

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081618\
 Data File : VN050703.D
 Acq On : 16 Aug 2018 15:56
 Operator : MD\SY
 Sample : PB112098ZHE#07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 17 04:31:48 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 14 08:07:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	605770	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1029537	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	878932	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	311006	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	429805	56.29	ug/l	0.00
Spiked Amount			Recovery	=	112.58%	
35) Dibromofluoromethane	7.59	113	396725	48.27	ug/l	0.00
Spiked Amount			Recovery	=	96.54%	
50) Toluene-d8	10.09	98	1397078	45.16	ug/l	0.00
Spiked Amount			Recovery	=	90.32%	
62) 4-Bromofluorobenzene	12.40	95	381057	37.29	ug/l	0.00
Spiked Amount			Recovery	=	74.58%	

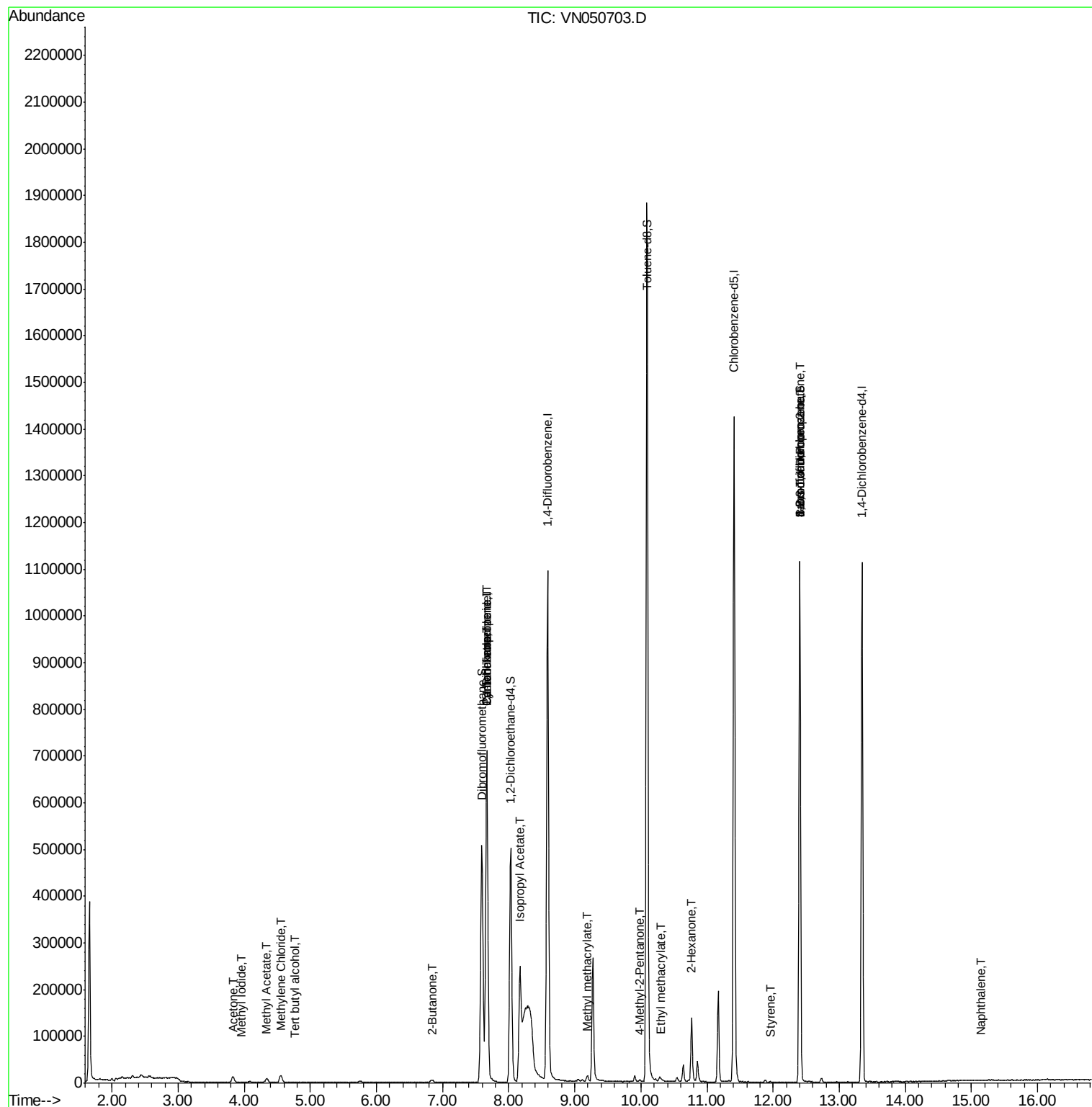
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2277	Below Cal		97
5) Bromomethane	2.57	94	2959	Below Cal		99
6) Chloroethane	2.70	64	200	Below Cal	#	43
10) Methyl Iodide	3.96	142	483	7.030	ug/l #	50
11) Tert butyl alcohol	4.77	59	89	0.213	ug/l #	72
16) Acetone	3.83	43	21639	9.958	ug/l	95
18) Methyl Acetate	4.34	43	14759	1.793	ug/l #	80
20) Methylene Chloride	4.56	84	12703	0.491	ug/l	90
25) 2-Butanone	6.85	43	2330	0.744	ug/l	97
31) Cyclohexane	7.67	56	11321	0.637	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	41840	3.651	ug/l #	48
38) Carbon Tetrachloride	7.67	117	54594	4.592	ug/l #	17
43) Isopropyl Acetate	8.17	43	320490	27.147	ug/l #	93
48) Methyl methacrylate	9.18	41	7004	1.179	ug/l #	20
51) 4-Methyl-2-Pentanone	9.99	43	2382	0.298	ug/l #	86
56) Ethyl methacrylate	10.31	69	102	1.915	ug/l #	28
59) 2-Hexanone	10.77	43	19914	3.864	ug/l #	55
70) Styrene	11.97	104	332	0.955	ug/l #	26
71) Bromoform	12.41	173	3393	0.624	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.40	83	113	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	182714	36.076	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	182714	130.612	ug/l #	13
95) Naphthalene	15.14	128	30	3.863	ug/l #	69

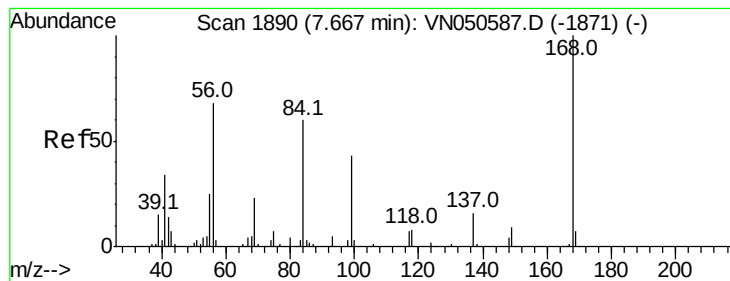
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050703.D

Acq: 16 Aug 2018 15:56

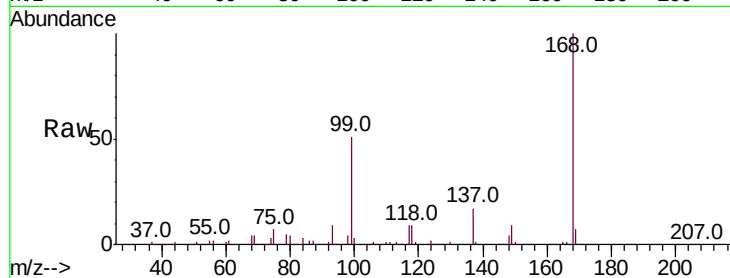
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 605770

Ion Ratio Lower Upper

168 100

99 50.9 40.8 61.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

250000

200000

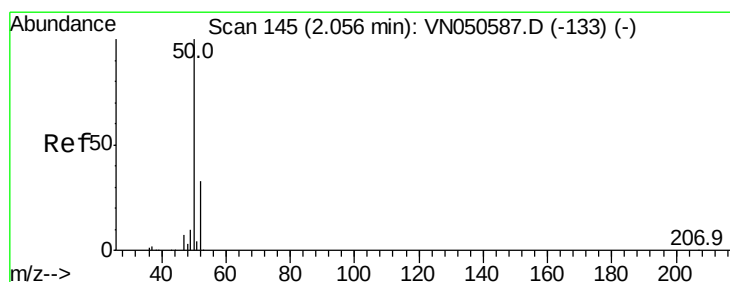
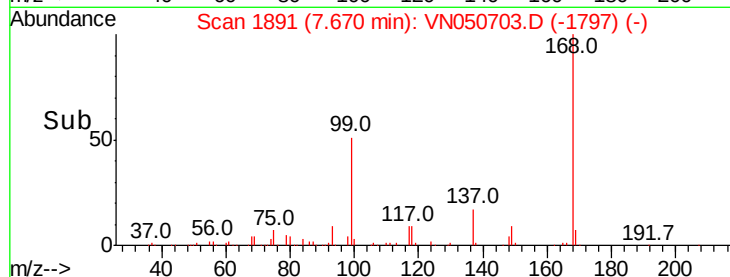
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 145

