

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111119\
 Data File : VN059153.D
 Acq On : 11 Nov 2019 12:19
 Operator : JC/SP
 Sample : K5769-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-317C-SRI4

Quant Time: Nov 12 00:40:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110619W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 07 04:00:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	474488	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	746186	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	632908	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	222575	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	312106	53.51	ug/l	0.00
Spiked Amount			Recovery	=	107.02%	
35) Dibromofluoromethane	7.57	113	234842	52.71	ug/l	0.00
Spiked Amount			Recovery	=	105.42%	
50) Toluene-d8	10.08	98	909137	51.80	ug/l	0.00
Spiked Amount			Recovery	=	103.60%	
62) 4-Bromofluorobenzene	12.40	95	287535	45.44	ug/l	0.00
Spiked Amount			Recovery	=	90.88%	

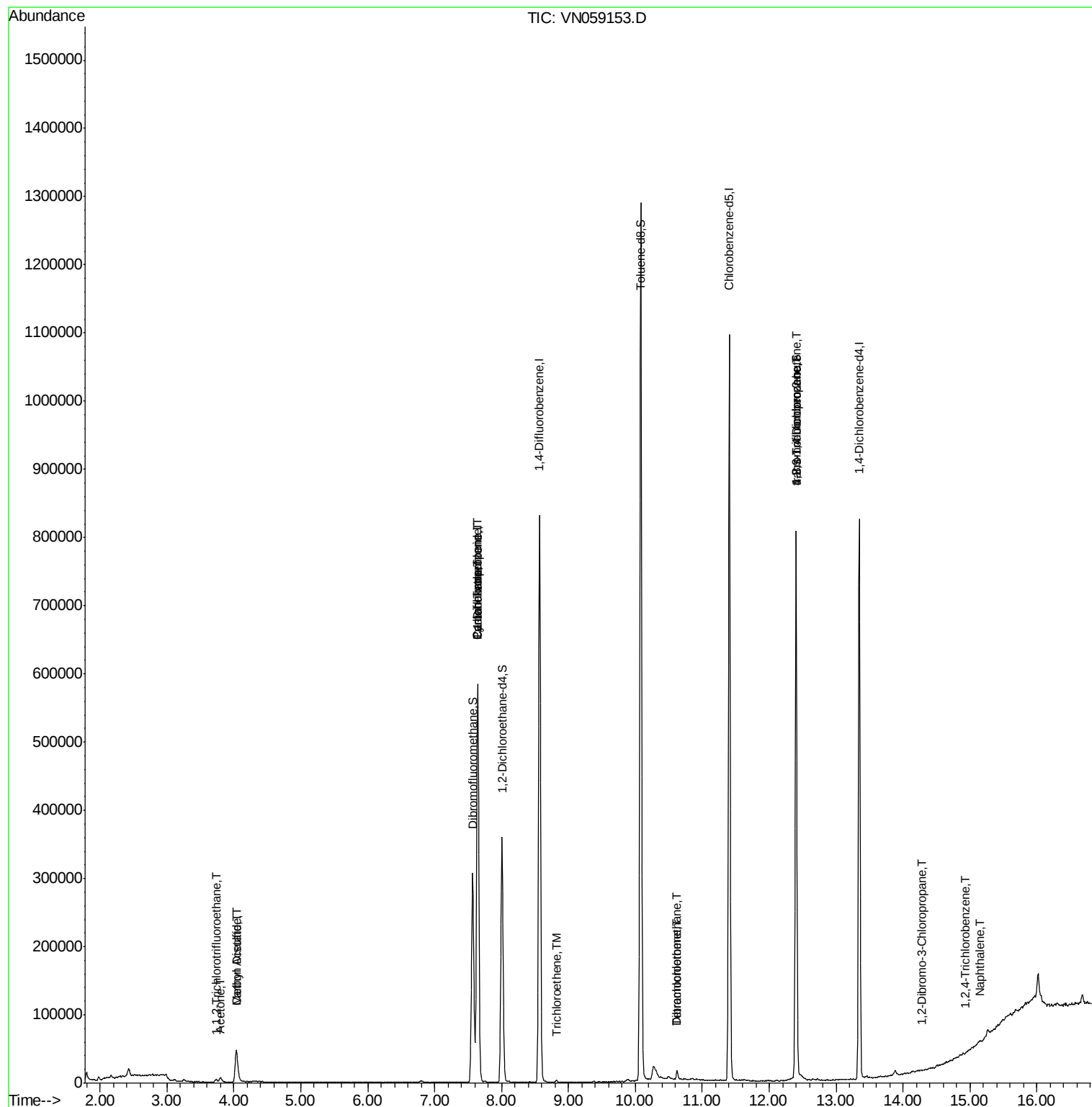
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) 1,1,2-Trichlorotrifluoroet	3.73	101	2653	0.584	ug/l #	91
16) Acetone	3.80	43	10935	3.605	ug/l	92
17) Carbon Disulfide	4.03	76	3961	0.288	ug/l #	75
18) Methyl Acetate	4.04	43	17074	2.372	ug/l #	53
31) Cyclohexane	7.65	56	9972	1.098	ug/l #	4
36) 1,1-Dichloropropene	7.64	75	37209	5.335	ug/l #	50
38) Carbon Tetrachloride	7.64	117	45177	6.508	ug/l #	16
44) Trichloroethene	8.81	130	1294	0.251	ug/l	84
60) Dibromochloromethane	10.63	129	3024	0.561	ug/l #	11
64) Tetrachloroethene	10.62	164	2916	0.678	ug/l	91
76) 1,2,3-Trichloropropane	12.40	75	145693	28.752	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	145693	75.941	ug/l #	13
92) 1,2-Dibromo-3-Chloropropan	14.27	75	266	0.268	ug/l #	3
93) 1,2,4-Trichlorobenzene	14.92	180	32	3.054	ug/l #	12
95) Naphthalene	15.13	128	437	3.080	ug/l #	70

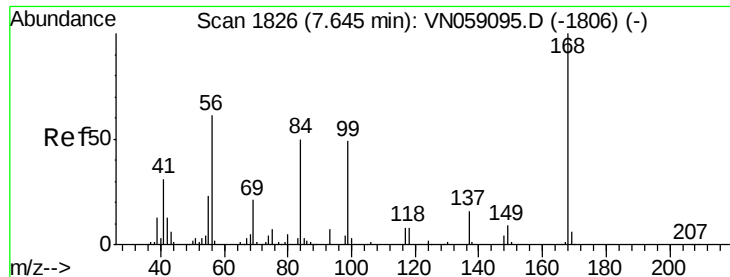
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN059153.D

Acq: 11 Nov 2019 12:19

Instrument :

MSVOA_N

ClientSampleId :

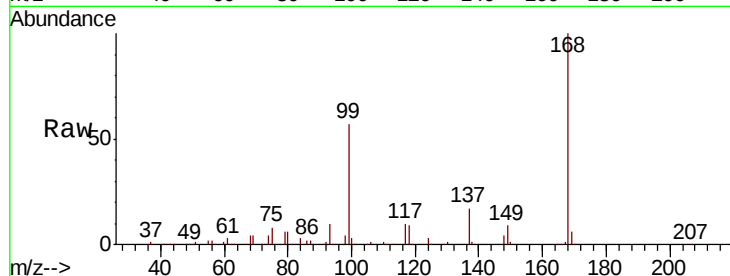
MW-317C-SRI4

Tot Ion:168 Resp: 474488

Ion Ratio Lower Upper

168 100

99 57.2 45.7 68.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.64

200000

150000

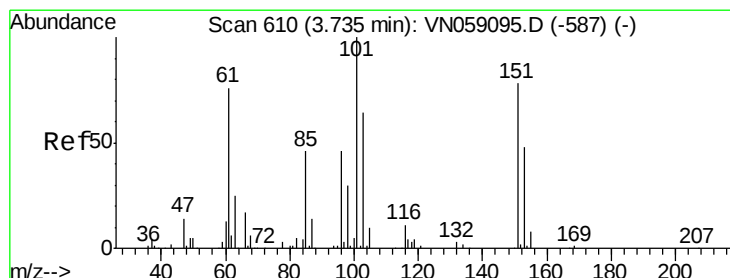
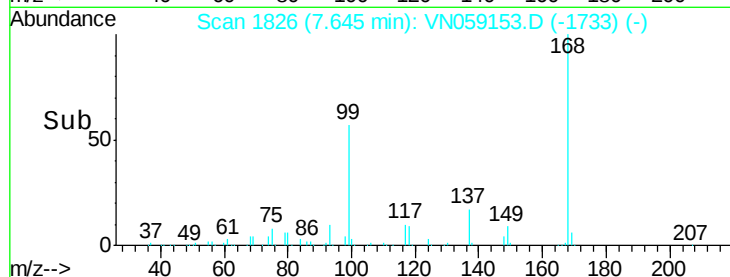
100000

