

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082118\
 Data File : VN050790.D
 Acq On : 21 Aug 2018 19:19
 Operator : MD\SY
 Sample : VN0821WBL02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0821WBL02

Quant Time: Aug 22 06:42:52 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	619020	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	960612	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	848741	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	267727	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	406818	54.59	ug/l	0.00
Spiked Amount			Recovery	=	109.18%	
35) Dibromofluoromethane	7.59	113	388476	50.83	ug/l	0.00
Spiked Amount			Recovery	=	101.66%	
50) Toluene-d8	10.09	98	1385947	48.51	ug/l	0.00
Spiked Amount			Recovery	=	97.02%	
62) 4-Bromofluorobenzene	12.40	95	358548	37.76	ug/l	0.00
Spiked Amount			Recovery	=	75.52%	

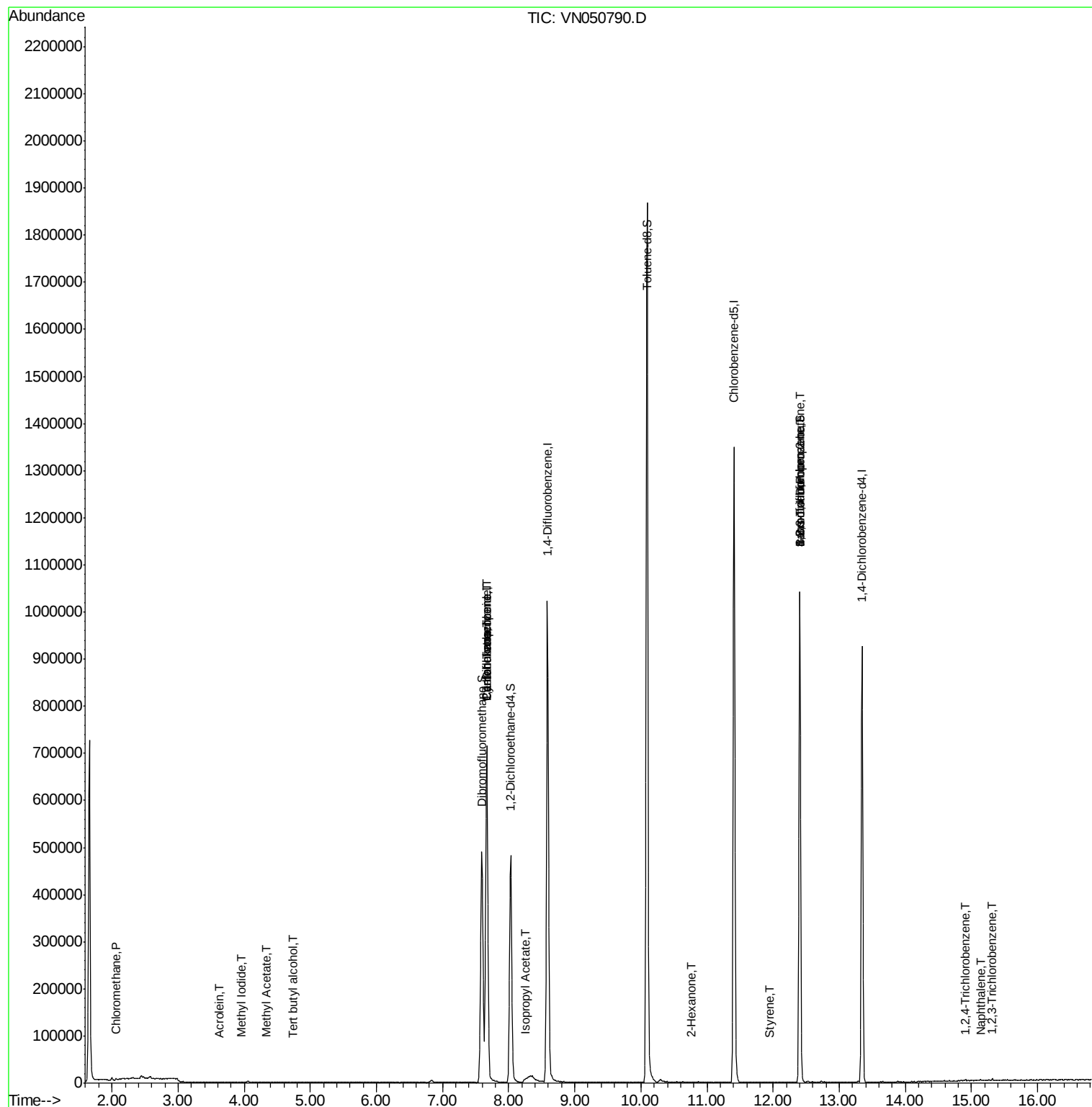
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2937	0.287	ug/l	98
5) Bromomethane	2.57	94	3134	Below Cal		96
10) Methyl Iodide	3.96	142	934	6.461	ug/l #	66
11) Tert butyl alcohol	4.73	59	98	0.207	ug/l #	72
13) Acrolein	3.62	56	102	18.255	ug/l #	14
16) Acetone	3.83	43	787	Below Cal	#	41
18) Methyl Acetate	4.33	43	1531	0.218	ug/l #	78
31) Cyclohexane	7.66	56	11164	1.339	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	41889	3.695	ug/l #	48
38) Carbon Tetrachloride	7.67	117	55375	4.833	ug/l #	16
43) Isopropyl Acetate	8.25	43	3950	0.353	ug/l #	58
59) 2-Hexanone	10.75	43	931	0.209	ug/l #	54
70) Styrene	11.96	104	538	1.293	ug/l #	38
71) Bromoform	12.40	173	3181	0.570	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.50	83	104	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.40	75	168966	36.033	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	168966	121.811	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.91	180	1032	4.267	ug/l	77
94) Hexachlorobutadiene	15.01	225	408	Below Cal		75
95) Naphthalene	15.14	128	2694	5.625	ug/l #	75
96) 1,2,3-Trichlorobenzene	15.31	180	1294	3.547	ug/l	92

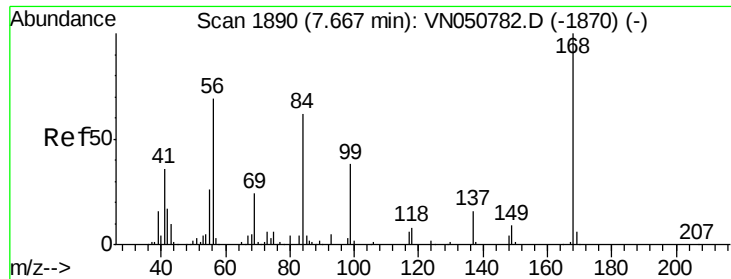
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050790.D

Acq: 21 Aug 2018 19:19

Instrument :

MSVOA_N

ClientSampleId :

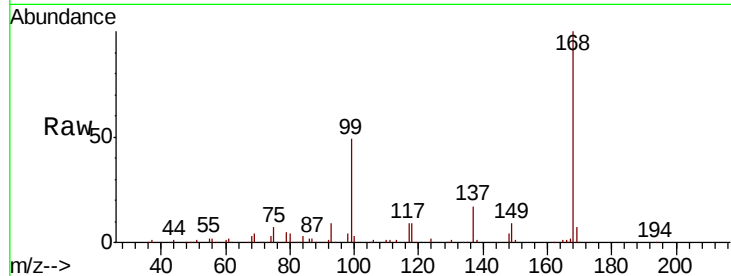
VN0821WBL02

Tot Ion:168 Resp: 619020

Ion Ratio Lower Upper

168 100

99 49.3 39.6 59.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

250000

200000

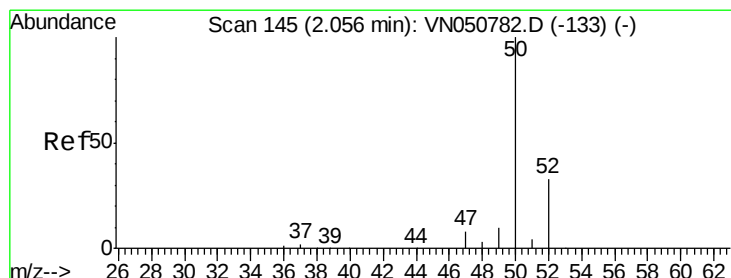
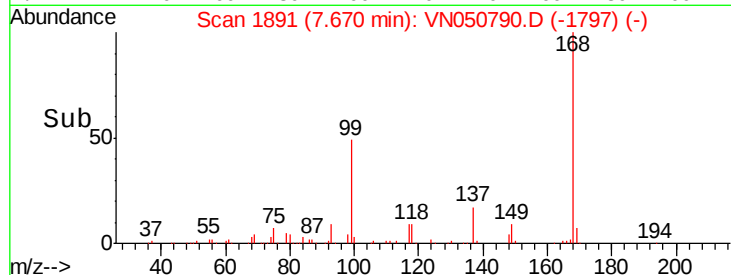
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.287 ug/l

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN050790.D

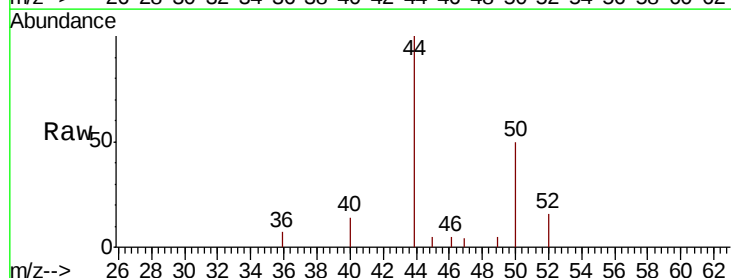
Acq: 21 Aug 2018 19:19

Tgt Ion: 50 Resp: 2937

Ion Ratio Lower Upper

50 100

52 32.1 26.3 39.5



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.06

2500

2000

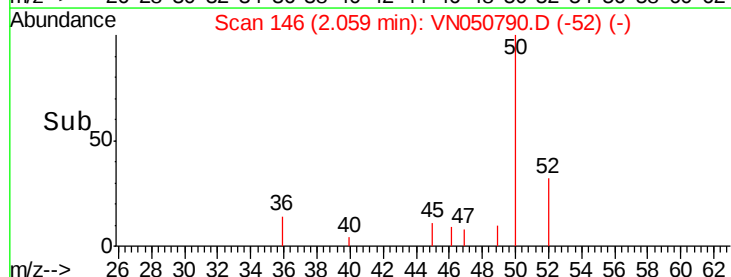
1500

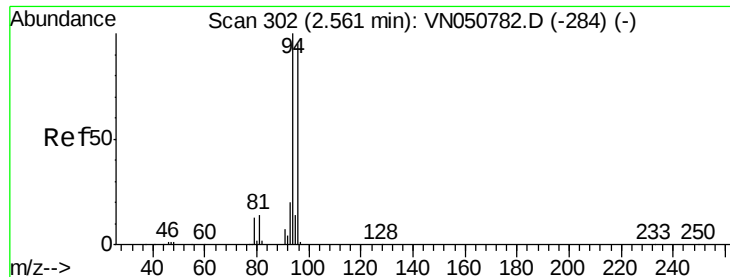
1000

500

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 306

Delta R.T. 0.01 min

Lab File: VN050790.D

Acq: 21 Aug 2018 19:19

Instrument :

