

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081718\
 Data File : VN050738.D
 Acq On : 17 Aug 2018 18:31
 Operator : MD\SY
 Sample : PB112140ZHE#05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 17 23:17:01 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	591006	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1011610	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	871236	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	319113	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	416369	55.89	ug/l	0.00
Spiked Amount			Recovery	=	111.78%	
35) Dibromofluoromethane	7.59	113	387590	47.99	ug/l	0.00
Spiked Amount			Recovery	=	95.98%	
50) Toluene-d8	10.09	98	1369712	45.06	ug/l	0.00
Spiked Amount			Recovery	=	90.12%	
62) 4-Bromofluorobenzene	12.40	95	383154	38.16	ug/l	0.00
Spiked Amount			Recovery	=	76.32%	

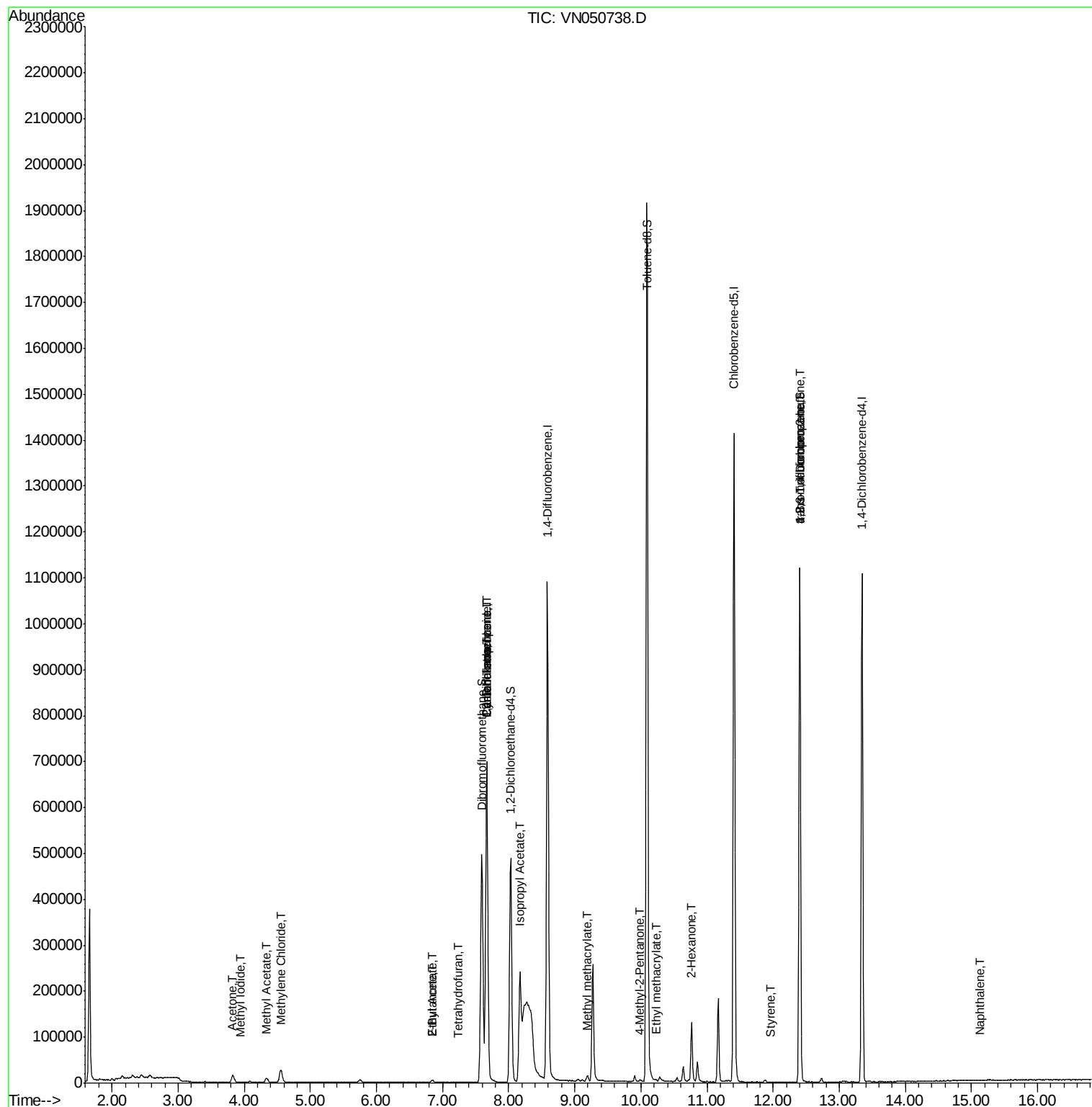
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2480	Below Cal		93
5) Bromomethane	2.57	94	3381	Below Cal	#	77
6) Chloroethane	2.70	64	133	Below Cal	#	43
10) Methyl Iodide	3.94	142	500	7.03	ug/l	# 42
16) Acetone	3.82	43	26958	13.12	ug/l	92
18) Methyl Acetate	4.34	43	17793	2.45	ug/l	# 73
20) Methylene Chloride	4.56	84	21092	1.75	ug/l	97
25) 2-Butanone	6.85	43	4221	1.38	ug/l	98
29) Tetrahydrofuran	7.23	42	750	0.47	ug/l	# 49
31) Cyclohexane	7.66	56	10813	0.62	ug/l	# 1
36) 1,1-Dichloropropene	7.67	75	41396	3.68	ug/l	# 47
37) Ethyl Acetate	6.85	43	4221	0.66	ug/l	# 67
38) Carbon Tetrachloride	7.67	117	51592	4.42	ug/l	# 18
43) Isopropyl Acetate	8.17	43	304332	26.23	ug/l	93
48) Methyl methacrylate	9.18	41	8136	1.39	ug/l	# 18
51) 4-Methyl-2-Pentanone	9.99	43	2712	0.35	ug/l	99
56) Ethyl methacrylate	10.23	69	2286	2.13	ug/l	# 87
59) 2-Hexanone	10.77	43	17775	3.51	ug/l	# 59
70) Styrene	11.97	104	30	0.94	ug/l	# 26
75) 1,1,2,2-Tetrachloroethane	12.40	83	235	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	183942	35.38	ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.40	75	183942	128.15	ug/l	# 13
95) Naphthalene	15.13	128	123	3.87	ug/l	# 69

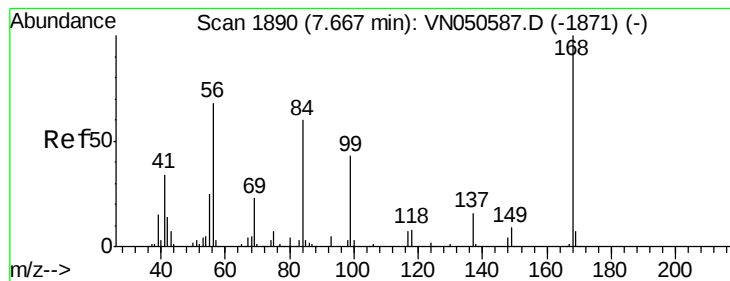
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 1890

Delta R.T. 0.00 min

Lab File: VN050738.D

Acq: 17 Aug 2018 18:31

Instrument :

MSVOA_N

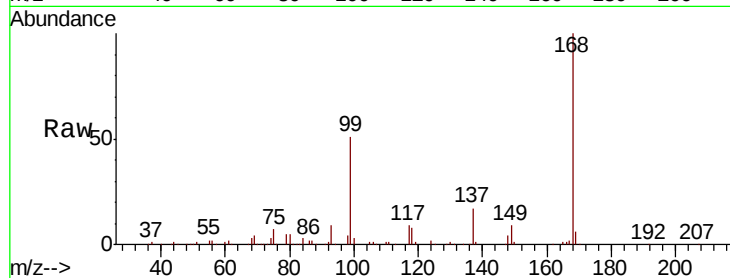
ClientSampled :

Tot Ion:168 Resp: 591006

Ion Ratio Lower Upper

168 100

99 51.2 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

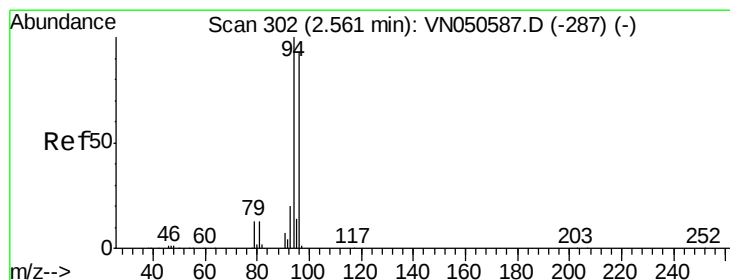
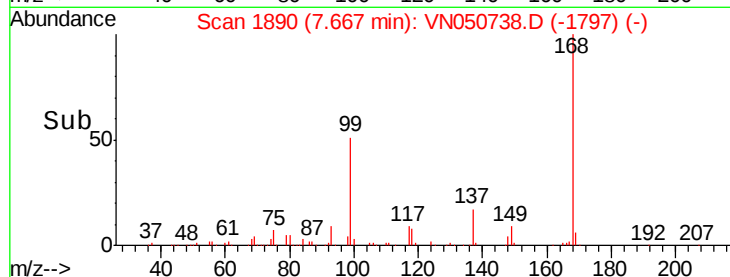
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 306

Delta R.T. 0.01 min

Lab File: VN050738.D

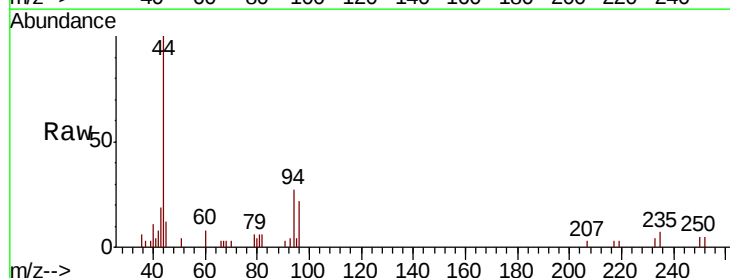
Acq: 17 Aug 2018 18:31

Tgt Ion: 94 Resp: 3381

Ion Ratio Lower Upper

94 100

96 70.7 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

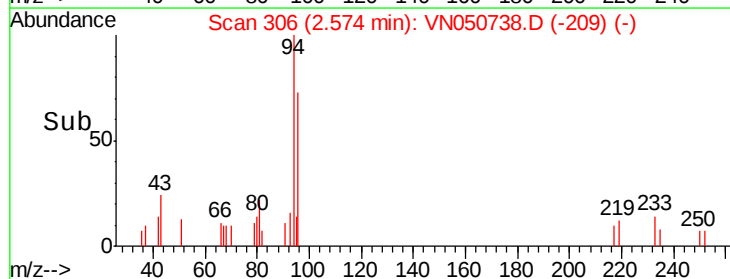
1500

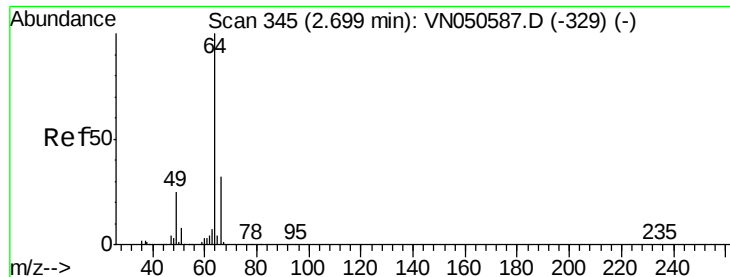
1000

500

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 2.70 min Scan# 344

Delta R.T. -0.00 min

Lab File: VN050738.D

Acq: 17 Aug 2018 18:31

Instrument :

