

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN012819\
 Data File : VN053552.D
 Acq On : 28 Jan 2019 18:09
 Operator : JC/SP
 Sample : PB116640ZHE#08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 29 08:22:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011519W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 03:10:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	847040	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1373265	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1247495	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	544044	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	437125	52.21	ug/l	0.00
Spiked Amount			Recovery	=	104.42%	
35) Dibromofluoromethane	7.59	113	425989	54.35	ug/l	0.00
Spiked Amount			Recovery	=	108.70%	
50) Toluene-d8	10.09	98	1655710	49.95	ug/l	0.00
Spiked Amount			Recovery	=	99.90%	
62) 4-Bromofluorobenzene	12.40	95	561880	48.34	ug/l	0.00
Spiked Amount			Recovery	=	96.68%	

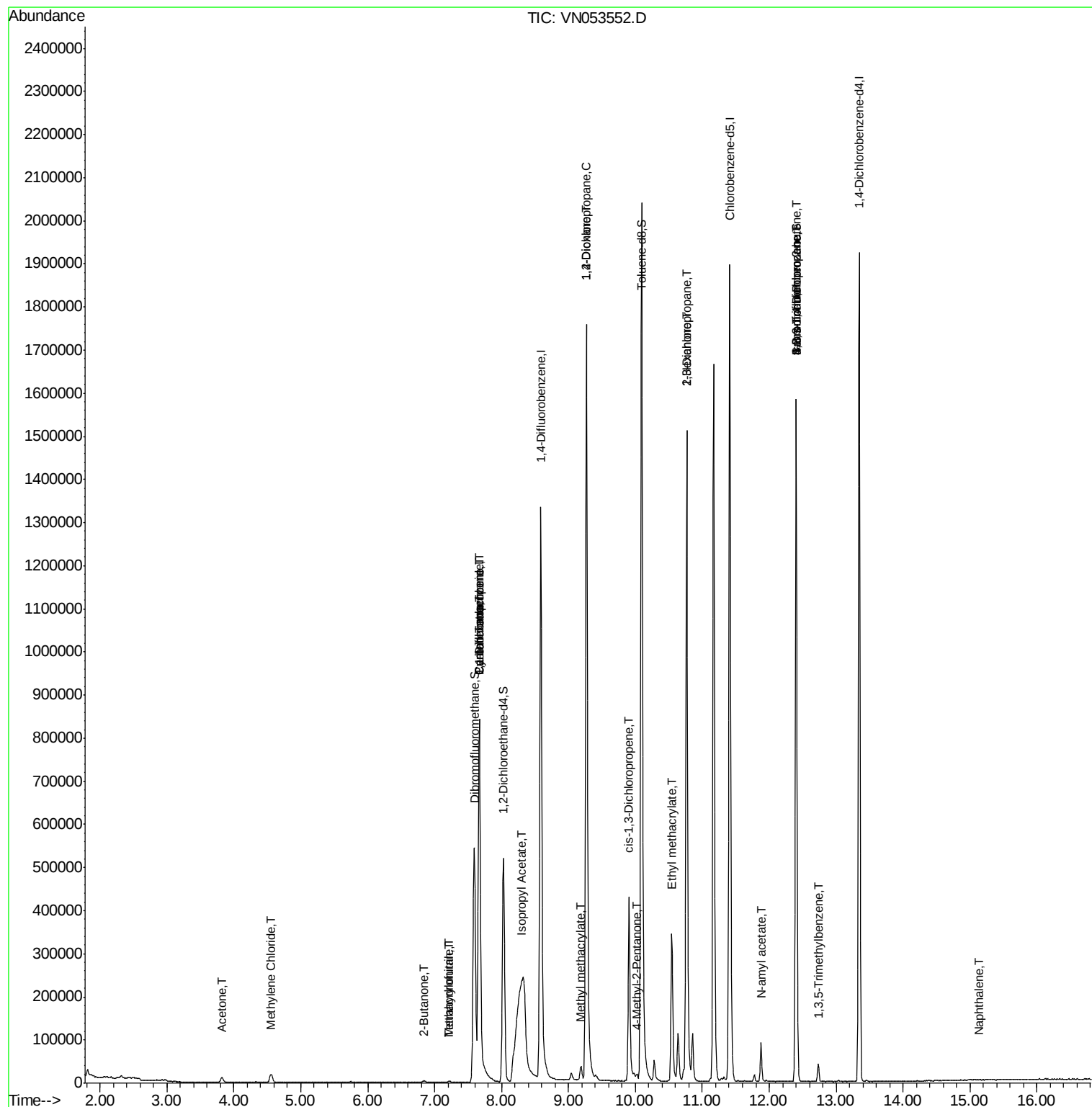
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	21712	11.054	ug/l	96
20) Methylene Chloride	4.55	84	14942	1.666	ug/l	96
25) 2-Butanone	6.84	43	3425	1.132	ug/l	96
29) Tetrahydrofuran	7.21	42	907	0.460	ug/l #	56
31) Cyclohexane	7.66	56	12093	0.601	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	50985	4.077	ug/l #	48
38) Carbon Tetrachloride	7.67	117	70371	5.943	ug/l #	16
41) Methacrylonitrile	7.21	41	1027	0.904	ug/l #	33
43) Isopropyl Acetate	8.30	43	478870	37.012	ug/l #	51
45) 1,2-Dichloropropane	9.27	63	2243	0.223	ug/l #	43
48) Methyl methacrylate	9.18	41	13093	1.960	ug/l #	12
49) 1,4-Dioxane	9.27	88	190	2.912	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	10832	1.534	ug/l #	34
54) cis-1,3-Dichloropropene	9.91	75	91397	6.324	ug/l #	60
56) Ethyl methacrylate	10.54	69	1307	2.166	ug/l #	1
57) 1,3-Dichloropropane	10.77	76	18057	1.283	ug/l #	43
59) 2-Hexanone	10.77	43	232946	46.984	ug/l #	50
71) Bromoform	12.40	173	3914	0.619	ug/l #	1
74) N-amyl acetate	11.88	43	27123	2.554	ug/l #	52
76) 1,2,3-Trichloropropane	12.40	75	257675	35.941	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	23822	0.735	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.40	75	257675	88.882	ug/l #	15
95) Naphthalene	15.14	128	311	3.961	ug/l #	69

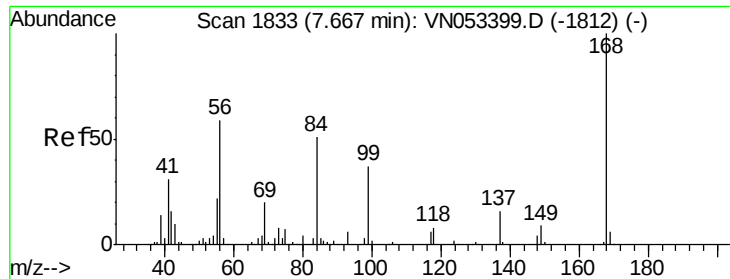
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN012819\
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Quant Title : SW846 8260
QLast Update : Wed Jan 16 03:10:53 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: VN053552.D

Acq: 28 Jan 2019 18:09

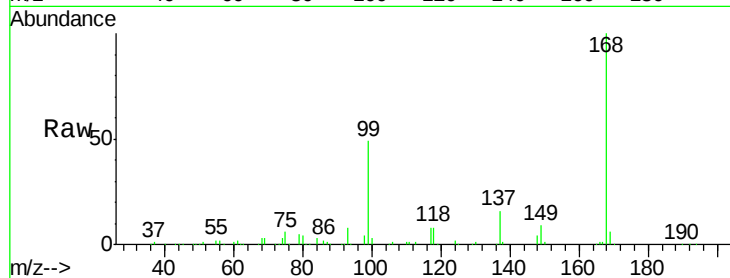
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 847040

Ion Ratio Lower Upper

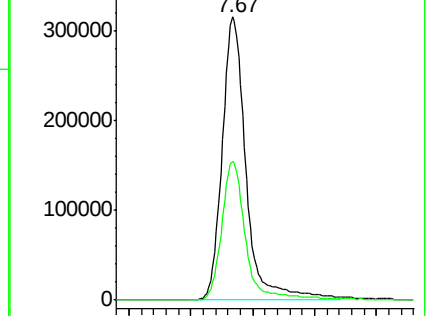
168 100

99 49.2 39.1 58.7

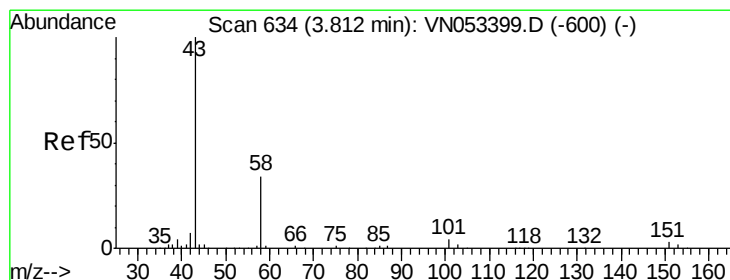
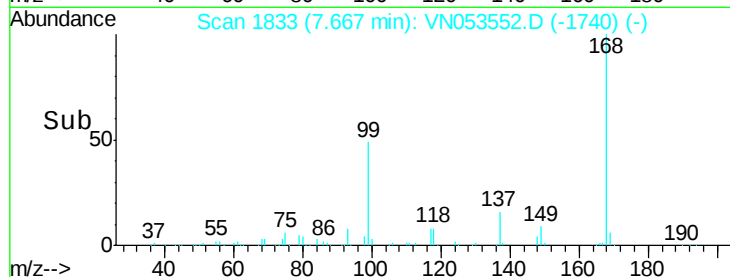


Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



Time-->



#16

Acetone

Concen: 11.054 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN053552.D

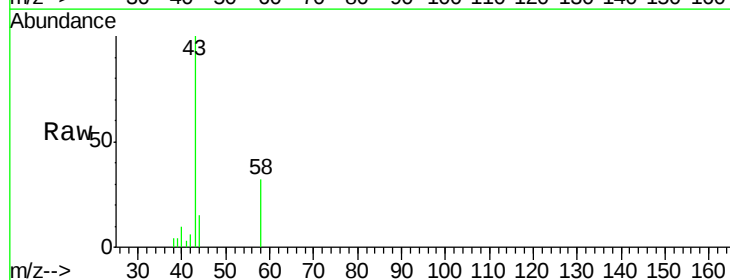
Acq: 28 Jan 2019 18:09

Tgt Ion: 43 Resp: 21712

Ion Ratio Lower Upper

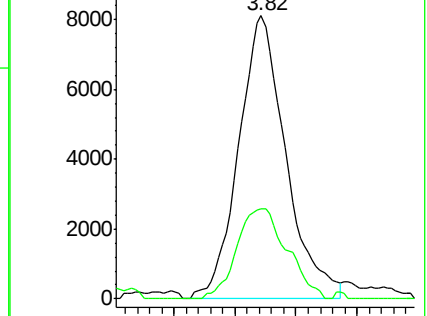
43 100

58 31.9 27.1 40.7

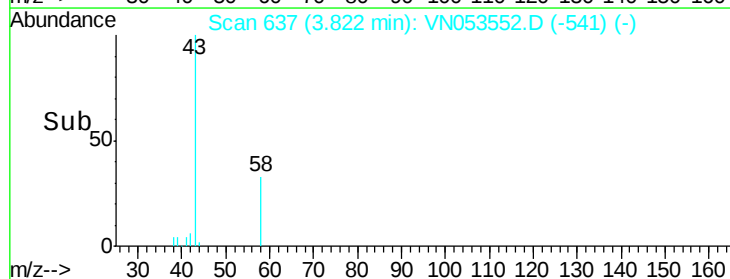


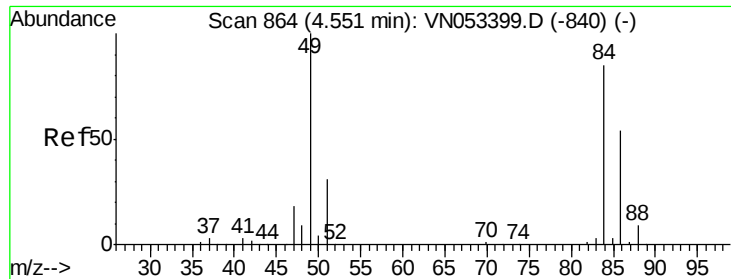
Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO



