

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081718\
 Data File : VN050754.D
 Acq On : 18 Aug 2018 6:13
 Operator : MD\SY
 Sample : J4521-12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 18 06:33:11 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	598911	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	988048	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	848894	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	299995	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	411195	54.47	ug/l	0.00
Spiked Amount			Recovery	=	108.94%	
35) Dibromofluoromethane	7.59	113	388247	49.22	ug/l	0.00
Spiked Amount			Recovery	=	98.44%	
50) Toluene-d8	10.09	98	1354376	45.62	ug/l	0.00
Spiked Amount			Recovery	=	91.24%	
62) 4-Bromofluorobenzene	12.40	95	366726	37.39	ug/l	0.00
Spiked Amount			Recovery	=	74.78%	

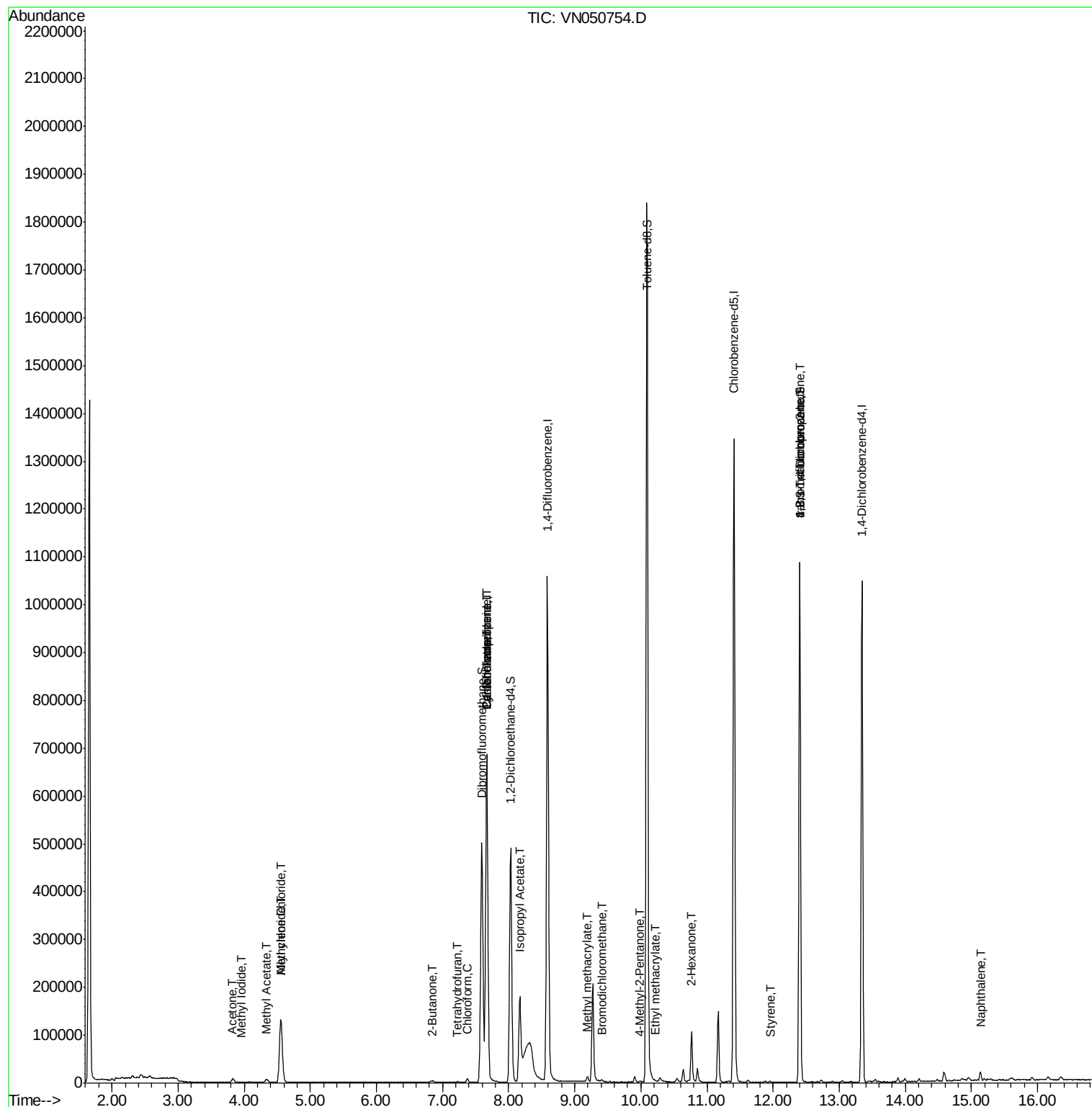
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	3318	Below Cal	#	87
5) Bromomethane	2.57	94	2775	Below Cal		96
6) Chloroethane	2.73	64	101	Below Cal	#	43
10) Methyl Iodide	3.96	142	508	7.04	ug/l	# 42
14) Allyl chloride	4.56	41	3940	0.39	ug/l	# 25
16) Acetone	3.82	43	13341	5.66	ug/l	97
18) Methyl Acetate	4.34	43	13757	1.63	ug/l	98
20) Methylene Chloride	4.55	84	103821	13.54	ug/l	96
25) 2-Butanone	6.85	43	1687	0.55	ug/l	100
29) Tetrahydrofuran	7.22	42	1177	0.73	ug/l	# 76
30) Chloroform	7.37	83	8358	0.62	ug/l	# 93
31) Cyclohexane	7.67	56	10683	0.59	ug/l	# 1
36) 1,1-Dichloropropene	7.67	75	42179	3.83	ug/l	# 48
38) Carbon Tetrachloride	7.67	117	53095	4.65	ug/l	# 16
43) Isopropyl Acetate	8.17	43	225643	19.92	ug/l	97
47) Bromodichloromethane	9.40	83	2382	0.21	ug/l	# 96
48) Methyl methacrylate	9.18	41	6562	1.15	ug/l	# 19
51) 4-Methyl-2-Pentanone	9.99	43	1715	0.22	ug/l	92
56) Ethyl methacrylate	10.23	69	1683	2.07	ug/l	# 44
59) 2-Hexanone	10.77	43	14328	2.90	ug/l	63
70) Styrene	11.97	104	115	0.95	ug/l	# 26
76) 1,2,3-Trichloropropane	12.40	75	174162	35.64	ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.40	75	174162	129.07	ug/l	# 13
95) Naphthalene	15.13	128	16207	5.16	ug/l	99

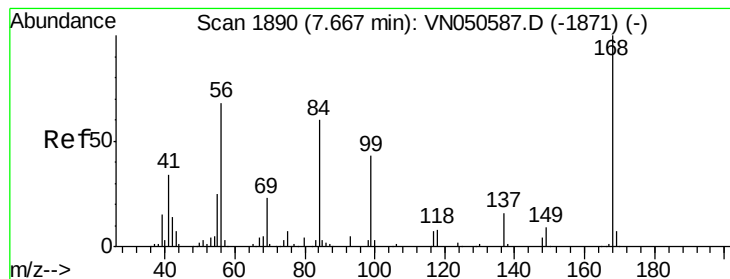
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Aug 14 08:07:08 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050754.D

Acq: 18 Aug 2018 6:13

Instrument :

MSVOA_N

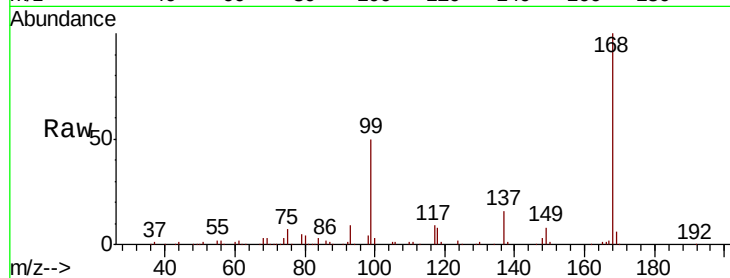
ClientSampleId :

Tot Ion:168 Resp: 598911

Ion Ratio Lower Upper

168 100

99 49.9 40.8 61.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

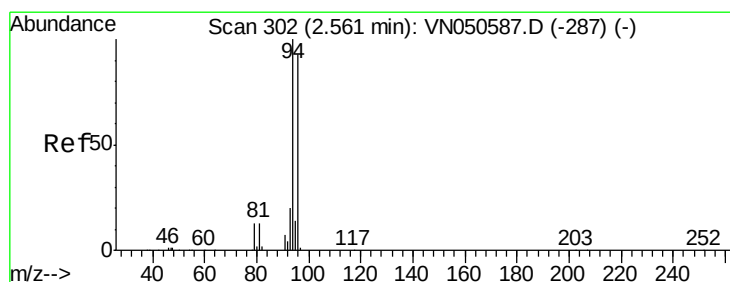
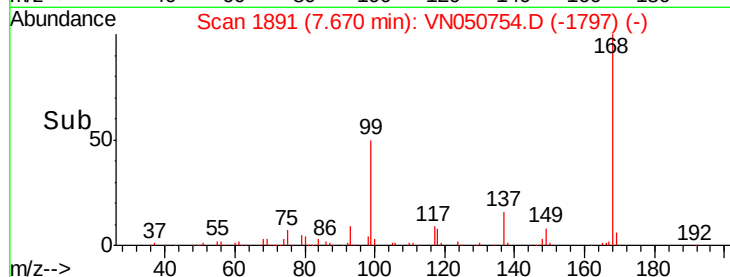
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 305

Delta R.T. 0.01 min

Lab File: VN050754.D

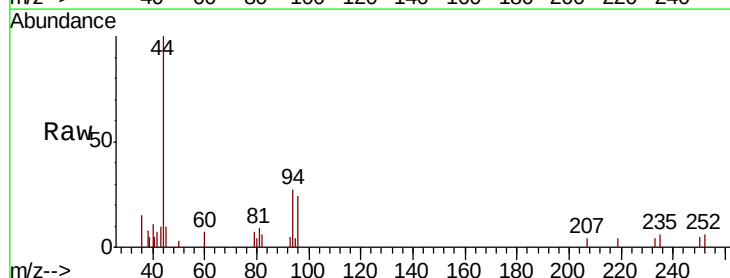
Acq: 18 Aug 2018 6:13

Tgt Ion: 94 Resp: 2775

Ion Ratio Lower Upper

94 100

96 88.3 74.0 111.0



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.57

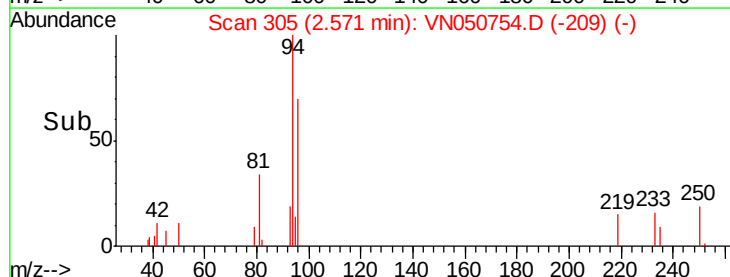
1500

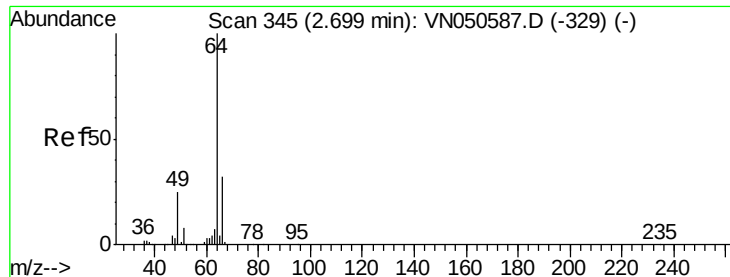
1000

500

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 2.73 min Scan# 355

Delta R.T. 0.03 min

Lab File: VN050754.D

Acq: 18 Aug 2018 6:13

Instrument :

