

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111219\
 Data File : VN059180.D
 Acq On : 12 Nov 2019 11:26
 Operator : JC/SP
 Sample : K5769-14
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-306-SRI4

Quant Time: Nov 13 05:36:46 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	414324	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	645757	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	563183	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	195048	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	273025	53.61	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	107.22%	
35) Dibromofluoromethane	7.57	113	205572	53.32	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	106.64%	
50) Toluene-d8	10.08	98	783045	51.56	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	103.12%	
62) 4-Bromofluorobenzene	12.40	95	237620	43.39	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	86.78%	

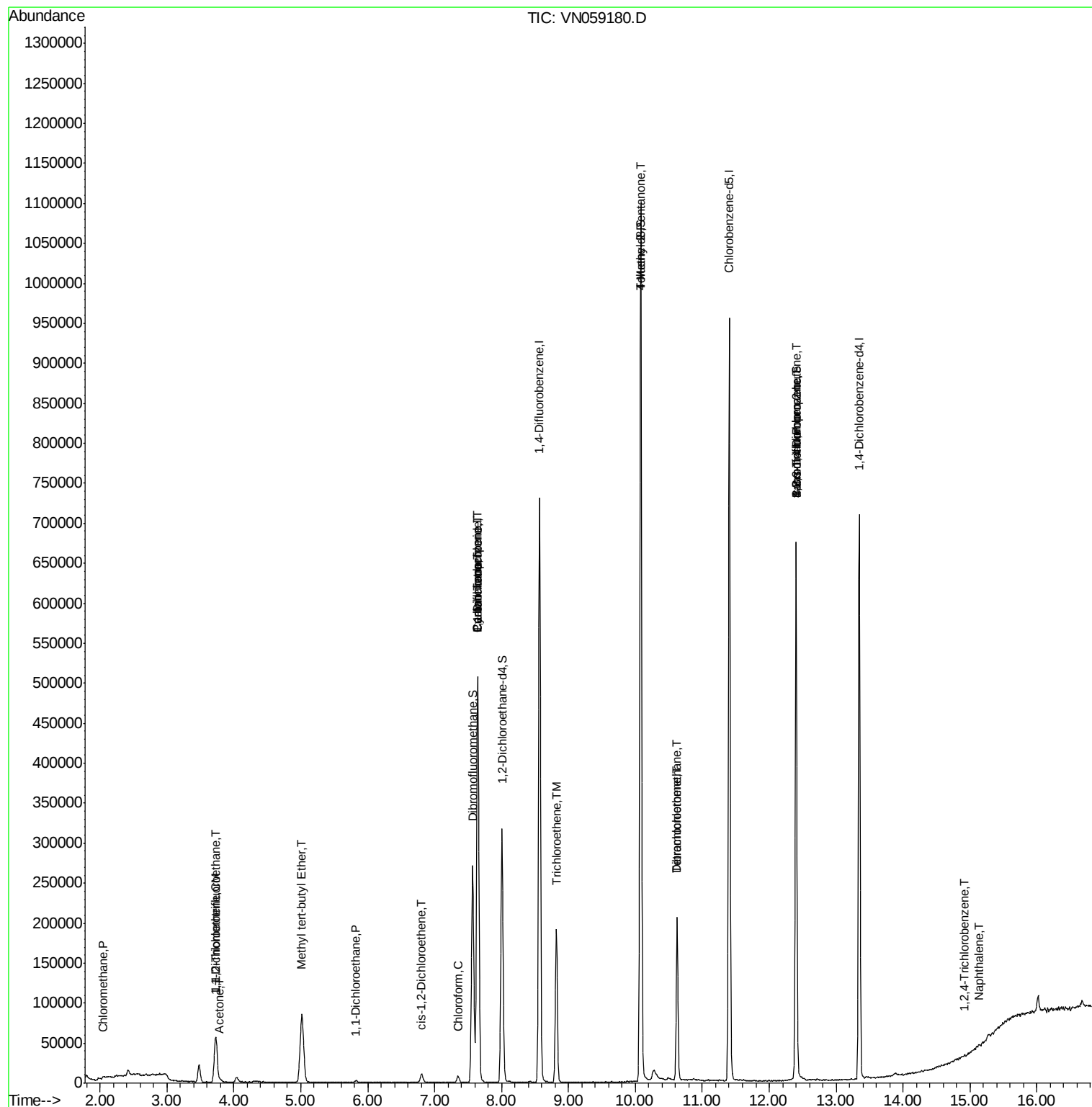
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	1971	0.347	ug/l #	71
9) 1,1,2-Trichlorotrifluoroet	3.73	101	27710	6.984	ug/l	99
12) 1,1-Dichloroethene	3.71	96	11274	2.917	ug/l	94
16) Acetone	3.79	43	5985	2.260	ug/l	90
19) Methyl tert-butyl Ether	5.01	73	143500	10.784	ug/l	100
24) 1,1-Dichloroethane	5.82	63	2273	0.271	ug/l #	85
27) cis-1,2-Dichloroethene	6.81	96	7066	1.468	ug/l	85
30) Chloroform	7.35	83	8438	1.050	ug/l	96
31) Cyclohexane	7.65	56	9267	1.169	ug/l #	3
36) 1,1-Dichloropropene	7.64	75	32314	5.354	ug/l #	50
38) Carbon Tetrachloride	7.64	117	39338	6.548	ug/l #	17
44) Trichloroethene	8.82	130	71778	16.065	ug/l	97
51) 4-Methyl-2-Pentanone	10.08	43	3625	0.598	ug/l #	1
60) Dibromochloromethane	10.62	129	45258	9.709	ug/l #	11
64) Tetrachloroethene	10.62	164	48613	12.694	ug/l	98
71) Bromoform	12.40	173	1412	0.441	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	120065	27.038	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	120065	71.415	ug/l #	13
93) 1,2,4-Trichlorobenzene	14.90	180	30	3.054	ug/l #	1
95) Naphthalene	15.13	128	758	3.115	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: VN059180.D

