

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082318\
 Data File : VN050855.D
 Acq On : 23 Aug 2018 16:11
 Operator : MD\SY
 Sample : J4638-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 24 01:12:15 2018
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 22 05:38:12 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	590973	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	969072	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	807763	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	278847	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	389575	54.76	ug/l	0.00
Spiked Amount			Recovery	=	109.52%	
35) Dibromofluoromethane	7.59	113	372545	48.32	ug/l	0.00
Spiked Amount			Recovery	=	96.64%	
50) Toluene-d8	10.09	98	1322329	45.88	ug/l	0.00
Spiked Amount			Recovery	=	91.76%	
62) 4-Bromofluorobenzene	12.40	95	346215	36.15	ug/l	0.00
Spiked Amount			Recovery	=	72.30%	

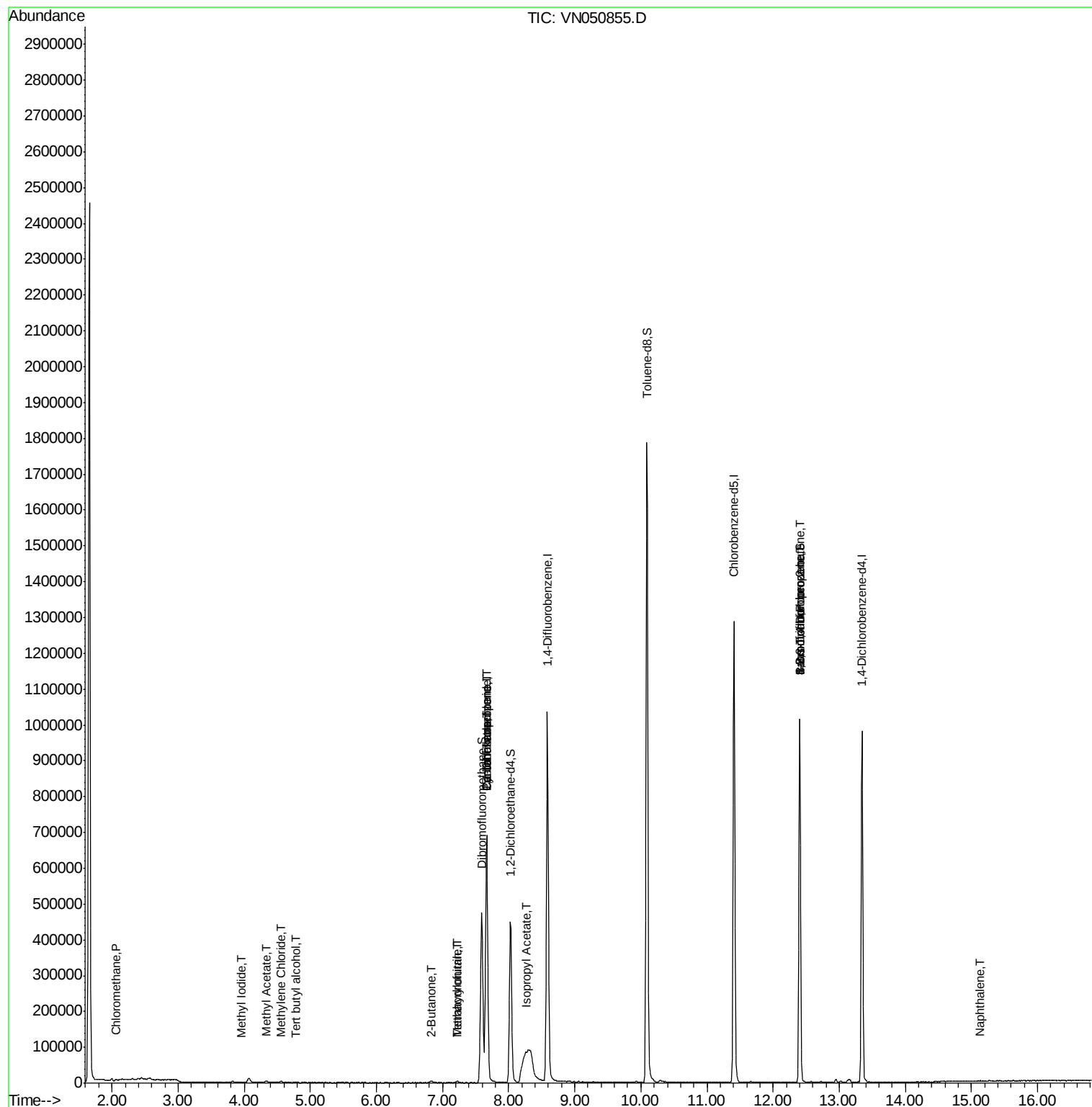
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2143	0.22	ug/l	96
5) Bromomethane	2.57	94	2107	Below Cal	#	70
10) Methyl Iodide	3.96	142	59	6.35	ug/l	# 43
11) Tert butyl alcohol	4.80	59	482	1.06	ug/l	# 72
16) Acetone	3.82	43	7574	Below Cal		97
18) Methyl Acetate	4.33	43	8222	1.22	ug/l	97
20) Methylene Chloride	4.55	84	2124	0.26	ug/l	# 83
25) 2-Butanone	6.84	43	729	0.25	ug/l	# 47
29) Tetrahydrofuran	7.22	42	2961	1.80	ug/l	# 48
31) Cyclohexane	7.66	56	10327	1.31	ug/l	# 1
36) 1,1-Dichloropropene	7.67	75	39745	3.48	ug/l	# 49
38) Carbon Tetrachloride	7.66	117	51390	4.45	ug/l	# 17
41) Methacrylonitrile	7.21	41	1100	0.31	ug/l	# 34
43) Isopropyl Acetate	8.26	43	133914	11.86	ug/l	# 59
71) Bromoform	12.40	173	3569	0.67	ug/l	# 1
75) 1,1,2,2-Tetrachloroethane	12.40	83	100	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	165183	33.82	ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.40	75	165183	114.33	ug/l	# 15
95) Naphthalene	15.13	128	2018	5.56	ug/l	# 69

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

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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: VN050855.D

Acq: 23 Aug 2018 16:11

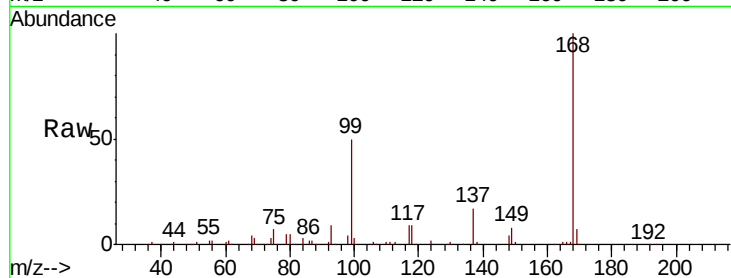
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 590973

Ion Ratio Lower Upper

168 100

99 50.2 39.6 59.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

150000

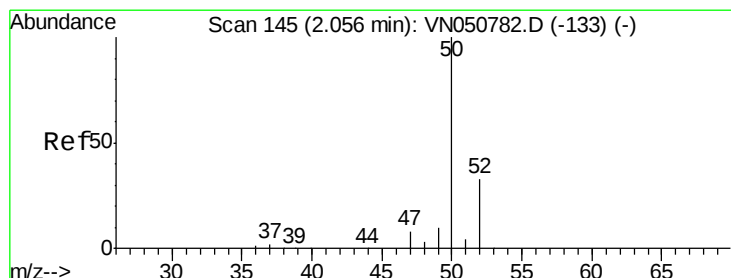
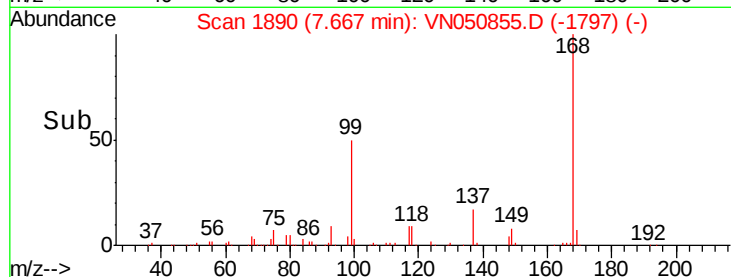
100000

50000

0

7.60 7.70 7.80

Time-->



#3

Chloromethane

Concen: 0.22 ug/l

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN050855.D

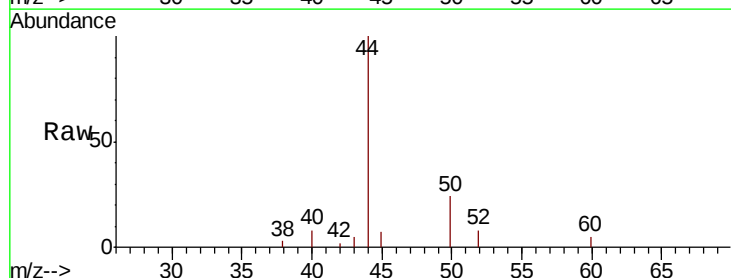
Acq: 23 Aug 2018 16:11

Tgt Ion: 50 Resp: 2143

Ion Ratio Lower Upper

50 100

52 35.0 26.3 39.5



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.06

1500

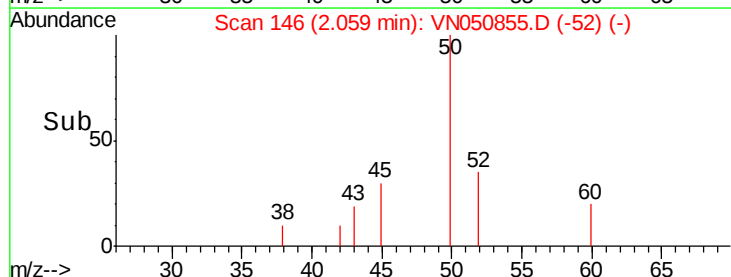
1000

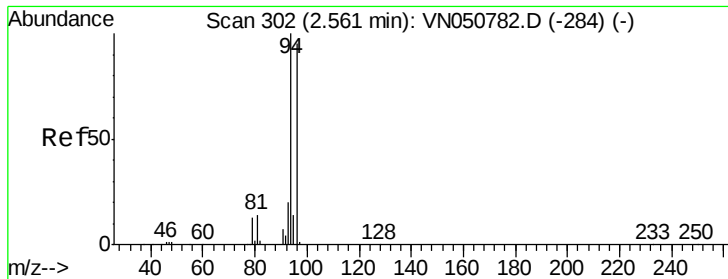
500

0

2.05 2.10

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 305

Delta R.T. 0.01 min

Lab File: VN050855.D

Acq: 23 Aug 2018 16:11

Instrument :