50000

0

7.60 7.70

Time-->



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.584 ug/l

RT: 3.73 min Scan# 609

Delta R.T. -0.00 min

Lab File: VN059153.D

Acq: 11 Nov 2019 12:19

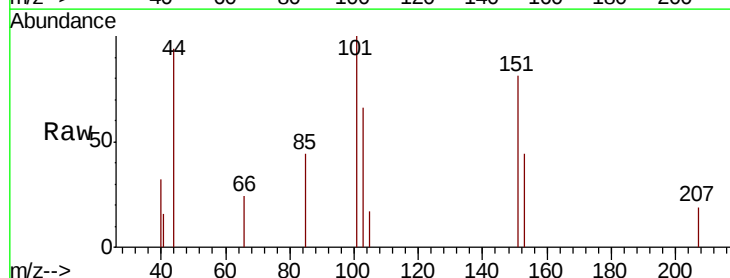
Tgt Ion:101 Resp: 2653

Ion Ratio Lower Upper

101 100

85 32.8 35.5 53.3#

151 81.6 62.2 93.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN0

Ion 150.80 (150.50 to 151.50): V

3.73

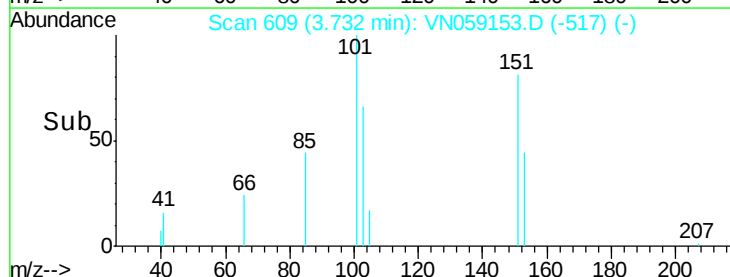
1000

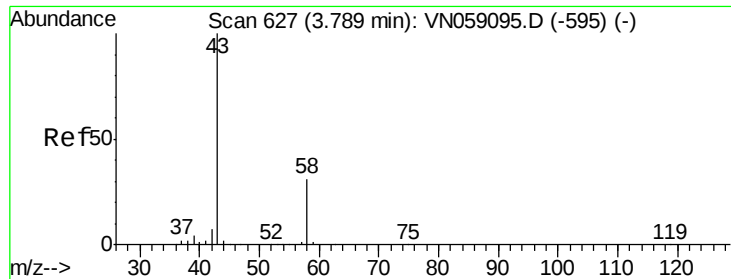
500

0

3.65 3.70 3.75 3.80

Time-->





#16

Acetone

Concen: 3.605 ug/l

RT: 3.80 min Scan# 629

Delta R.T. 0.01 min

Lab File: VN059153.D

Acq: 11 Nov 2019 12:19

Instrument :

MSVOA_N

ClientSampleId :

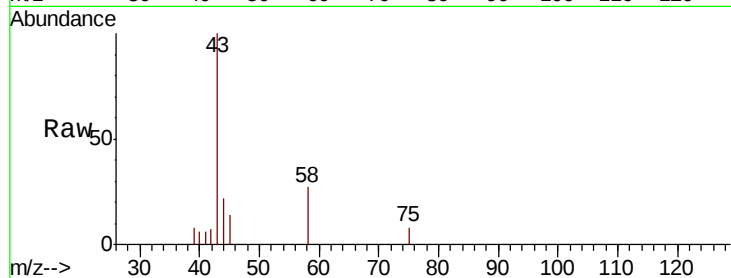
MW-317C-SRI4

Tot Ion: 43 Resp: 10935

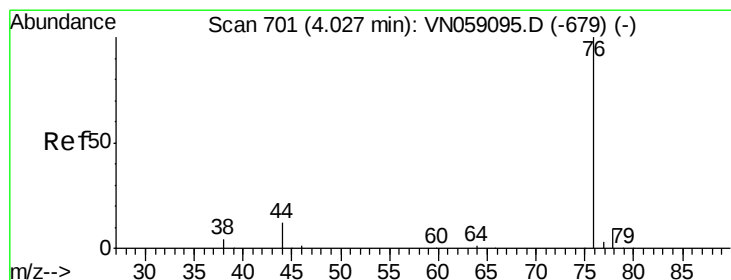
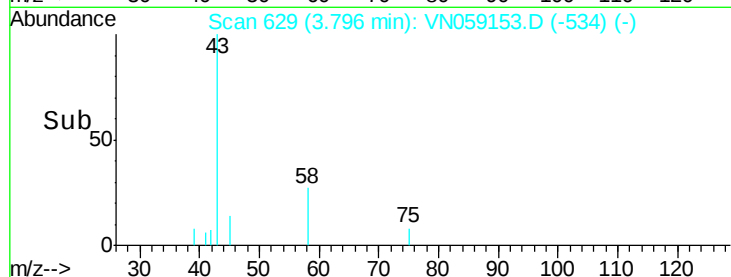
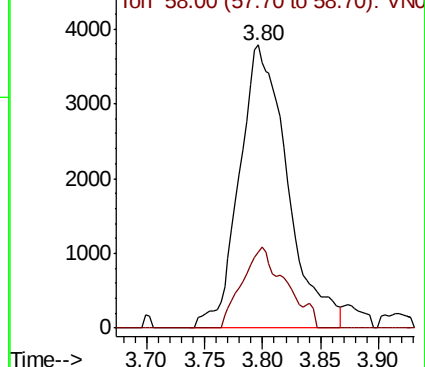
Ion Ratio Lower Upper

43 100

58 26.9 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VN059153.D (-534) (-)



#17

Carbon Disulfide

Concen: 0.288 ug/l

RT: 4.03 min Scan# 701

Delta R.T. -0.00 min

Lab File: VN059153.D

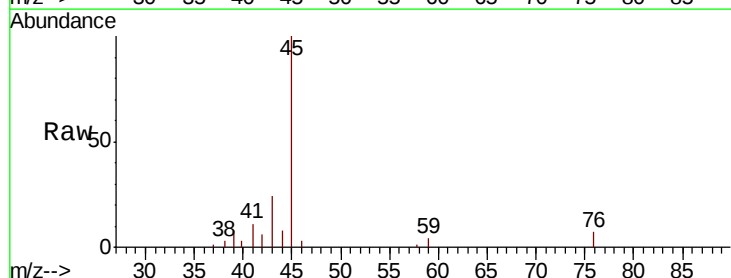
Acq: 11 Nov 2019 12:19

Tgt Ion: 76 Resp: 3961

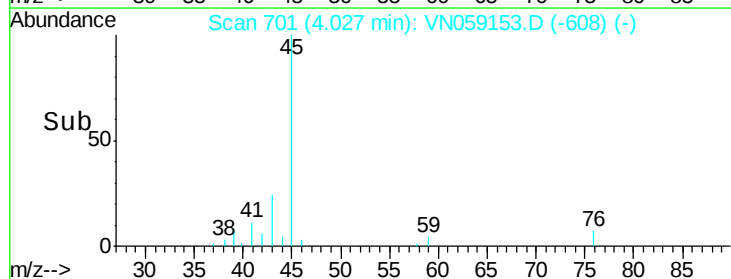
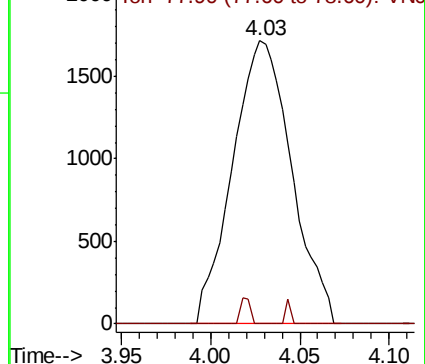
Ion Ratio Lower Upper

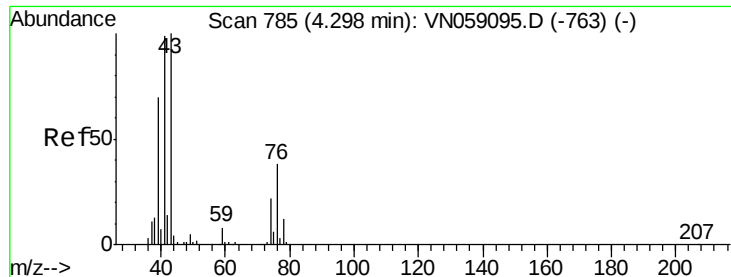
76 100

78 0.0 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VN059153.D (-608) (-)