MSVOA_N

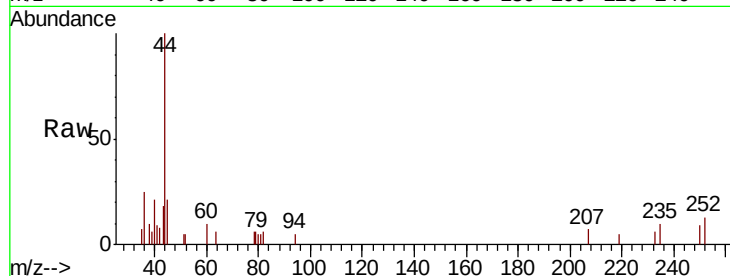
ClientSampleId :

Tot Ion: 64 Resp: 101

Ion Ratio Lower Upper

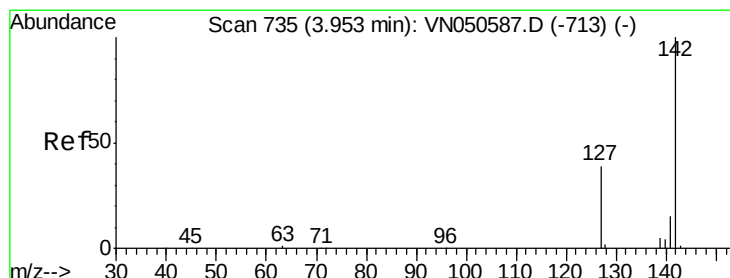
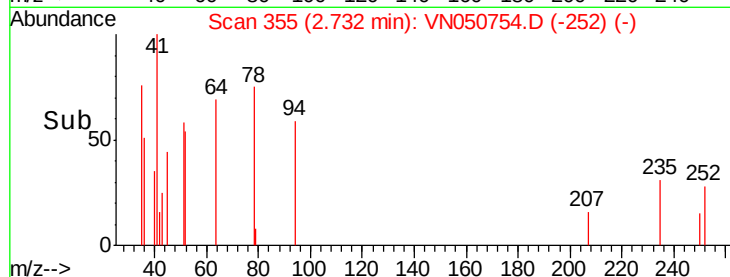
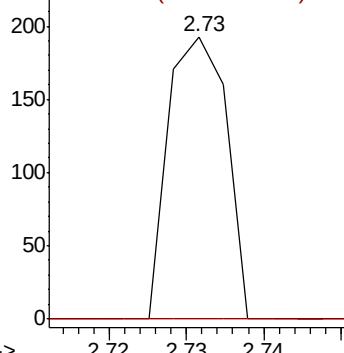
64 100

66 0.0 25.7 38.5#



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0



#10

Methyl Iodide

Concen: 7.04 ug/l

RT: 3.96 min Scan# 738

Delta R.T. 0.01 min

Lab File: VN050754.D

Acq: 18 Aug 2018 6:13

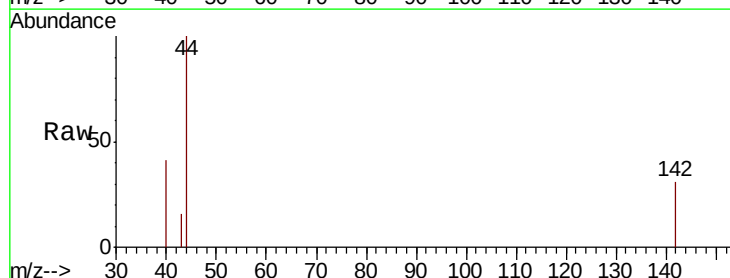
Tgt Ion: 142 Resp: 508

Ion Ratio Lower Upper

142 100

127 0.0 32.6 49.0#

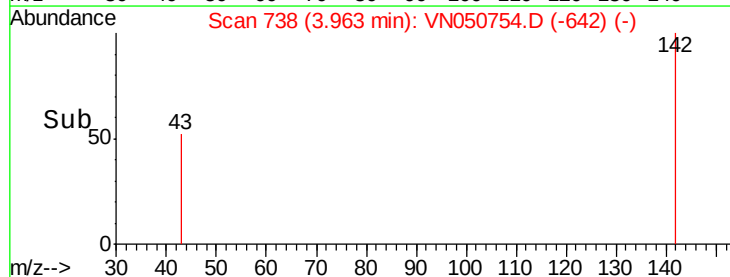
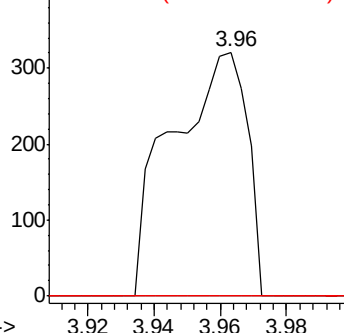
141 0.0 11.5 17.3#

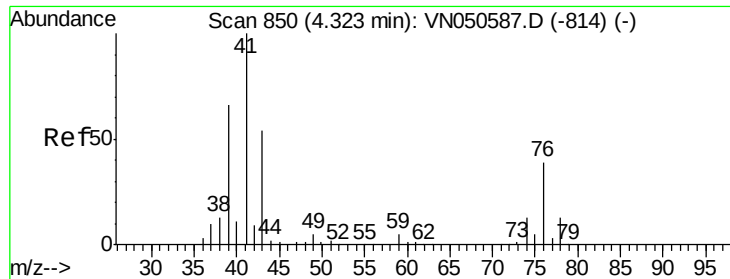


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

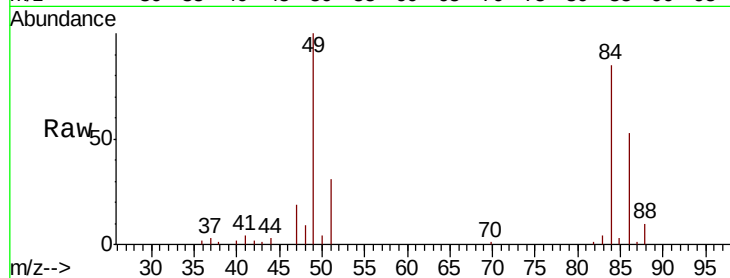




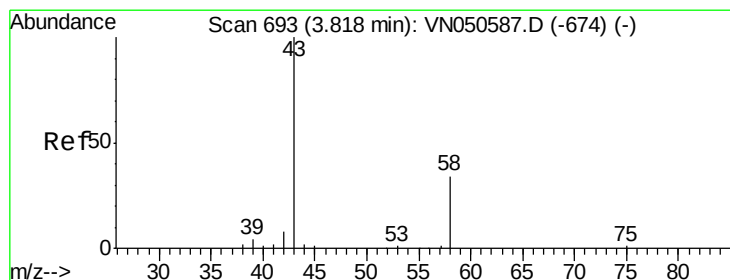
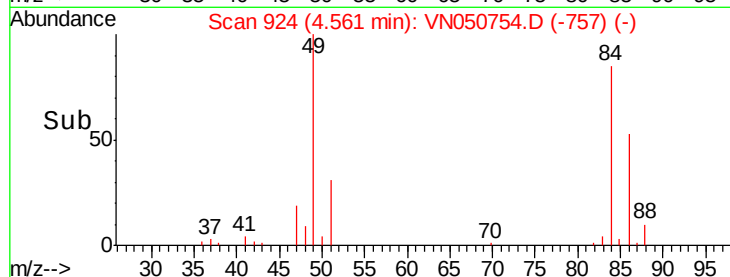
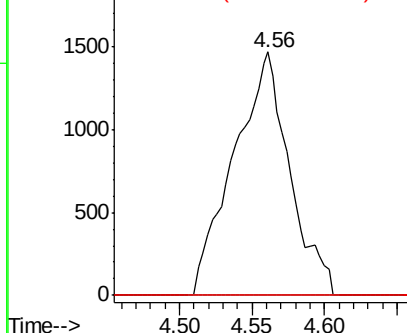
#14
Allvl chloride
Concen: 0.39 ug/l
RT: 4.56 min Scan# 924
Delta R.T. 0.24 min
Lab File: VN050754.D
Acq: 18 Aug 2018 6:13

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 41 Resp: 3940
Ion Ratio Lower Upper
41 100
39 0.0 51.4 77.0#
76 0.0 29.4 44.0#

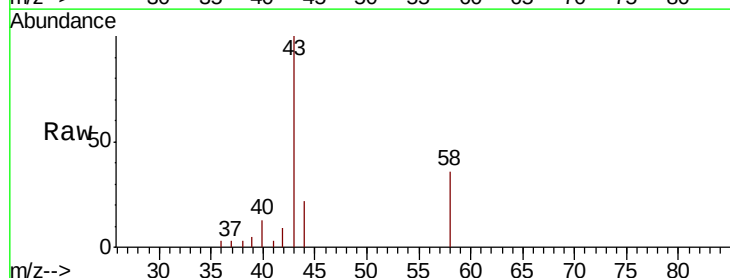


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 39.00 (38.70 to 39.70): VN0
Ion 75.90 (75.60 to 76.60): VN0

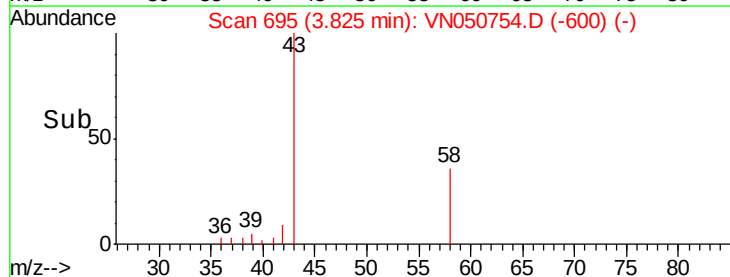
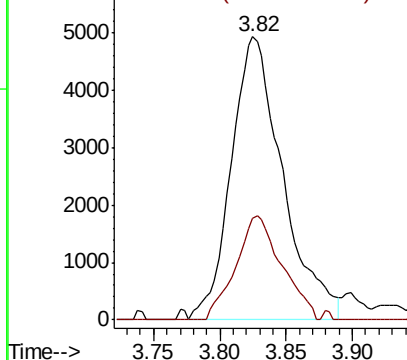


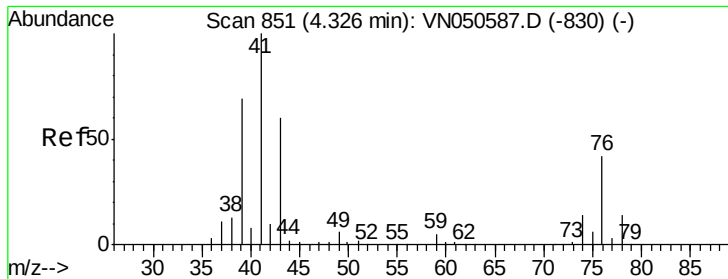
#16
Acetone
Concen: 5.66 ug/l
RT: 3.82 min Scan# 695
Delta R.T. 0.01 min
Lab File: VN050754.D
Acq: 18 Aug 2018 6:13

Tgt Ion: 43 Resp: 13341
Ion Ratio Lower Upper
43 100
58 35.7 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