MSVOA_N

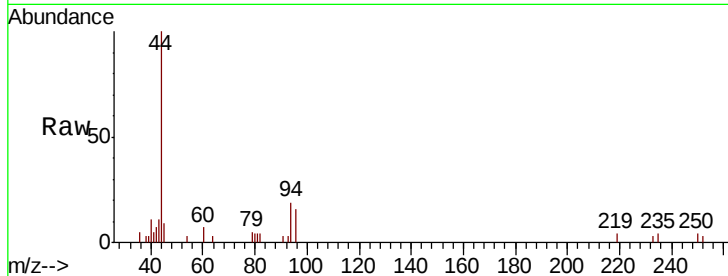
ClientSampled :

Tot Ion: 94 Resp: 2107

Ion Ratio Lower Upper

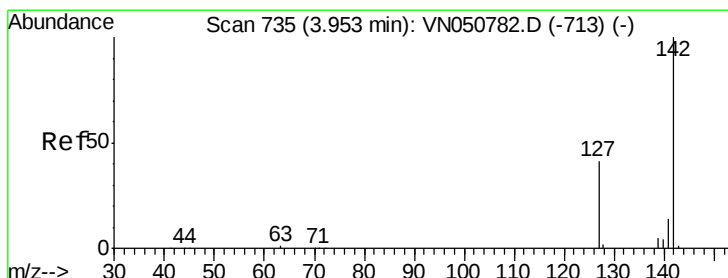
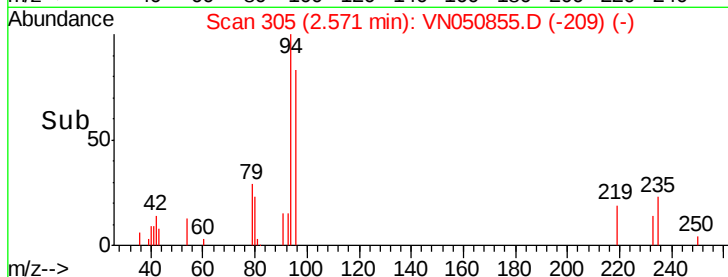
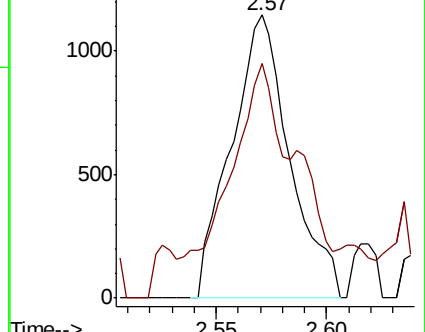
94 100

96 66.1 76.2 114.2#



Abundance Ion 93.90 (93.60 to 94.60): VN050782.D (-284) (-)

Ion 95.90 (95.60 to 96.60): VN050782.D (-284) (-)



#10

Methyl Iodide

Concen: 6.35 ug/l

RT: 3.96 min Scan# 737

Delta R.T. 0.01 min

Lab File: VN050855.D

Acq: 23 Aug 2018 16:11

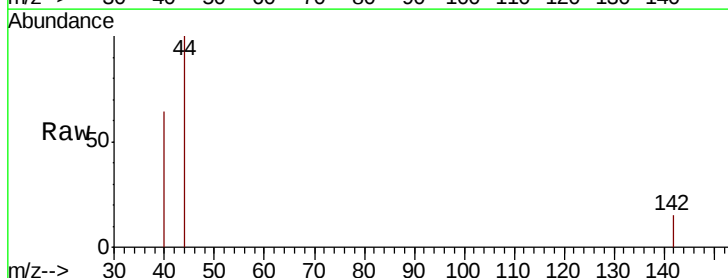
Tgt Ion: 142 Resp: 59

Ion Ratio Lower Upper

142 100

127 0.0 31.7 47.5#

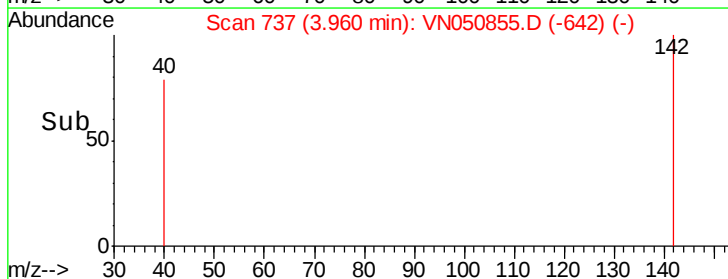
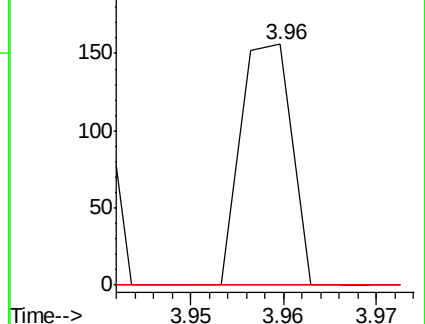
141 0.0 11.4 17.0#

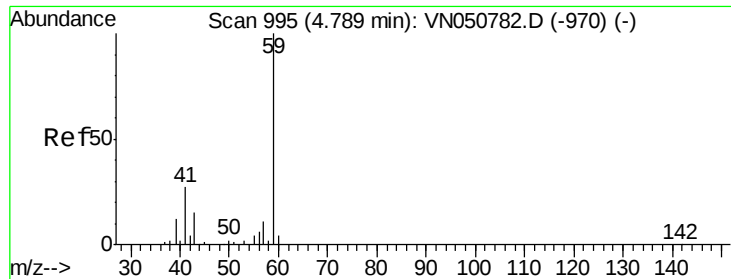


Abundance Ion 141.80 (141.50 to 142.50): VN050782.D (-713) (-)

Ion 126.80 (126.50 to 127.50): VN050782.D (-713) (-)

Ion 140.80 (140.50 to 141.50): VN050782.D (-713) (-)

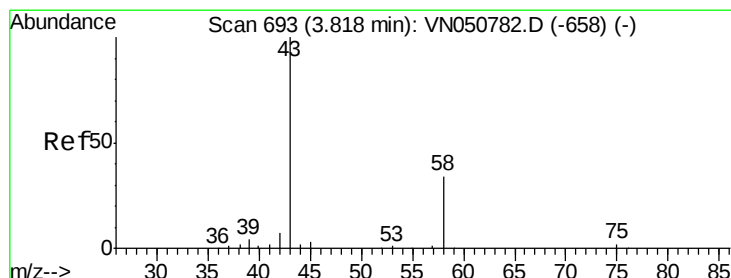
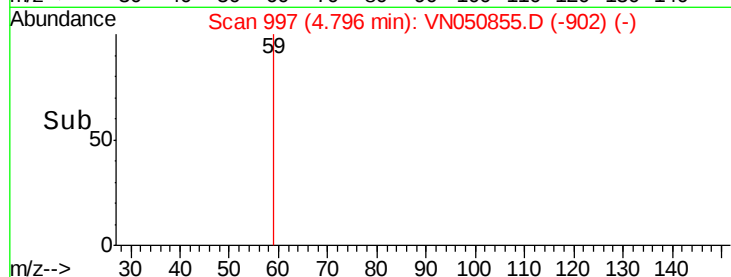
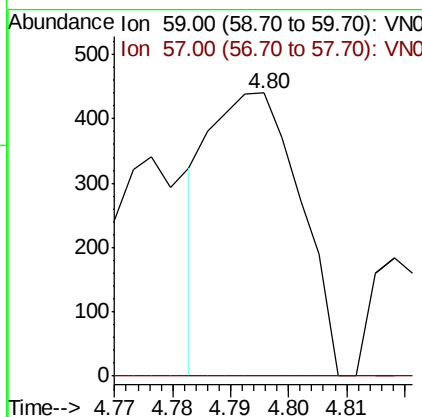
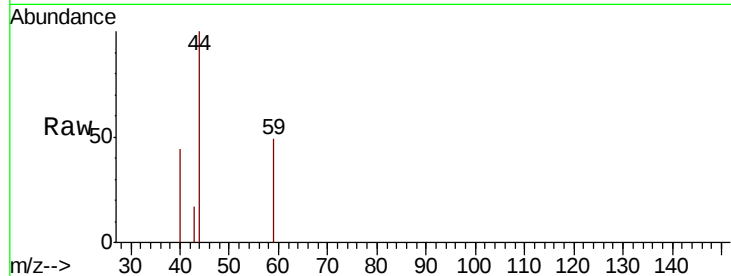




#11
Tert butyl alcohol
Concen: 1.06 ug/l
RT: 4.80 min Scan# 997
Delta R.T. 0.01 min
Lab File: VN050855.D
Acq: 23 Aug 2018 16:11

