

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080618\
 Data File : VN050390.D
 Acq On : 6 Aug 2018 17:55
 Operator : MD\SY
 Sample : PB11760ZHE#05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB11760ZHE#05

Quant Time: Aug 07 05:49:18 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N080618W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 07 05:22:15 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	714564	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1187792	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1030943	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	412380	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	494134	51.76	ug/l	0.00
Spiked Amount			Recovery	=	103.52%	
35) Dibromofluoromethane	7.59	113	442501	46.43	ug/l	0.00
Spiked Amount			Recovery	=	92.86%	
50) Toluene-d8	10.09	98	1611927	44.98	ug/l	0.00
Spiked Amount			Recovery	=	89.96%	
62) 4-Bromofluorobenzene	12.40	95	476926	39.05	ug/l	0.00
Spiked Amount			Recovery	=	78.10%	

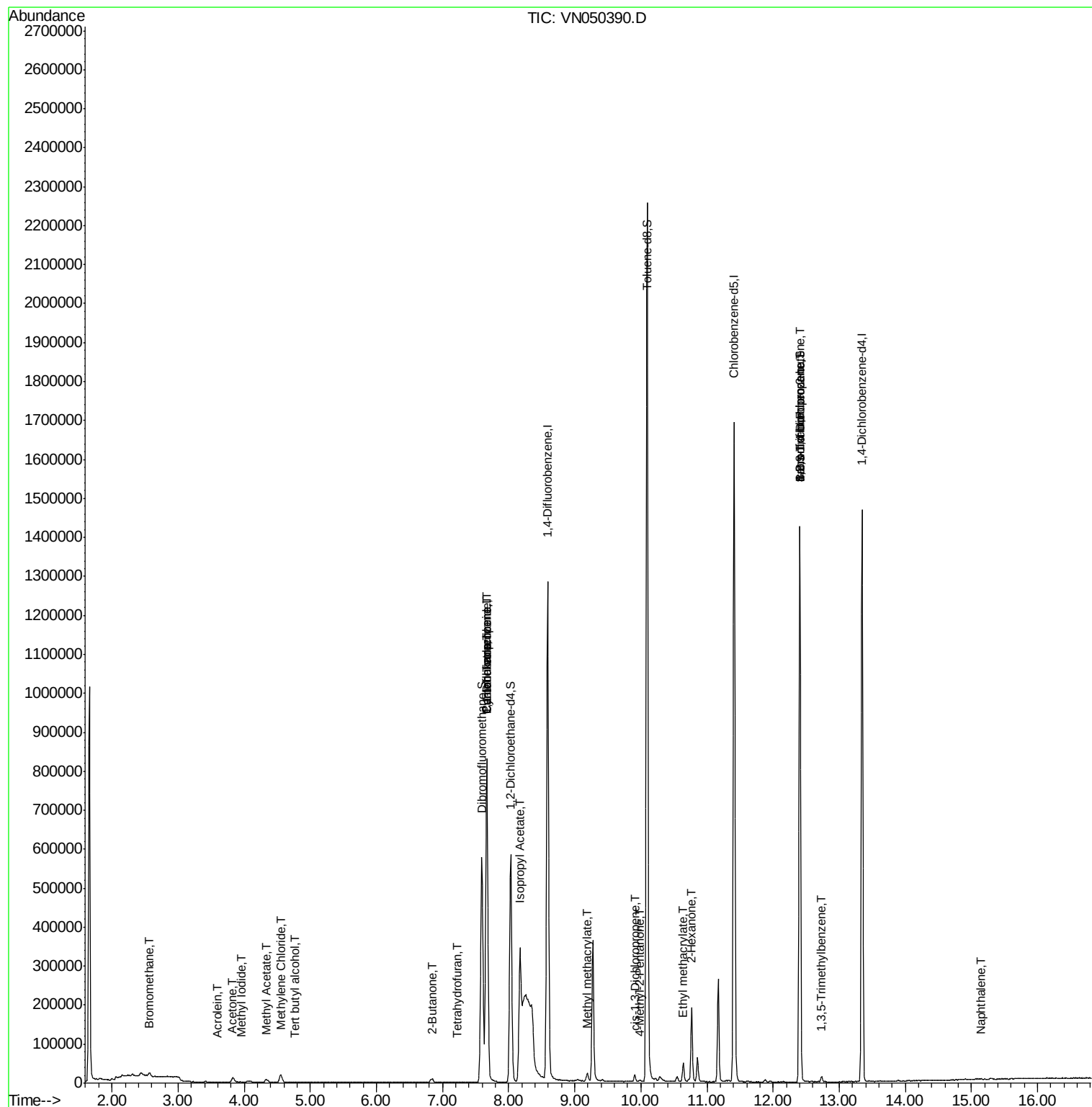
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	4709	Below Cal		95
5) Bromomethane	2.56	94	4856	1.14	ug/l	98
10) Methyl Iodide	3.96	142	2035	0.56	ug/l #	68
11) Tert butyl alcohol	4.75	59	160	0.21	ug/l #	72
13) Acrolein	3.60	56	67	15.09	ug/l #	1
16) Acetone	3.82	43	22605	7.59	ug/l	97
18) Methyl Acetate	4.33	43	16613	2.06	ug/l	91
20) Methylene Chloride	4.55	84	15365	0.22	ug/l	93
25) 2-Butanone	6.85	43	2351	0.50	ug/l #	87
29) Tetrahydrofuran	7.23	42	930	0.37	ug/l #	68
31) Cyclohexane	7.67	56	12666	0.30	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	49315	3.78	ug/l #	48
38) Carbon Tetrachloride	7.67	117	64601	4.74	ug/l #	16
43) Isopropyl Acetate	8.17	43	440570	27.15	ug/l #	92
48) Methyl methacrylate	9.18	41	12487	1.54	ug/l #	21
51) 4-Methyl-2-Pentanone	9.99	43	3131	0.27	ug/l #	83
54) cis-1,3-Dichloropropene	9.91	75	3031	0.20	ug/l #	70
56) Ethyl methacrylate	10.65	69	905	1.78	ug/l #	1
59) 2-Hexanone	10.77	43	26383	3.24	ug/l #	58
71) Bromoform	12.40	173	3926	0.57	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	231953	31.07	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.74	105	6737	0.27	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	231953	109.18	ug/l #	13
95) Naphthalene	15.13	128	653	3.65	ug/l #	69

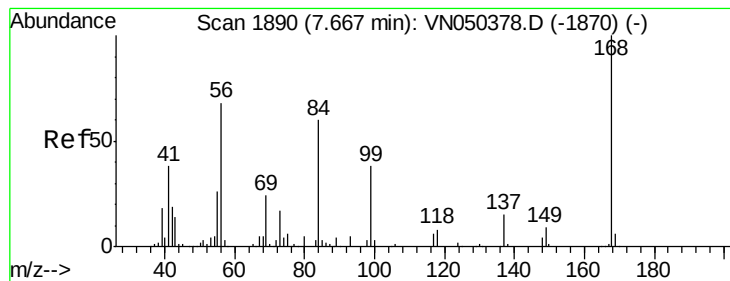
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc : 5.00mL/MSVOA N/WATER
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Instrument :
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ClientSampleId :
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Quant Time: Aug 07 05:49:18 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N080618W.M
Quant Title : SW846 8260
QLast Update : Tue Aug 07 05:22:15 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: VN050390.D

Acq: 6 Aug 2018 17:55

Instrument :

MSVOA_N

ClientSampleId :

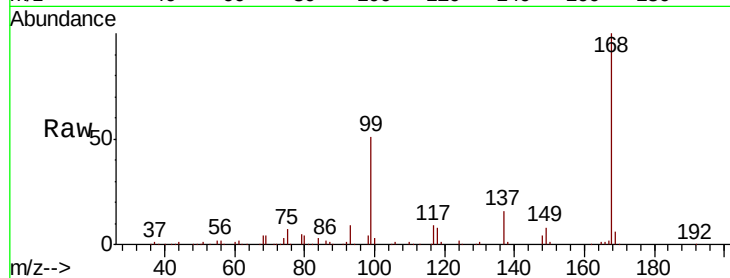
PB11760ZHE#05

Tot Ion:168 Resp: 714564

Ion Ratio Lower Upper

168 100

99 50.9 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): VN050378.D (-1870) (-)

Ion 98.90 (98.60 to 99.60): VN050378.D (-1870) (-)

7.67

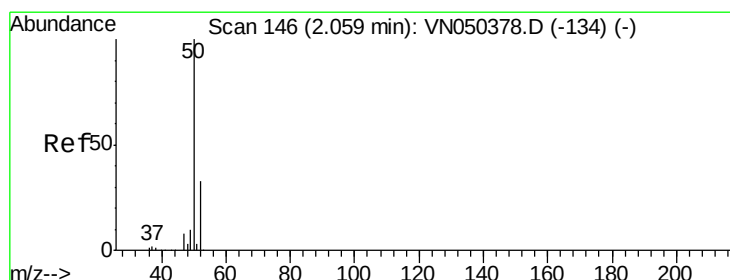
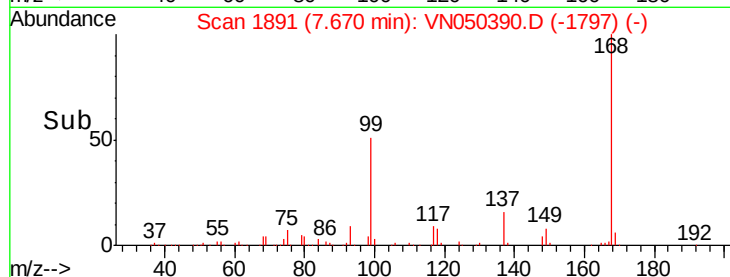
300000

200000

100000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN050390.D

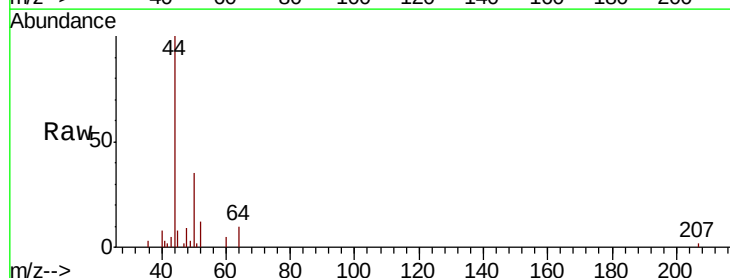
Acq: 6 Aug 2018 17:55

Tgt Ion: 50 Resp: 4709

Ion Ratio Lower Upper

50 100

52 35.0 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VN050378.D (-134) (-)

Ion 51.90 (51.60 to 52.60): VN050378.D (-134) (-)

2.06

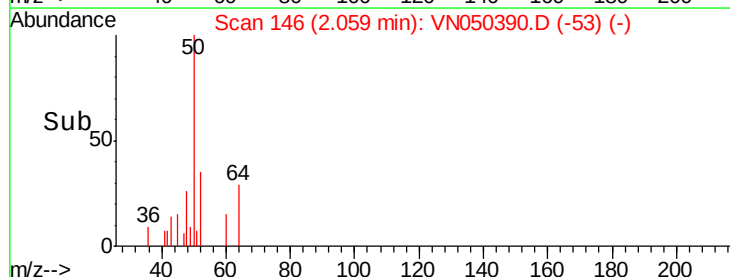
3000

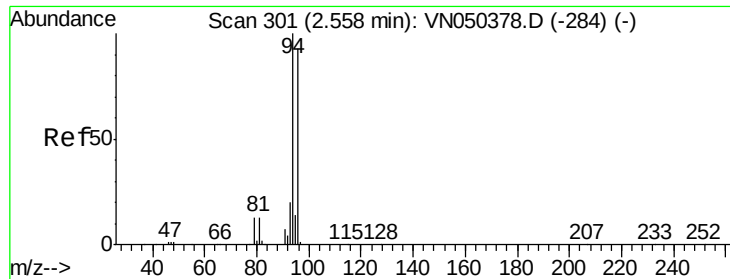
2000

1000

0

Time-->





#5

Bromomethane

Concen: 1.14 ug/l

RT: 2.56 min Scan# 303

Delta R.T. 0.01 min

Lab File: VN050390.D

Acq: 6 Aug 2018 17:55

Instrument :