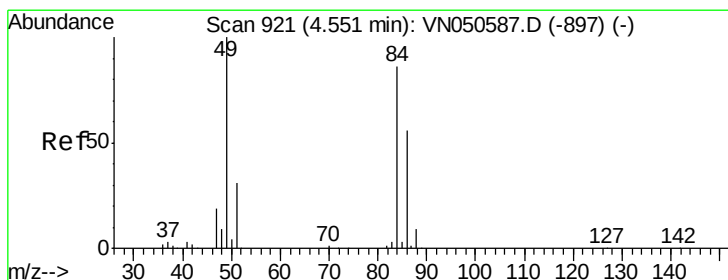
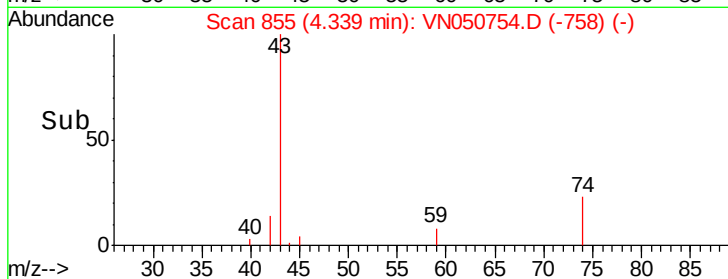
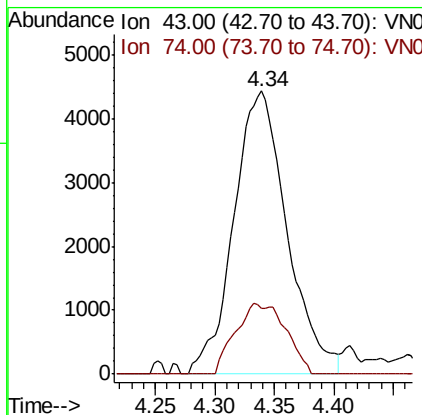
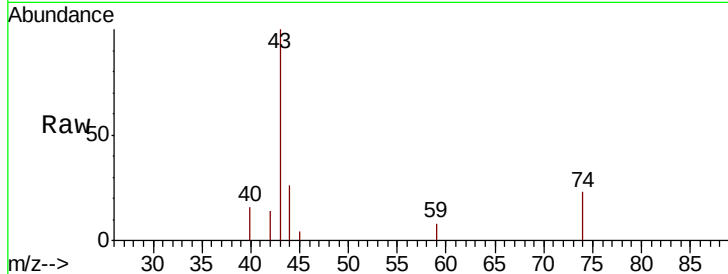




#18
Methvl Acetate
Concen: 1.63 ug/l
RT: 4.34 min Scan# 855
Delta R.T. 0.01 min
Lab File: VN050754.D
Acq: 18 Aug 2018 6:13

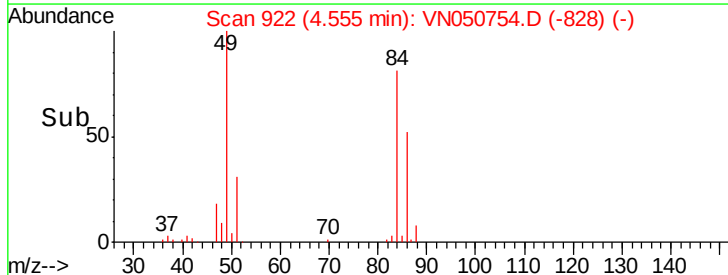
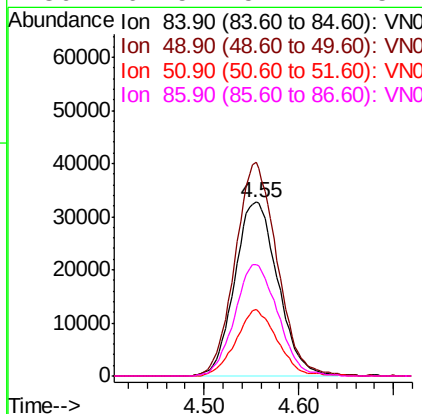
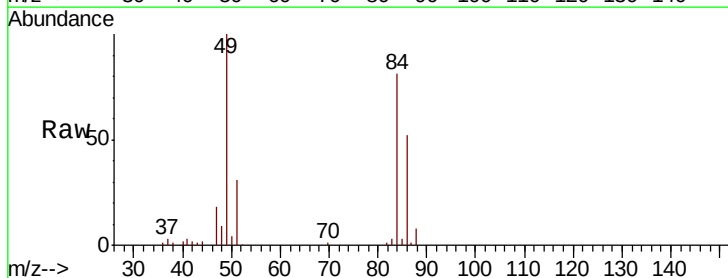
Instrument :
MSVOA_N
ClientSampleId :

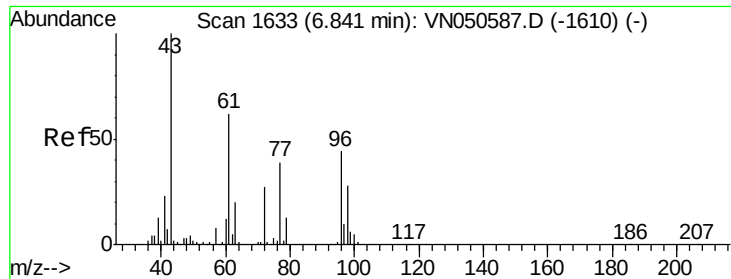
Tot Ion: 43 Resp: 13757
Ion Ratio Lower Upper
43 100
74 23.6 19.7 29.5



#20
Methylene Chloride
Concen: 13.54 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN050754.D
Acq: 18 Aug 2018 6:13

Tgt Ion: 84 Resp: 103821
Ion Ratio Lower Upper
84 100
49 122.9 92.6 138.8
51 38.2 28.6 43.0
86 64.5 52.2 78.2





#25

2-Butanone

Concen: 0.55 ug/l

RT: 6.85 min Scan# 1635

Delta R.T. 0.01 min

Lab File: VN050754.D

Acq: 18 Aug 2018 6:13

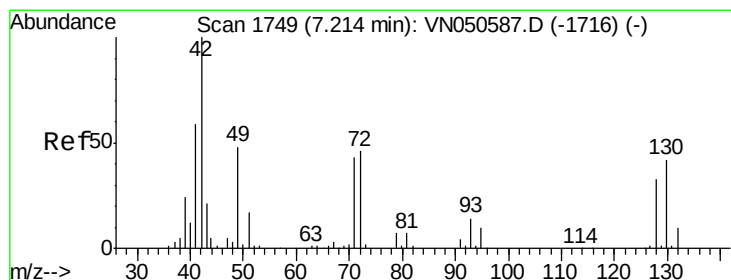
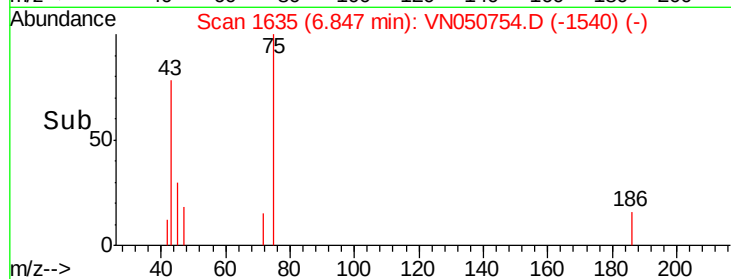
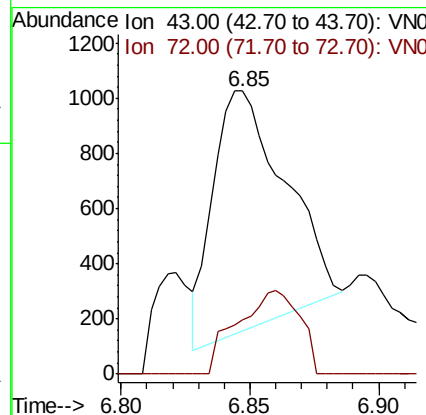
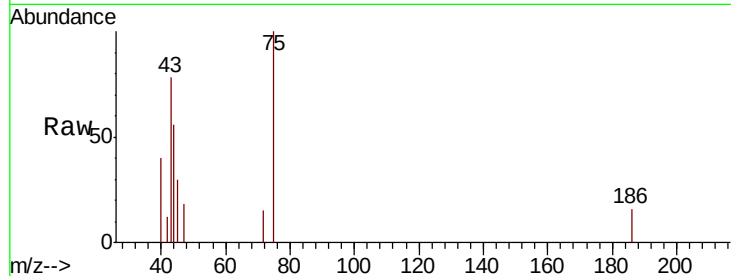
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 1687

Ion Ratio Lower Upper

43 100

72 27.1 21.8 32.6



#29

Tetrahydrofuran

Concen: 0.73 ug/l

RT: 7.22 min Scan# 1752

Delta R.T. 0.01 min

Lab File: VN050754.D

Acq: 18 Aug 2018 6:13

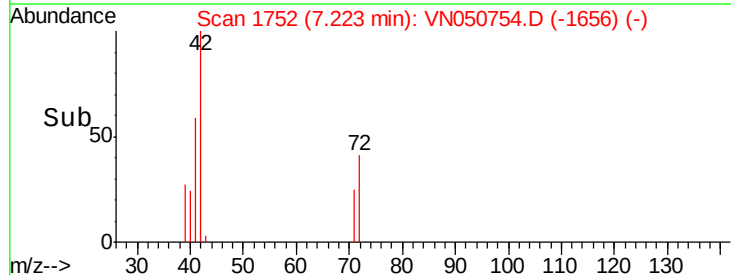
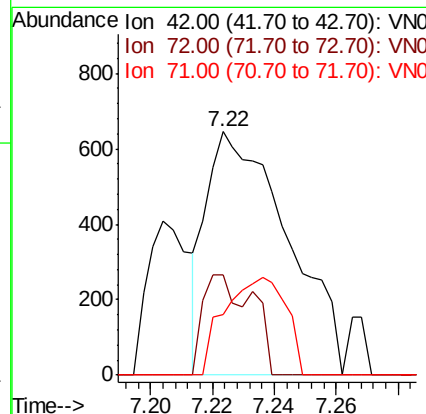
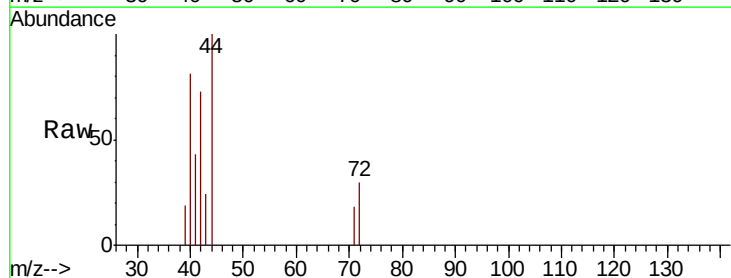
Tgt Ion: 42 Resp: 1177