Time-->

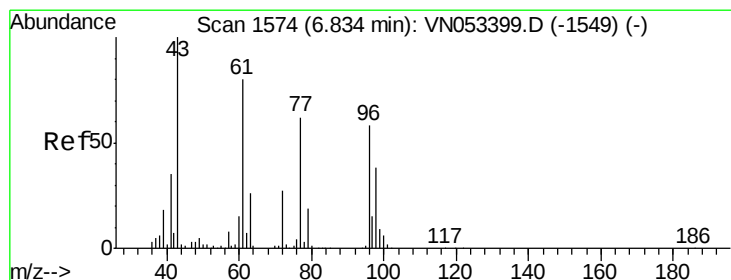
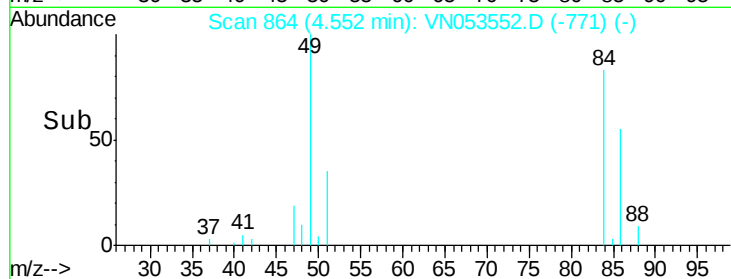
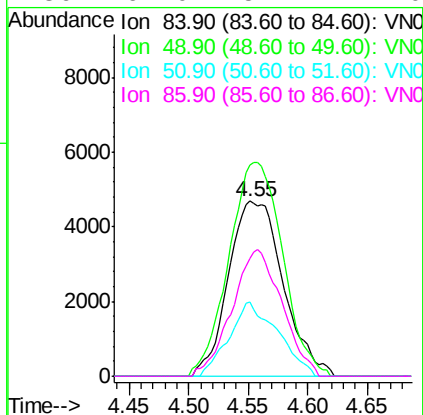
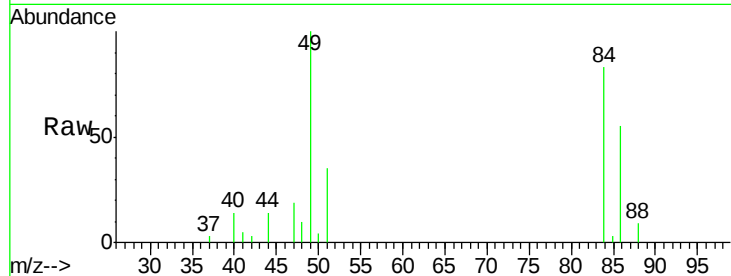




#20
Methvlene Chloride
Concen: 1.666 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.00 min
Lab File: VN053552.D
Acq: 28 Jan 2019 18:09

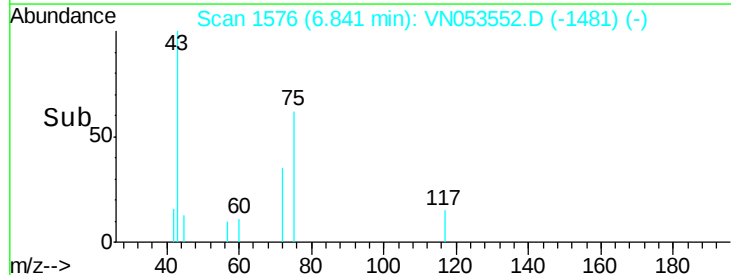
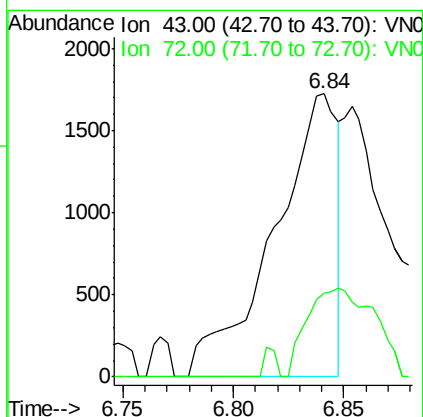
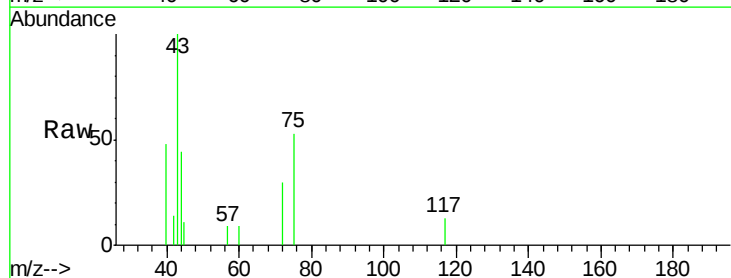
Instrument :
MSVOA_N
ClientSampled :

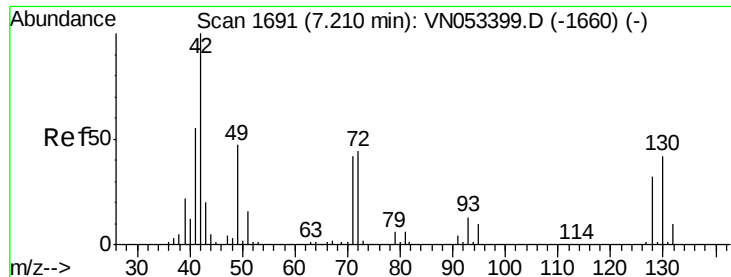
Tot Ion: 84 Resp: 14942
Ion Ratio Lower Upper
84 100
49 120.7 94.3 141.5
51 42.1 29.4 44.2
86 67.0 51.4 77.0



#25
2-Butanone
Concen: 1.132 ug/l
RT: 6.84 min Scan# 1576
Delta R.T. 0.01 min
Lab File: VN053552.D
Acq: 28 Jan 2019 18:09

Tgt Ion: 43 Resp: 3425
Ion Ratio Lower Upper
43 100
72 29.8 22.0 33.0





#29

Tetrahydrofuran

Concen: 0.460 ug/l

RT: 7.21 min Scan# 1690

Delta R.T. -0.00 min

Lab File: VN053552.D

Acq: 28 Jan 2019 18:09

Instrument :

MSVOA_N

ClientSampleId :

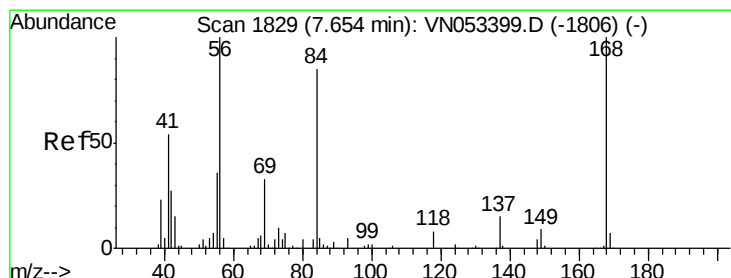
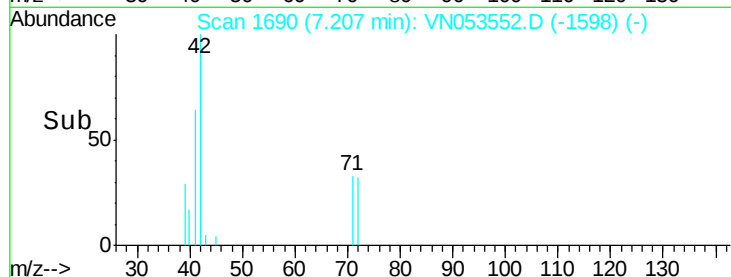
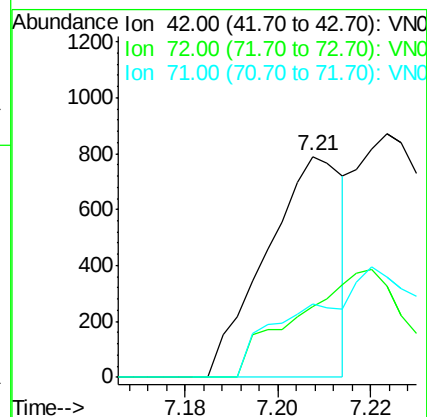
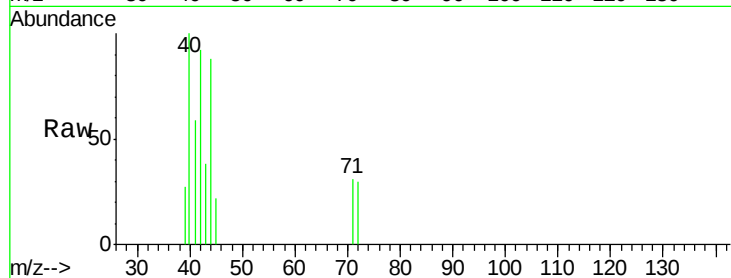
Tot Ion: 42 Resp: 907

Ion Ratio Lower Upper

42 100

72 64.6 35.2 52.8#

71 76.6 33.0 49.4#



#31

Cyclohexane

Concen: 0.601 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN053552.D

Acq: 28 Jan 2019 18:09

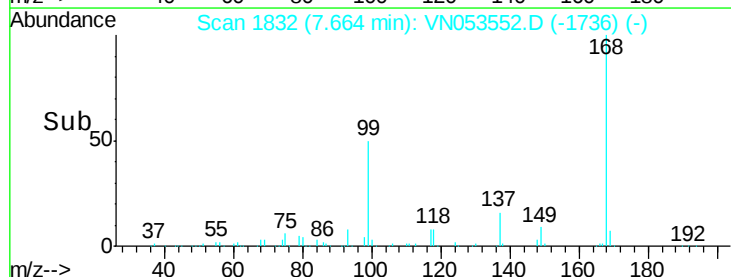
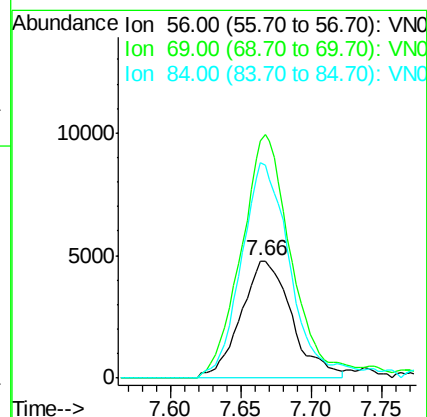
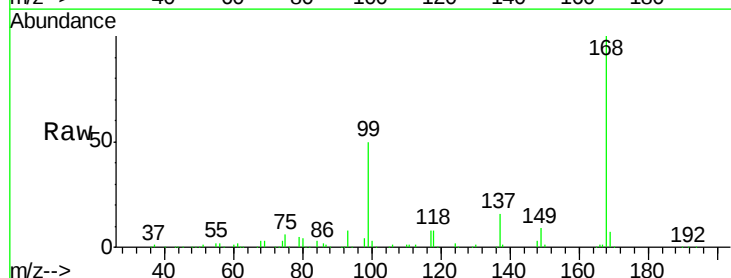
Tgt Ion: 56 Resp: 12093

