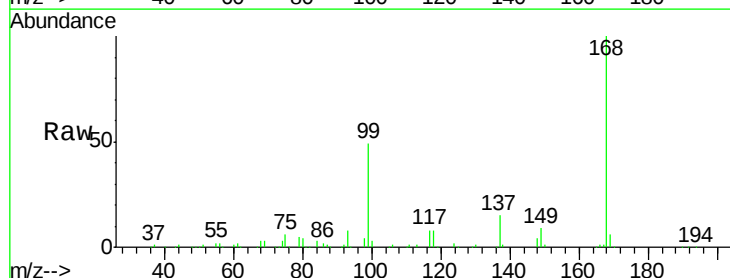
Tgt Ion: 117 Resp: 57232

Ion Ratio Lower Upper

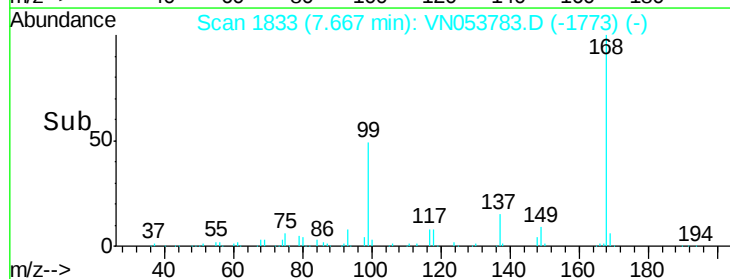
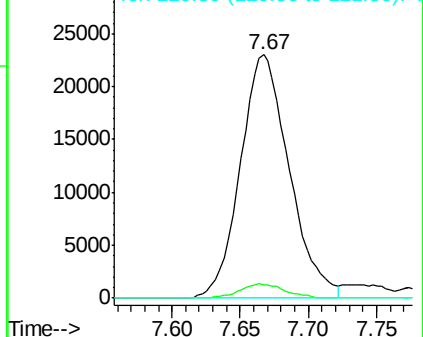
117 100

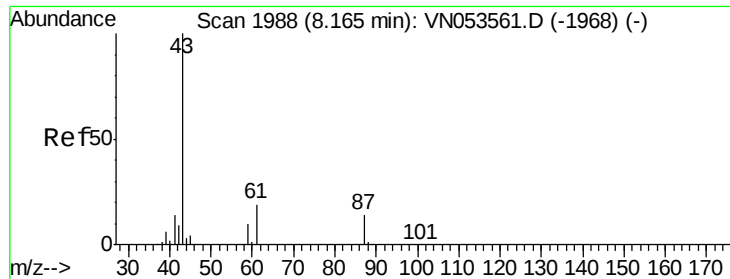
119 5.7 77.2 115.8#

121 0.0 24.6 37.0#



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: 3.453 ug/l

RT: 8.18 min Scan# 1993

Delta R.T. 0.02 min

Lab File: VN053783.D

Acq: 14 Feb 2019 16:56

Instrument :

MSVOA_N

ClientSampleId :

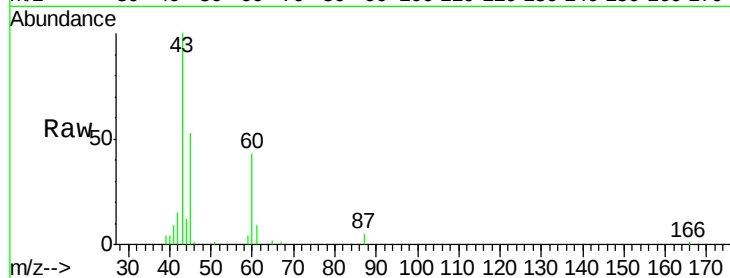
Tot Ion: 43 Resp: 42133

Ion Ratio Lower Upper

43 100

61 15.4 23.9 35.9#

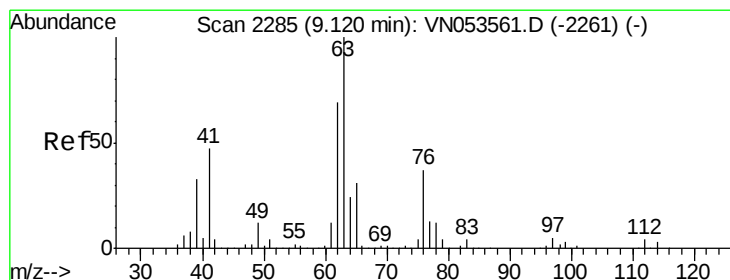
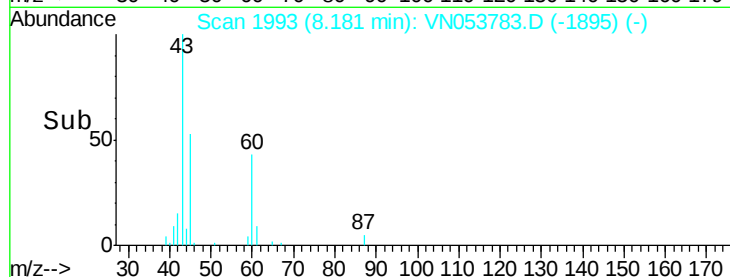
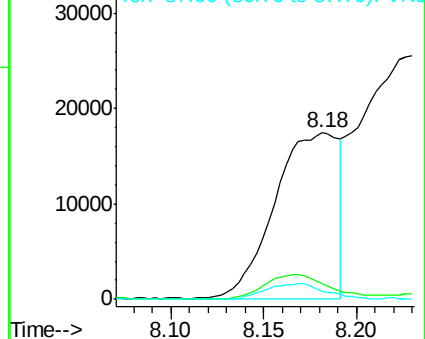
87 8.7 11.0 16.6#