Acq: 12 Nov 2019 11:26

Instrument :

MSVOA_N

ClientSampleId :

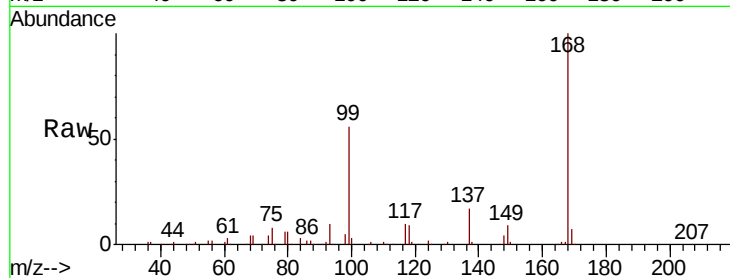
MW-306-SRI4

Tot Ion:168 Resp: 414324

Ion Ratio Lower Upper

168 100

99 56.0 45.7 68.5



Abundance Ion 167.90 (167.60 to 168.60): VN059180.D (-1733) (-)

Ion 98.90 (98.60 to 99.60): VN059180.D (-1733) (-)

7.64

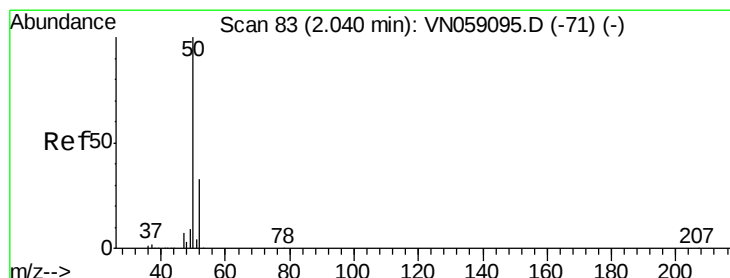
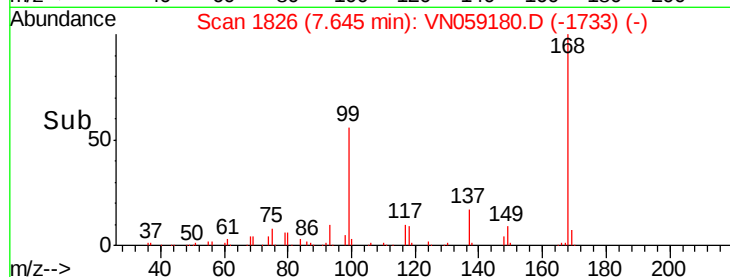
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#3

Chloromethane

Concen: 0.347 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN059180.D

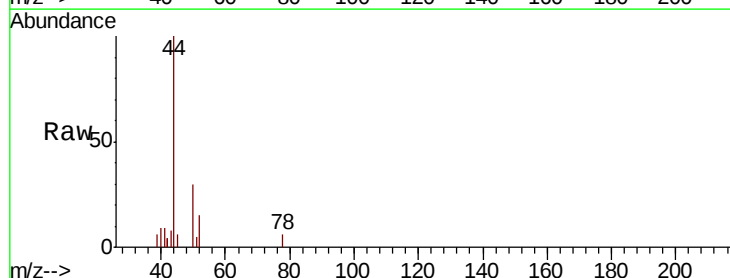
Acq: 12 Nov 2019 11:26

Tgt Ion: 50 Resp: 1971

Ion Ratio Lower Upper

50 100

52 49.0 26.0 39.0#



Abundance Ion 49.90 (49.60 to 50.60): VN059180.D (-1) (-)

Ion 51.90 (51.60 to 52.60): VN059180.D (-1) (-)

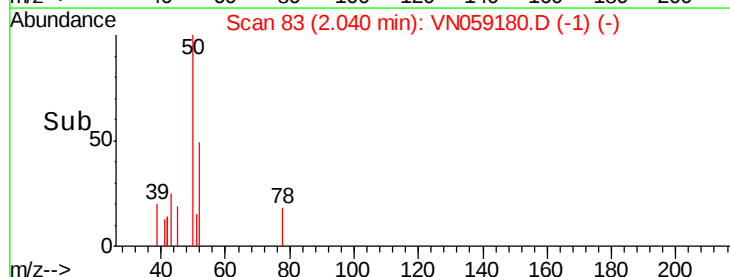
2.04

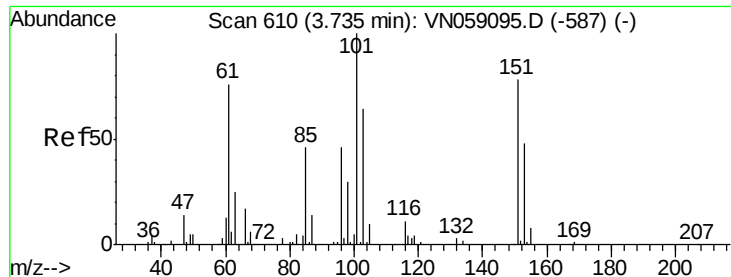
1000

500

0

Time--> 2.00 2.05





#9

1,1,2-Trichlorotrifluoroethane

Concen: 6.984 ug/l

RT: 3.73 min Scan# 610

Delta R.T. 0.00 min

Lab File: VN059180.D

Acq: 12 Nov 2019 11:26

Instrument :