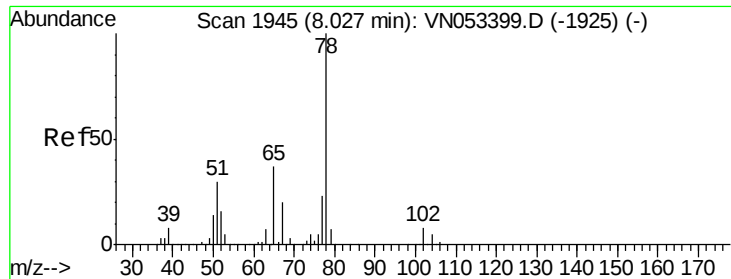
Ion Ratio Lower Upper

56 100

69 202.7 26.4 39.6#

84 183.8 67.9 101.9#





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN053552.D

Acq: 28 Jan 2019 18:09

Instrument :

MSVOA_N

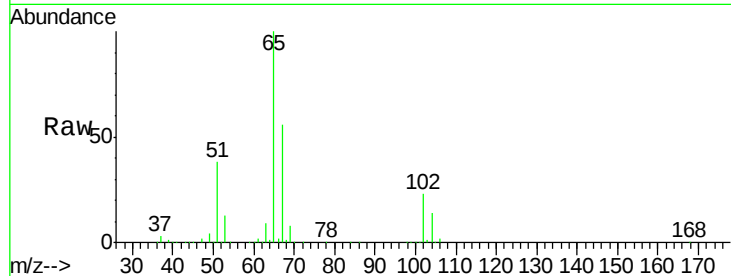
ClientSampleId :

Tot Ion: 65 Resp: 437125

Ion Ratio Lower Upper

65 100

67 55.5 0.0 111.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

8.03

200000

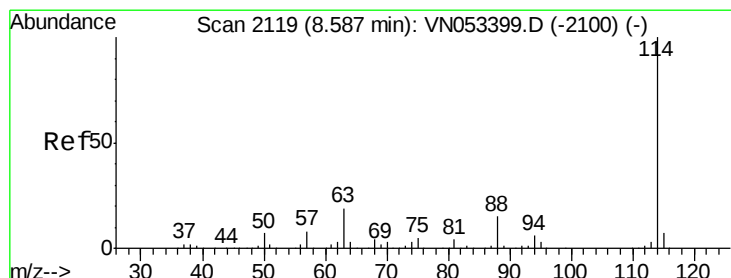
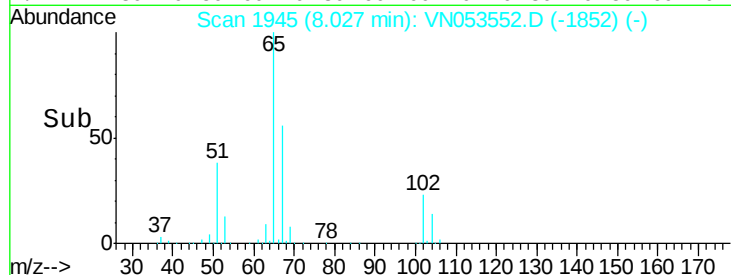
150000

100000

50000

0

Time--> 7.90 8.00 8.10 8.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN053552.D

Acq: 28 Jan 2019 18:09

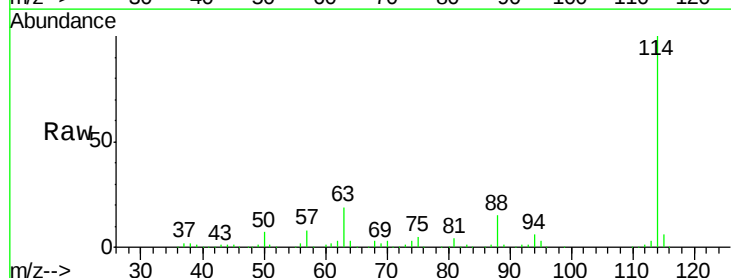
Tgt Ion: 114 Resp: 1373265

Ion Ratio Lower Upper

114 100

63 19.1 0.0 38.6

88 15.1 0.0 30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0

8.59

800000

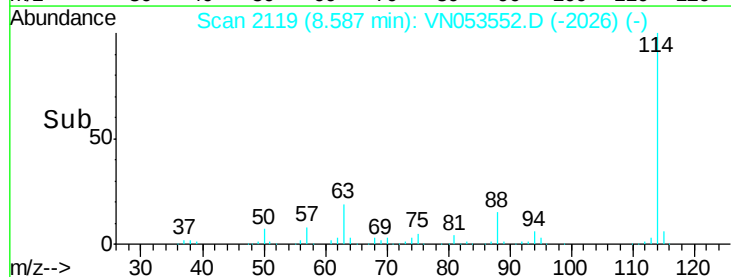
600000

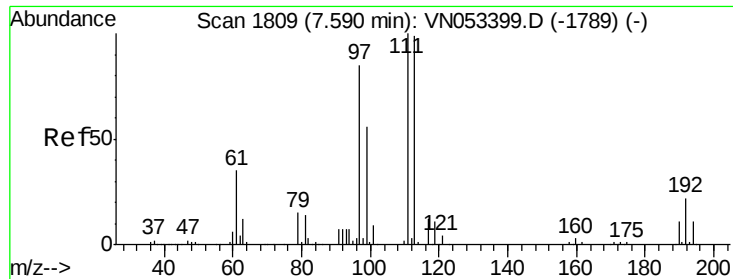
400000

200000

0

Time--> 8.50 8.60 8.70 8.80





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN053552.D

Acq: 28 Jan 2019 18:09

Instrument :
MSVOA_N
ClientSampleId :

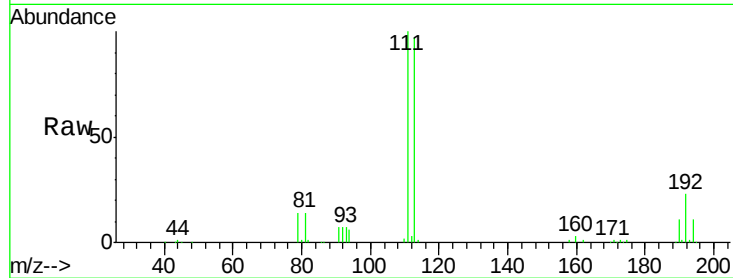
Tot Ion:113 Resp: 425989

Ion Ratio Lower Upper

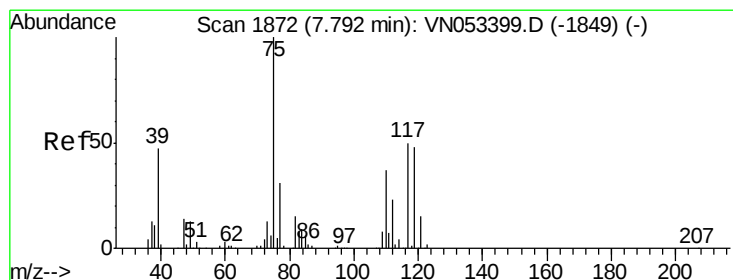
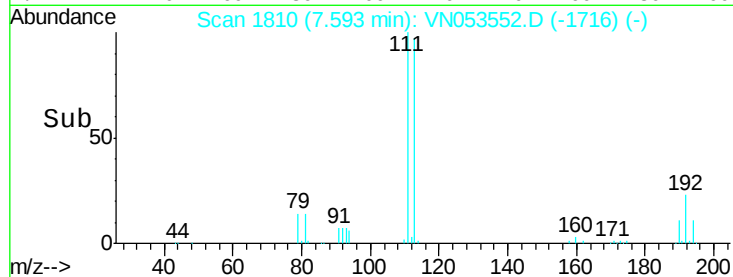
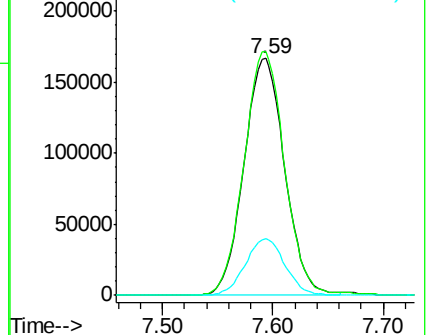
113 100

111 102.9 81.1 121.7

192 23.5 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: 4.077 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN053552.D

Acq: 28 Jan 2019 18:09

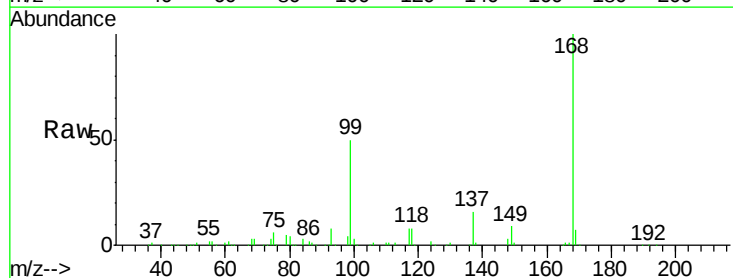
Tgt Ion: 75 Resp: 50985

Ion Ratio Lower Upper

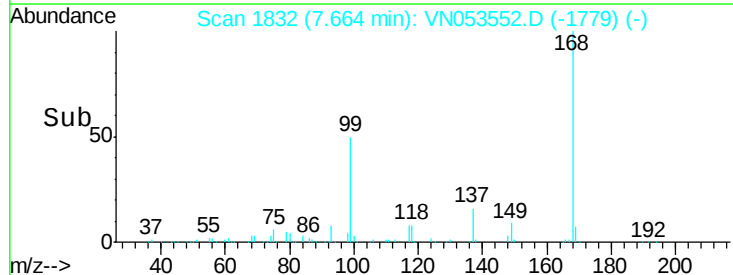
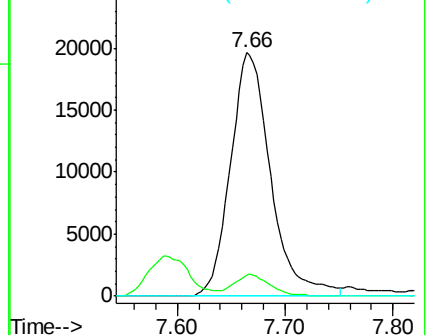
75 100