Delta R.T. 0.00 min

Lab File: VN050703.D

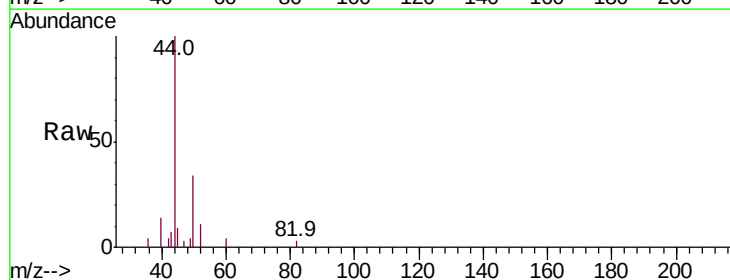
Acq: 16 Aug 2018 15:56

Tgt Ion: 50 Resp: 2277

Ion Ratio Lower Upper

50 100

52 31.1 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.06

2000

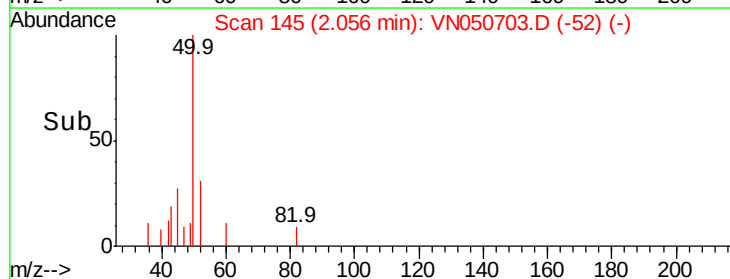
1500

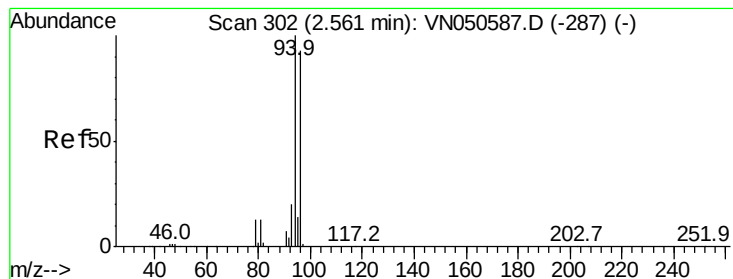
1000

500

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 304

Delta R.T. 0.01 min

Lab File: VN050703.D

Acq: 16 Aug 2018 15:56

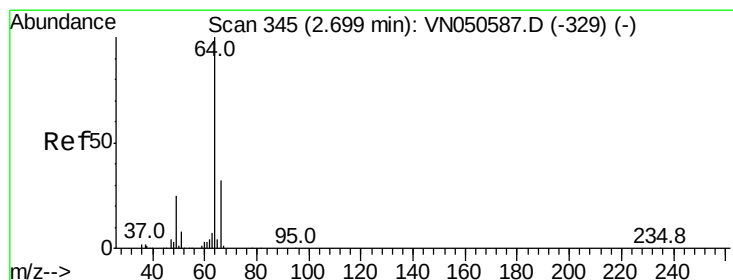
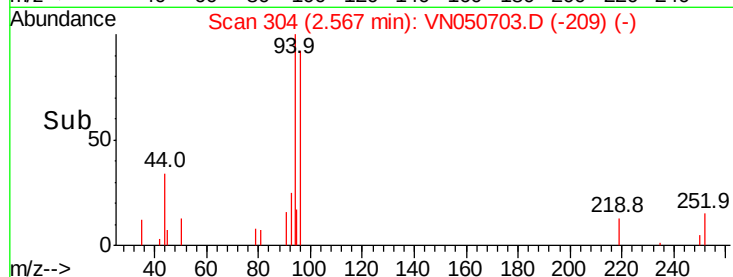
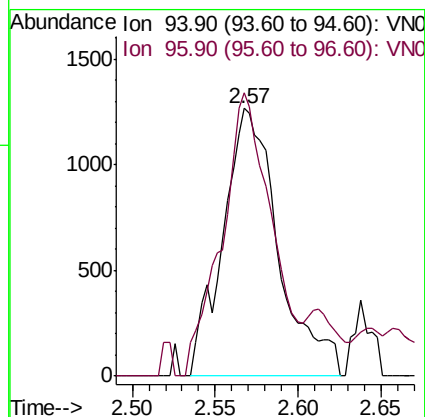
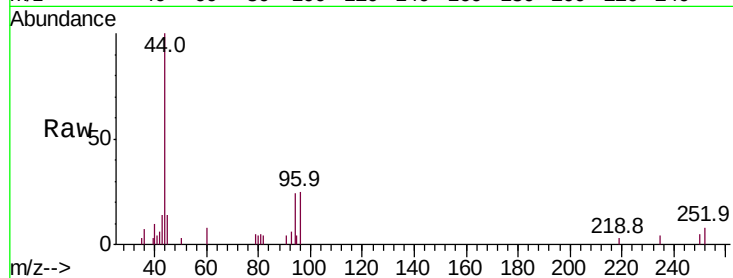
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 94 Resp: 2959

Ion Ratio Lower Upper

94 100

96 93.1 74.0 111.0



#6

Chloroethane

Concen: Below Cal

RT: 2.70 min Scan# 346

Delta R.T. 0.00 min

Lab File: VN050703.D

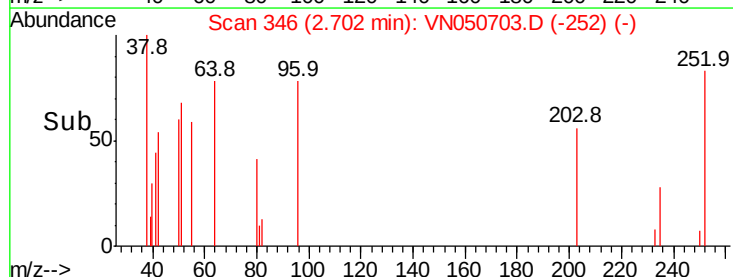
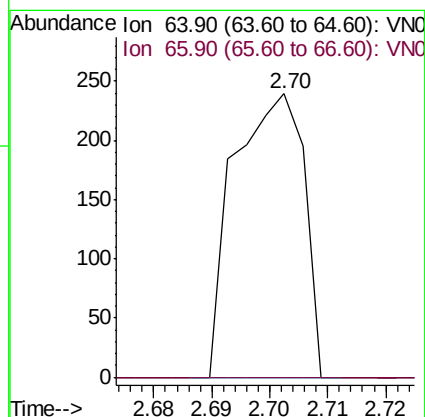
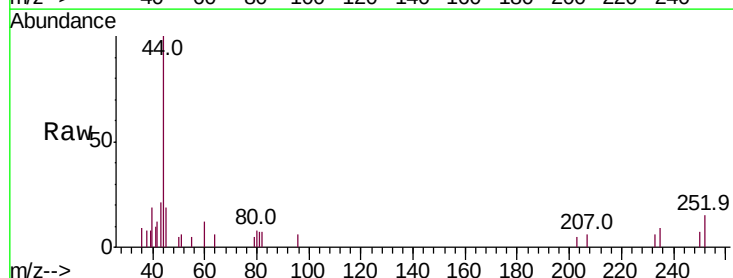
Acq: 16 Aug 2018 15:56

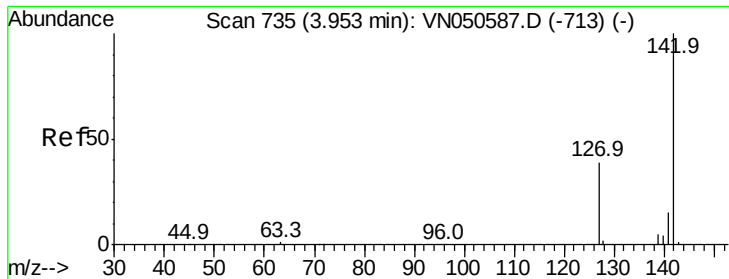
Tgt Ion: 64 Resp: 200

Ion Ratio Lower Upper

64 100

66 0.0 25.7 38.5#

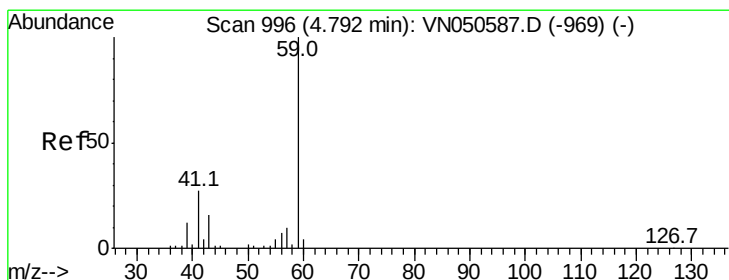
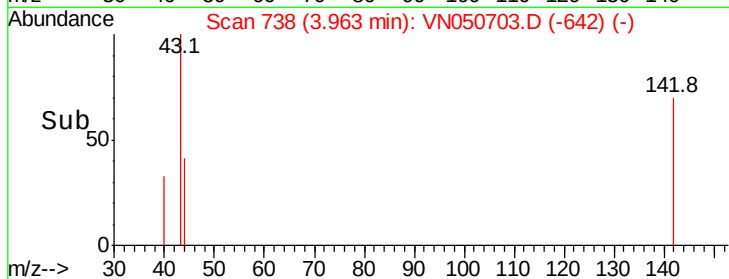
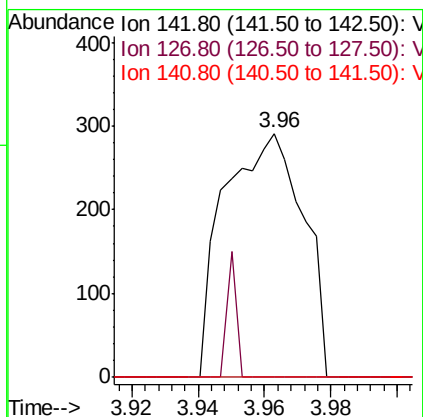
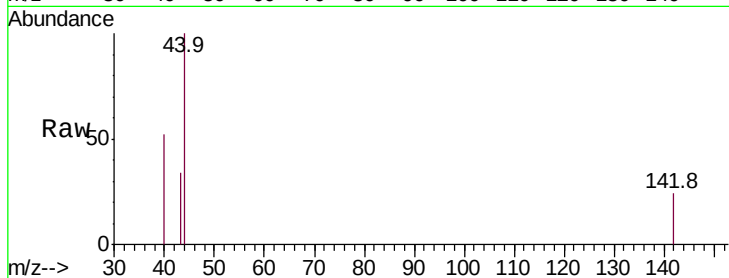




#10
Methyl Iodide
Concen: 7.030 ug/l
RT: 3.96 min Scan# 738
Delta R.T. 0.01 min
Lab File: VN050703.D
Acq: 16 Aug 2018 15:56

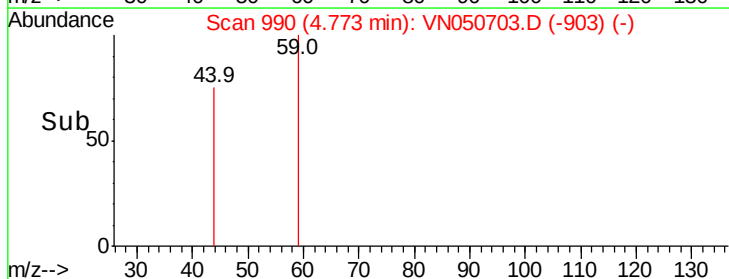
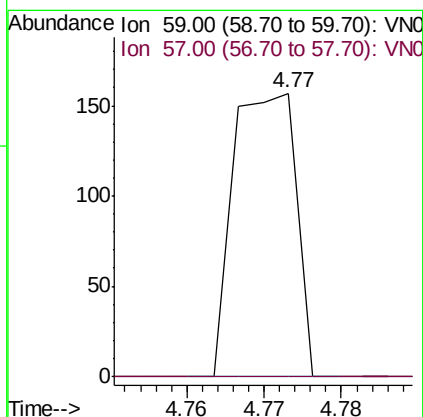
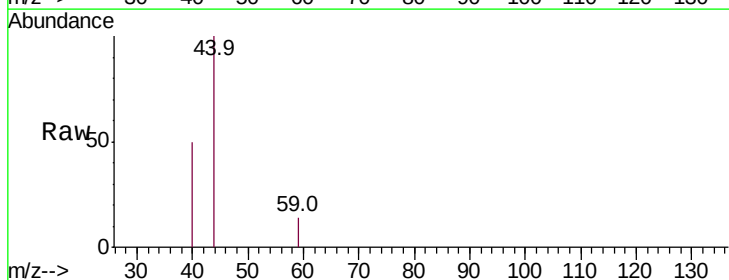
Instrument :
MSVOA_N
ClientSampled :

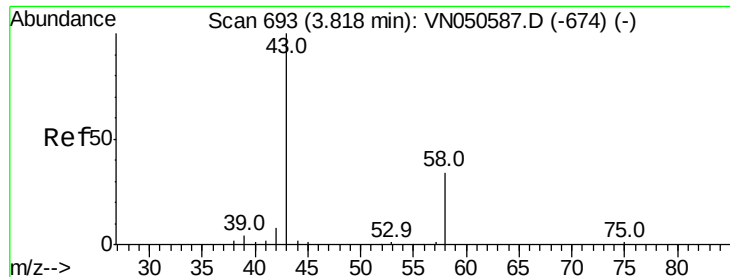
Tot Ion:142 Resp: 483
Ion Ratio Lower Upper
142 100
127 6.0 32.6 49.0#
141 0.0 11.5 17.3#



#11
Tert butyl alcohol
Concen: 0.213 ug/l
RT: 4.77 min Scan# 990
Delta R.T. -0.02 min
Lab File: VN050703.D
Acq: 16 Aug 2018 15:56