MSVOA_N

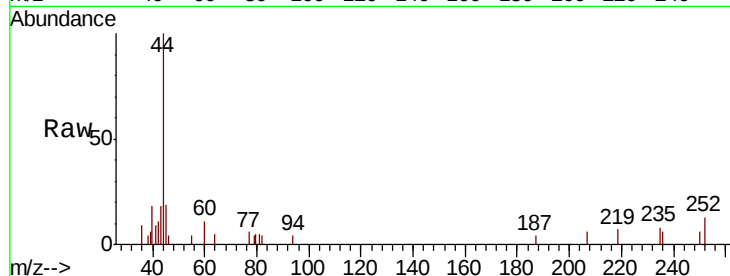
ClientSampled :

Tot Ion: 64 Resp: 133

Ion Ratio Lower Upper

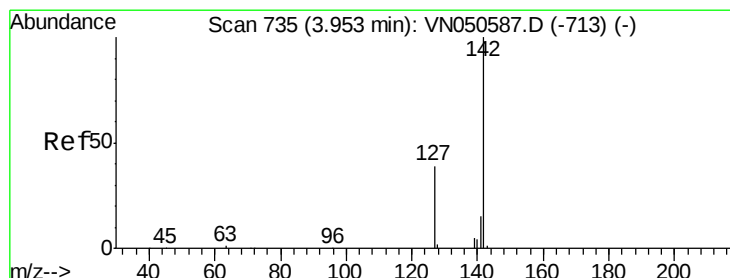
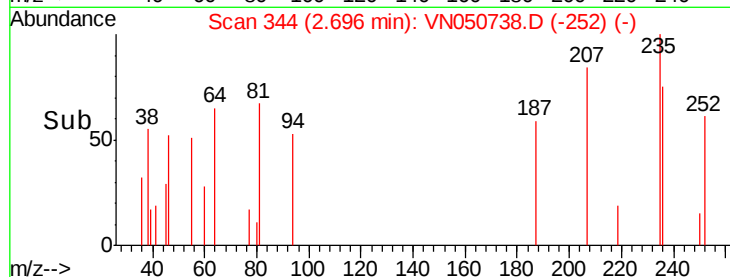
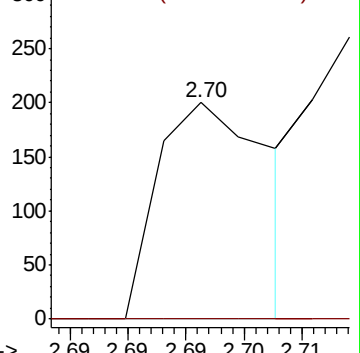
64 100

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: 7.03 ug/l

RT: 3.94 min Scan# 731

Delta R.T. -0.01 min

Lab File: VN050738.D

Acq: 17 Aug 2018 18:31

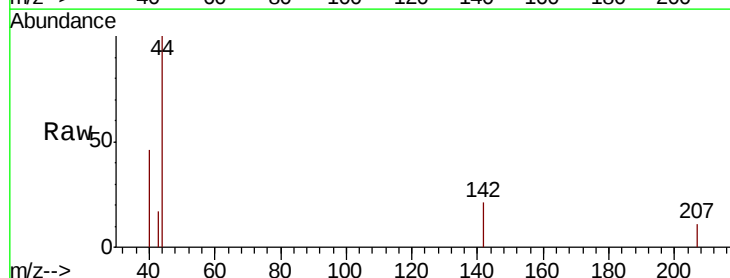
Tgt Ion: 142 Resp: 500

Ion Ratio Lower Upper

142 100

127 0.0 32.6 49.0#

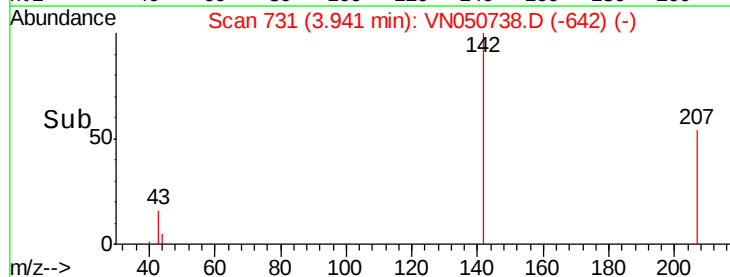
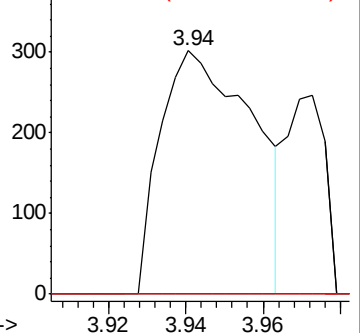
141 0.0 11.5 17.3#

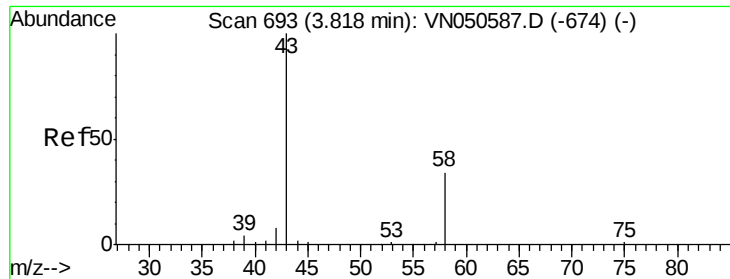


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#16

Acetone

Concen: 13.12 ug/l

RT: 3.82 min Scan# 694

Delta R.T. 0.00 min

Lab File: VN050738.D

Acq: 17 Aug 2018 18:31

Instrument :

MSVOA_N

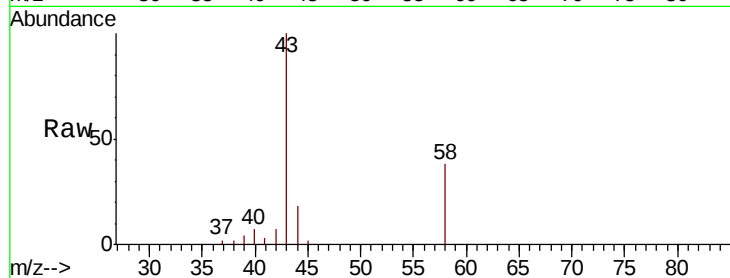
ClientSampled :

Tot Ion: 43 Resp: 26958

Ion Ratio Lower Upper

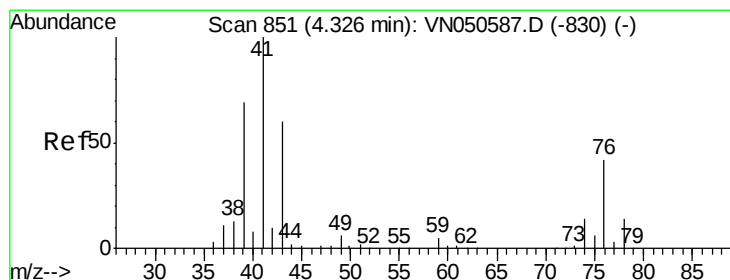
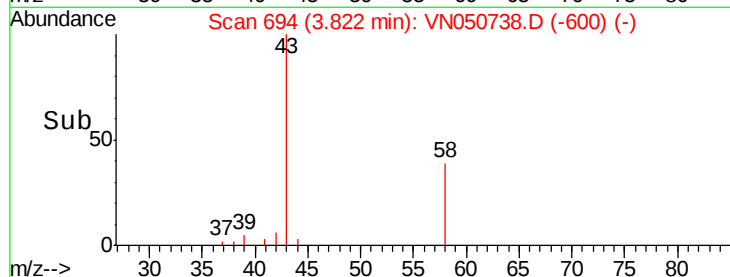
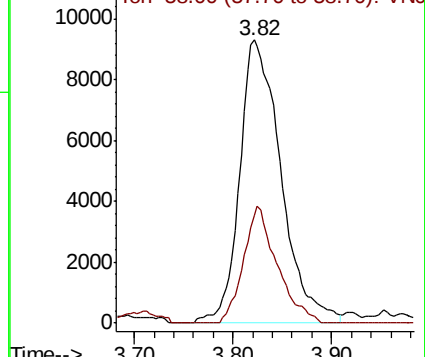
43 100

58 38.3 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: 2.45 ug/l

RT: 4.34 min Scan# 854

Delta R.T. 0.01 min

Lab File: VN050738.D

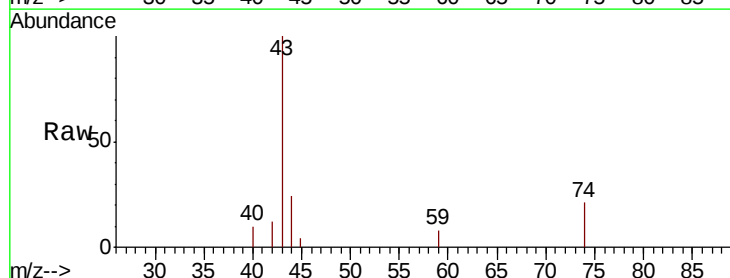
Acq: 17 Aug 2018 18:31

Tgt Ion: 43 Resp: 17793

Ion Ratio Lower Upper

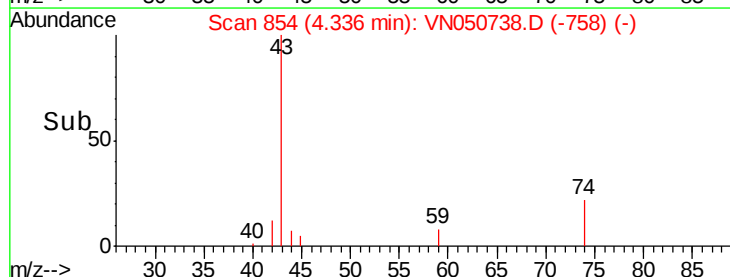
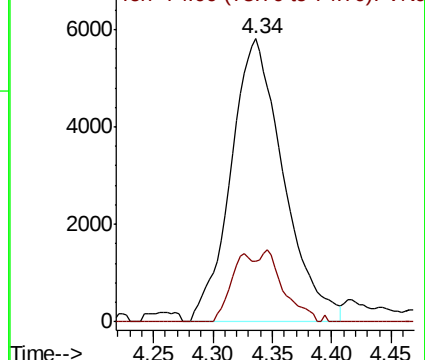
43 100