MSVOA_N

ClientSampleId :

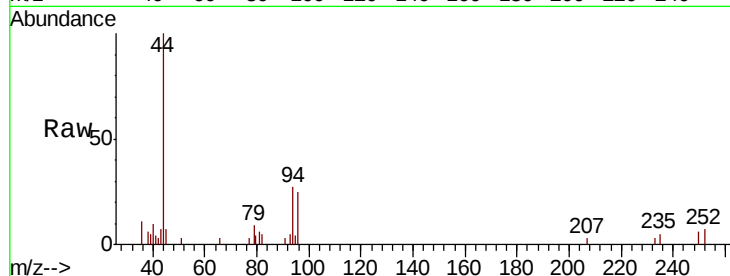
VN0821WBL02

Tot Ion: 94 Resp: 3134

Ion Ratio Lower Upper

94 100

96 91.4 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) (-)

2.57

1500

1000

500

0

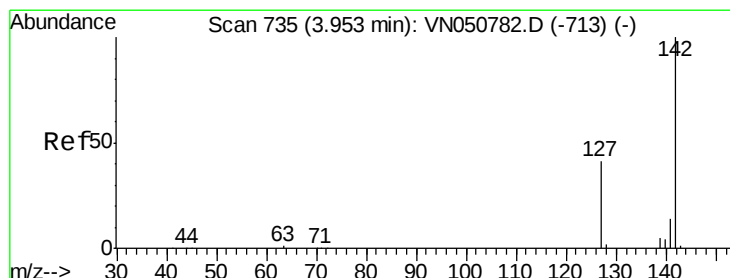
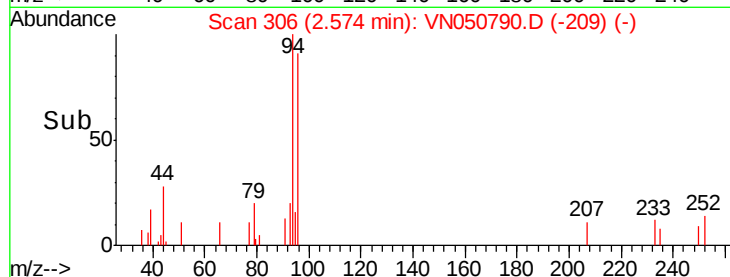
Time-->

2.50

2.55

2.60

2.65



#10

Methyl Iodide

Concen: 6.461 ug/l

RT: 3.96 min Scan# 736

Delta R.T. 0.00 min

Lab File: VN050790.D

Acq: 21 Aug 2018 19:19

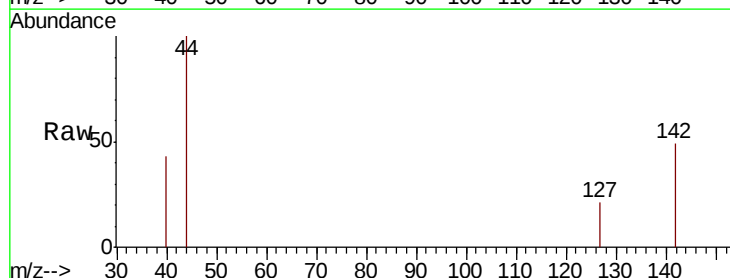
Tgt Ion: 142 Resp: 934

Ion Ratio Lower Upper

142 100

127 60.5 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) (-)

3.96

800

600

400

200

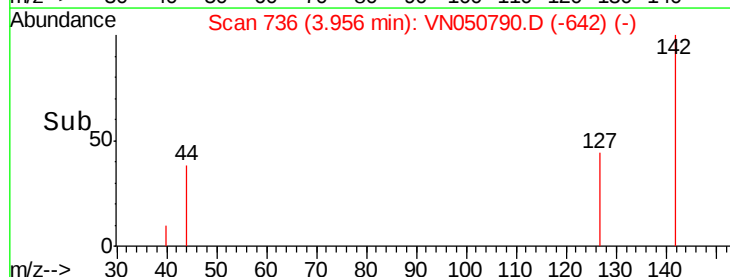
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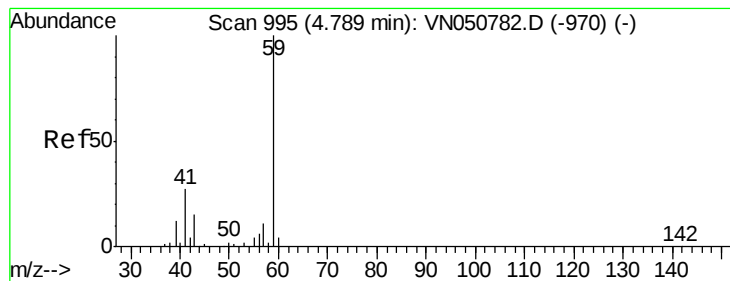
Time-->

3.92

3.94

3.96



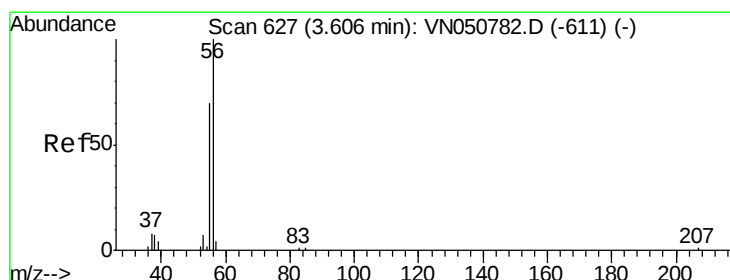
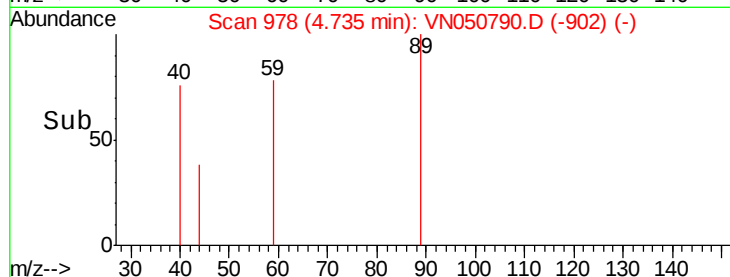
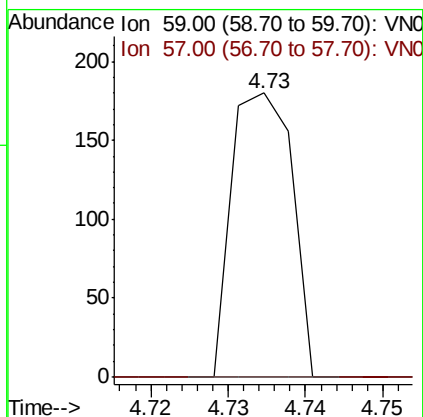
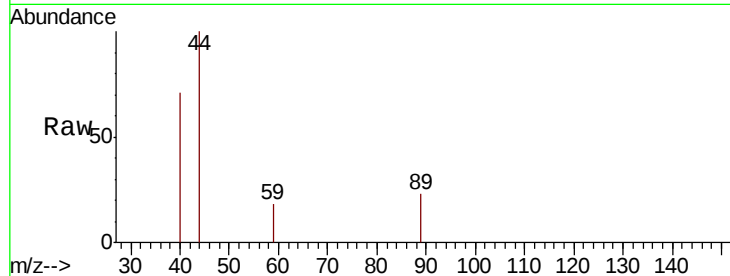


#11

Tert butyl alcohol
 Concen: 0.207 ug/l
 RT: 4.73 min Scan# 978
 Delta R.T. -0.05 min
 Lab File: VN050790.D
 Acq: 21 Aug 2018 19:19

Instrument :
 MSVOA_N
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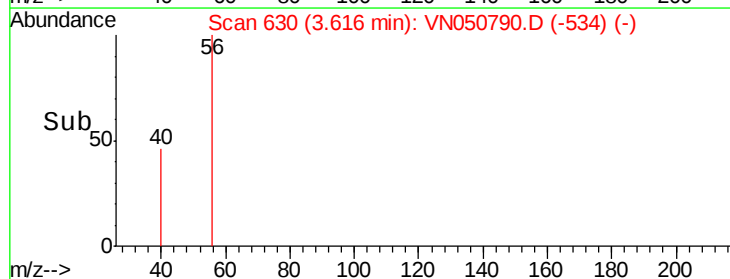
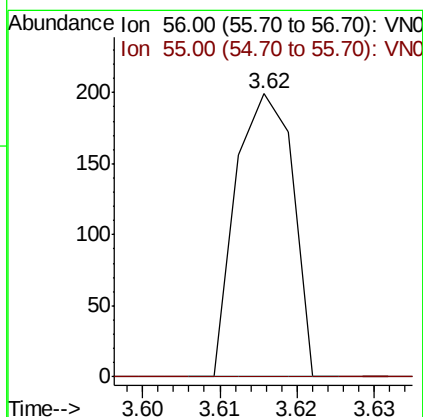
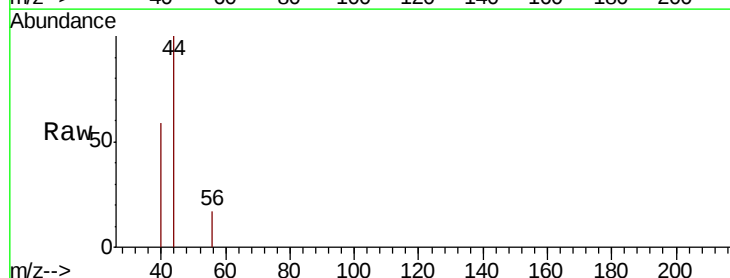
Tot Ion: 59 Resp: 98
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#