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



#45

1,2-Dichloropropane

Concen: 0.244 ug/l

RT: 9.27 min Scan# 2332

Delta R.T. 0.15 min

Lab File: VN053783.D

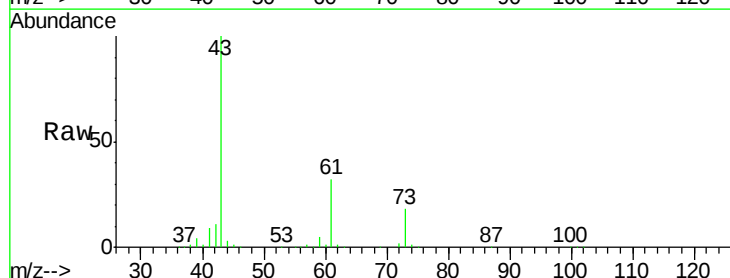
Acq: 14 Feb 2019 16:56

Tgt Ion: 63 Resp: 2175

Ion Ratio Lower Upper

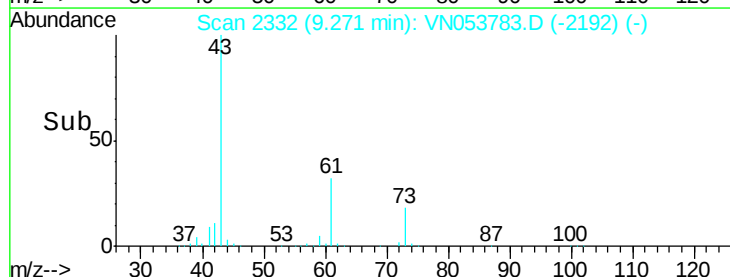
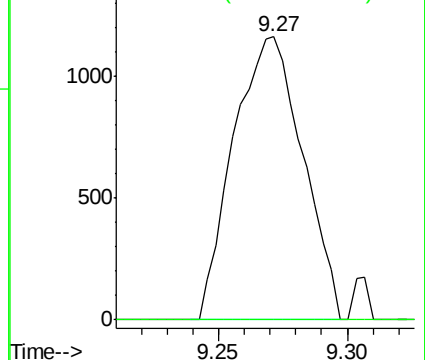
63 100

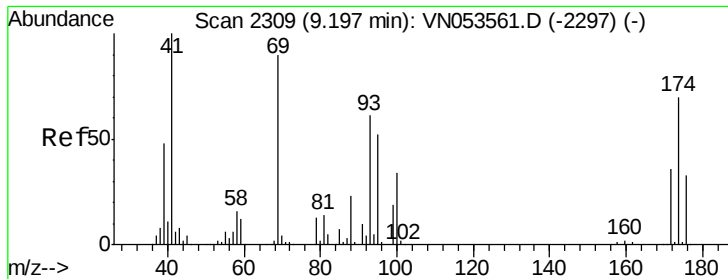
65 0.0 25.0 37.4#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

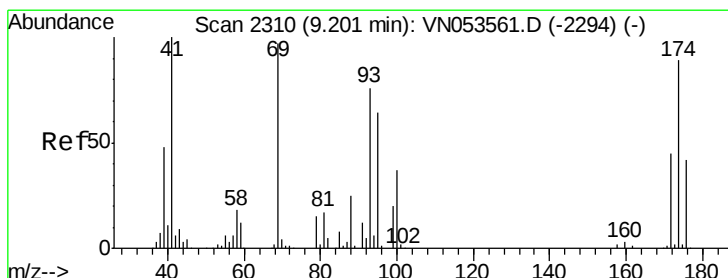
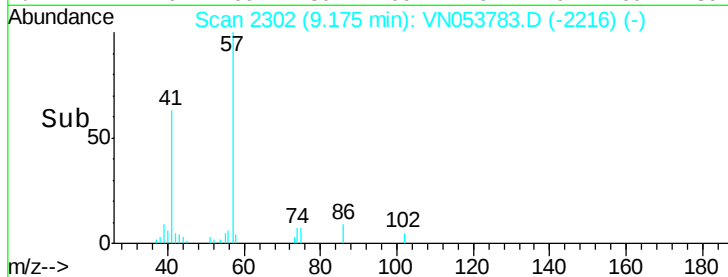
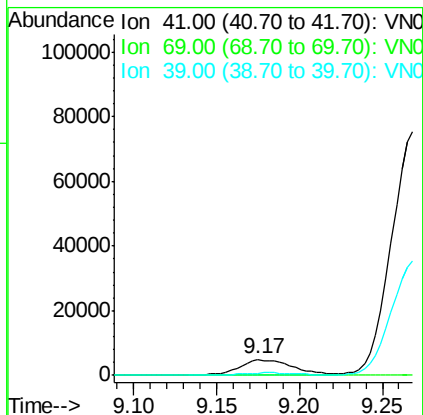
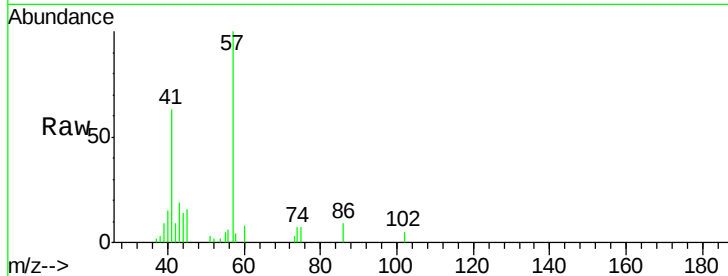




#48
Methvl methacrylate
Concen: 1.912 ug/l
RT: 9.17 min Scan# 2302
Delta R.T. -0.02 min
Lab File: VN053783.D
Acq: 14 Feb 2019 16:56

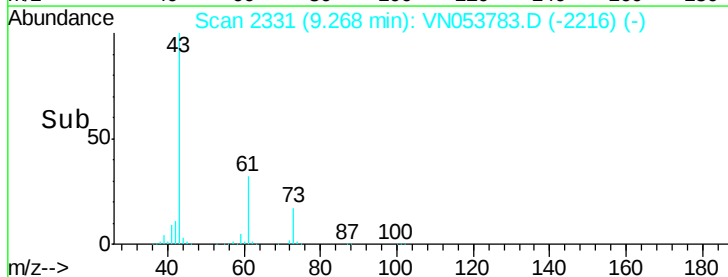
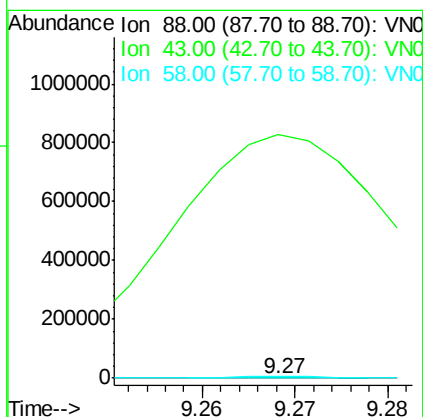
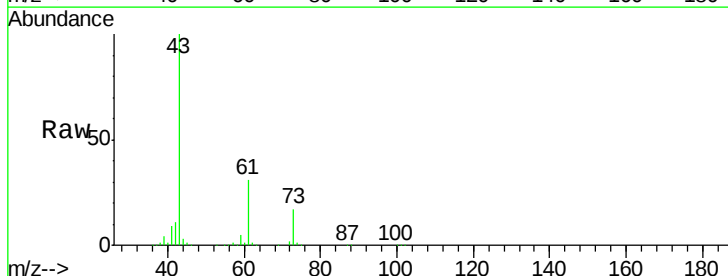
Instrument :
MSVOA_N
ClientSampleId :