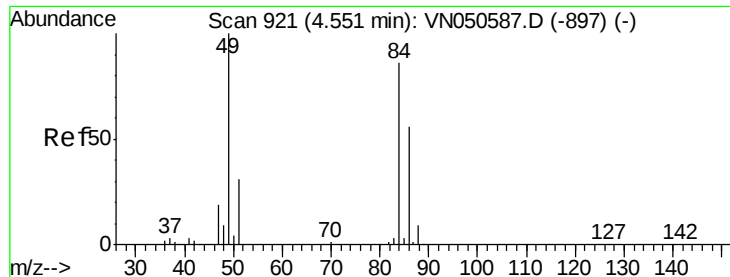
74 11.0 19.7 29.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

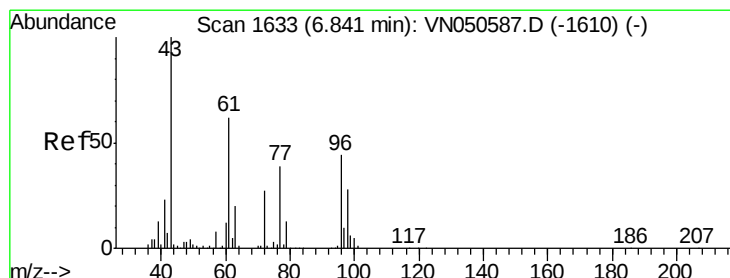
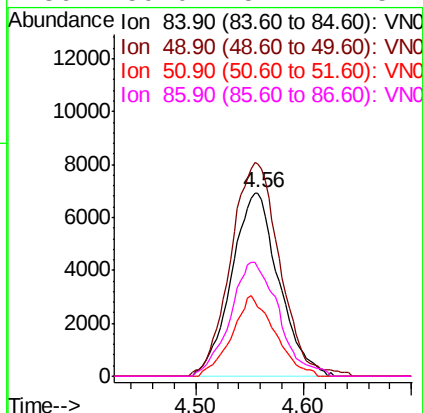
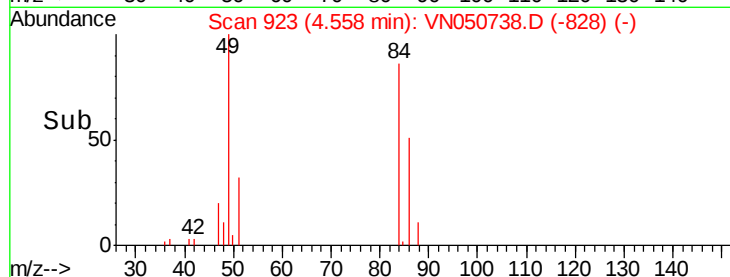
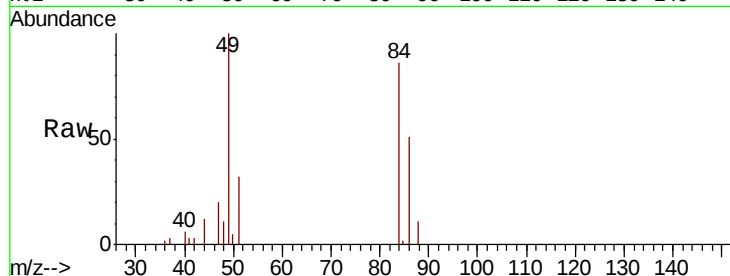




#20
Methvlene Chloride
Concen: 1.75 ug/l
RT: 4.56 min Scan# 923
Delta R.T. 0.01 min
Lab File: VN050738.D
Acq: 17 Aug 2018 18:31

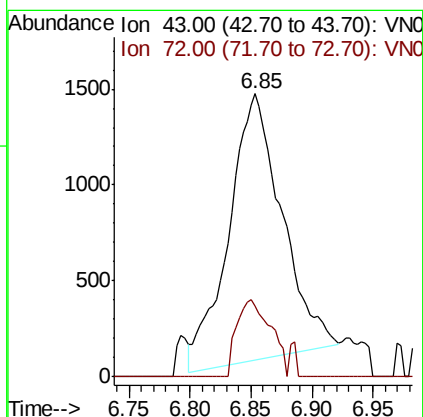
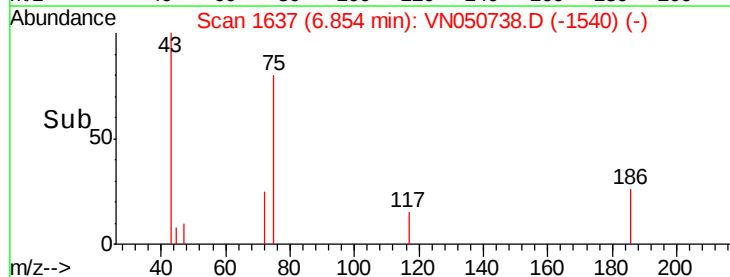
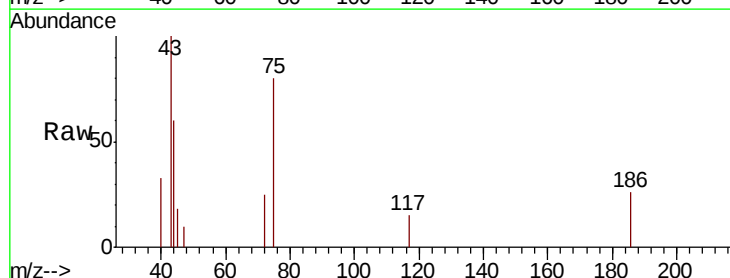
Instrument :
MSVOA_N
ClientSampled :

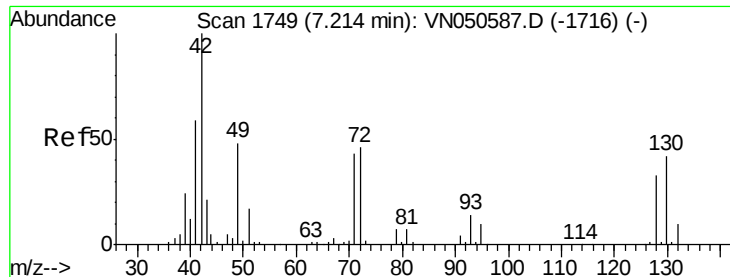
Tot Ion: 84 Resp: 21092
Ion Ratio Lower Upper
84 100
49 116.0 92.6 138.8
51 37.6 28.6 43.0
86 59.0 52.2 78.2



#25
2-Butanone
Concen: 1.38 ug/l
RT: 6.85 min Scan# 1637
Delta R.T. 0.01 min
Lab File: VN050738.D
Acq: 17 Aug 2018 18:31

Tgt Ion: 43 Resp: 4221
Ion Ratio Lower Upper
43 100
72 28.1 21.8 32.6





#29

Tetrahydrofuran

Concen: 0.47 ug/l

RT: 7.23 min Scan# 1754

Delta R.T. 0.02 min

Lab File: VN050738.D

Acq: 17 Aug 2018 18:31

Instrument :

MSVOA_N

ClientSampled :

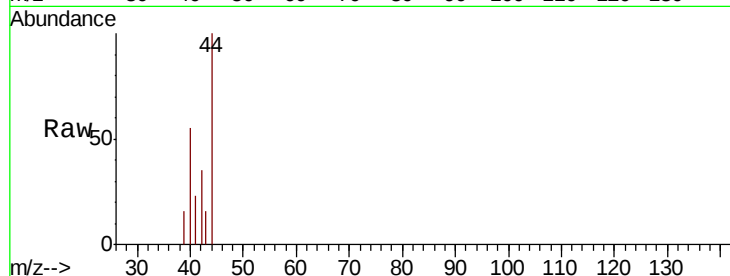
Tot Ion: 42 Resp: 750

Ion Ratio Lower Upper

42 100

72 0.0 35.8 53.6#

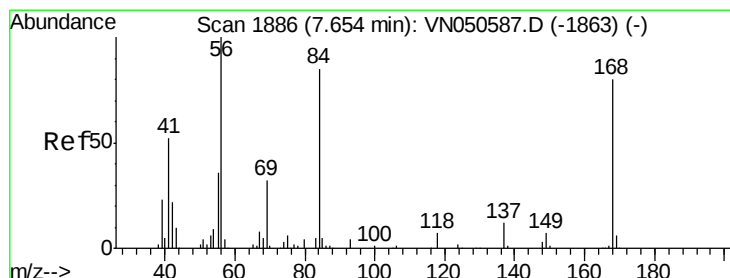
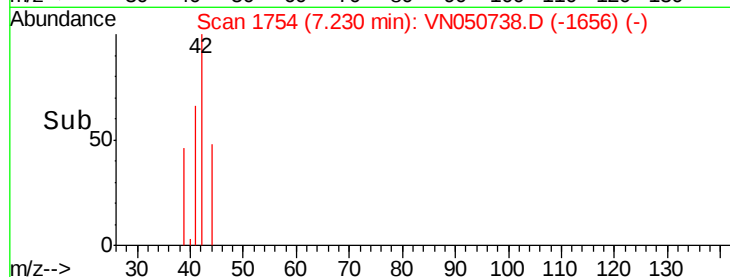
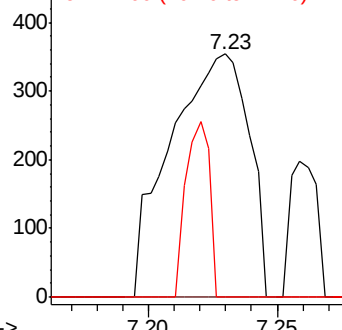
71 22.0 33.4 50.0#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 0.62 ug/l

RT: 7.66 min Scan# 1889

Delta R.T. 0.01 min

Lab File: VN050738.D

Acq: 17 Aug 2018 18:31

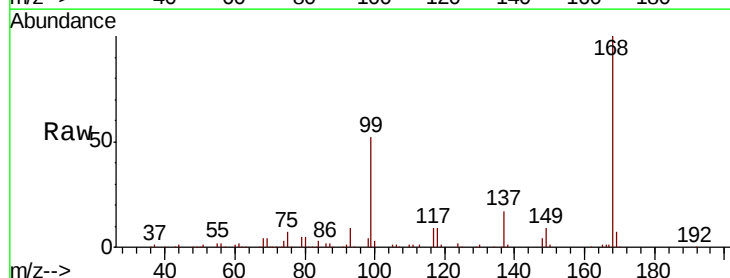
Tgt Ion: 56 Resp: 10813

Ion Ratio Lower Upper

56 100

69 191.8 25.8 38.6#

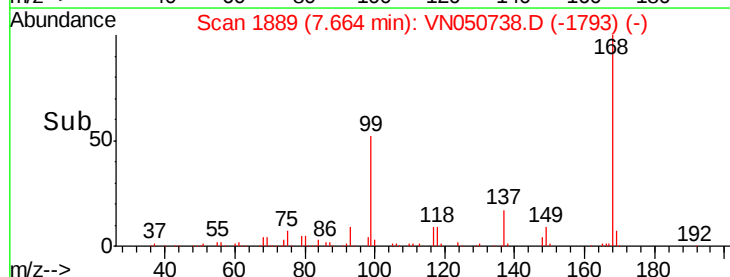
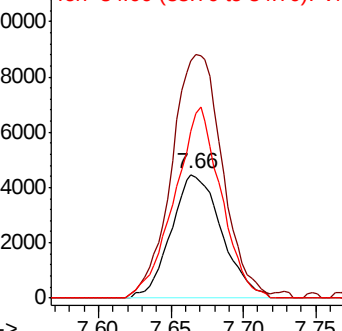
84 135.1 67.8 101.6#