MSVOA_N

ClientSampleId :

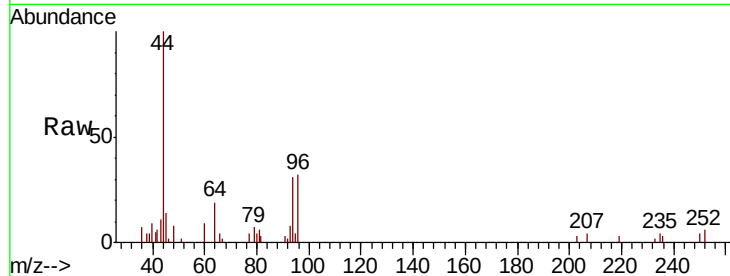
PB11760ZHE#05

Tot Ion: 94 Resp: 4856

Ion Ratio Lower Upper

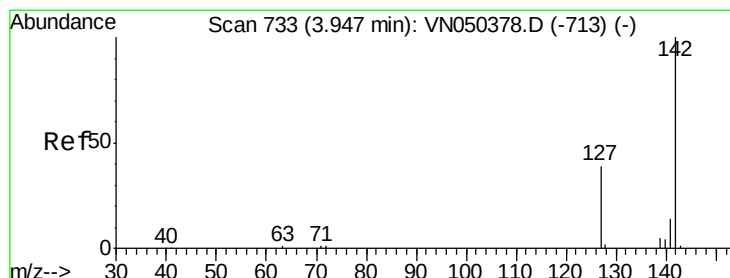
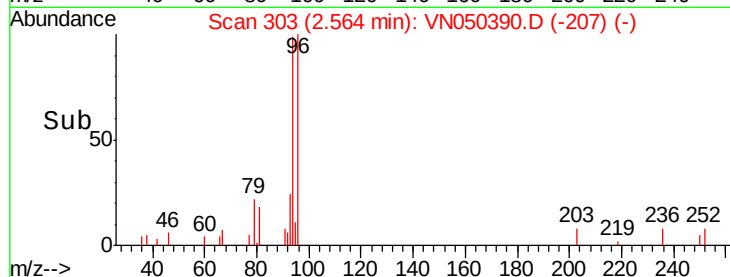
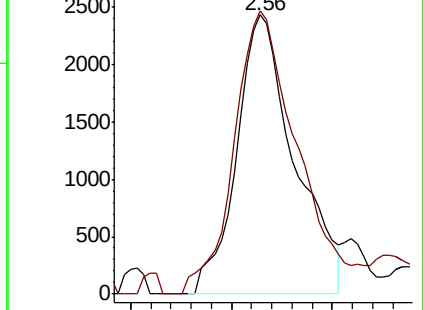
94 100

96 95.1 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VN050378.D (-284) (-)

Ion 95.90 (95.60 to 96.60): VN050378.D (-284) (-)



#10

Methyl Iodide

Concen: 0.56 ug/l

RT: 3.96 min Scan# 736

Delta R.T. 0.01 min

Lab File: VN050390.D

Acq: 6 Aug 2018 17:55

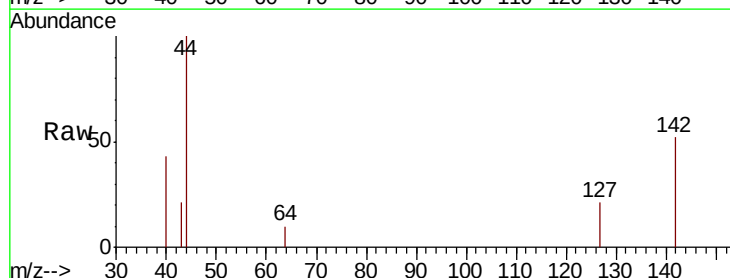
Tgt Ion: 142 Resp: 2035

Ion Ratio Lower Upper

142 100

127 19.3 33.4 50.2#

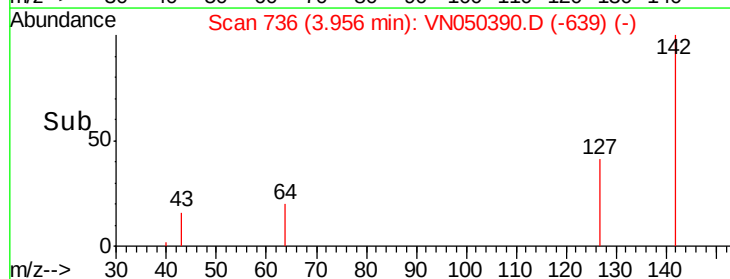
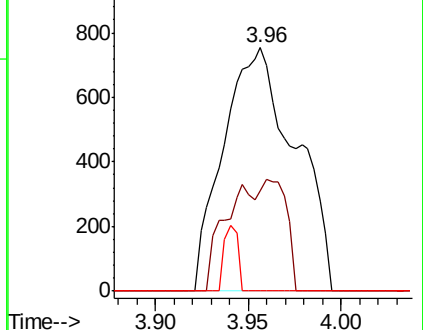
141 5.2 11.6 17.4#

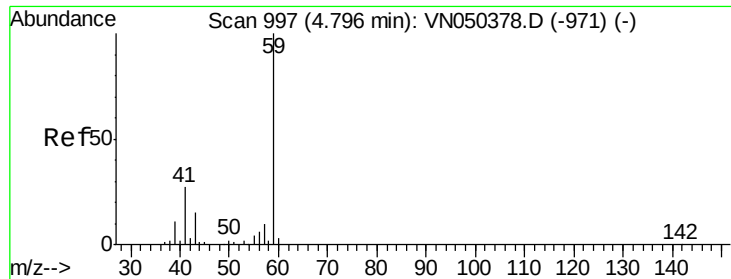


Abundance Ion 141.80 (141.50 to 142.50): VN050378.D (-713) (-)

Ion 126.80 (126.50 to 127.50): VN050378.D (-713) (-)

Ion 140.80 (140.50 to 141.50): VN050378.D (-713) (-)

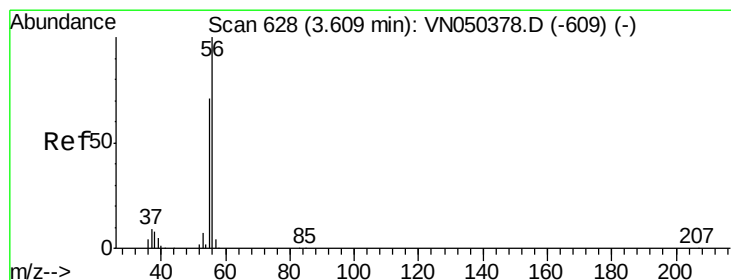
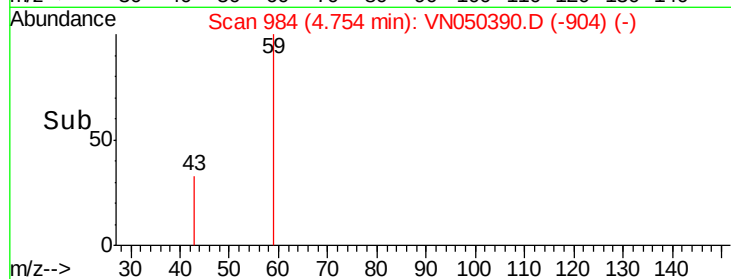
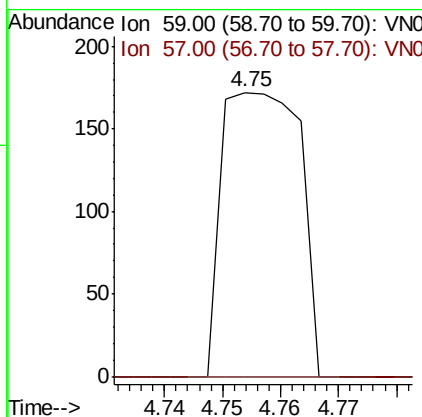
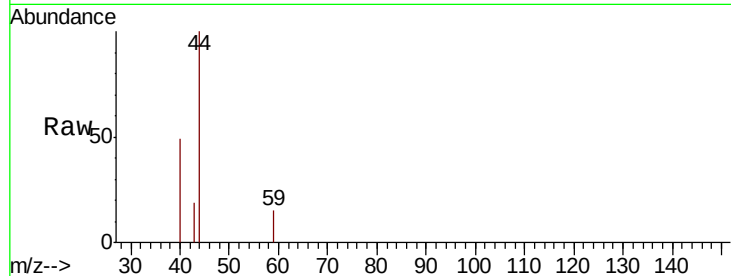




#11
Tert butyl alcohol
Concen: 0.21 ug/l
RT: 4.75 min Scan# 984
Delta R.T. -0.04 min
Lab File: VN050390.D
Acq: 6 Aug 2018 17:55

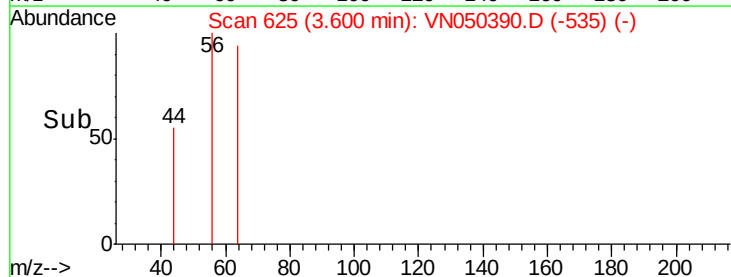
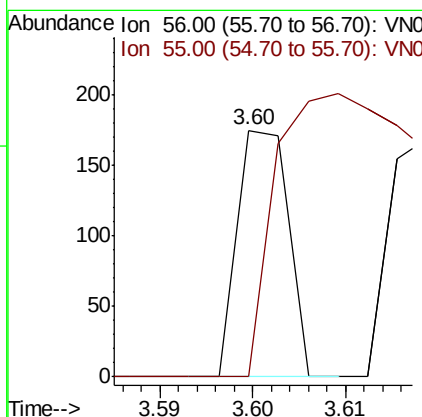
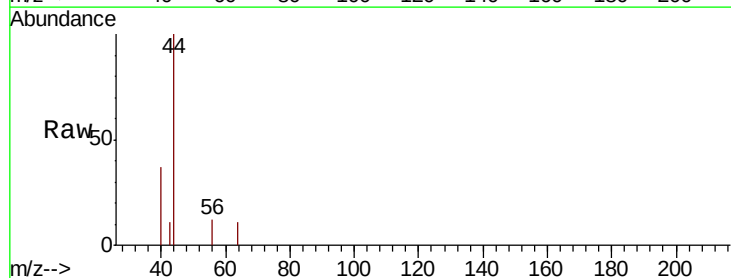
Instrument :
MSVOA_N
ClientSampleId :
PB11760ZHE#05

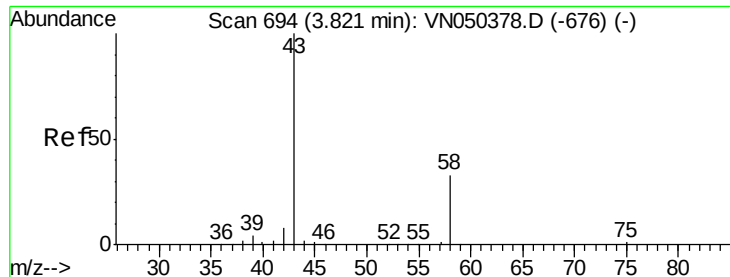
Tot Ion: 59 Resp: 160
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#



#13
Acrolein
Concen: 15.09 ug/l
RT: 3.60 min Scan# 625
Delta R.T. -0.01 min
Lab File: VN050390.D
Acq: 6 Aug 2018 17:55

Tgt Ion: 56 Resp: 67
Ion Ratio Lower Upper
56 100
55 314.9 55.8 83.6#





#16

Acetone

Concen: 7.59 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.00 min

Lab File: VN050390.D

Acq: 6 Aug 2018 17:55

Instrument :

MSVOA_N

ClientSampleId :