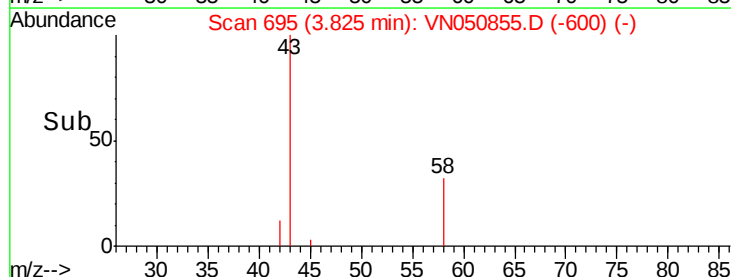
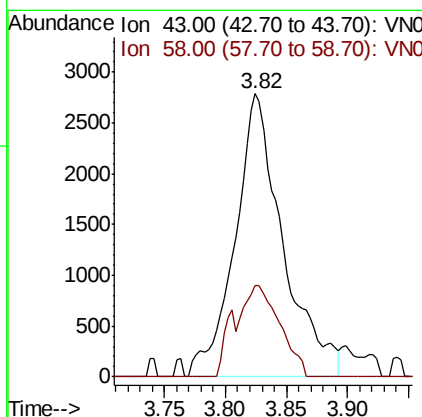
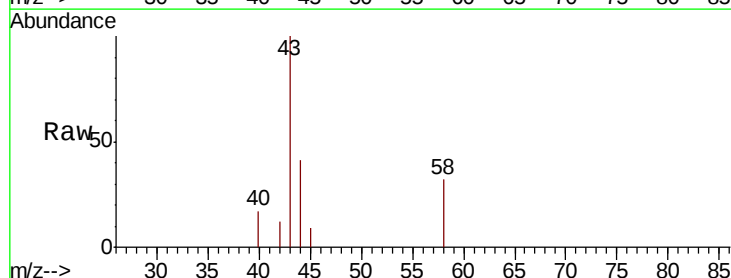
Instrument :
MSVOA_N
ClientSampled :

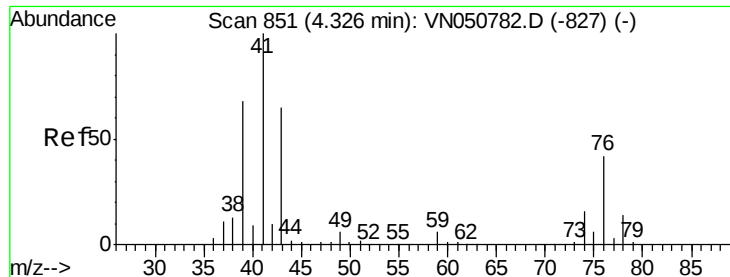
Tot Ion: 59 Resp: 482
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#16
Acetone
Concen: Below Cal
RT: 3.82 min Scan# 695
Delta R.T. 0.01 min
Lab File: VN050855.D
Acq: 23 Aug 2018 16:11

Tgt Ion: 43 Resp: 7574
Ion Ratio Lower Upper
43 100
58 32.1 27.2 40.8

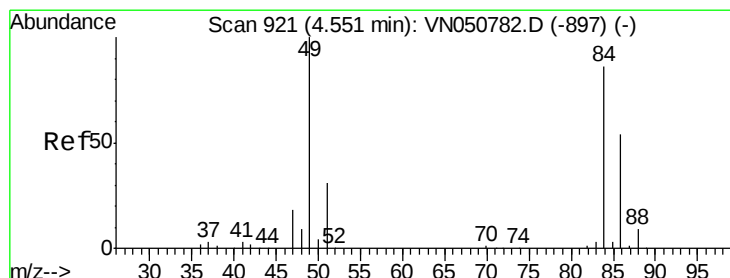
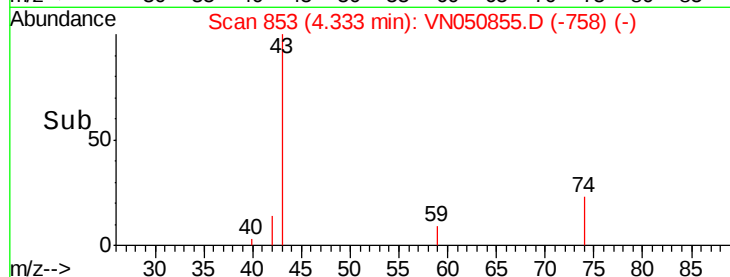
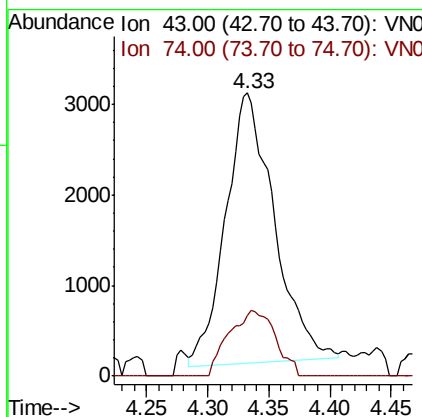
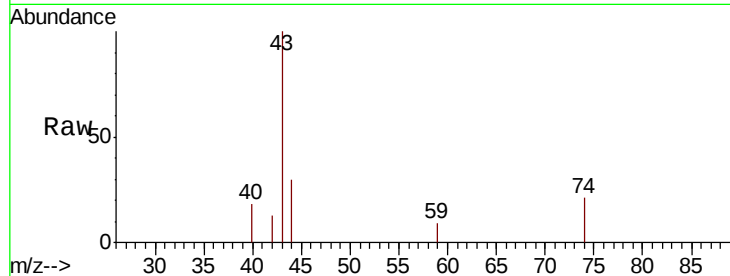




#18
Methyl Acetate
Concen: 1.22 ug/l
RT: 4.33 min Scan# 853
Delta R.T. 0.01 min
Lab File: VN050855.D
Acq: 23 Aug 2018 16:11

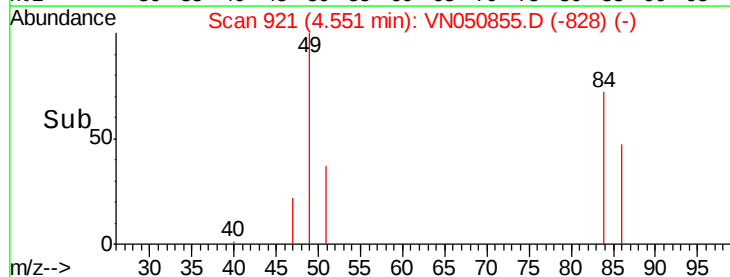
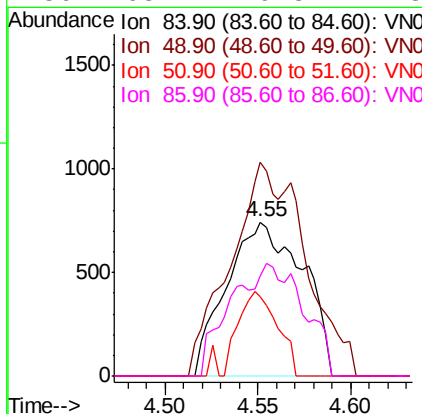
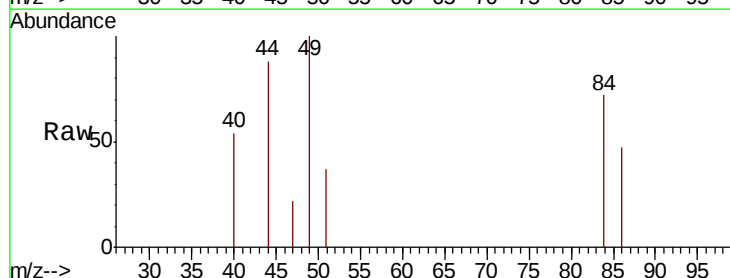
Instrument :
MSVOA_N
ClientSampleId :

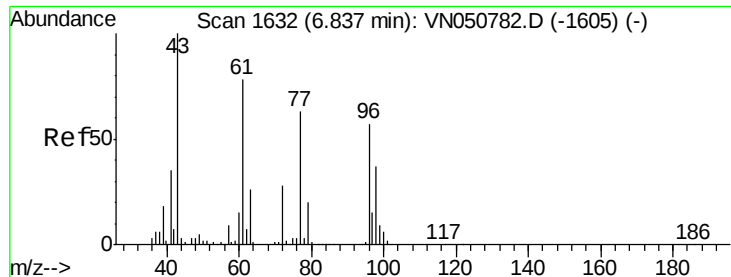
Tot Ion: 43 Resp: 8222
Ion Ratio Lower Upper
43 100
74 23.3 19.8 29.8



#20
Methylene Chloride
Concen: 0.26 ug/l
RT: 4.55 min Scan# 921
Delta R.T. -0.00 min
Lab File: VN050855.D
Acq: 23 Aug 2018 16:11

Tgt Ion: 84 Resp: 2124
Ion Ratio Lower Upper
84 100
49 138.9 93.2 139.8
51 51.8 29.0 43.6#
86 65.1 49.8 74.8





#25

2-Butanone

Concen: 0.25 ug/l

RT: 6.84 min Scan# 1634

Delta R.T. 0.01 min

Lab File: VN050855.D

Acq: 23 Aug 2018 16:11

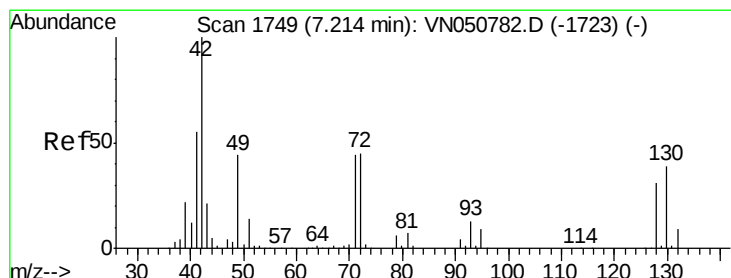
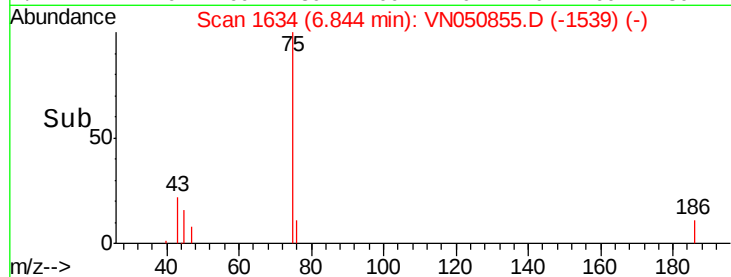
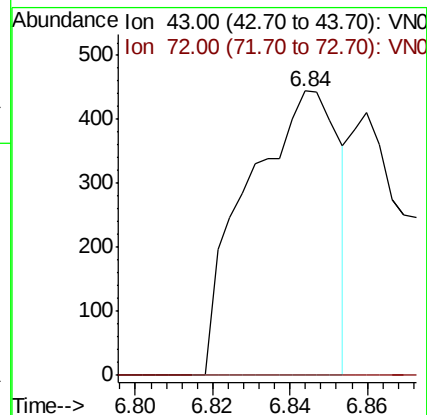
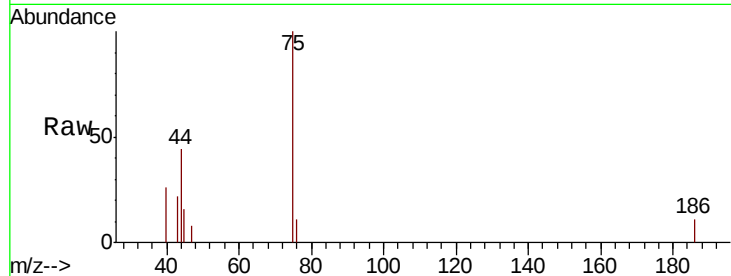
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 729