MSVOA_N

ClientSampleId :

MW-306-SRI4

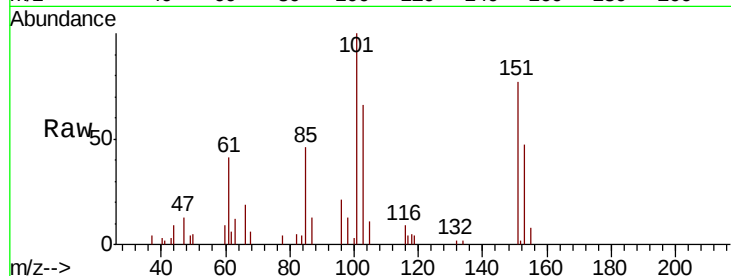
Tot Ion:101 Resp: 27710

Ion Ratio Lower Upper

101 100

85 45.6 35.5 53.3

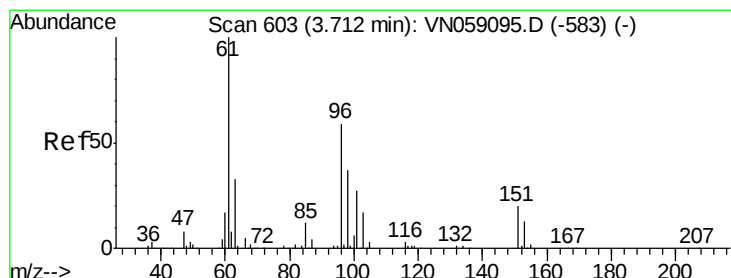
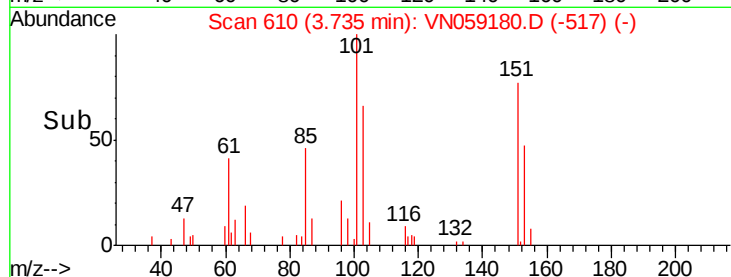
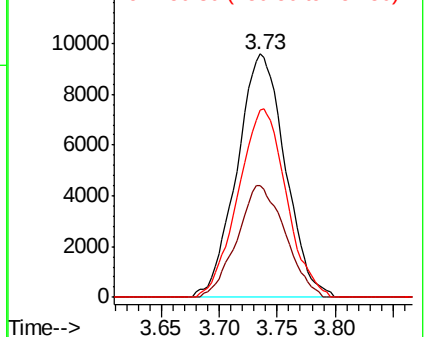
151 77.4 62.2 93.2



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



#12

1,1-Dichloroethene

Concen: 2.917 ug/l

RT: 3.71 min Scan# 603

Delta R.T. 0.00 min

Lab File: VN059180.D

Acq: 12 Nov 2019 11:26

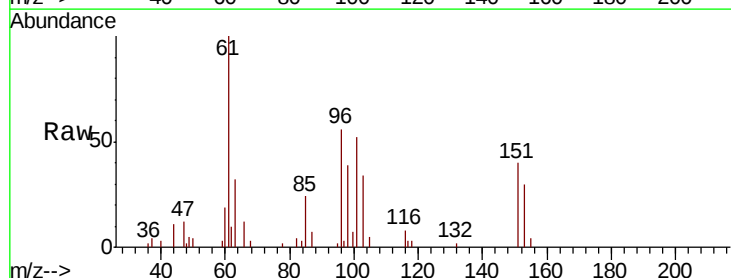
Tgt Ion: 96 Resp: 11274

Ion Ratio Lower Upper

96 100

61 177.9 136.5 204.7

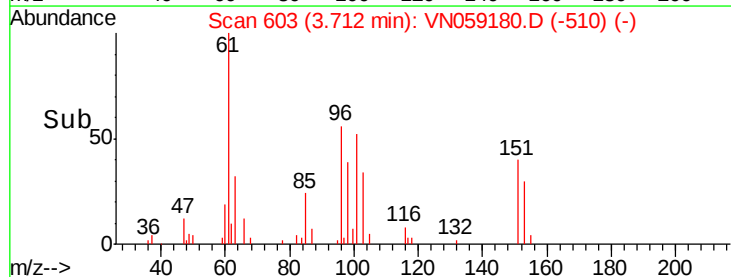
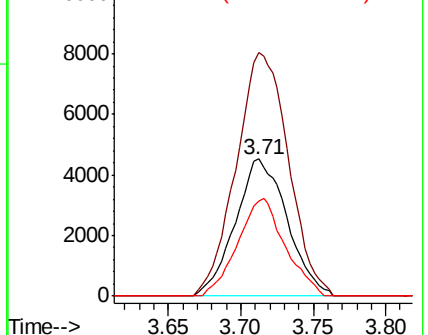
98 69.1 50.2 75.4