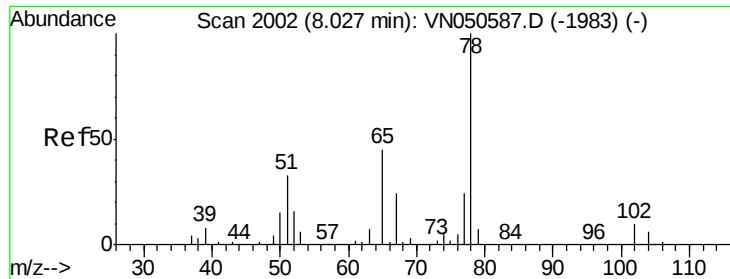


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

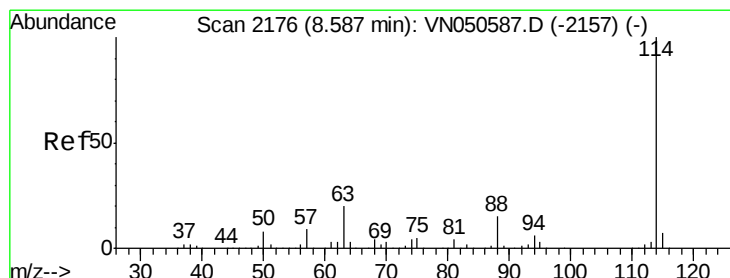
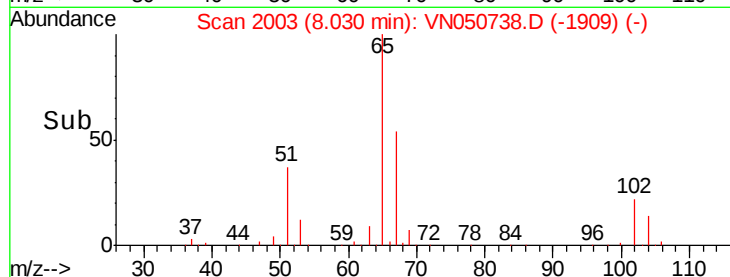
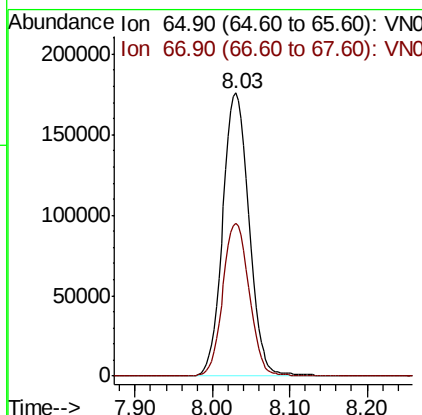
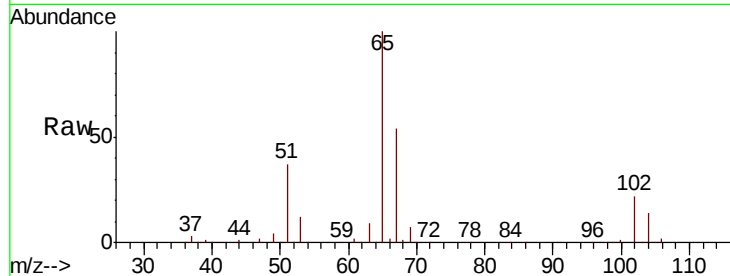




#33
 1,2-Dichloroethane-d4
 Concen: 55.89 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050738.D
 Acq: 17 Aug 2018 18:31

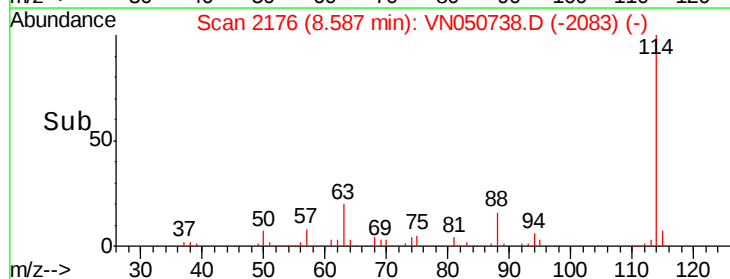
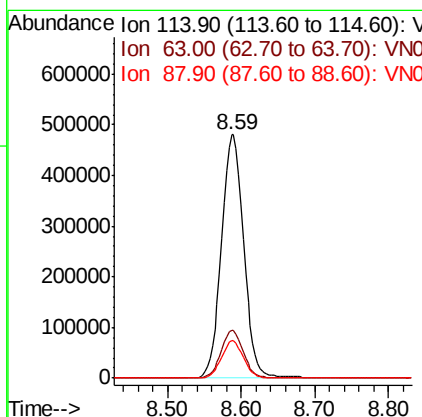
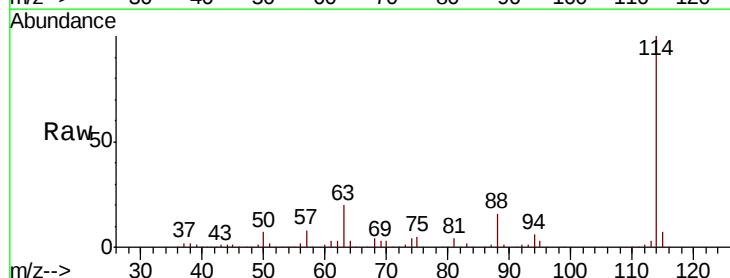
Instrument :
 MSVOA_N
 ClientSampleId :

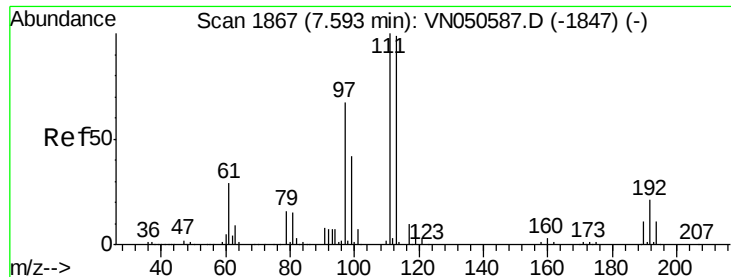
Tot Ion: 65 Resp: 416369
 Ion Ratio Lower Upper
 65 100
 67 54.2 0.0 109.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VN050738.D
 Acq: 17 Aug 2018 18:31

Tgt Ion: 114 Resp: 1011610
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 40.0
 88 15.6 0.0 30.8





#35

Dibromofluoromethane

Concen: 47.99 ug/l

RT: 7.59 min Scan# 1867

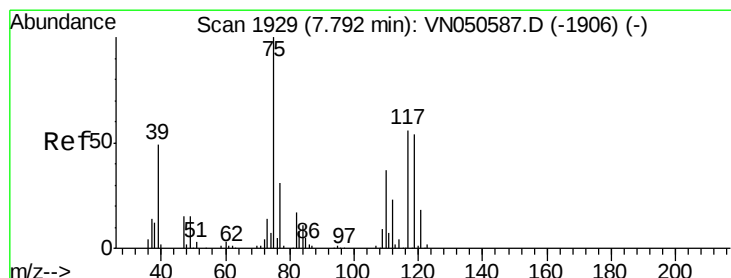
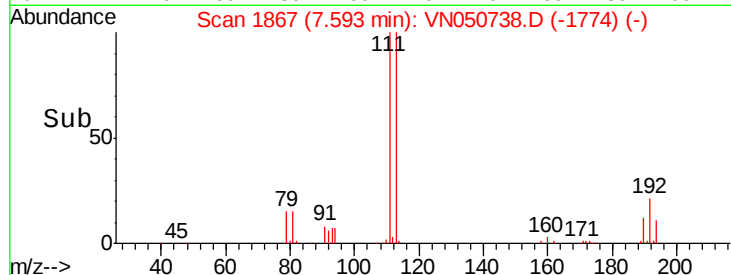
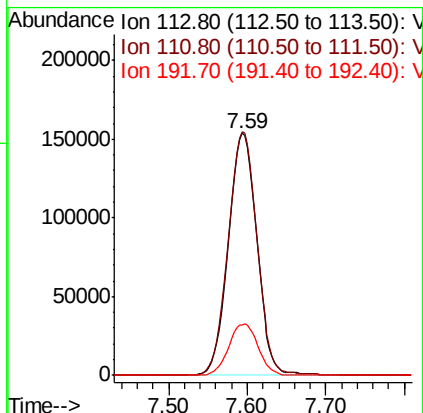
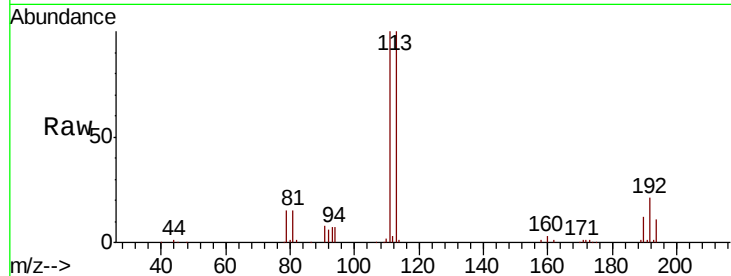
Delta R.T. 0.00 min

Lab File: VN050738.D

Acq: 17 Aug 2018 18:31

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	101.4	81.0	121.6
192	21.9	17.6	26.4



#36

1,1-Dichloropropene

Concen: 3.68 ug/l

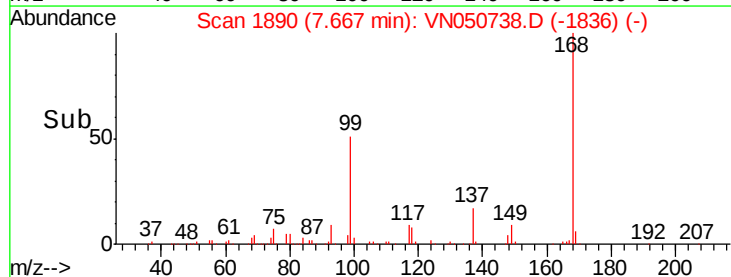
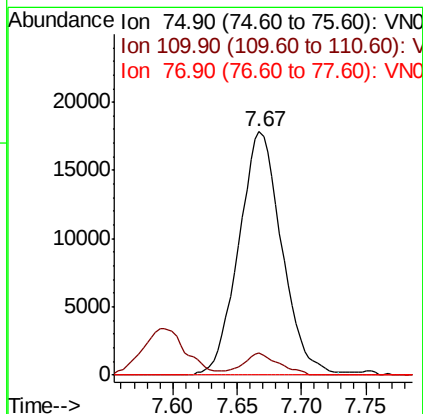
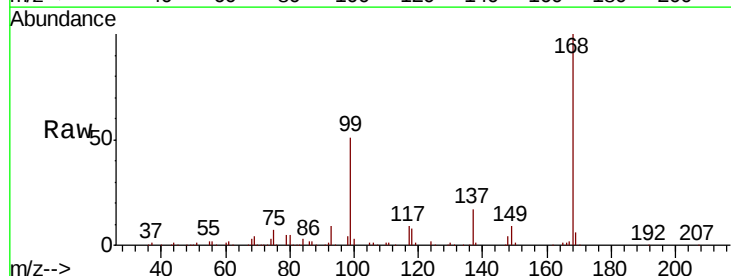
RT: 7.67 min Scan# 1890