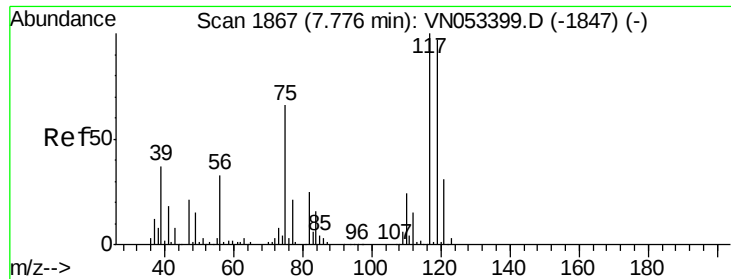
110 7.7 18.1 54.3#

77 0.0 25.1 37.7#



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

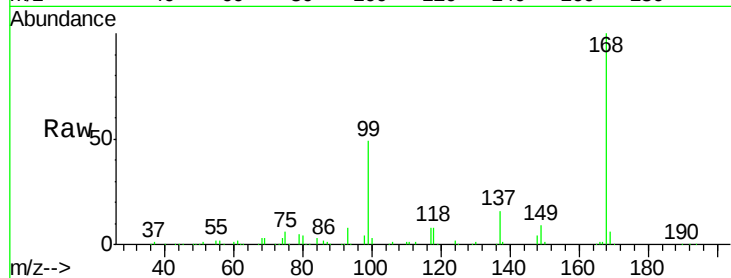




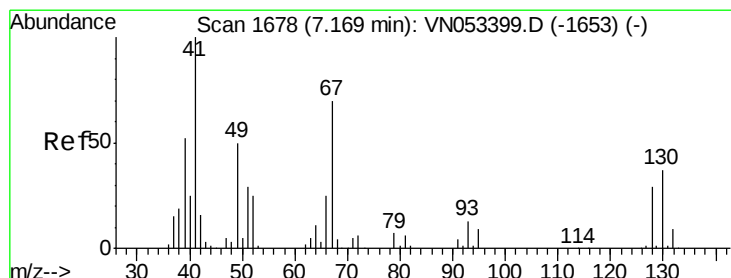
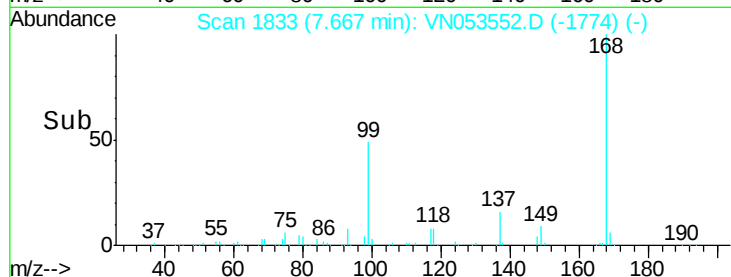
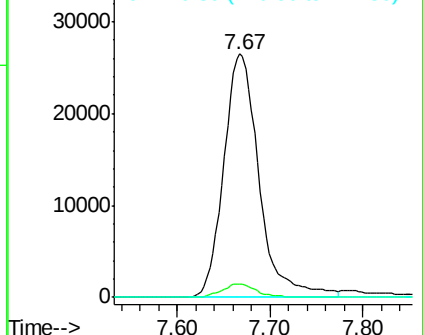
#38
Carbon Tetrachloride
Concen: 5.943 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.11 min
Lab File: VN053552.D
Acq: 28 Jan 2019 18:09

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 70371
Ion Ratio Lower Upper
117 100
119 5.4 77.2 115.8#
121 0.0 24.6 37.0#

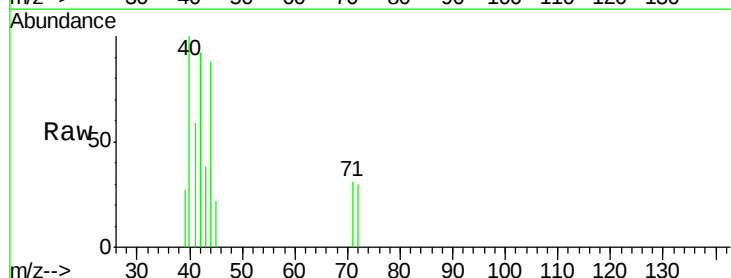


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

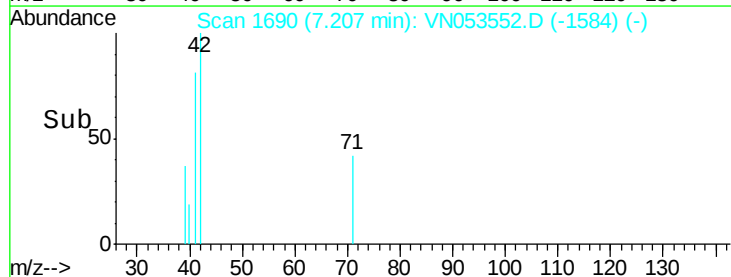
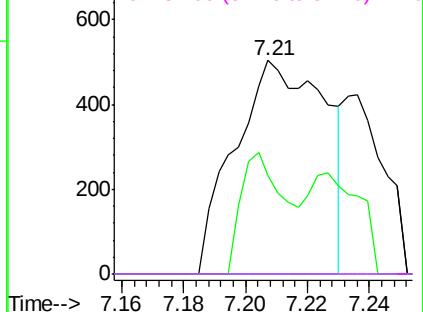


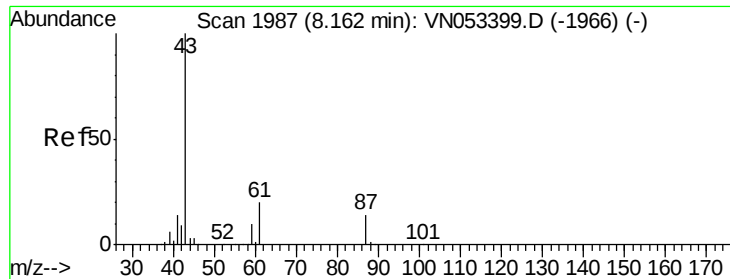
#41
Methacrylonitrile
Concen: 0.904 ug/l
RT: 7.21 min Scan# 1690
Delta R.T. 0.04 min
Lab File: VN053552.D
Acq: 28 Jan 2019 18:09

Tgt Ion: 41 Resp: 1027
Ion Ratio Lower Upper
41 100
39 27.5 46.8 70.2#
67 0.0 63.0 94.6#
52 0.0 23.8 35.8#



Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 39.00 (38.70 to 39.70): VNC
Ion 67.00 (66.70 to 67.70): VNC
Ion 52.00 (51.70 to 52.70): VNC



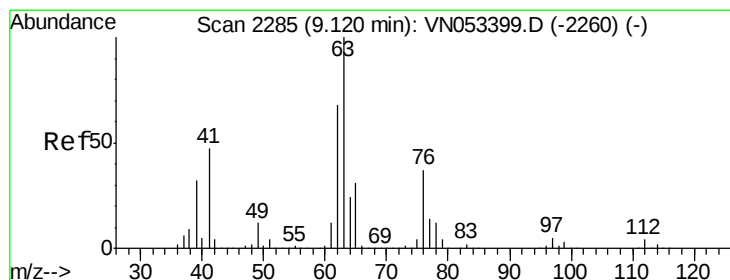
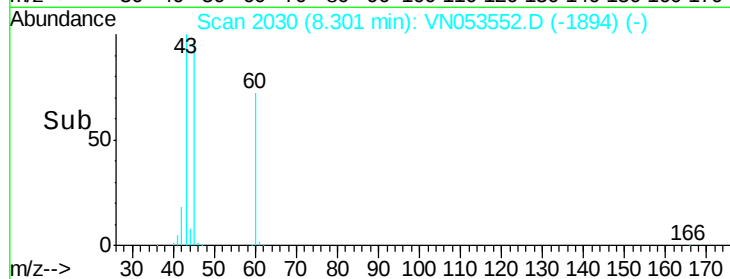
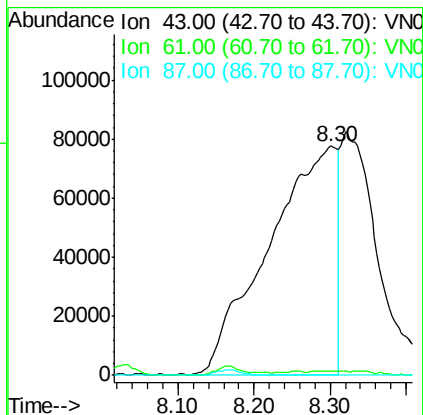
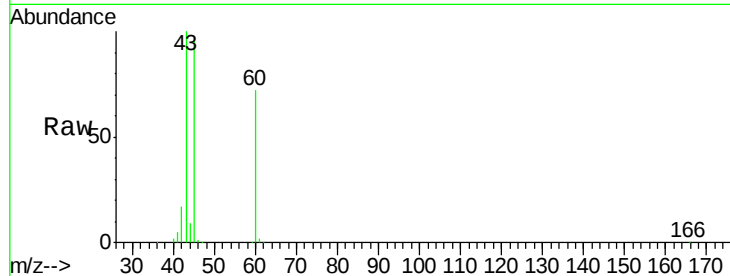


#43

Isopropyl Acetate
 Concen: 37.012 ug/l
 RT: 8.30 min Scan# 2030
 Delta R.T. 0.14 min
 Lab File: VN053552.D
 Acq: 28 Jan 2019 18:09

Instrument :
 MSVOA_N
 ClientSampled :

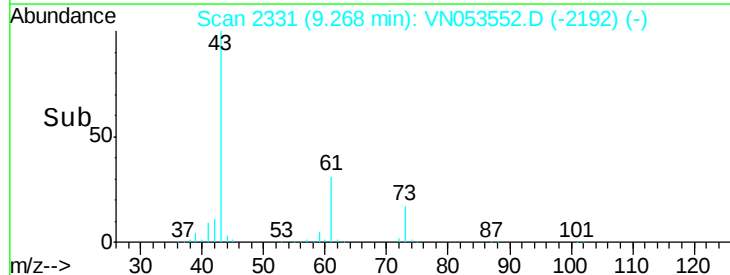
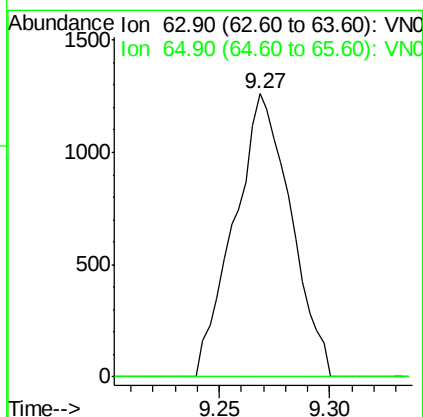
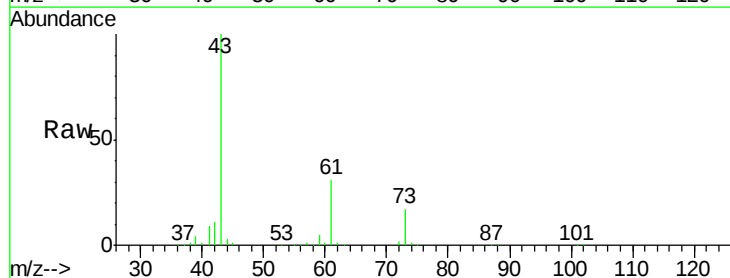
Tot Ion: 43 Resp: 478870
 Ion Ratio Lower Upper
 43 100
 61 0.0 23.9 35.9#
 87 0.0 11.0 16.6#

