

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN080919\
 Data File : VN057144.D
 Acq On : 9 Aug 2019 14:13
 Operator : JC/SP
 Sample : K4281-03
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 STORAGE-BLANK-WATER-REF-4

Quant Time: Aug 10 02:12:04 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N080719W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 08 06:49:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	1408450	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.01	114	1972952	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.91	117	1620233	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.88	152	384952	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	657733	45.41	ug/l	0.00
Spiked Amount			Recovery	=	90.82%	
35) Dibromofluoromethane	6.99	113	594346	48.01	ug/l	0.00
Spiked Amount			Recovery	=	96.02%	
50) Toluene-d8	9.56	98	2286590	48.28	ug/l	0.00
Spiked Amount			Recovery	=	96.56%	
62) 4-Bromofluorobenzene	11.92	95	587406	38.49	ug/l	0.00
Spiked Amount			Recovery	=	76.98%	

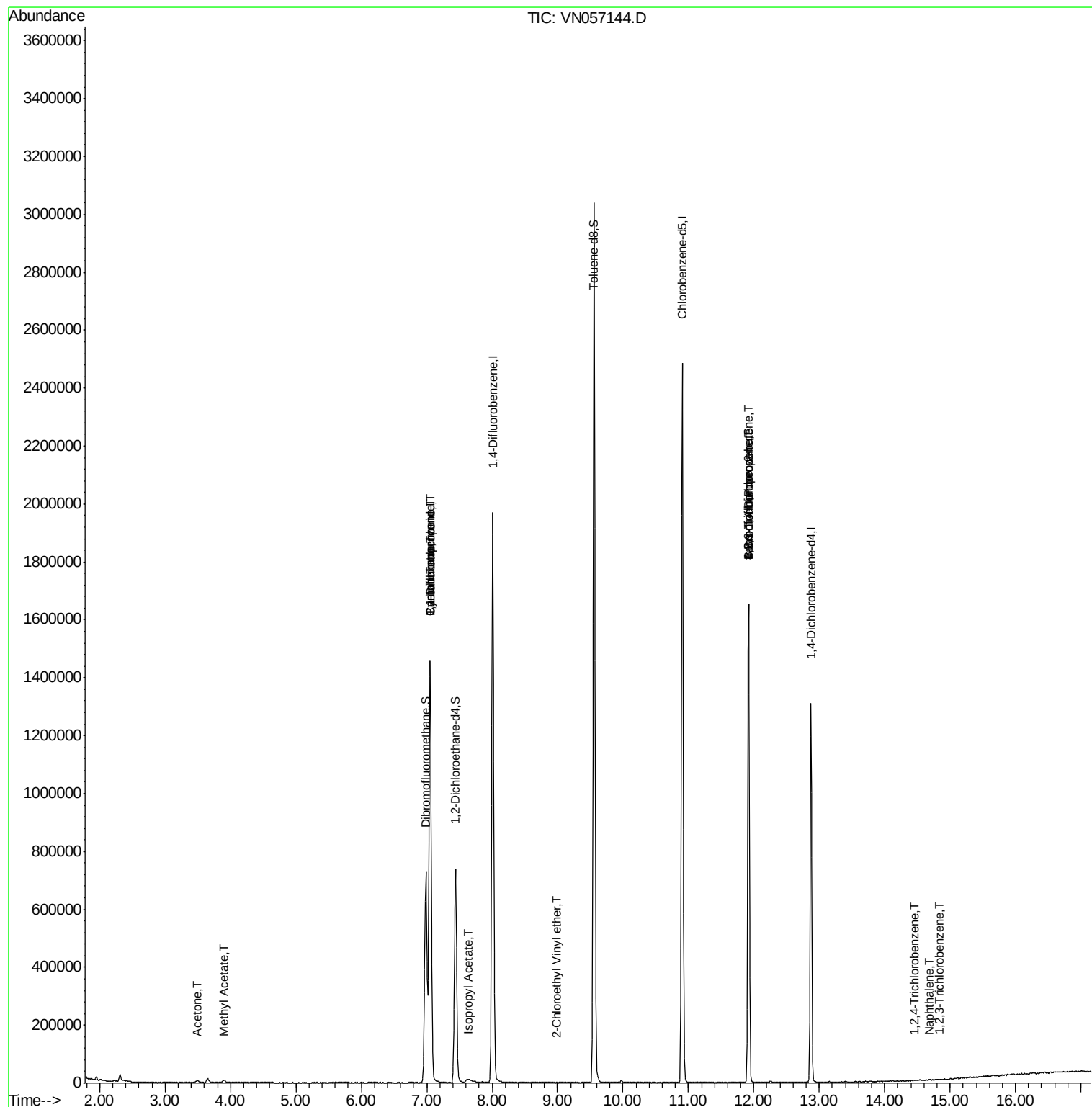
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.49	43	7243	1.656	ug/l	98
18) Methyl Acetate	3.89	43	16464	0.614	ug/l	98
31) Cyclohexane	7.05	56	20755	0.988	ug/l #	1
36) 1,1-Dichloropropene	7.05	75	83653	5.150	ug/l #	49
37) Ethyl Acetate	6.27	43	114	Below Cal	#	70
38) Carbon Tetrachloride	7.05	117	116509	6.882	ug/l #	16
43) Isopropyl Acetate	7.63	43	20614	0.902	ug/l #	51
58) 2-Chloroethyl Vinyl ether	9.00	63	30	13.119	ug/l #	47
71) Bromoform	11.91	173	1980	0.222	ug/l #	1
73) Isopropylbenzene	11.77	105	604	Below Cal		98
75) 1,1,2,2-Tetrachloroethane	11.91	83	110	Below Cal	#	1
76) 1,2,3-Trichloropropane	11.92	75	267999	34.766	ug/l #	100
79) 2-Chlorotoluene	12.20	91	560	Below Cal	#	49
81) trans-1,4-Dichloro-2-buten	11.92	75	267999	102.364	ug/l #	14
83) tert-Butylbenzene	12.52	119	302	Below Cal	#	28
93) 1,2,4-Trichlorobenzene	14.45	180	725	6.045	ug/l	85
94) Hexachlorobutadiene	14.55	225	246	Below Cal	#	35
95) Naphthalene	14.67	128	646	2.867	ug/l #	69
96) 1,2,3-Trichlorobenzene	14.84	180	665	5.823	ug/l #	83

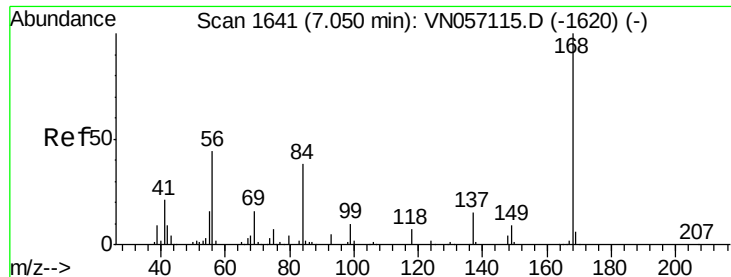
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 1642

Delta R.T. 0.00 min

Lab File: VN057144.D

Acq: 9 Aug 2019 14:13

Instrument :

MSVOA_N

ClientSampleId :

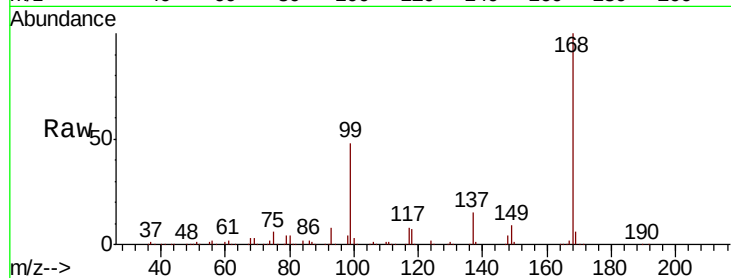
STORAGE-BLANK-WATER-REF-4

Tgt Ion:168 Resp: 1408450

Ion Ratio Lower Upper

168 100

99 48.0 38.6 57.8



Abundance Ion 167.90 (167.60 to 168.60): VN057115.D (-1620) (-)

Ion 98.90 (98.60 to 99.60): VN057115.D (-1620) (-)

7.05

600000

500000

400000

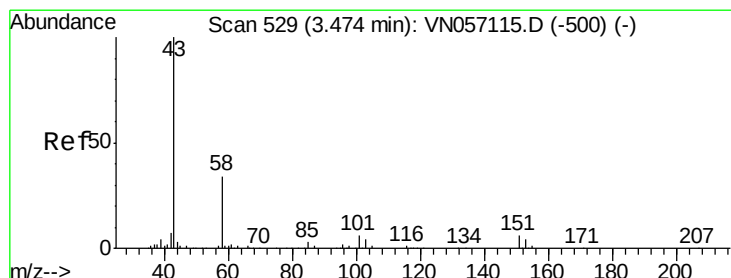
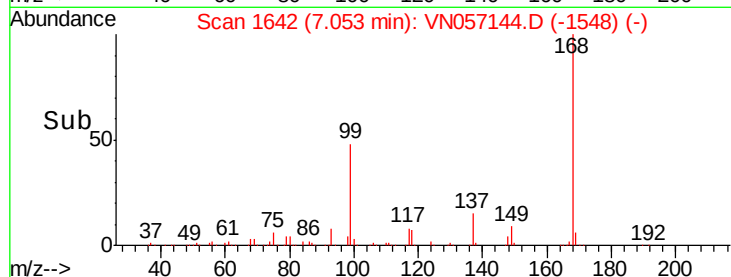
300000