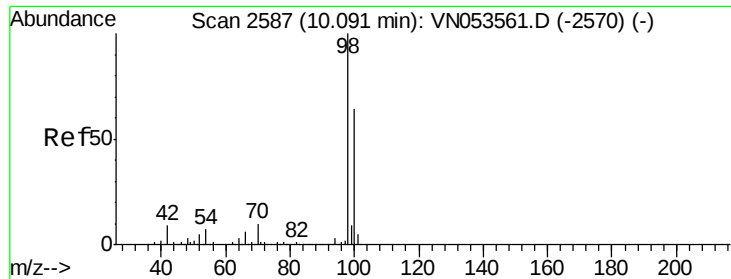
Tot Ion: 41 Resp: 11137
Ion Ratio Lower Upper
41 100
69 0.0 73.8 110.6#
39 0.0 40.0 60.0#



#49
1,4-Dioxane
Concen: 39.895 ug/l
RT: 9.27 min Scan# 2331
Delta R.T. 0.07 min
Lab File: VN053783.D
Acq: 14 Feb 2019 16:56

Tgt Ion: 88 Resp: 70
Ion Ratio Lower Upper
88 100
43 2416428.6 27.8 41.6#
58 12027.1 56.5 84.7#





#50

Toluene-d8

Concen: 51.187 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053783.D

Acq: 14 Feb 2019 16:56

Instrument :

MSVOA_N

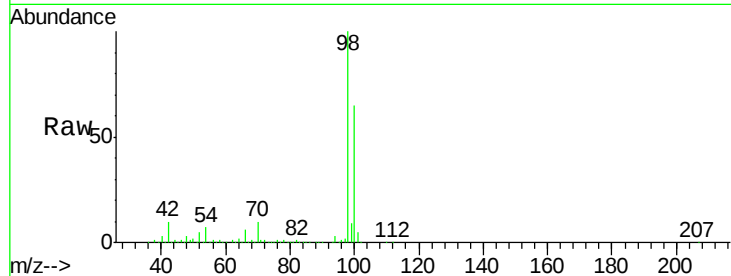
ClientSampleId :

Tot Ion: 98 Resp: 1524222

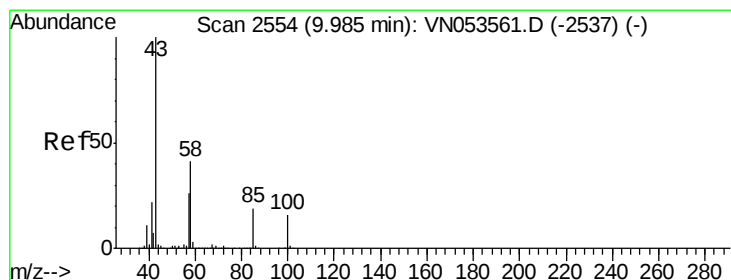
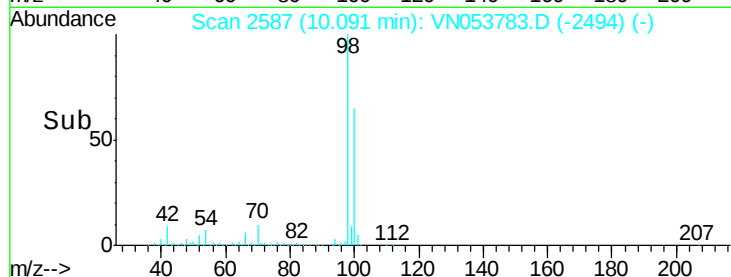
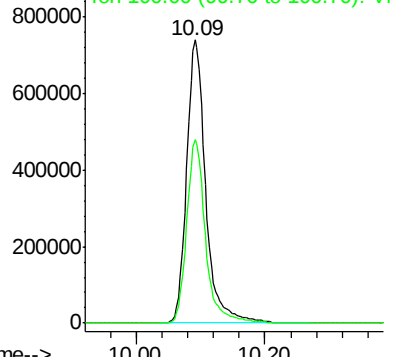
Ion Ratio Lower Upper

98 100

100 64.2 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VN053561.D (-2570) (-)



#51

4-Methyl-2-Pentanone

Concen: 1.695 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN053783.D

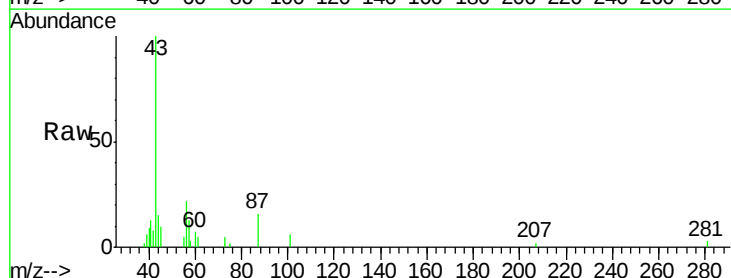
Acq: 14 Feb 2019 16:56

Tgt Ion: 43 Resp: 10164

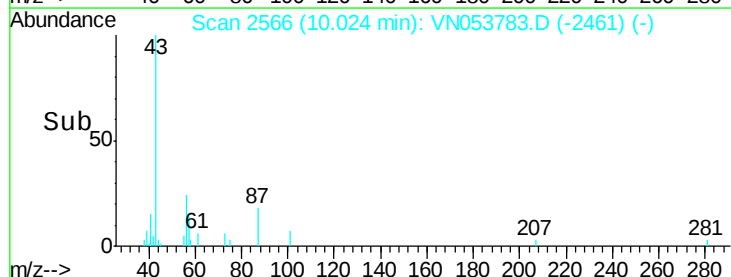
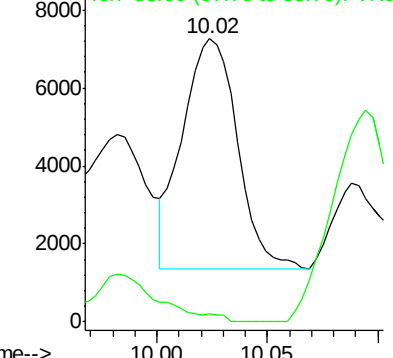
Ion Ratio Lower Upper