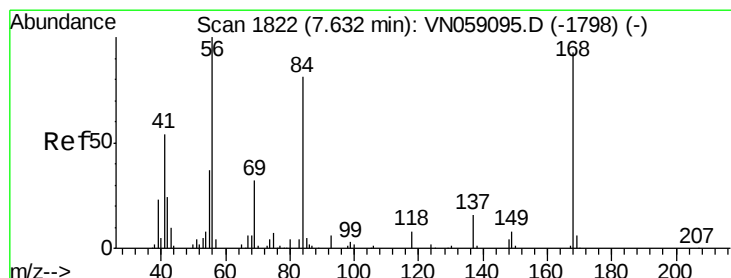
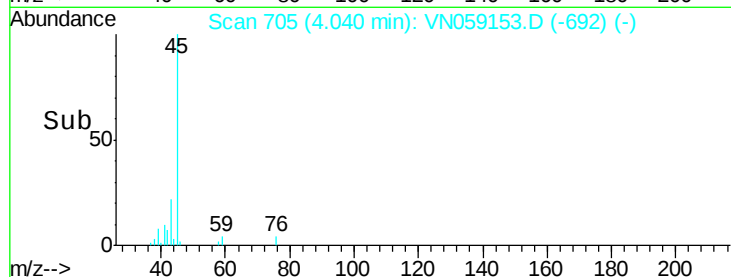
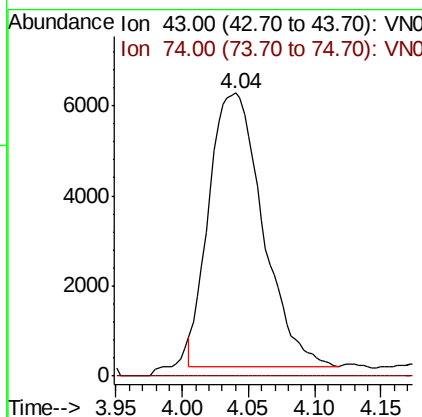
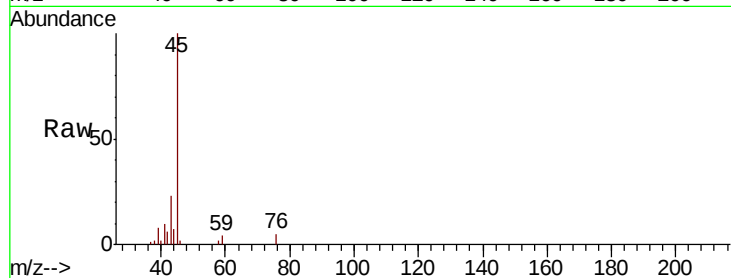




#18
Methvl Acetate
Concen: 2.372 ug/l
RT: 4.04 min Scan# 705
Delta R.T. -0.26 min
Lab File: VN059153.D
Acq: 11 Nov 2019 12:19

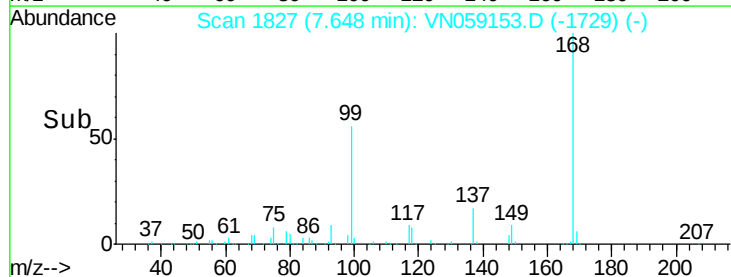
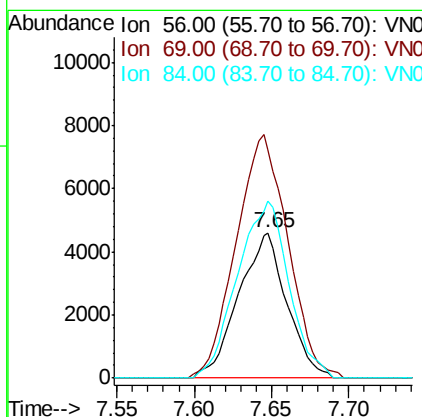
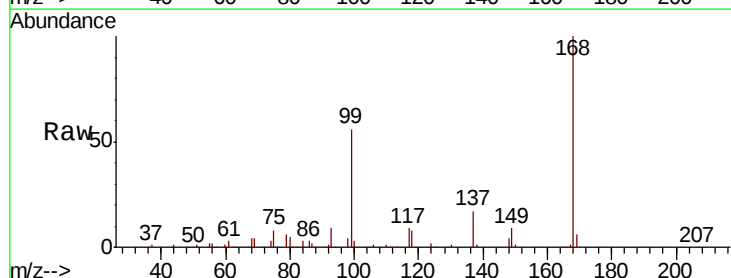
Instrument :
MSVOA_N
ClientSampleId :
MW-317C-SRI4

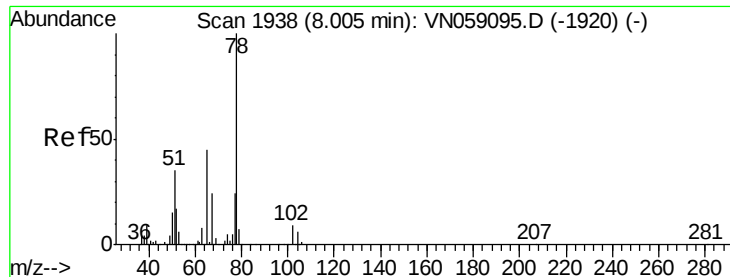
Tot Ion: 43 Resp: 17074
Ion Ratio Lower Upper
43 100
74 0.0 17.8 26.8#



#31
Cyclohexane
Concen: 1.098 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. 0.02 min
Lab File: VN059153.D
Acq: 11 Nov 2019 12:19

Tgt Ion: 56 Resp: 9972
Ion Ratio Lower Upper
56 100
69 156.9 25.8 38.8#
84 121.5 65.0 97.4#

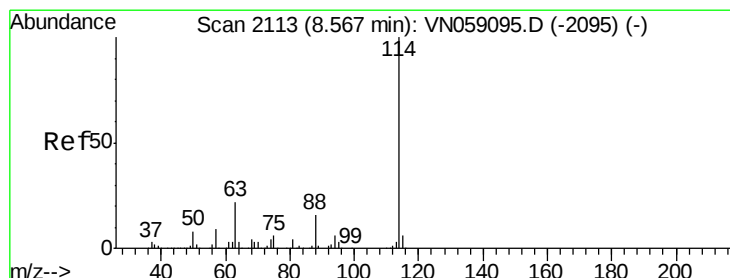
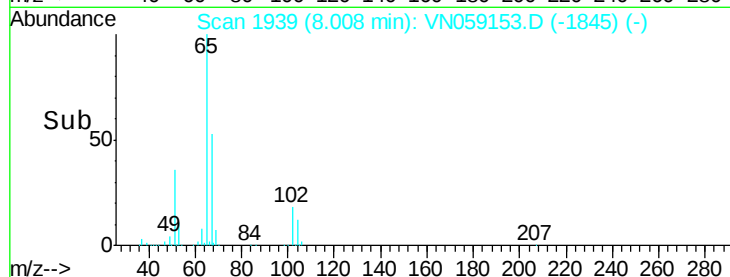
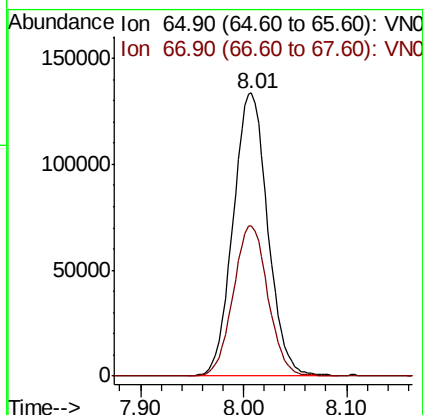
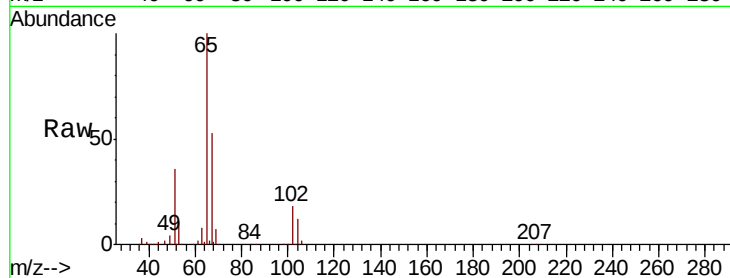




#33
 1,2-Dichloroethane-d4
 Concen: 53.510 ug/l
 RT: 8.01 min Scan# 1939
 Delta R.T. 0.00 min
 Lab File: VN059153.D
 Acq: 11 Nov 2019 12:19