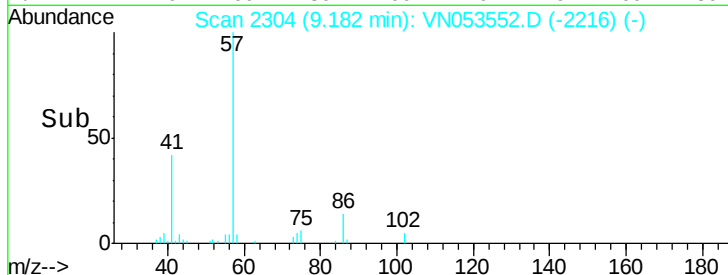
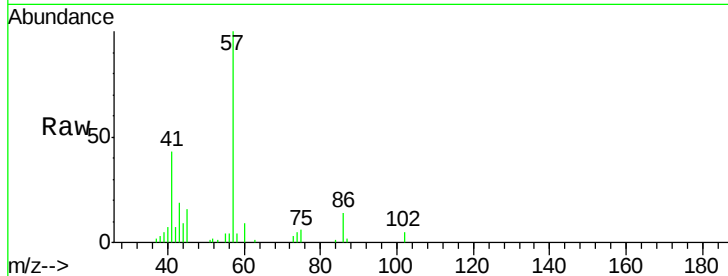
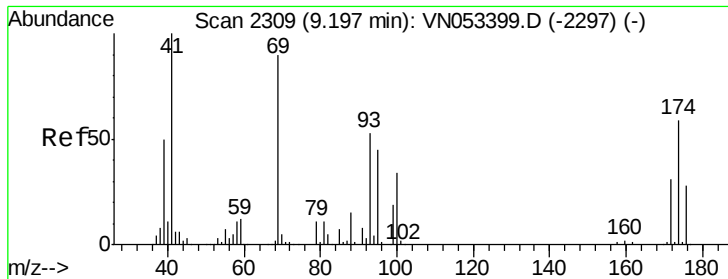


#45

1,2-Dichloropropane
 Concen: 0.223 ug/l
 RT: 9.27 min Scan# 2331
 Delta R.T. 0.15 min
 Lab File: VN053552.D
 Acq: 28 Jan 2019 18:09

Tgt Ion: 63 Resp: 2243
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.4#





#48

Methyl methacrylate

Concen: 1.960 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN053552.D

Acq: 28 Jan 2019 18:09

Instrument :

MSVOA_N

ClientSampled :

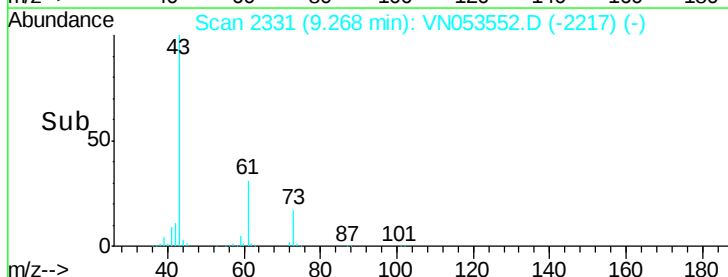
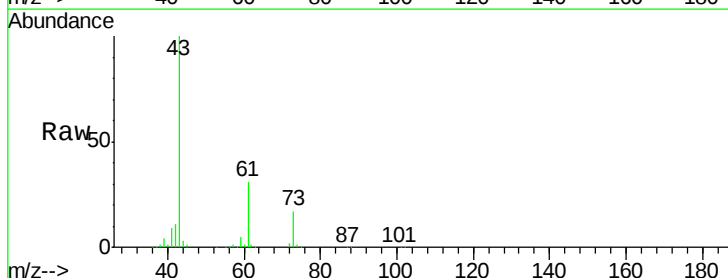
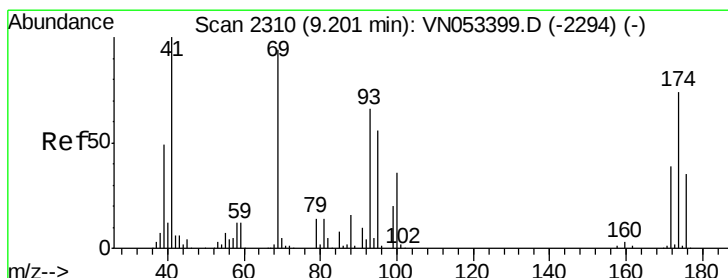
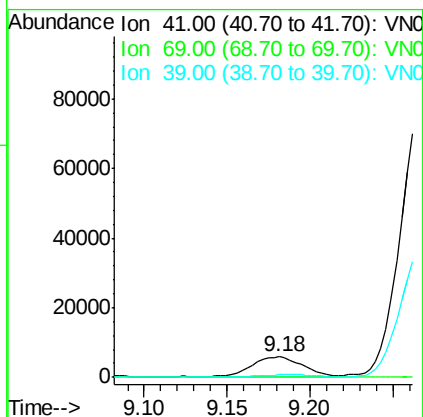
Tot Ion: 41 Resp: 13093

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: 2.912 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.07 min

Lab File: VN053552.D

Acq: 28 Jan 2019 18:09

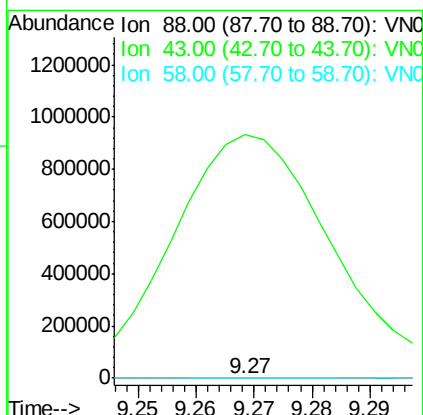
Tgt Ion: 88 Resp: 190

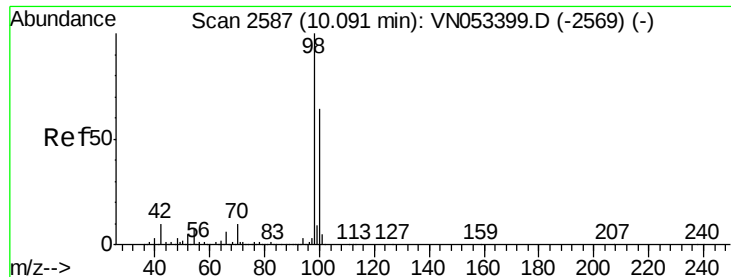
Ion Ratio Lower Upper

88 100

43 1007910.0 27.8 41.6#

58 4323.2 56.5 84.7#





#50

Toluene-d8

Concen: 2.912 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053552.D

Acq: 28 Jan 2019 18:09

Instrument :

MSVOA_N

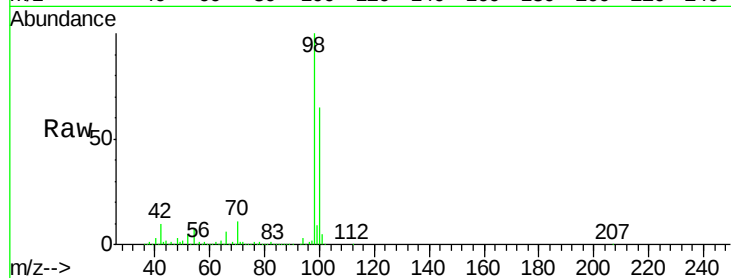
ClientSampled :

Tot Ion: 98 Resp: 1655710

Ion Ratio Lower Upper

98 100

100 64.9 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VN053399.D (-2569) (-)

Ion 100.00 (99.70 to 100.70): VN053399.D (-2569) (-)

10.09

800000

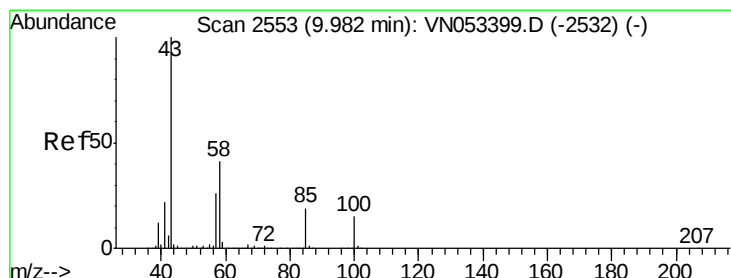
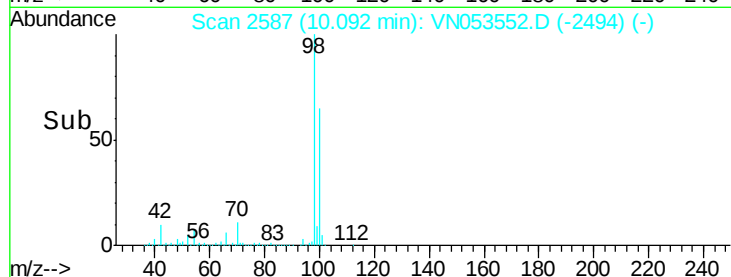
600000

400000

200000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.534 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN053552.D

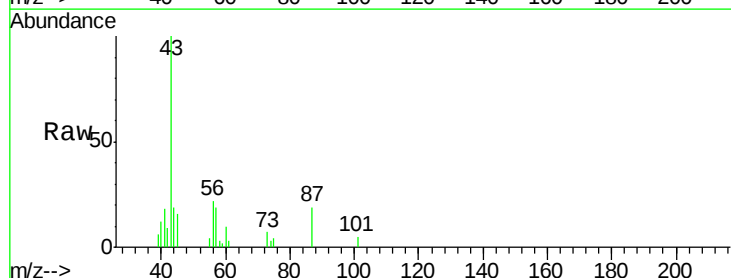
Acq: 28 Jan 2019 18:09

Tgt Ion: 43 Resp: 10832

Ion Ratio Lower Upper

43 100

58 0.0 32.8 49.2#



Abundance Ion 43.00 (42.70 to 43.70): VN053399.D (-2532) (-)

Ion 58.00 (57.70 to 58.70): VN053399.D (-2532) (-)

10.02

8000

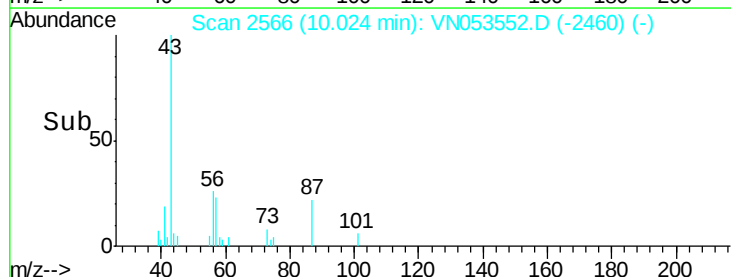
6000

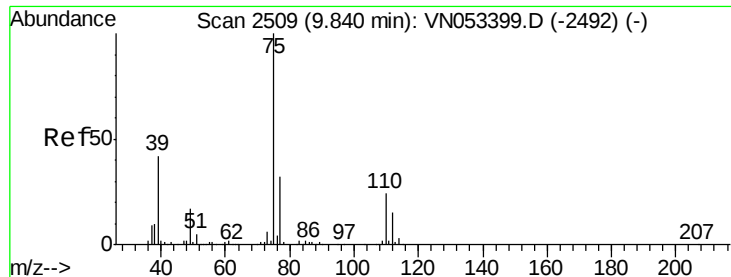
4000

2000

0

Time-->



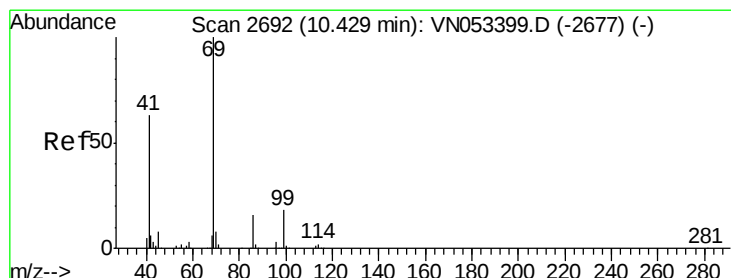
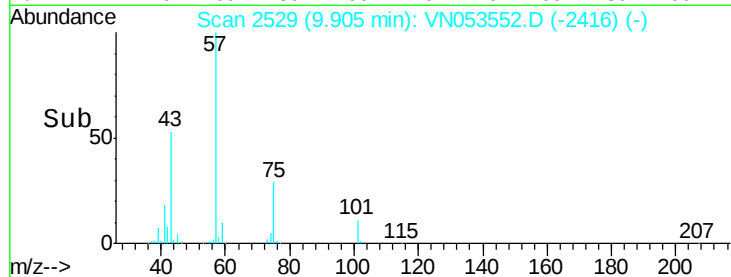
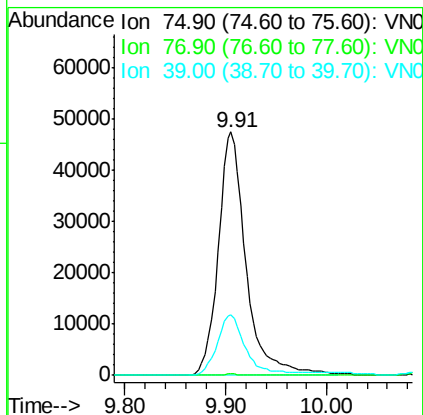
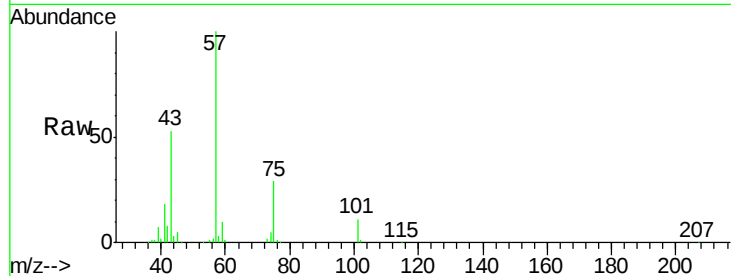