Tgt Ion: 59 Resp: 89
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#





#16

Acetone

Concen: 9.958 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.01 min

Lab File: VN050703.D

Acq: 16 Aug 2018 15:56

Instrument :

MSVOA_N

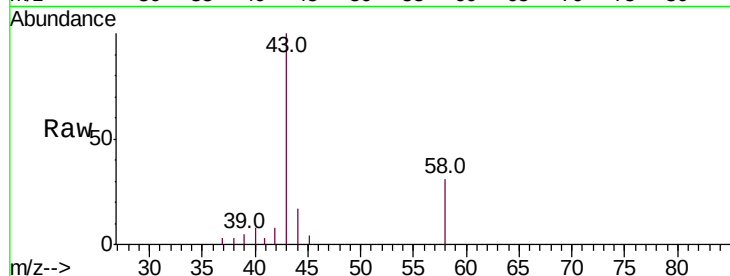
ClientSampled :

Tot Ion: 43 Resp: 21639

Ion Ratio Lower Upper

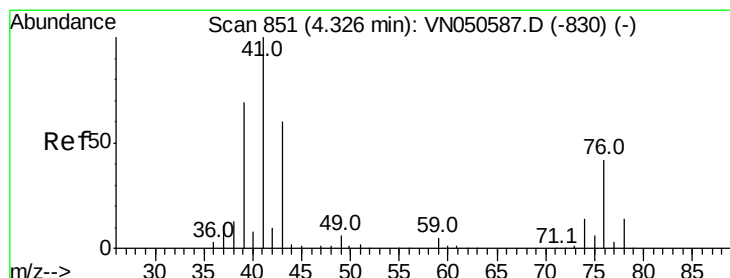
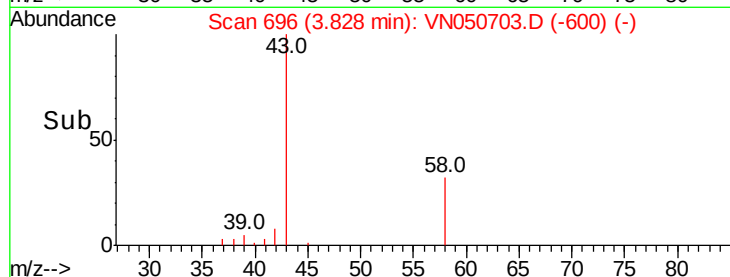
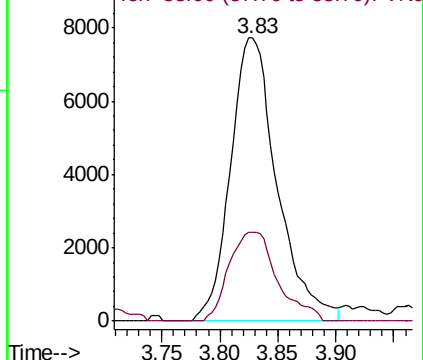
43 100

58 31.2 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 1.793 ug/l

RT: 4.34 min Scan# 855

Delta R.T. 0.01 min

Lab File: VN050703.D

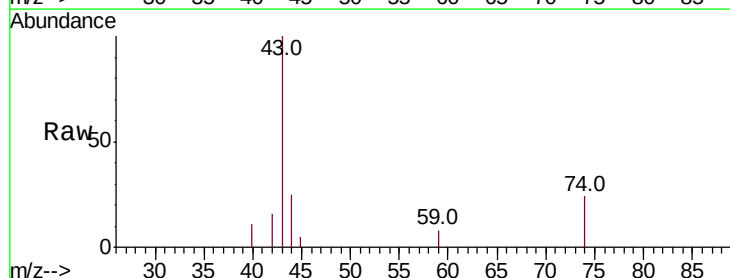
Acq: 16 Aug 2018 15:56

Tgt Ion: 43 Resp: 14759

Ion Ratio Lower Upper

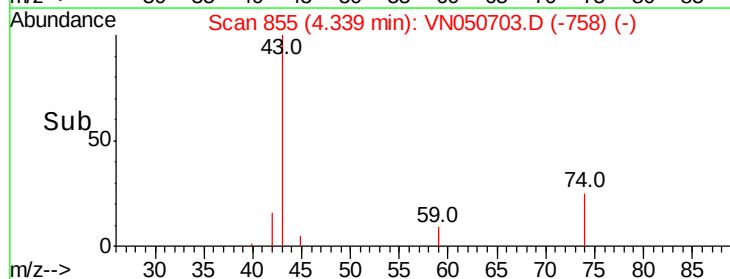
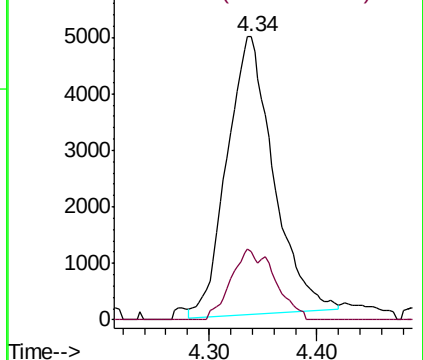
43 100

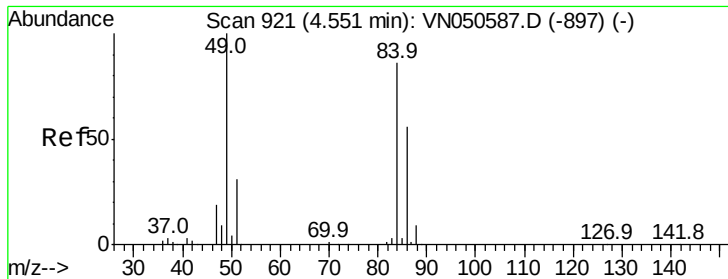
74 14.5 19.7 29.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

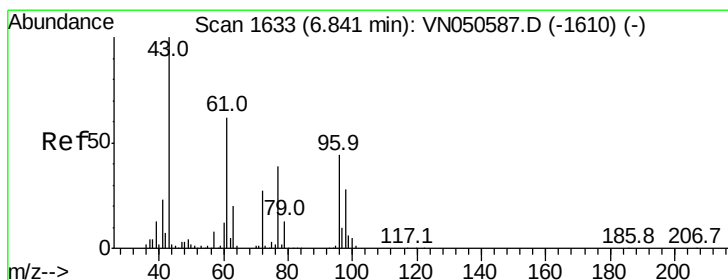
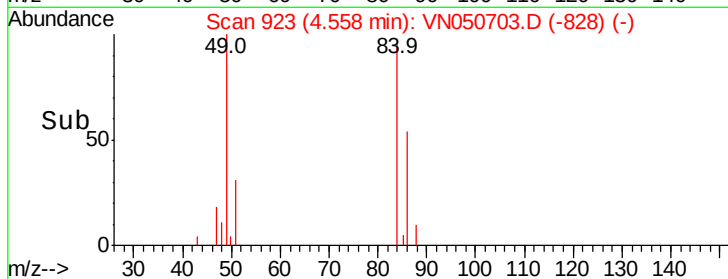
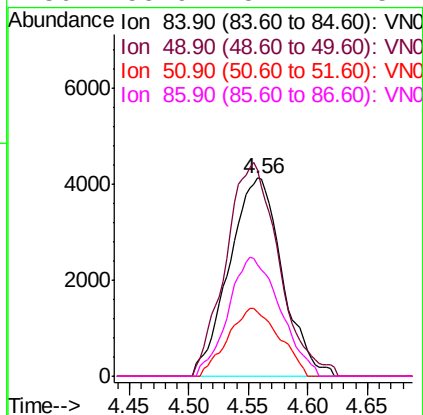
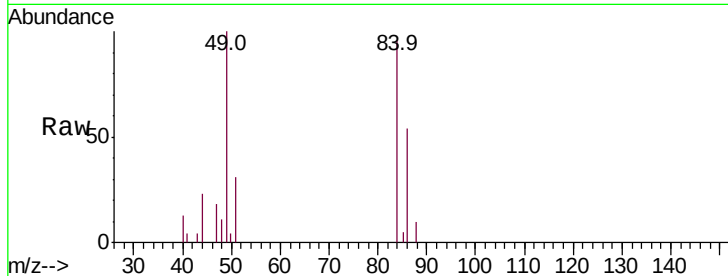




#20
Methvlene Chloride
Concen: 0.491 ug/l
RT: 4.56 min Scan# 923
Delta R.T. 0.01 min
Lab File: VN050703.D
Acq: 16 Aug 2018 15:56

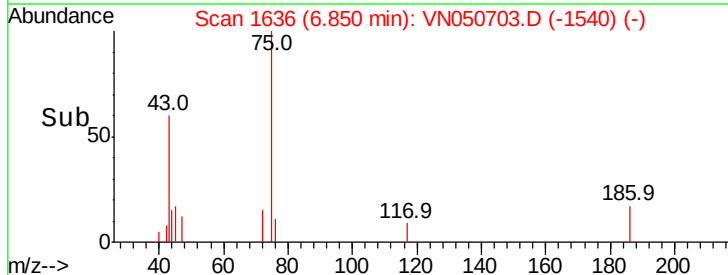
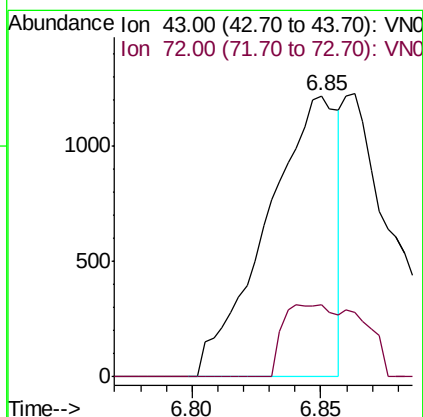
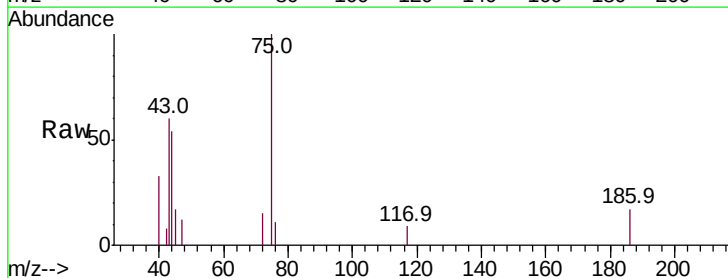
Instrument :
MSVOA_N
ClientSampleId :

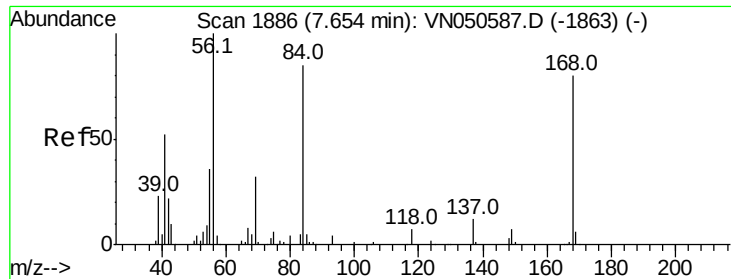
Tot Ion:	84	Resp:	12703
Ion	Ratio	Lower	Upper
84	100		
49	103.8	92.6	138.8
51	32.3	28.6	43.0
86	55.9	52.2	78.2



#25
2-Butanone
Concen: 0.744 ug/l
RT: 6.85 min Scan# 1636
Delta R.T. 0.01 min
Lab File: VN050703.D
Acq: 16 Aug 2018 15:56