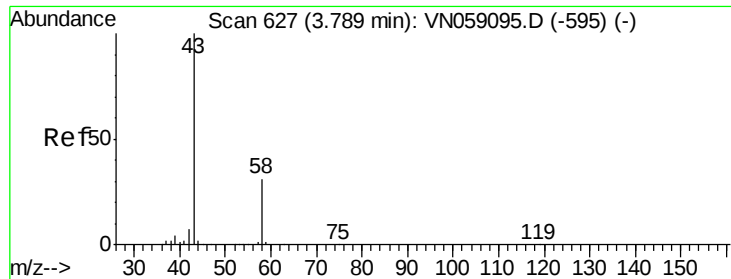


Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

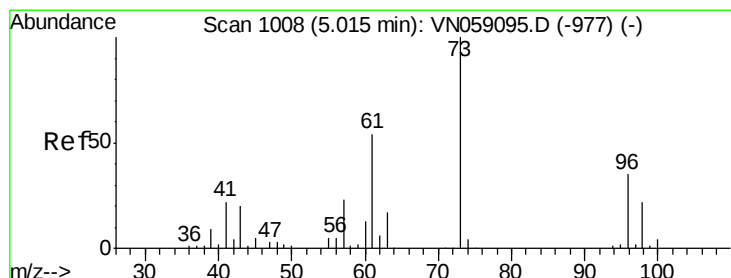
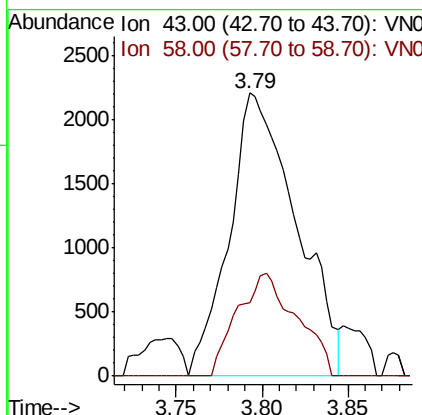
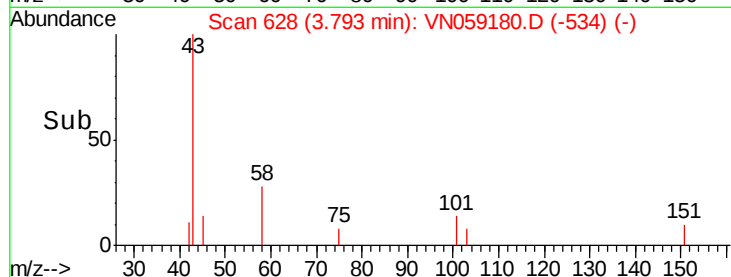
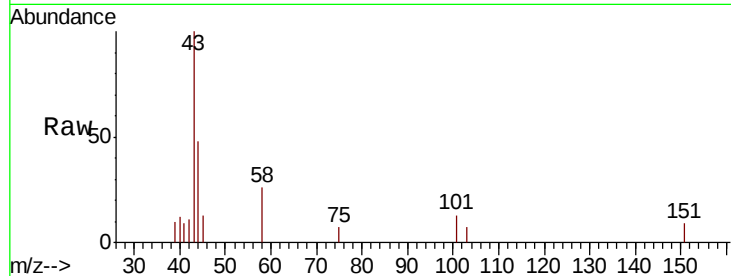




#16
Acetone
Concen: 2.260 ug/l
RT: 3.79 min Scan# 628
Delta R.T. 0.00 min
Lab File: VN059180.D
Acq: 12 Nov 2019 11:26

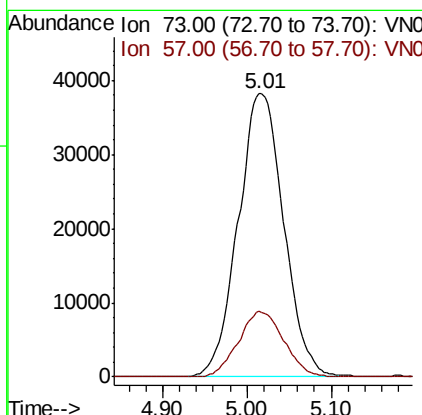
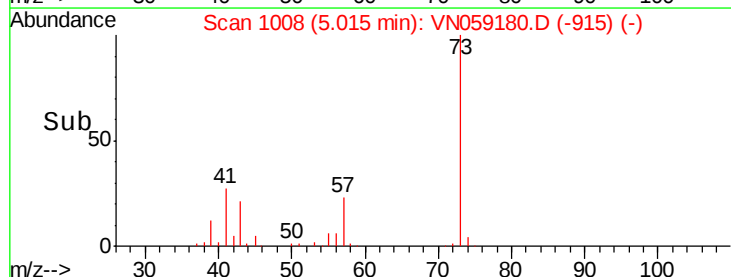
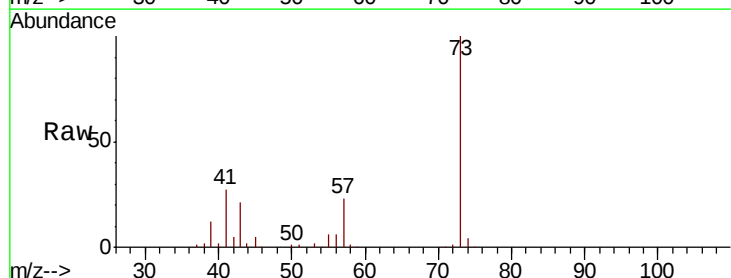
Instrument :
MSVOA_N
ClientSampleId :
MW-306-SRI4