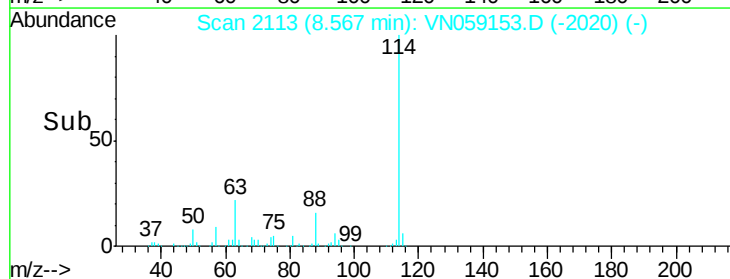
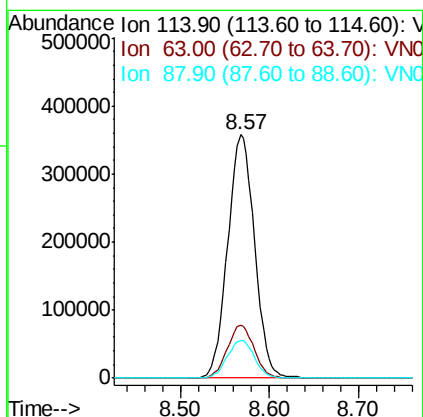
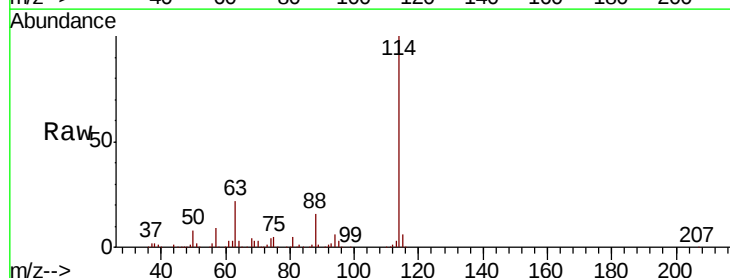
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-317C-SRI4

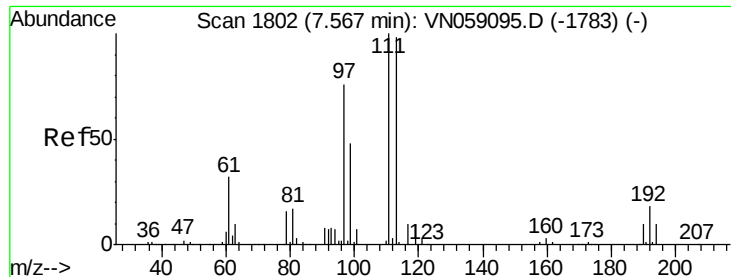
Tot Ion: 65 Resp: 312106
 Ion Ratio Lower Upper
 65 100
 67 53.4 0.0 107.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN059153.D
 Acq: 11 Nov 2019 12:19

Tgt Ion: 114 Resp: 746186
 Ion Ratio Lower Upper
 114 100
 63 21.6 0.0 43.4
 88 15.5 0.0 32.2

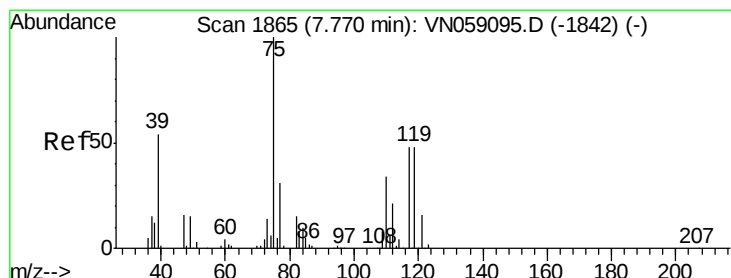
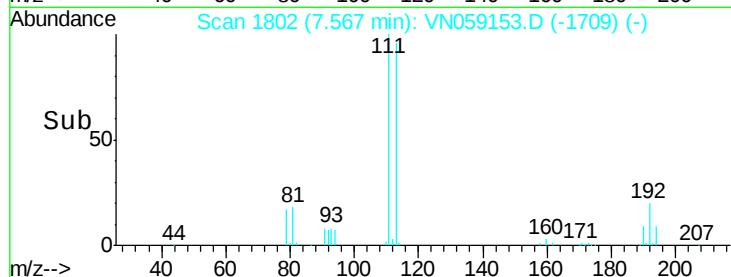
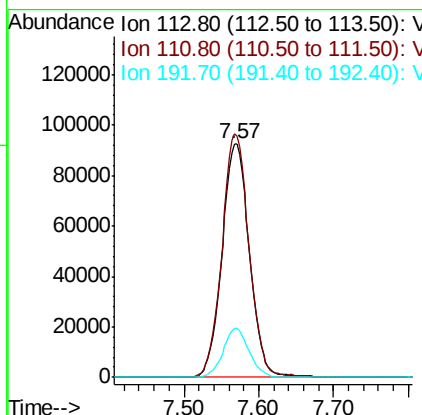
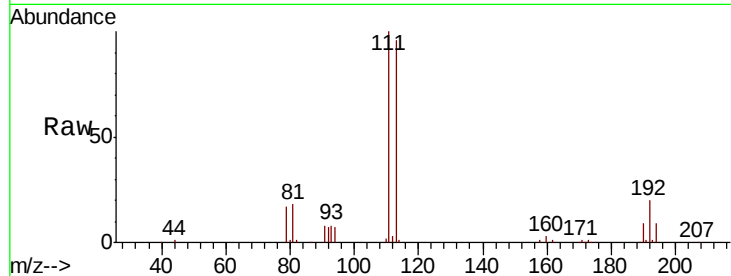




#35
 Dibromofluoromethane
 Concen: 52.709 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. -0.00 min
 Lab File: VN059153.D
 Acq: 11 Nov 2019 12:19

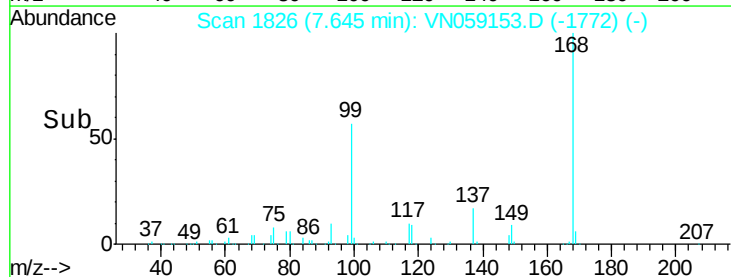
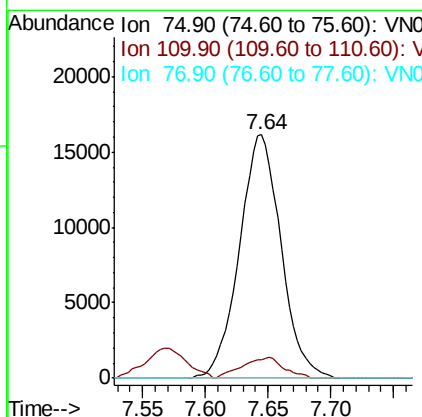
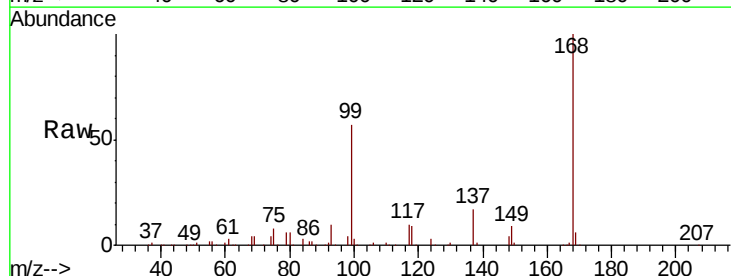
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-317C-SRI4

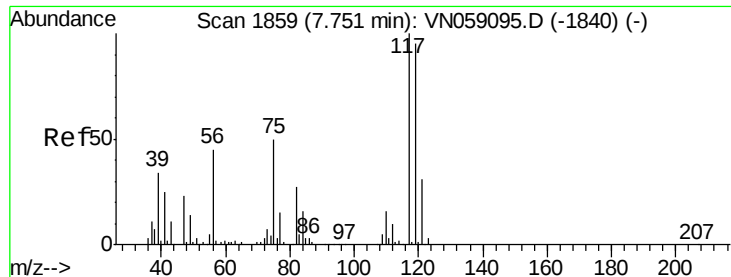
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.2	82.8	124.2
192	19.9	16.1	24.1



#36
 1,1-Dichloropropene
 Concen: 5.335 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN059153.D
 Acq: 11 Nov 2019 12:19

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.4	17.1	51.2#
77	0.0	24.8	37.2#





#38

Carbon Tetrachloride

Concen: 6.508 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN059153.D

Acq: 11 Nov 2019 12:19

Instrument :