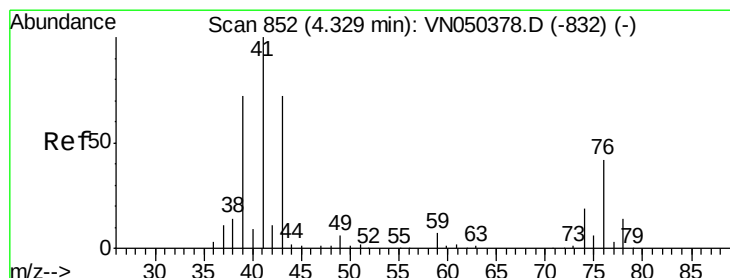
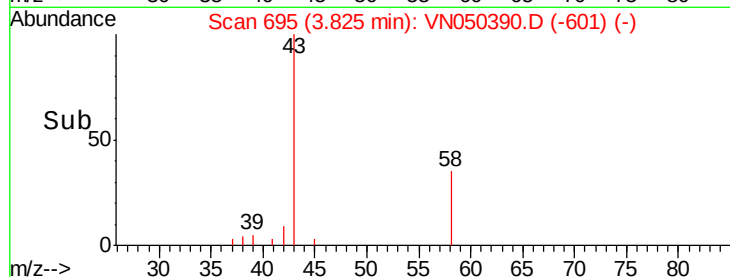
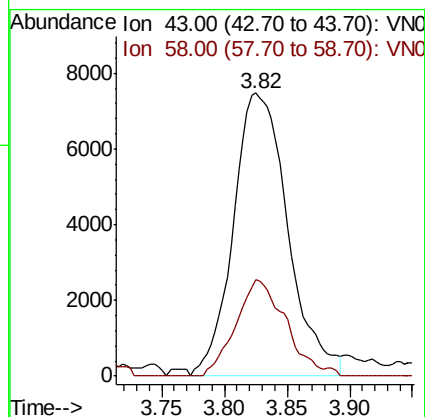
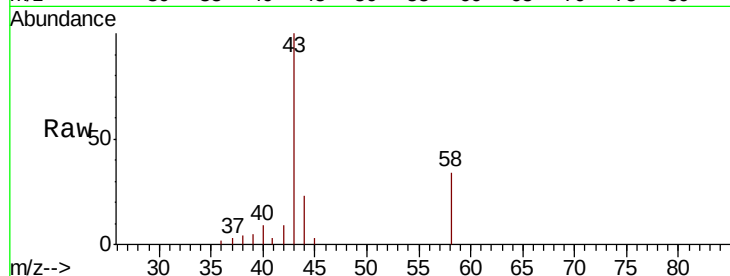
PB11760ZHE#05

Tot Ion: 43 Resp: 22605

Ion Ratio Lower Upper

43 100

58 34.0 25.8 38.8



#18

Methyl Acetate

Concen: 2.06 ug/l

RT: 4.33 min Scan# 853

Delta R.T. 0.00 min

Lab File: VN050390.D

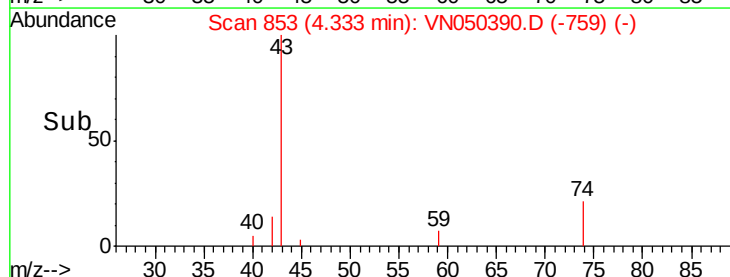
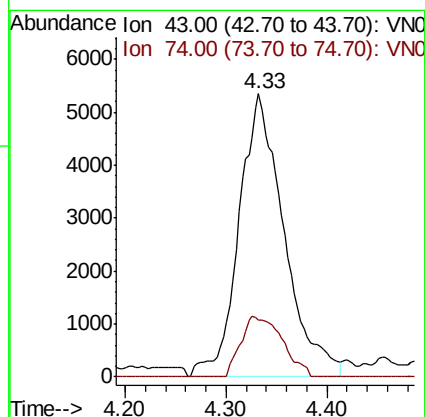
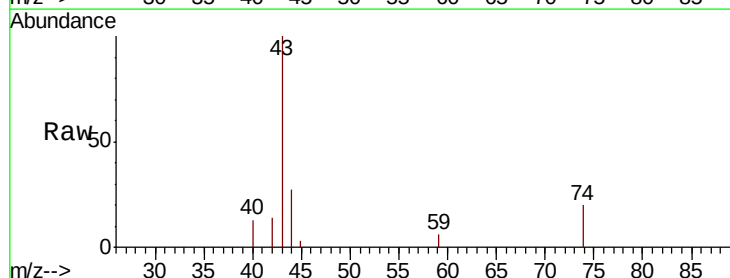
Acq: 6 Aug 2018 17:55

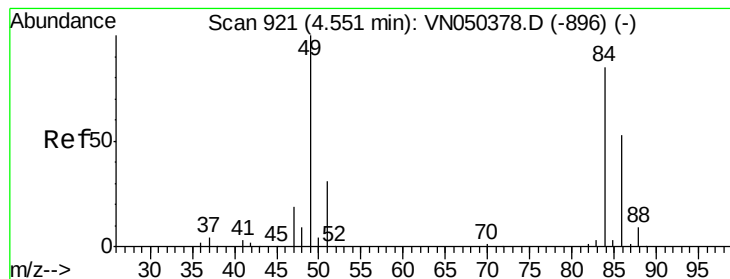
Tgt Ion: 43 Resp: 16613

Ion Ratio Lower Upper

43 100

74 19.7 19.2 28.8





#20

Methvlene Chloride

Concen: 0.22 ug/l

RT: 4.55 min Scan# 922

Delta R.T. 0.00 min

Lab File: VN050390.D

Acq: 6 Aug 2018 17:55

Instrument :

MSVOA_N

ClientSampleId :

PB11760ZHE#05

Tot Ion: 84 Resp: 15365

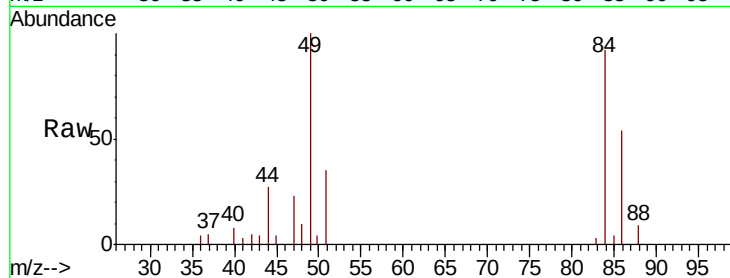
Ion Ratio Lower Upper

84 100

49 108.8 94.8 142.2

51 38.1 28.3 42.5

86 59.0 51.0 76.6

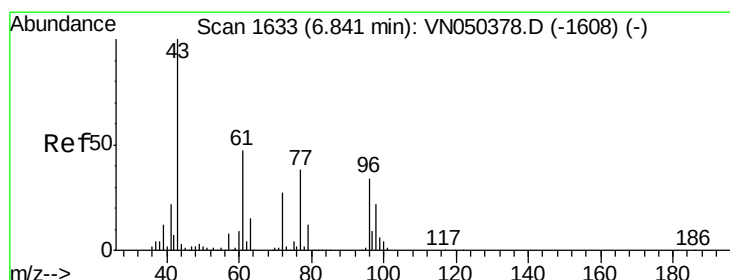
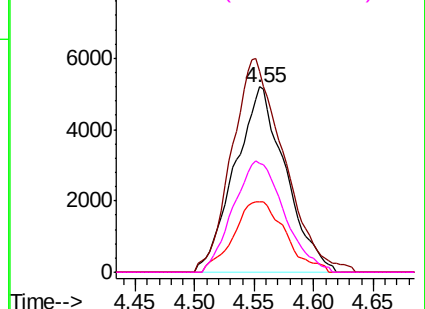
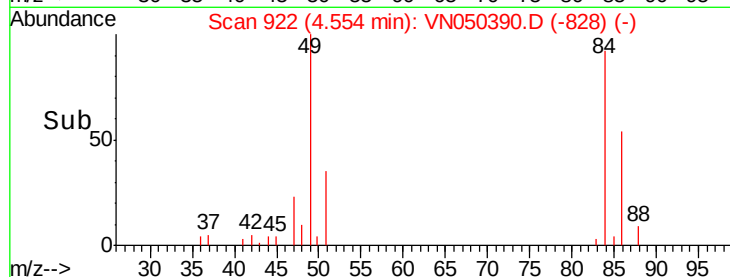


Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#25

2-Butanone

Concen: 0.50 ug/l

RT: 6.85 min Scan# 1637

Delta R.T. 0.01 min

Lab File: VN050390.D

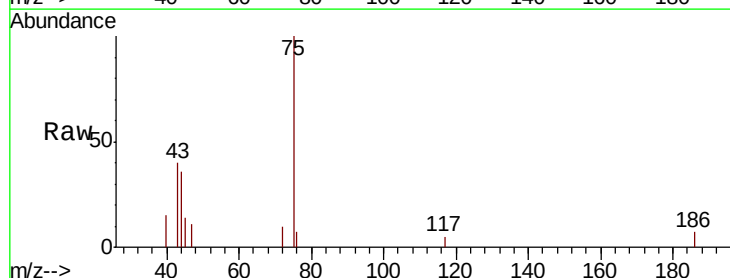
Acq: 6 Aug 2018 17:55

Tgt Ion: 43 Resp: 2351

Ion Ratio Lower Upper

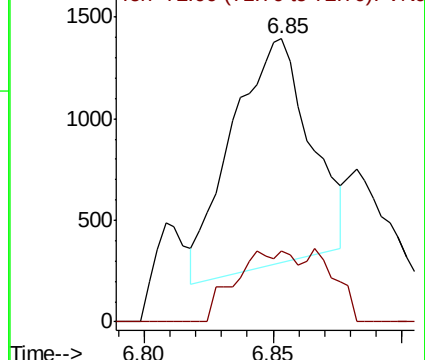
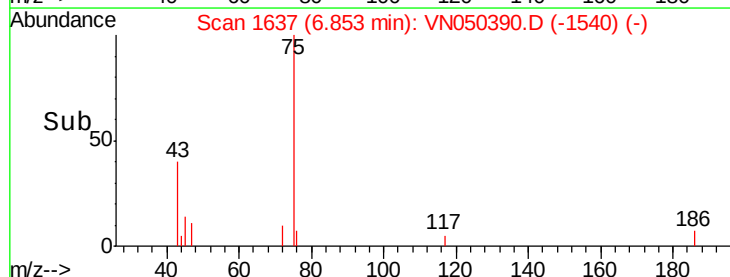
43 100

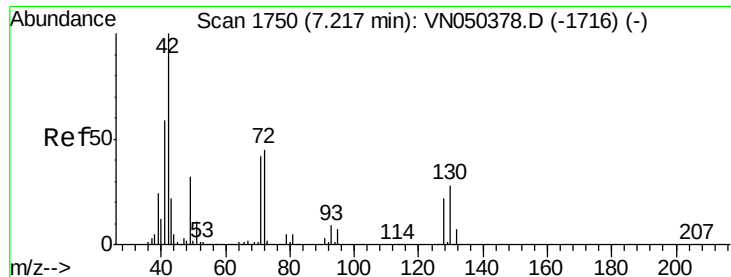
72 33.7 21.5 32.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0