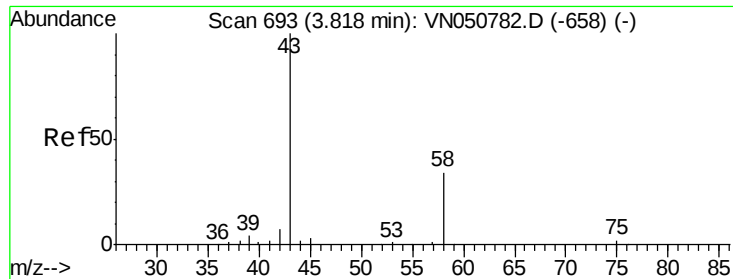


#13

Acrolein
 Concen: 18.255 ug/l
 RT: 3.62 min Scan# 630
 Delta R.T. 0.01 min
 Lab File: VN050790.D
 Acq: 21 Aug 2018 19:19

Tgt Ion: 56 Resp: 102
 Ion Ratio Lower Upper
 56 100
 55 0.0 57.7 86.5#

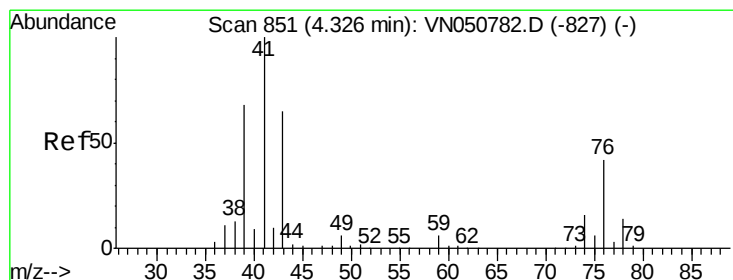
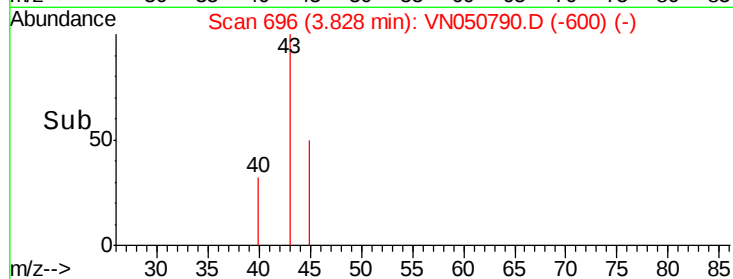
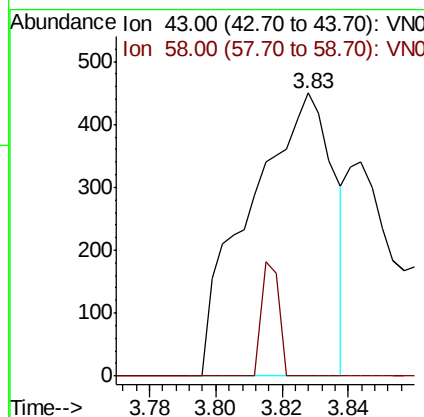
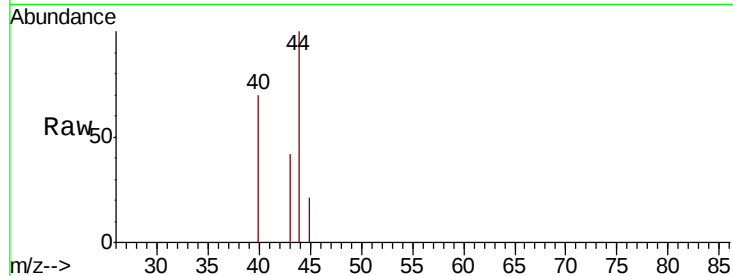




#16
 Acetone
 Concen: Below Cal
 RT: 3.83 min Scan# 696
 Delta R.T. 0.01 min
 Lab File: VN050790.D
 Acq: 21 Aug 2018 19:19

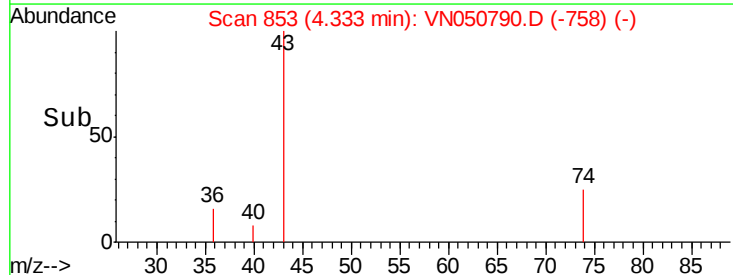
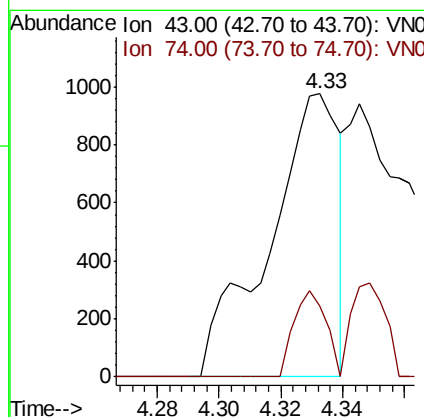
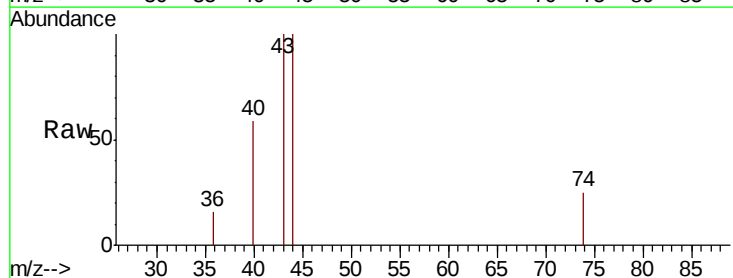
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0821WBL02

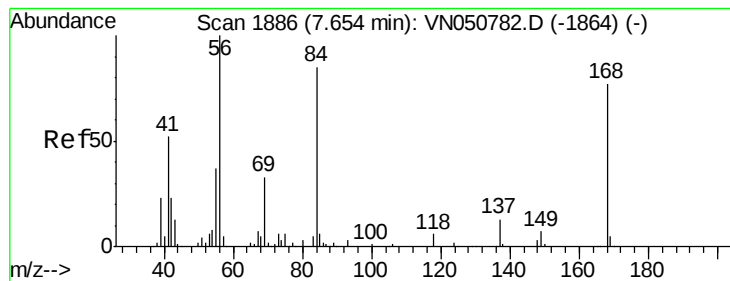
Tot Ion: 43 Resp: 787
 Ion Ratio Lower Upper
 43 100
 58 0.0 27.2 40.8#



#18
 Methyl Acetate
 Concen: 0.218 ug/l
 RT: 4.33 min Scan# 853
 Delta R.T. 0.01 min
 Lab File: VN050790.D
 Acq: 21 Aug 2018 19:19

Tgt Ion: 43 Resp: 1531
 Ion Ratio Lower Upper
 43 100
 74 13.9 19.8 29.8#





#31

Cyclohexane

Concen: 1.339 ug/l

RT: 7.66 min Scan# 1889

Delta R.T. 0.01 min

Lab File: VN050790.D

Acq: 21 Aug 2018 19:19

Instrument :

MSVOA_N

ClientSampleId :

VN0821WBL02

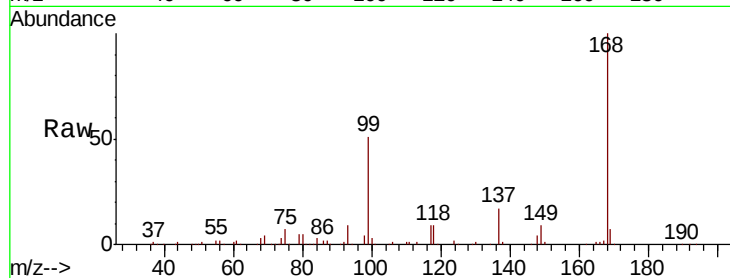
Tot Ion: 56 Resp: 11164

Ion Ratio Lower Upper

56 100

69 180.1 26.2 39.4#

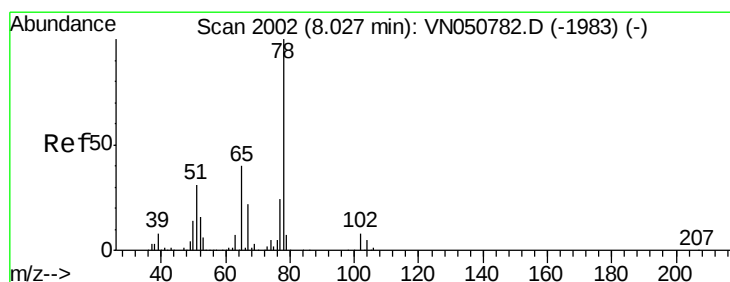
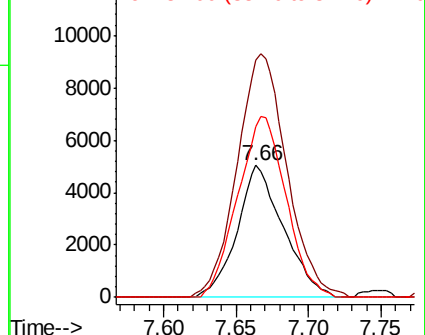
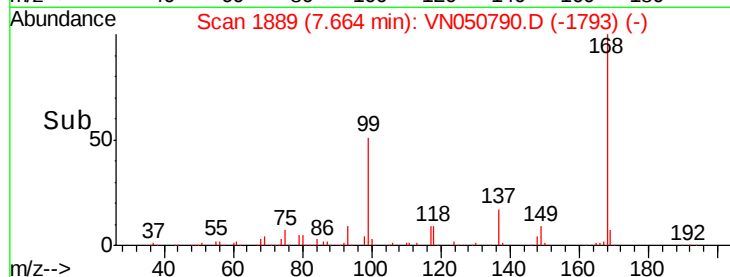
84 129.7 68.3 102.5#



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: 54.591 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN050790.D