Ion Ratio Lower Upper

43 100

72 0.0 22.3 33.5#



#29

Tetrahydrofuran

Concen: 1.80 ug/l

RT: 7.22 min Scan# 1751

Delta R.T. 0.01 min

Lab File: VN050855.D

Acq: 23 Aug 2018 16:11

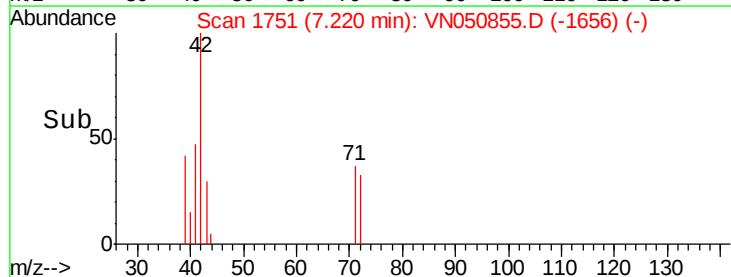
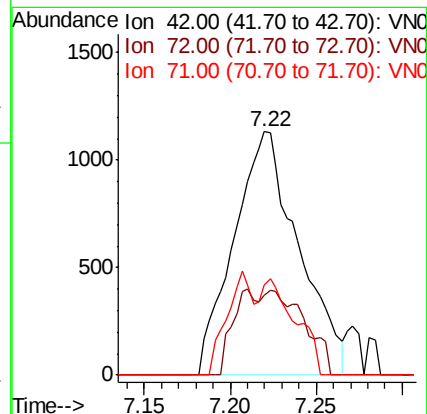
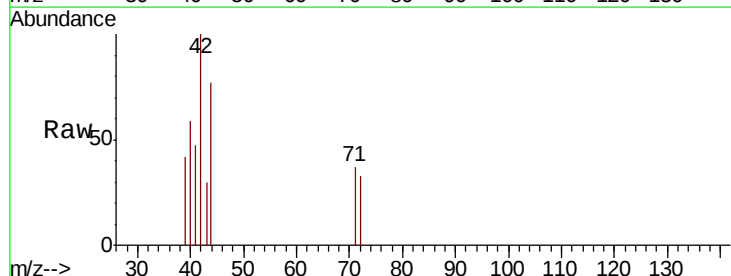
Tgt Ion: 42 Resp: 2961

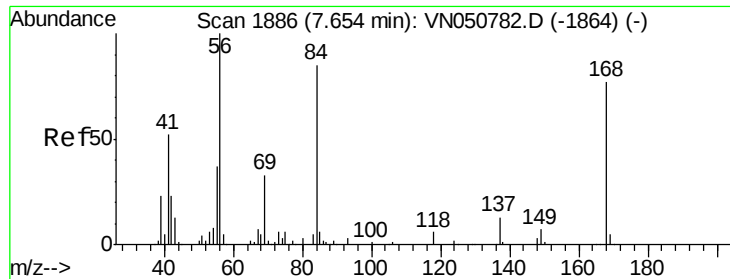
Ion Ratio Lower Upper

42 100

72 0.0 35.5 53.3#

71 19.8 33.7 50.5#

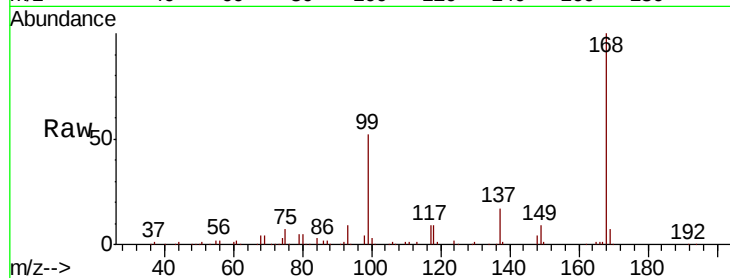




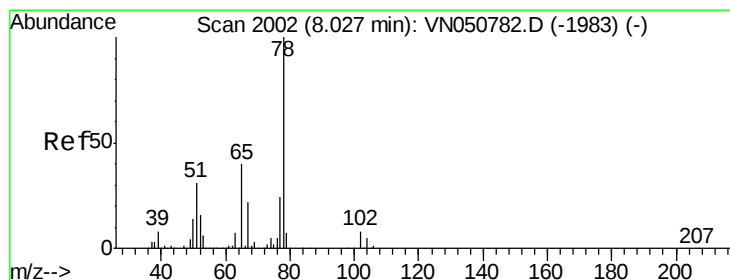
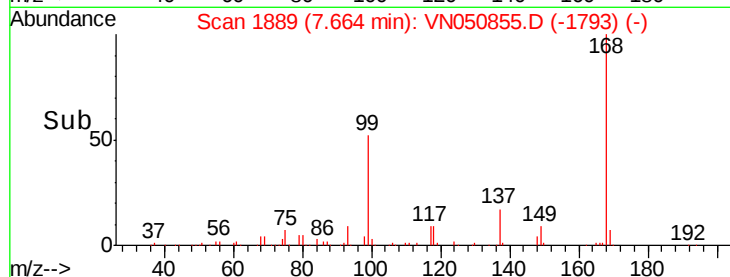
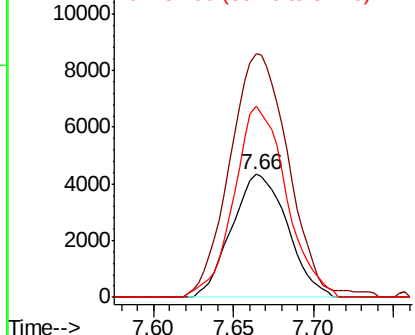
#31
Cyclohexane
Concen: 1.31 ug/l
RT: 7.66 min Scan# 1889
Delta R.T. 0.01 min
Lab File: VN050855.D
Acq: 23 Aug 2018 16:11

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 10327
Ion Ratio Lower Upper
56 100
69 194.6 26.2 39.4#
84 155.8 68.3 102.5#

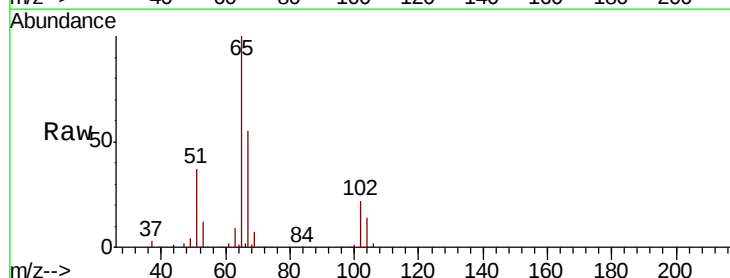


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

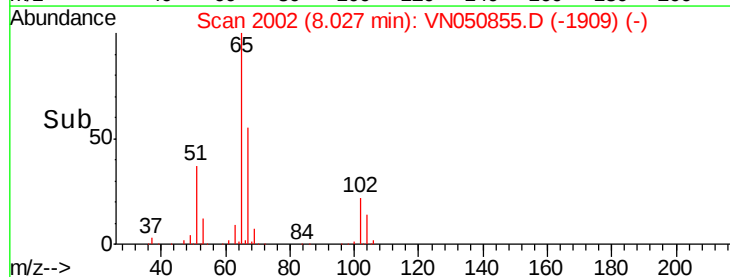
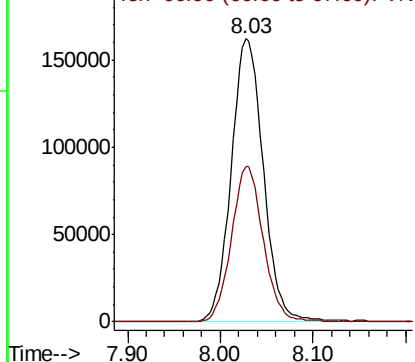


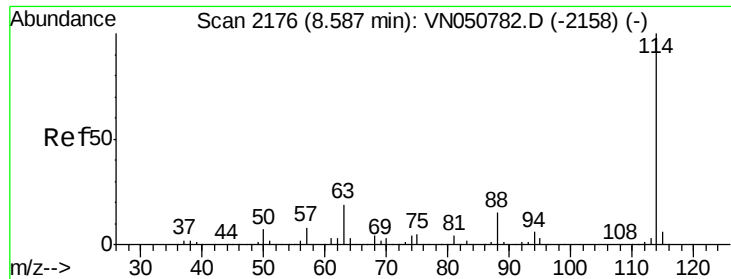
#33
1,2-Dichloroethane-d4
Concen: 54.76 ug/l
RT: 8.03 min Scan# 2002
Delta R.T. -0.00 min
Lab File: VN050855.D
Acq: 23 Aug 2018 16:11