Tgt Ion:	43	Resp:	2330
Ion	Ratio	Lower	Upper
43	100		
72	25.7	21.8	32.6

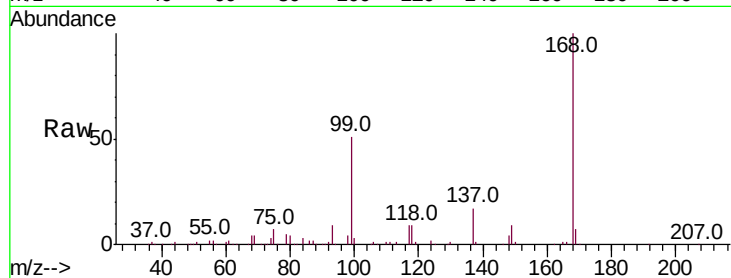




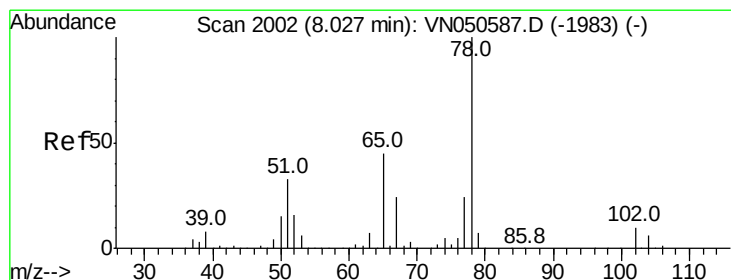
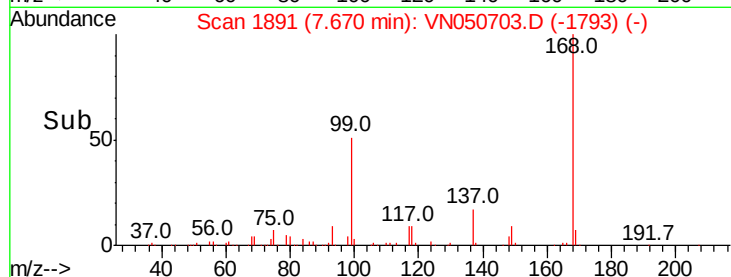
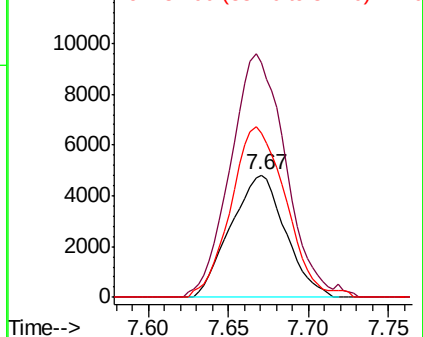
#31
Cyclohexane
Concen: 0.637 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. 0.02 min
Lab File: VN050703.D
Acq: 16 Aug 2018 15:56

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 11321
Ion Ratio Lower Upper
56 100
69 187.7 25.8 38.6#
84 134.4 67.8 101.6#

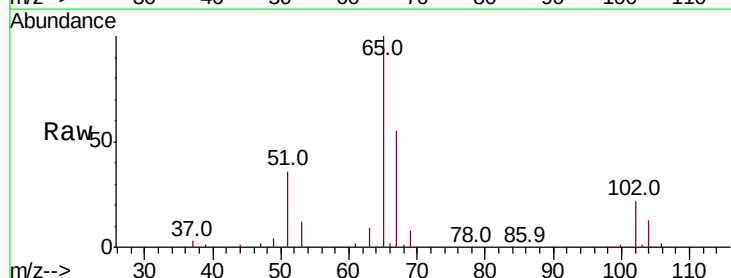


Abundance Ion 56.00 (55.70 to 56.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 84.00 (83.70 to 84.70): VNO

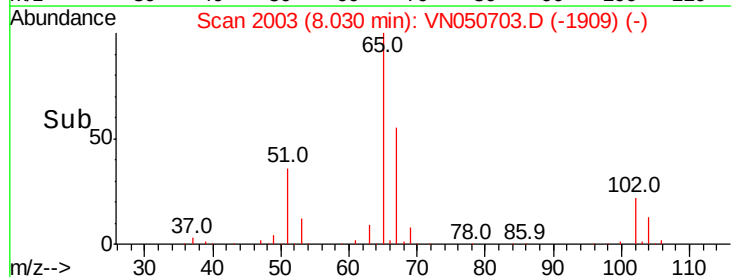
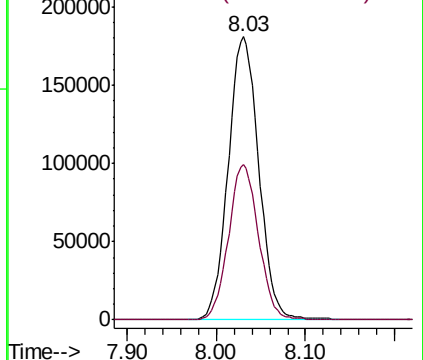


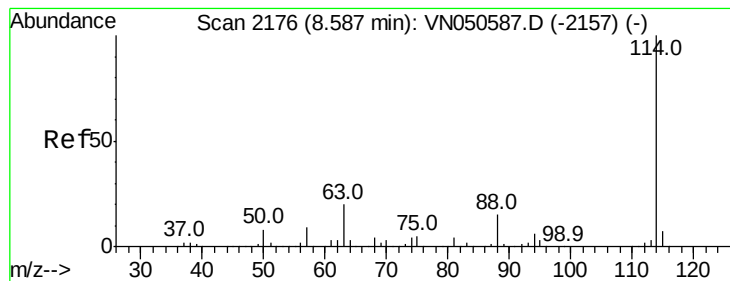
#33
1,2-Dichloroethane-d4
Concen: 56.288 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN050703.D
Acq: 16 Aug 2018 15:56

Tgt Ion: 65 Resp: 429805
Ion Ratio Lower Upper
65 100
67 54.1 0.0 109.8



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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VN050703.D

Acq: 16 Aug 2018 15:56

Instrument :

MSVOA_N

ClientSampleId :

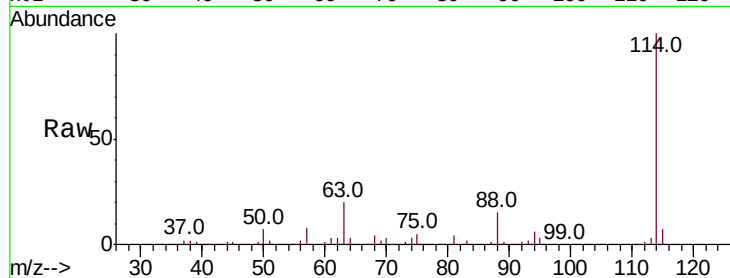
Tot Ion:114 Resp: 1029537

Ion Ratio Lower Upper

114 100

63 19.5 0.0 40.0

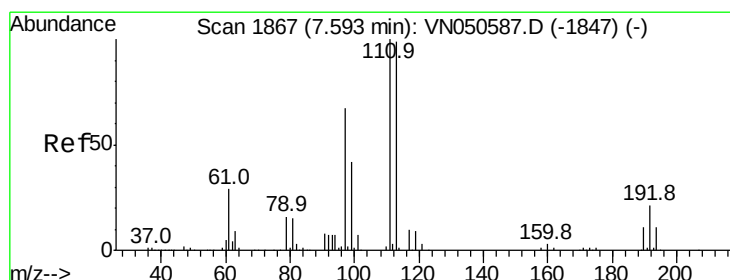
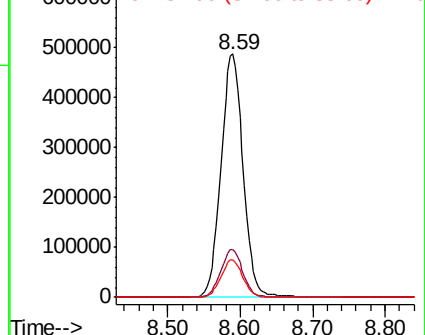
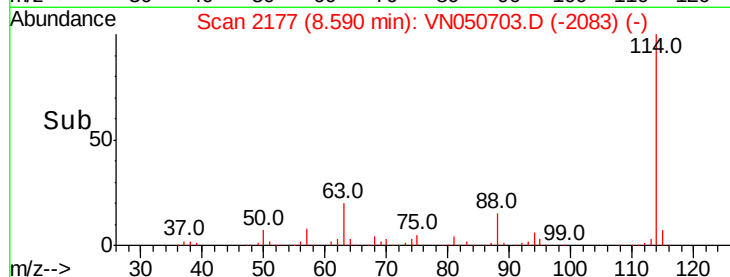
88 15.5 0.0 30.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 48.267 ug/l

RT: 7.59 min Scan# 1867

Delta R.T. -0.00 min

Lab File: VN050703.D

Acq: 16 Aug 2018 15:56

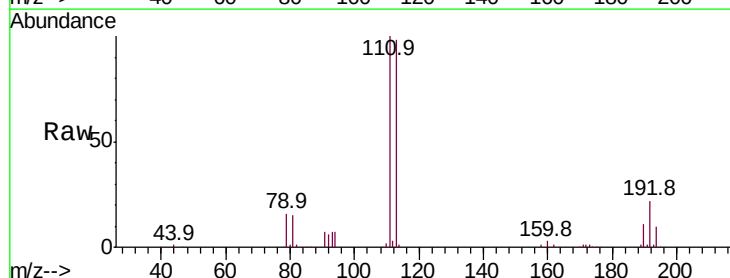
Tgt Ion:113 Resp: 396725

Ion Ratio Lower Upper

113 100

111 101.9 81.0 121.6

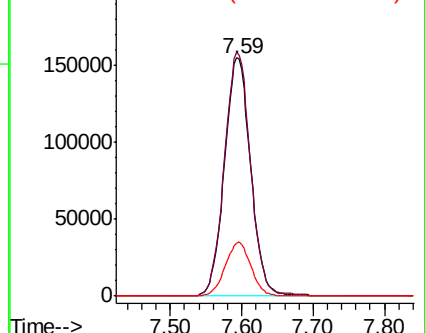
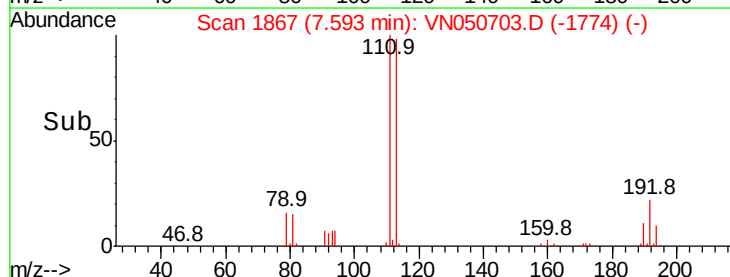
192 22.1 17.6 26.4