200000

100000

0

Time--> 6.90 7.00 7.10 7.20



#16

Acetone

Concen: 1.656 ug/l

RT: 3.49 min Scan# 535

Delta R.T. 0.02 min

Lab File: VN057144.D

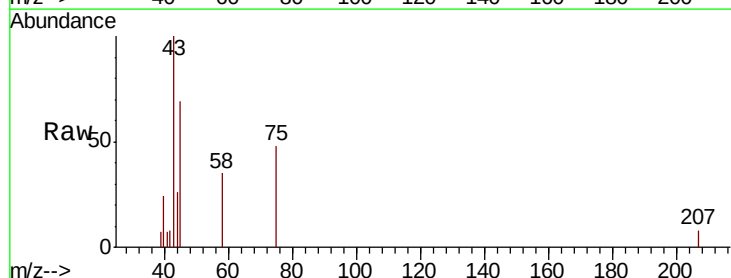
Acq: 9 Aug 2019 14:13

Tgt Ion: 43 Resp: 7243

Ion Ratio Lower Upper

43 100

58 35.4 27.4 41.2



Abundance Ion 43.00 (42.70 to 43.70): VN057115.D (-500) (-)

Ion 58.00 (57.70 to 58.70): VN057115.D (-500) (-)

3.49

3000

2500

2000

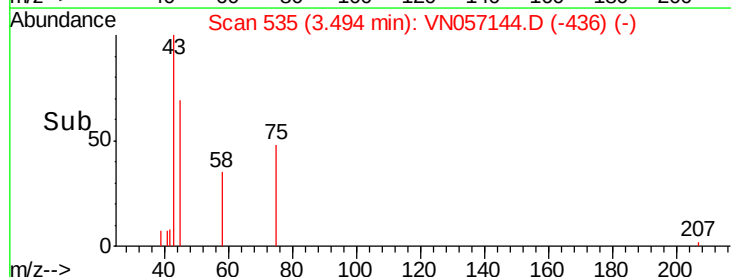
1500

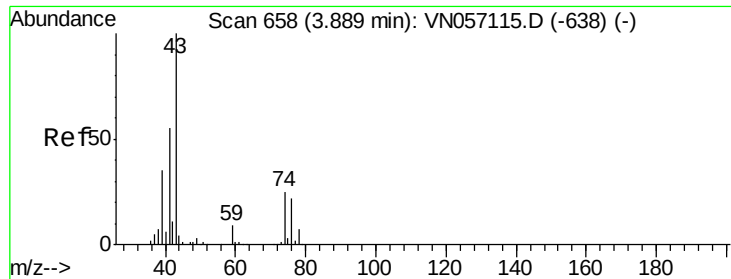
1000

500

0

Time--> 3.40 3.45 3.50 3.55

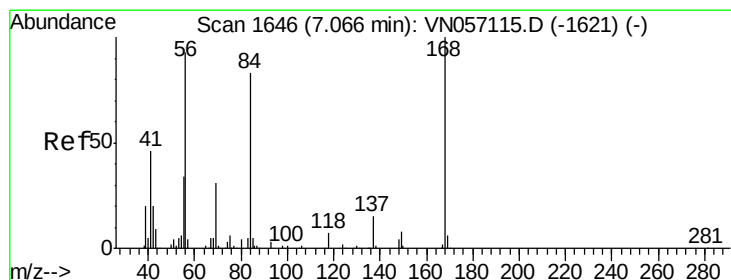
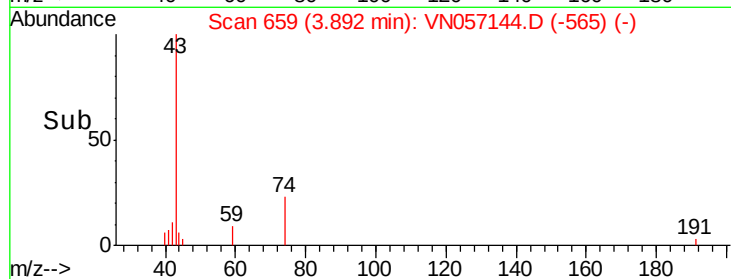
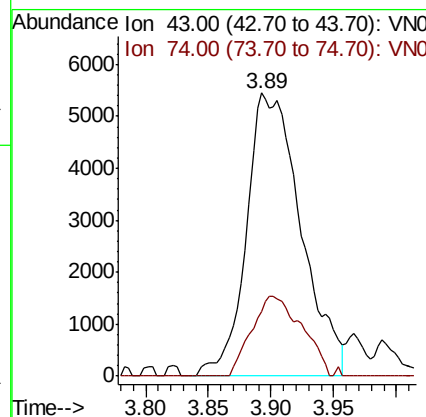
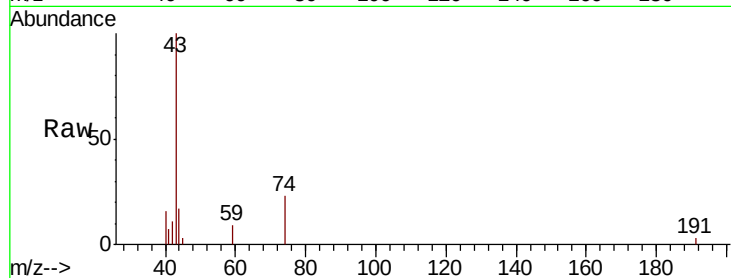




#18
Methyl Acetate
Concen: 0.614 ug/l
RT: 3.89 min Scan# 659
Delta R.T. 0.00 min
Lab File: VN057144.D
Acq: 9 Aug 2019 14:13

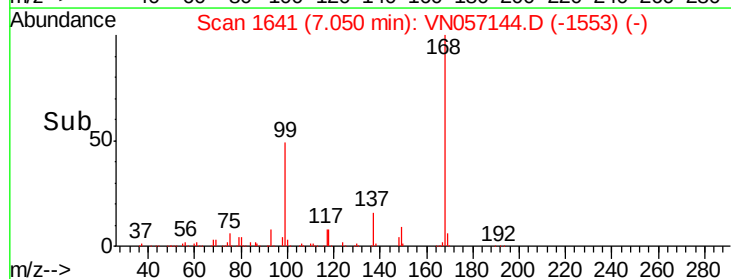
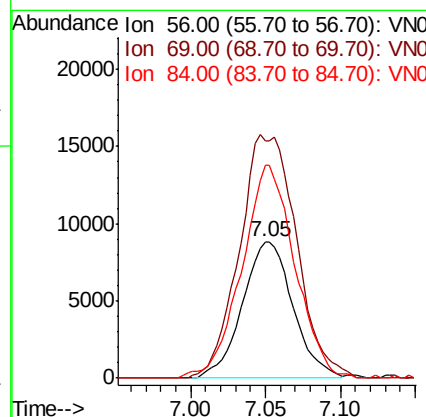
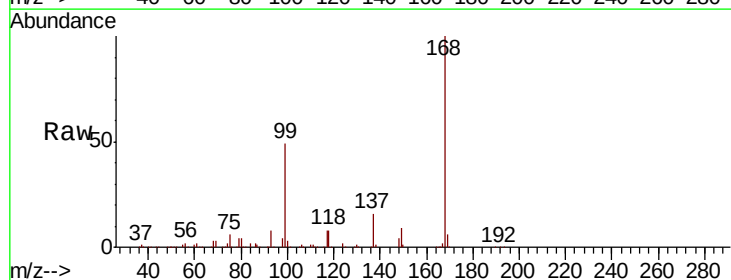
Instrument :
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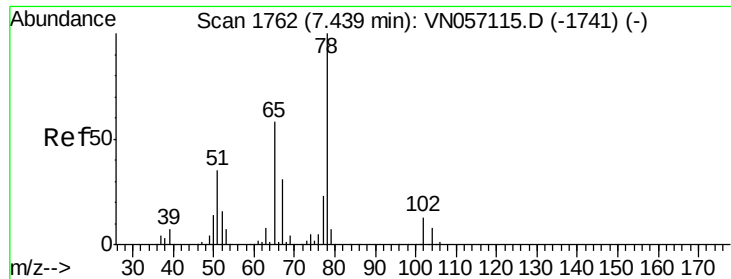
Tgt Ion: 43 Resp: 16464
Ion Ratio Lower Upper
43 100
74 26.1 20.2 30.4



#31
Cyclohexane
Concen: 0.988 ug/l
RT: 7.05 min Scan# 1641
Delta R.T. -0.02 min
Lab File: VN057144.D
Acq: 9 Aug 2019 14:13

Tgt Ion: 56 Resp: 20755
Ion Ratio Lower Upper
56 100
69 171.6 26.9 40.3#
84 153.1 71.9 107.9#

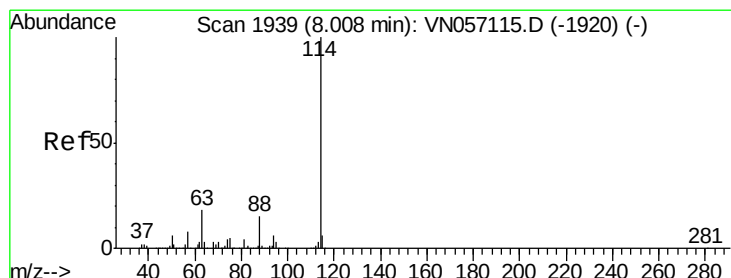
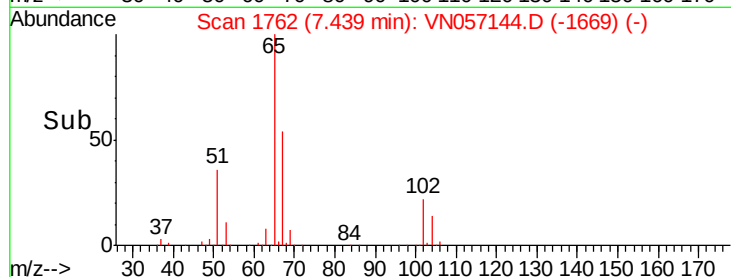
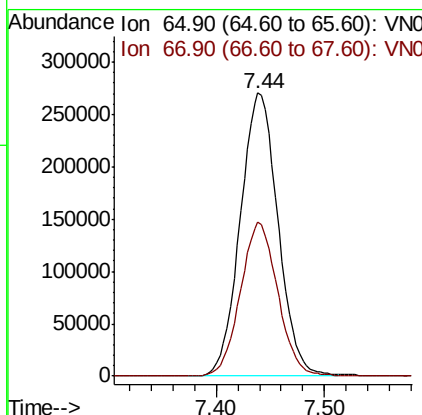
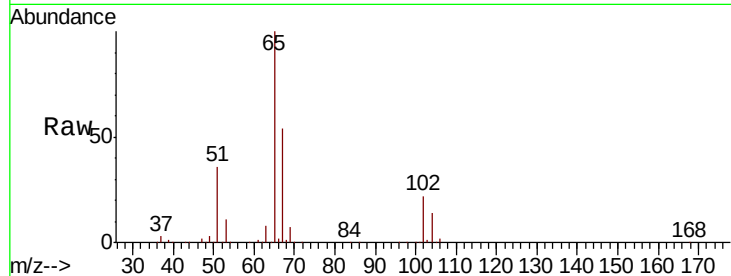