#29

Tetrahydrofuran

Concen: 0.37 ug/l

RT: 7.23 min Scan# 1755

Delta R.T. 0.02 min

Lab File: VN050390.D

Acq: 6 Aug 2018 17:55

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PB11760ZHE#05

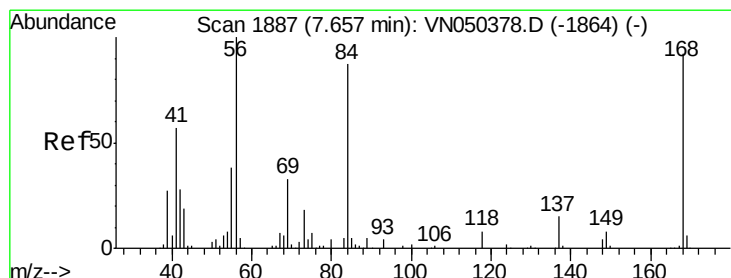
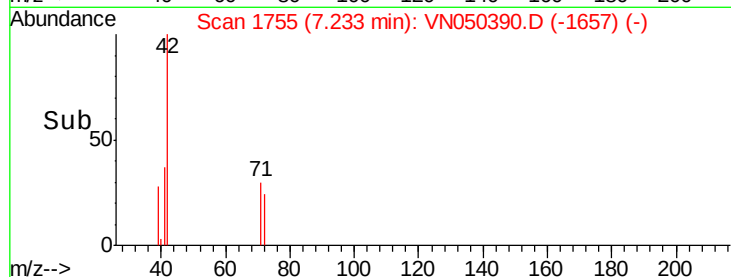
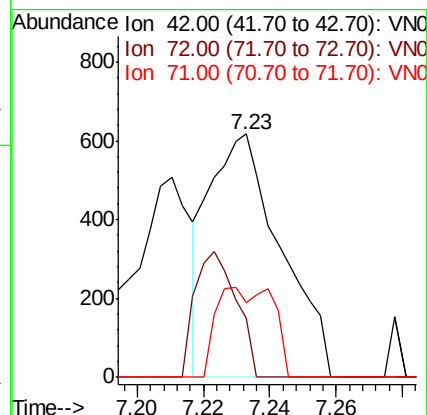
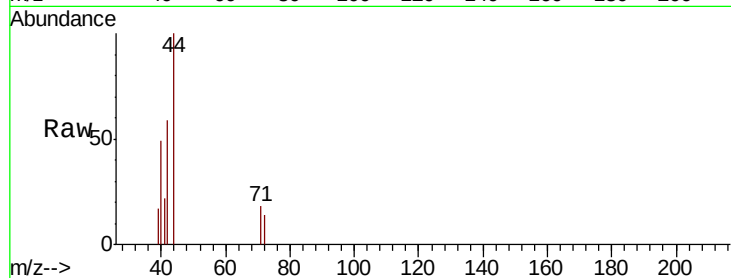
Tot Ion: 42 Resp: 930

Ion Ratio Lower Upper

42 100

72 29.7 35.9 53.9#

71 16.6 33.7 50.5#



#31

Cyclohexane

Concen: 0.30 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.01 min

Lab File: VN050390.D

Acq: 6 Aug 2018 17:55

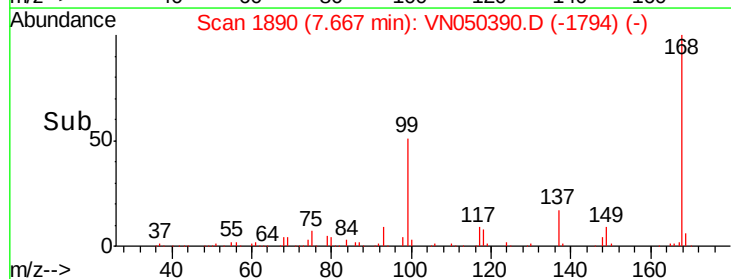
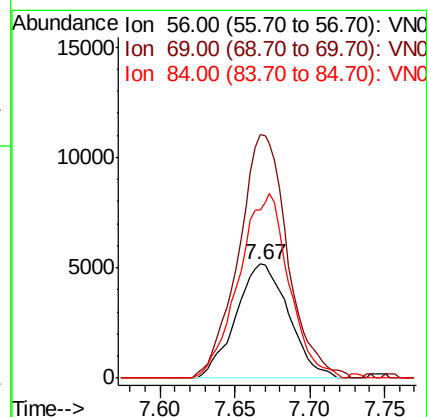
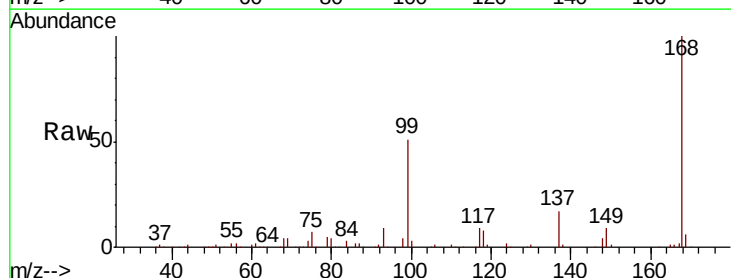
Tgt Ion: 56 Resp: 12666

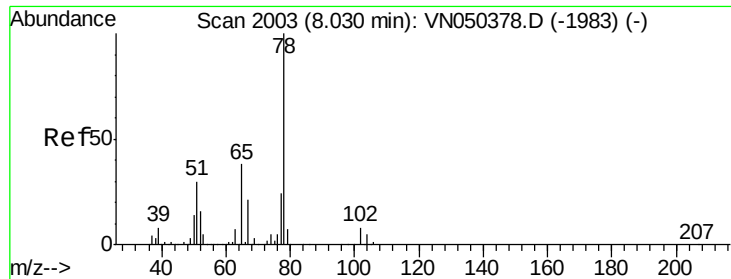
Ion Ratio Lower Upper

56 100

69 213.8 26.2 39.4#

84 147.9 67.4 101.0#

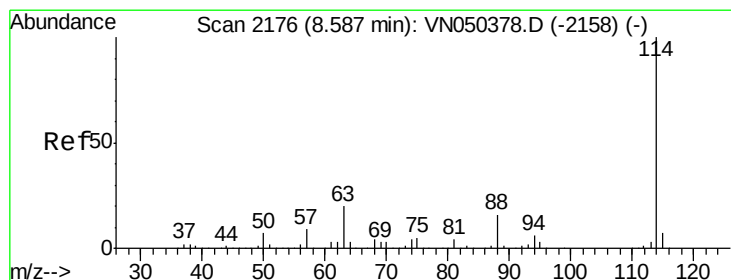
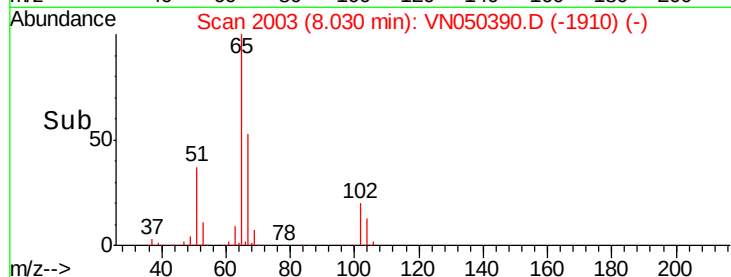
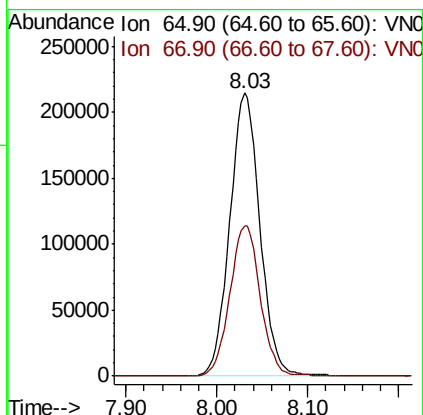
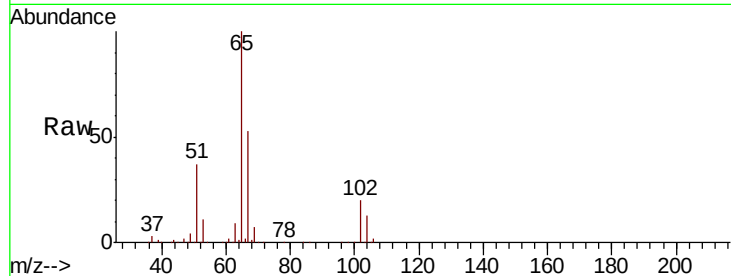




#33
 1,2-Dichloroethane-d4
 Concen: 51.76 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. -0.00 min
 Lab File: VN050390.D
 Acq: 6 Aug 2018 17:55

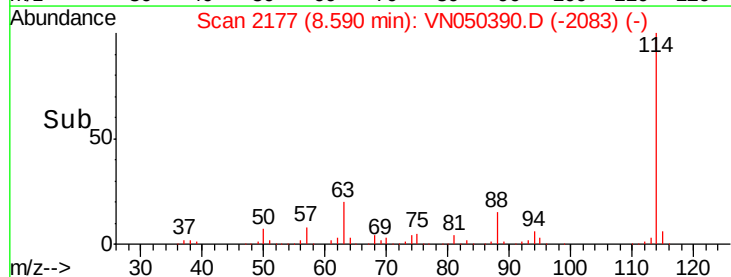
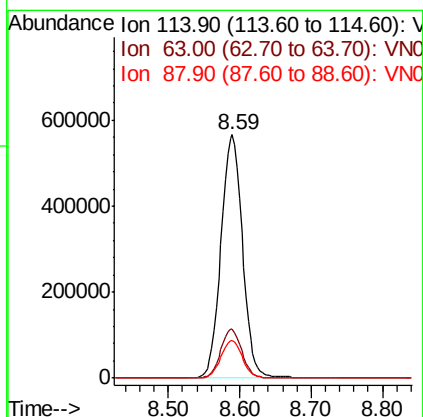
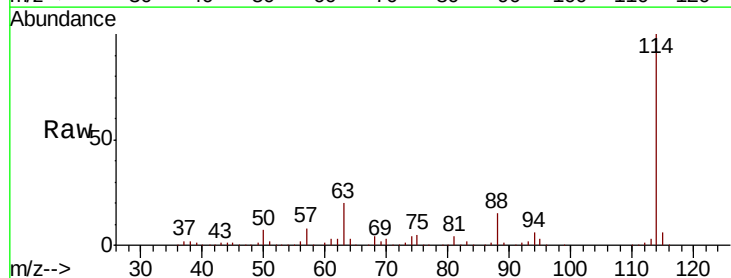
Instrument :
 MSVOA_N
 ClientSampleId :
 PB11760ZHE#05

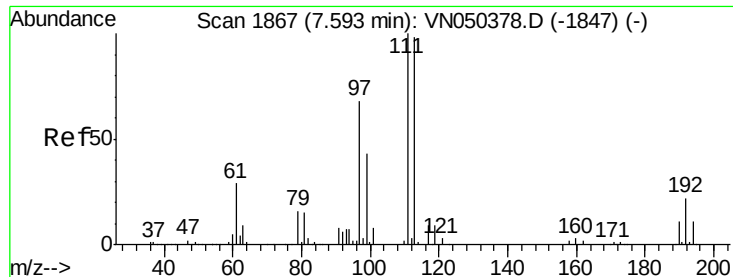
Tot Ion: 65 Resp: 494134
 Ion Ratio Lower Upper
 65 100
 67 54.0 0.0 108.4



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050390.D
 Acq: 6 Aug 2018 17:55

Tgt Ion: 114 Resp: 1187792
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 40.0
 88 15.5 0.0 31.2