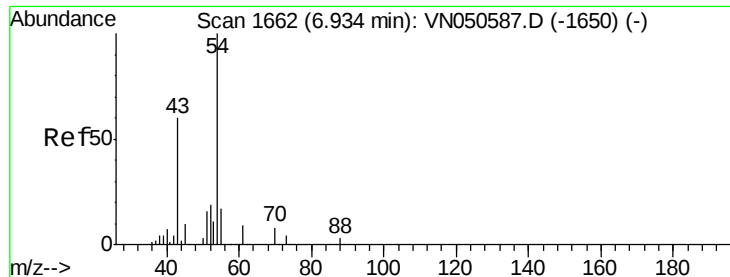
Delta R.T. -0.13 min

Lab File: VN050738.D

Acq: 17 Aug 2018 18:31

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.5	18.3	54.9#
77	0.0	25.0	37.4#

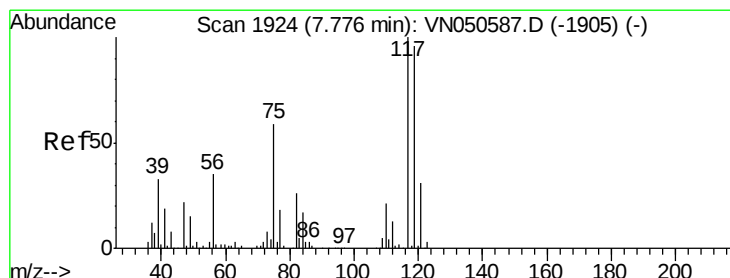
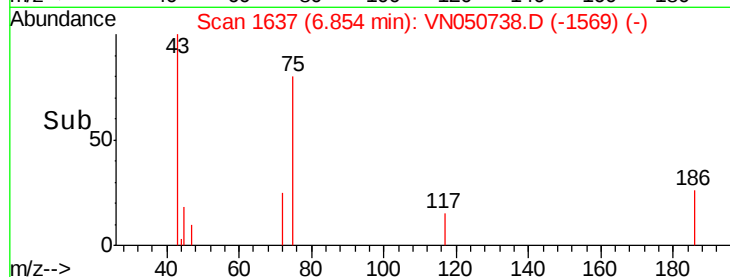
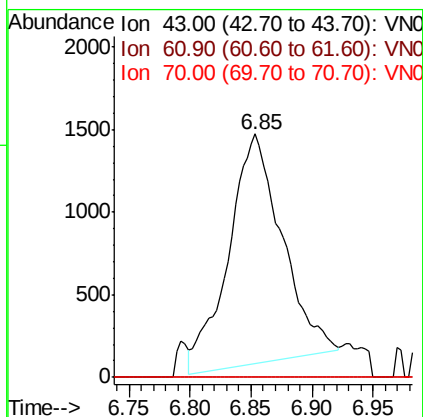
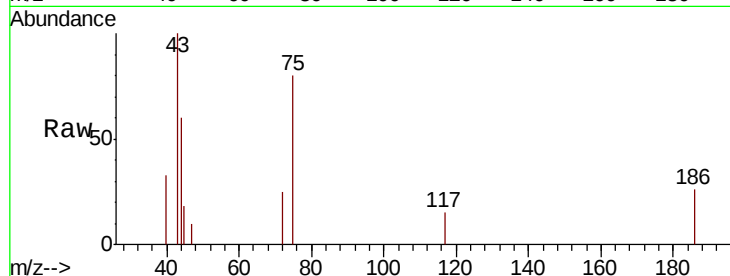




#37
Ethyl Acetate
Concen: 0.66 ug/l
RT: 6.85 min Scan# 1637
Delta R.T. -0.08 min
Lab File: VN050738.D
Acq: 17 Aug 2018 18:31

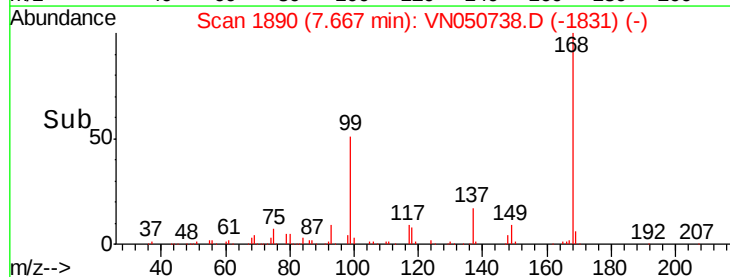
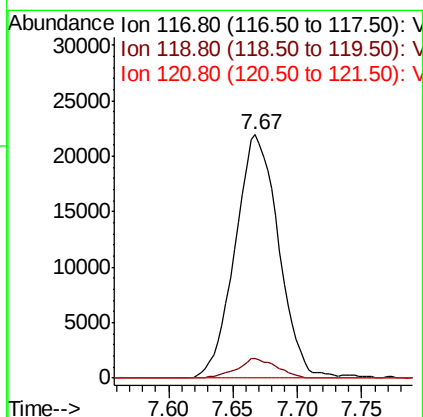
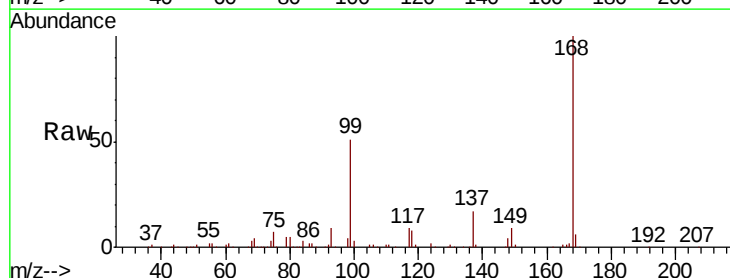
Instrument :
MSVOA_N
ClientSampleId :

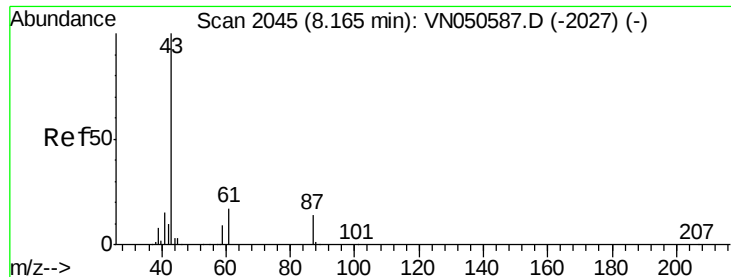
Tot Ion: 43 Resp: 4221
Ion Ratio Lower Upper
43 100
61 0.0 12.0 18.0#
70 0.0 8.5 12.7#



#38
Carbon Tetrachloride
Concen: 4.42 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. -0.11 min
Lab File: VN050738.D
Acq: 17 Aug 2018 18:31

Tgt Ion: 117 Resp: 51592
Ion Ratio Lower Upper
117 100
119 8.3 76.6 115.0#
121 0.0 25.0 37.6#



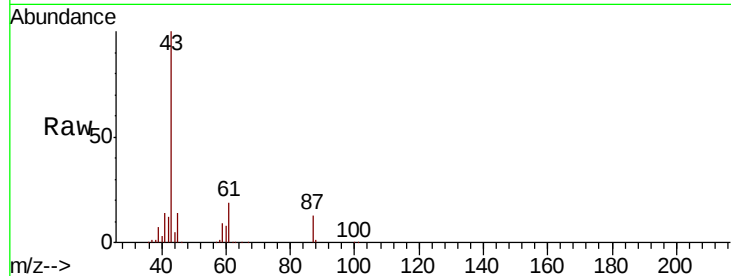


#43

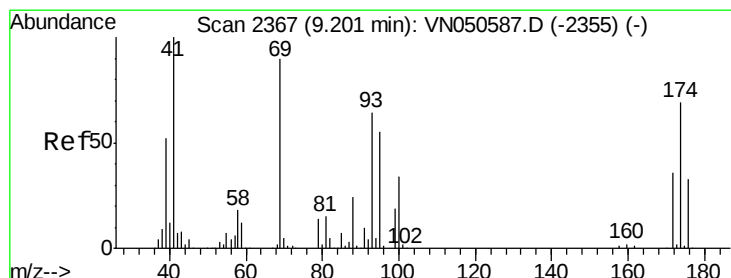
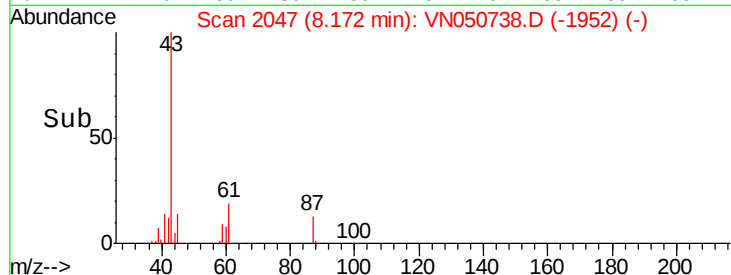
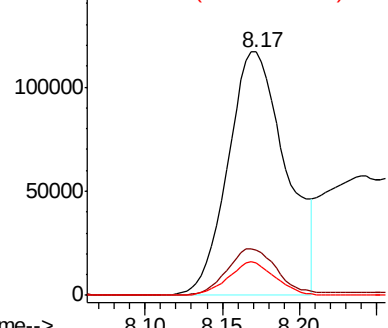
Isopropyl Acetate
 Concen: 26.23 ug/l
 RT: 8.17 min Scan# 2047
 Delta R.T. 0.01 min
 Lab File: VN050738.D
 Acq: 17 Aug 2018 18:31

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
43	100		
61	17.0	16.2	24.2
87	11.2	10.9	16.3



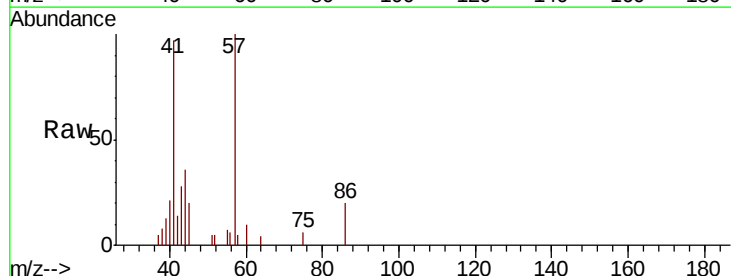
Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 61.00 (60.70 to 61.70): VN0
 Ion 87.00 (86.70 to 87.70): VN0