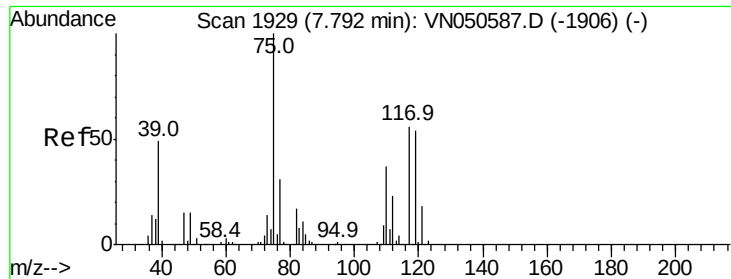


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

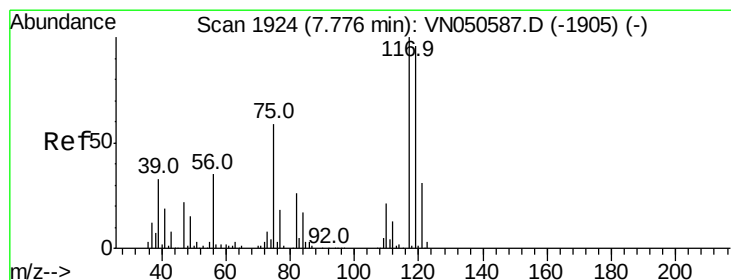
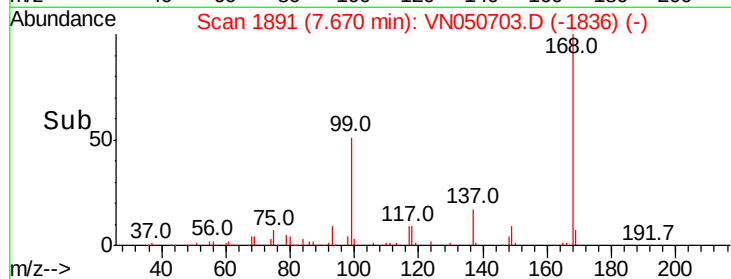
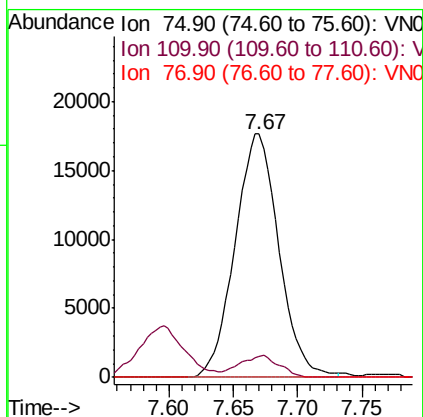
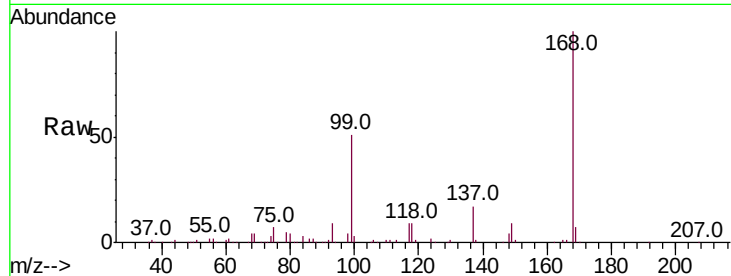




#36
 1,1-Dichloropropene
 Concen: 3.651 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.12 min
 Lab File: VN050703.D
 Acq: 16 Aug 2018 15:56

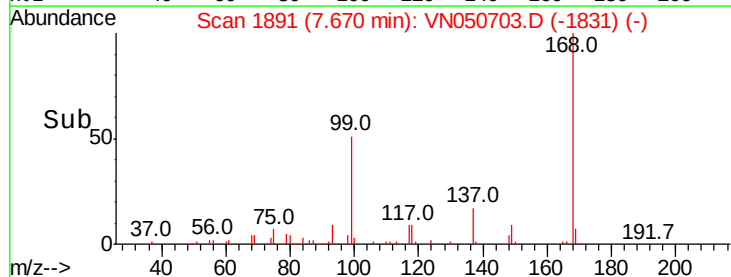
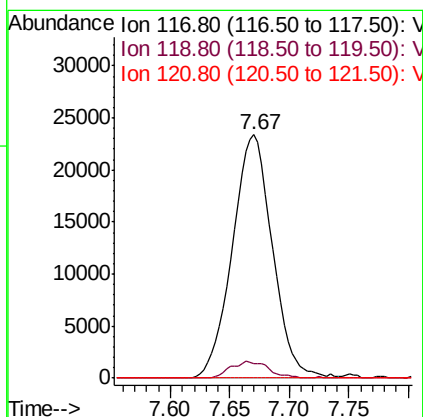
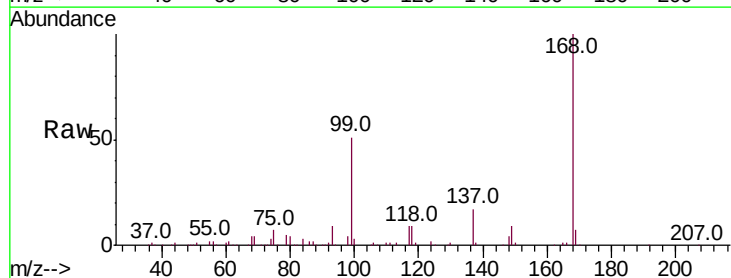
Instrument :
 MSVOA_N
 ClientSampled :

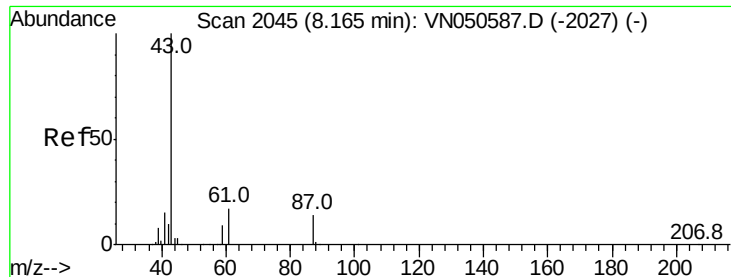
Tot Ion: 75 Resp: 41840
 Ion Ratio Lower Upper
 75 100
 110 8.0 18.3 54.9#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 4.592 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.11 min
 Lab File: VN050703.D
 Acq: 16 Aug 2018 15:56

Tgt Ion: 117 Resp: 54594
 Ion Ratio Lower Upper
 117 100
 119 5.9 76.6 115.0#
 121 0.0 25.0 37.6#





#43

Isopropyl Acetate

Concen: 27.147 ug/l

RT: 8.17 min Scan# 2047

Delta R.T. 0.01 min

Lab File: VN050703.D

Acq: 16 Aug 2018 15:56

Instrument :

MSVOA_N

ClientSampleId :

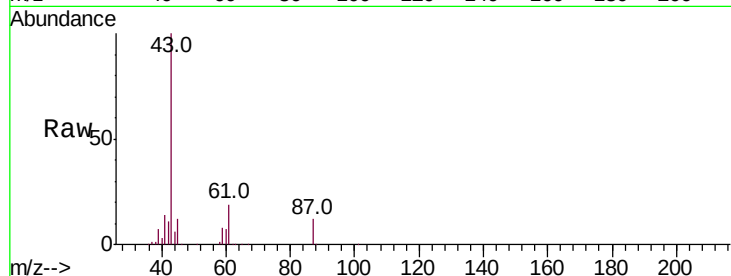
Tot Ion: 43 Resp: 320490

Ion Ratio Lower Upper

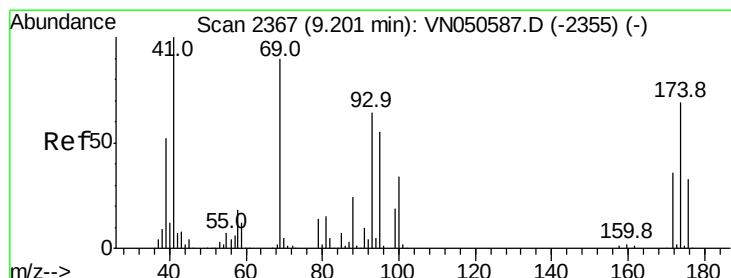
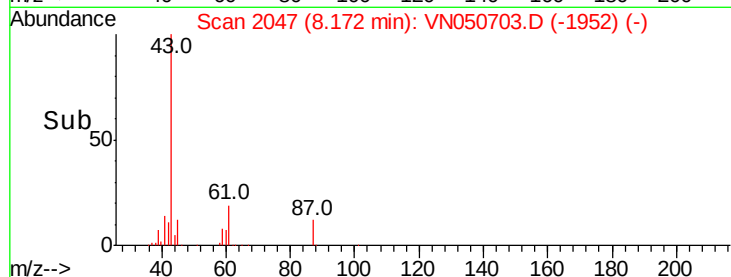
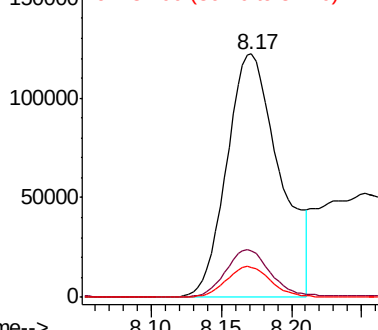
43 100

61 17.0 16.2 24.2

87 10.8 10.9 16.3#



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



#48

Methyl methacrylate

Concen: 1.179 ug/l

RT: 9.18 min Scan# 2362

Delta R.T. -0.02 min

Lab File: VN050703.D

Acq: 16 Aug 2018 15:56

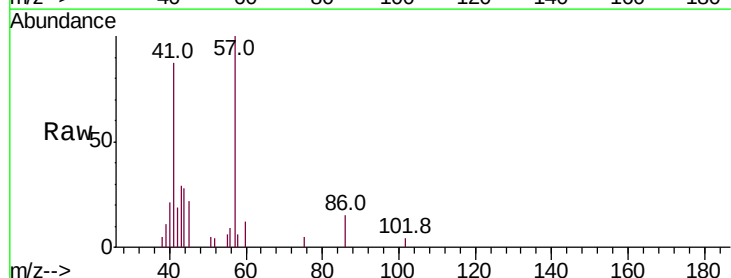
Tgt Ion: 41 Resp: 7004

Ion Ratio Lower Upper

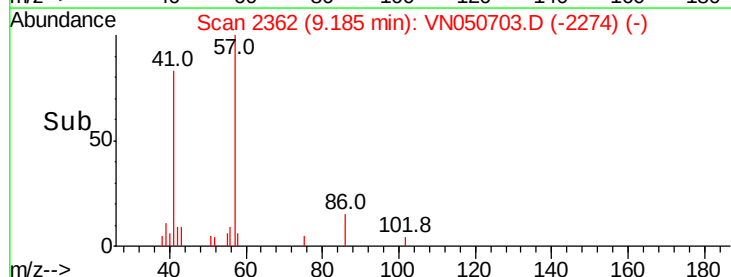
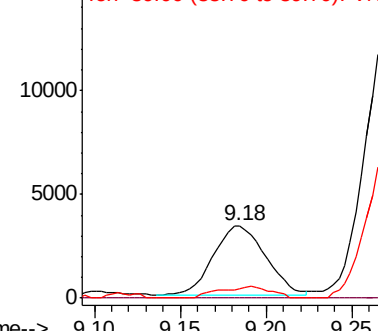
41 100

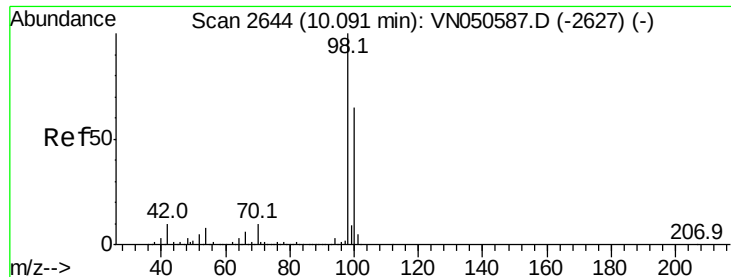
69 0.0 73.4 110.0#

39 16.4 43.0 64.6#



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 39.00 (38.70 to 39.70): VNO