MSVOA_N

ClientSampleId :

MW-317C-SRI4

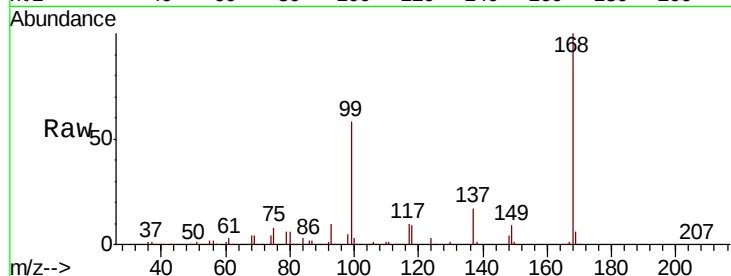
Tot Ion:117 Resp: 45177

Ion Ratio Lower Upper

117 100

119 4.9 75.6 113.4#

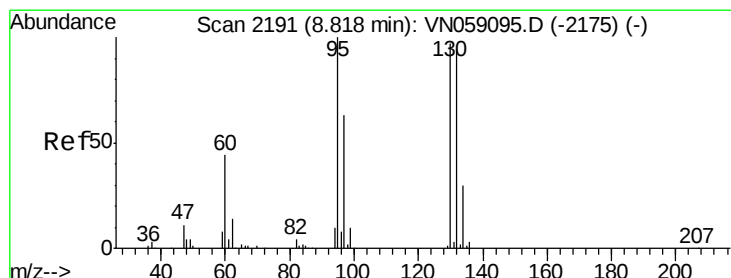
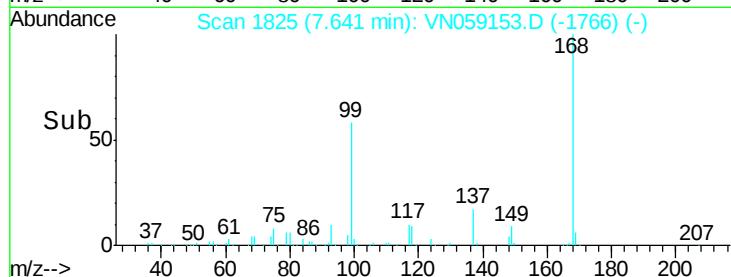
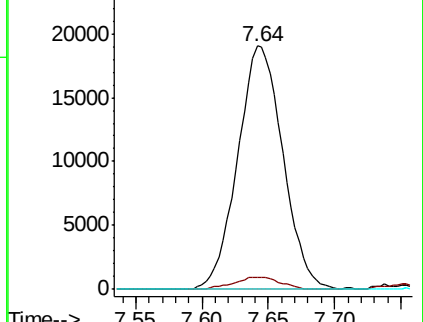
121 0.0 24.6 36.8#



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



#44

Trichloroethene

Concen: 0.251 ug/l

RT: 8.81 min Scan# 2190

Delta R.T. -0.00 min

Lab File: VN059153.D

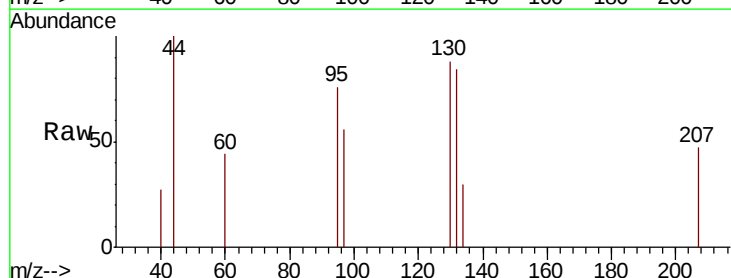
Acq: 11 Nov 2019 12:19

Tgt Ion:130 Resp: 1294

Ion Ratio Lower Upper

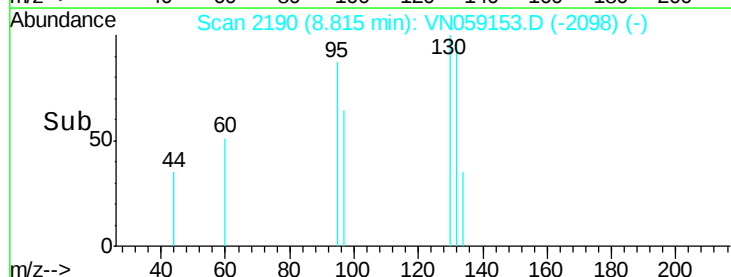
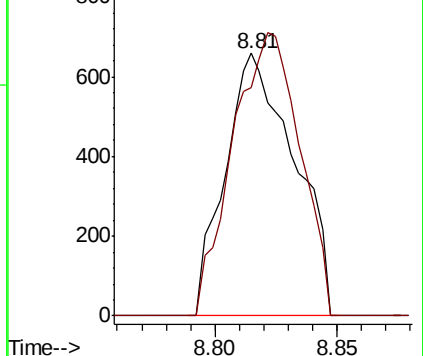
130 100

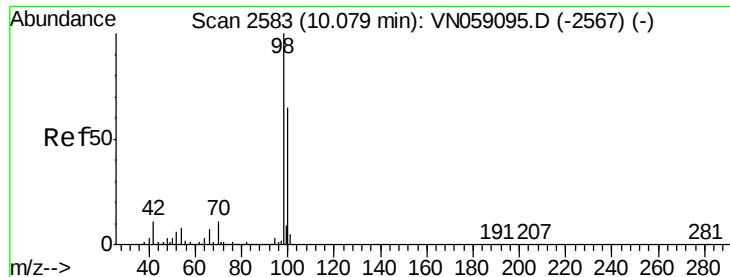
95 87.1 0.0 206.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): V





#50

Toluene-d8

Concen: 51.804 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. -0.00 min

Lab File: VN059153.D

Acq: 11 Nov 2019 12:19

Instrument :

MSVOA_N

ClientSampleId :

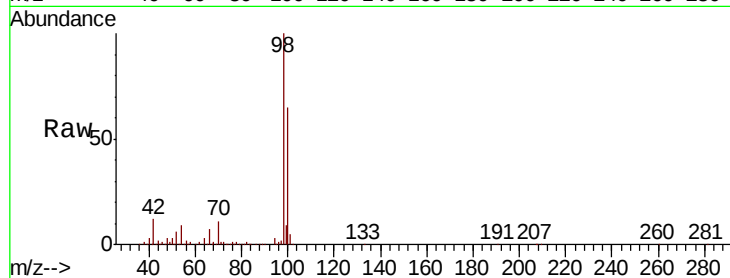
MW-317C-SRI4

Tot Ion: 98 Resp: 909137

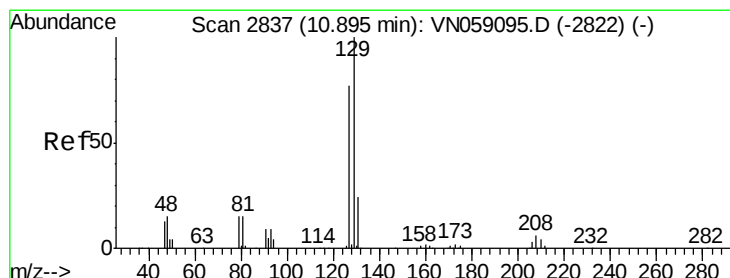
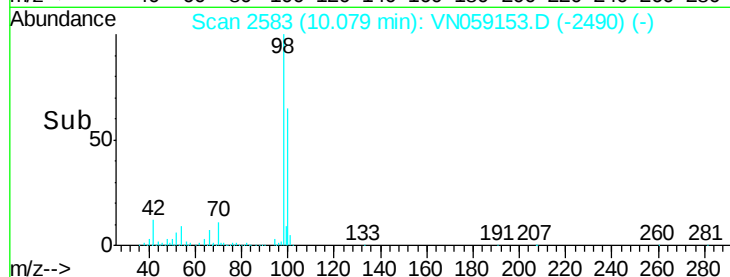
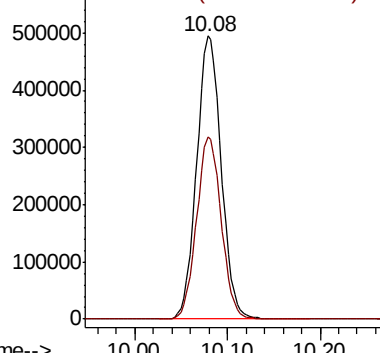
Ion Ratio Lower Upper

98 100

100 64.5 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN059153.D (-2490) (-)