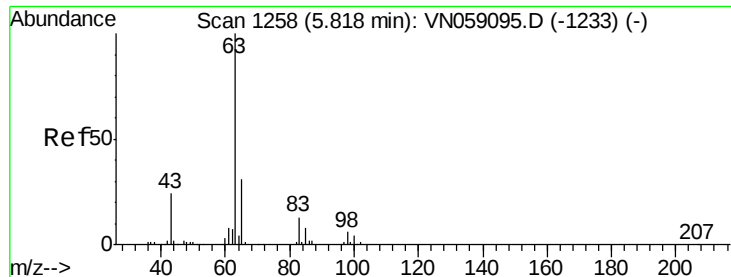
Tot Ion: 43 Resp: 5985
Ion Ratio Lower Upper
43 100
58 25.8 24.9 37.3



#19
Methyl tert-butyl Ether
Concen: 10.784 ug/l
RT: 5.01 min Scan# 1008
Delta R.T. 0.00 min
Lab File: VN059180.D
Acq: 12 Nov 2019 11:26

Tgt Ion: 73 Resp: 143500
Ion Ratio Lower Upper
73 100
57 23.1 18.4 27.6





#24

1,1-Dichloroethane

Concen: 0.271 ug/l

RT: 5.82 min Scan# 1258

Delta R.T. 0.00 min

Lab File: VN059180.D

Acq: 12 Nov 2019 11:26

Instrument :

MSVOA_N

ClientSampleId :

MW-306-SRI4

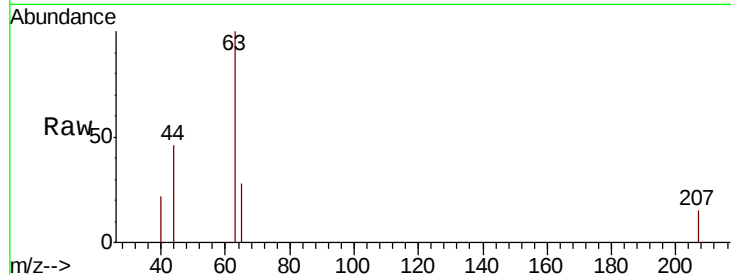
Tot Ion: 63 Resp: 2273

Ion Ratio Lower Upper

63 100

98 0.0 2.8 8.4#

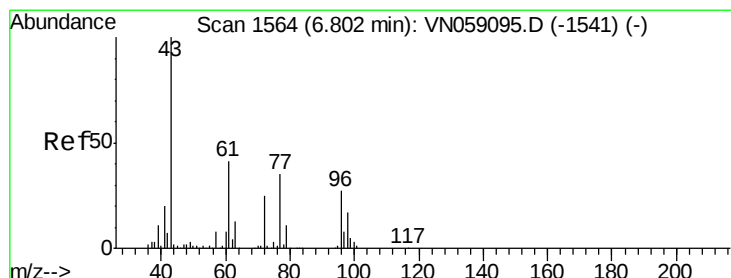
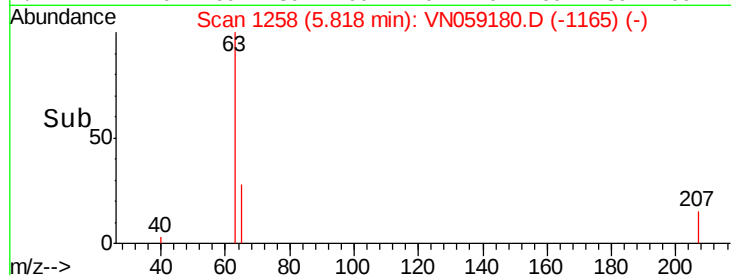
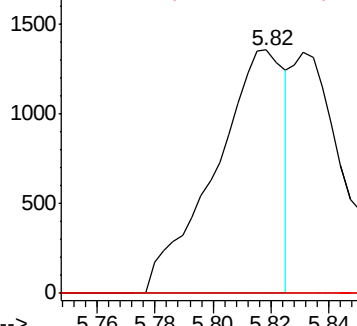
100 0.0 1.9 5.7#



Abundance Ion 62.90 (62.60 to 63.60): VN059180.D (-1165) (-)

Ion 97.90 (97.60 to 98.60): VN059180.D (-1165) (-)

Ion 99.90 (99.60 to 100.60): VN059180.D (-1165) (-)