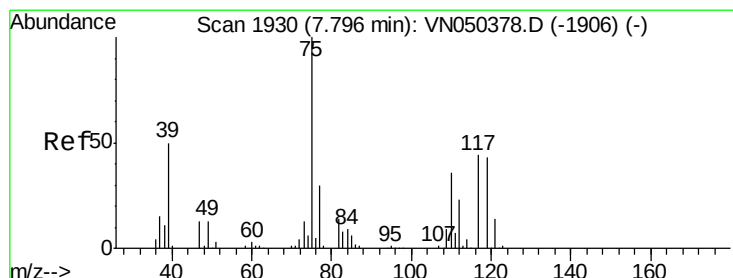
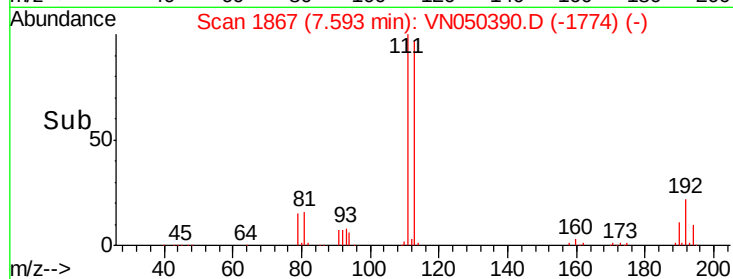
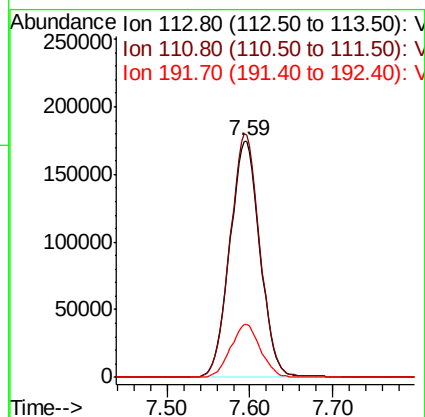
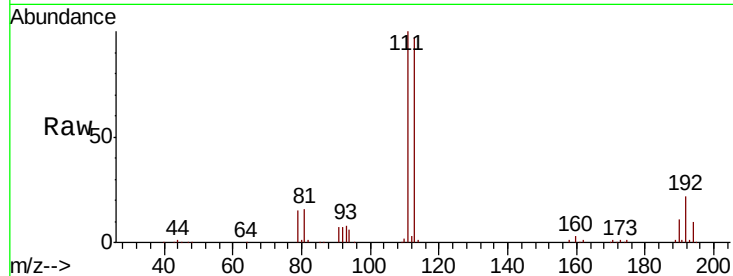




#35
 Dibromofluoromethane
 Concen: 46.43 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN050390.D
 Acq: 6 Aug 2018 17:55

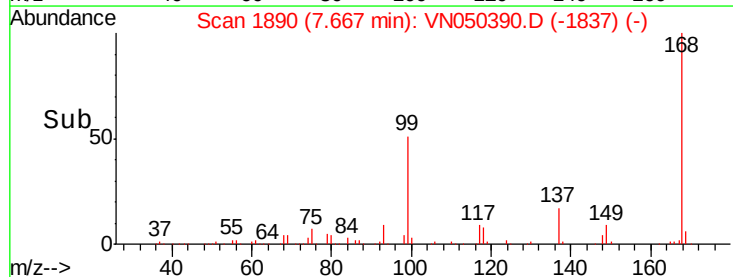
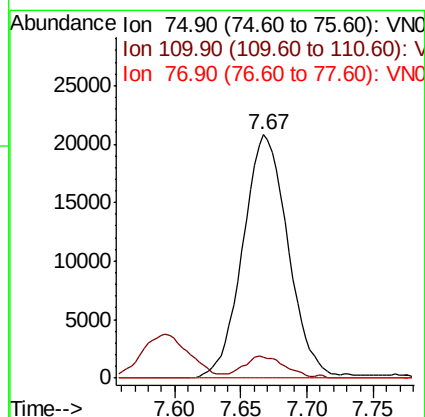
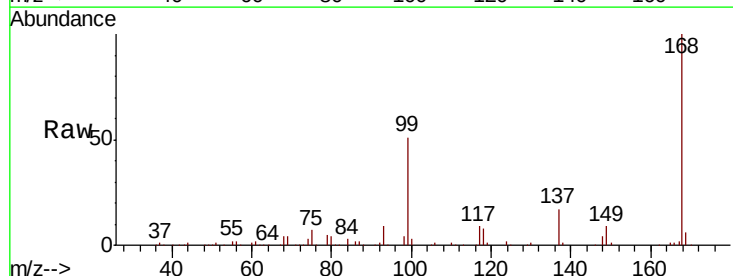
Instrument :
 MSVOA_N
 ClientSampleId :
 PB11760ZHE#05

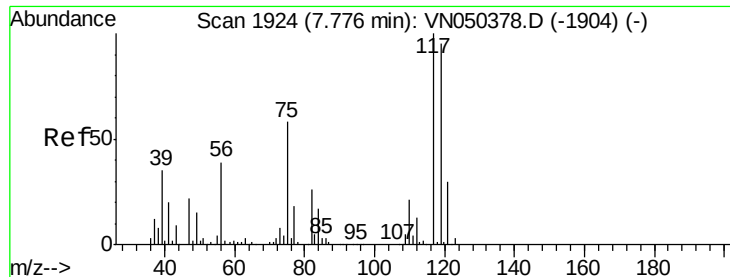
Tot Ion:113 Resp: 442501
 Ion Ratio Lower Upper
 113 100
 111 102.5 80.7 121.1
 192 22.0 17.8 26.6



#36
 1,1-Dichloropropene
 Concen: 3.78 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050390.D
 Acq: 6 Aug 2018 17:55

Tgt Ion: 75 Resp: 49315
 Ion Ratio Lower Upper
 75 100
 110 8.5 18.4 55.2#
 77 0.0 25.3 37.9#

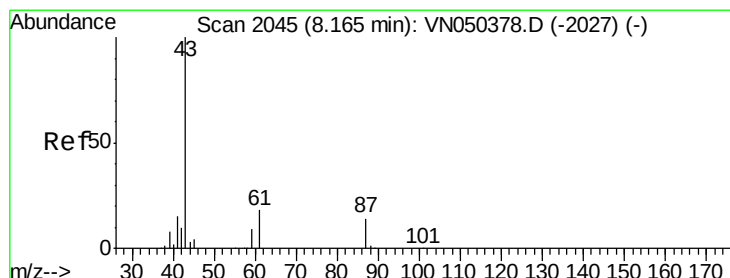
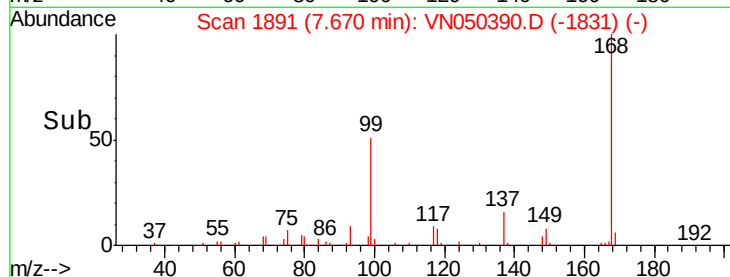
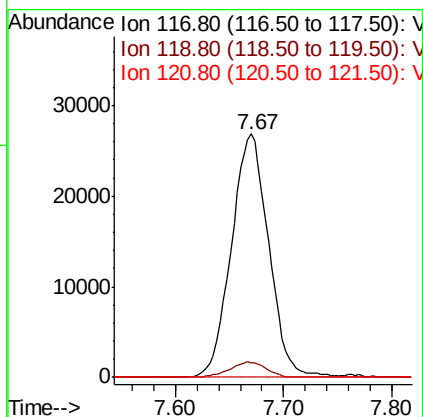
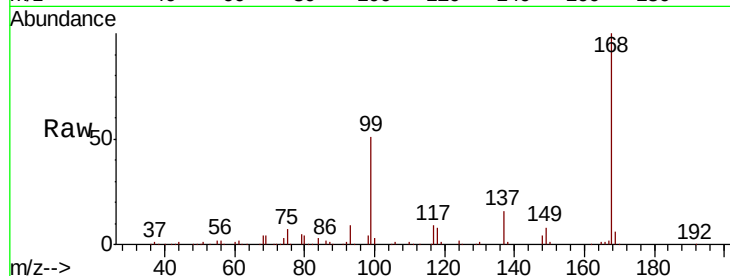




#38
Carbon Tetrachloride
Concen: 4.74 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. -0.11 min
Lab File: VN050390.D
Acq: 6 Aug 2018 17:55

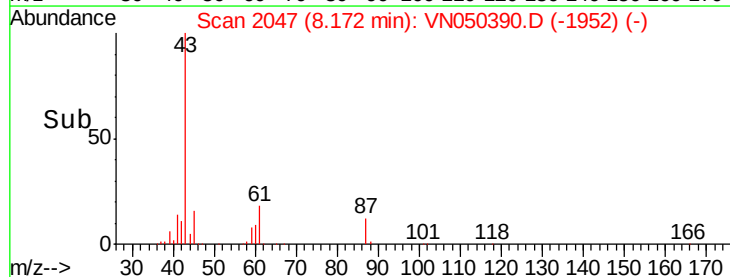
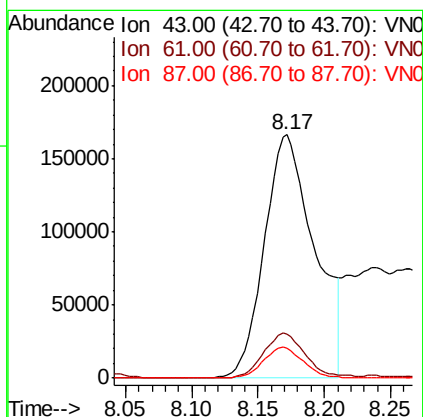
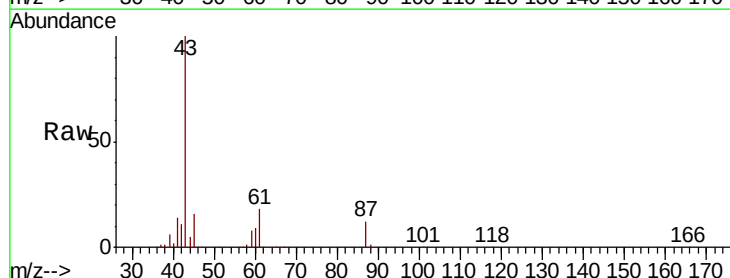
Instrument :
MSVOA_N
ClientSampled :
PB11760ZHE#05

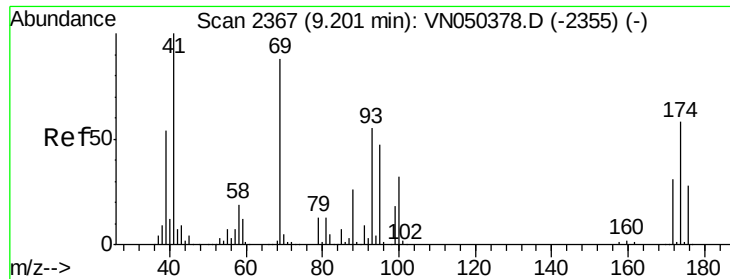
Tot Ion:117 Resp: 64601
Ion Ratio Lower Upper
117 100
119 6.2 77.4 116.0#
121 0.0 23.9 35.9#



#43
Isopropyl Acetate
Concen: 27.15 ug/l
RT: 8.17 min Scan# 2047
Delta R.T. 0.01 min
Lab File: VN050390.D
Acq: 6 Aug 2018 17:55

Tgt Ion: 43 Resp: 440570
Ion Ratio Lower Upper
43 100
61 15.6 15.8 23.6#
87 10.2 10.3 15.5#