#60

Dibromochloromethane

Concen: 0.561 ug/l

RT: 10.63 min Scan# 2753

Delta R.T. -0.27 min

Lab File: VN059153.D

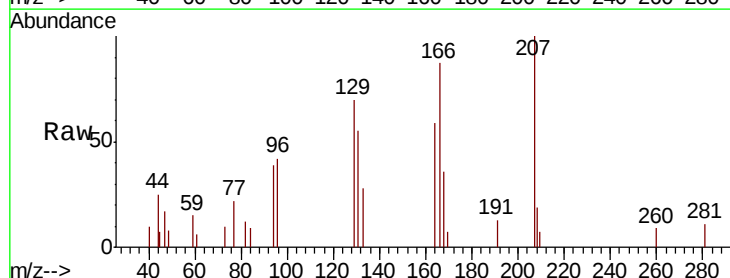
Acq: 11 Nov 2019 12:19

Tgt Ion: 129 Resp: 3024

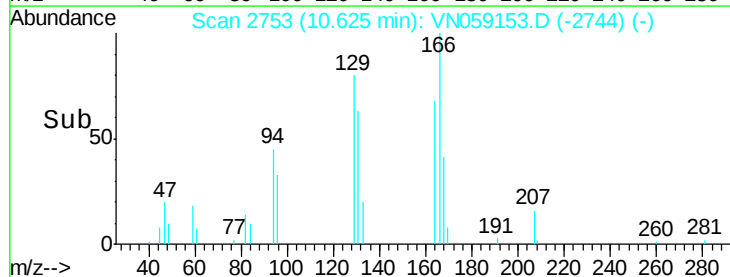
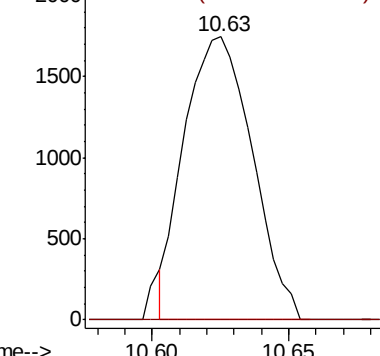
Ion Ratio Lower Upper

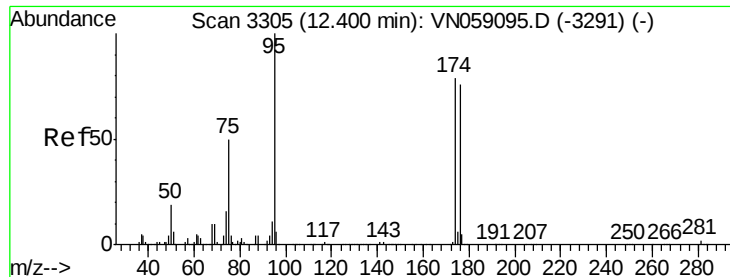
129 100

127 0.0 38.6 115.8#



Abundance Ion 128.80 (128.50 to 129.50): VN059153.D (-2744) (-)





#62

4-Bromofluorobenzene

Concen: 45.440 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN059153.D

Acq: 11 Nov 2019 12:19

Instrument :

MSVOA_N

ClientSampleId :

MW-317C-SRI4

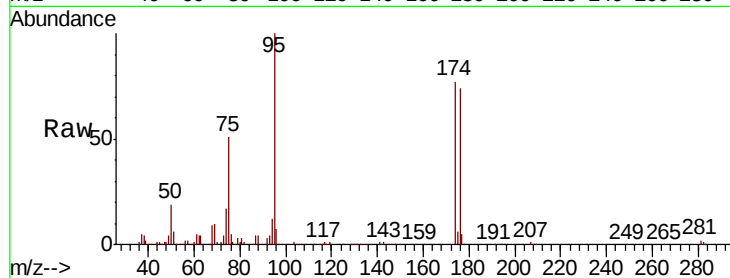
Tot Ion: 95 Resp: 287535

Ion Ratio Lower Upper

95 100

174 76.8 0.0 158.2

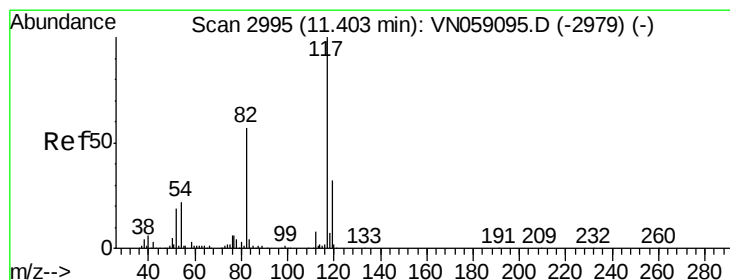
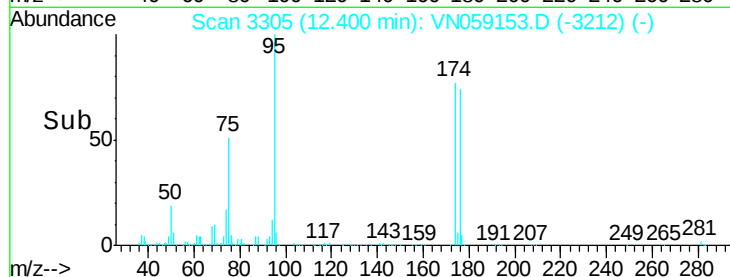
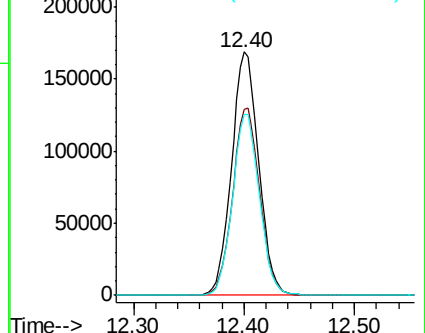
176 74.0 0.0 151.8



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2995

Delta R.T. 0.00 min

Lab File: VN059153.D

Acq: 11 Nov 2019 12:19

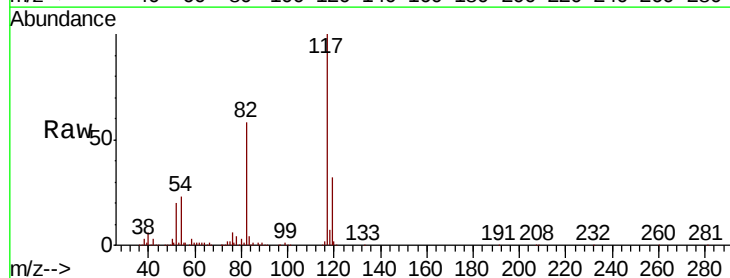
Tgt Ion: 117 Resp: 632908

Ion Ratio Lower Upper

117 100

82 57.5 45.8 68.8

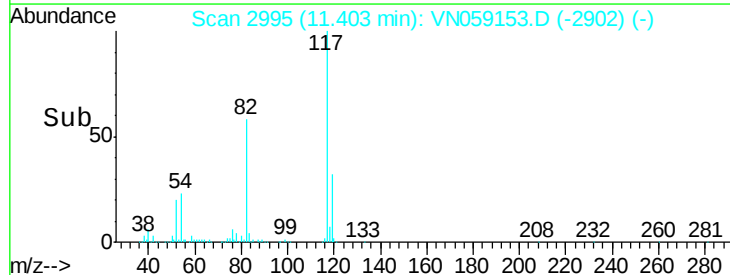
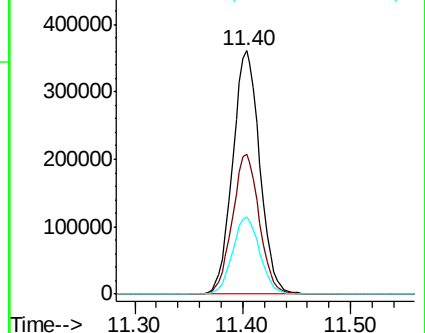
119 31.6 25.8 38.6

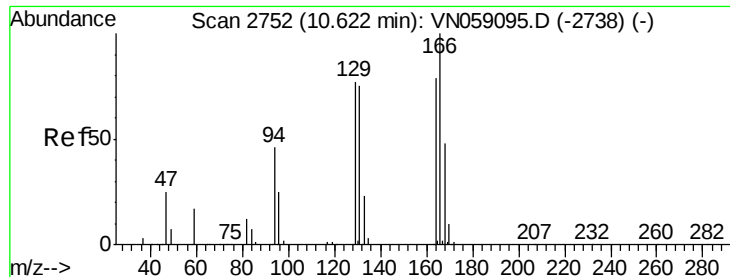


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#64

Tetrachloroethene

Concen: 0.678 ug/l

RT: 10.62 min Scan# 2751

Delta R.T. -0.00 min

Lab File: VN059153.D

Acq: 11 Nov 2019 12:19

Instrument :

MSVOA_N

ClientSampleId :