#27

cis-1,2-Dichloroethene

Concen: 1.468 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. 0.00 min

Lab File: VN059180.D

Acq: 12 Nov 2019 11:26

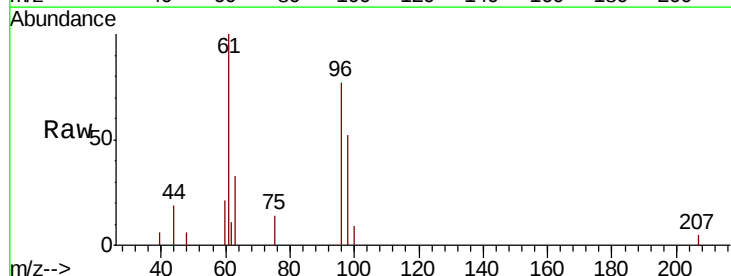
Tgt Ion: 96 Resp: 7066

Ion Ratio Lower Upper

96 100

61 132.6 0.0 311.6

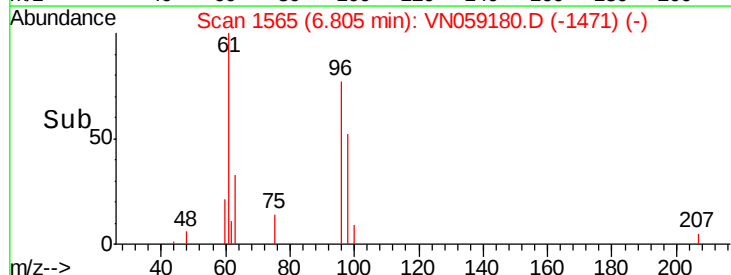
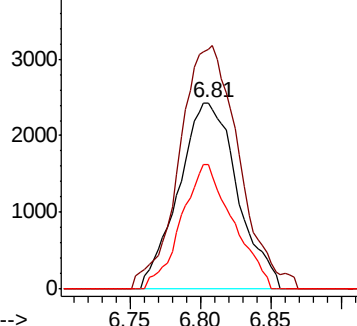
98 58.8 0.0 129.8

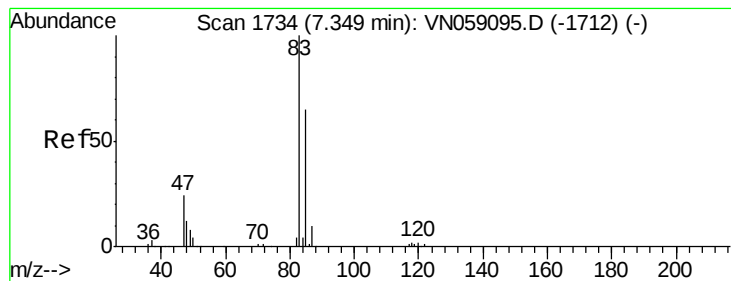


Abundance Ion 95.90 (95.60 to 96.60): VN059180.D (-1471) (-)

Ion 60.90 (60.60 to 61.60): VN059180.D (-1471) (-)

Ion 97.90 (97.60 to 98.60): VN059180.D (-1471) (-)





#30

Chloroform

Concen: 1.050 ug/l

RT: 7.35 min Scan# 1734

Delta R.T. 0.00 min

Lab File: VN059180.D

Acq: 12 Nov 2019 11:26

Instrument :

MSVOA_N

ClientSampleId :

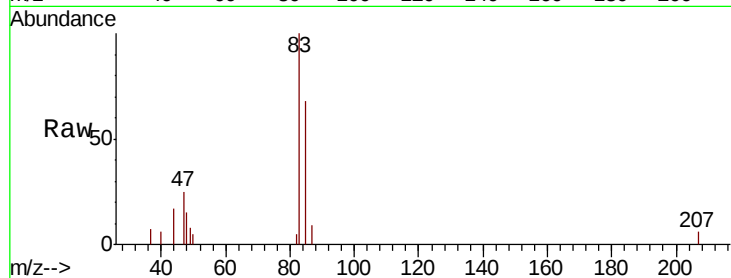
MW-306-SRI4

Tot Ion: 83 Resp: 8438

Ion Ratio Lower Upper

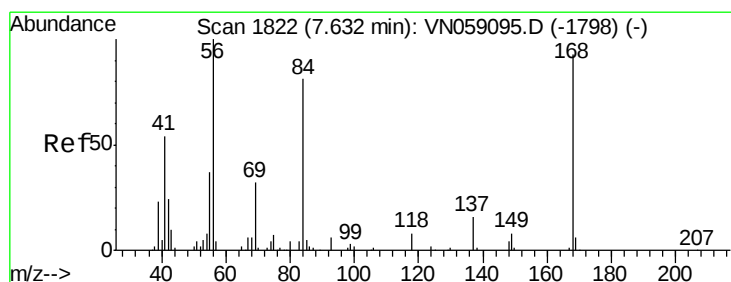
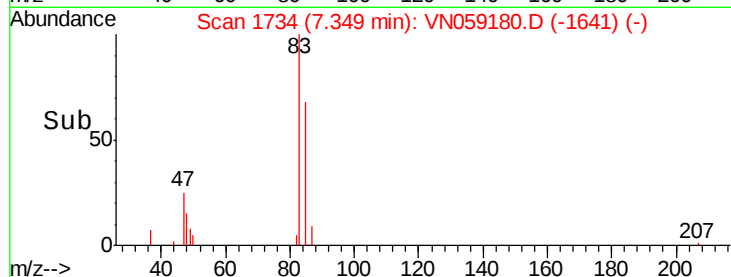
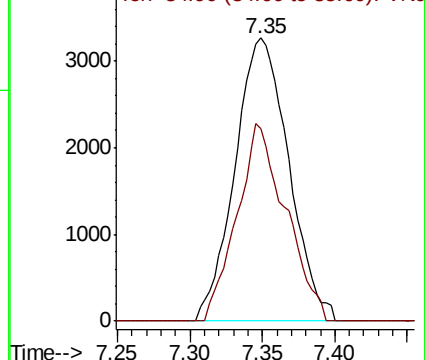
83 100