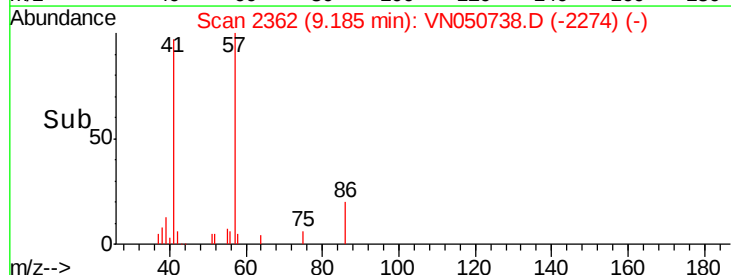
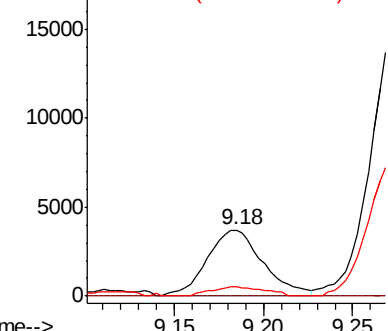
#48

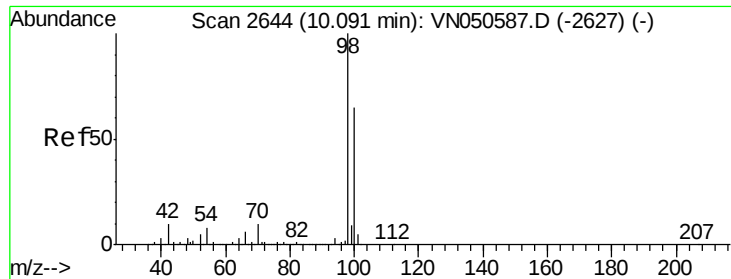
Methyl methacrylate
 Concen: 1.39 ug/l
 RT: 9.18 min Scan# 2362
 Delta R.T. -0.02 min
 Lab File: VN050738.D
 Acq: 17 Aug 2018 18:31

Tgt Ion	Ratio	Lower	Upper
41	100		
69	0.0	73.4	110.0#
39	13.2	43.0	64.6#



Abundance Ion 41.00 (40.70 to 41.70): VN0
 Ion 69.00 (68.70 to 69.70): VN0
 Ion 39.00 (38.70 to 39.70): VN0





#50

Toluene-d8

Concen: 45.06 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. 0.00 min

Lab File: VN050738.D

Acq: 17 Aug 2018 18:31

Instrument :

MSVOA_N

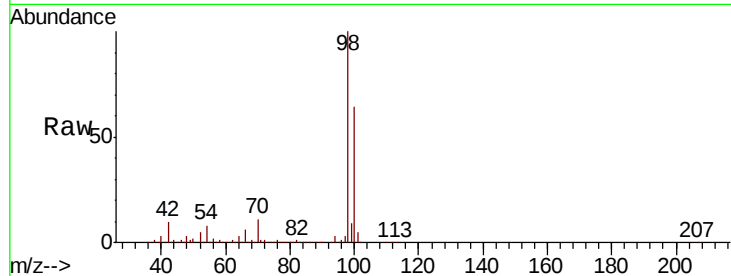
ClientSampleId :

Tot Ion: 98 Resp: 1369712

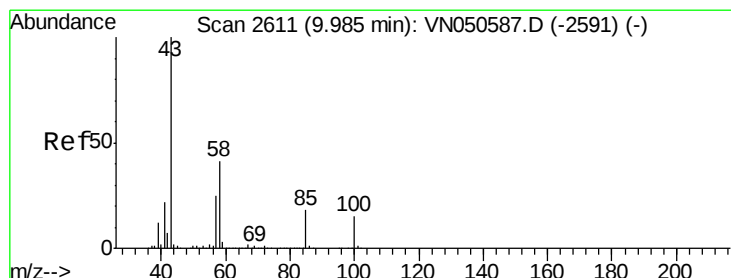
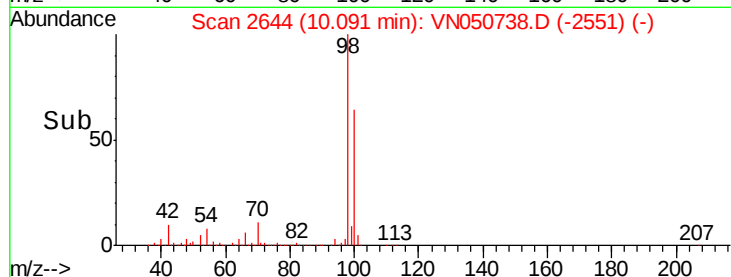
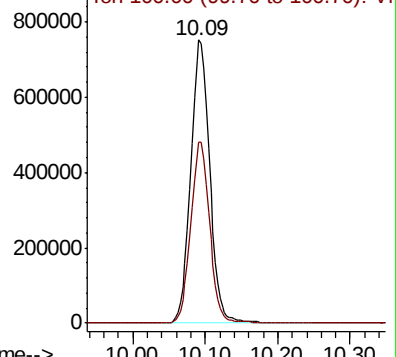
Ion Ratio Lower Upper

98 100

100 63.7 51.8 77.8



Abundance Ion 98.00 (97.70 to 98.70): VN050587.D (-2627) (-)



#51

4-Methyl-2-Pentanone

Concen: 0.35 ug/l

RT: 9.99 min Scan# 2611

Delta R.T. 0.00 min

Lab File: VN050738.D

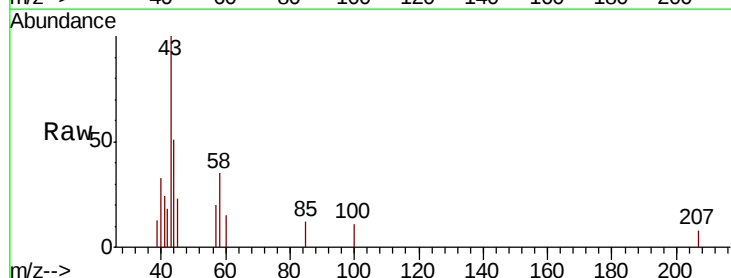
Acq: 17 Aug 2018 18:31

Tgt Ion: 43 Resp: 2712

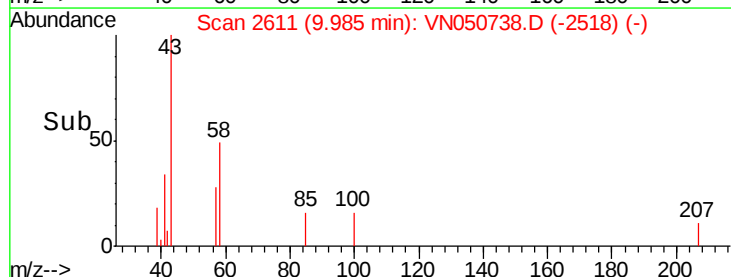
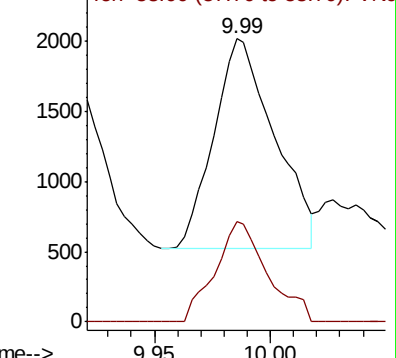
Ion Ratio Lower Upper

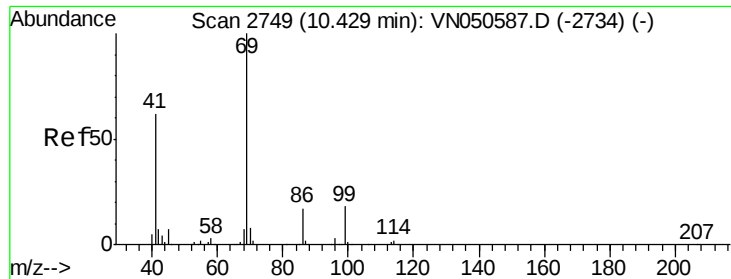
43 100

58 41.2 32.5 48.7



Abundance Ion 43.00 (42.70 to 43.70): VN050587.D (-2591) (-)





#56

Ethyl methacrylate

Concen: 2.13 ug/l

RT: 10.23 min Scan# 2686

Delta R.T. -0.20 min

Lab File: VN050738.D

Acq: 17 Aug 2018 18:31

Instrument :

MSVOA_N

ClientSampled :

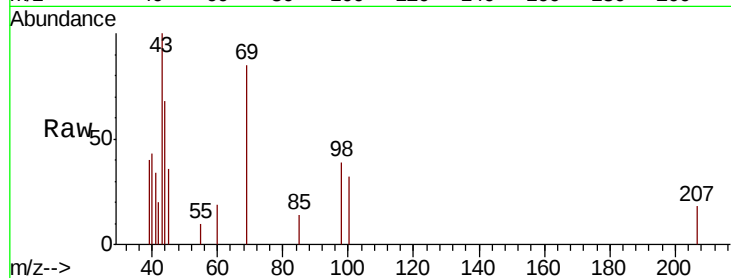
Tot Ion: 69 Resp: 2286

Ion Ratio Lower Upper

69 100

41 61.5 49.7 74.5

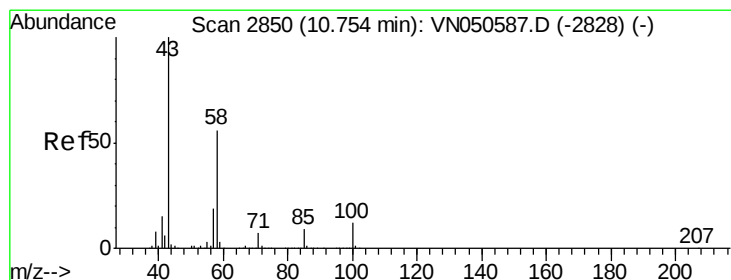
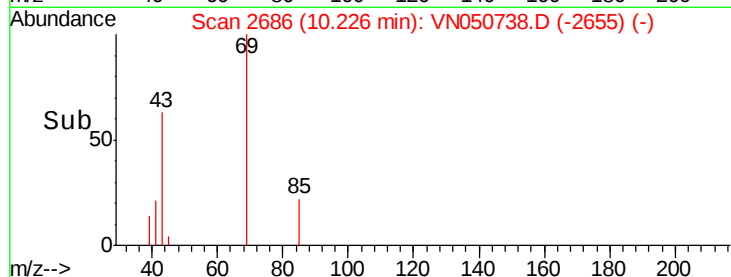
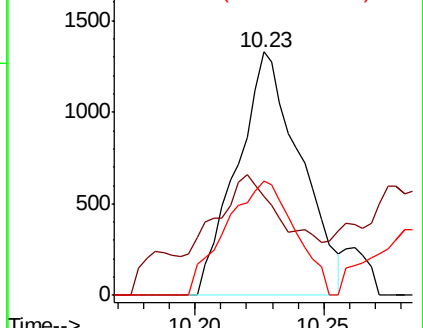
39 51.5 24.2 36.2#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#59