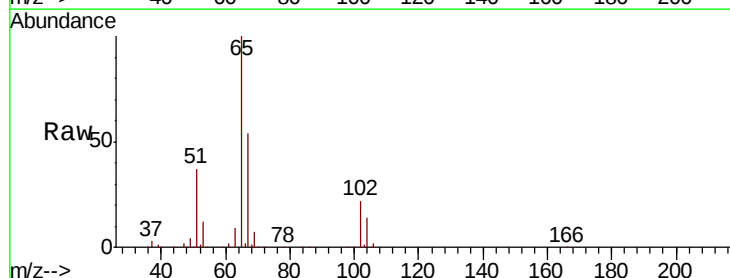
Acq: 21 Aug 2018 19:19

Tgt Ion: 65 Resp: 406818

Ion Ratio Lower Upper

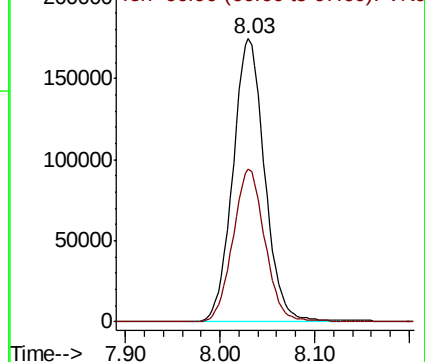
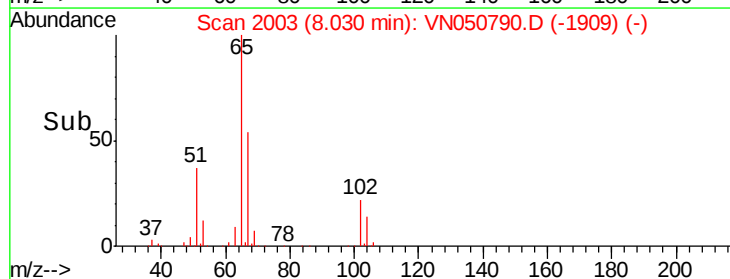
65 100

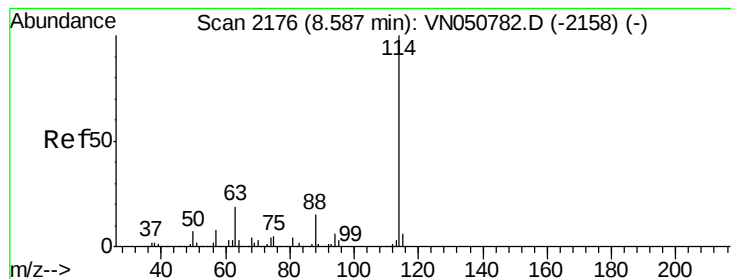
67 54.6 0.0 110.4



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VN050790.D

Acq: 21 Aug 2018 19:19

Instrument :

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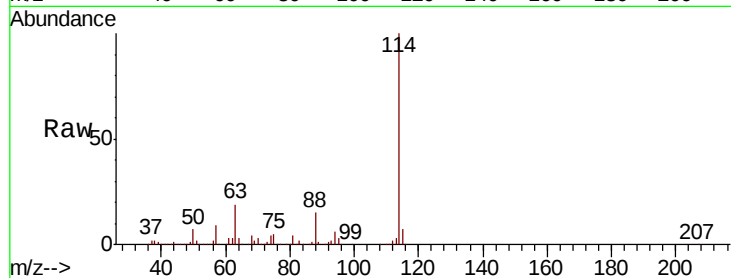
Tot Ion:114 Resp: 960612

Ion Ratio Lower Upper

114 100

63 19.2 0.0 38.6

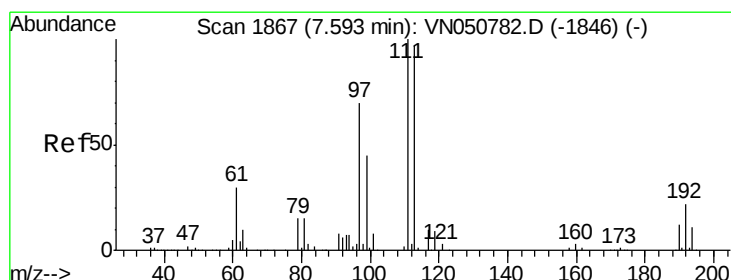
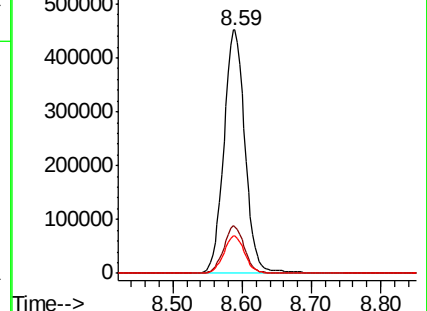
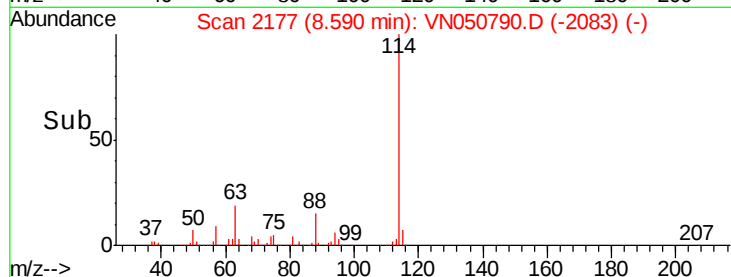
88 15.5 0.0 30.6



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: 50.833 ug/l

RT: 7.59 min Scan# 1867

Delta R.T. -0.00 min

Lab File: VN050790.D

Acq: 21 Aug 2018 19:19

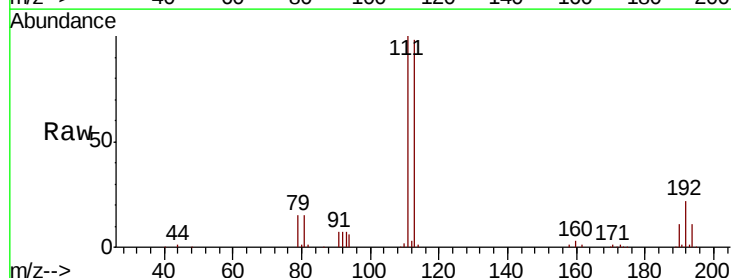
Tgt Ion:113 Resp: 388476

Ion Ratio Lower Upper

113 100

111 101.7 82.6 123.8

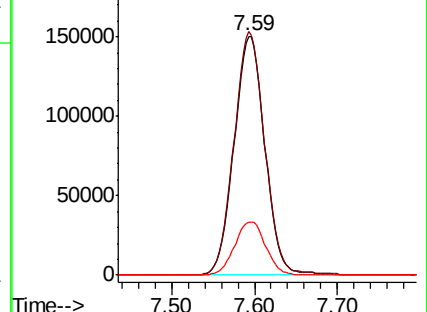
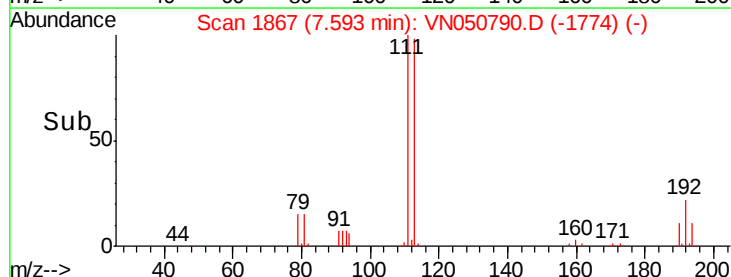
192 22.7 18.0 27.0

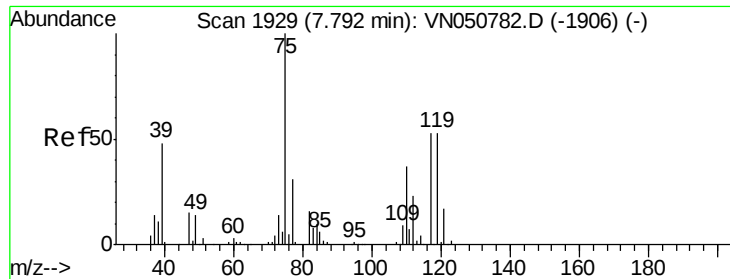


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

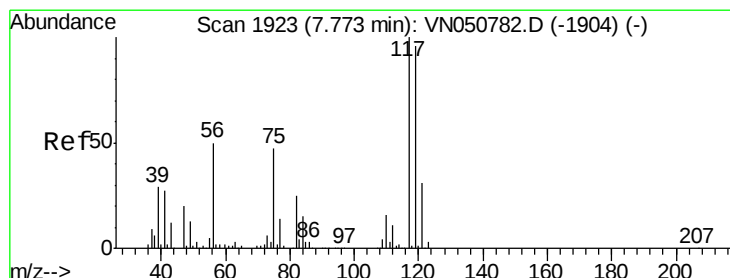
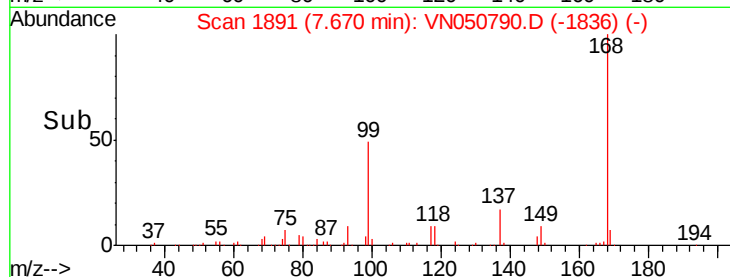
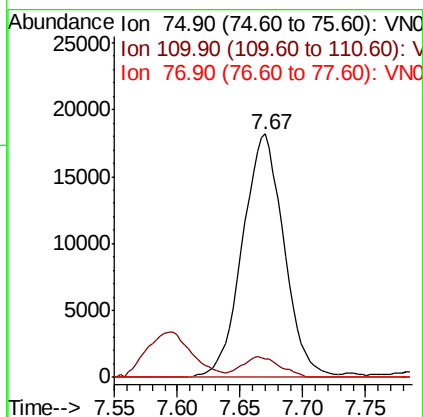
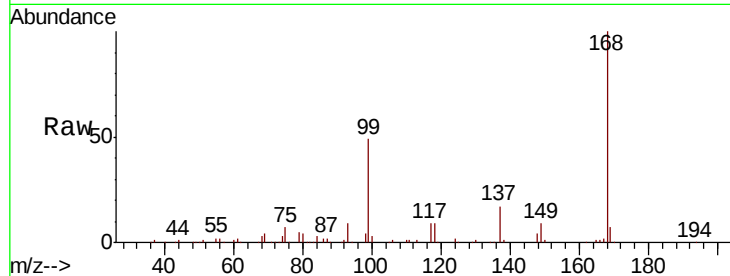




#36
 1,1-Dichloropropene
 Concen: 3.695 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.12 min
 Lab File: VN050790.D
 Acq: 21 Aug 2018 19:19