85 68.1 51.8 77.8



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0



#31

Cyclohexane

Concen: 1.169 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.02 min

Lab File: VN059180.D

Acq: 12 Nov 2019 11:26

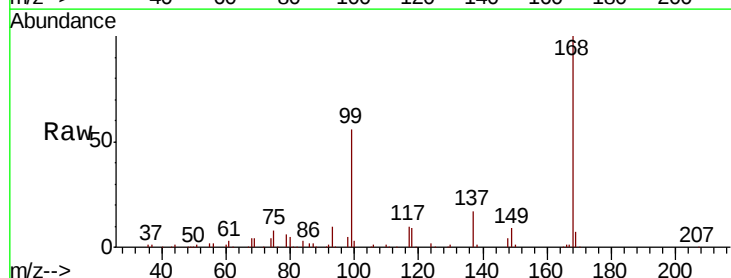
Tgt Ion: 56 Resp: 9267

Ion Ratio Lower Upper

56 100

69 165.3 25.8 38.8#

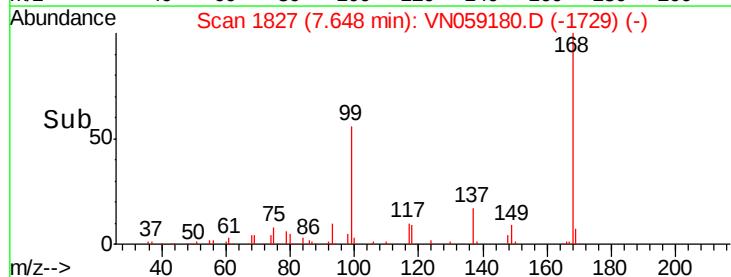
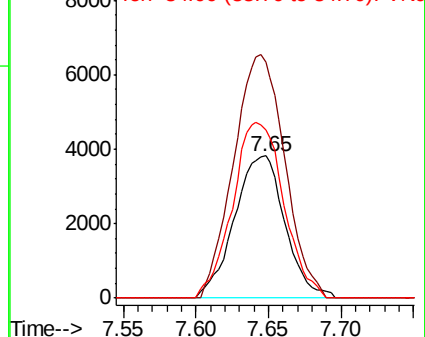
84 118.1 65.0 97.4#

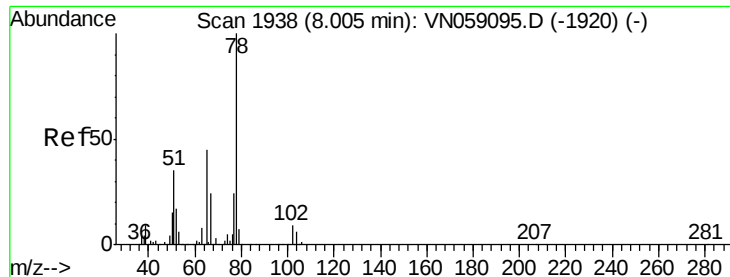


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0





#33

1,2-Dichloroethane-d4

Concen: 53.607 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. 0.00 min

Lab File: VN059180.D

Acq: 12 Nov 2019 11:26

Instrument :

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ClientSampleId :