2-Hexanone

Concen: 3.51 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050738.D

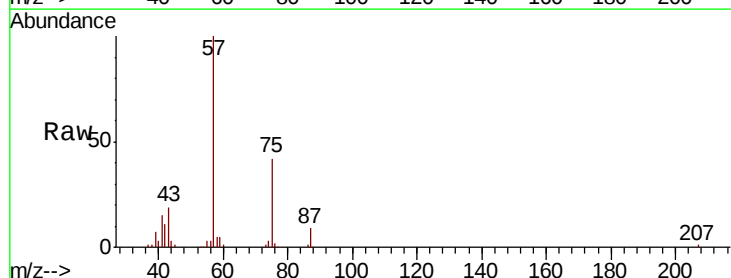
Acq: 17 Aug 2018 18:31

Tgt Ion: 43 Resp: 17775

Ion Ratio Lower Upper

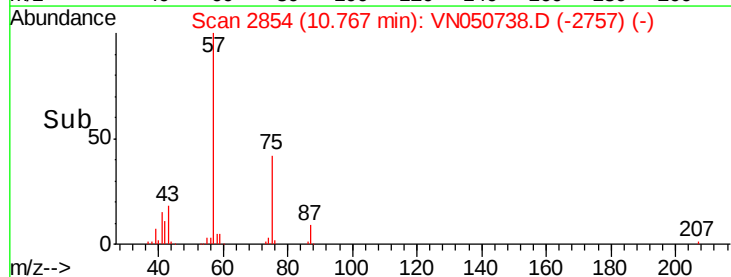
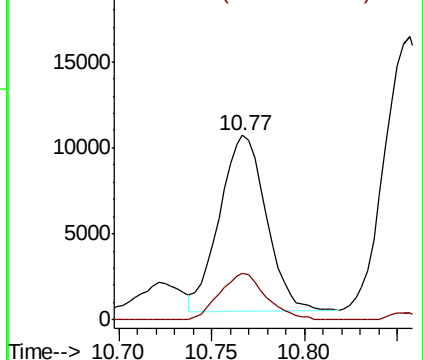
43 100

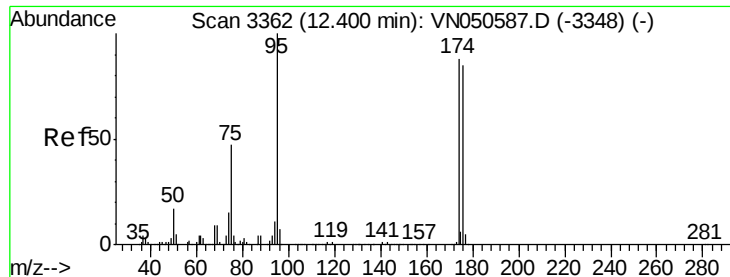
58 26.4 28.0 84.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 38.16 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050738.D

Acq: 17 Aug 2018 18:31

Instrument :

MSVOA_N

ClientSampleId :

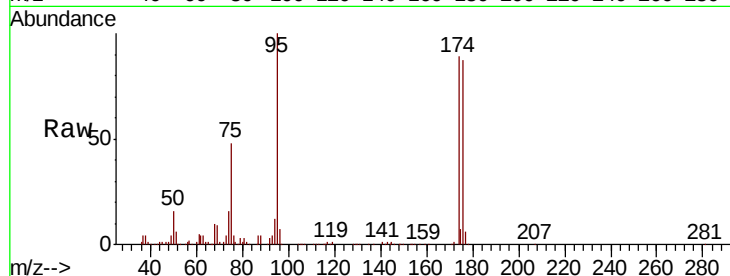
Tot Ion: 95 Resp: 383154

Ion Ratio Lower Upper

95 100

174 90.8 0.0 177.8

176 87.7 0.0 175.0



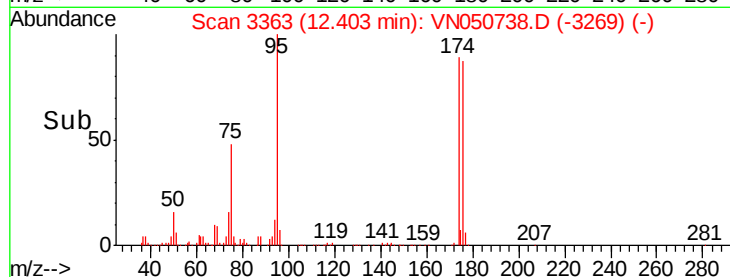
Abundance Ion 94.90 (94.60 to 95.60): VN050738.D (-3269) (-)

Ion 173.80 (173.50 to 174.50): VN050738.D (-3269) (-)

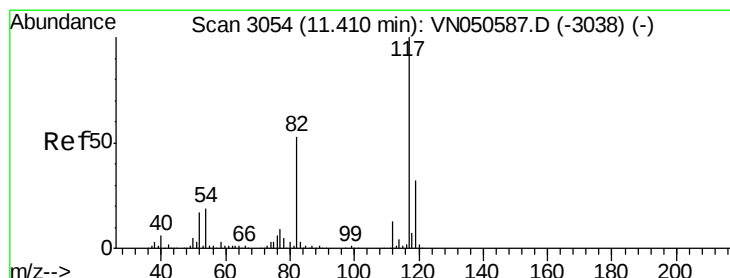
Ion 175.80 (175.50 to 176.50): VN050738.D (-3269) (-)

12.40

Time-->



Time-->



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. 0.00 min

Lab File: VN050738.D

Acq: 17 Aug 2018 18:31

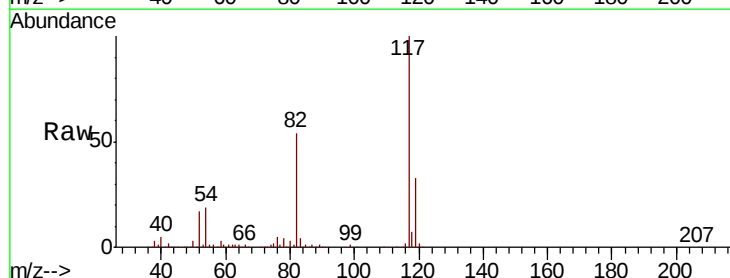
Tgt Ion: 117 Resp: 871236

Ion Ratio Lower Upper

117 100

82 54.4 42.4 63.6

119 32.7 25.8 38.8



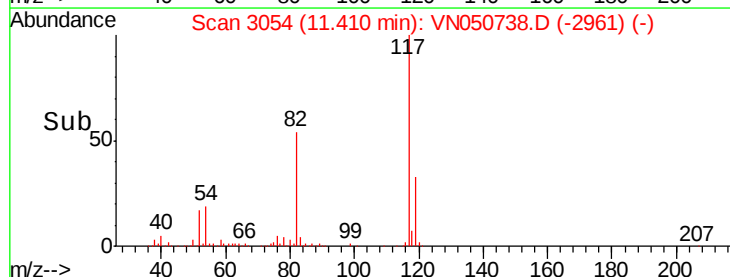
Abundance Ion 116.90 (116.60 to 117.60): VN050738.D (-2961) (-)

Ion 82.00 (81.70 to 82.70): VN050738.D (-2961) (-)

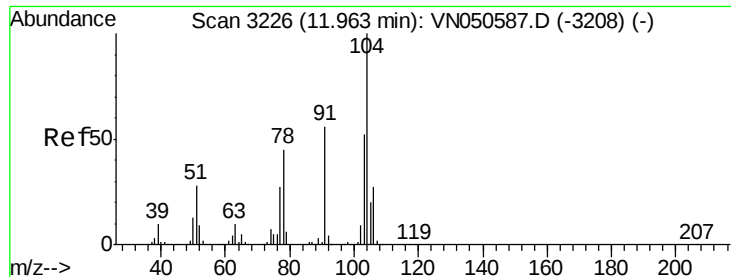
Ion 118.90 (118.60 to 119.60): VN050738.D (-2961) (-)

11.41

Time-->



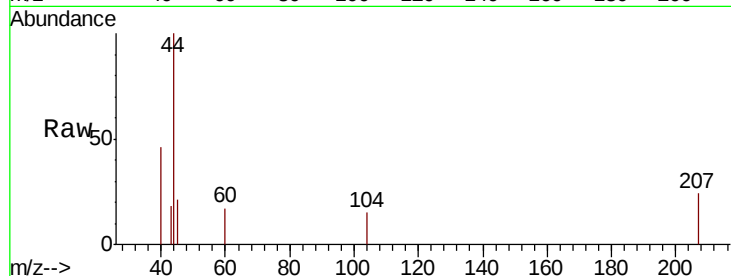
Time-->



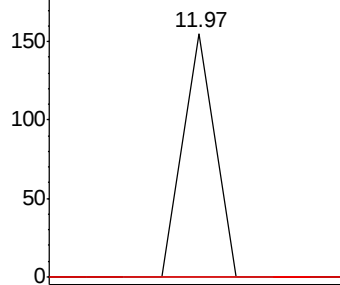
#70
Stvrene
Concen: 0.94 ug/l
RT: 11.97 min Scan# 3229
Delta R.T. 0.01 min
Lab File: VN050738.D
Acq: 17 Aug 2018 18:31

Instrument :
MSVOA_N
ClientSampleId :

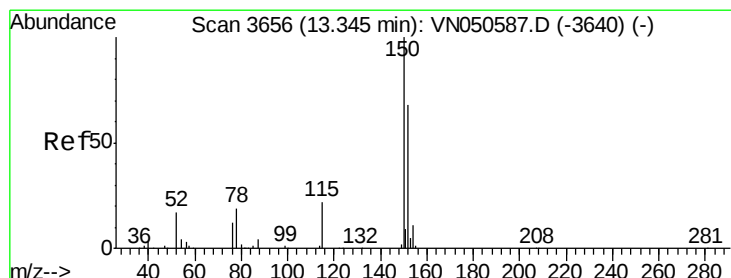
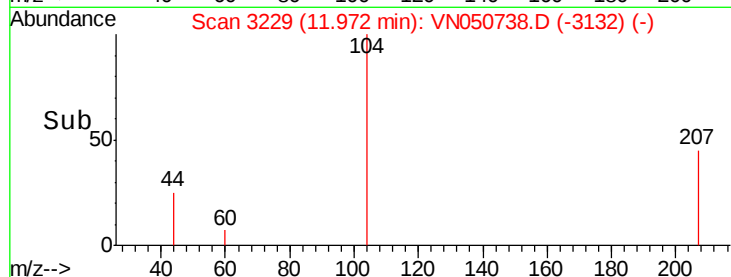
Tot Ion	Ratio	Lower	Upper
104	100		
78	0.0	39.1	58.7#
103	0.0	44.9	67.3#



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): V
Ion 103.00 (102.70 to 103.70): V

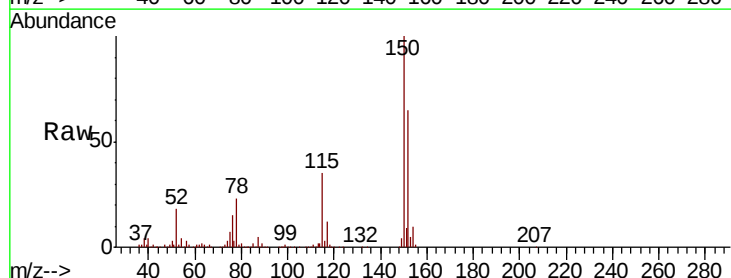


Time--> 11.96 11.97 11.98

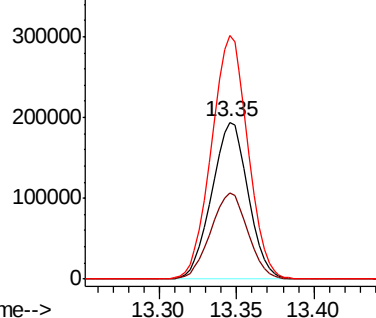


#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3656
Delta R.T. 0.00 min
Lab File: VN050738.D
Acq: 17 Aug 2018 18:31