#33
 1,2-Dichloroethane-d4
 Concen: 45.408 ug/l
 RT: 7.44 min Scan# 1762
 Delta R.T. -0.00 min
 Lab File: VN057144.D
 Acq: 9 Aug 2019 14:13

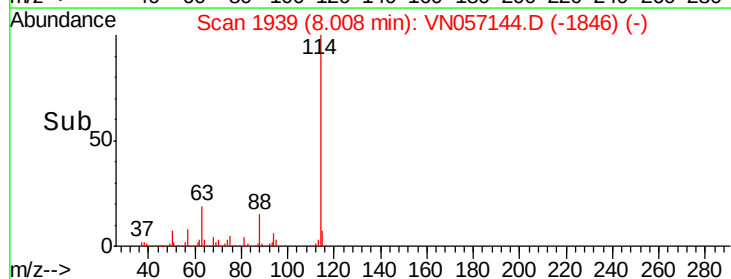
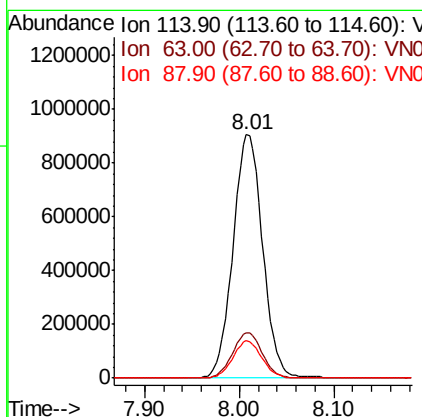
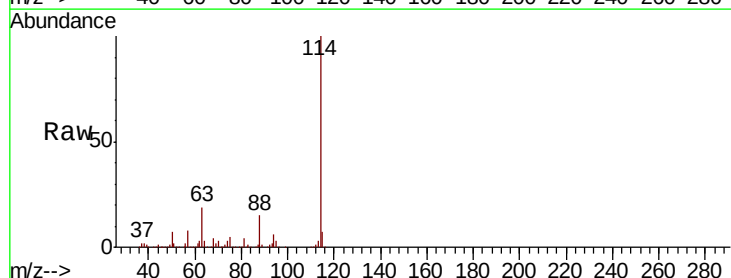
Instrument :
 MSVOA_N
 ClientSampleId :
 STORAGE-BLANK-WATER-REF-4

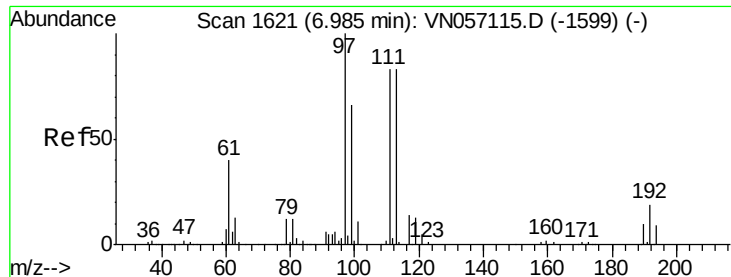
Tgt Ion: 65 Resp: 657733
 Ion Ratio Lower Upper
 65 100
 67 53.8 0.0 108.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.01 min Scan# 1939
 Delta R.T. -0.00 min
 Lab File: VN057144.D
 Acq: 9 Aug 2019 14:13

Tgt Ion: 114 Resp: 1972952
 Ion Ratio Lower Upper
 114 100
 63 18.7 0.0 36.2
 88 15.3 0.0 30.0

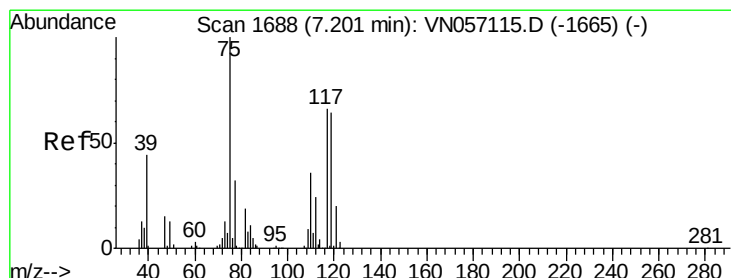
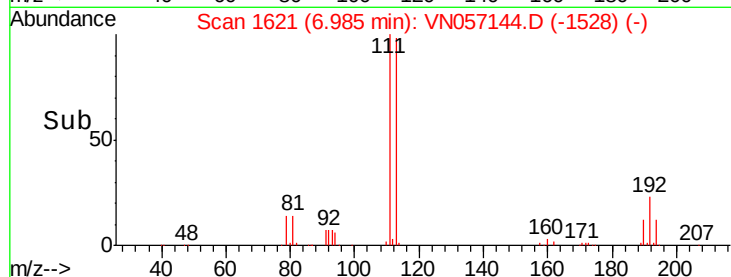
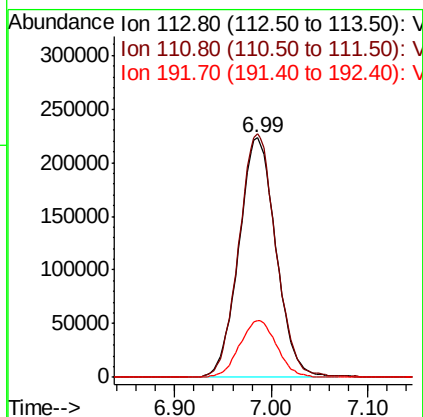
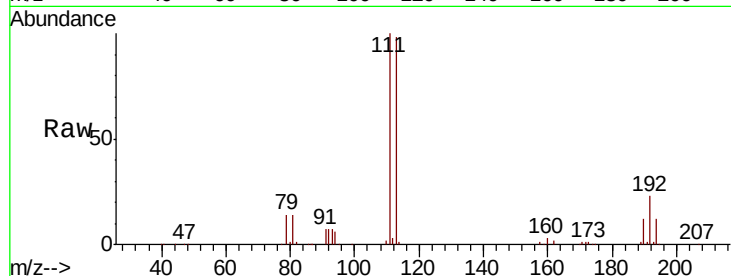




#35
 Dibromofluoromethane
 Concen: 48.006 ug/l
 RT: 6.99 min Scan# 1621
 Delta R.T. -0.00 min
 Lab File: VN057144.D
 Acq: 9 Aug 2019 14:13

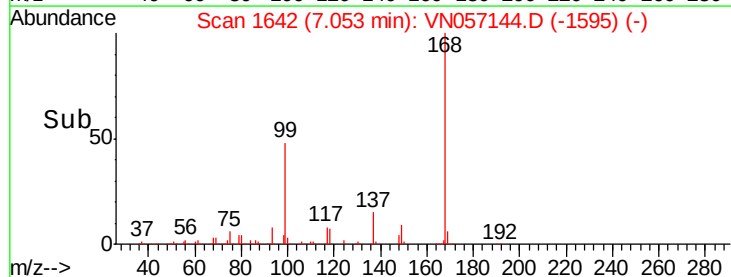
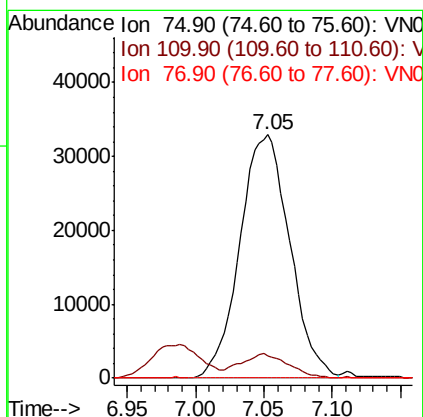
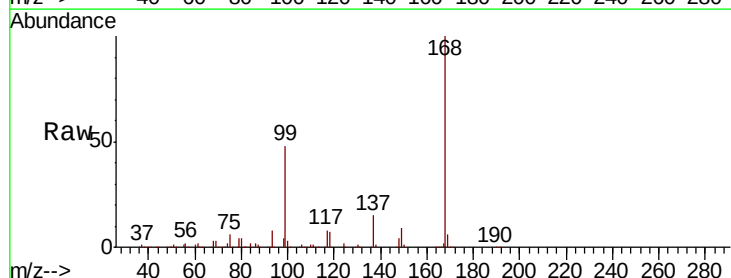
Instrument :
 MSVOA_N
 ClientSampleId :
 STORAGE-BLANK-WATER-REF-4

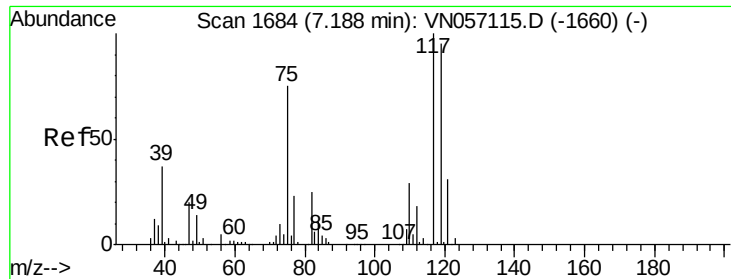
Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.9	81.3	121.9
192	23.9	19.0	28.4