Tgt Ion: 65 Resp: 389575
Ion Ratio Lower Upper
65 100
67 54.7 0.0 110.4



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

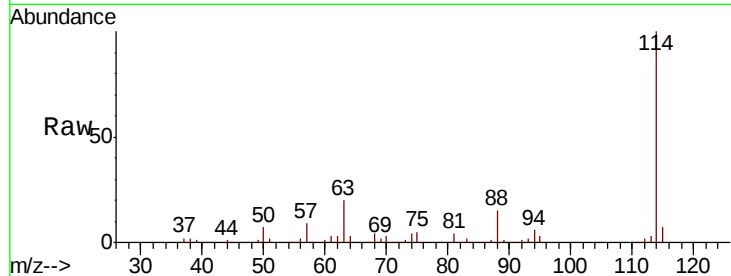




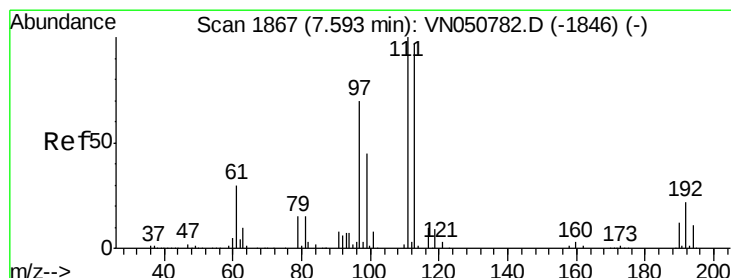
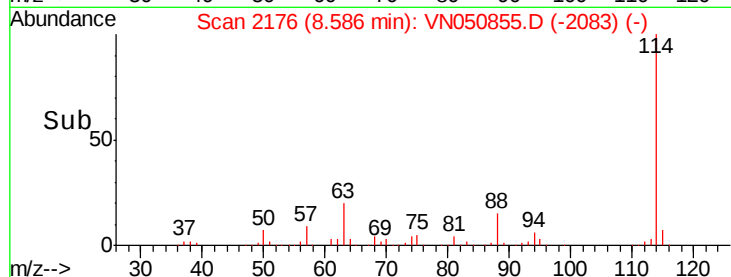
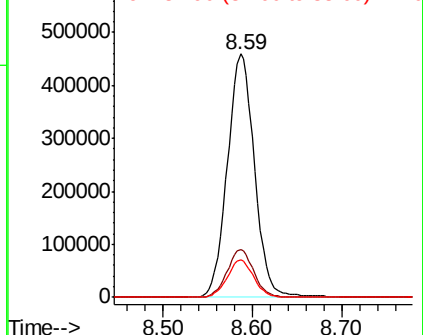
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. -0.00 min
 Lab File: VN050855.D
 Acq: 23 Aug 2018 16:11

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 969072
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 38.6
 88 15.4 0.0 30.6

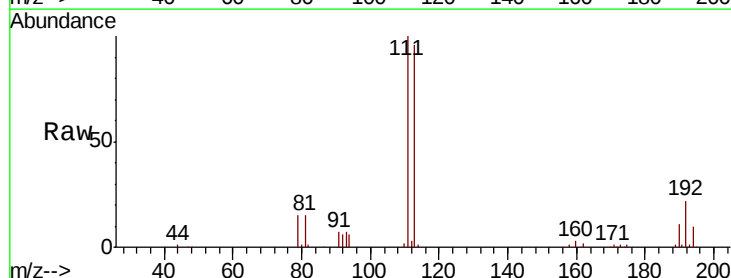


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

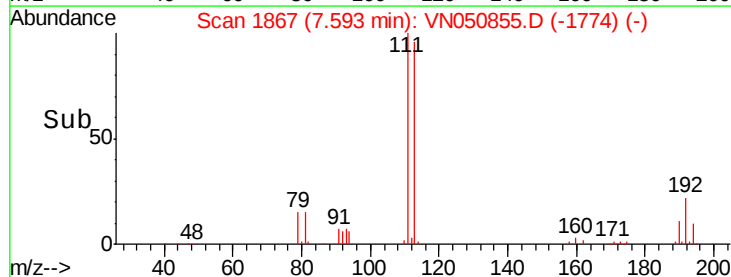
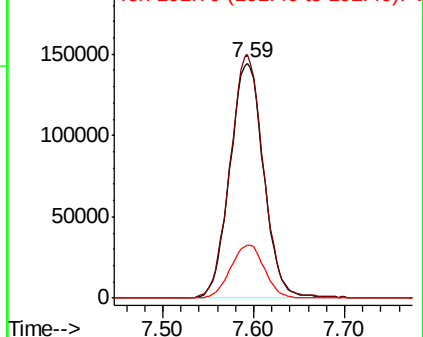


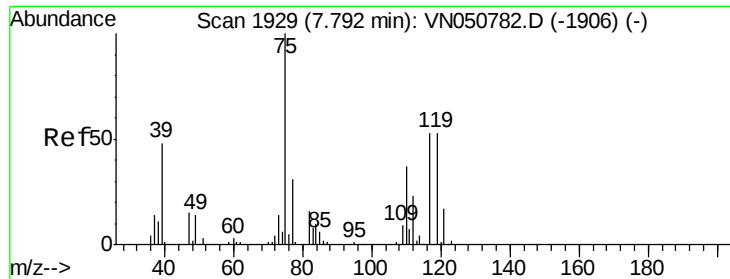
#35
 Dibromofluoromethane
 Concen: 48.32 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN050855.D
 Acq: 23 Aug 2018 16:11

Tgt Ion:113 Resp: 372545
 Ion Ratio Lower Upper
 113 100
 111 102.5 82.6 123.8
 192 22.7 18.0 27.0



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

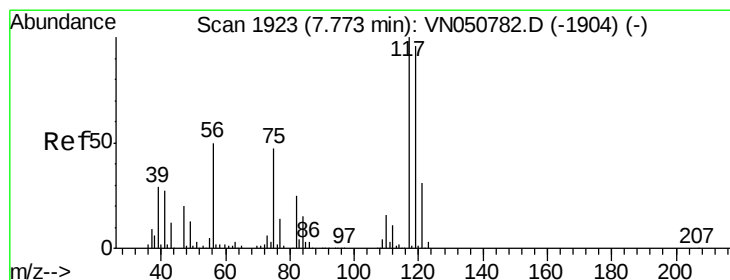
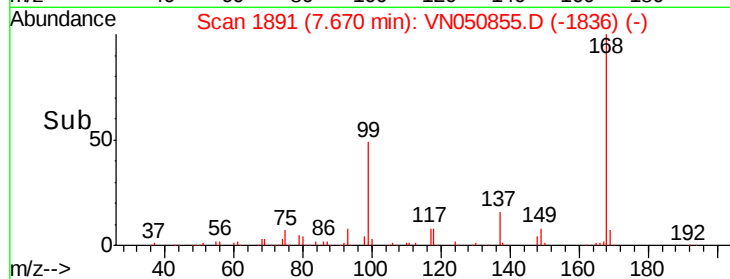
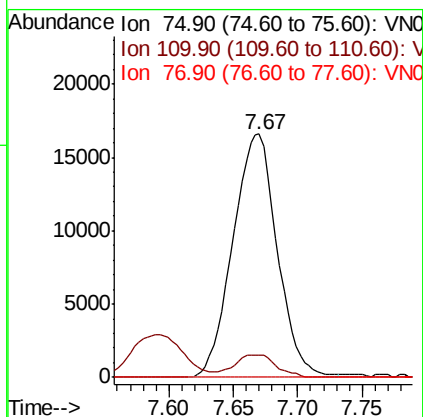
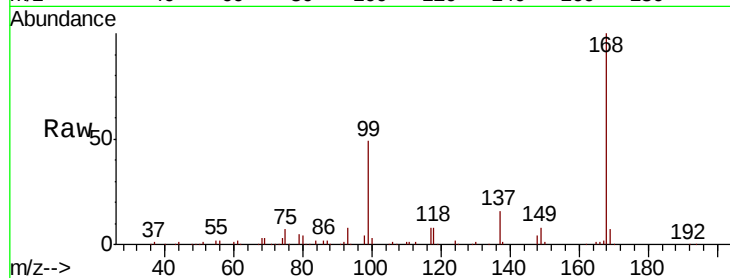




#36
 1,1-Dichloropropene
 Concen: 3.48 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.12 min
 Lab File: VN050855.D
 Acq: 23 Aug 2018 16:11

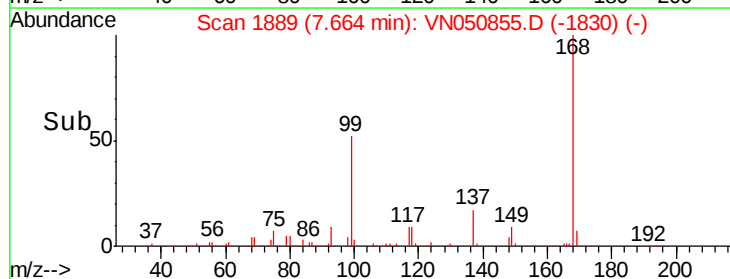
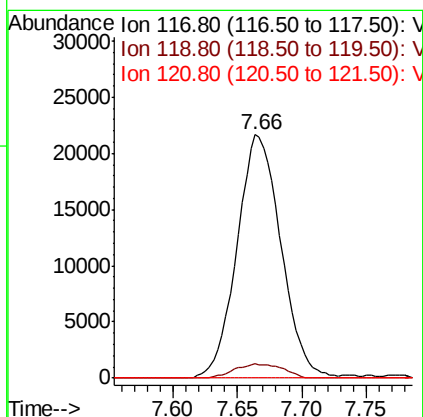
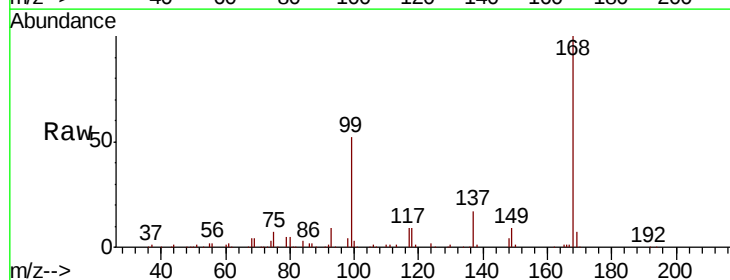
Instrument :
 MSVOA_N
 ClientSampleId :