MW-317C-SRI4

Tot Ion:164 Resp: 2916

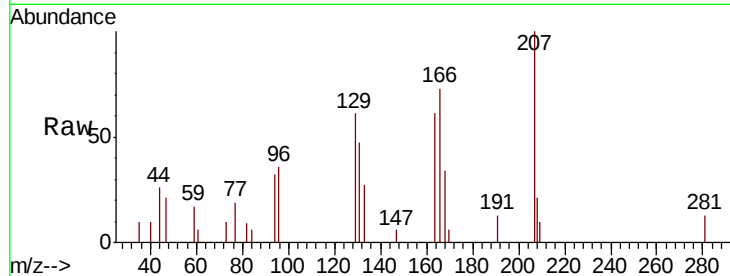
Ion Ratio Lower Upper

164 100

166 119.7 101.5 152.3

129 100.6 78.3 117.5

131 77.2 75.9 113.9

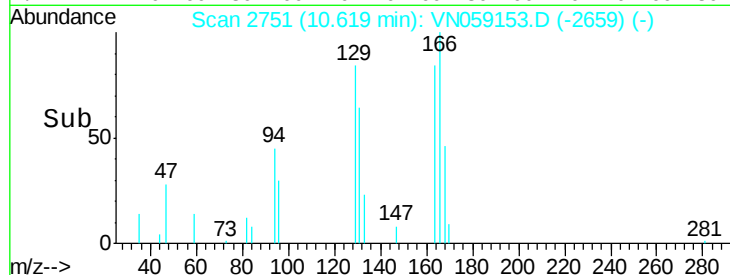


Abundance Ion 163.80 (163.50 to 164.50): V

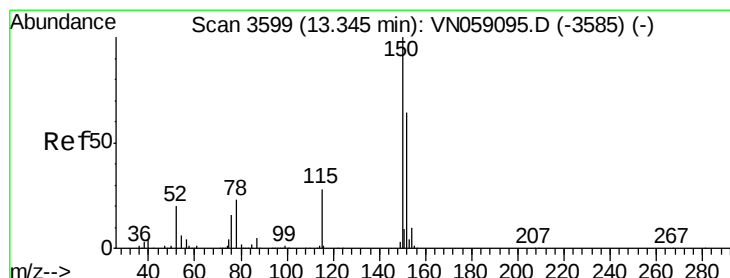
Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. -0.00 min

Lab File: VN059153.D

Acq: 11 Nov 2019 12:19

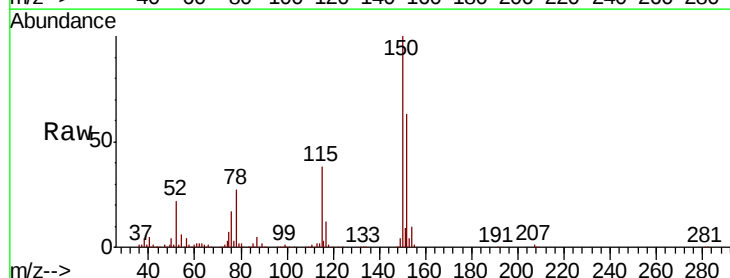
Tgt Ion:152 Resp: 222575

Ion Ratio Lower Upper

152 100

115 60.0 29.4 88.2

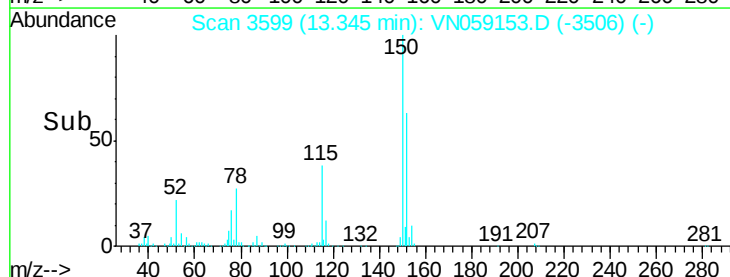
150 156.2 0.0 345.8



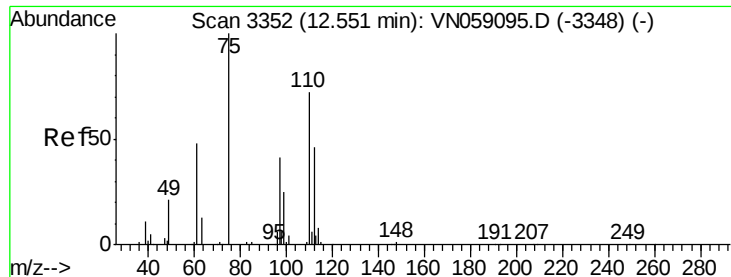
Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



Time-->



#76

1,2,3-Trichloropropane

Concen: 28.752 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN059153.D

Acq: 11 Nov 2019 12:19

Instrument :

MSVOA_N

ClientSampleId :

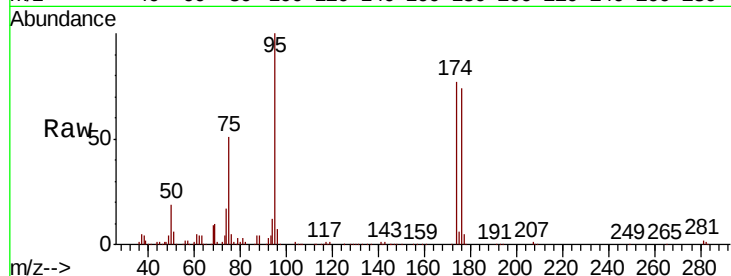
MW-317C-SRI4

Tot Ion: 75 Resp: 145693

Ion Ratio Lower Upper

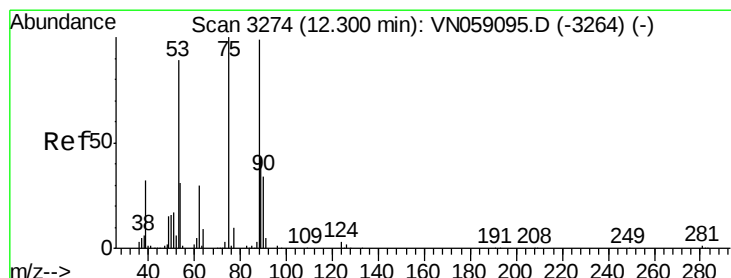
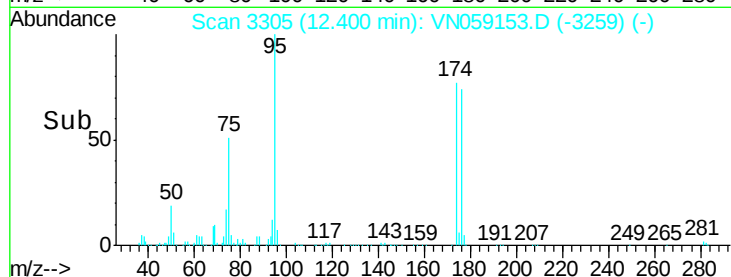
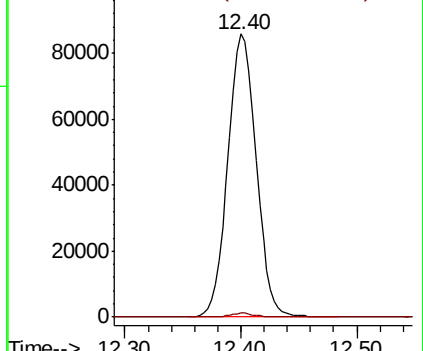
75 100

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: 75.941 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN059153.D

Acq: 11 Nov 2019 12:19

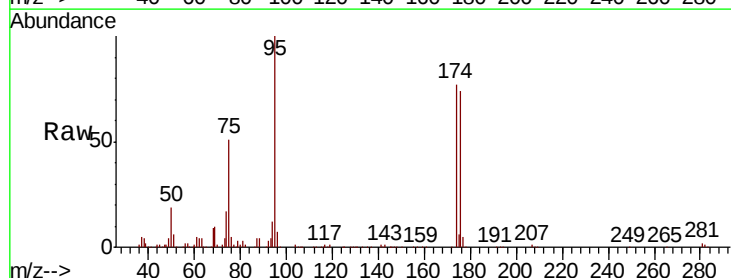
Tgt Ion: 75 Resp: 145693

Ion Ratio Lower Upper

75 100

53 0.0 72.2 108.2#

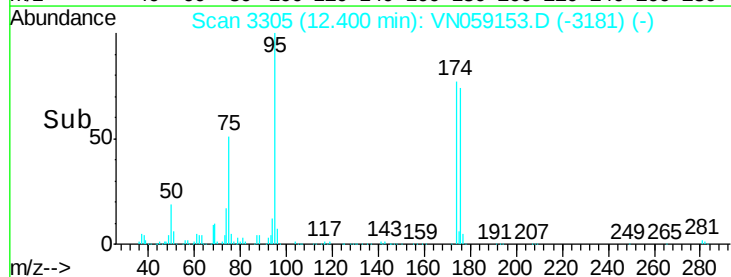
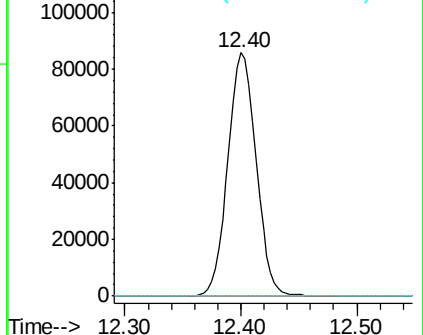
89 0.0 35.8 53.8#