#36
 1,1-Dichloropropene
 Concen: 5.150 ug/l
 RT: 7.05 min Scan# 1642
 Delta R.T. -0.15 min
 Lab File: VN057144.D
 Acq: 9 Aug 2019 14:13

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.6	18.7	56.1#
77	0.0	25.0	37.4#

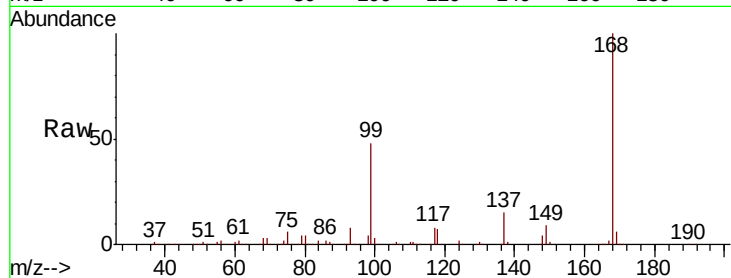




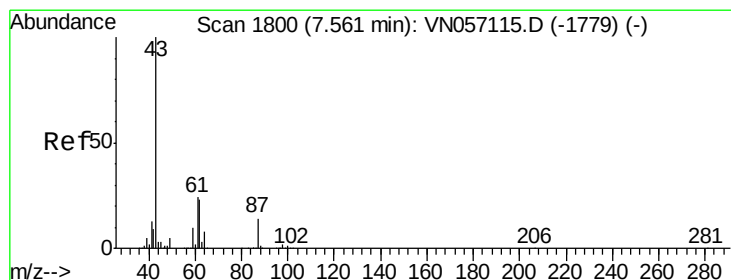
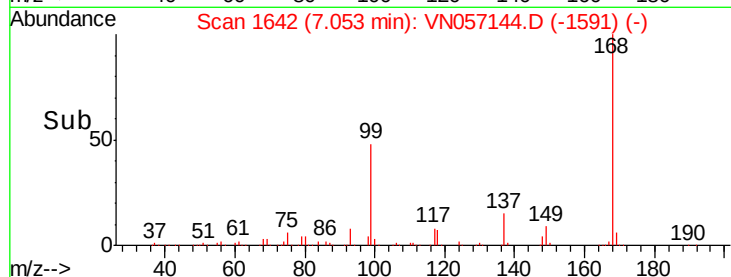
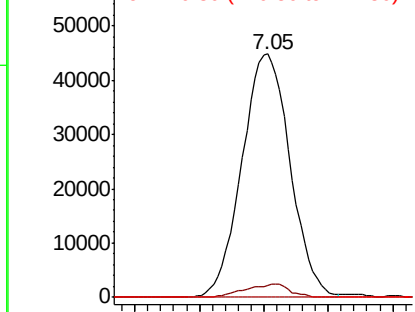
#38
Carbon Tetrachloride
Concen: 6.882 ug/l
RT: 7.05 min Scan# 1642
Delta R.T. -0.14 min
Lab File: VN057144.D
Acq: 9 Aug 2019 14:13

Instrument :
MSVOA_N
ClientSampleId :
STORAGE-BLANK-WATER-REF-4

Tgt Ion: 117 Resp: 116509
Ion Ratio Lower Upper
117 100
119 4.7 75.8 113.6#
121 0.0 24.4 36.6#

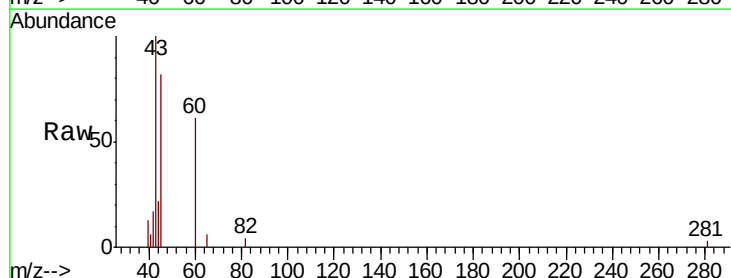


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

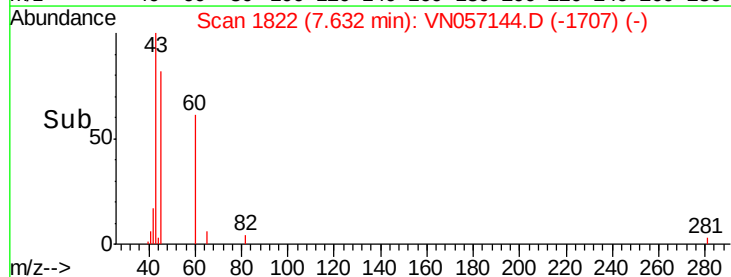
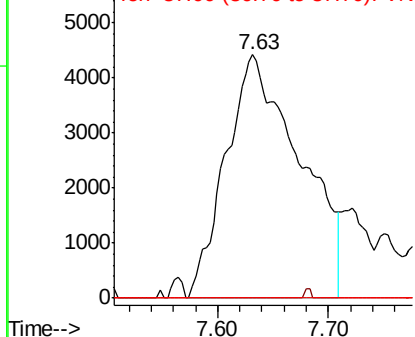


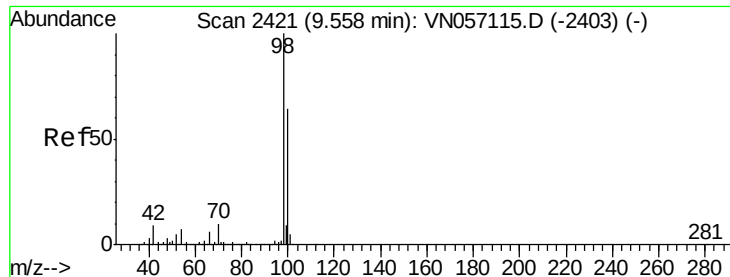
#43
Isopropyl Acetate
Concen: 0.902 ug/l
RT: 7.63 min Scan# 1822
Delta R.T. 0.07 min
Lab File: VN057144.D
Acq: 9 Aug 2019 14:13

Tgt Ion: 43 Resp: 20614
Ion Ratio Lower Upper
43 100
61 0.0 24.2 36.2#
87 0.0 11.8 17.8#



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





#50

Toluene-d8

Concen: 48.275 ug/l

RT: 9.56 min Scan# 2421

Delta R.T. -0.00 min

Lab File: VN057144.D

Acq: 9 Aug 2019 14:13

Instrument :

MSVOA_N

ClientSampleId :

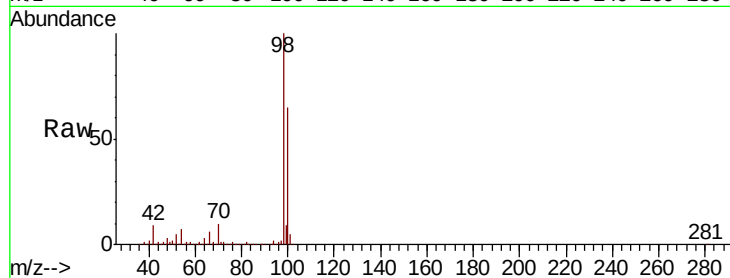
STORAGE-BLANK-WATER-REF-4

Tgt Ion: 98 Resp: 2286590

Ion Ratio Lower Upper

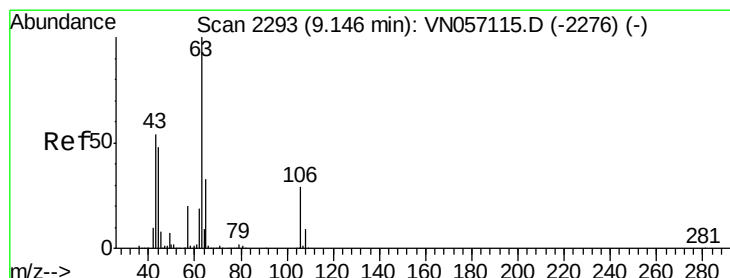
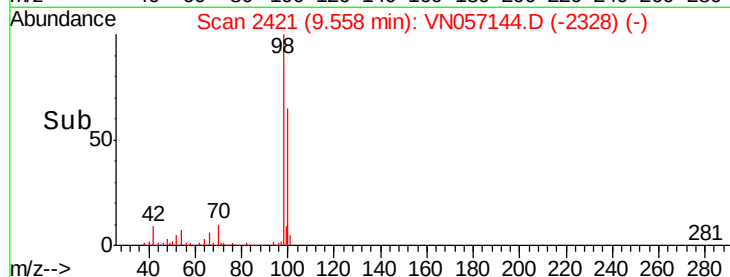
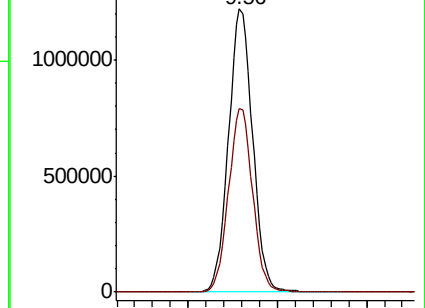
98 100