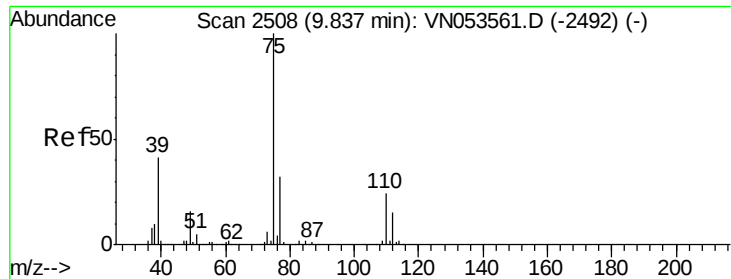
43 100

58 0.0 32.8 49.2#



Abundance Ion 43.00 (42.70 to 43.70): VN053561.D (-2537) (-)

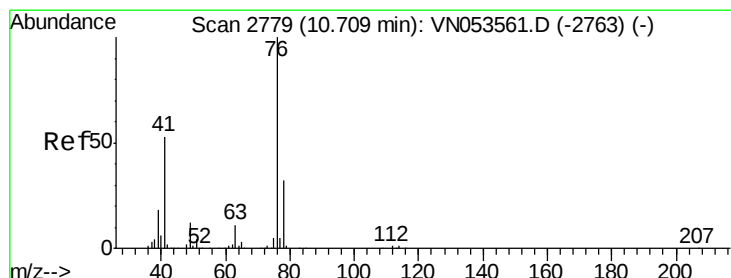
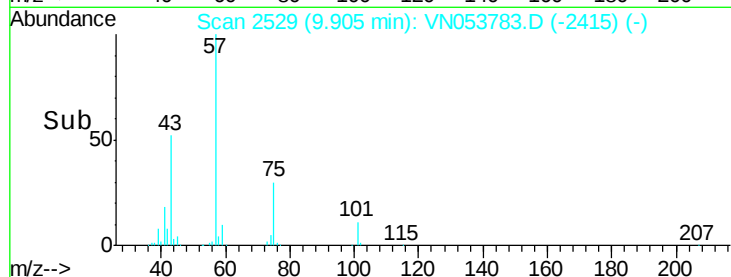
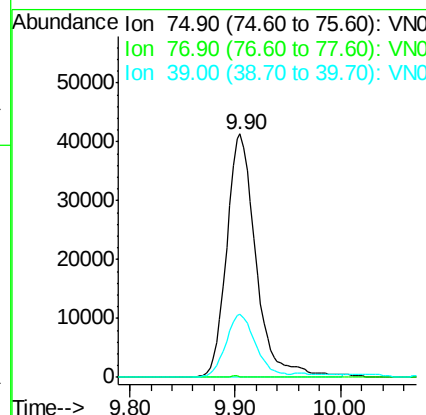
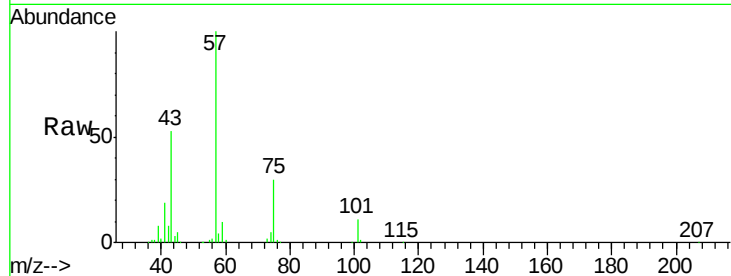




#54
 cis-1,3-Dichloropropene
 Concen: 5.992 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. 0.07 min
 Lab File: VN053783.D
 Acq: 14 Feb 2019 16:56

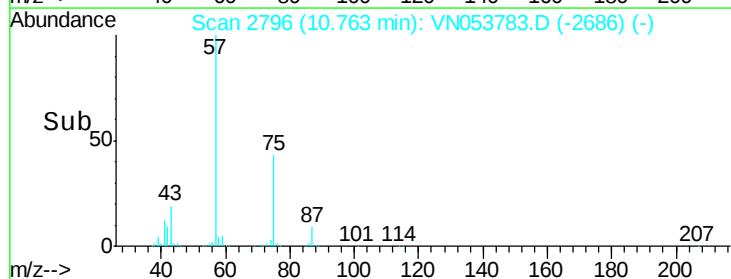
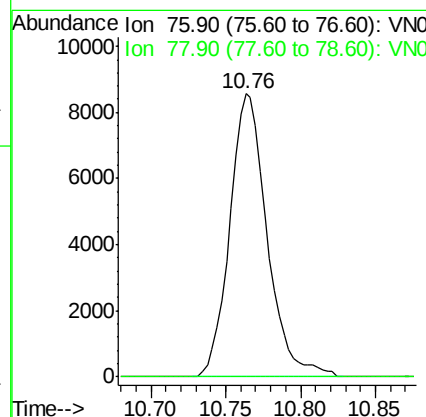
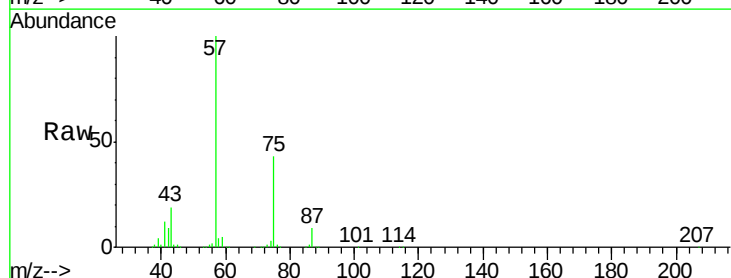
Instrument :
 MSVOA_N
 ClientSampled :

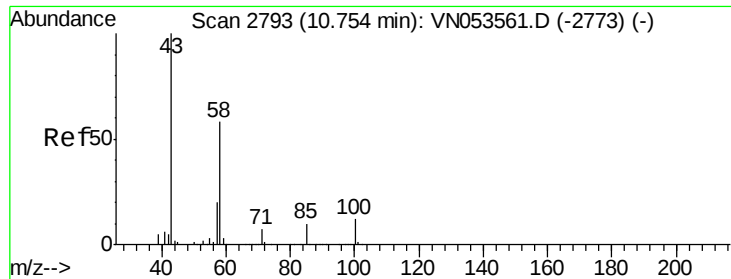
Tot Ion: 75 Resp: 79522
 Ion Ratio Lower Upper
 75 100
 77 0.4 25.8 38.6#
 39 25.9 33.4 50.0#



#57
 1,3-Dichloropropane
 Concen: 1.167 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.05 min
 Lab File: VN053783.D
 Acq: 14 Feb 2019 16:56