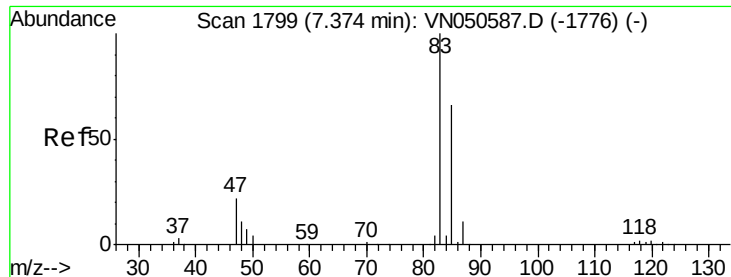
Ion Ratio Lower Upper

42 100

72 24.8 35.8 53.6#

71 30.3 33.4 50.0#

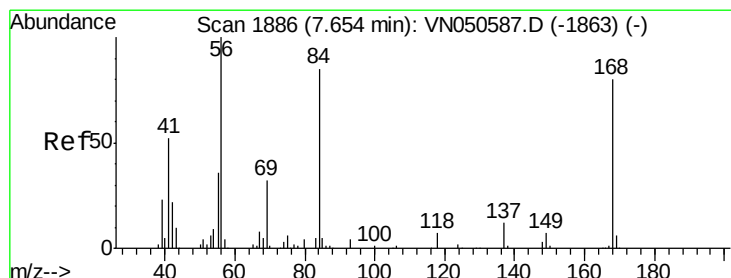
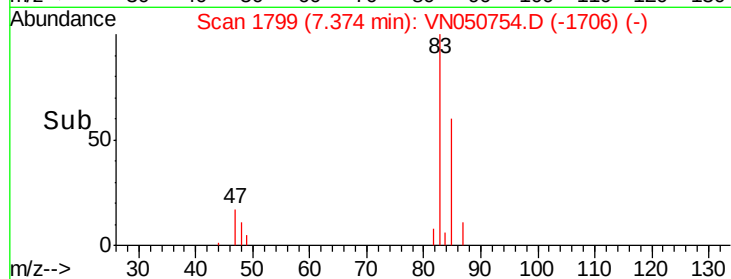
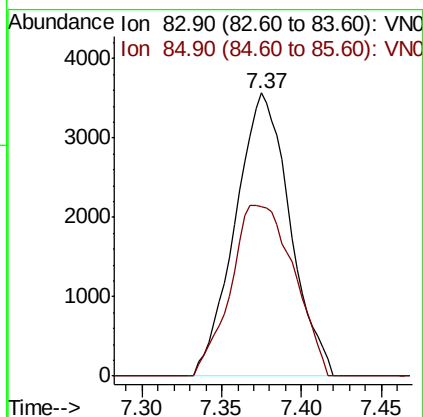
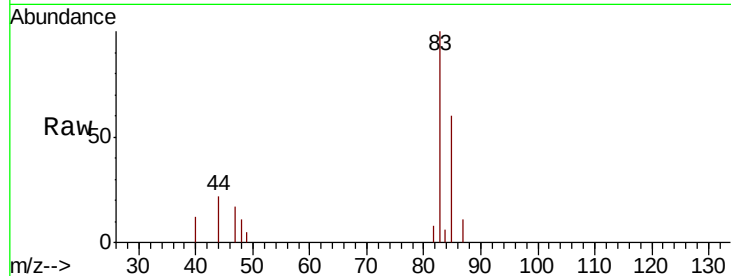




#30
Chloroform
Concen: 0.62 ug/l
RT: 7.37 min Scan# 1799
Delta R.T. 0.00 min
Lab File: VN050754.D
Acq: 18 Aug 2018 6:13

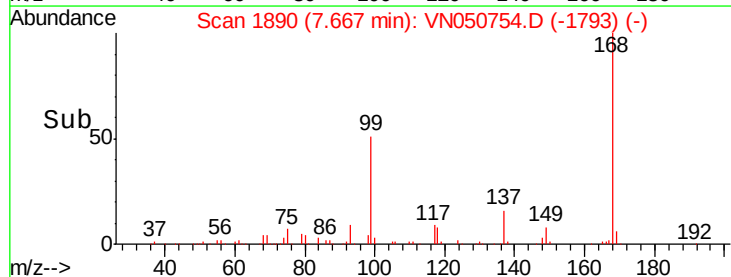
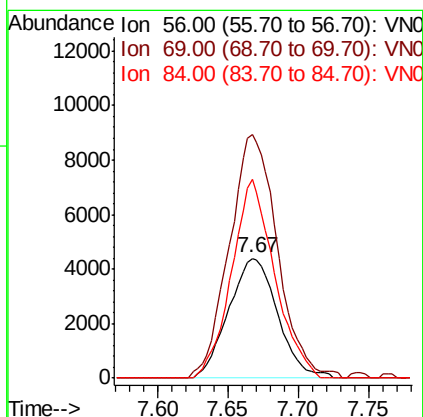
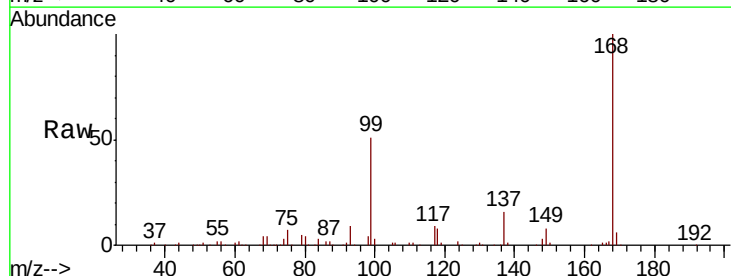
Instrument :
MSVOA_N
ClientSampleId :

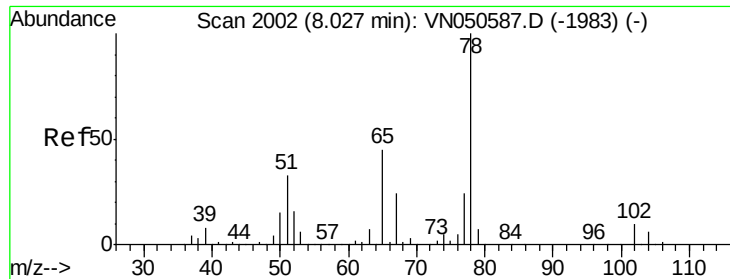
Tot Ion: 83 Resp: 8358
Ion Ratio Lower Upper
83 100
85 60.0 52.5 78.7



#31
Cyclohexane
Concen: 0.59 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. 0.01 min
Lab File: VN050754.D
Acq: 18 Aug 2018 6:13

Tgt Ion: 56 Resp: 10683
Ion Ratio Lower Upper
56 100
69 203.2 25.8 38.6#
84 166.2 67.8 101.6#

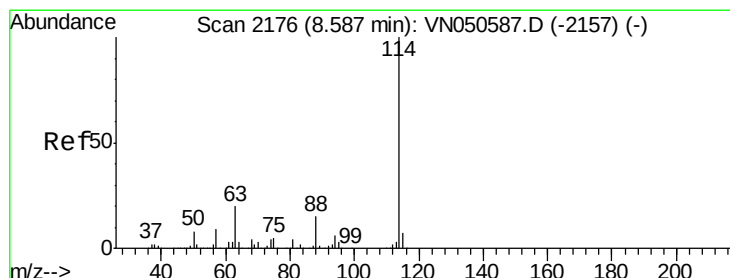
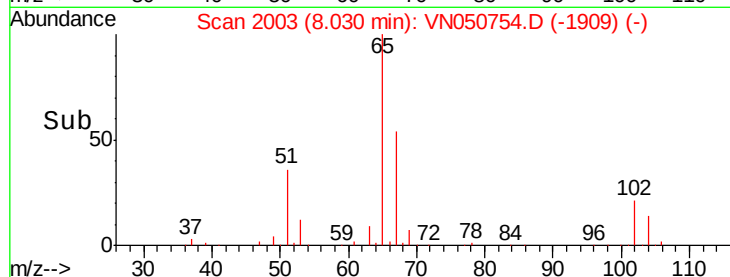
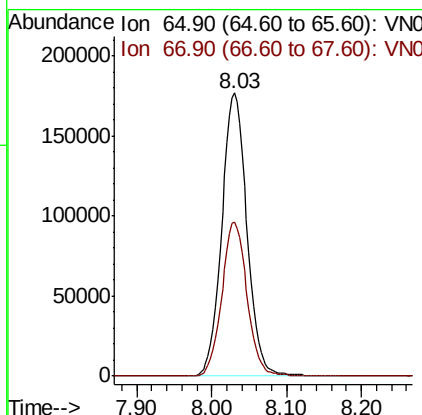
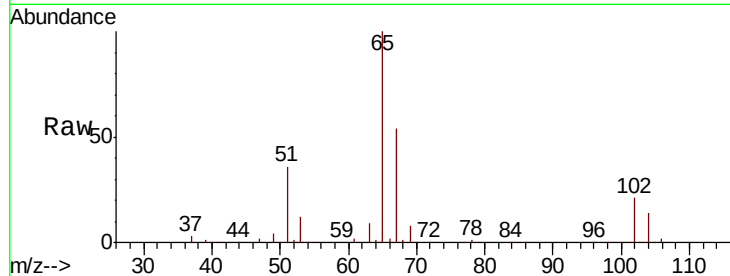




#33
 1,2-Dichloroethane-d4
 Concen: 54.47 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050754.D
 Acq: 18 Aug 2018 6:13

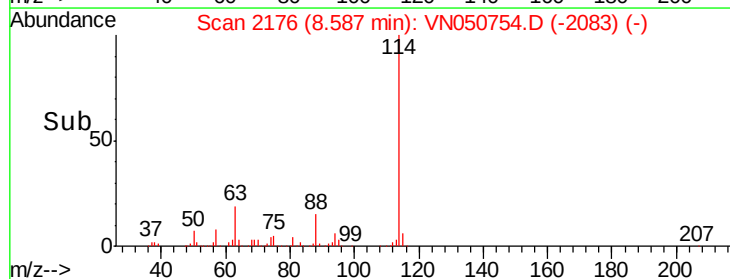
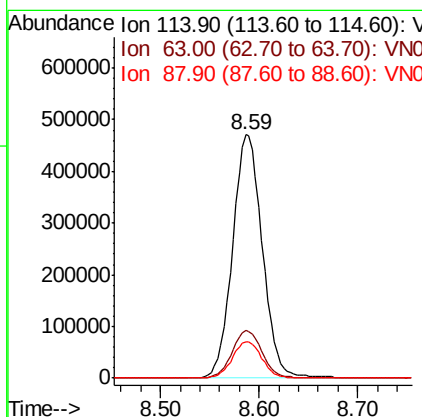
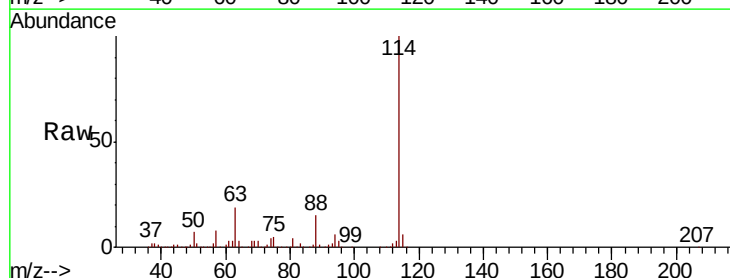
Instrument :
 MSVOA_N
 ClientSampleId :

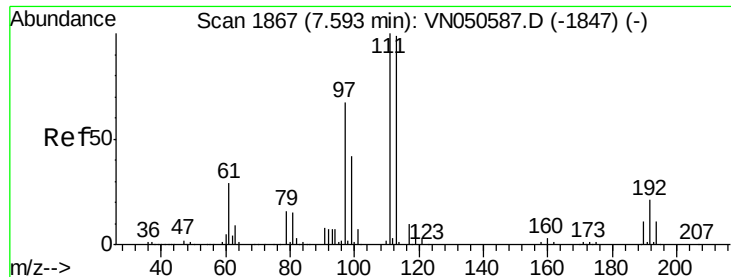
Tot Ion: 65 Resp: 411195
 Ion Ratio Lower Upper
 65 100
 67 54.4 0.0 109.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VN050754.D
 Acq: 18 Aug 2018 6:13

Tgt Ion: 114 Resp: 988048
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 40.0
 88 15.0 0.0 30.8