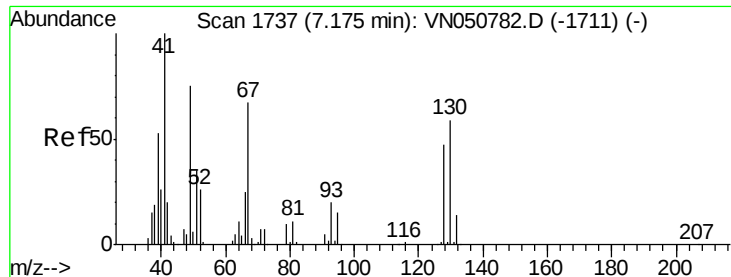
Tot Ion	75	Resp	39745
Ion Ratio	Lower	Upper	
75	100		
110	8.6	18.1	54.4#
77	0.0	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 4.45 ug/l
 RT: 7.66 min Scan# 1889
 Delta R.T. -0.11 min
 Lab File: VN050855.D
 Acq: 23 Aug 2018 16:11

Tgt Ion	117	Resp	51390
Ion Ratio	Lower	Upper	
117	100		
119	5.8	76.3	114.5#
121	0.0	24.6	36.8#

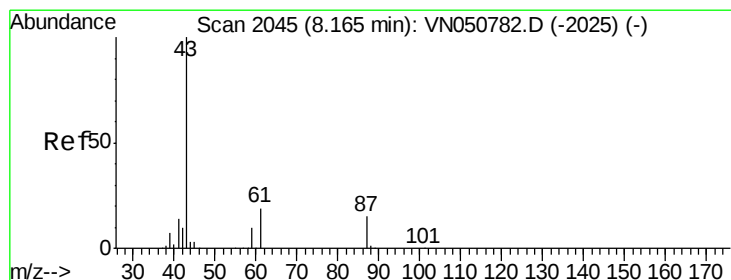
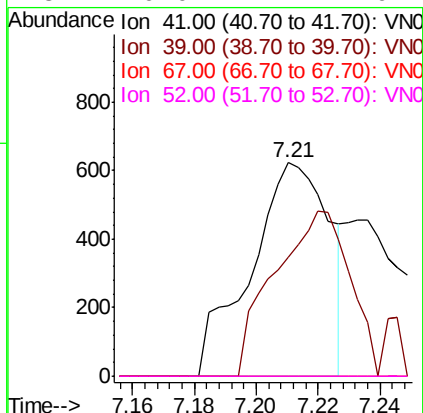
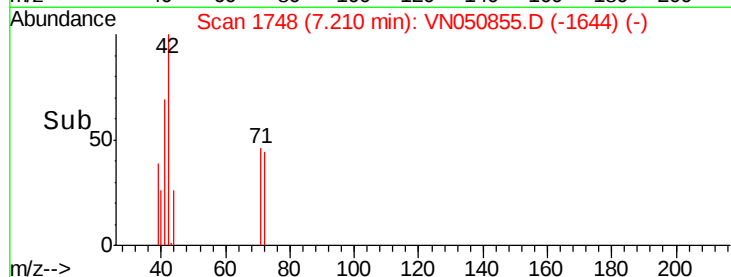
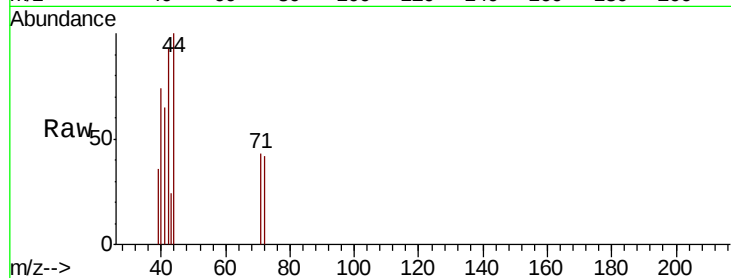




#41
Methacrylonitrile
Concen: 0.31 ug/l
RT: 7.21 min Scan# 1748
Delta R.T. 0.04 min
Lab File: VN050855.D
Acq: 23 Aug 2018 16:11

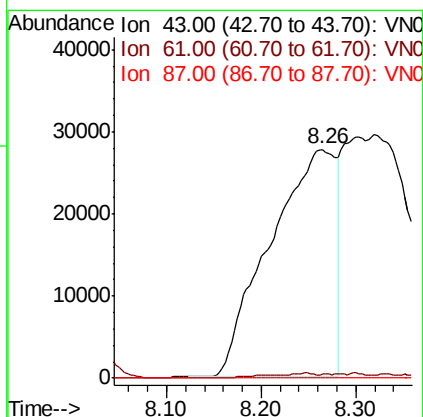
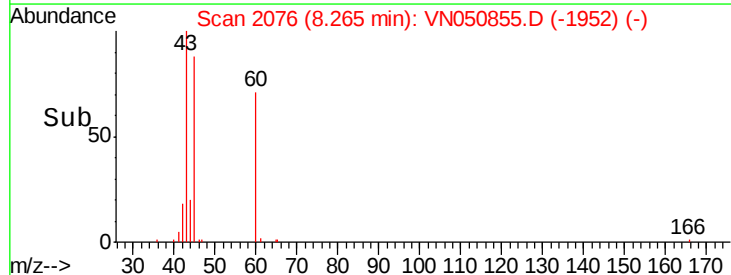
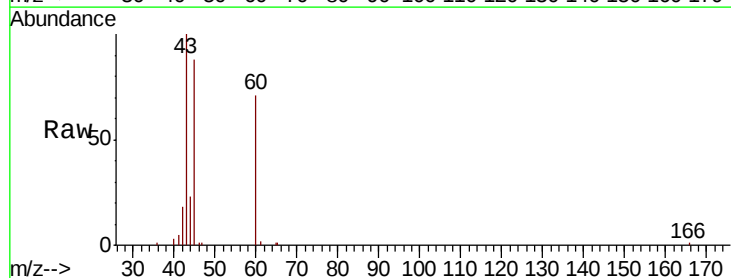
Instrument :
MSVOA_N
ClientSampleID :

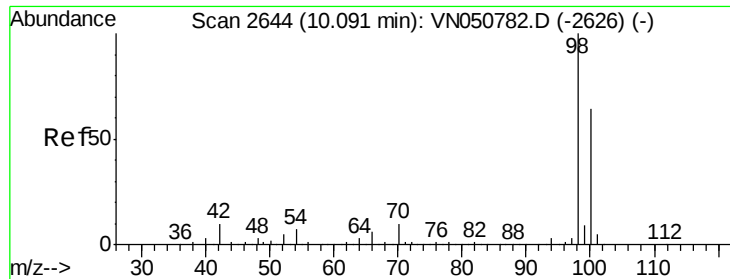
Tot Ion	Ratio	Lower	Upper
41	100		
39	74.3	45.4	68.0#
67	0.0	70.6	106.0#
52	0.0	27.1	40.7#



#43
Isopropyl Acetate
Concen: 11.86 ug/l
RT: 8.26 min Scan# 2076
Delta R.T. 0.10 min
Lab File: VN050855.D
Acq: 23 Aug 2018 16:11

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.4	17.5	26.3#
87	0.0	11.3	16.9#

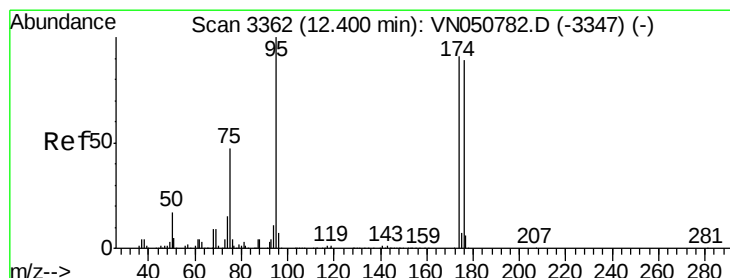
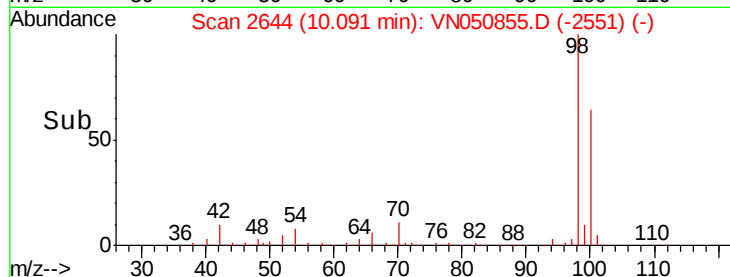
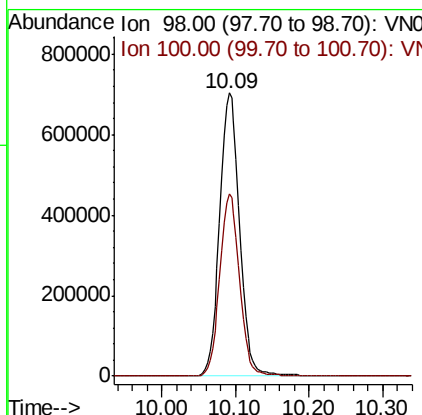
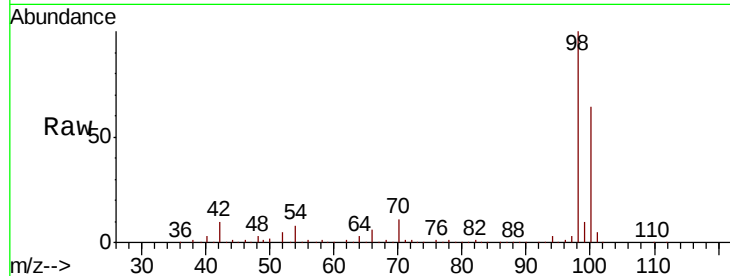




#50
Toluene-d8
Concen: 45.88 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VN050855.D
Acq: 23 Aug 2018 16:11