Tgt Ion: 76 Resp: 14881
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#

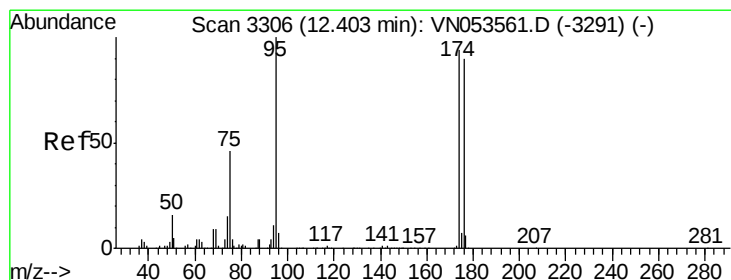
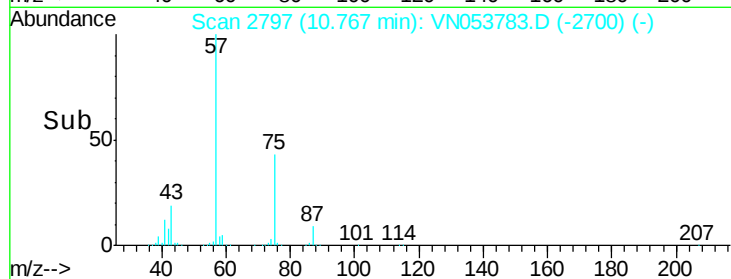
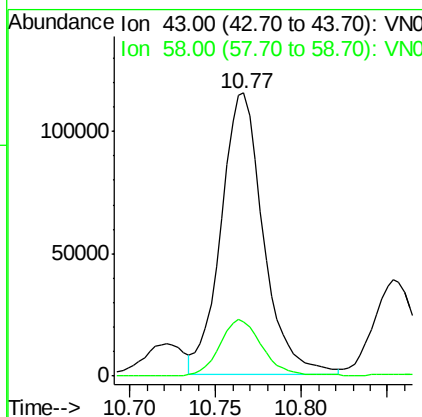
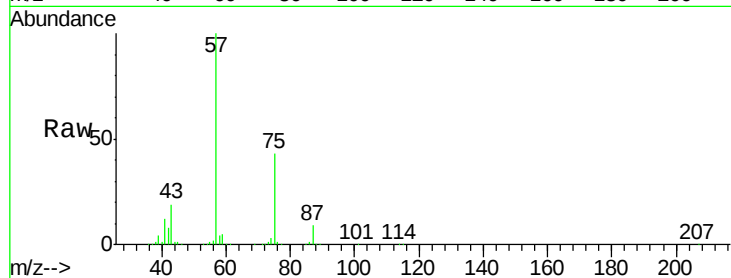




#59
2-Hexanone
Concen: 48.526 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN053783.D
Acq: 14 Feb 2019 16:56

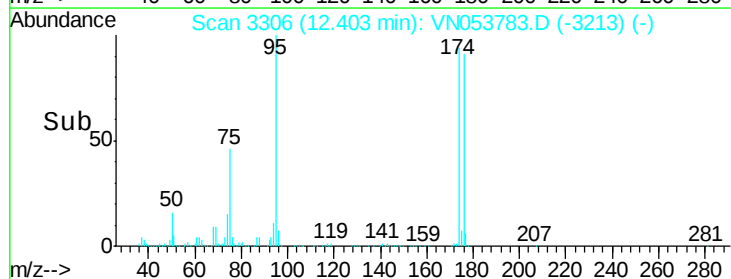
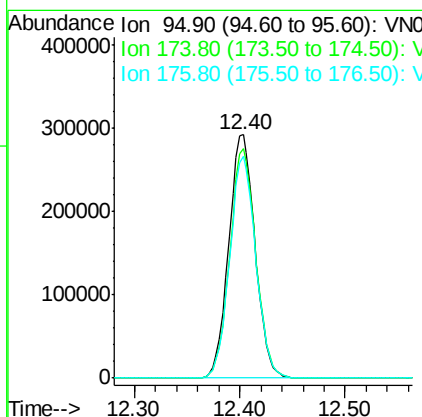
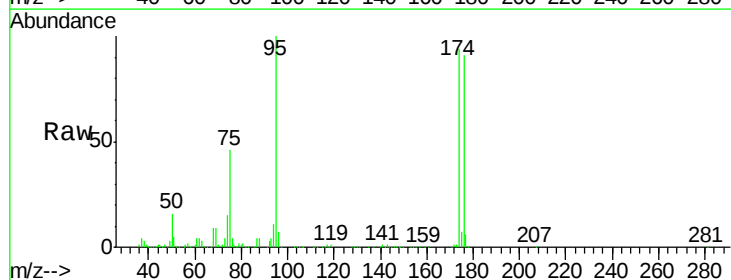
Instrument :
MSVOA_N
ClientSampled :

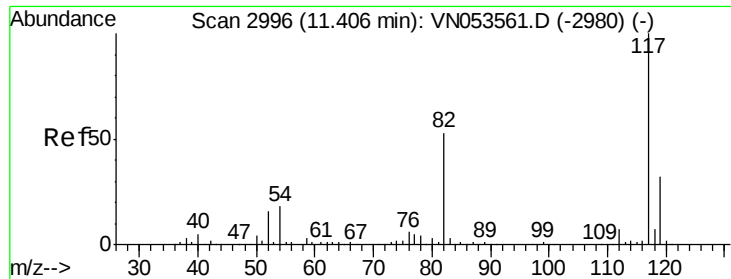
Tot Ion: 43 Resp: 197547
Ion Ratio Lower Upper
43 100
58 20.5 28.6 85.8#



#62
4-Bromofluorobenzene
Concen: 50.598 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN053783.D
Acq: 14 Feb 2019 16:56

Tgt Ion: 95 Resp: 502503
Ion Ratio Lower Upper
95 100
174 93.4 0.0 183.2
176 90.2 0.0 177.4