#54

cis-1,3-Dichloropropene
 Concen: 6.324 ug/l
 RT: 9.91 min Scan# 2529
 Delta R.T. 0.06 min
 Lab File: VN053552.D
 Acq: 28 Jan 2019 18:09

Instrument :
 MSVOA_N
 ClientSampled :

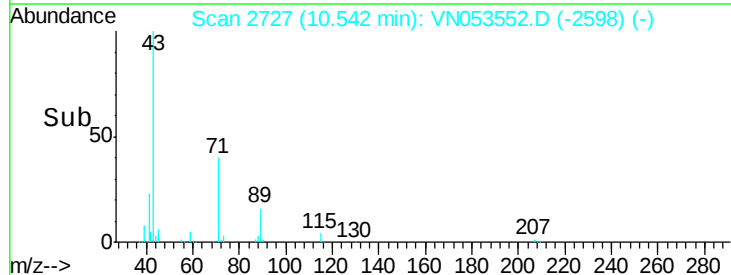
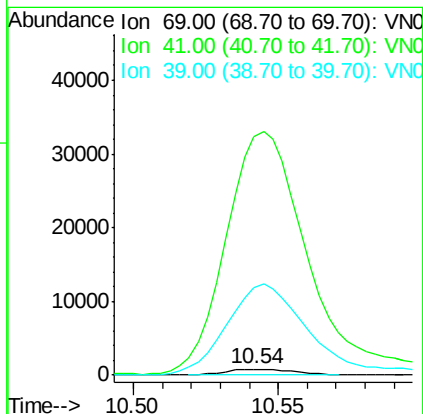
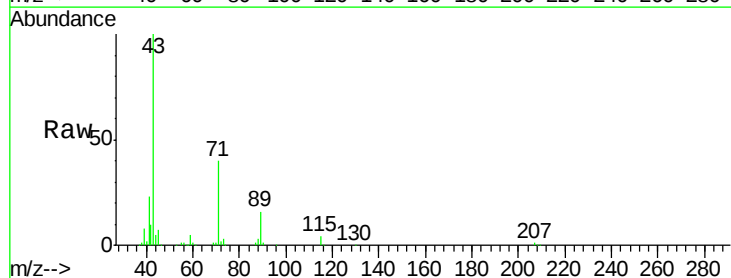
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.5	25.8	38.6#
39	24.9	33.4	50.0#

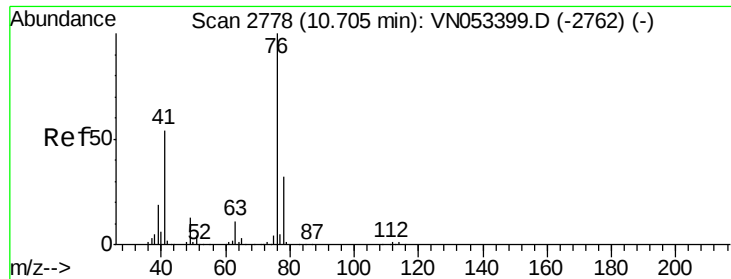


#56

Ethyl methacrylate
 Concen: 2.166 ug/l
 RT: 10.54 min Scan# 2727
 Delta R.T. 0.11 min
 Lab File: VN053552.D
 Acq: 28 Jan 2019 18:09

Tgt Ion	Ratio	Lower	Upper
69	100		
41	5003.2	49.4	74.0#
39	1870.7	23.3	34.9#

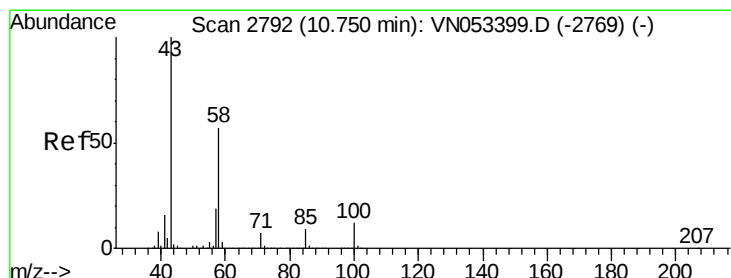
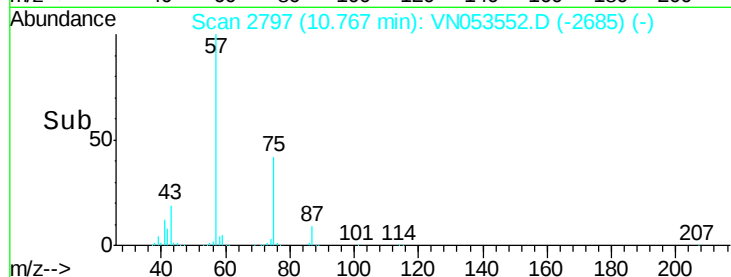
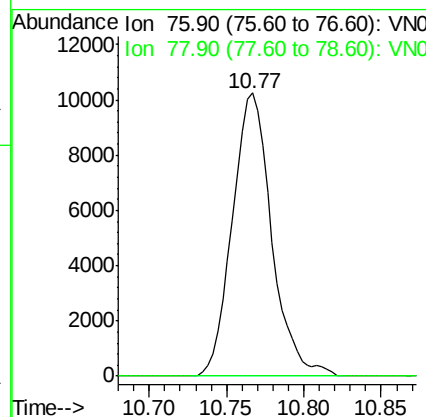
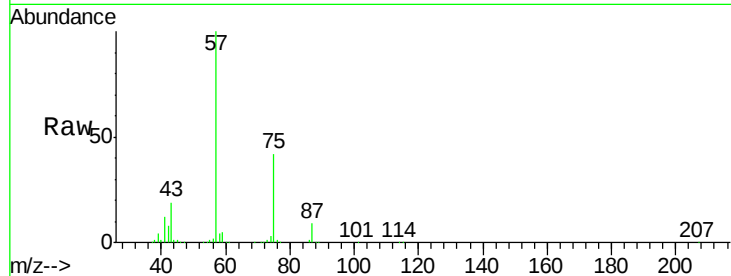




#57
 1,3-Dichloropropane
 Concen: 1.283 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.06 min
 Lab File: VN053552.D
 Acq: 28 Jan 2019 18:09

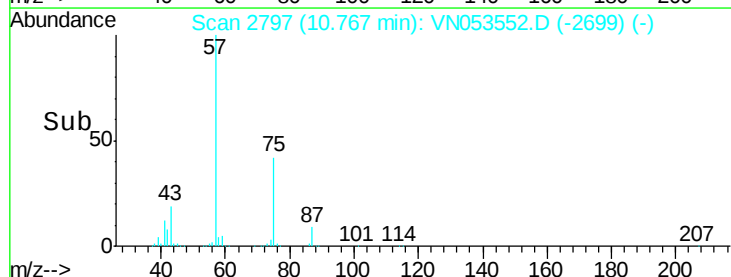
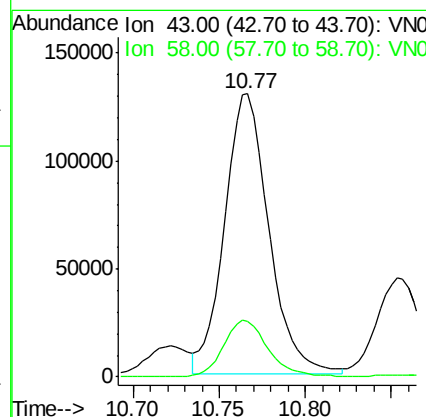
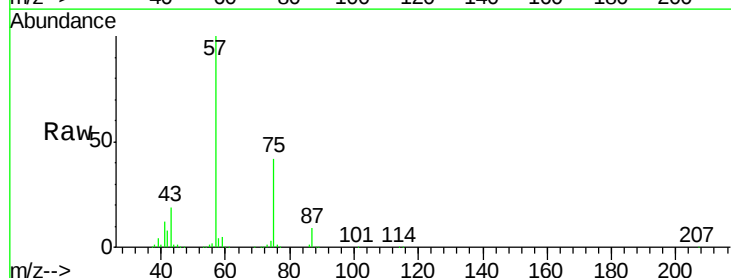
Instrument :
 MSVOA_N
 ClientSampled :

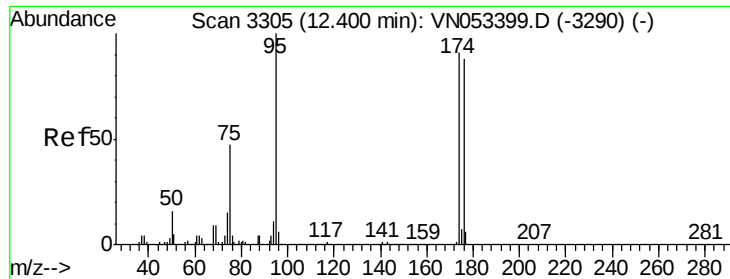
Tot Ion: 76 Resp: 18057
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#



#59
 2-Hexanone
 Concen: 46.984 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.02 min
 Lab File: VN053552.D
 Acq: 28 Jan 2019 18:09

Tgt Ion: 43 Resp: 232946
 Ion Ratio Lower Upper
 43 100
 58 20.5 28.6 85.8#





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN053552.D

Acq: 28 Jan 2019 18:09

Instrument :

MSVOA_N

ClientSampled :