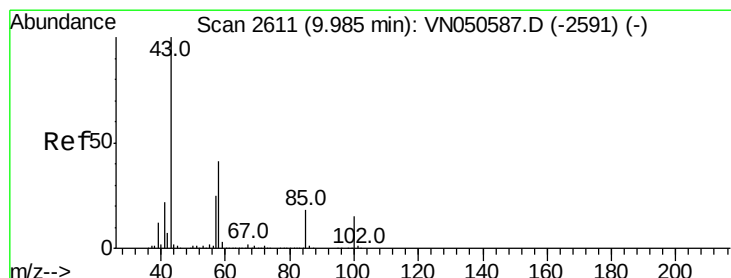
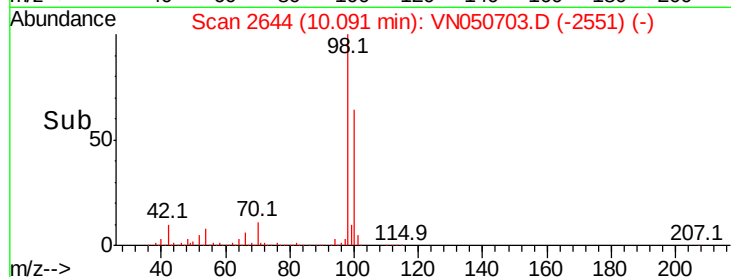
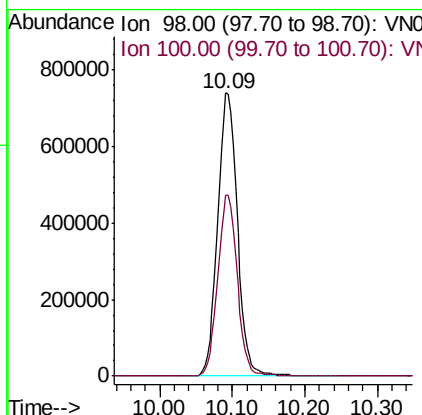
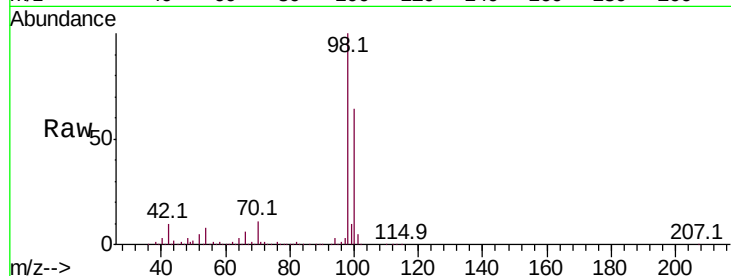




#50
Toluene-d8
Concen: 45.163 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VN050703.D
Acq: 16 Aug 2018 15:56

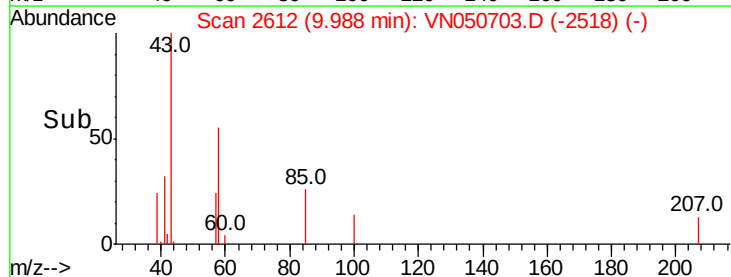
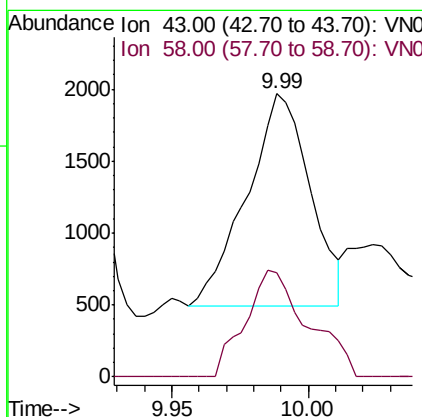
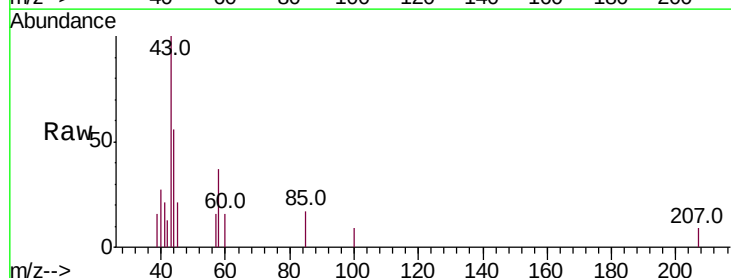
Instrument :
MSVOA_N
ClientSampleId :

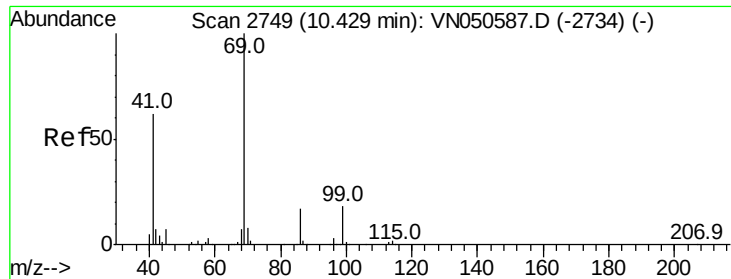
Tot Ion: 98 Resp: 1397078
Ion Ratio Lower Upper
98 100
100 63.3 51.8 77.8



#51
4-Methyl-2-Pentanone
Concen: 0.298 ug/l
RT: 9.99 min Scan# 2612
Delta R.T. 0.00 min
Lab File: VN050703.D
Acq: 16 Aug 2018 15:56

Tgt Ion: 43 Resp: 2382
Ion Ratio Lower Upper
43 100
58 49.5 32.5 48.7#





#56

Ethyl methacrylate

Concen: 1.915 ug/l

RT: 10.31 min Scan# 2712

Delta R.T. -0.12 min

Lab File: VN050703.D

Acq: 16 Aug 2018 15:56

Instrument :

MSVOA_N

ClientSampled :

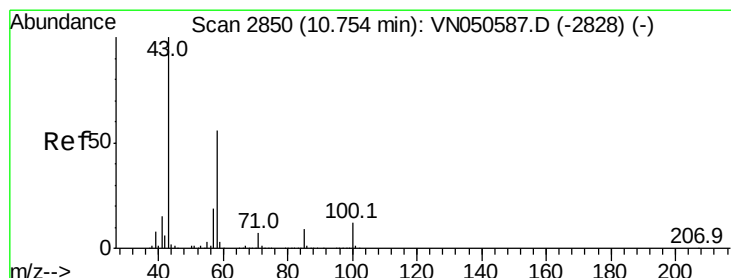
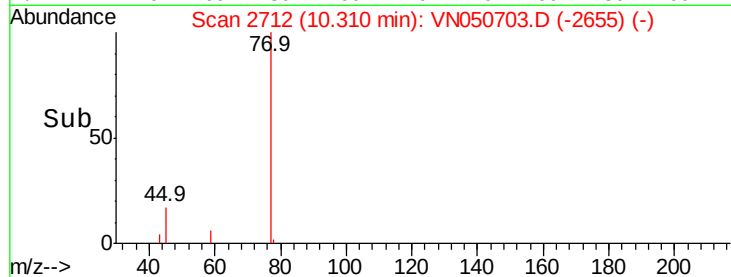
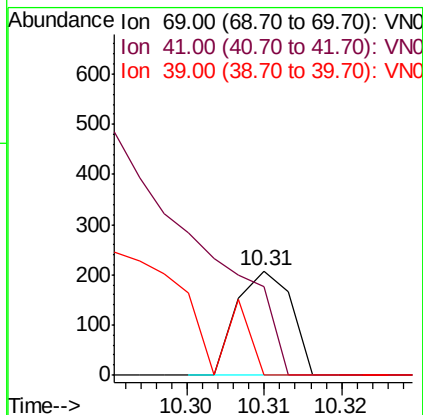
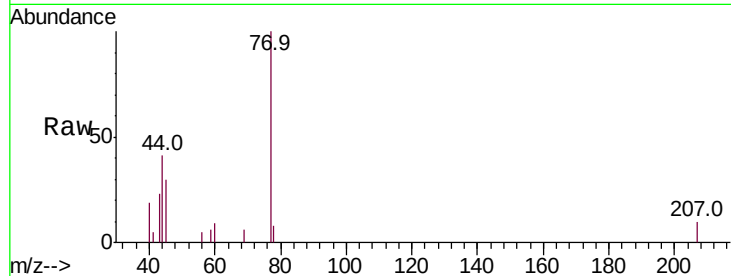
Tot Ion: 69 Resp: 102

Ion Ratio Lower Upper

69 100

41 0.0 49.7 74.5#

39 0.0 24.2 36.2#



#59

2-Hexanone

Concen: 3.864 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050703.D

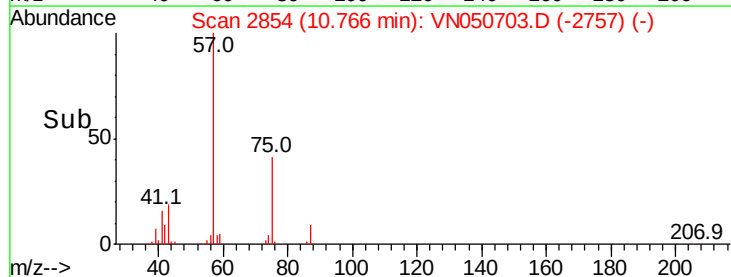
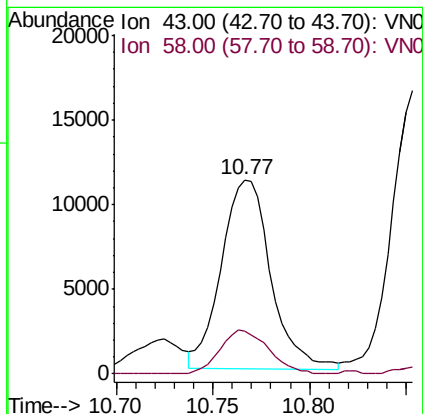
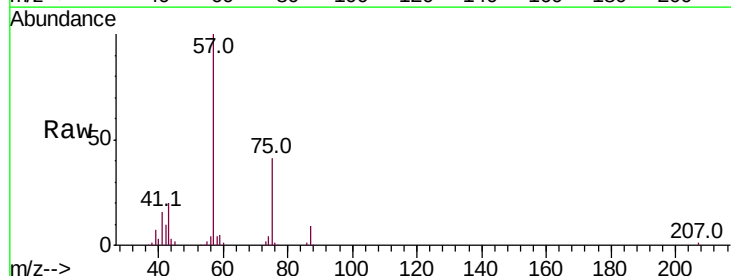
Acq: 16 Aug 2018 15:56