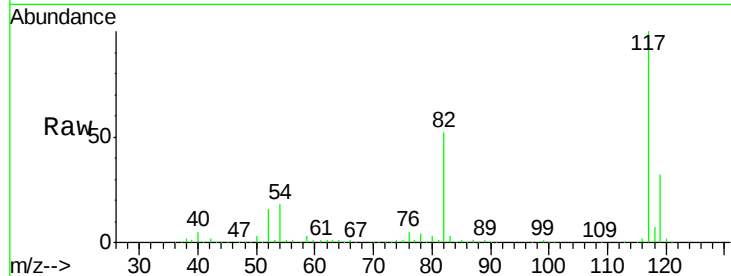




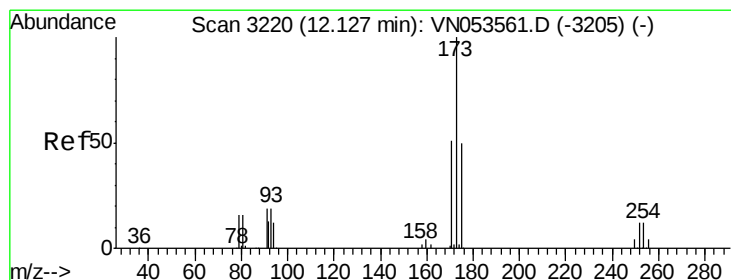
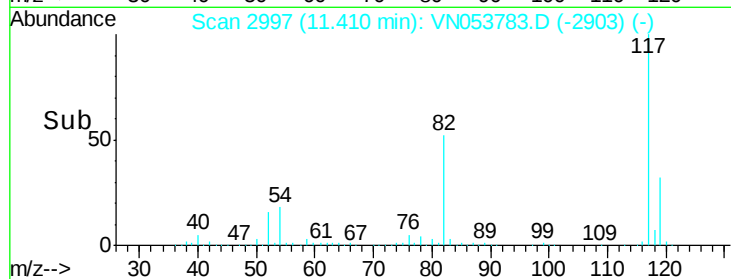
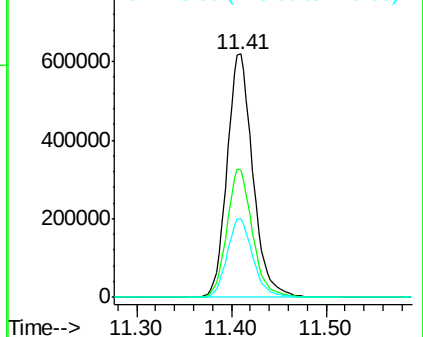
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN053783.D
Acq: 14 Feb 2019 16:56

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 1169342
Ion Ratio Lower Upper
117 100
82 52.1 42.9 64.3
119 32.2 26.0 39.0

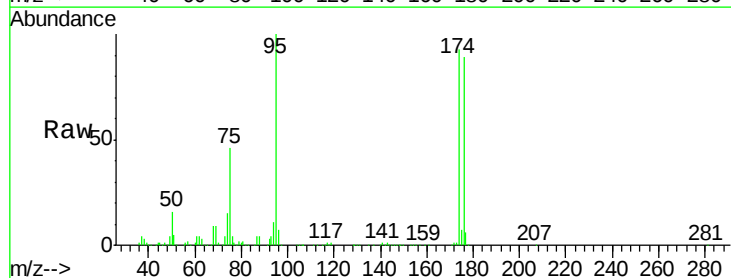


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

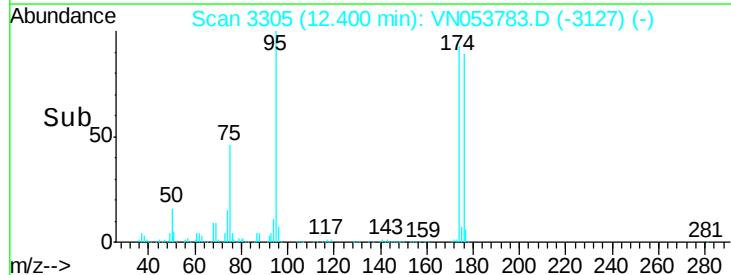
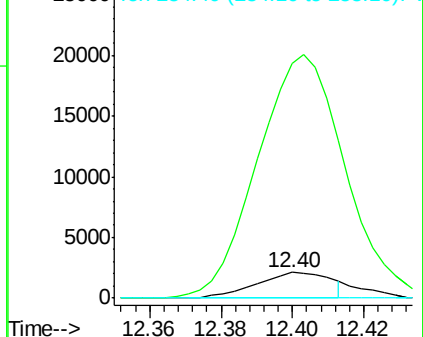


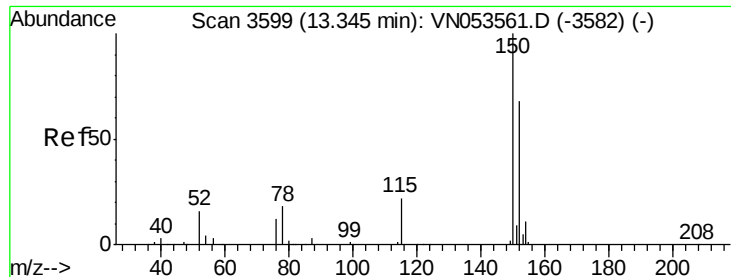
#71
Bromoform
Concen: 0.510 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN053783.D
Acq: 14 Feb 2019 16:56

Tgt Ion:173 Resp: 3031
Ion Ratio Lower Upper
173 100
175 956.0 24.6 74.0#
254 0.0 0.2 0.2#



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: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN053783.D

Acq: 14 Feb 2019 16:56

Instrument :

MSVOA_N

ClientSampleId :

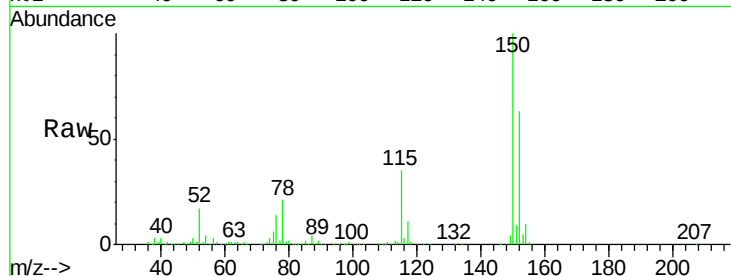
Tot Ion:152 Resp: 456636

Ion Ratio Lower Upper

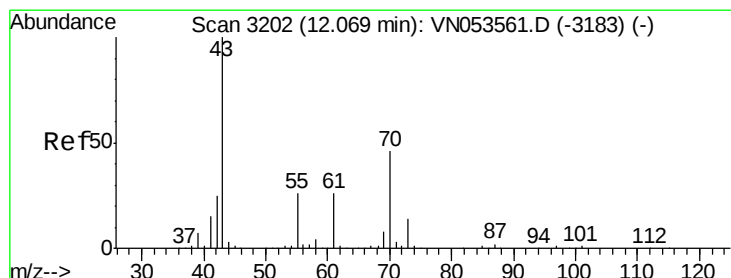
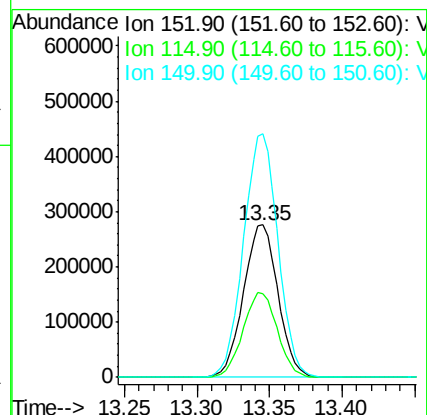
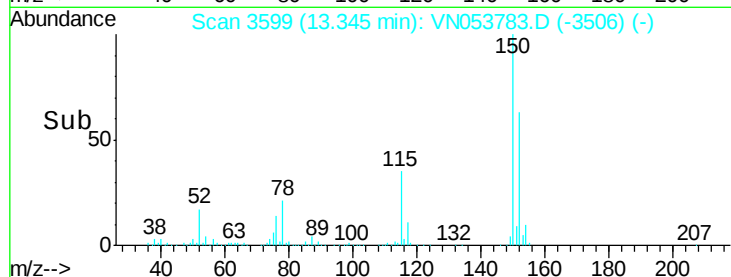
152 100