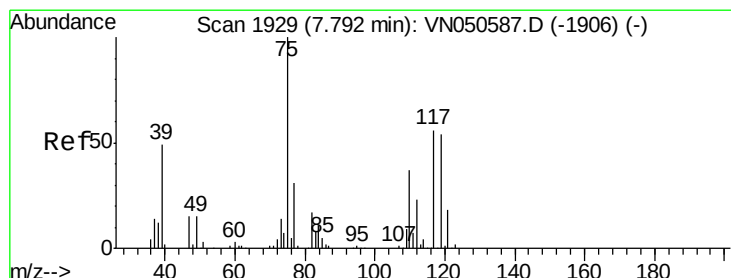
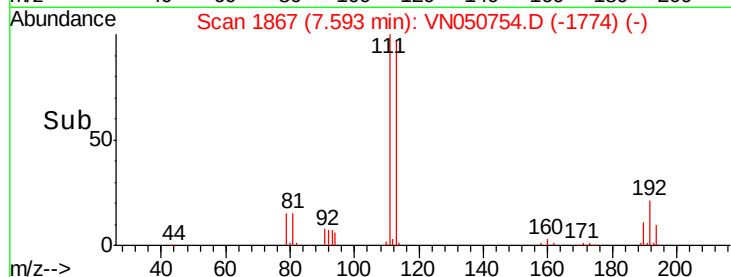
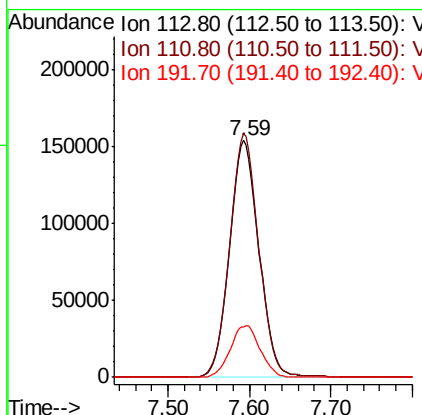
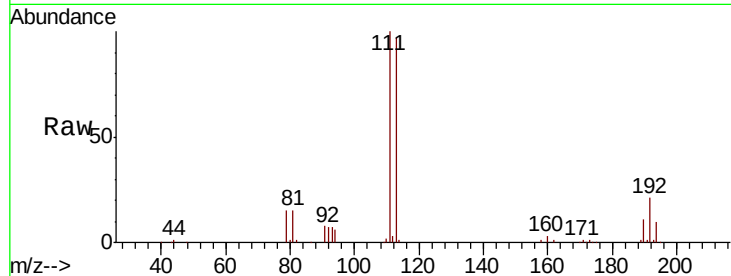




#35
 Dibromofluoromethane
 Concen: 49.22 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050754.D
 Acq: 18 Aug 2018 6:13

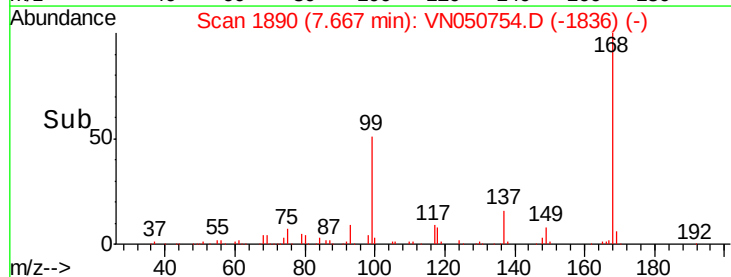
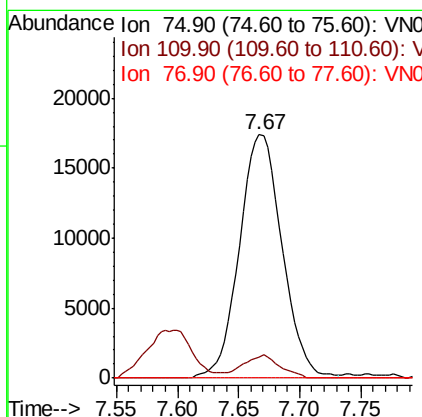
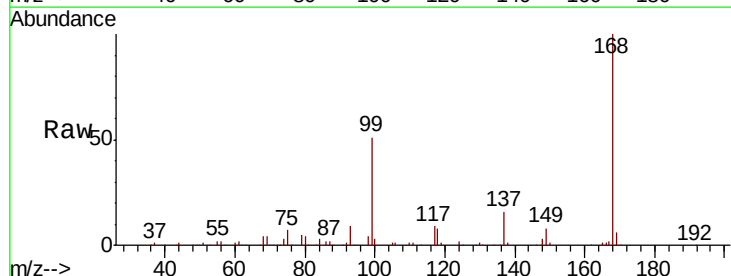
Instrument :
 MSVOA_N
 ClientSampleId :

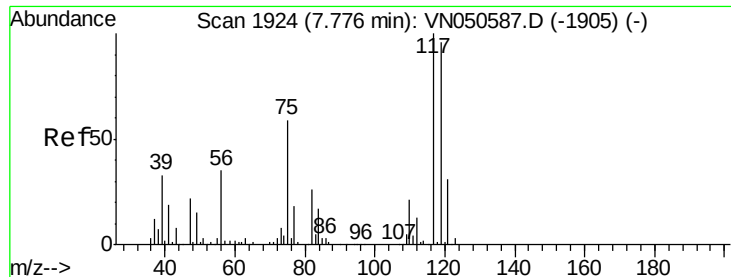
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.9	81.0	121.6
192	22.2	17.6	26.4



#36
 1,1-Dichloropropene
 Concen: 3.83 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050754.D
 Acq: 18 Aug 2018 6:13

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.1	18.3	54.9#
77	0.0	25.0	37.4#

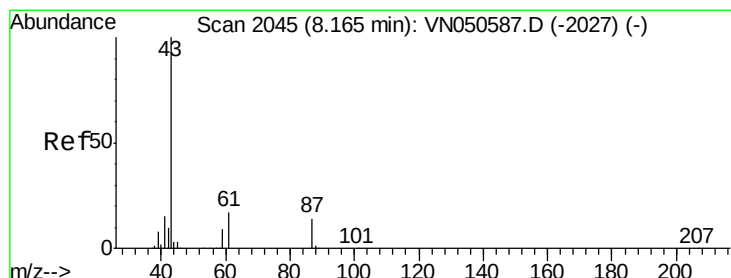
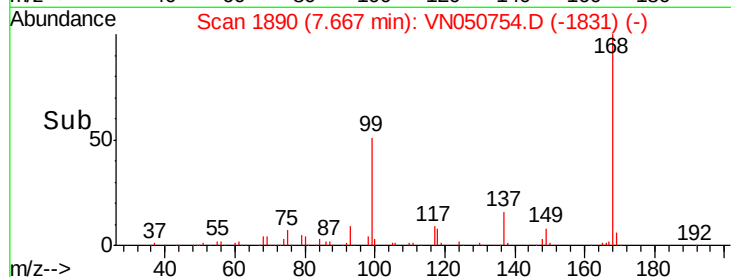
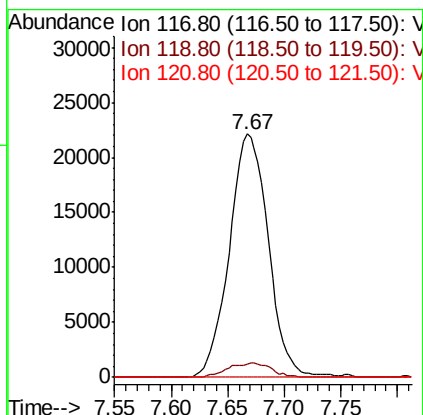
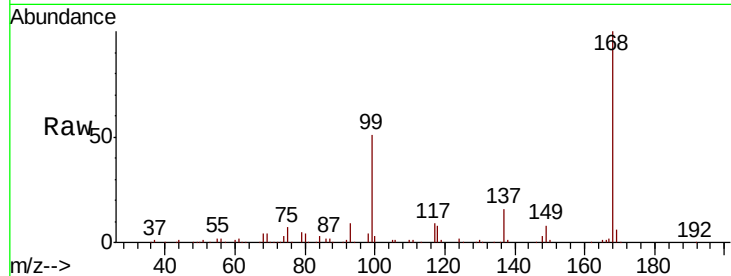




#38
Carbon Tetrachloride
Concen: 4.65 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. -0.11 min
Lab File: VN050754.D
Acq: 18 Aug 2018 6:13

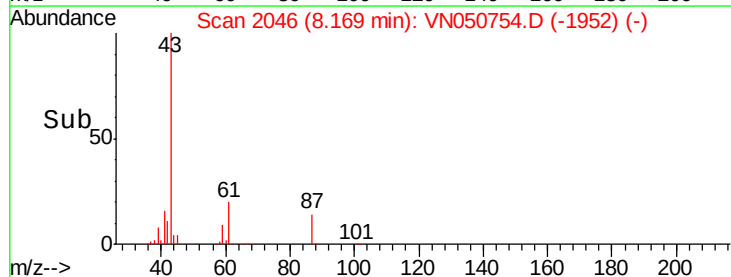
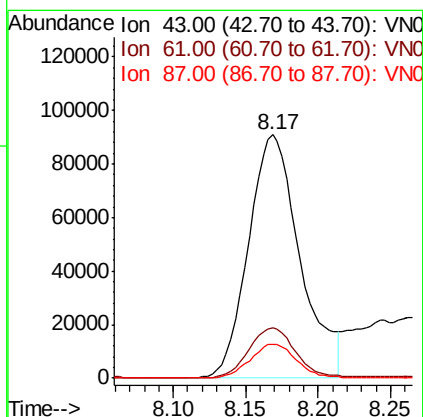
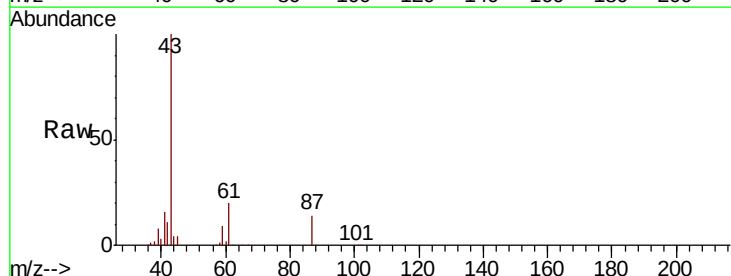
Instrument :
MSVOA_N
ClientSampled :

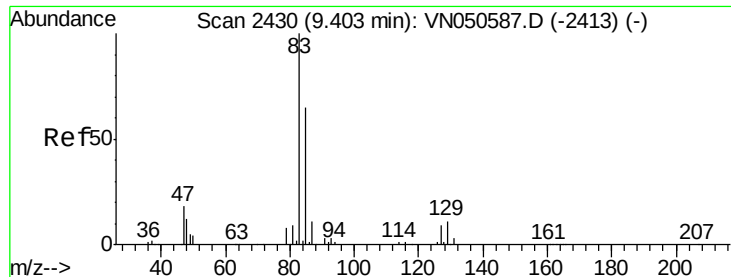
Tot Ion:117 Resp: 53095
Ion Ratio Lower Upper
117 100
119 5.6 76.6 115.0#
121 0.0 25.0 37.6#



#43
Isopropyl Acetate
Concen: 19.92 ug/l
RT: 8.17 min Scan# 2046
Delta R.T. 0.00 min
Lab File: VN050754.D
Acq: 18 Aug 2018 6:13

Tgt Ion: 43 Resp: 225643
Ion Ratio Lower Upper
43 100
61 18.7 16.2 24.2
87 12.6 10.9 16.3





#47

Bromodichloromethane

Concen: 0.21 ug/l

RT: 9.40 min Scan# 2429

Delta R.T. -0.00 min

Lab File: VN050754.D

Acq: 18 Aug 2018 6:13

Instrument :
MSVOA_N
ClientSampleId :