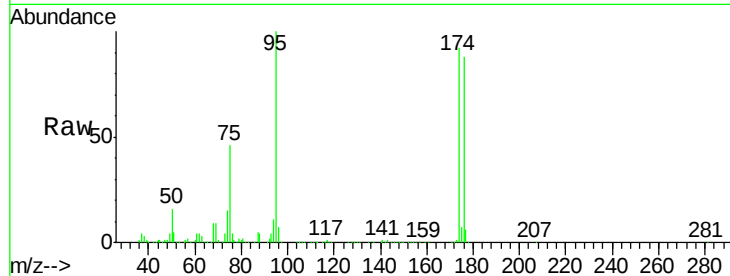
Tot Ion: 95 Resp: 561880

Ion Ratio Lower Upper

95 100

174 91.6 0.0 183.2

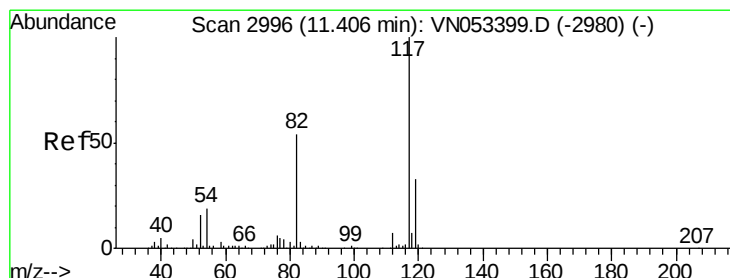
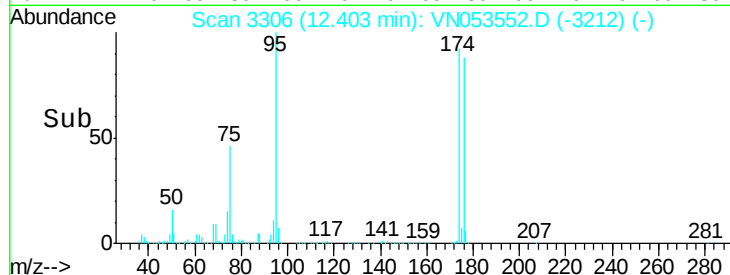
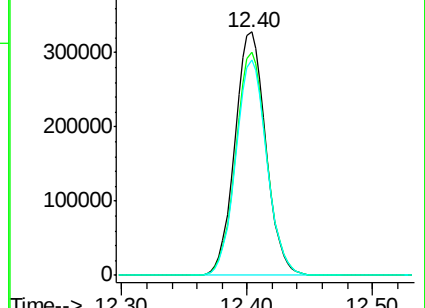
176 88.7 0.0 177.4



Abundance Ion 94.90 (94.60 to 95.60): VN053399.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN053399.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN053399.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN053552.D

Acq: 28 Jan 2019 18:09

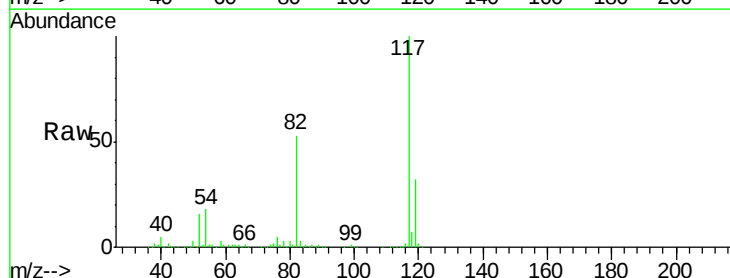
Tgt Ion: 117 Resp: 1247495

Ion Ratio Lower Upper

117 100

82 52.6 42.9 64.3

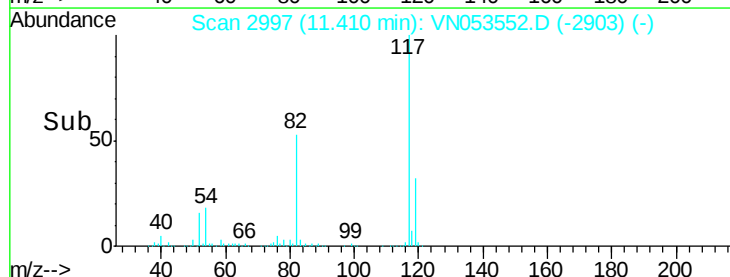
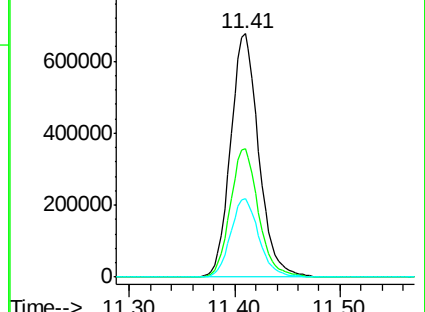
119 32.2 26.0 39.0

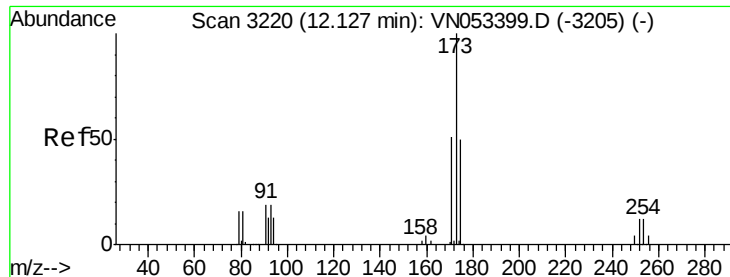


Abundance Ion 116.90 (116.60 to 117.60): VN053399.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN053399.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN053399.D (-2980) (-)





#71

Bromoform

Concen: 0.619 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN053552.D

Acq: 28 Jan 2019 18:09

Instrument :

MSVOA_N

ClientSampled :

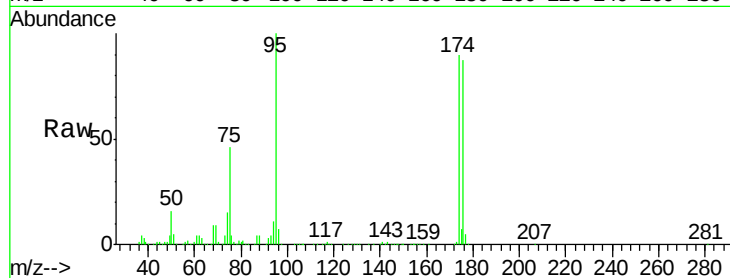
Tot Ion:173 Resp: 3914

Ion Ratio Lower Upper

173 100

175 799.0 24.6 74.0#

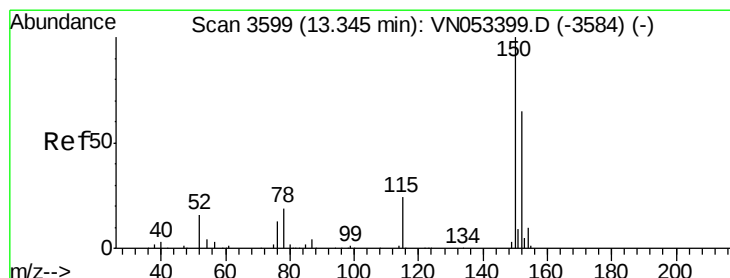
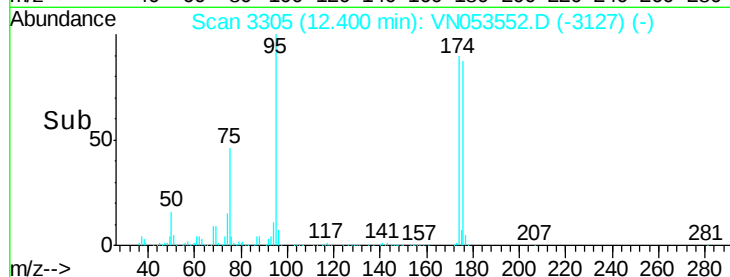
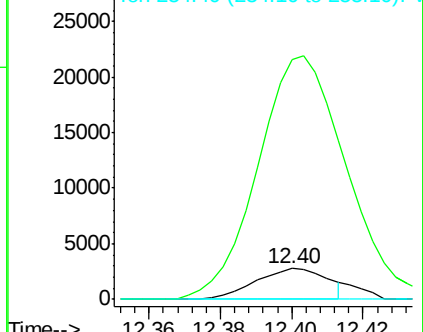
254 0.0 0.2 0.2#



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: VN053552.D

Acq: 28 Jan 2019 18:09

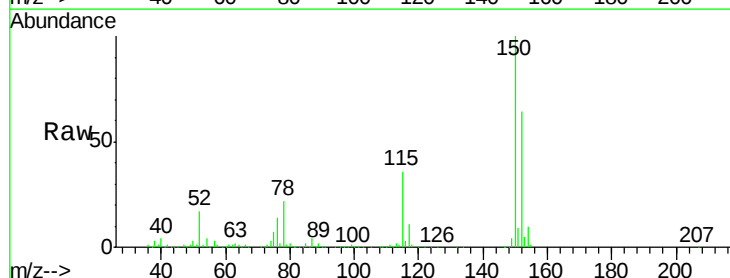
Tgt Ion:152 Resp: 544044

Ion Ratio Lower Upper

152 100

115 55.6 27.8 83.4

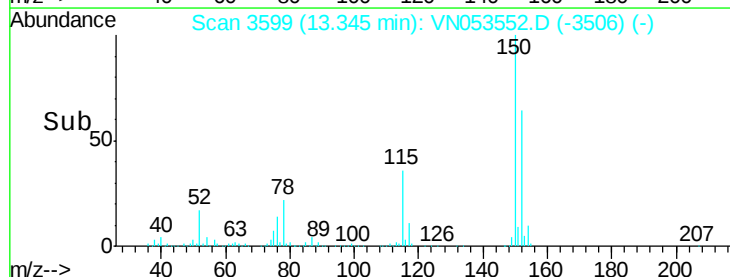
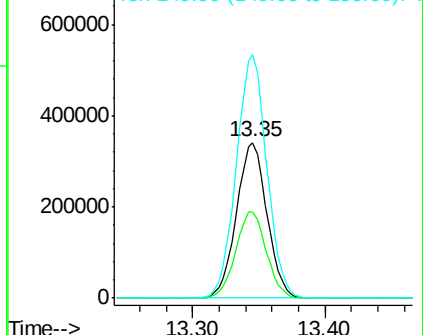
150 156.8 0.0 349.0

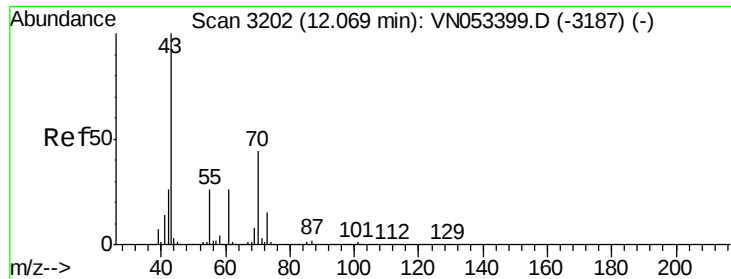


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 2.554 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN053552.D

Acq: 28 Jan 2019 18:09

Instrument :

MSVOA_N

ClientSampled :