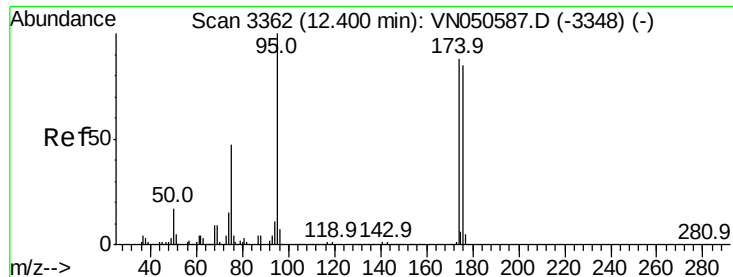
Tgt Ion: 43 Resp: 19914

Ion Ratio Lower Upper

43 100

58 22.9 28.0 84.0#





#62

4-Bromofluorobenzene

Concen: 37.287 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050703.D

Acq: 16 Aug 2018 15:56

Instrument :

MSVOA_N

ClientSampleId :

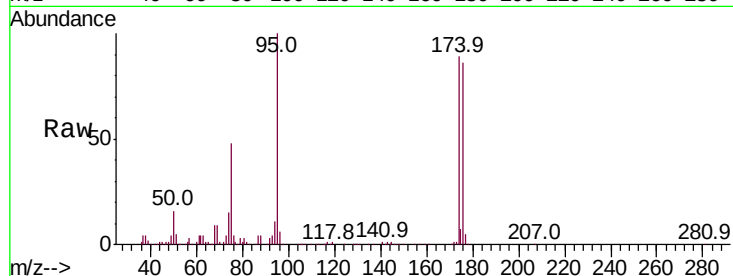
Tot Ion: 95 Resp: 381057

Ion Ratio Lower Upper

95 100

174 91.0 0.0 177.8

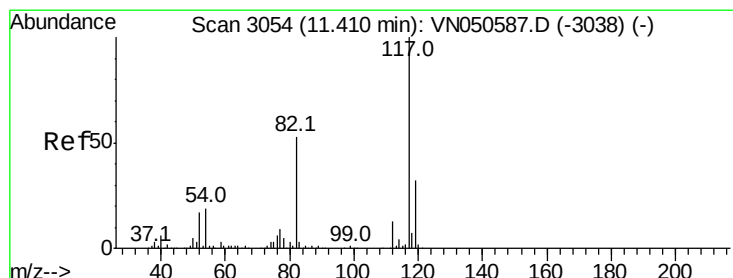
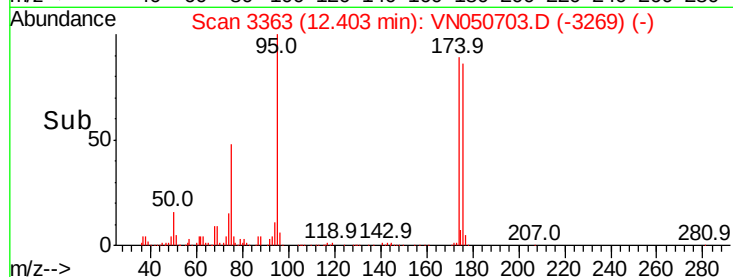
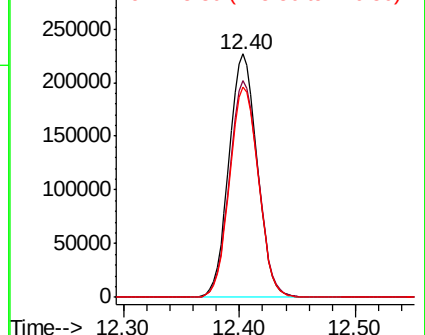
176 88.1 0.0 175.0



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. -0.00 min

Lab File: VN050703.D

Acq: 16 Aug 2018 15:56

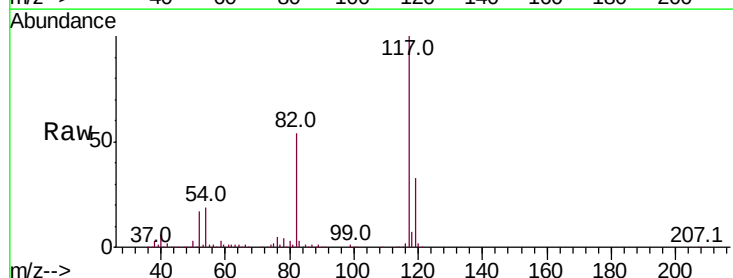
Tgt Ion: 117 Resp: 878932

Ion Ratio Lower Upper

117 100

82 53.9 42.4 63.6

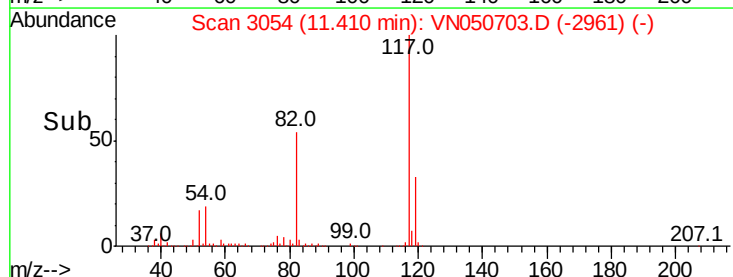
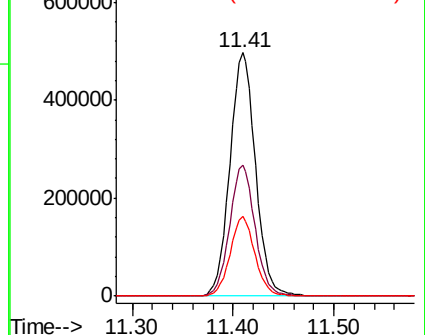
119 32.6 25.8 38.8

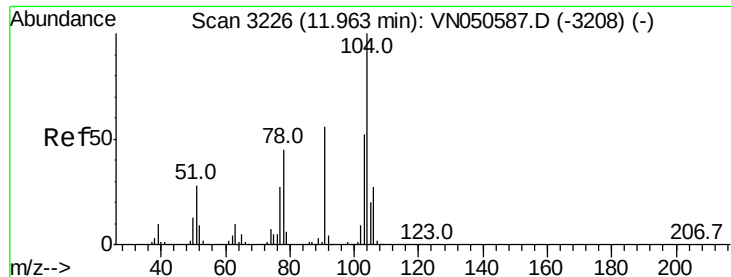


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#70

Stvrene

Concen: 0.955 ug/l

RT: 11.97 min Scan# 3227

Delta R.T. 0.00 min

Lab File: VN050703.D

Acq: 16 Aug 2018 15:56

Instrument :

MSVOA_N

ClientSampleId :

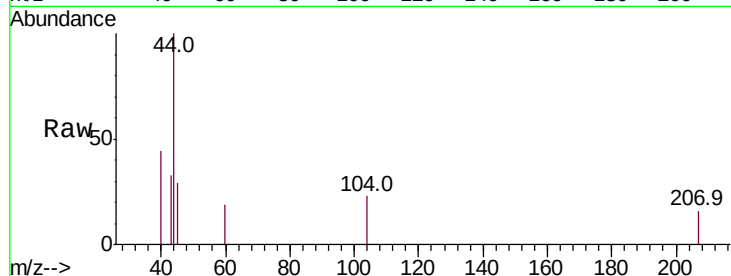
Tot Ion:104 Resp: 332

Ion Ratio Lower Upper

104 100

78 0.0 39.1 58.7#

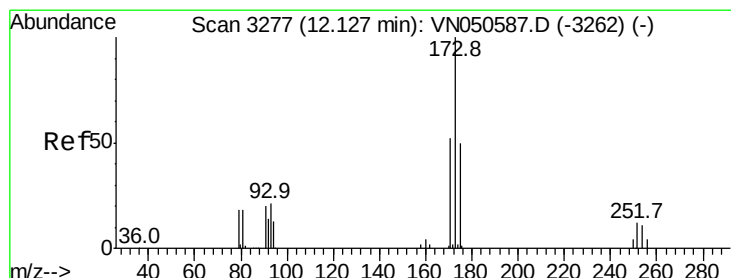
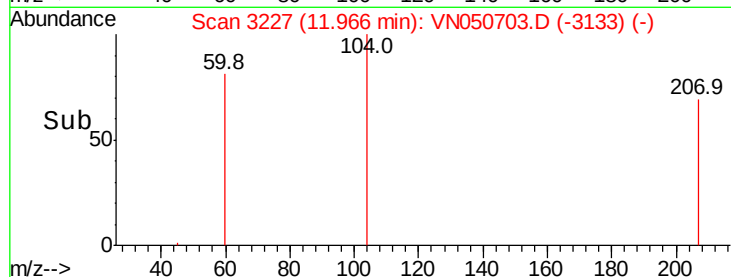
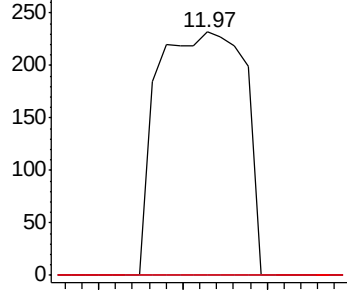
103 0.0 44.9 67.3#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN

Ion 103.00 (102.70 to 103.70): V



#71

Bromoform

Concen: 0.624 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.28 min

Lab File: VN050703.D

Acq: 16 Aug 2018 15:56

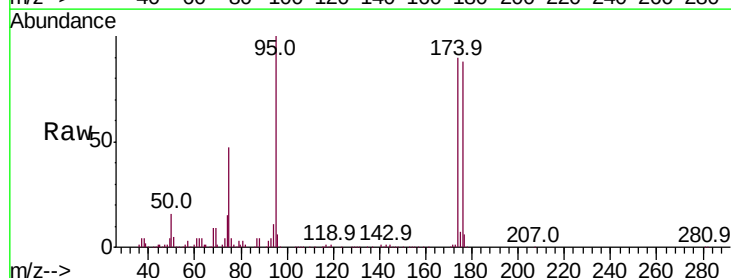
Tgt Ion:173 Resp: 3393

Ion Ratio Lower Upper

173 100

175 633.9 24.4 73.2#

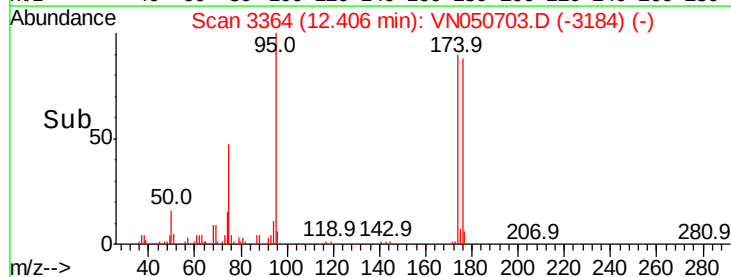
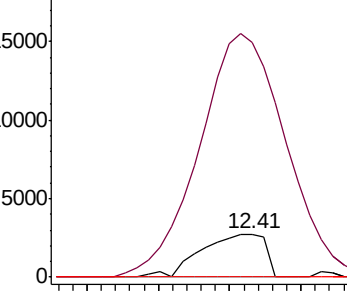
254 0.0 0.0 0.0

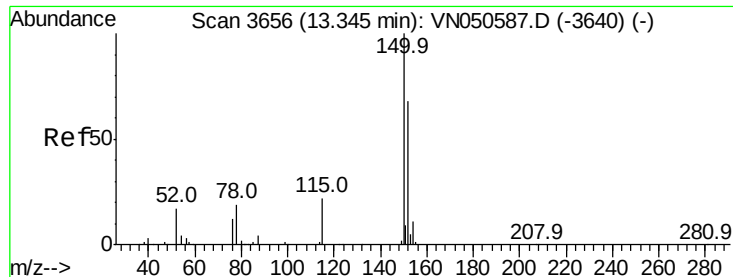


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. -0.00 min

Lab File: VN050703.D

Acq: 16 Aug 2018 15:56

Instrument :