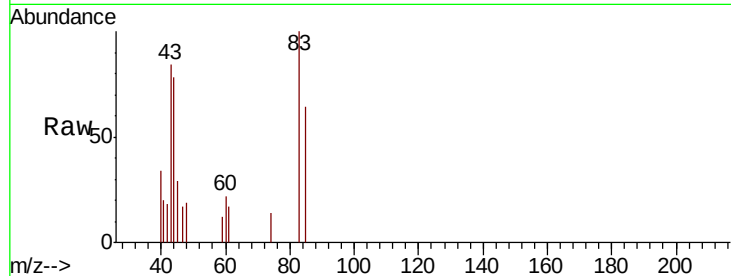
Tot Ion: 83 Resp: 2382

Ion Ratio Lower Upper

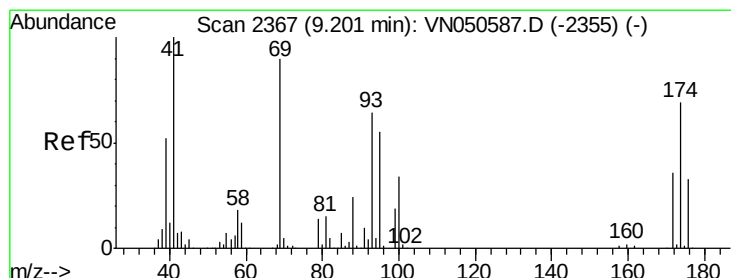
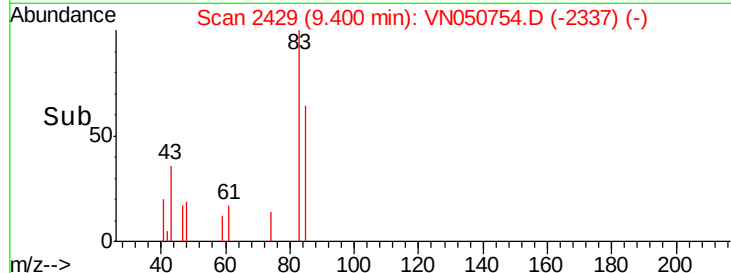
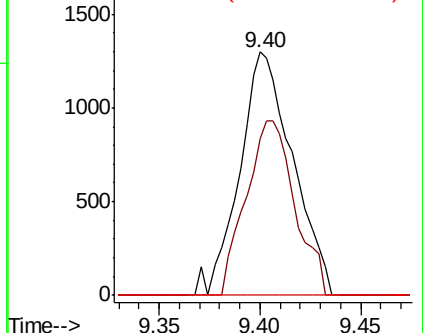
83 100

85 64.1 51.8 77.6

127 0.0 7.2 10.8#



Abundance Ion 82.90 (82.60 to 83.60): VNC
Ion 84.90 (84.60 to 85.60): VNC
Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 1.15 ug/l

RT: 9.18 min Scan# 2361

Delta R.T. -0.02 min

Lab File: VN050754.D

Acq: 18 Aug 2018 6:13

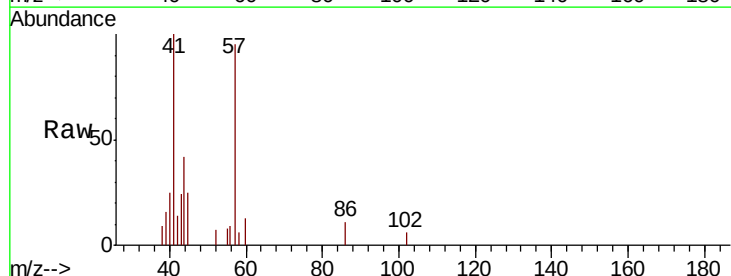
Tgt Ion: 41 Resp: 6562

Ion Ratio Lower Upper

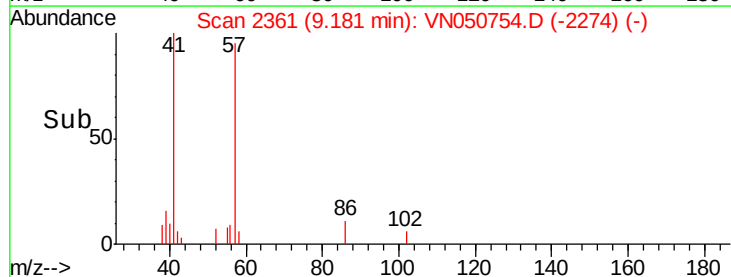
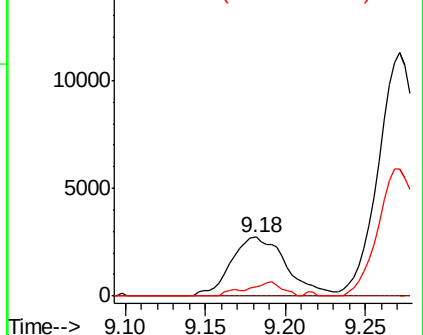
41 100

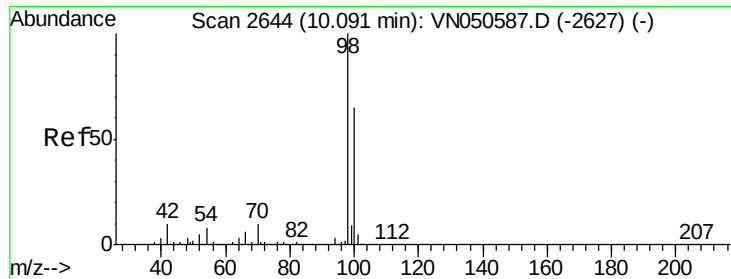
69 0.0 73.4 110.0#

39 15.0 43.0 64.6#



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

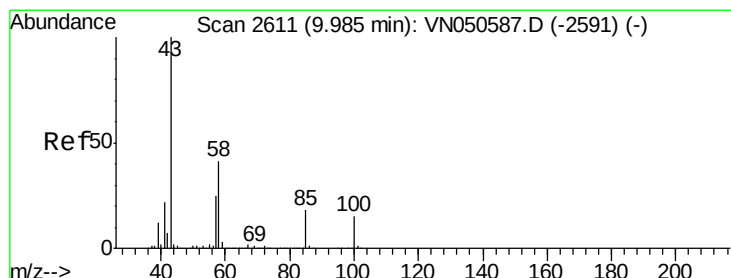
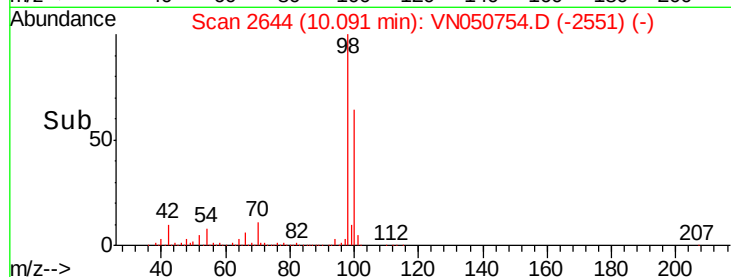
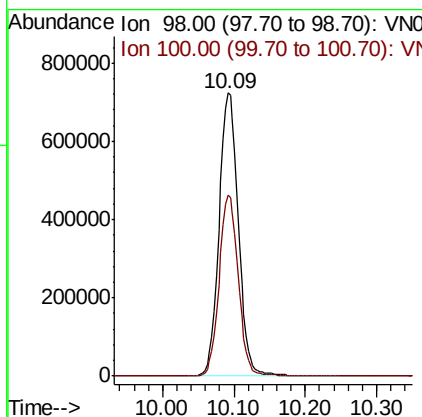
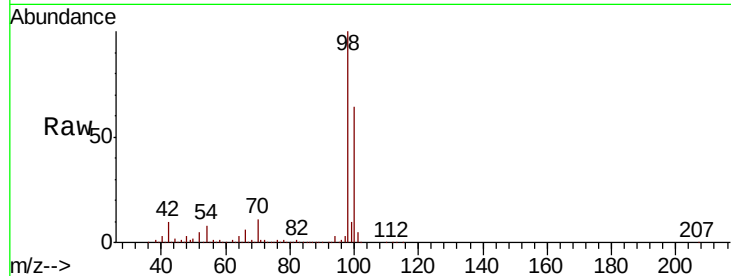




#50
Toluene-d8
Concen: 45.62 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN050754.D
Acq: 18 Aug 2018 6:13

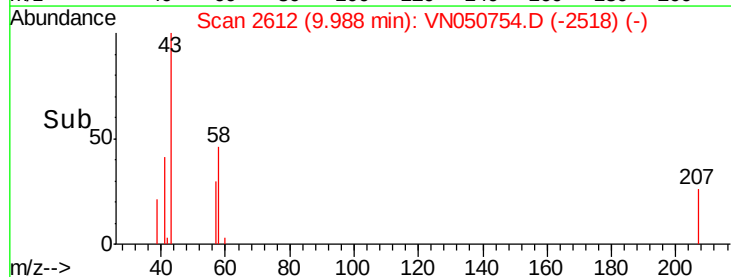
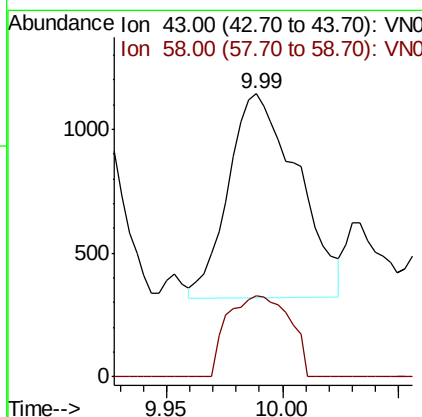
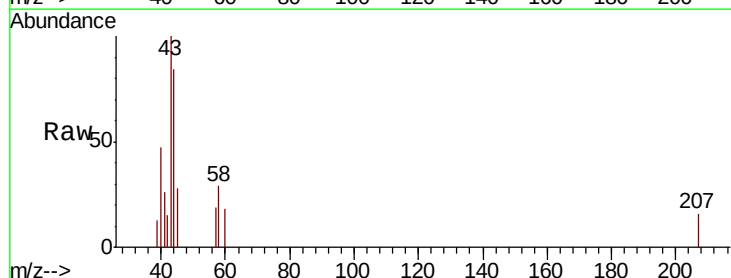
Instrument :
MSVOA_N
ClientSampled :

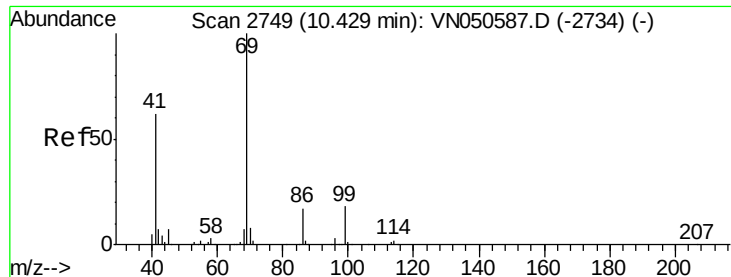
Tot Ion: 98 Resp: 1354376
Ion Ratio Lower Upper
98 100
100 63.5 51.8 77.8



#51
4-Methyl-2-Pentanone
Concen: 0.22 ug/l
RT: 9.99 min Scan# 2612
Delta R.T. 0.00 min
Lab File: VN050754.D
Acq: 18 Aug 2018 6:13

Tgt Ion: 43 Resp: 1715
Ion Ratio Lower Upper
43 100
58 35.7 32.5 48.7





#56

Ethyl methacrylate

Concen: 2.07 ug/l

RT: 10.23 min Scan# 2686

Delta R.T. -0.20 min

Lab File: VN050754.D

Acq: 18 Aug 2018 6:13

Instrument :