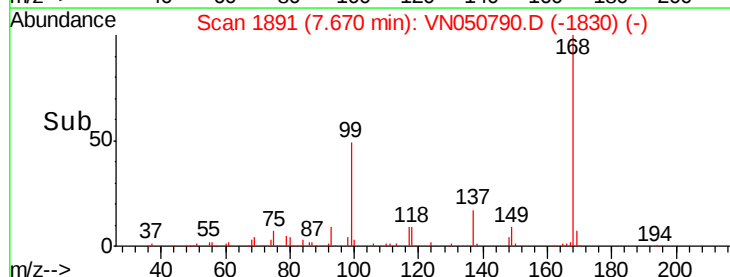
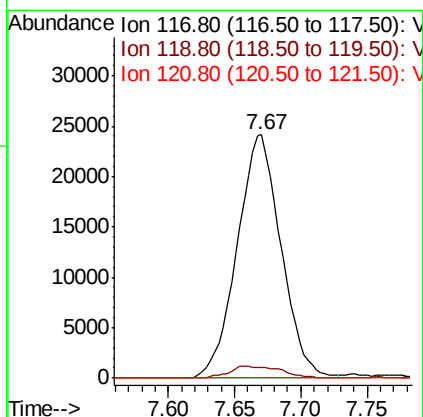
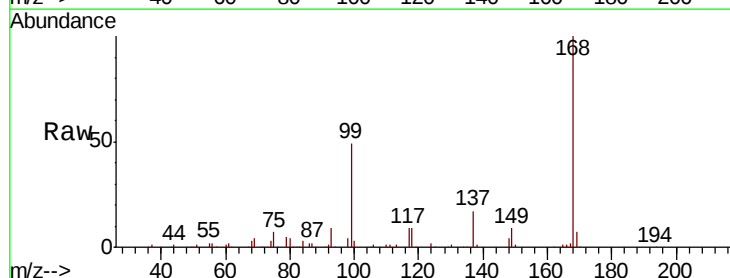
Instrument :
 MSVOA_N
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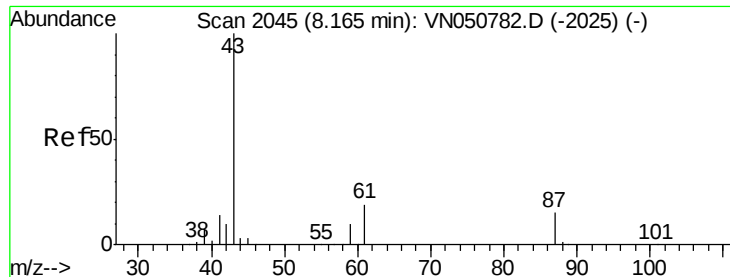
Tot Ion	Ratio	Lower	Upper
75	100		
110	7.8	18.1	54.4#
77	0.0	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 4.833 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.10 min
 Lab File: VN050790.D
 Acq: 21 Aug 2018 19:19

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.4	76.3	114.5#
121	0.0	24.6	36.8#





#43

Isopropyl Acetate

Concen: 0.353 ug/l

RT: 8.25 min Scan# 2070

Delta R.T. 0.08 min

Lab File: VN050790.D

Acq: 21 Aug 2018 19:19

Instrument :

MSVOA_N

ClientSampleId :

VN0821WBL02

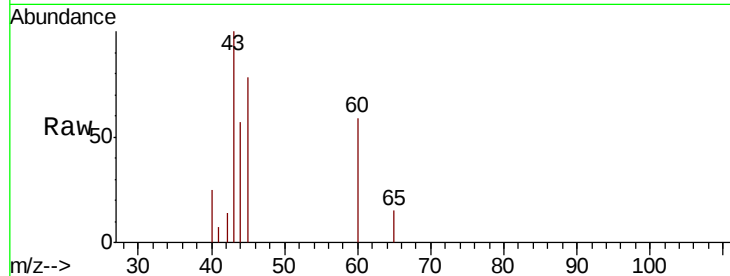
Tot Ion: 43 Resp: 3950

Ion Ratio Lower Upper

43 100

61 0.0 17.5 26.3#

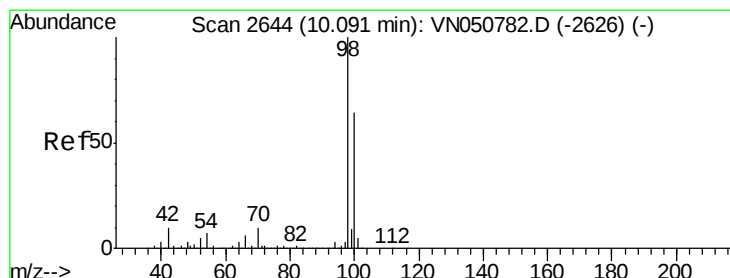
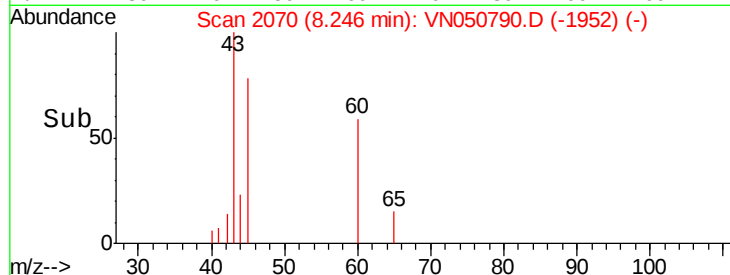
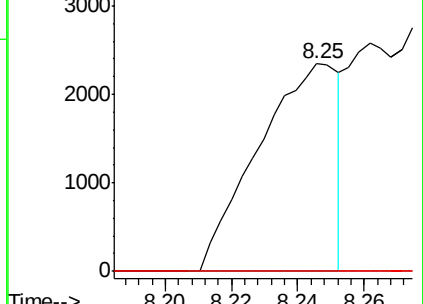
87 0.0 11.3 16.9#



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



#50

Toluene-d8

Concen: 48.507 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN050790.D

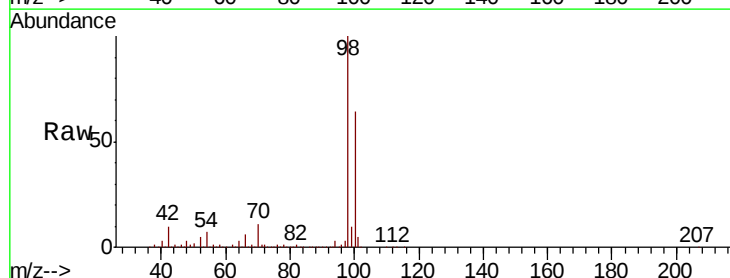
Acq: 21 Aug 2018 19:19

Tgt Ion: 98 Resp: 1385947

Ion Ratio Lower Upper

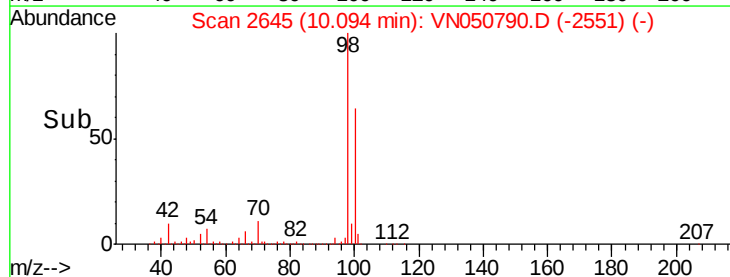
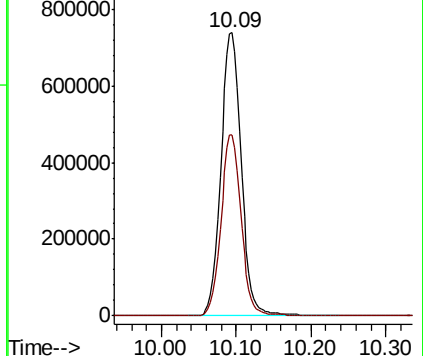
98 100

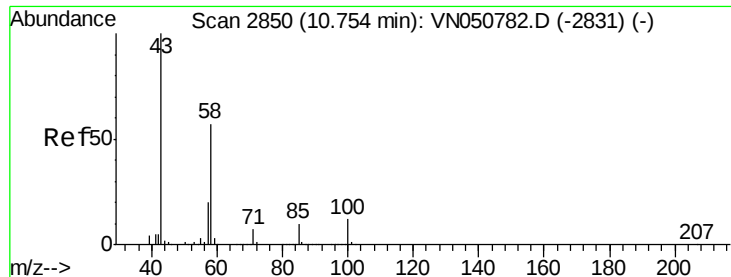
100 63.3 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#59

2-Hexanone

Concen: 0.209 ug/l

RT: 10.75 min Scan# 2849

Delta R.T. -0.00 min

Lab File: VN050790.D

Acq: 21 Aug 2018 19:19

Instrument :

MSVOA_N

ClientSampled :

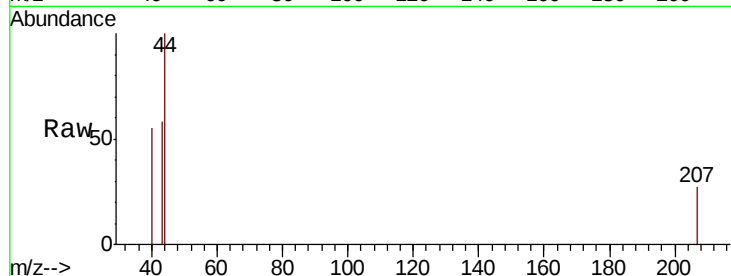
VN0821WBL02

Tot Ion: 43 Resp: 931

Ion Ratio Lower Upper

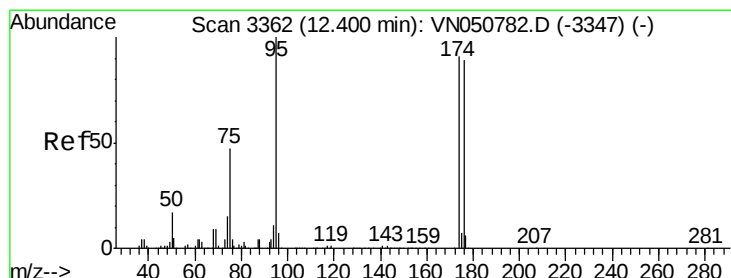
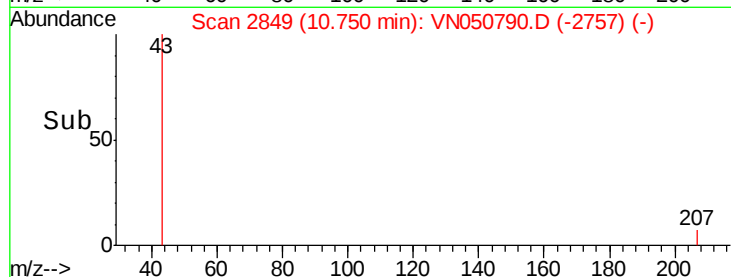
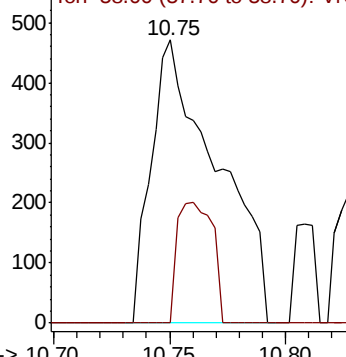
43 100