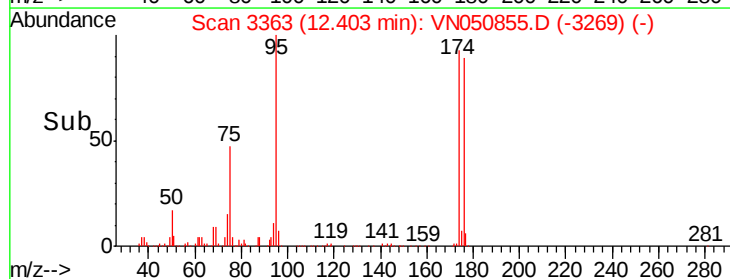
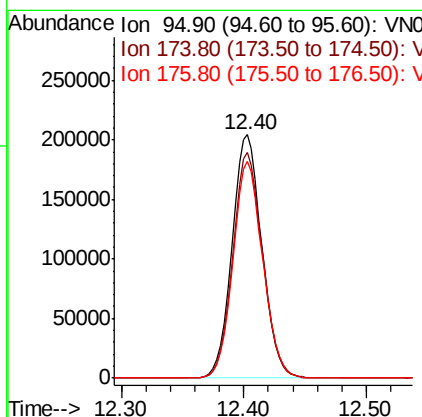
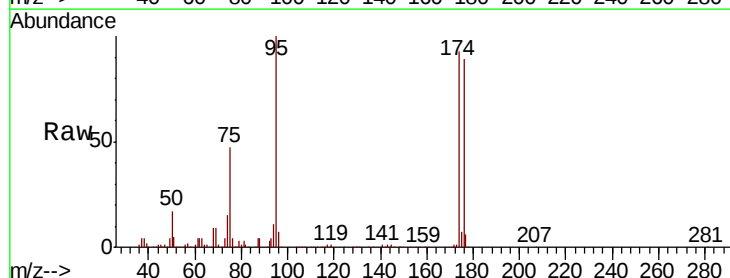
Instrument :
MSVOA_N
ClientSampled :

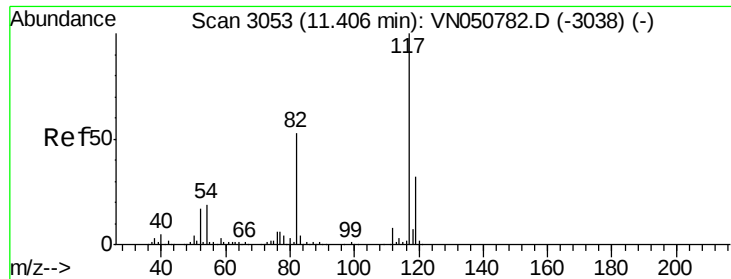
Tot Ion: 98 Resp: 1322329
Ion Ratio Lower Upper
98 100
100 63.9 51.5 77.3



#62
4-Bromofluorobenzene
Concen: 36.15 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN050855.D
Acq: 23 Aug 2018 16:11

Tgt Ion: 95 Resp: 346215
Ion Ratio Lower Upper
95 100
174 92.7 0.0 183.0
176 88.9 0.0 178.8

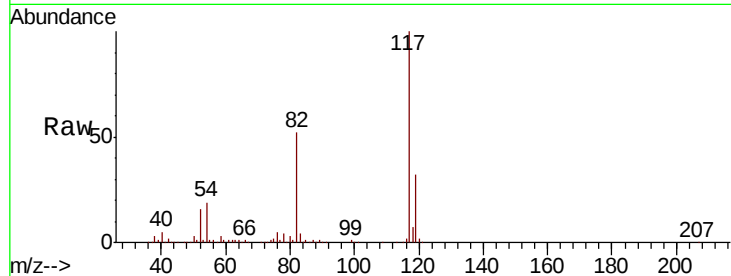




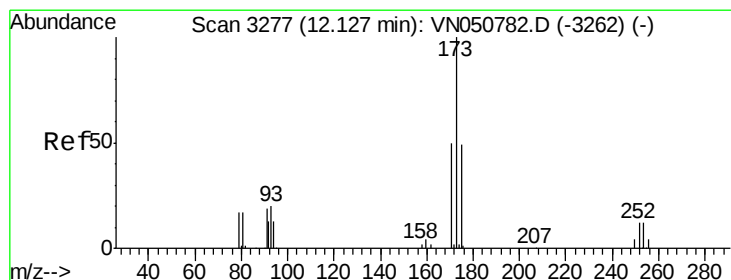
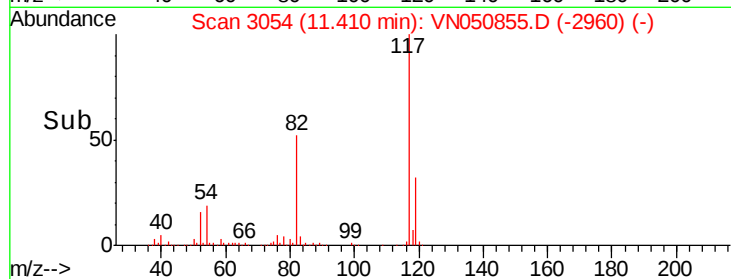
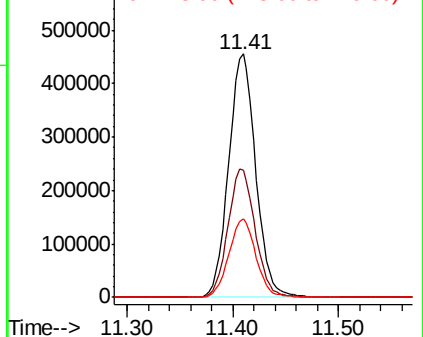
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050855.D
Acq: 23 Aug 2018 16:11

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 807763
Ion Ratio Lower Upper
117 100
82 52.4 42.6 64.0
119 32.1 25.8 38.6

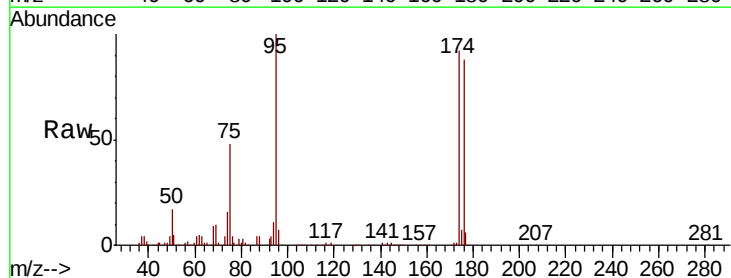


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

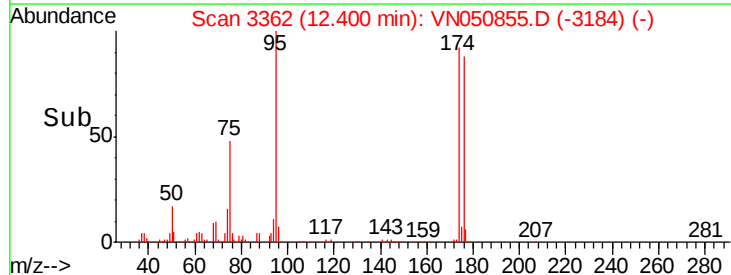
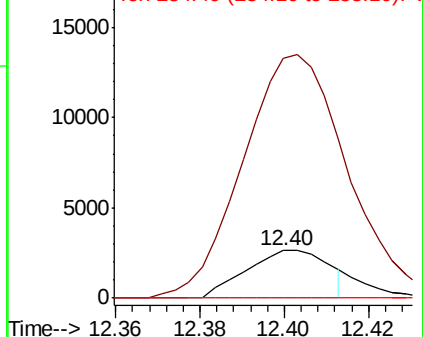


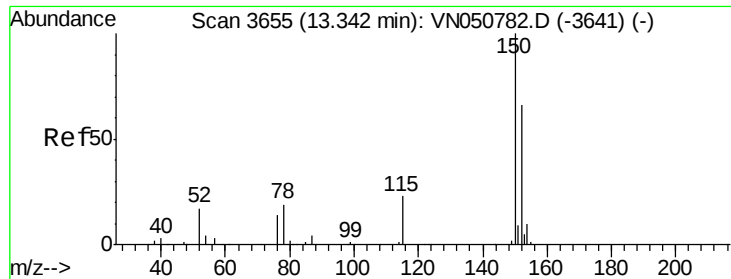
#71
Bromoform
Concen: 0.67 ug/l
RT: 12.40 min Scan# 3362
Delta R.T. 0.27 min
Lab File: VN050855.D
Acq: 23 Aug 2018 16:11

Tgt Ion:173 Resp: 3569
Ion Ratio Lower Upper
173 100
175 546.6 24.4 73.4#
254 0.0 0.1 0.1#



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: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050855.D

Acq: 23 Aug 2018 16:11

Instrument :

MSVOA_N

ClientSampleId :

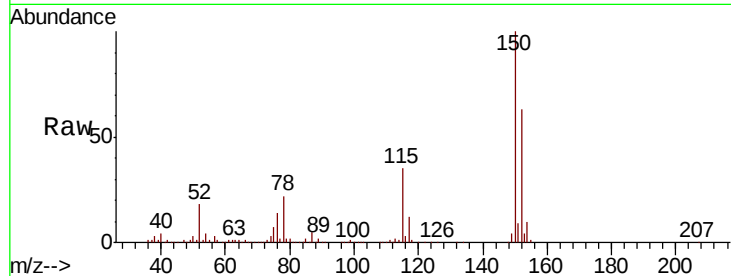
Tot Ion:152 Resp: 278847

Ion Ratio Lower Upper

152 100

115 56.1 27.8 83.4

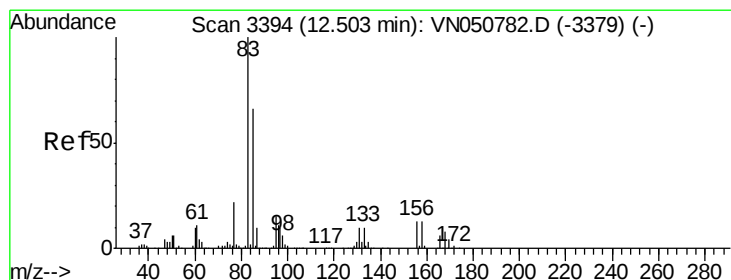
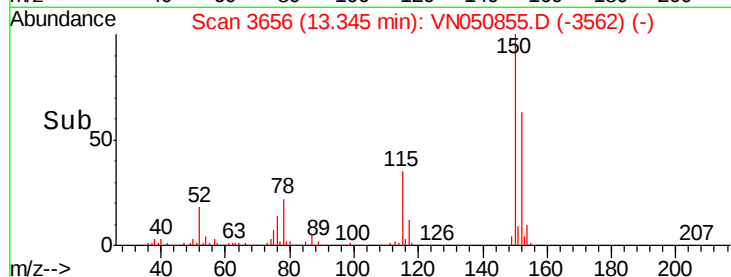
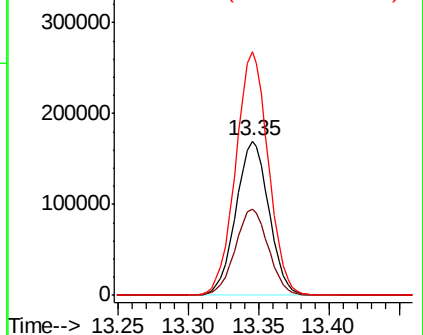
150 156.1 0.0 351.4