100 64.5 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#58

2-Chloroethyl Vinyl ether

Concen: 13.119 ug/l

RT: 9.00 min Scan# 2247

Delta R.T. -0.15 min

Lab File: VN057144.D

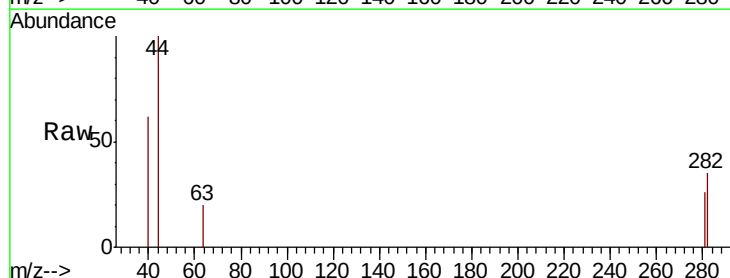
Acq: 9 Aug 2019 14:13

Tgt Ion: 63 Resp: 30

Ion Ratio Lower Upper

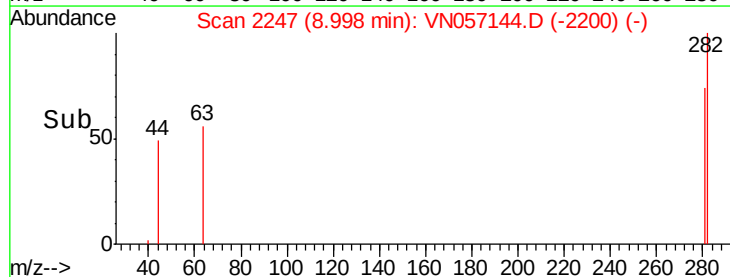
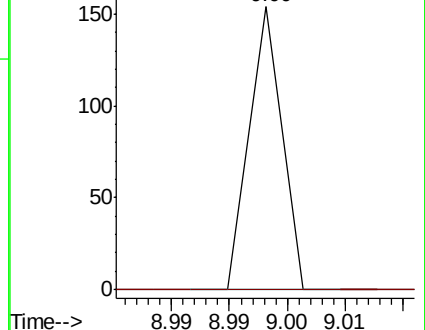
63 100

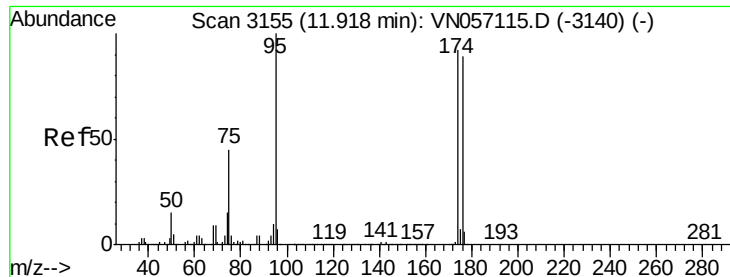
106 0.0 22.6 33.8#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V





#62

4-Bromofluorobenzene

Concen: 38.489 ug/l

RT: 11.92 min Scan# 3156

Delta R.T. 0.00 min

Lab File: VN057144.D

Acq: 9 Aug 2019 14:13

Instrument :

MSVOA_N

ClientSampleId :

STORAGE-BLANK-WATER-REF-4

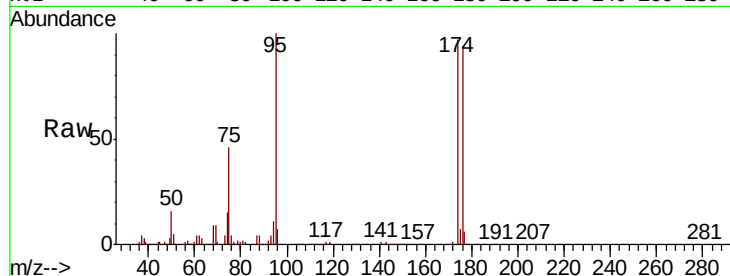
Tgt Ion: 95 Resp: 587406

Ion Ratio Lower Upper

95 100

174 94.1 0.0 185.0

176 92.5 0.0 181.2

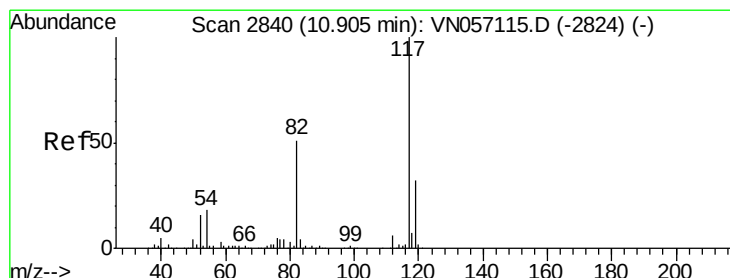
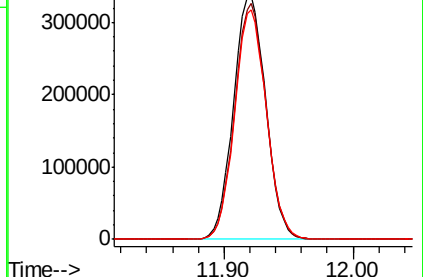
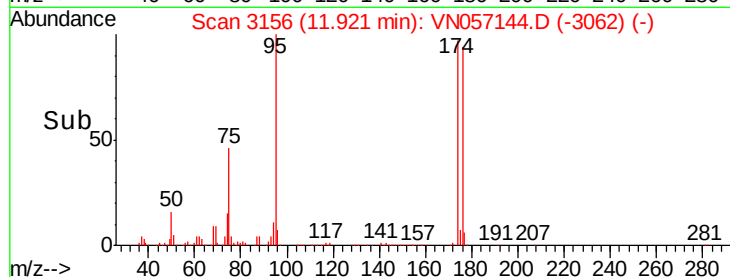


Abundance Ion 94.90 (94.60 to 95.60): VN057115.D (-3140) (-)

Ion 173.80 (173.50 to 174.50): VN057115.D (-3140) (-)

Ion 175.80 (175.50 to 176.50): VN057115.D (-3140) (-)

11.92



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.91 min Scan# 2841

Delta R.T. 0.00 min

Lab File: VN057144.D

Acq: 9 Aug 2019 14:13

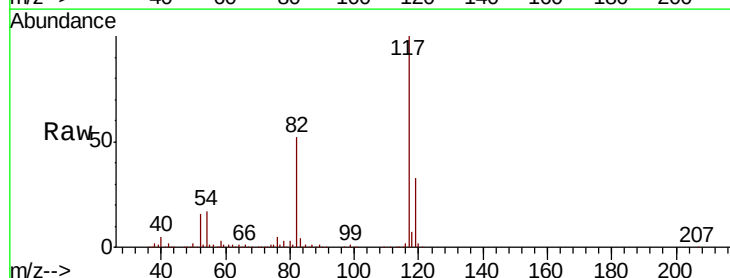
Tgt Ion: 117 Resp: 1620233

Ion Ratio Lower Upper

117 100

82 51.6 40.8 61.2

119 32.7 25.7 38.5

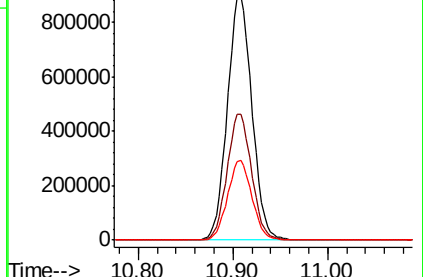
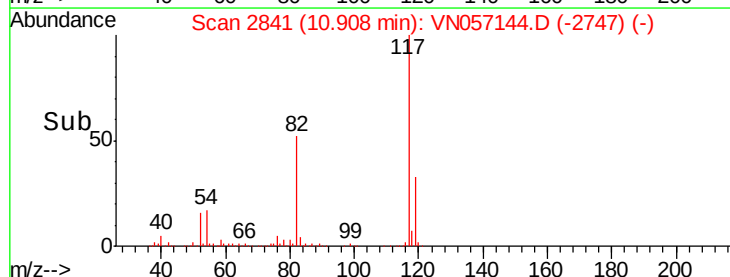


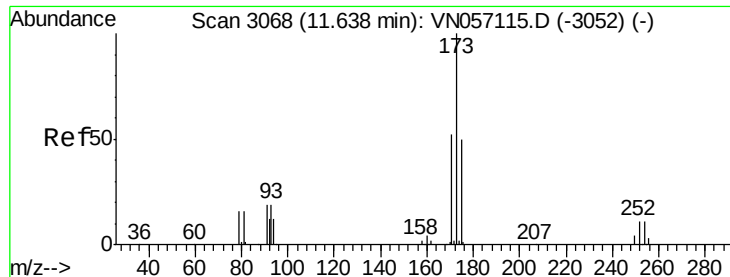
Abundance Ion 116.90 (116.60 to 117.60): VN057115.D (-2824) (-)

Ion 82.00 (81.70 to 82.70): VN057115.D (-2824) (-)

Ion 118.90 (118.60 to 119.60): VN057115.D (-2824) (-)

10.91





#71

Bromoform

Concen: 0.222 ug/l

RT: 11.91 min Scan# 3154

Delta R.T. 0.28 min

Lab File: VN057144.D

Acq: 9 Aug 2019 14:13

Instrument :

MSVOA_N

ClientSampleId :

STORAGE-BLANK-WATER-REF-4

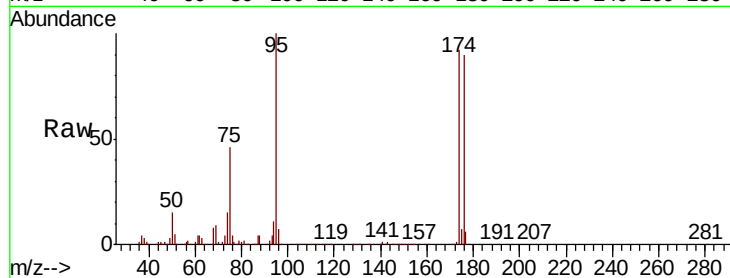
Tgt Ion:173 Resp: 1980

Ion Ratio Lower Upper

173 100

175 1389.1 24.6 73.8#

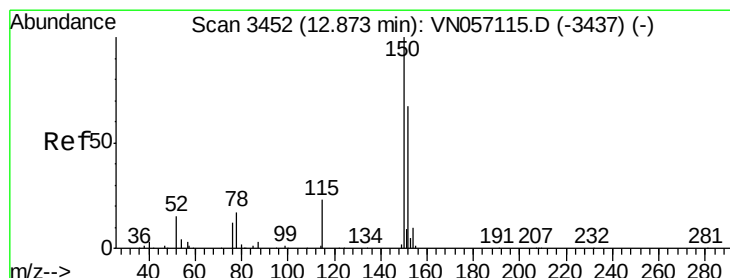
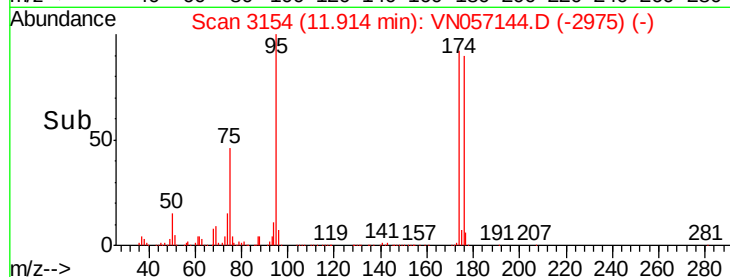
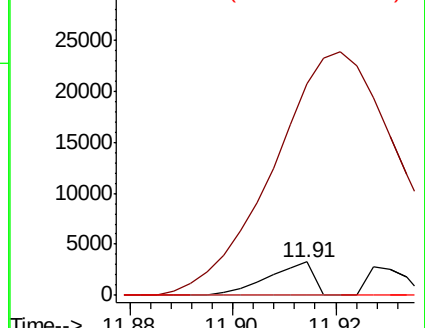
254 0.0 0.1 0.1#