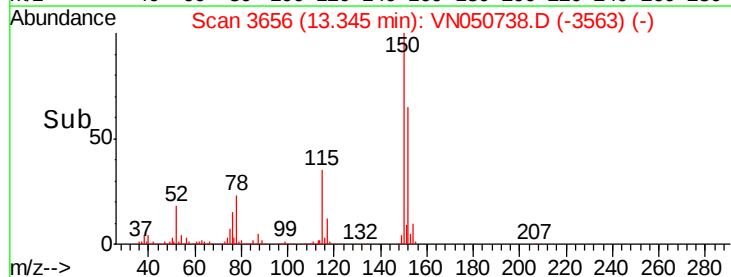
Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.8	28.1	84.2
150	154.8	0.0	347.8

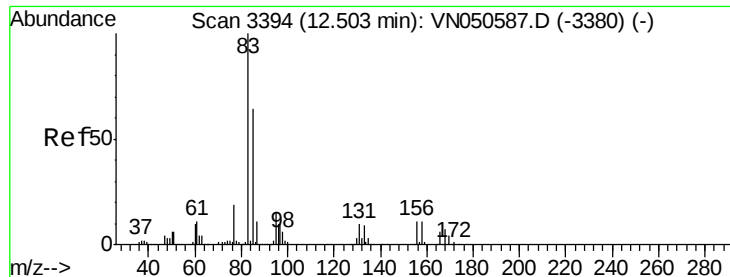


Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



Time--> 13.30 13.35 13.40





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3363

Delta R.T. -0.10 min

Lab File: VN050738.D

Acq: 17 Aug 2018 18:31

Instrument :

MSVOA_N

ClientSampled :

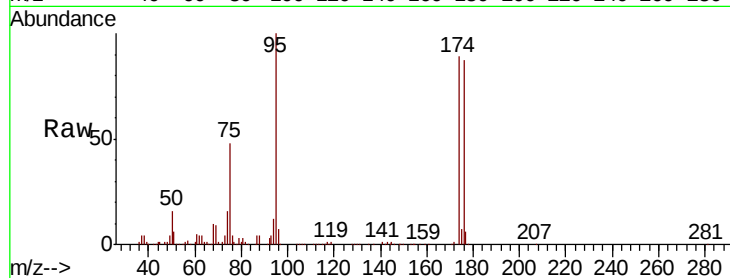
Tot Ion: 83 Resp: 235

Ion Ratio Lower Upper

83 100

131 175.3 5.3 15.9#

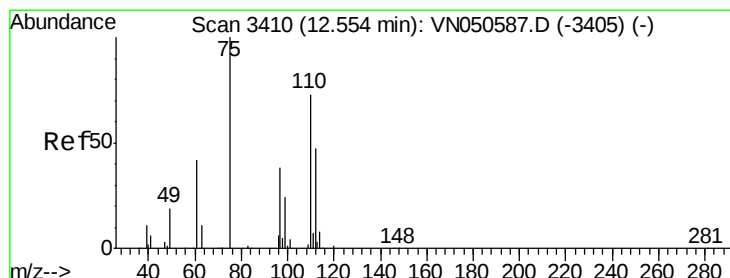
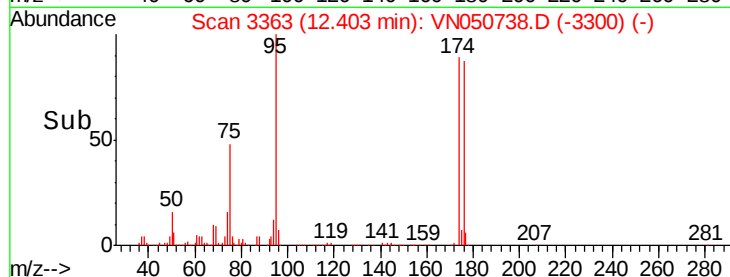
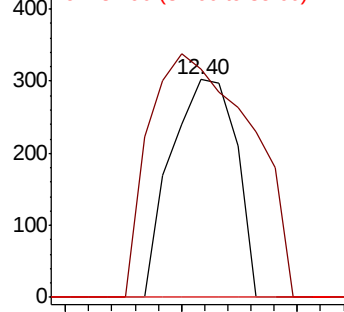
85 0.0 32.1 96.5#



Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): VNO

Ion 84.90 (84.60 to 85.60): VNO



#76

1,2,3-Trichloropropane

Concen: 35.38 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050738.D

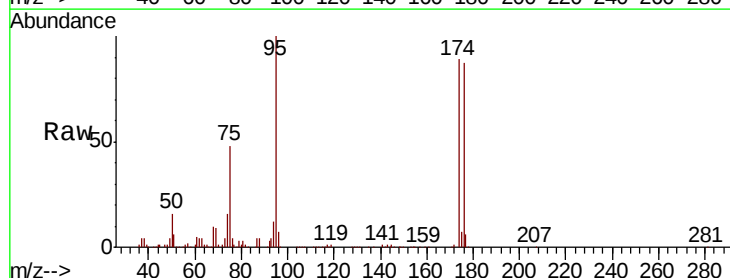
Acq: 17 Aug 2018 18:31

Tgt Ion: 75 Resp: 183942

Ion Ratio Lower Upper

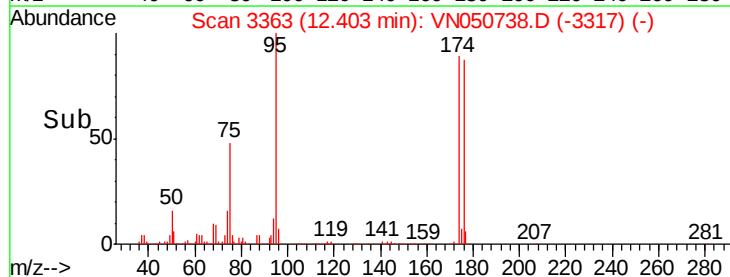
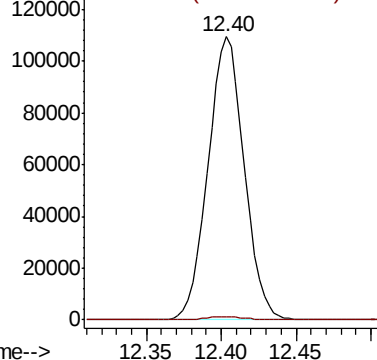
75 100

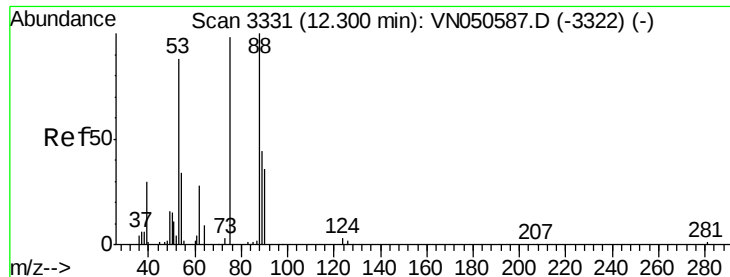
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO





#81

trans-1,4-Dichloro-2-butene

Concen: 128.15 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050738.D

Acq: 17 Aug 2018 18:31

Instrument :

MSVOA_N

ClientSampled :

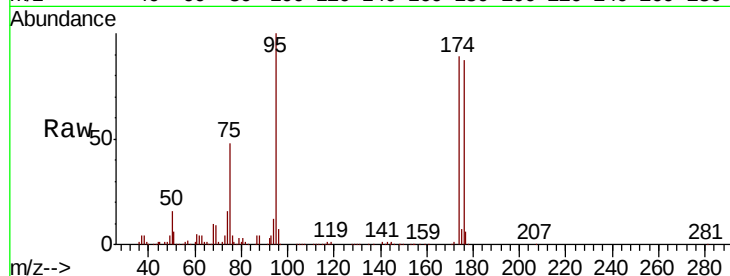
Tot Ion: 75 Resp: 183942

Ion Ratio Lower Upper

75 100

53 0.3 72.2 108.2#

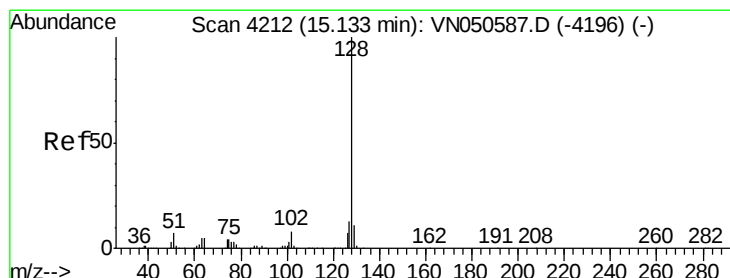
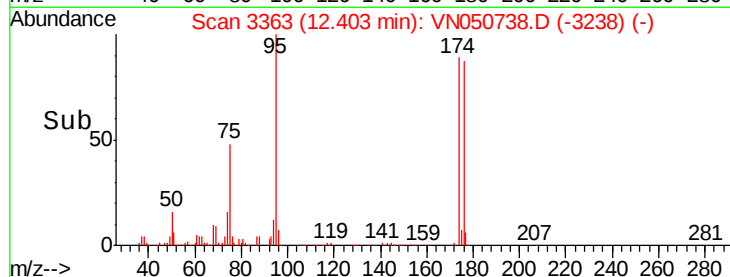
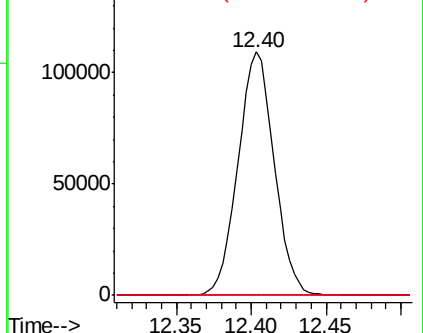
89 0.0 36.3 54.5#



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: 3.87 ug/l

RT: 15.13 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN050738.D

Acq: 17 Aug 2018 18:31

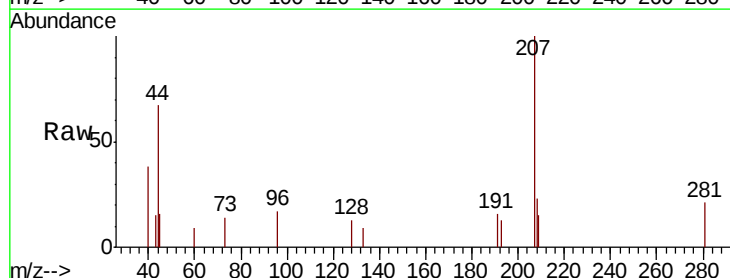
Tgt Ion: 128 Resp: 123

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 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