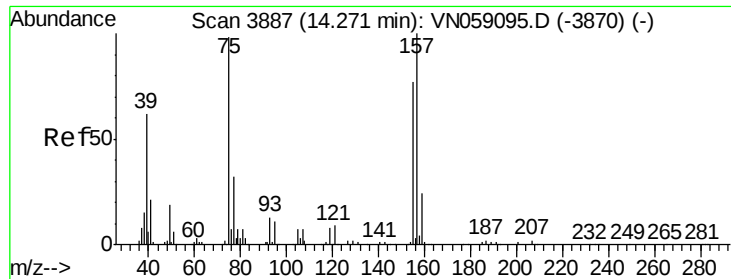


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.268 ug/l

RT: 14.27 min Scan# 3886

Delta R.T. -0.00 min

Lab File: VN059153.D

Acq: 11 Nov 2019 12:19

Instrument :

MSVOA_N

ClientSampleId :

MW-317C-SRI4

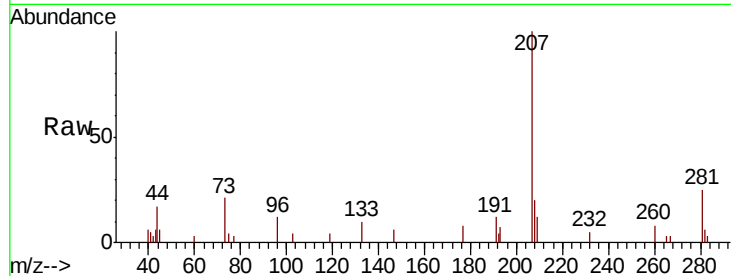
Tot Ion: 75 Resp: 266

Ion Ratio Lower Upper

75 100

155 0.0 40.2 120.6#

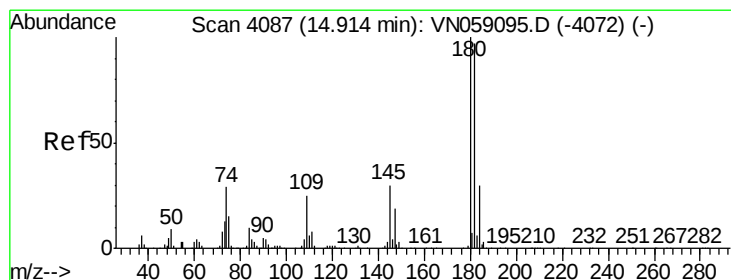
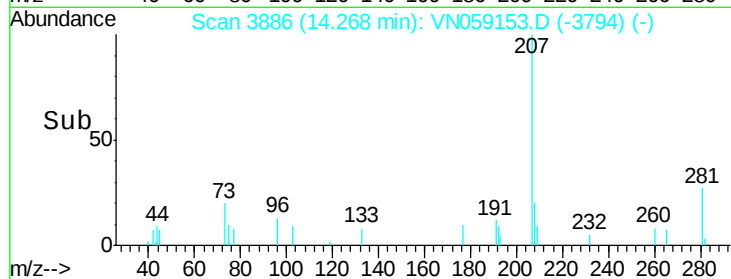
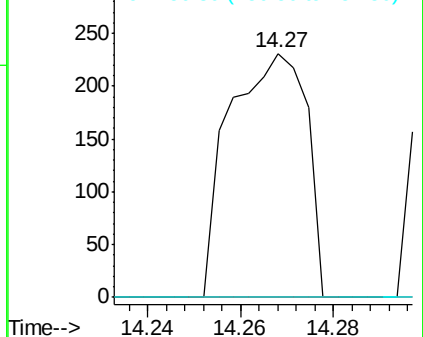
157 0.0 51.8 155.5#



Abundance Ion 74.90 (74.60 to 75.60): VN059153.D (-3794) (-)

Ion 154.80 (154.50 to 155.50): VN059153.D (-3794) (-)

Ion 156.80 (156.50 to 157.50): VN059153.D (-3794) (-)



#93

1,2,4-Trichlorobenzene

Concen: 3.054 ug/l

RT: 14.92 min Scan# 4090

Delta R.T. 0.01 min

Lab File: VN059153.D

Acq: 11 Nov 2019 12:19

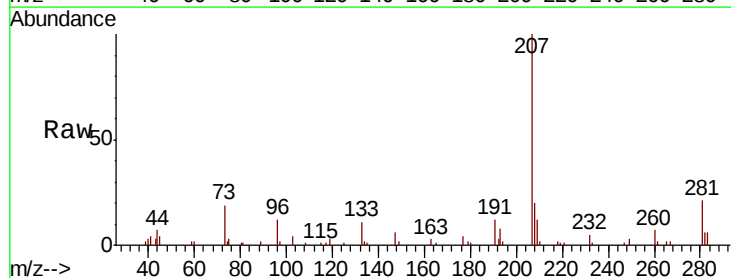
Tgt Ion: 180 Resp: 32

Ion Ratio Lower Upper

180 100

182 0.0 48.1 144.3#

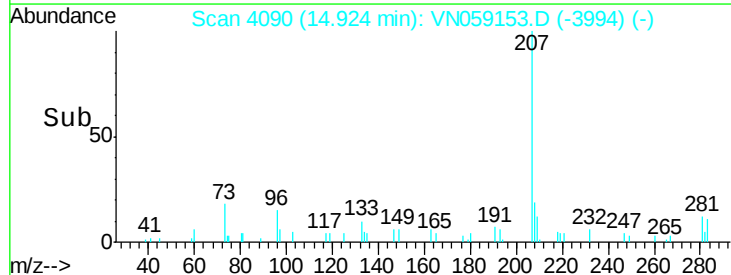
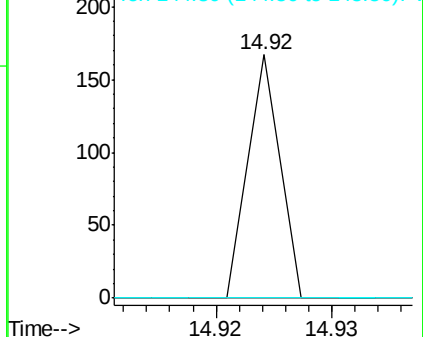
145 0.0 15.1 45.3#

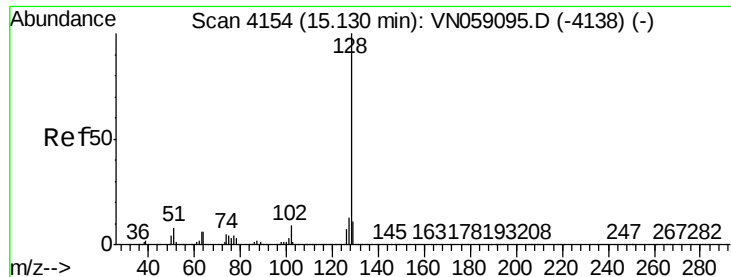


Abundance Ion 179.80 (179.50 to 180.50): VN059153.D (-3994) (-)

Ion 181.80 (181.50 to 182.50): VN059153.D (-3994) (-)

Ion 144.80 (144.50 to 145.50): VN059153.D (-3994) (-)





#95

Naphthalene

Concen: 3.080 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN059153.D

Acq: 11 Nov 2019 12:19

Instrument :

MSVOA_N

ClientSampleId :

MW-317C-SRI4

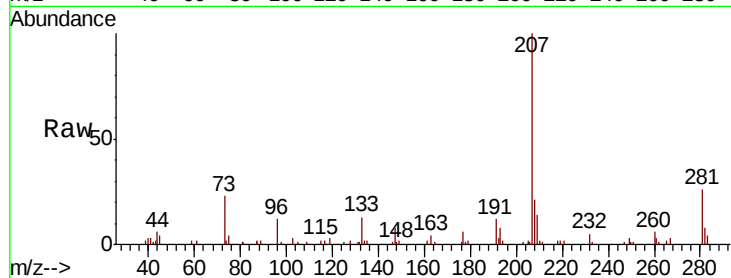
Tot Ion:128 Resp: 437

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

129 0.0 8.6 12.8#



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