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: VN050855.D

Acq: 23 Aug 2018 16:11

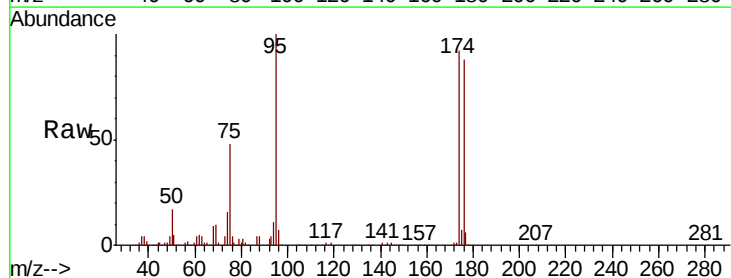
Tgt Ion: 83 Resp: 100

Ion Ratio Lower Upper

83 100

131 479.0 5.3 15.9#

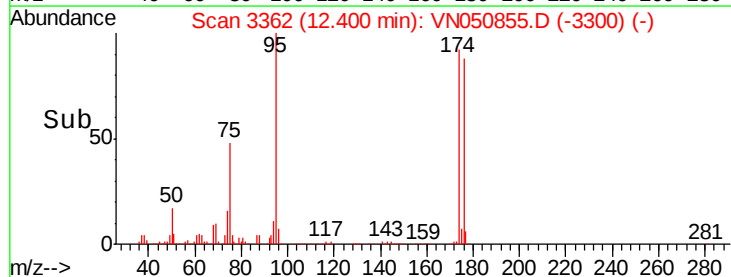
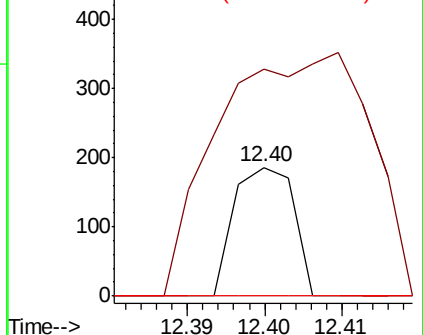
85 0.0 31.9 95.7#

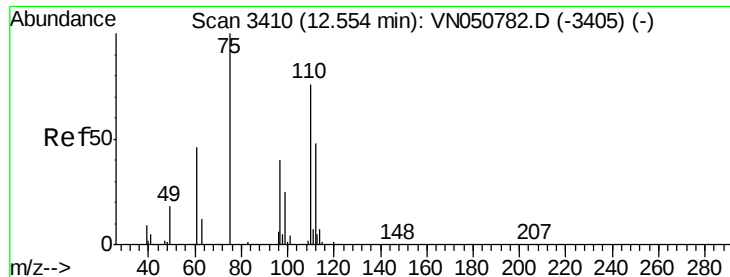


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 33.82 ug/l

RT: 12.40 min Scan# 3362

Delta R.T. -0.15 min

Lab File: VN050855.D

Acq: 23 Aug 2018 16:11

Instrument :

MSVOA_N

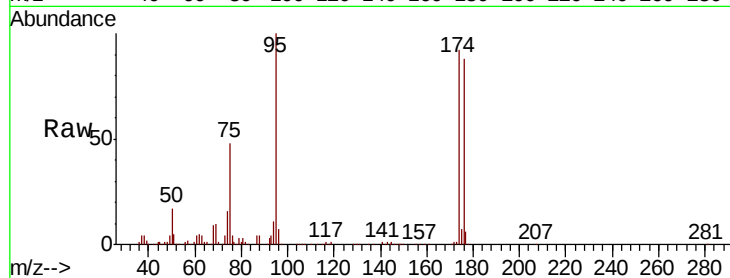
ClientSampled :

Tot Ion: 75 Resp: 165183

Ion Ratio Lower Upper

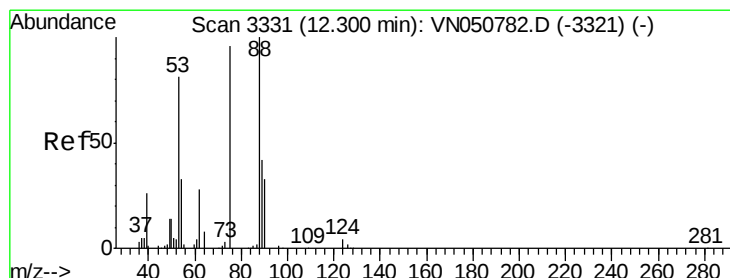
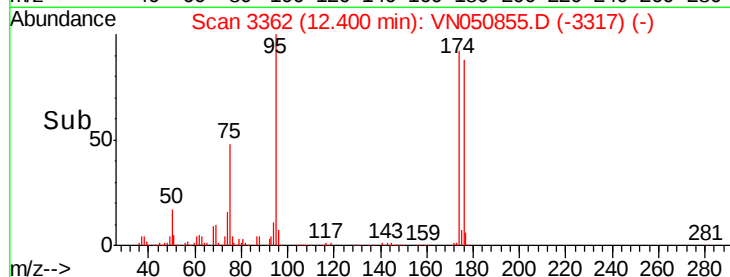
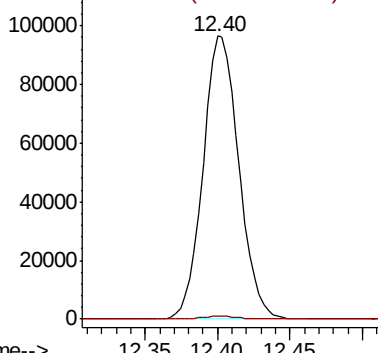
75 100

77 1.1 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: 114.33 ug/l

RT: 12.40 min Scan# 3362

Delta R.T. 0.10 min

Lab File: VN050855.D

Acq: 23 Aug 2018 16:11

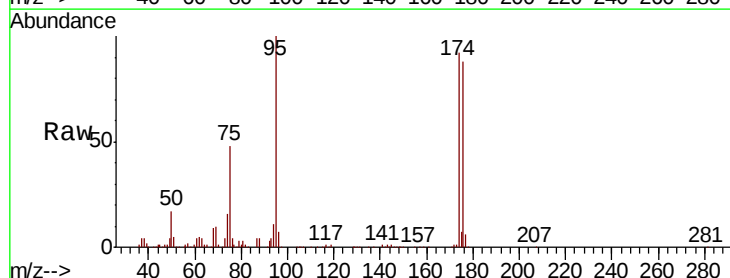
Tgt Ion: 75 Resp: 165183

Ion Ratio Lower Upper

75 100

53 0.1 68.9 103.3#

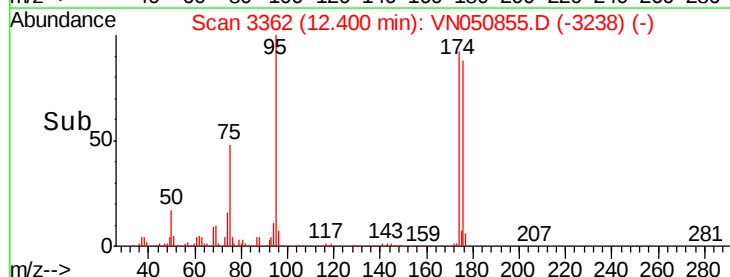
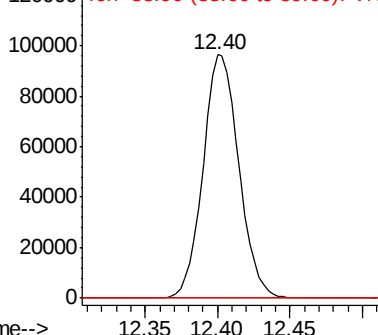
89 0.0 36.1 54.1#

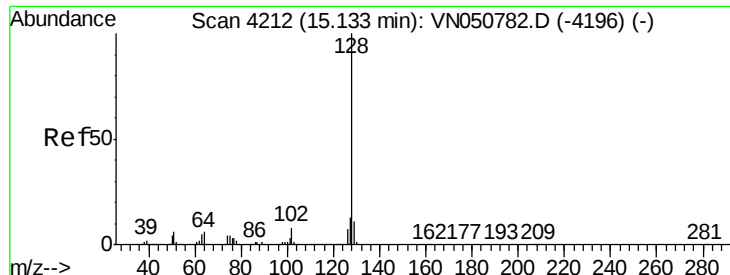


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

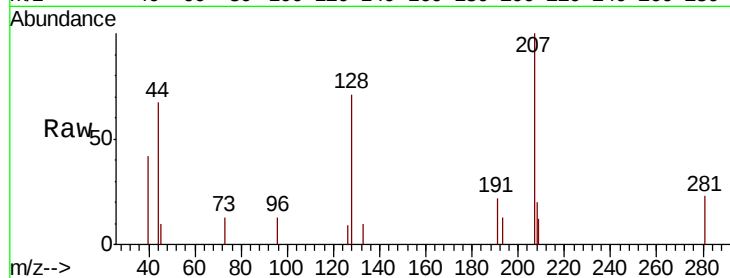




#95
Naphthalene
Concen: 5.56 ug/l
RT: 15.13 min Scan# 4212
Delta R.T. 0.00 min
Lab File: VN050855.D
Acq: 23 Aug 2018 16:11

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:128 Resp: 2018
Ion Ratio Lower Upper
128 100
127 0.0 10.5 15.7#
129 0.0 8.7 13.1#



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