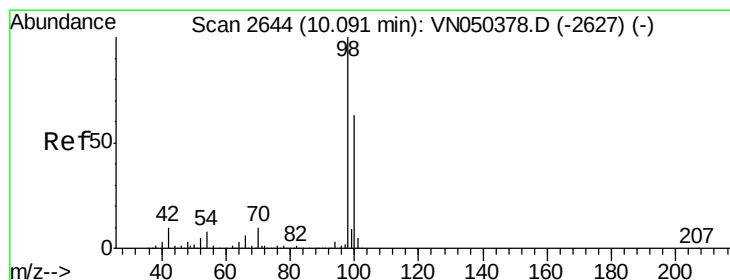
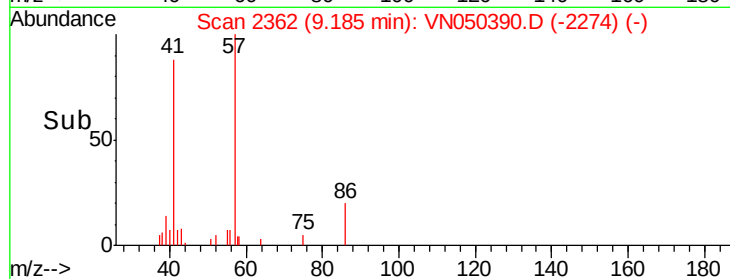
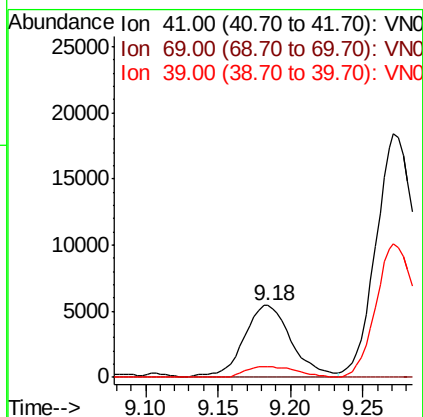
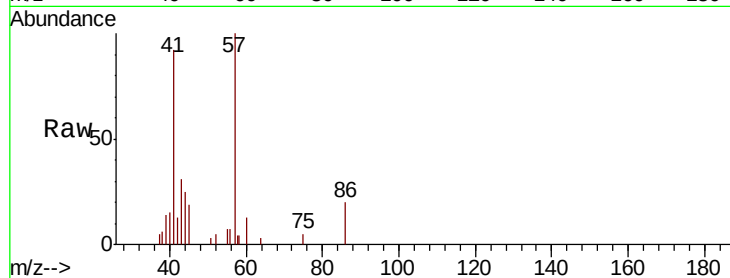




#48
Methvl methacrylate
Concen: 1.54 ug/l
RT: 9.18 min Scan# 2362
Delta R.T. -0.02 min
Lab File: VN050390.D
Acq: 6 Aug 2018 17:55

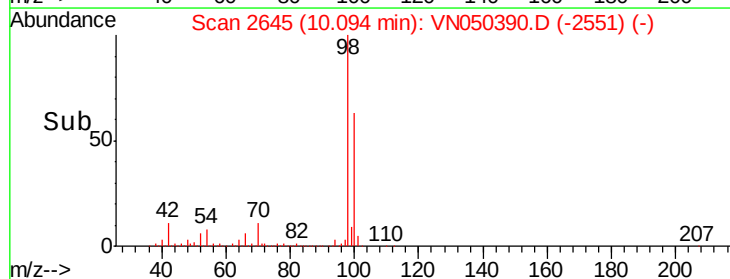
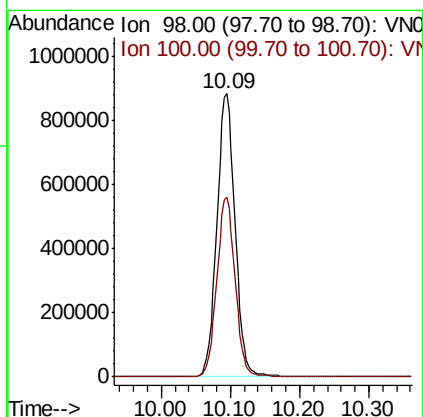
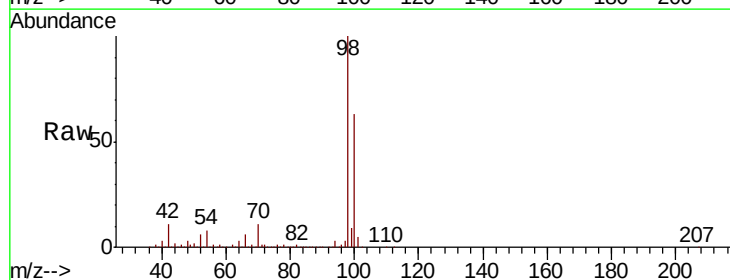
Instrument :
MSVOA_N
ClientSampleId :
PB11760ZHE#05

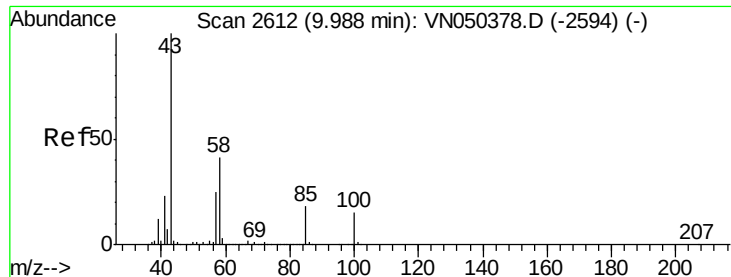
Tot Ion: 41 Resp: 12487
Ion Ratio Lower Upper
41 100
69 0.0 70.6 105.8#
39 15.9 43.9 65.9#



#50
Toluene-d8
Concen: 44.98 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN050390.D
Acq: 6 Aug 2018 17:55

Tgt Ion: 98 Resp: 1611927
Ion Ratio Lower Upper
98 100
100 63.6 50.7 76.1

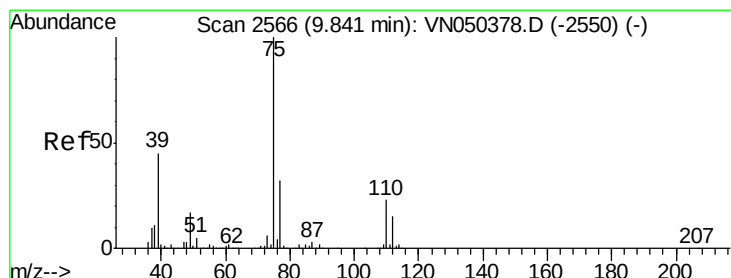
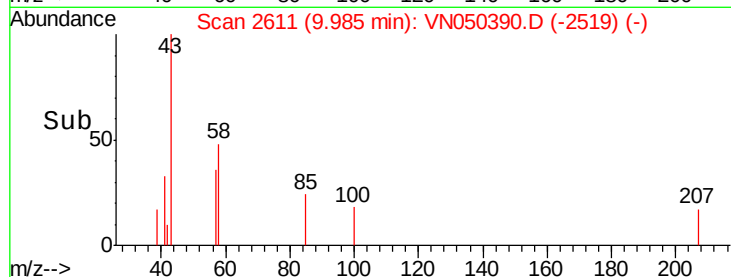
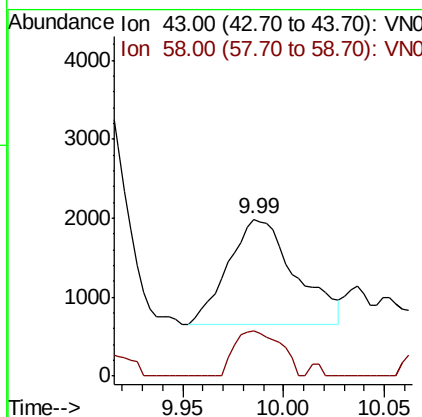
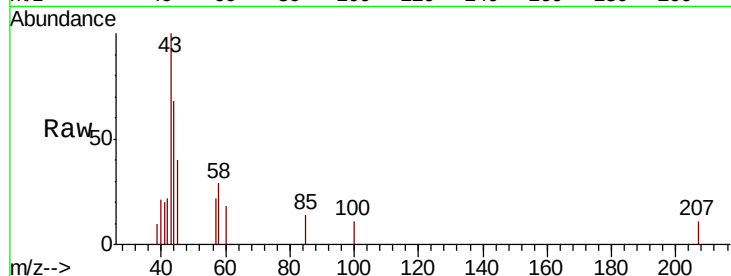




#51
 4-Methyl-2-Pentanone
 Concen: 0.27 ug/l
 RT: 9.99 min Scan# 2611
 Delta R.T. -0.00 min
 Lab File: VN050390.D
 Acq: 6 Aug 2018 17:55

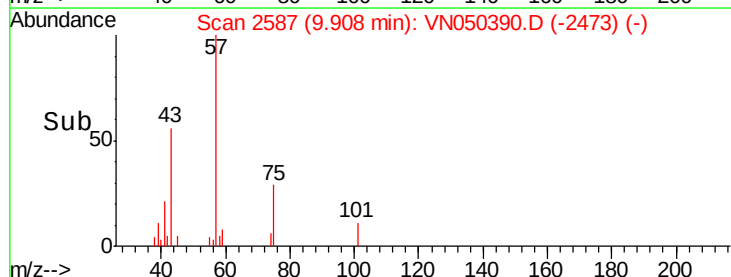
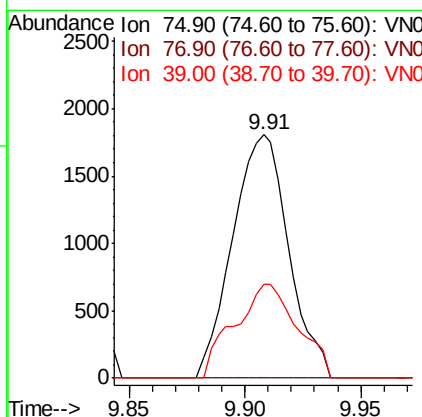
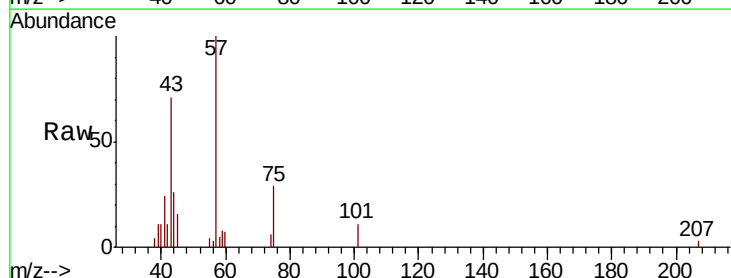
Instrument :
 MSVOA_N
 ClientSampleId :
 PB11760ZHE#05

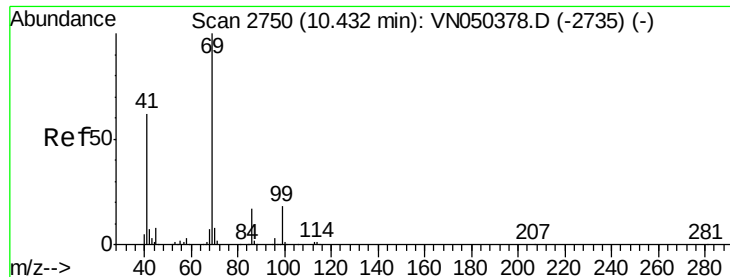
Tot Ion: 43 Resp: 3131
 Ion Ratio Lower Upper
 43 100
 58 29.5 31.9 47.9#



#54
 cis-1,3-Dichloropropene
 Concen: 0.20 ug/l
 RT: 9.91 min Scan# 2587
 Delta R.T. 0.07 min
 Lab File: VN050390.D
 Acq: 6 Aug 2018 17:55

Tgt Ion: 75 Resp: 3031
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.5 38.3#
 39 38.7 36.6 55.0





#56

Ethyl methacrylate

Concen: 1.78 ug/l

RT: 10.65 min Scan# 2817

Delta R.T. 0.22 min

Lab File: VN050390.D

Acq: 6 Aug 2018 17:55

Instrument :

MSVOA_N

ClientSampleId :