MSVOA_N

ClientSampleId :

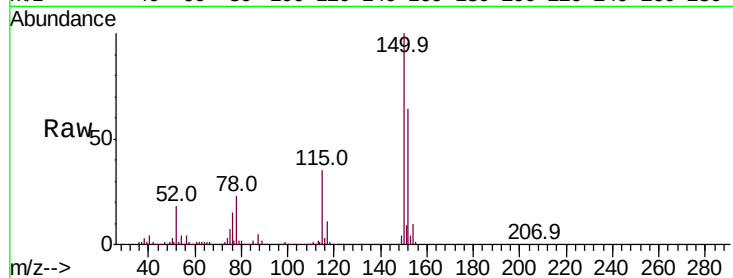
Tot Ion:152 Resp: 311006

Ion Ratio Lower Upper

152 100

115 55.7 28.1 84.2

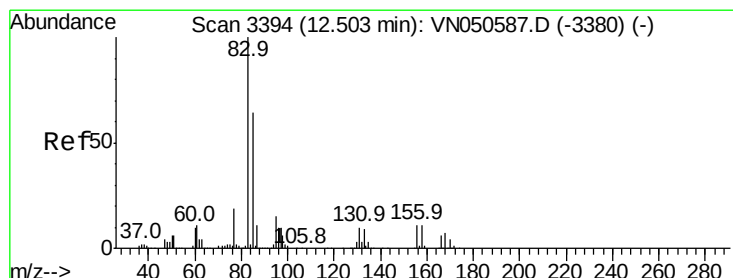
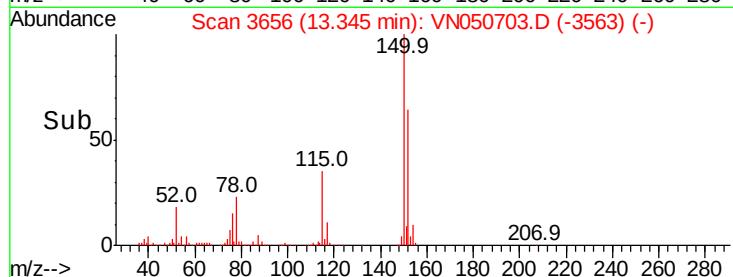
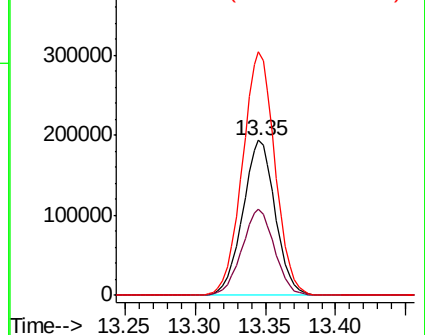
150 157.9 0.0 347.8



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



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3362

Delta R.T. -0.10 min

Lab File: VN050703.D

Acq: 16 Aug 2018 15:56

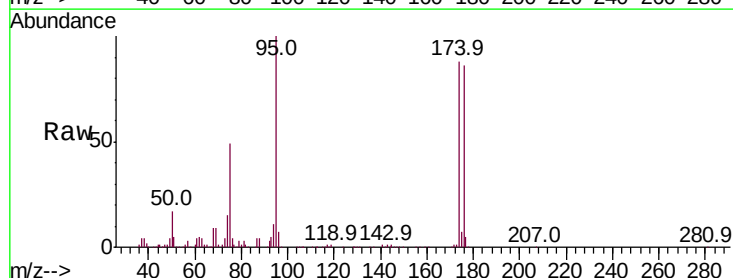
Tgt Ion: 83 Resp: 113

Ion Ratio Lower Upper

83 100

131 350.4 5.3 15.9#

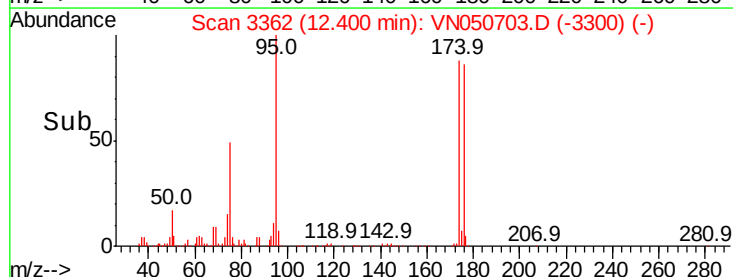
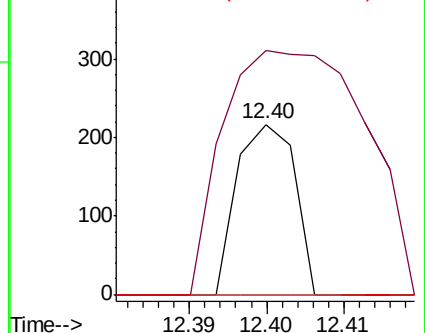
85 0.0 32.1 96.5#

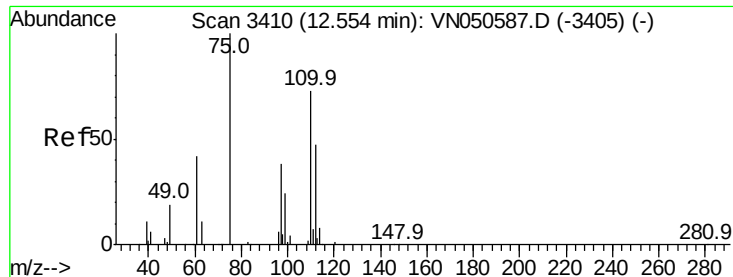


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 36.076 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050703.D

Acq: 16 Aug 2018 15:56

Instrument :

MSVOA_N

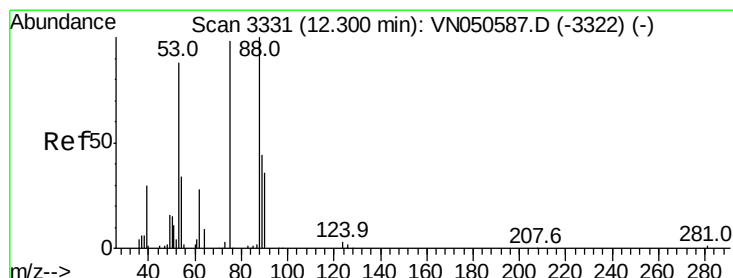
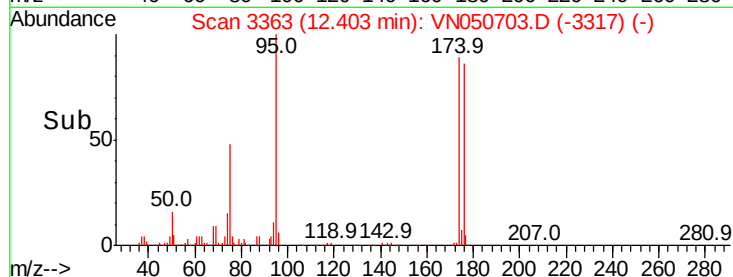
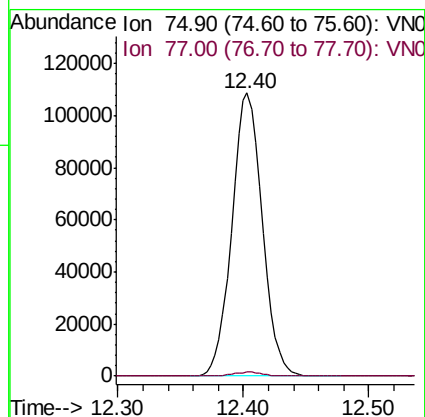
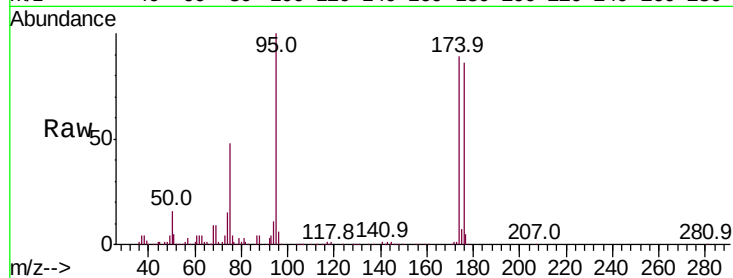
ClientSampled :

Tot Ion: 75 Resp: 182714

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 130.612 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050703.D

Acq: 16 Aug 2018 15:56

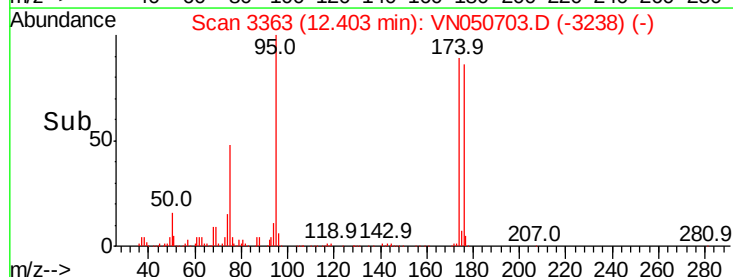
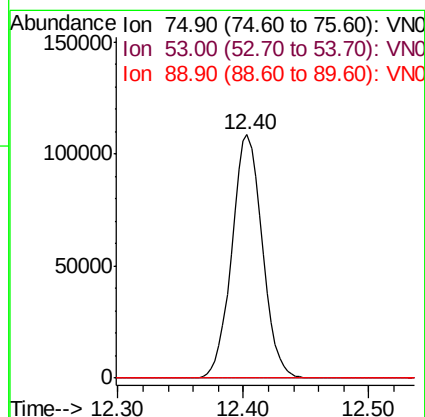
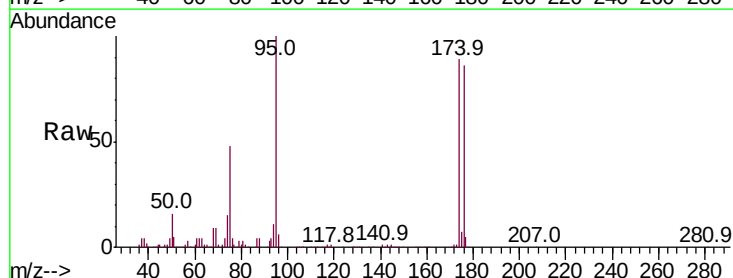
Tgt Ion: 75 Resp: 182714

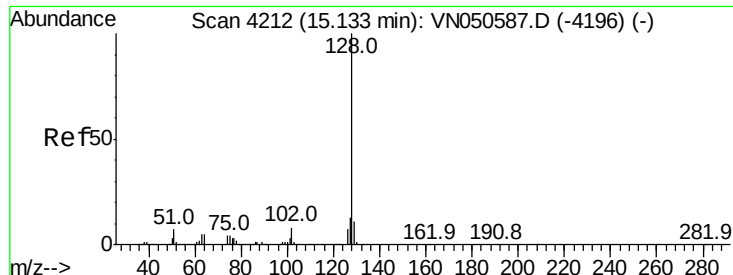
Ion Ratio Lower Upper

75 100

53 0.1 72.2 108.2#

89 0.0 36.3 54.5#





#95

Naphthalene

Concen: 3.863 ug/l

RT: 15.14 min Scan# 4215

Delta R.T. 0.01 min

Lab File: VN050703.D

Acq: 16 Aug 2018 15:56

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion:128 Resp: 30

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.5 12.7#