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: 50.000 ug/l

RT: 12.88 min Scan# 3453

Delta R.T. 0.00 min

Lab File: VN057144.D

Acq: 9 Aug 2019 14:13

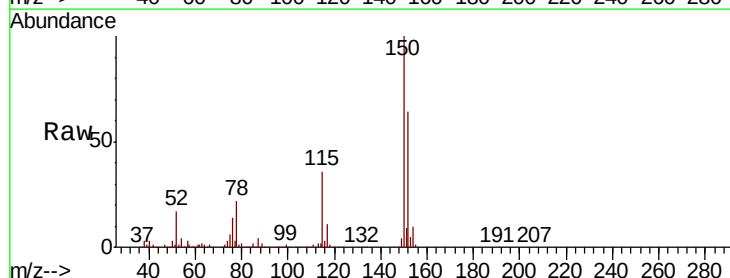
Tgt Ion:152 Resp: 384952

Ion Ratio Lower Upper

152 100

115 56.3 27.5 82.5

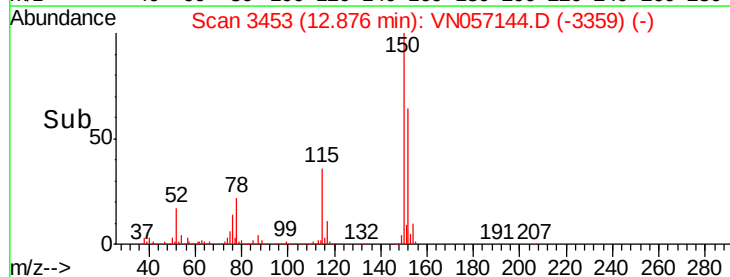
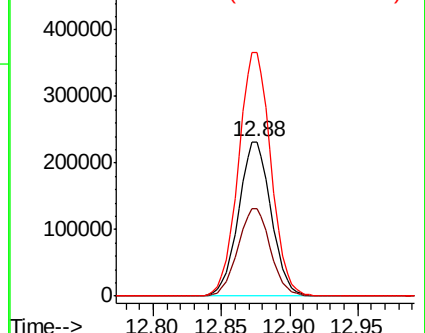
150 156.9 0.0 341.6

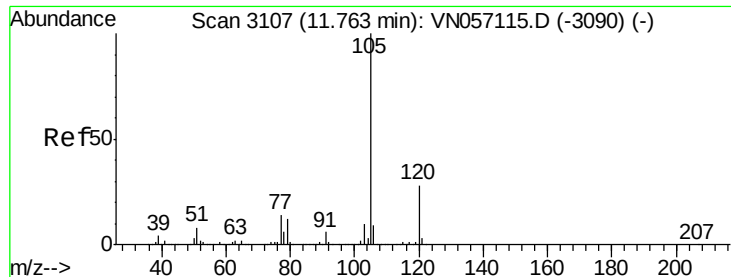


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: Below Cal

RT: 11.77 min Scan# 3109

Delta R.T. 0.01 min

Lab File: VN057144.D

Acq: 9 Aug 2019 14:13

Instrument :

MSVOA_N

ClientSampleId :

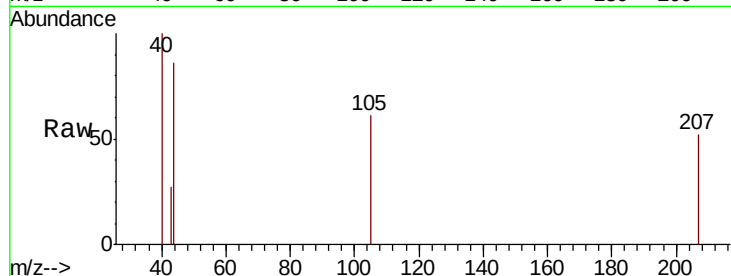
STORAGE-BLANK-WATER-REF-4

Tgt Ion: 105 Resp: 604

Ion Ratio Lower Upper

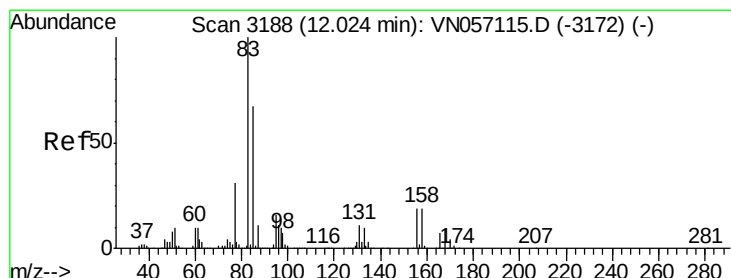
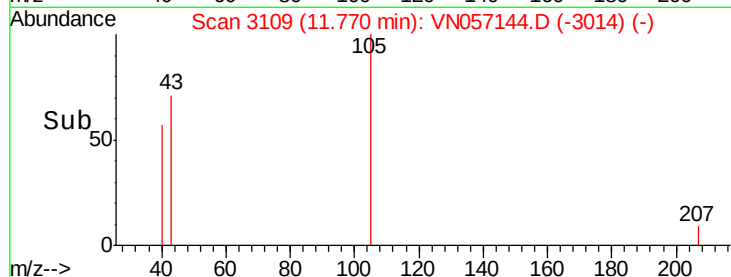
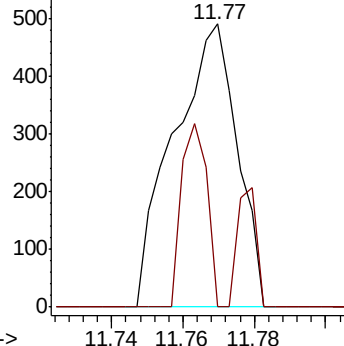
105 100

120 26.2 13.7 41.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 11.91 min Scan# 3154

Delta R.T. -0.11 min

Lab File: VN057144.D

Acq: 9 Aug 2019 14:13

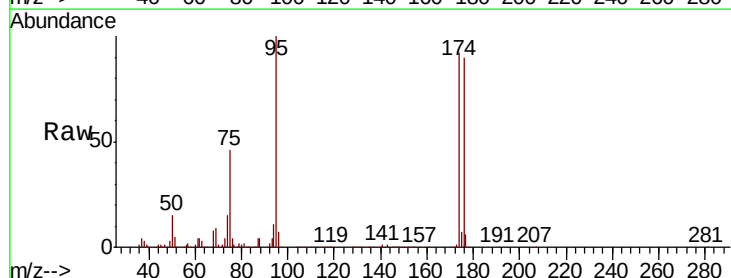
Tgt Ion: 83 Resp: 110

Ion Ratio Lower Upper

83 100

131 758.2 5.5 16.4#

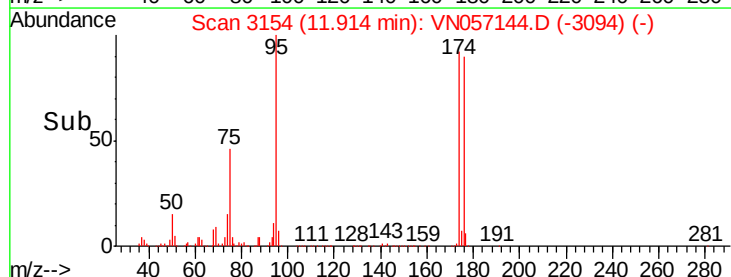
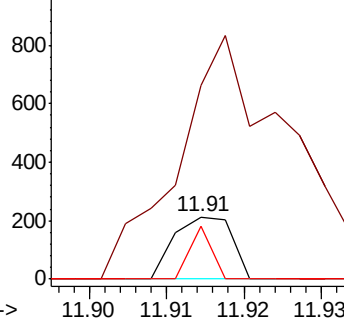
85 31.8 32.4 97.0#

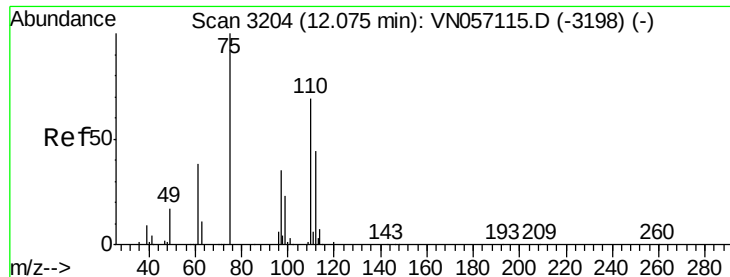


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 34.766 ug/l

RT: 11.92 min Scan# 3155

Delta R.T. -0.16 min

Lab File: VN057144.D

Acq: 9 Aug 2019 14:13

Instrument :

MSVOA_N

ClientSampleId :