115 55.5 27.8 83.4

150 159.2 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



#74

N-ethyl acetate

Concen: 2.861 ug/l

RT: 11.88 min Scan# 3143

Delta R.T. -0.19 min

Lab File: VN053783.D

Acq: 14 Feb 2019 16:56

Tgt Ion: 43 Resp: 22088

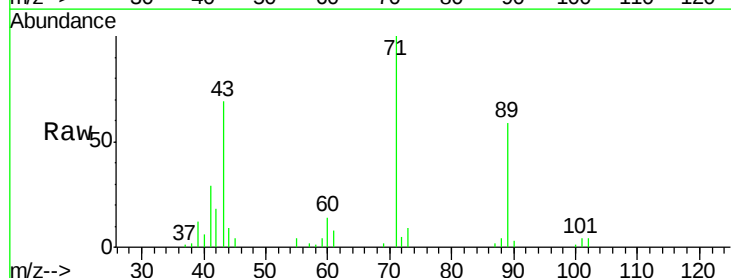
Ion Ratio Lower Upper

43 100

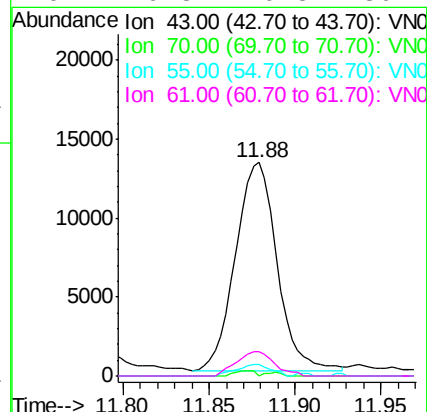
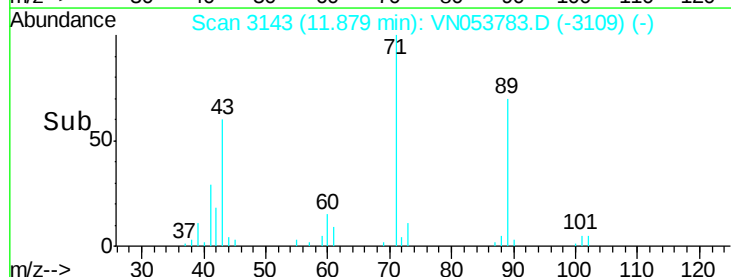
70 1.1 35.4 53.2#

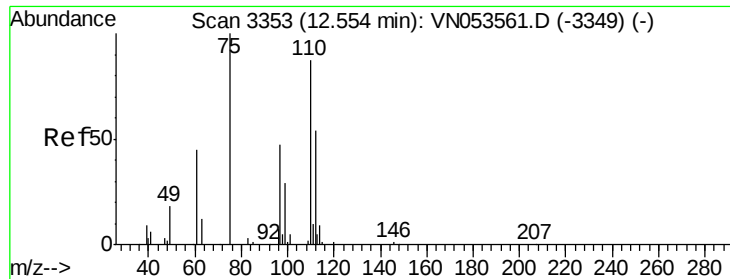
55 4.6 20.9 31.3#

61 10.8 20.5 30.7#



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 70.00 (69.70 to 70.70): V
Ion 55.00 (54.70 to 55.70): V
Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 39.184 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN053783.D

Acq: 14 Feb 2019 16:56

Instrument :

MSVOA_N

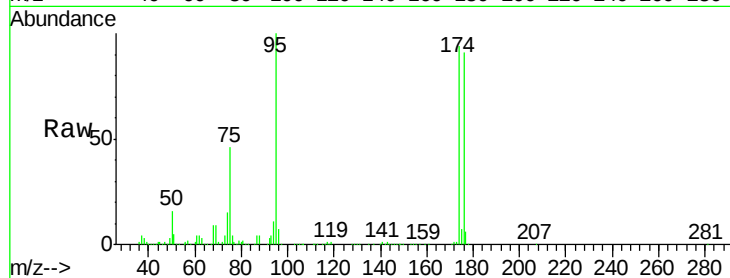
ClientSampleId :

Tot Ion: 75 Resp: 229820

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN053561.D (-3349) (-)

Ion 77.00 (76.70 to 77.70): VN053561.D (-3349) (-)

12.40

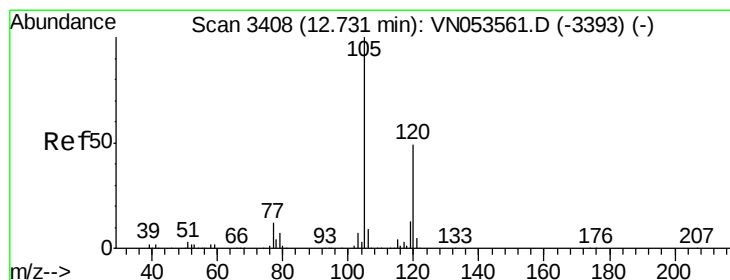
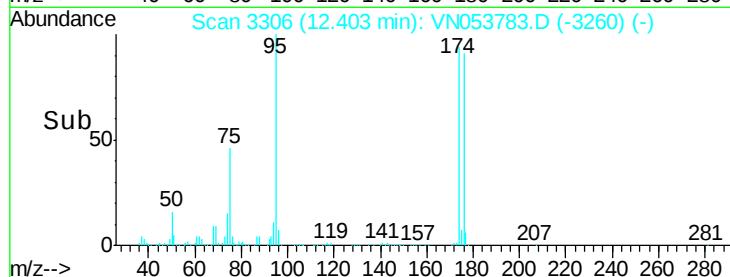
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#80