PB11760ZHE#05

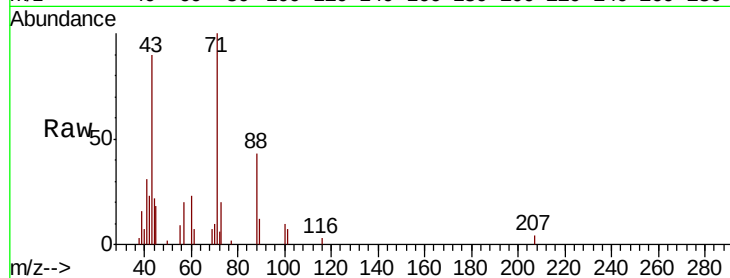
Tot Ion: 69 Resp: 905

Ion Ratio Lower Upper

69 100

41 725.4 51.0 76.4#

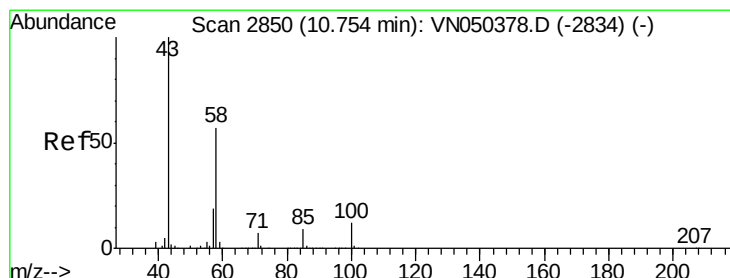
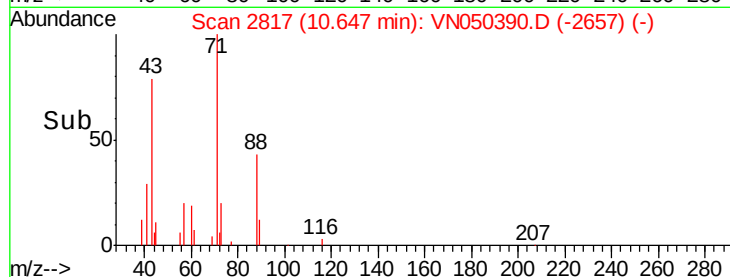
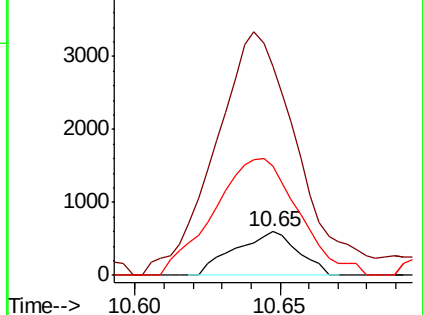
39 359.4 26.6 40.0#



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: 3.24 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050390.D

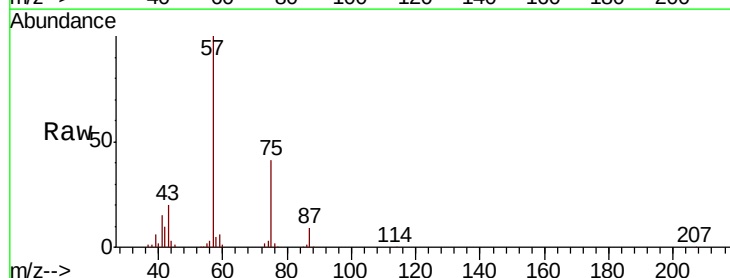
Acq: 6 Aug 2018 17:55

Tgt Ion: 43 Resp: 26383

Ion Ratio Lower Upper

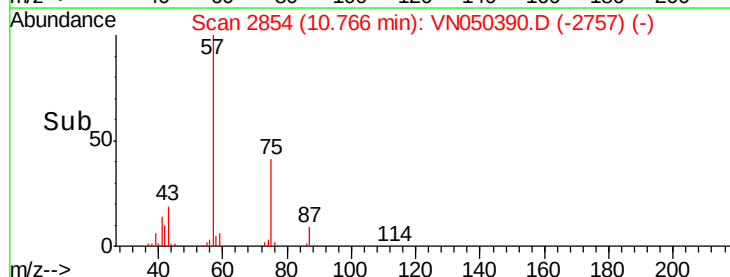
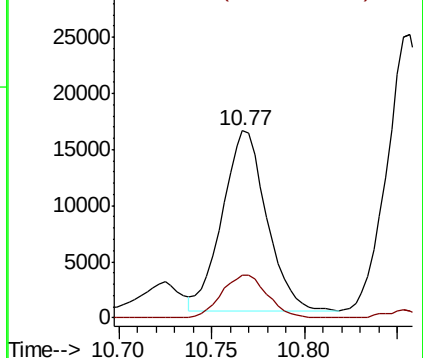
43 100

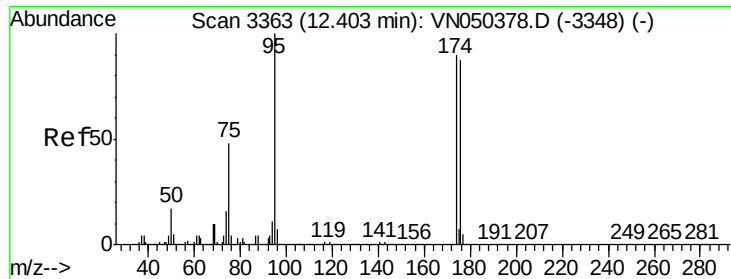
58 24.7 27.6 82.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

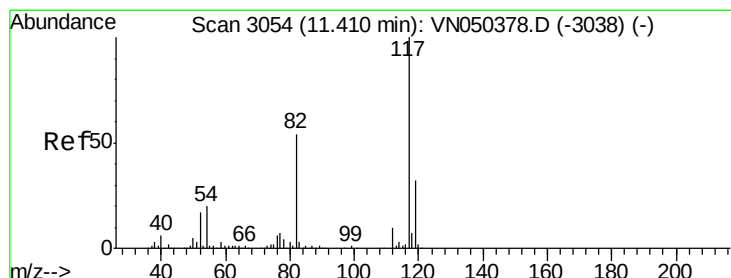
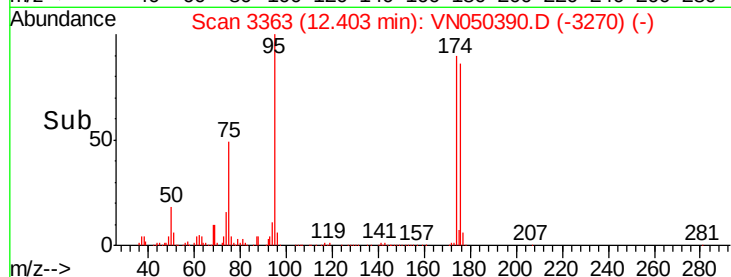
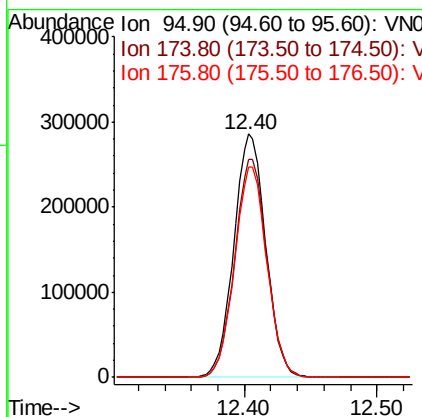
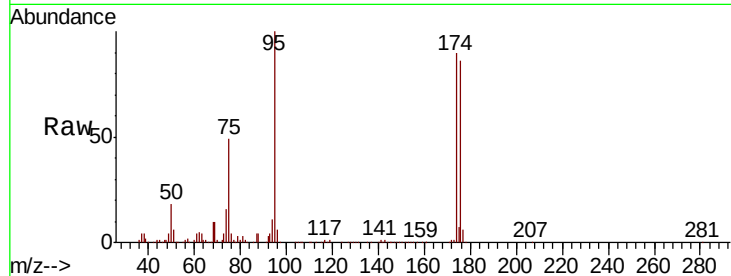




#62
4-Bromofluorobenzene
Concen: 39.05 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. -0.00 min
Lab File: VN050390.D
Acq: 6 Aug 2018 17:55

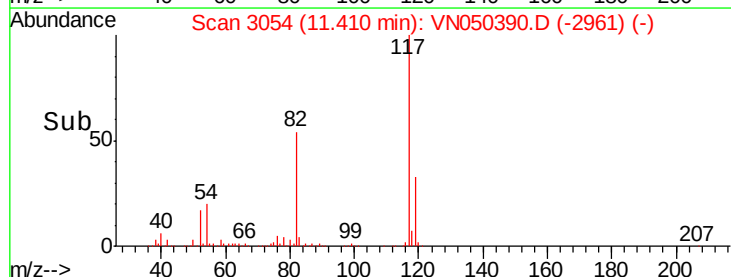
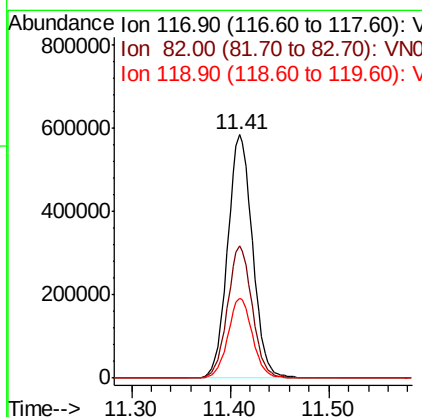
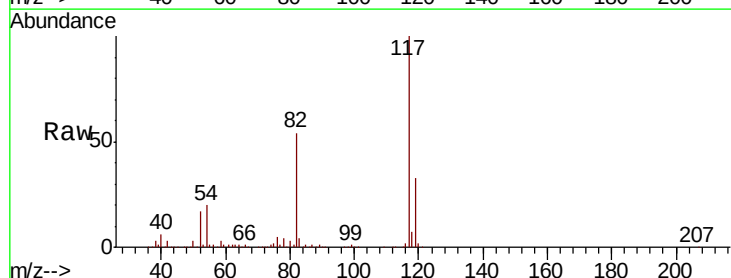
Instrument :
MSVOA_N
ClientSampleId :
PB11760ZHE#05

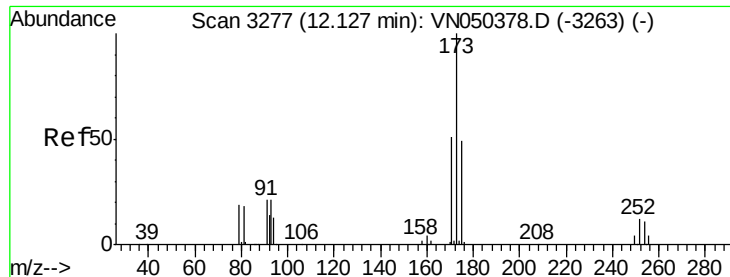
Tot Ion: 95 Resp: 476926
Ion Ratio Lower Upper
95 100
174 90.5 0.0 178.2
176 87.2 0.0 173.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN050390.D
Acq: 6 Aug 2018 17:55

Tgt Ion: 117 Resp: 1030943
Ion Ratio Lower Upper
117 100
82 54.2 43.7 65.5
119 33.0 26.1 39.1





#71

Bromoform

Concen: 0.57 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.28 min

Lab File: VN050390.D

Acq: 6 Aug 2018 17:55

Instrument :

MSVOA_N

ClientSampleId :

PB11760ZHE#05

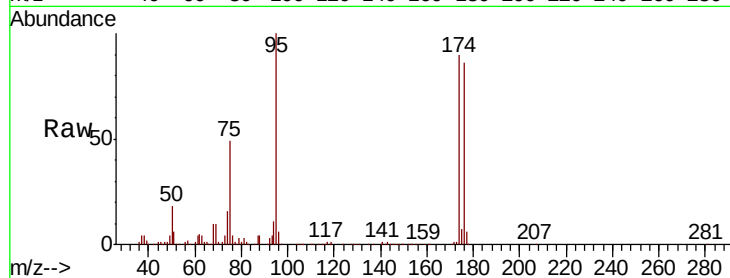
Tot Ion:173 Resp: 3926

Ion Ratio Lower Upper

173 100

175 672.1 24.1 72.2#

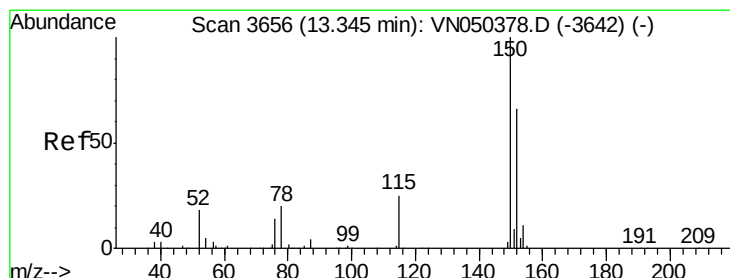
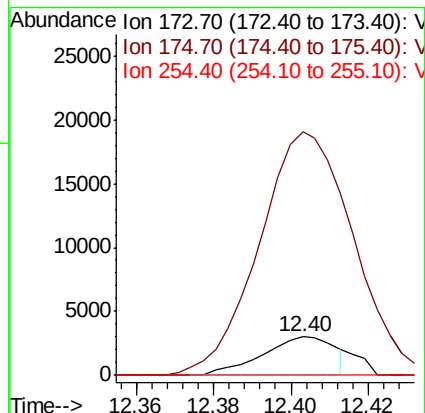
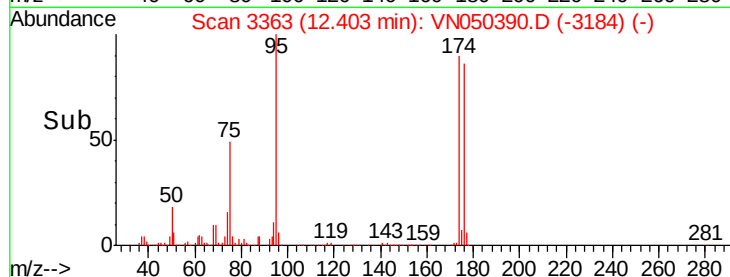
254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. -0.00 min