58 22.8 28.3 85.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#62

4-Bromofluorobenzene

Concen: 37.763 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050790.D

Acq: 21 Aug 2018 19:19

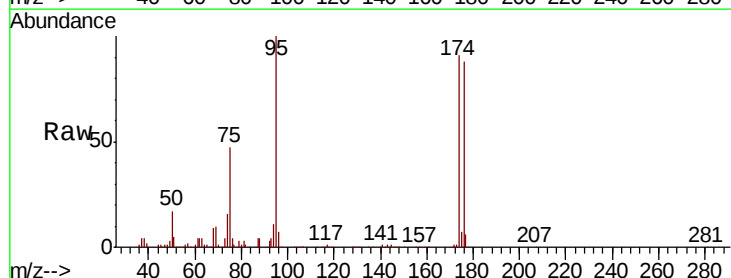
Tgt Ion: 95 Resp: 358548

Ion Ratio Lower Upper

95 100

174 92.2 0.0 183.0

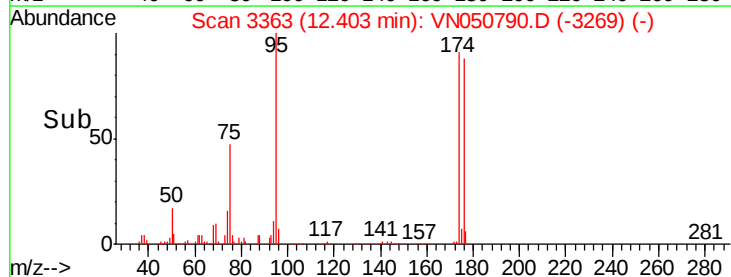
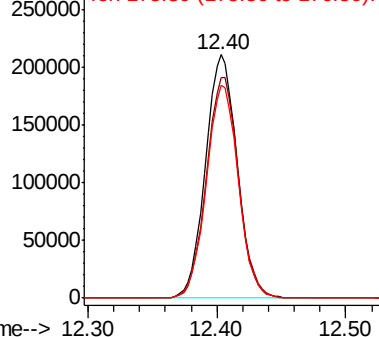
176 88.4 0.0 178.8

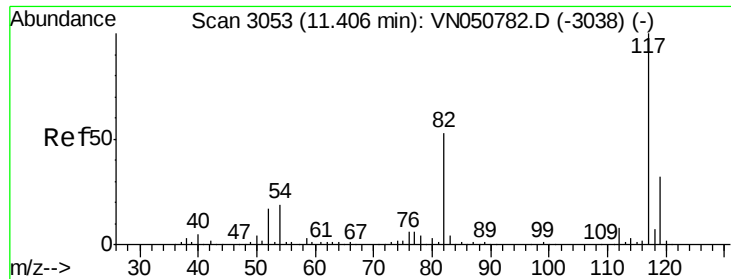


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

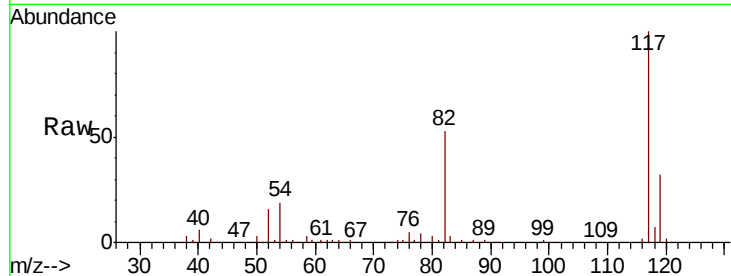




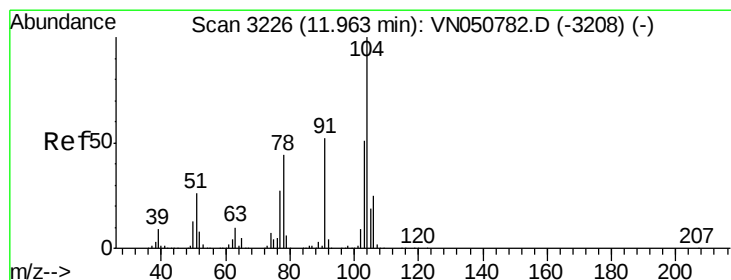
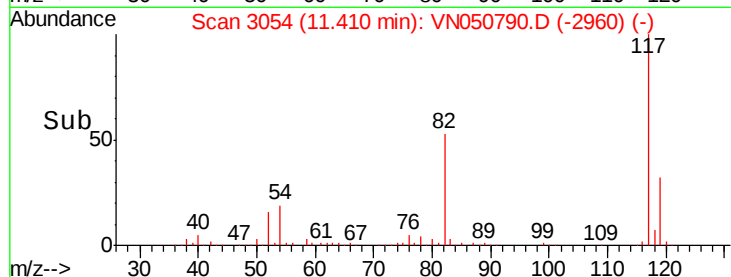
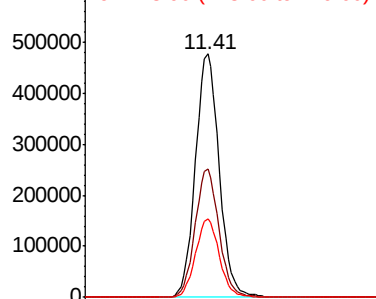
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050790.D
Acq: 21 Aug 2018 19:19

Instrument :
MSVOA_N
ClientSampleId :
VN0821WBL02

Tot Ion:117 Resp: 848741
Ion Ratio Lower Upper
117 100
82 52.5 42.6 64.0
119 32.4 25.8 38.6

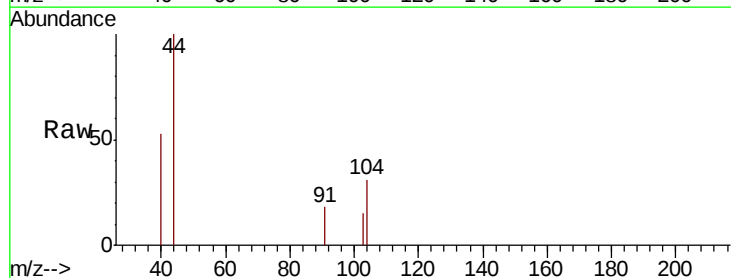


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

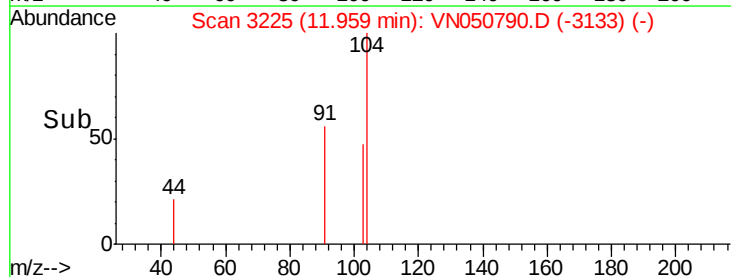
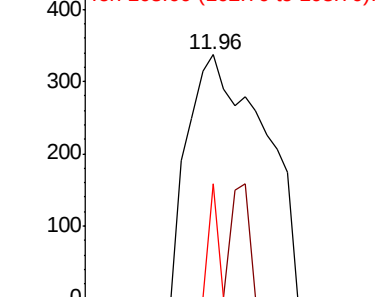


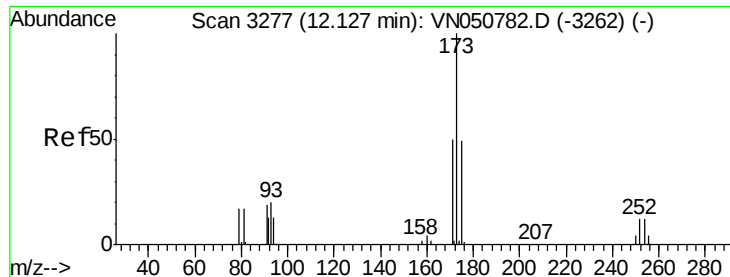
#70
Styrene
Concen: 1.293 ug/l
RT: 11.96 min Scan# 3225
Delta R.T. -0.00 min
Lab File: VN050790.D
Acq: 21 Aug 2018 19:19

Tgt Ion:104 Resp: 538
Ion Ratio Lower Upper
104 100
78 11.2 38.2 57.4#
103 5.6 44.4 66.6#



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





#71

Bromoform

Concen: 0.570 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.28 min

Lab File: VN050790.D

Acq: 21 Aug 2018 19:19

Instrument :

MSVOA_N

ClientSampleId :

VN0821WBL02

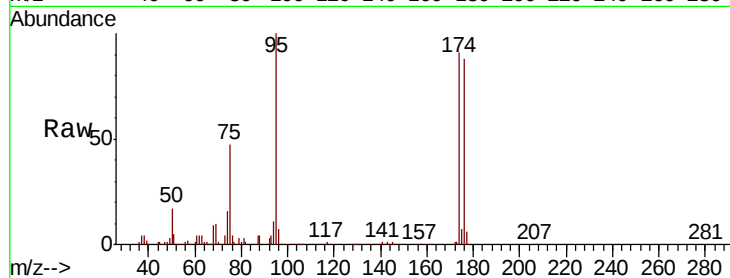
Tot Ion:173 Resp: 3181

Ion Ratio Lower Upper

173 100

175 629.1 24.4 73.4#

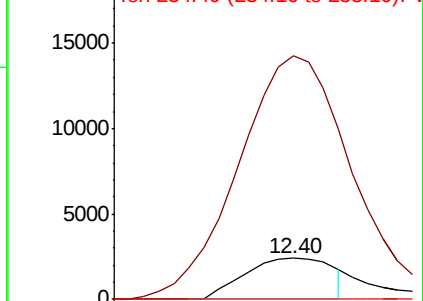
254 0.0 0.1 0.1#



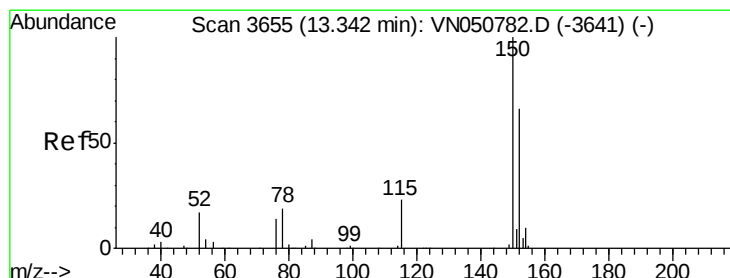
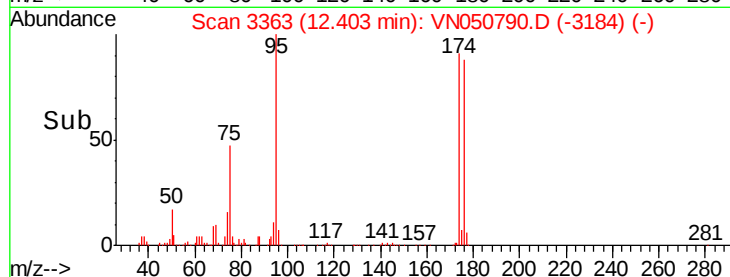
Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050790.D