MSVOA_N

ClientSampled :

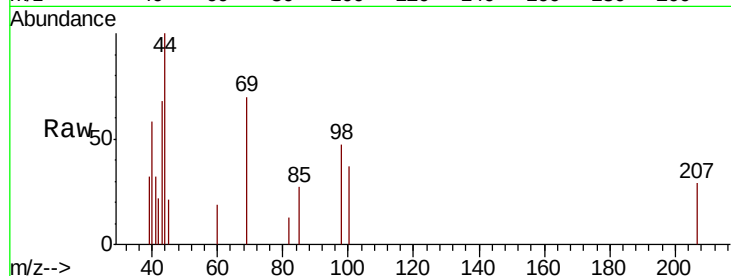
Tot Ion: 69 Resp: 1683

Ion Ratio Lower Upper

69 100

41 10.3 49.7 74.5#

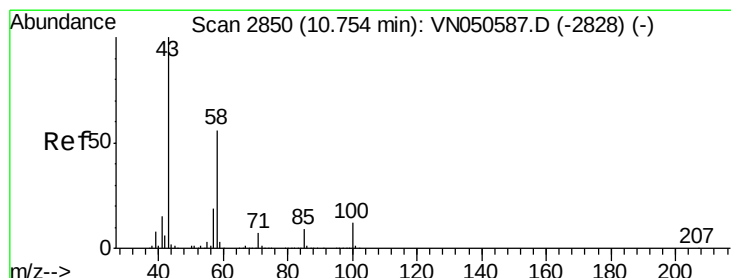
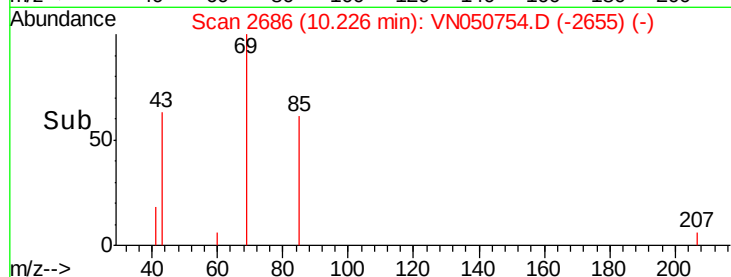
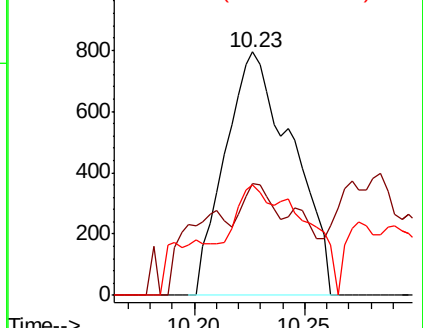
39 11.8 24.2 36.2#



Abundance Ion 69.00 (68.70 to 69.70): VN050754.D (-2686) (-)

Ion 41.00 (40.70 to 41.70): VN050754.D (-2686) (-)

Ion 39.00 (38.70 to 39.70): VN050754.D (-2686) (-)



#59

2-Hexanone

Concen: 2.90 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050754.D

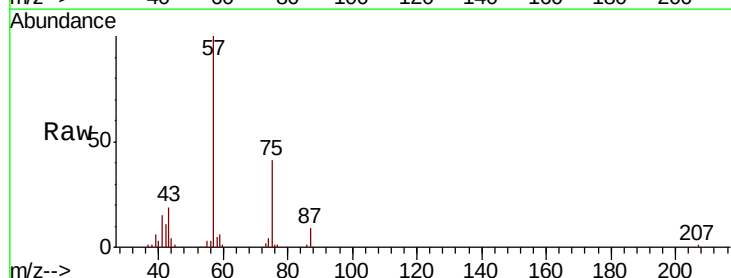
Acq: 18 Aug 2018 6:13

Tgt Ion: 43 Resp: 14328

Ion Ratio Lower Upper

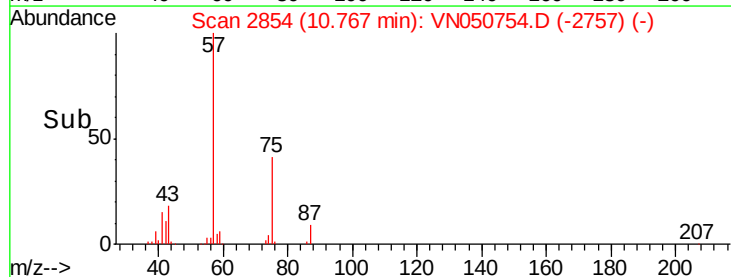
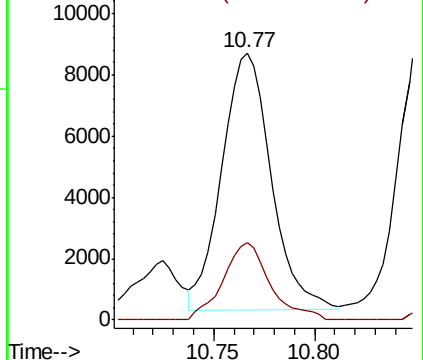
43 100

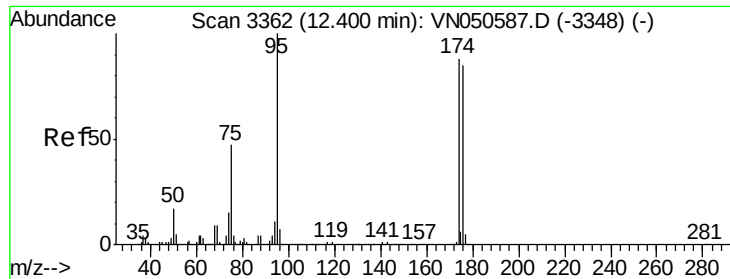
58 28.7 28.0 84.0



Abundance Ion 43.00 (42.70 to 43.70): VN050754.D (-2854) (-)

Ion 58.00 (57.70 to 58.70): VN050754.D (-2854) (-)





#62

4-Bromofluorobenzene

Concen: 37.39 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050754.D

Acq: 18 Aug 2018 6:13

Instrument :

MSVOA_N

ClientSampled :

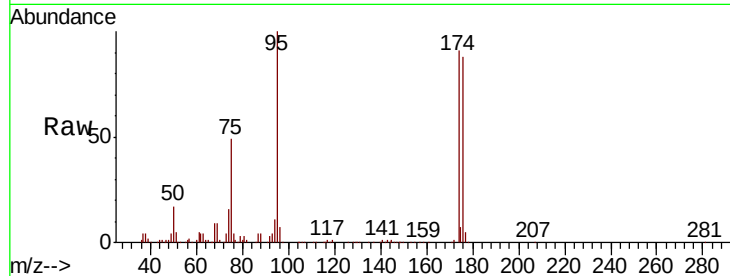
Tot Ion: 95 Resp: 366726

Ion Ratio Lower Upper

95 100

174 91.3 0.0 177.8

176 87.0 0.0 175.0



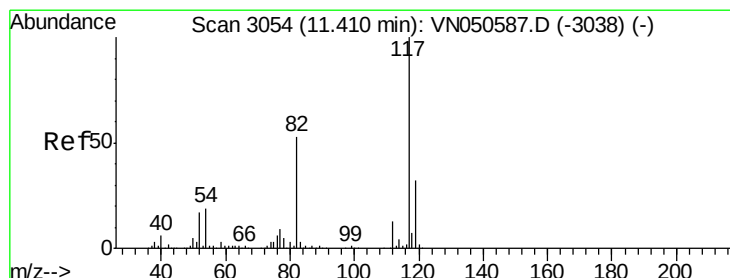
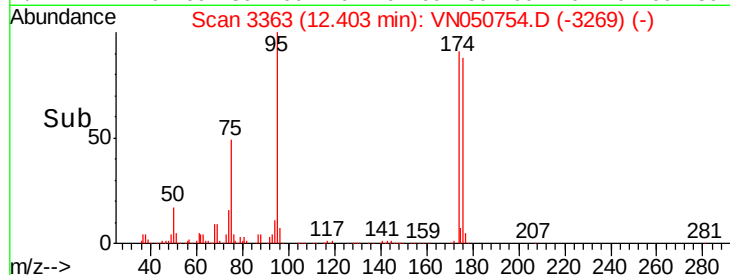
Abundance Ion 94.90 (94.60 to 95.60): VN050754.D (-3348) (-)

Ion 173.80 (173.50 to 174.50): VN050754.D (-3348) (-)

Ion 175.80 (175.50 to 176.50): VN050754.D (-3348) (-)

12.40

Time-->



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. 0.00 min

Lab File: VN050754.D

Acq: 18 Aug 2018 6:13

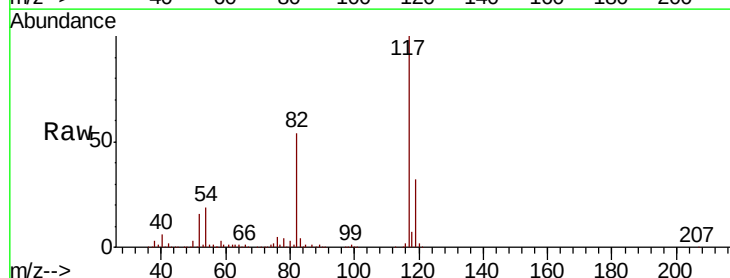
Tgt Ion: 117 Resp: 848894

Ion Ratio Lower Upper

117 100

82 53.9 42.4 63.6

119 32.0 25.8 38.8



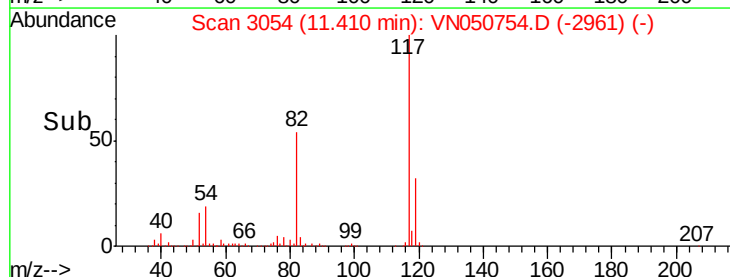
Abundance Ion 116.90 (116.60 to 117.60): VN050754.D (-2961) (-)

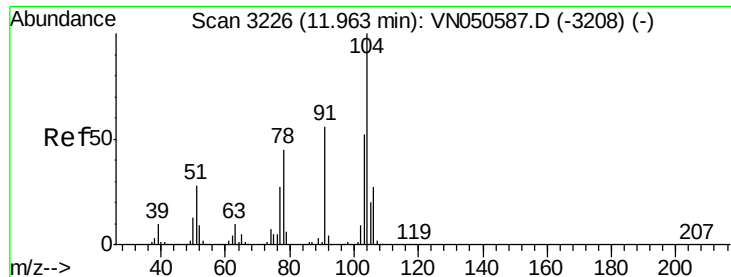
Ion 82.00 (81.70 to 82.70): VN050754.D (-2961) (-)

Ion 118.90 (118.60 to 119.60): VN050754.D (-2961) (-)

11.41

Time-->





#70

Stvrene

Concen: 0.95 ug/l

RT: 11.97 min Scan# 3227

Delta R.T. 0.00 min

Lab File: VN050754.D

Acq: 18 Aug 2018 6:13

Instrument :

MSVOA_N

ClientSampleId :