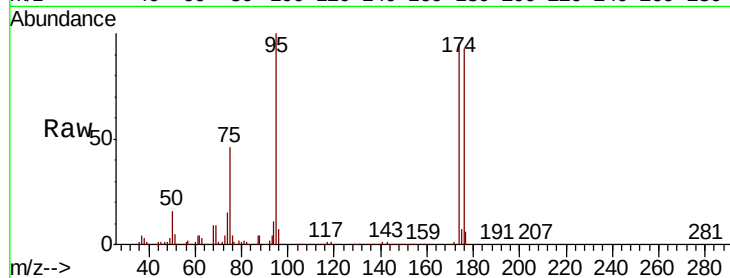
STORAGE-BLANK-WATER-REF-4

Tgt Ion: 75 Resp: 267999

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

150000

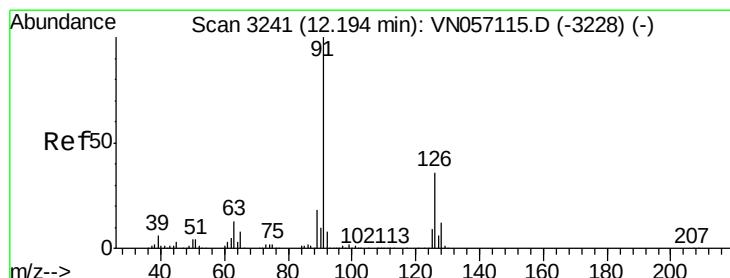
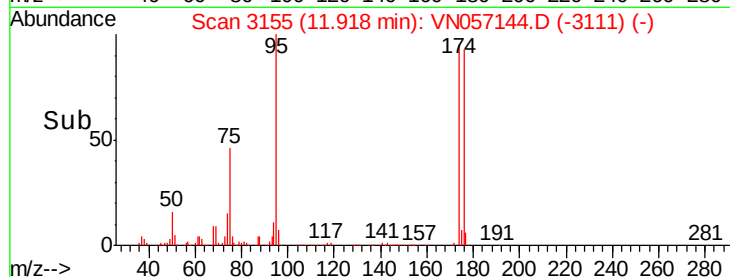
100000

50000

0

11.85 11.90 11.95 12.00

Time-->



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.20 min Scan# 3243

Delta R.T. 0.01 min

Lab File: VN057144.D

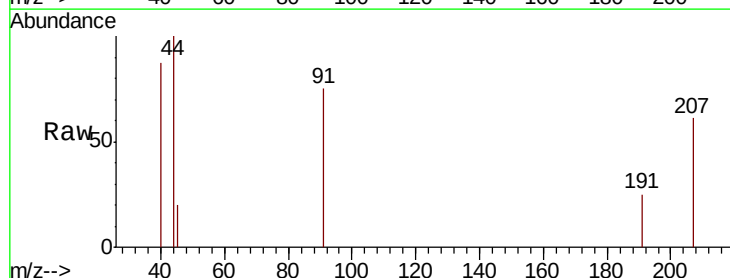
Acq: 9 Aug 2019 14:13

Tgt Ion: 91 Resp: 560

Ion Ratio Lower Upper

91 100

126 5.9 18.1 54.3#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

600

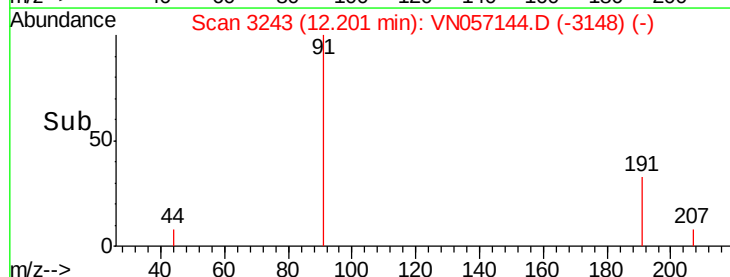
400

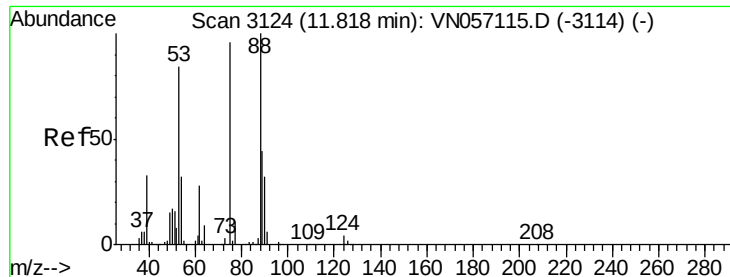
200

0

12.18 12.20 12.22

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 102.364 ug/l

RT: 11.92 min Scan# 3155

Delta R.T. 0.10 min

Lab File: VN057144.D

Acq: 9 Aug 2019 14:13

Instrument :

MSVOA_N

ClientSampleId :

STORAGE-BLANK-WATER-REF-4

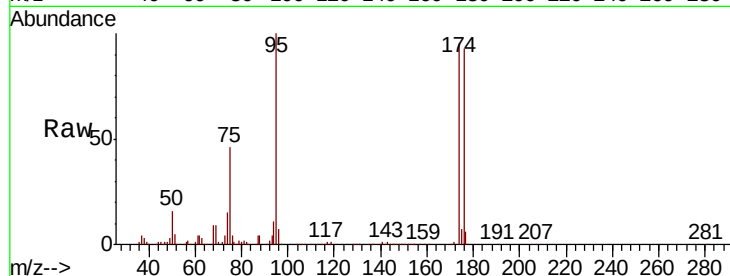
Tgt Ion: 75 Resp: 267999

Ion Ratio Lower Upper

75 100

53 0.0 70.6 106.0#

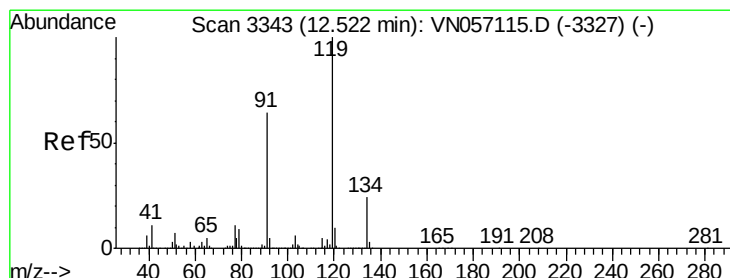
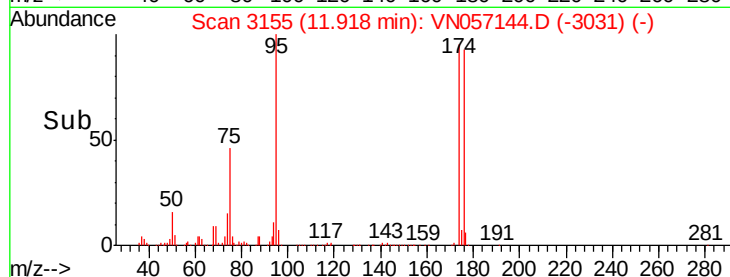
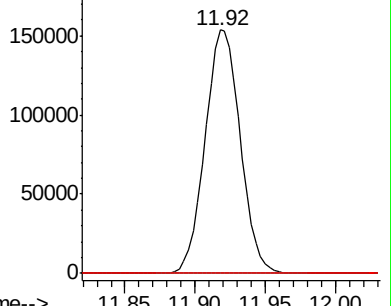
89 0.0 36.4 54.6#



Abundance Ion 74.90 (74.60 to 75.60): VN057115.D (-3114) (-)

Ion 53.00 (52.70 to 53.70): VN057115.D (-3114) (-)

Ion 88.90 (88.60 to 89.60): VN057115.D (-3114) (-)



#83

tert-Butylbenzene

Concen: Below Cal

RT: 12.52 min Scan# 3341

Delta R.T. -0.01 min

Lab File: VN057144.D

Acq: 9 Aug 2019 14:13

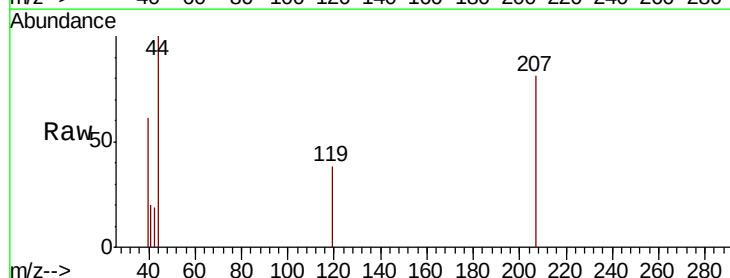
Tgt Ion: 119 Resp: 302

Ion Ratio Lower Upper

119 100

91 0.0 31.4 94.2#

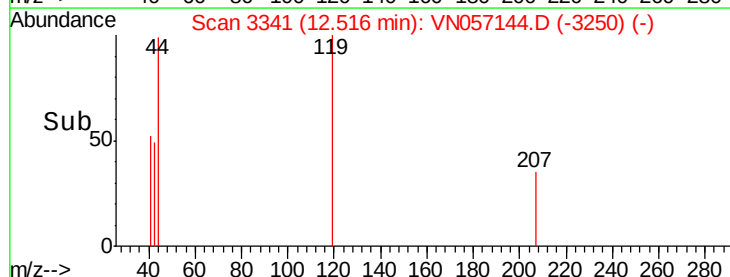
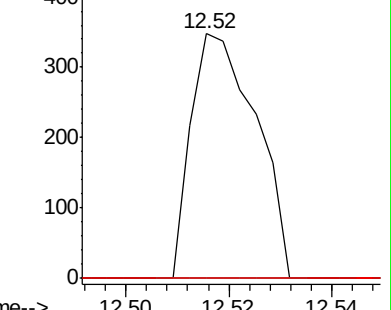
134 0.0 13.2 39.6#