Acq: 21 Aug 2018 19:19

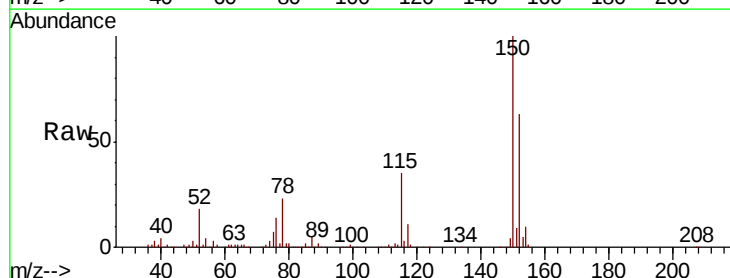
Tgt Ion:152 Resp: 267727

Ion Ratio Lower Upper

152 100

115 56.5 27.8 83.4

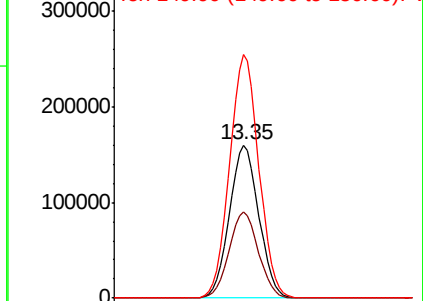
150 158.5 0.0 351.4



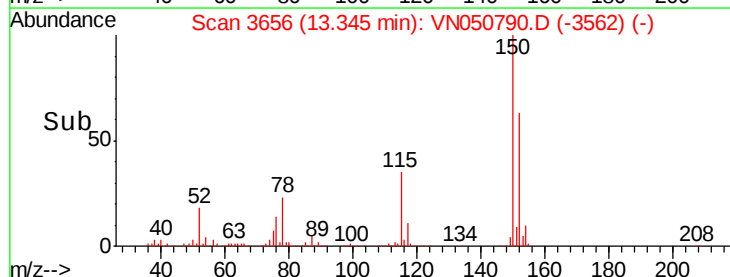
Abundance Ion 151.90 (151.60 to 152.60): V

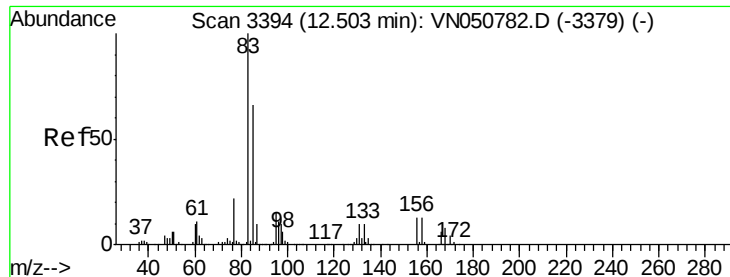
Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.50 min Scan# 3394

Delta R.T. 0.00 min

Lab File: VN050790.D

Acq: 21 Aug 2018 19:19

Instrument :

MSVOA_N

ClientSampled :

VN0821WBL02

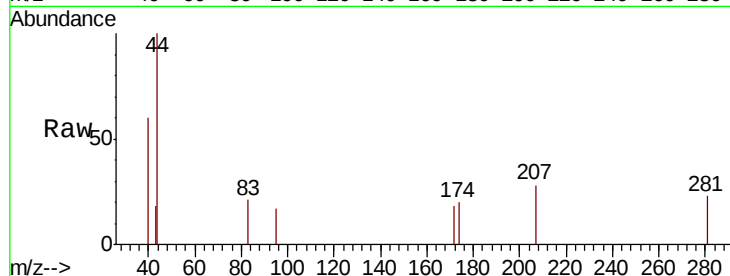
Tot Ion: 83 Resp: 104

Ion Ratio Lower Upper

83 100

131 0.0 5.3 15.9#

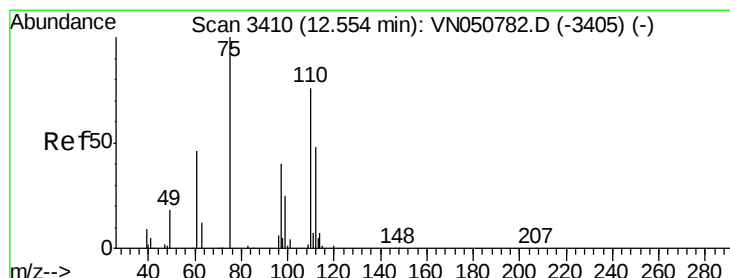
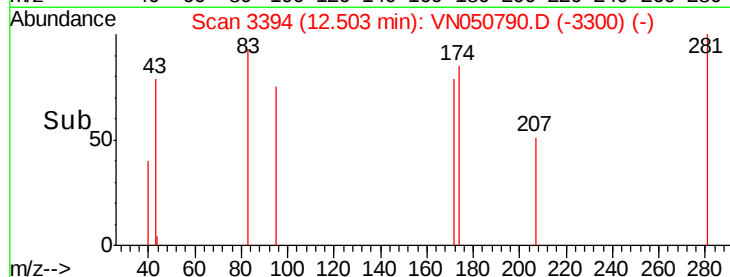
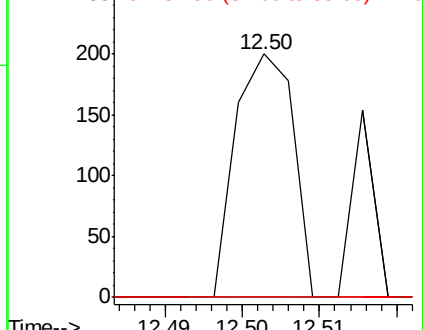
85 0.0 31.9 95.7#



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 36.033 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050790.D

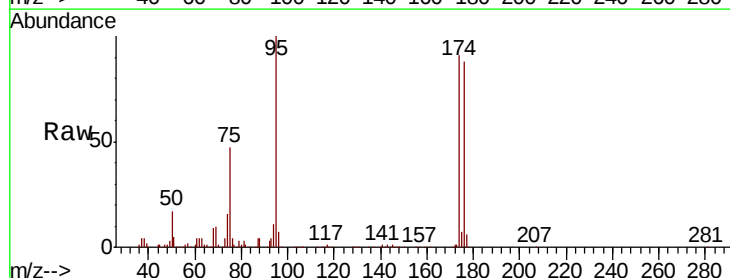
Acq: 21 Aug 2018 19:19

Tgt Ion: 75 Resp: 168966

Ion Ratio Lower Upper

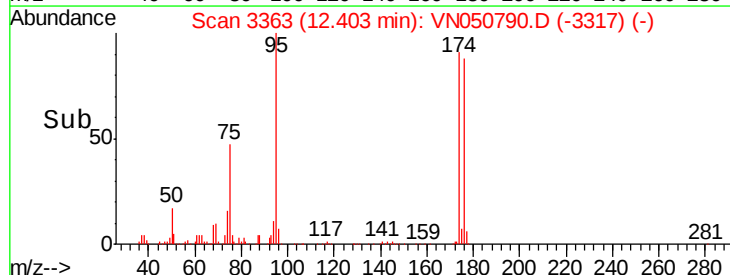
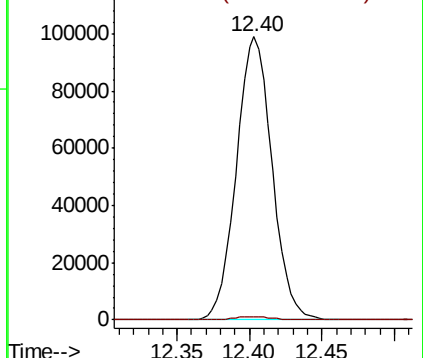
75 100

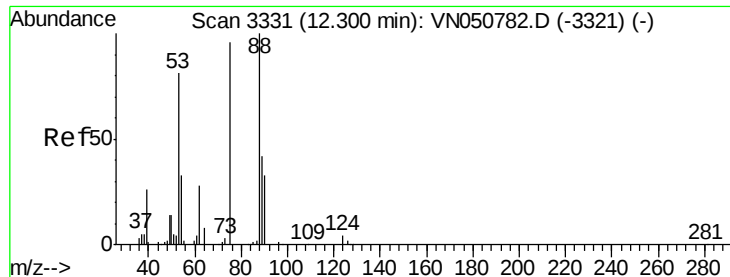
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 121.811 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050790.D

Acq: 21 Aug 2018 19:19

Instrument :

MSVOA_N

ClientSampled :