Lab File: VN050390.D

Acq: 6 Aug 2018 17:55

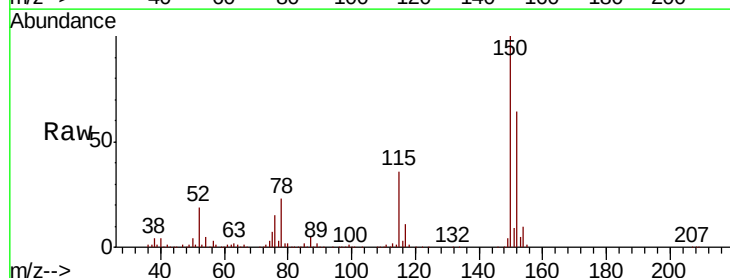
Tgt Ion:152 Resp: 412380

Ion Ratio Lower Upper

152 100

115 56.3 27.8 83.3

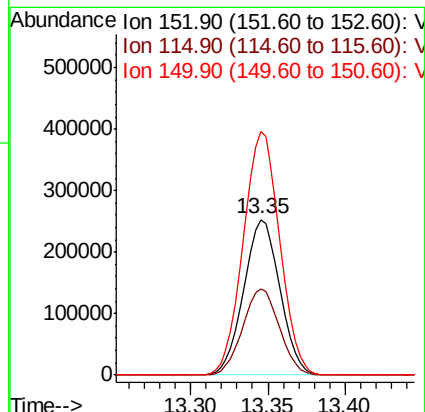
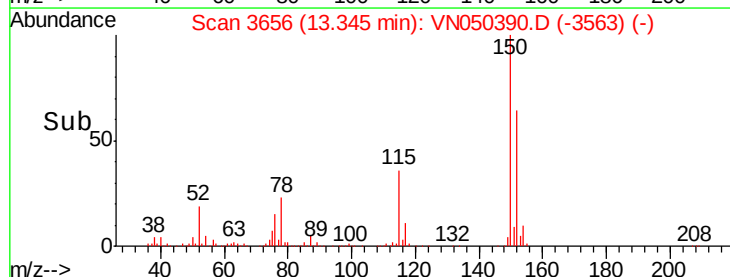
150 158.0 0.0 348.6

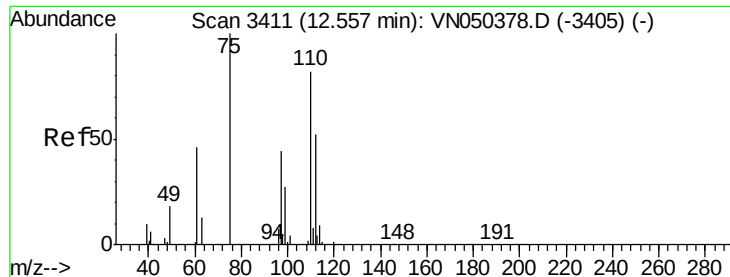


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 31.07 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050390.D

Acq: 6 Aug 2018 17:55

Instrument :

MSVOA_N

ClientSampleId :

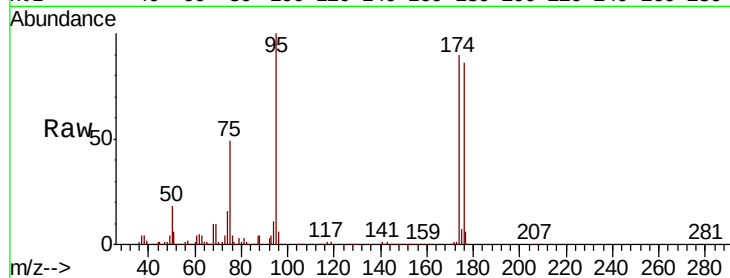
PB11760ZHE#05

Tot Ion: 75 Resp: 231953

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN050390.D (-3318) (-)

Ion 77.00 (76.70 to 77.70): VN050390.D (-3318) (-)

12.40

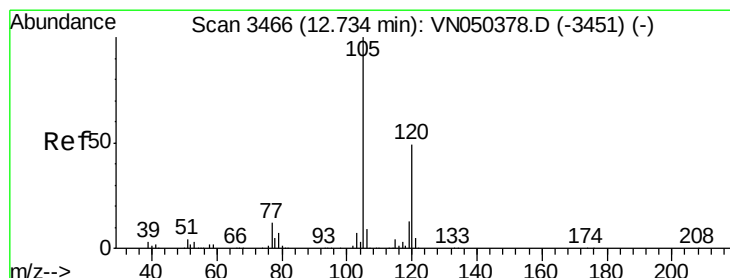
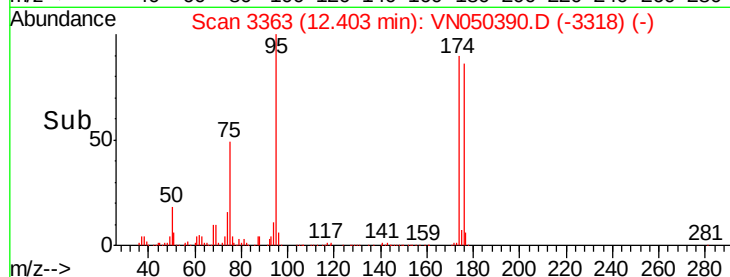
150000

100000

50000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.27 ug/l

RT: 12.74 min Scan# 3467

Delta R.T. 0.00 min

Lab File: VN050390.D

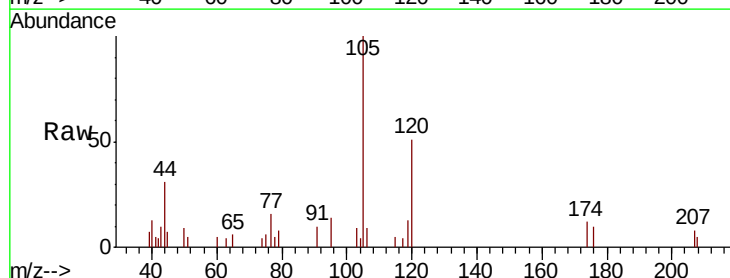
Acq: 6 Aug 2018 17:55

Tgt Ion: 105 Resp: 6737

Ion Ratio Lower Upper

105 100

120 50.2 24.4 73.2



Abundance Ion 105.00 (104.70 to 105.70): VN050390.D (-3373) (-)

Ion 120.00 (119.70 to 120.70): VN050390.D (-3373) (-)

12.74

4000

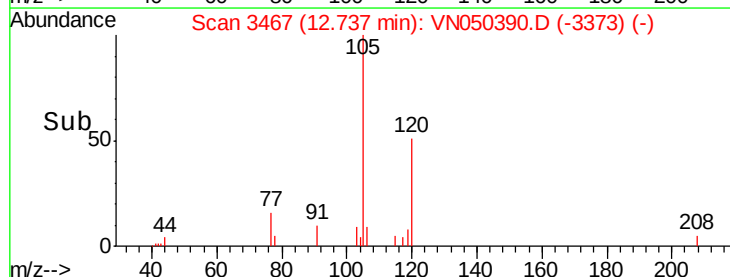
3000

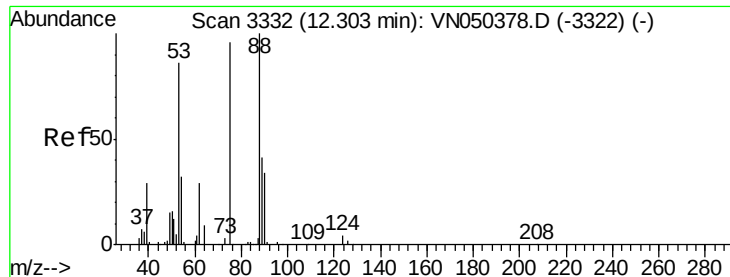
2000

1000

0

Time-->

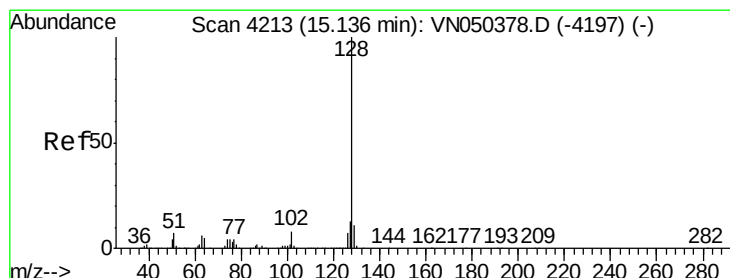
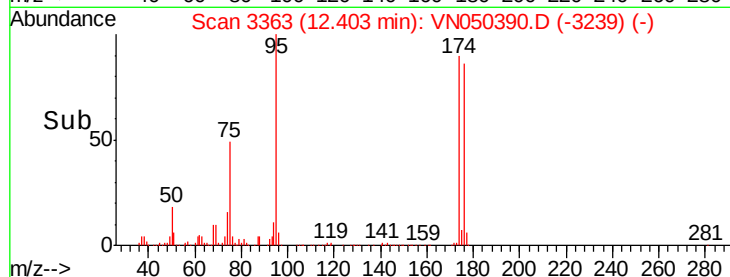
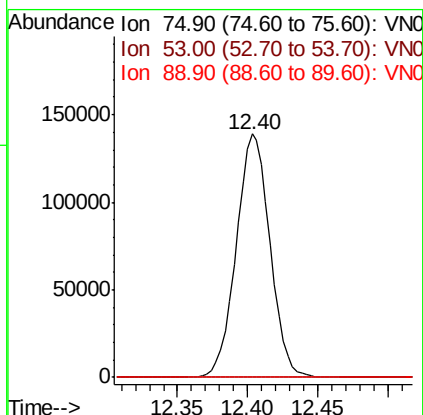
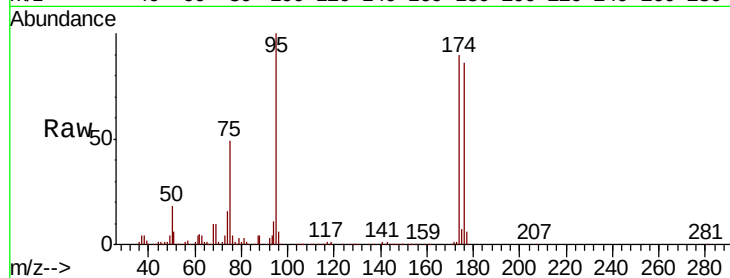




#81
trans-1,4-Dichloro-2-butene
Concen: 109.18 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.10 min
Lab File: VN050390.D
Acq: 6 Aug 2018 17:55

Instrument :
MSVOA_N
ClientSampleId :
PB11760ZHE#05

Tot Ion: 75 Resp: 231953
Ion Ratio Lower Upper
75 100
53 0.2 73.5 110.3#
89 0.0 36.0 54.0#



#95
Naphthalene
Concen: 3.65 ug/l
RT: 15.13 min Scan# 4212
Delta R.T. -0.00 min
Lab File: VN050390.D
Acq: 6 Aug 2018 17:55

Tgt Ion: 128 Resp: 653
Ion Ratio Lower Upper
128 100
127 0.0 10.4 15.6#
129 0.0 8.8 13.2#