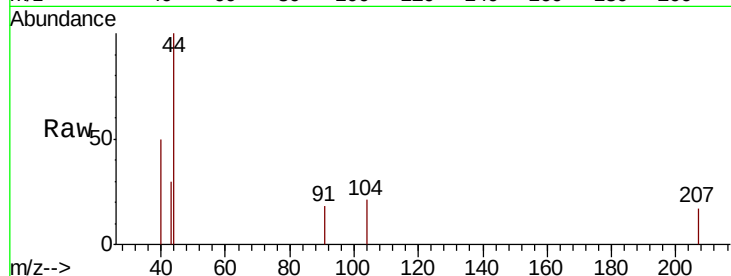
Tot Ion:104 Resp: 115

Ion Ratio Lower Upper

104 100

78 0.0 39.1 58.7#

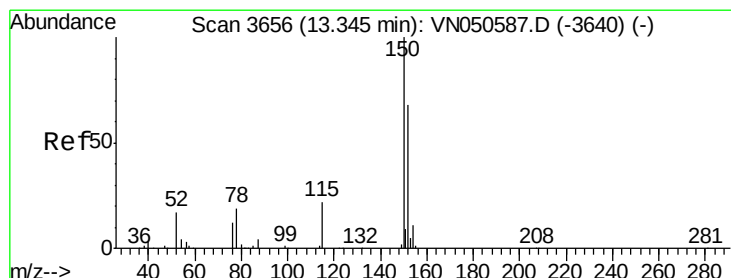
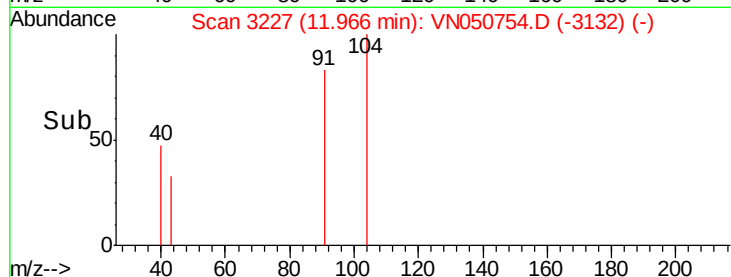
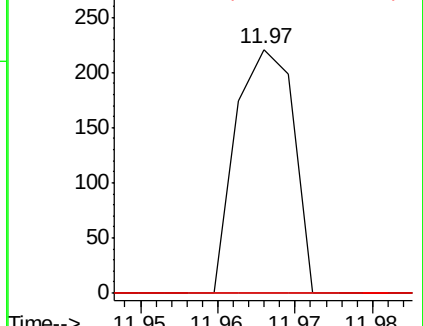
103 0.0 44.9 67.3#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN0

Ion 103.00 (102.70 to 103.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050754.D

Acq: 18 Aug 2018 6:13

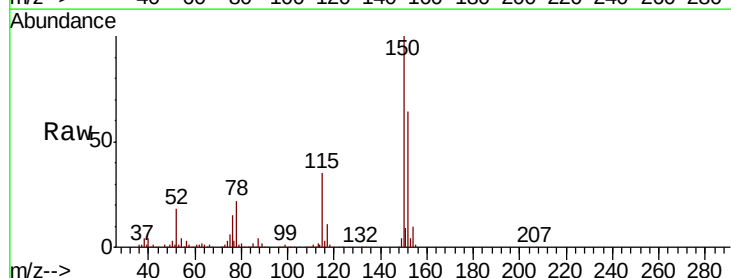
Tgt Ion:152 Resp: 299995

Ion Ratio Lower Upper

152 100

115 55.3 28.1 84.2

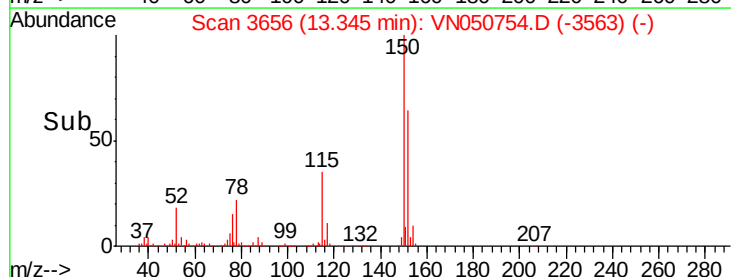
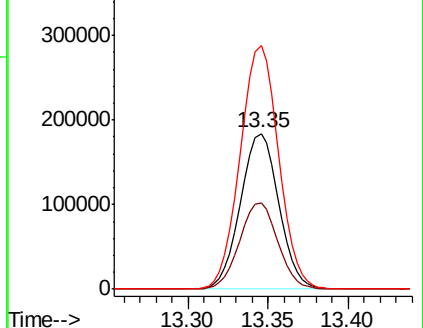
150 156.9 0.0 347.8

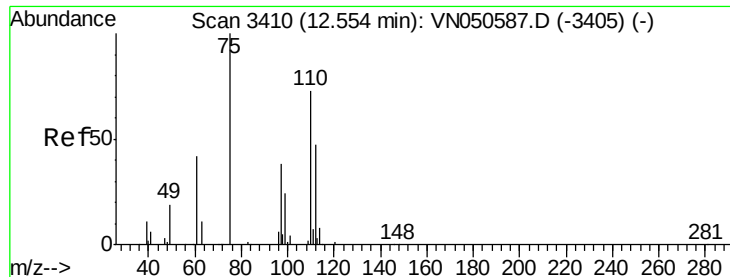


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 35.64 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050754.D

Acq: 18 Aug 2018 6:13

Instrument :

MSVOA_N

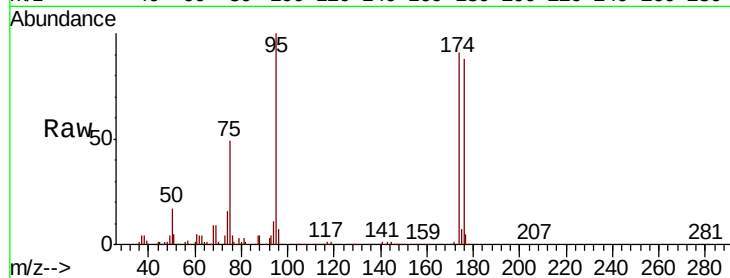
ClientSampleId :

Tot Ion: 75 Resp: 174162

Ion Ratio Lower Upper

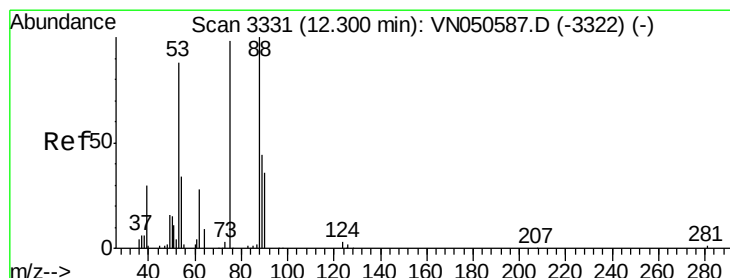
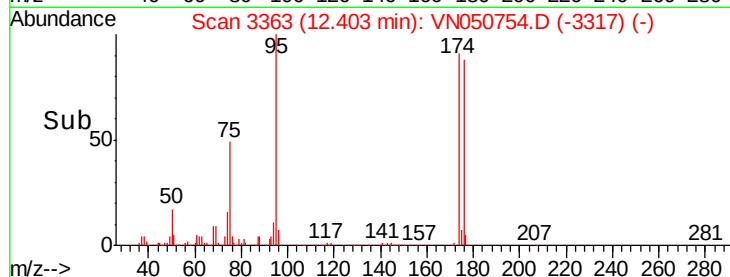
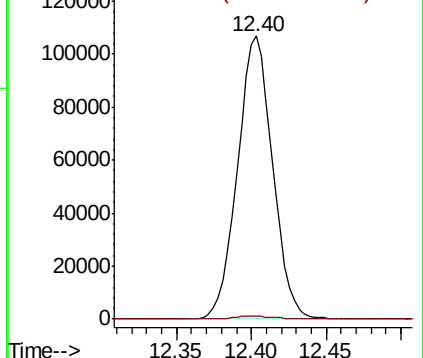
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 129.07 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050754.D

Acq: 18 Aug 2018 6:13

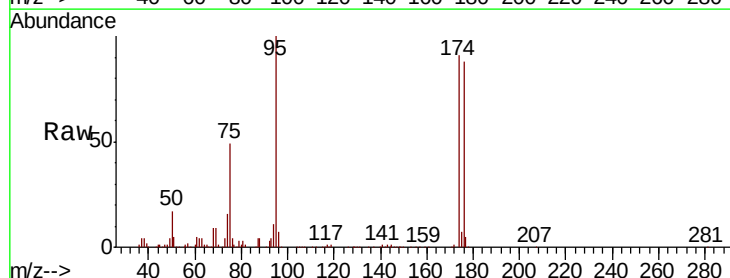
Tgt Ion: 75 Resp: 174162

Ion Ratio Lower Upper

75 100

53 0.2 72.2 108.2#

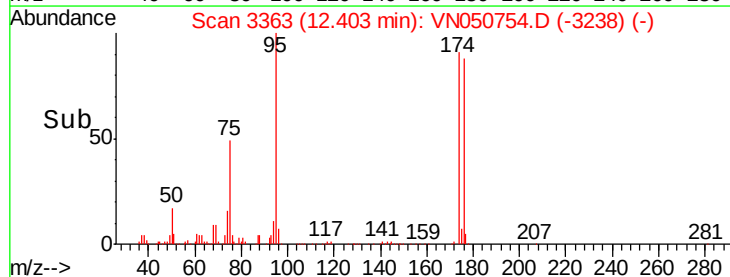
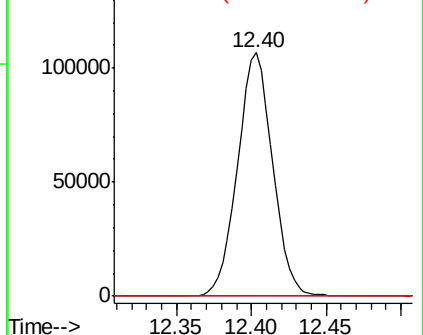
89 0.0 36.3 54.5#

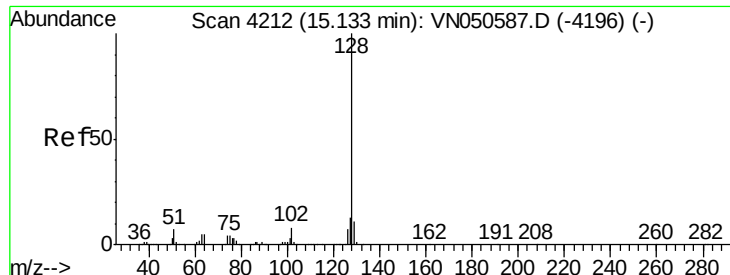


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

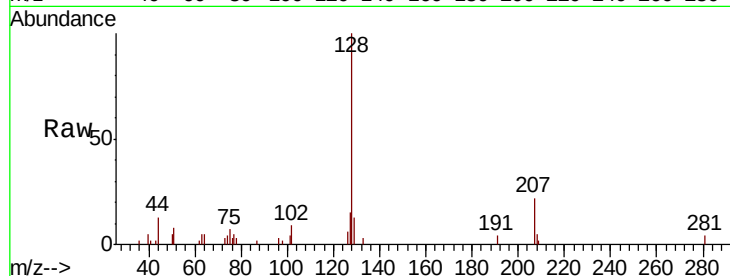




#95
Naphthalene
Concen: 5.16 ug/l
RT: 15.13 min Scan# 4212
Delta R.T. 0.00 min
Lab File: VN050754.D
Acq: 18 Aug 2018 6:13

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.5	10.3	15.5
129	11.0	8.5	12.7



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