VN0821WBL02

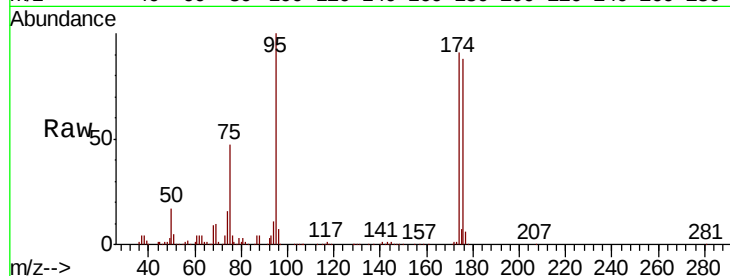
Tot Ion: 75 Resp: 168966

Ion Ratio Lower Upper

75 100

53 0.1 68.9 103.3#

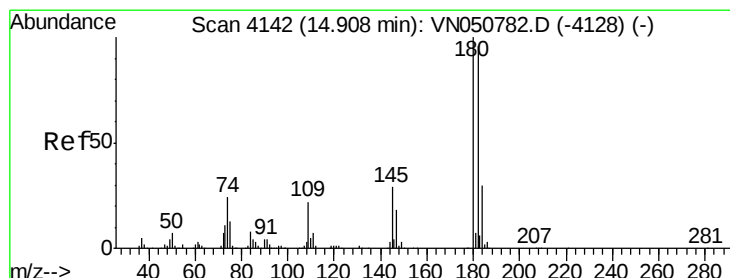
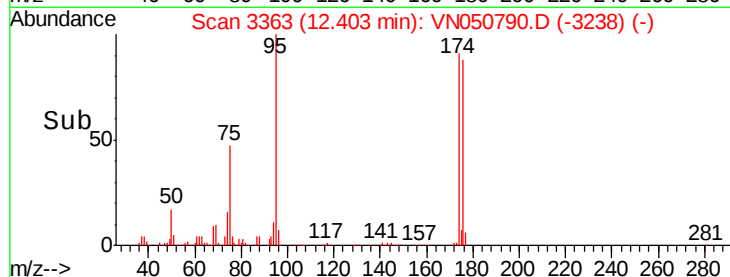
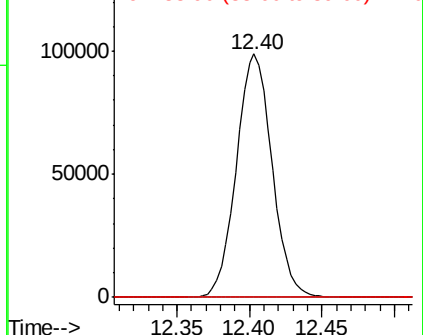
89 0.0 36.1 54.1#



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



#93

1,2,4-Trichlorobenzene

Concen: 4.267 ug/l

RT: 14.91 min Scan# 4142

Delta R.T. 0.00 min

Lab File: VN050790.D

Acq: 21 Aug 2018 19:19

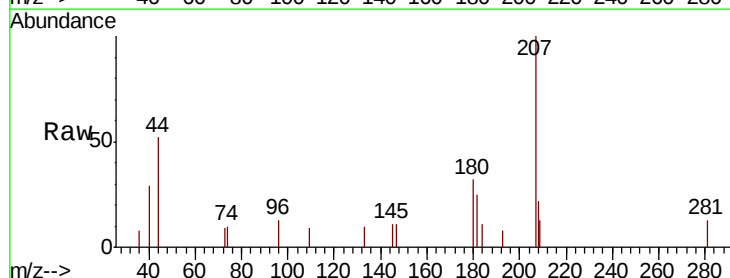
Tgt Ion: 180 Resp: 1032

Ion Ratio Lower Upper

180 100

182 74.4 48.2 144.6

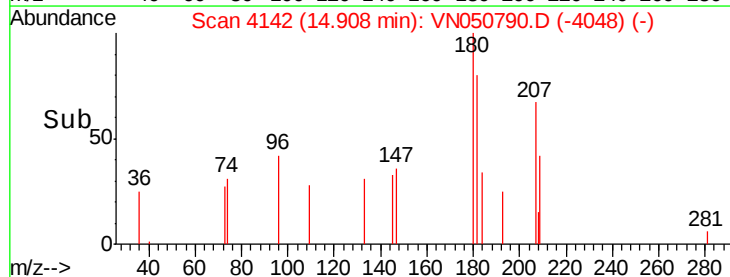
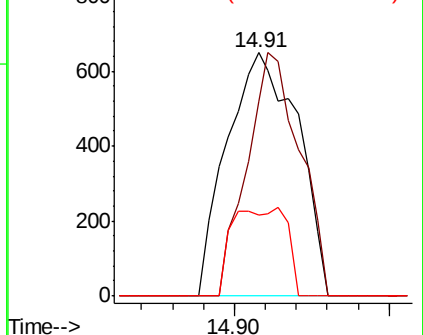
145 15.8 14.1 42.2

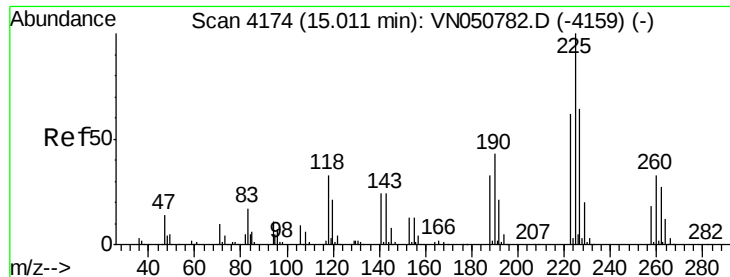


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.01 min Scan# 4174

Delta R.T. 0.00 min

Lab File: VN050790.D

Acq: 21 Aug 2018 19:19

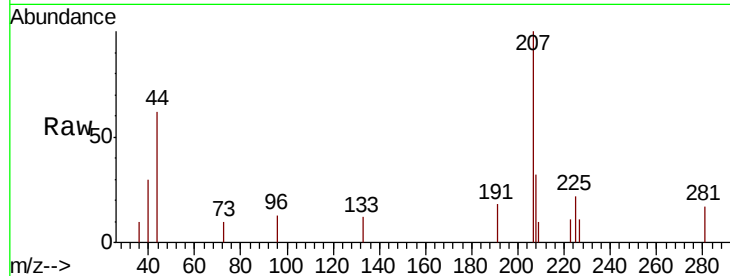
Instrument :

MSVOA_N

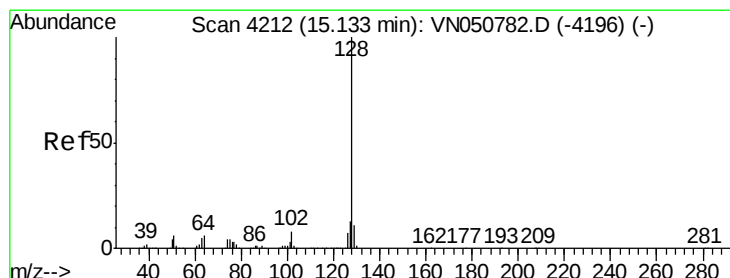
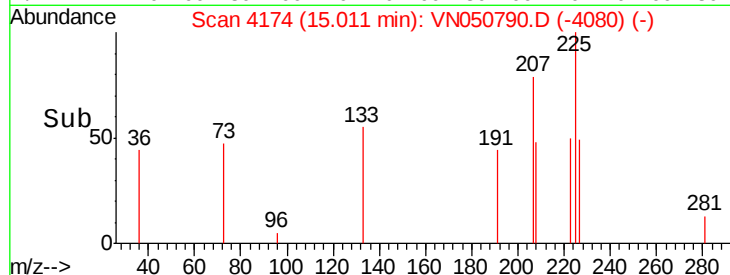
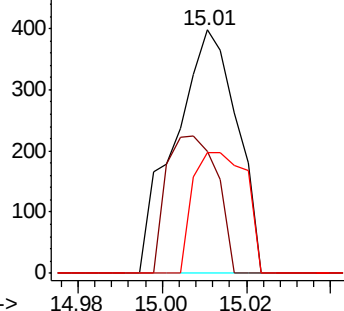
ClientSampled :

VN0821WBL02

Tot Ion:	225	Resp:	408
Ion	Ratio	Lower	Upper
225	100		
223	46.1	31.3	93.8
227	42.4	32.0	96.2



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 5.625 ug/l

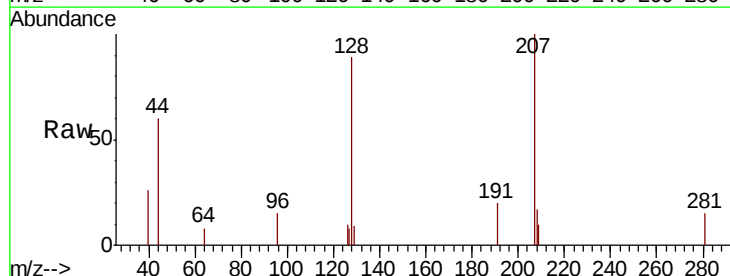
RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

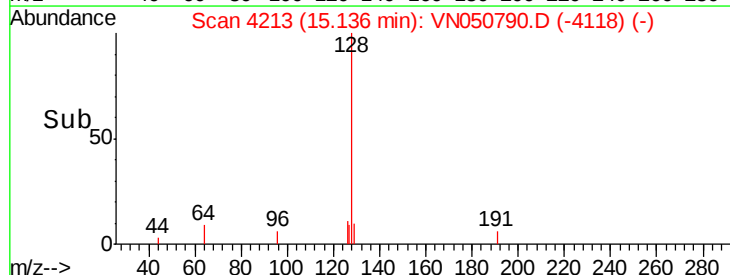
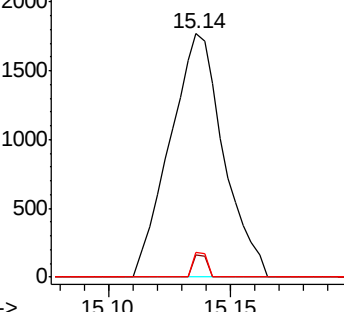
Lab File: VN050790.D

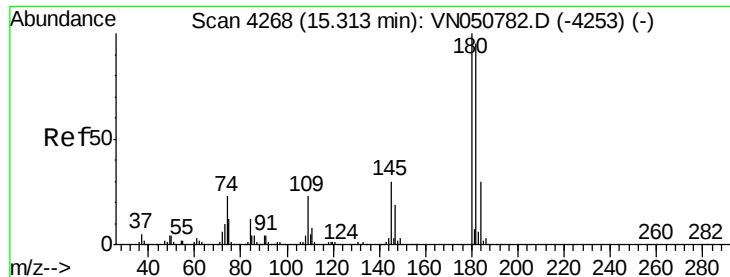
Acq: 21 Aug 2018 19:19

Tgt Ion:	128	Resp:	2694
Ion	Ratio	Lower	Upper
128	100		
127	2.2	10.5	15.7#
129	2.5	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





#96
 1,2,3-Trichlorobenzene
 Concen: 3.547 ug/l
 RT: 15.31 min Scan# 4268
 Delta R.T. 0.00 min
 Lab File: VN050790.D
 Acq: 21 Aug 2018 19:19

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0821WBL02

Tot Ion	Ratio	Lower	Upper
180	100		
182	90.0	48.0	144.2
145	23.2	15.2	45.6