Tot Ion: 43 Resp: 27123

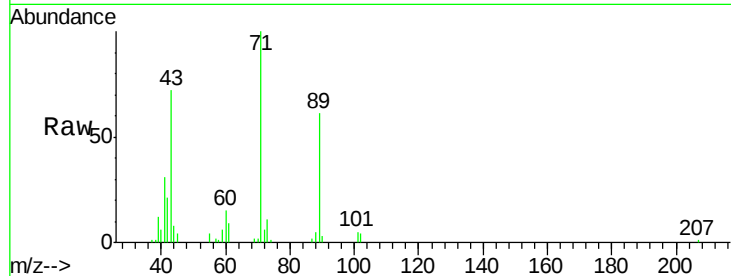
Ion Ratio Lower Upper

43 100

70 2.4 35.4 53.2#

55 5.3 20.9 31.3#

61 11.3 20.5 30.7#

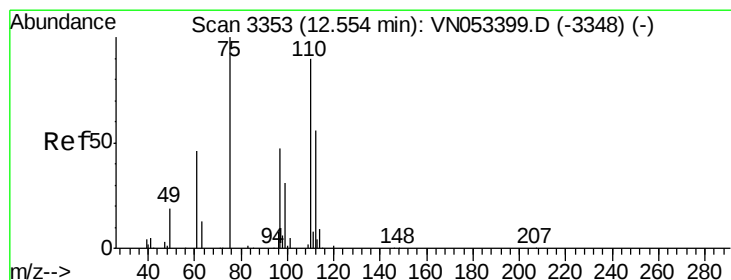
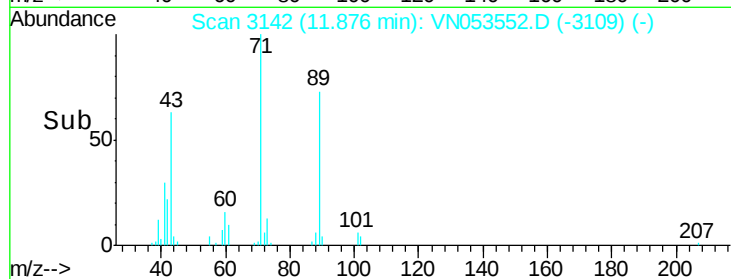
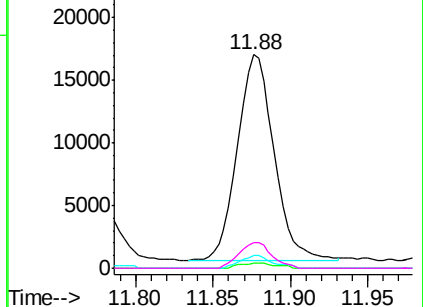


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 35.941 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN053552.D

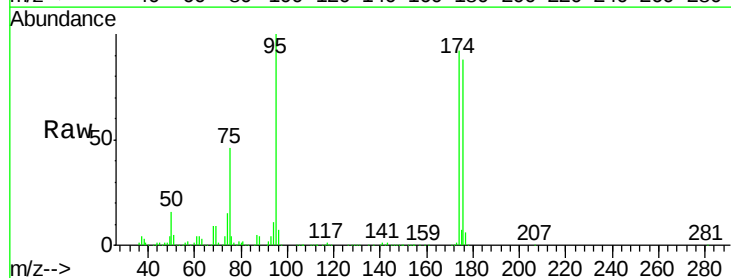
Acq: 28 Jan 2019 18:09

Tgt Ion: 75 Resp: 257675

Ion Ratio Lower Upper

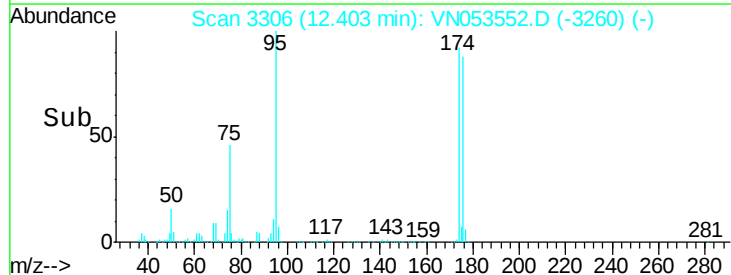
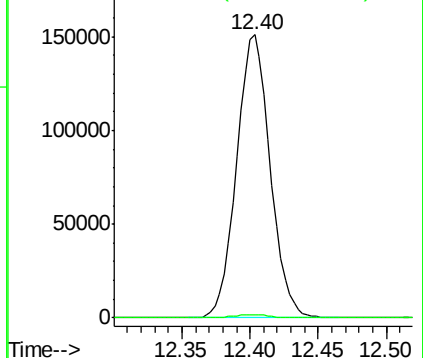
75 100

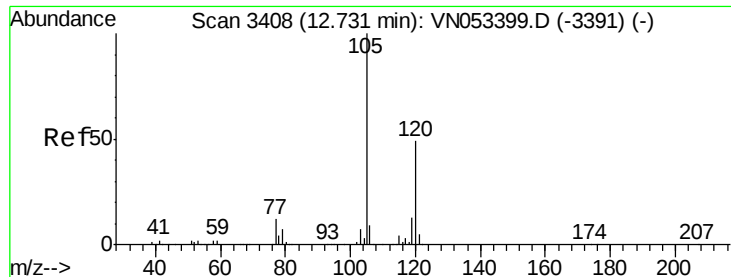
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#80

1,3,5-Trimethylbenzene

Concen: 0.735 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN053552.D

Acq: 28 Jan 2019 18:09

Instrument :

MSVOA_N

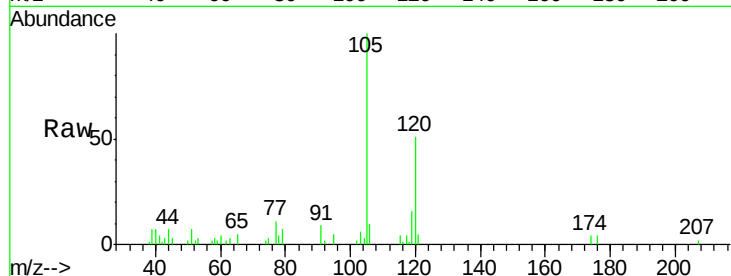
ClientSampleId :

Tot Ion:105 Resp: 23822

Ion Ratio Lower Upper

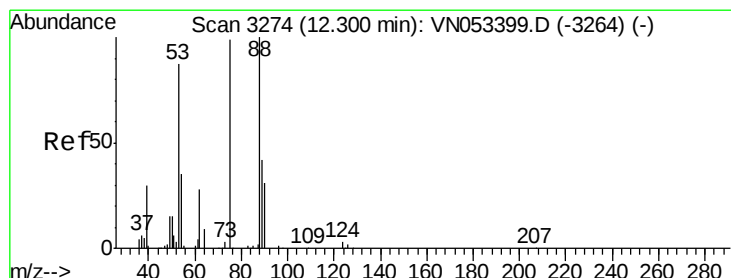
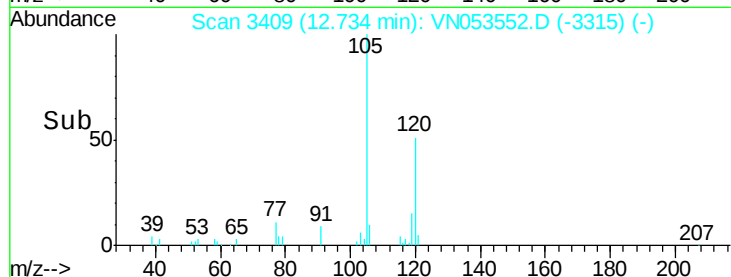
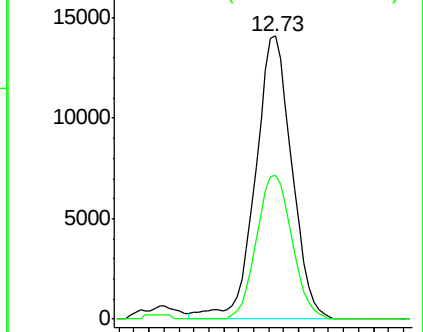
105 100

120 49.6 24.9 74.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 88.882 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN053552.D

Acq: 28 Jan 2019 18:09

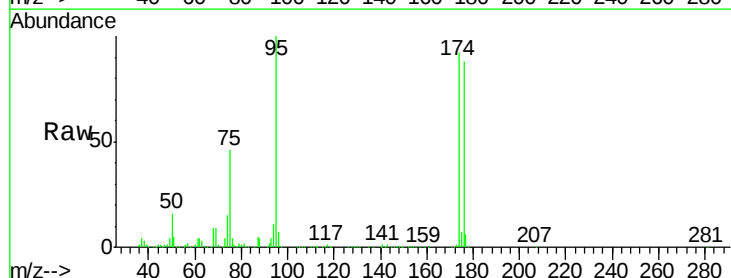
Tgt Ion: 75 Resp: 257675

Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.6#

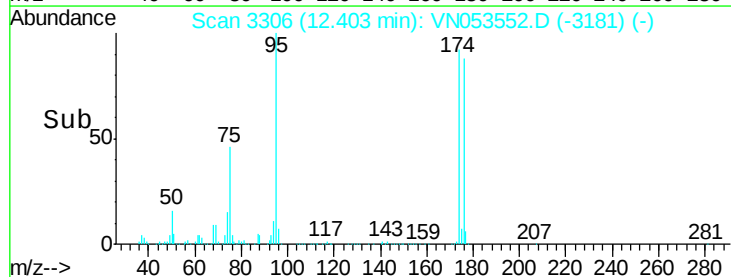
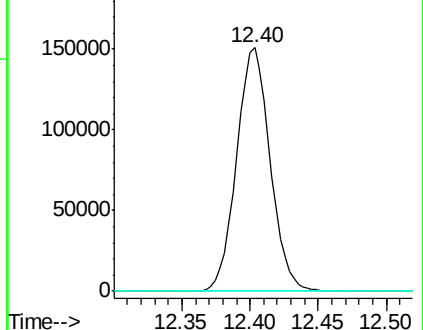
89 0.0 35.6 53.4#

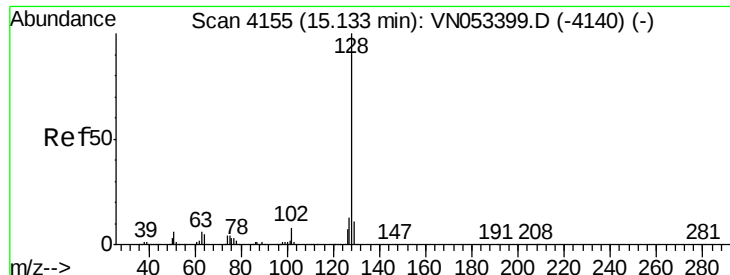


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#95

Naphthalene

Concen: 3.961 ug/l

RT: 15.14 min Scan# 4158

Delta R.T. 0.01 min

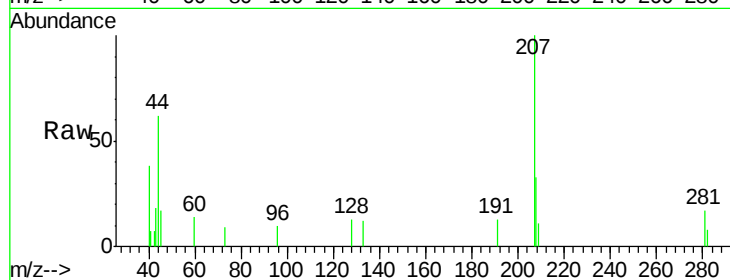
Lab File: VN053552.D

Acq: 28 Jan 2019 18:09

Instrument :

MSVOA_N

ClientSampleId :



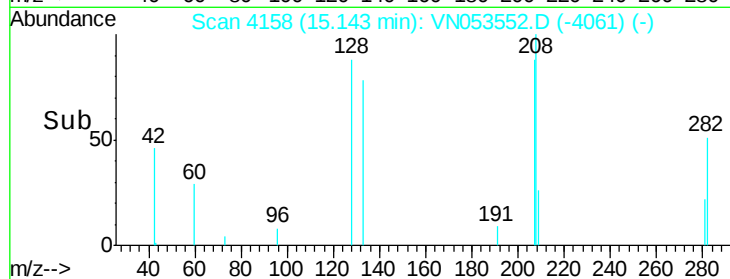
Tot Ion:128 Resp: 311

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): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