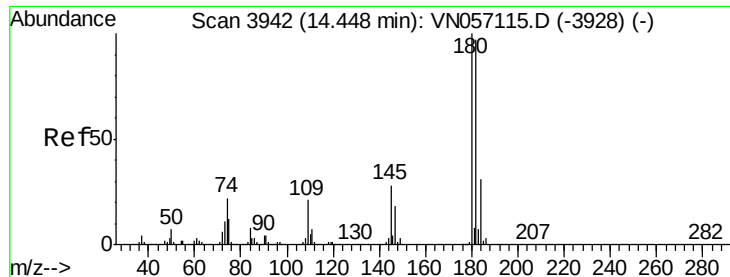


Abundance Ion 119.00 (118.70 to 119.70): VN057115.D (-3327) (-)

Ion 91.00 (90.70 to 91.70): VN057115.D (-3327) (-)

Ion 134.00 (133.70 to 134.70): VN057115.D (-3327) (-)

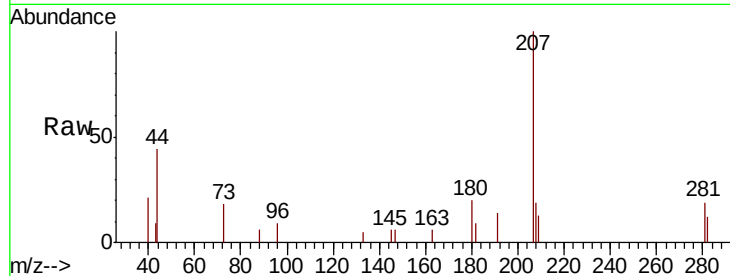




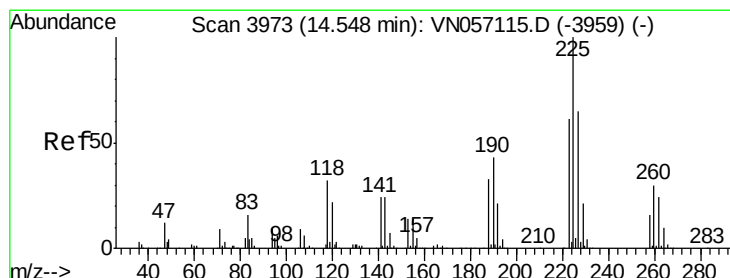
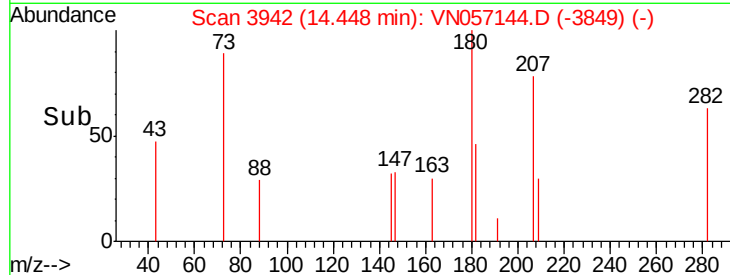
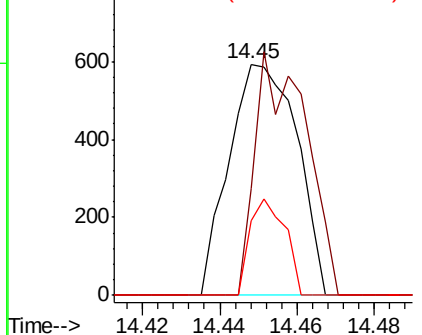
#93
 1,2,4-Trichlorobenzene
 Concen: 6.045 ug/l
 RT: 14.45 min Scan# 3942
 Delta R.T. 0.00 min
 Lab File: VN057144.D
 Acq: 9 Aug 2019 14:13

Instrument :
 MSVOA_N
 ClientSampleId :
 STORAGE-BLANK-WATER-REF-4

Tgt Ion:180 Resp: 725
 Ion Ratio Lower Upper
 180 100
 182 79.4 47.5 142.6
 145 21.4 14.1 42.2

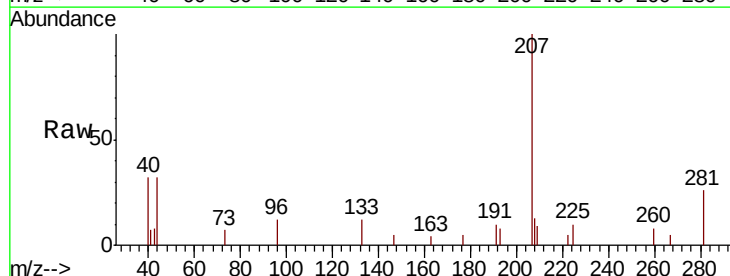


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

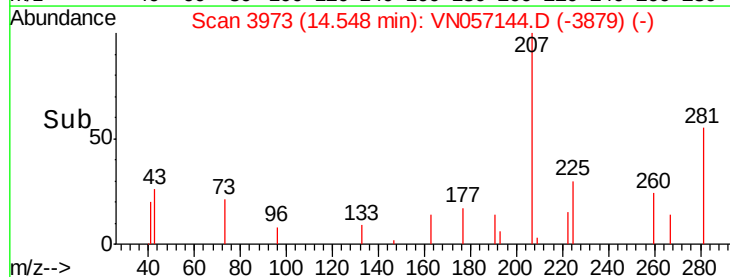
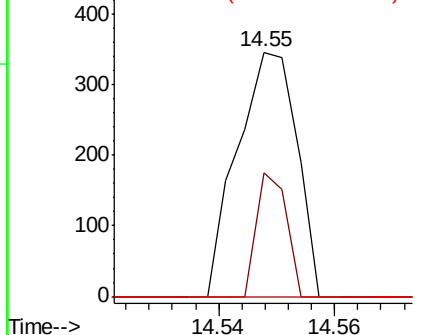


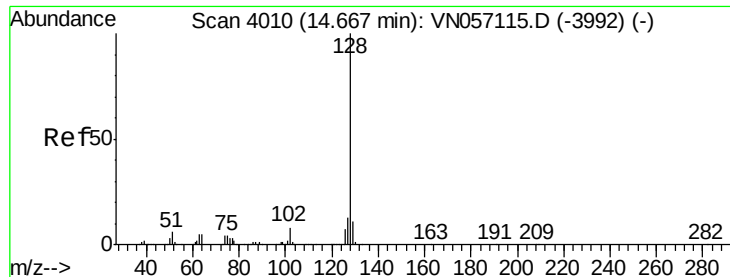
#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 14.55 min Scan# 3973
 Delta R.T. 0.00 min
 Lab File: VN057144.D
 Acq: 9 Aug 2019 14:13

Tgt Ion:225 Resp: 246
 Ion Ratio Lower Upper
 225 100
 223 25.6 30.9 92.8#
 227 0.0 32.4 97.0#



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

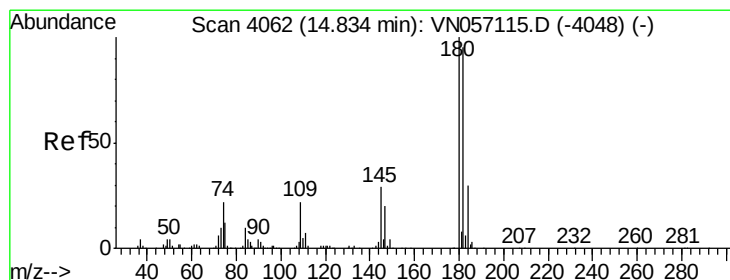
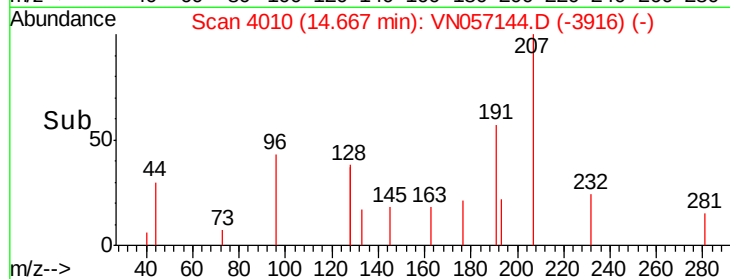
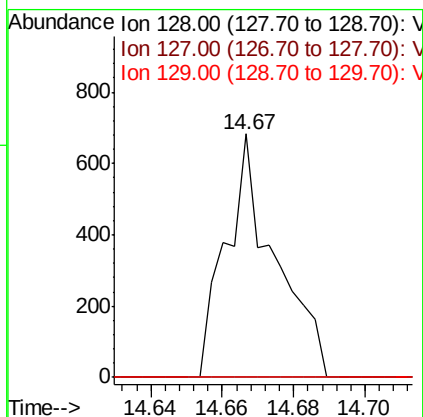
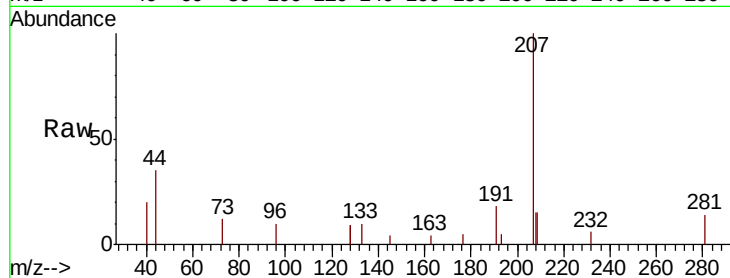




#95
Naphthalene
Concen: 2.867 ug/l
RT: 14.67 min Scan# 4010
Delta R.T. 0.00 min
Lab File: VN057144.D
Acq: 9 Aug 2019 14:13

Instrument :
MSVOA_N
ClientSampleId :
STORAGE-BLANK-WATER-REF-4

Tgt Ion:128 Resp: 646
Ion Ratio Lower Upper
128 100
127 0.0 10.3 15.5#
129 0.0 8.8 13.2#



#96
1,2,3-Trichlorobenzene
Concen: 5.823 ug/l
RT: 14.84 min Scan# 4064
Delta R.T. 0.01 min
Lab File: VN057144.D
Acq: 9 Aug 2019 14:13

Tgt Ion:180 Resp: 665
Ion Ratio Lower Upper
180 100
182 107.2 48.3 144.8
145 9.6 14.9 44.5#