1,3,5-Trimethylbenzene

Concen: 0.499 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN053783.D

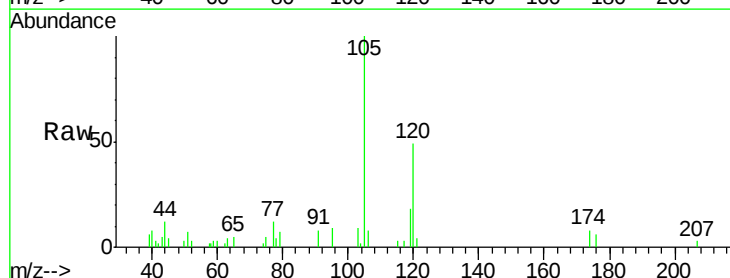
Acq: 14 Feb 2019 16:56

Tgt Ion: 105 Resp: 13285

Ion Ratio Lower Upper

105 100

120 46.5 24.9 74.6



Abundance Ion 105.00 (104.70 to 105.70): VN053561.D (-3393) (-)

Ion 120.00 (119.70 to 120.70): VN053561.D (-3393) (-)

12.73

8000

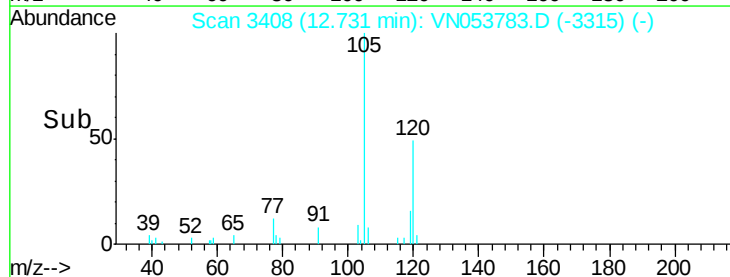
6000

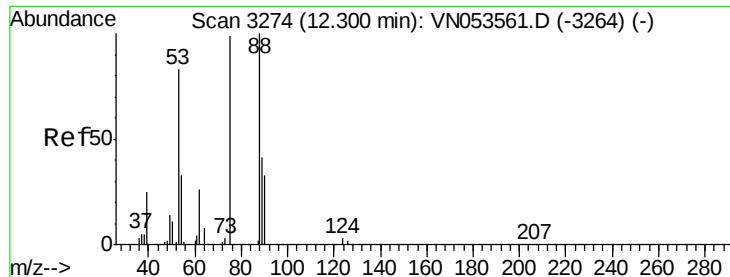
4000

2000

0

Time--> 12.70 12.75





#81

trans-1,4-Dichloro-2-butene

Concen: 110.181 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN053783.D

Acq: 14 Feb 2019 16:56

Instrument :

MSVOA_N

ClientSampleId :

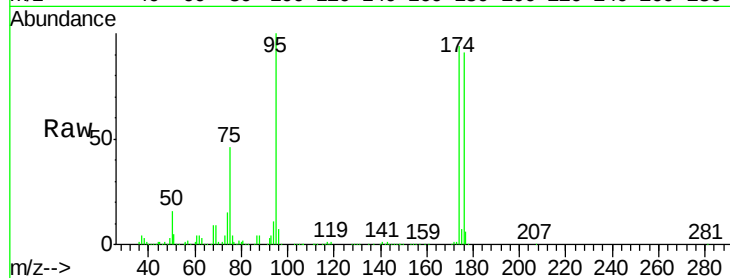
Tot Ion: 75 Resp: 229820

Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.6#

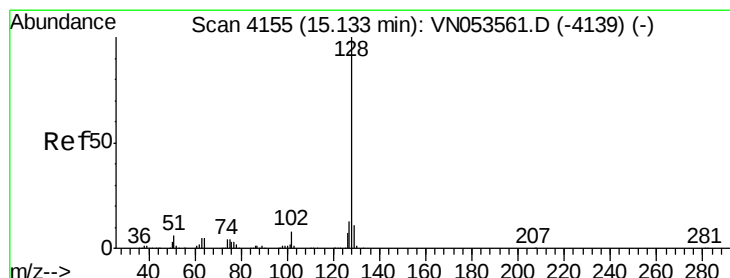
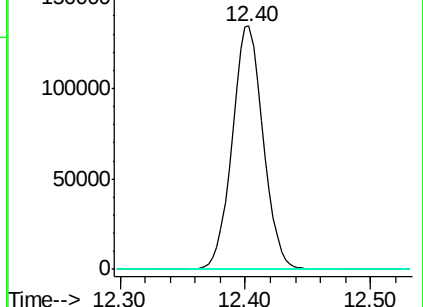
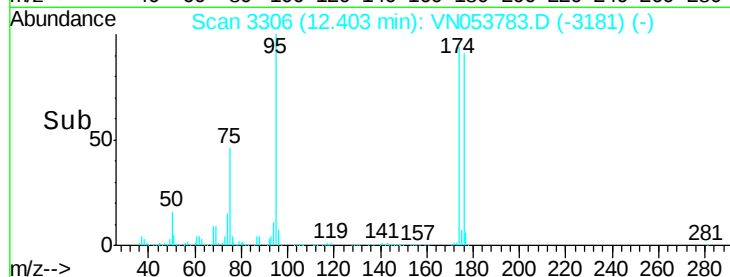
89 0.0 35.6 53.4#



Abundance Ion 74.90 (74.60 to 75.60): VN053783.D (-3181) (-)

Ion 53.00 (52.70 to 53.70): VN053783.D (-3181) (-)

Ion 88.90 (88.60 to 89.60): VN053783.D (-3181) (-)



#95

Naphthalene

Concen: 1.750 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN053783.D

Acq: 14 Feb 2019 16:56

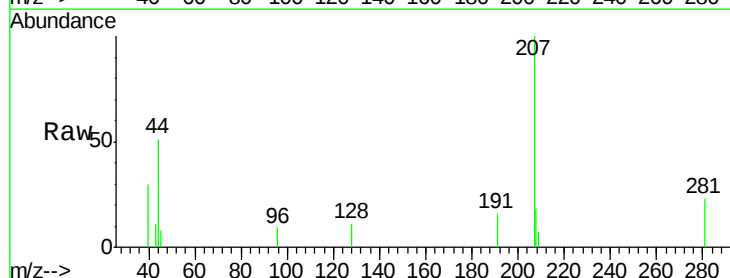
Tgt Ion: 128 Resp: 287

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): VN053783.D (-4061) (-)

Ion 127.00 (126.70 to 127.70): VN053783.D (-4061) (-)

Ion 129.00 (128.70 to 129.70): VN053783.D (-4061) (-)