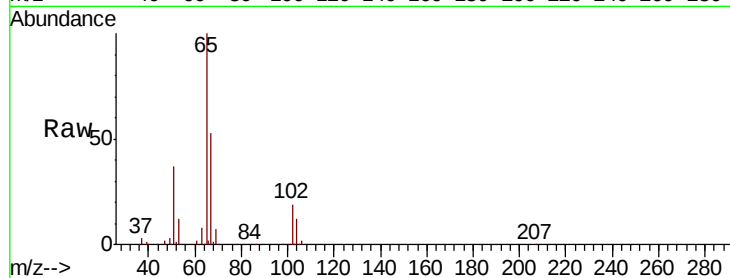
MW-306-SRI4

Tot Ion: 65 Resp: 273025

Ion Ratio Lower Upper

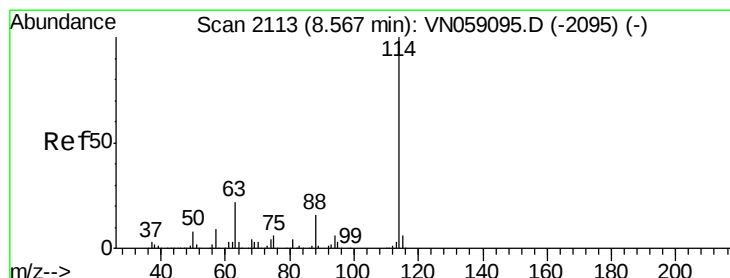
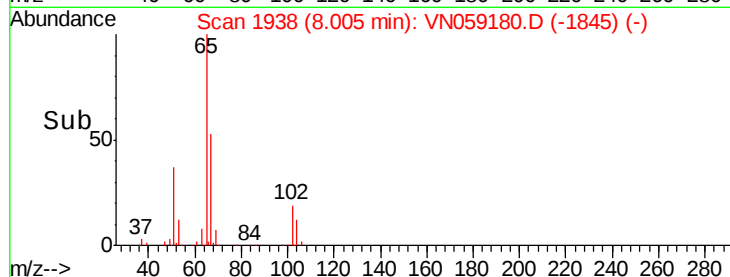
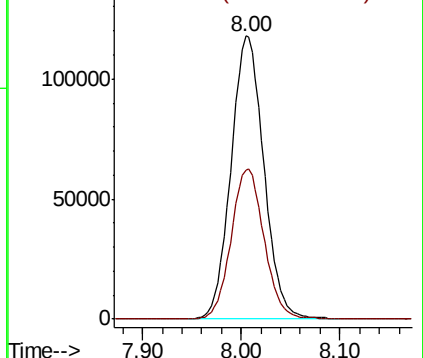
65 100

67 53.2 0.0 107.4



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: 8.57 min Scan# 2113

Delta R.T. 0.00 min

Lab File: VN059180.D

Acq: 12 Nov 2019 11:26

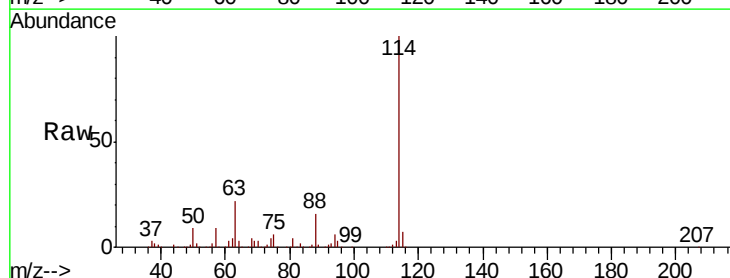
Tgt Ion: 114 Resp: 645757

Ion Ratio Lower Upper

114 100

63 22.0 0.0 43.4

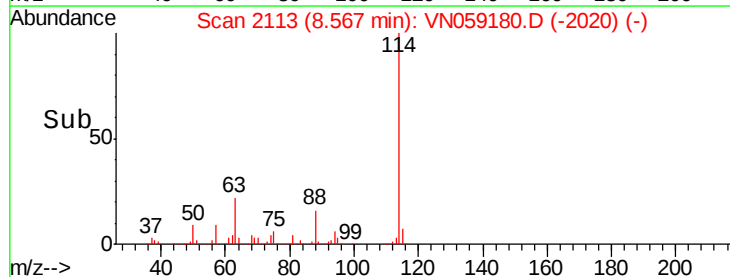
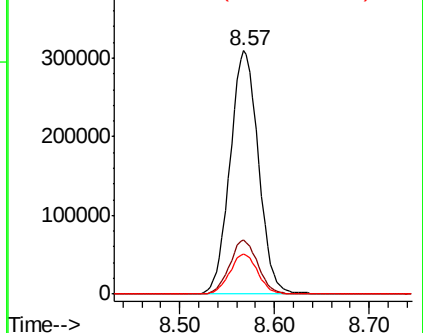
88 16.3 0.0 32.2

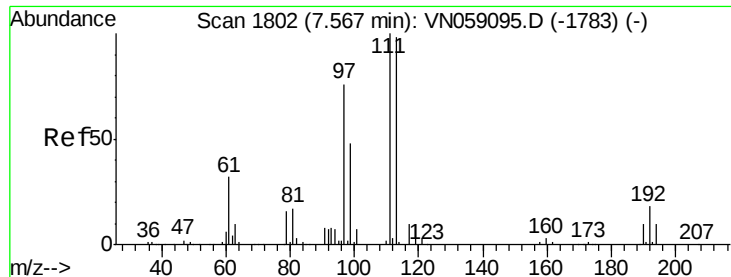


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0

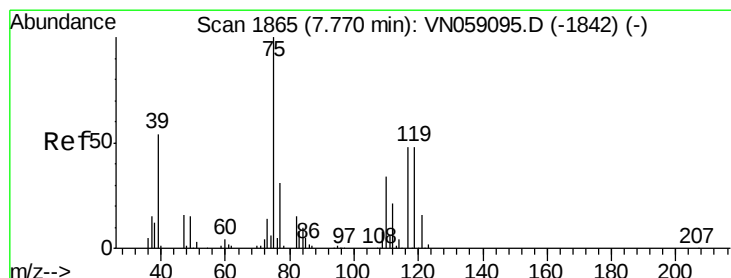
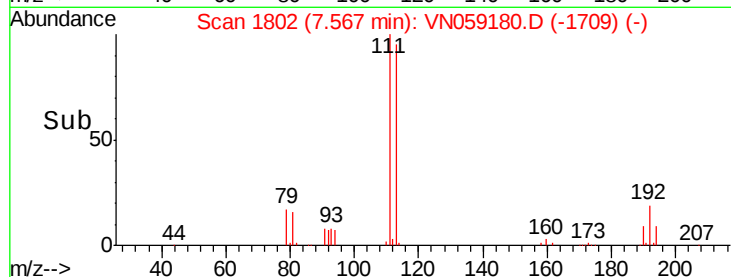
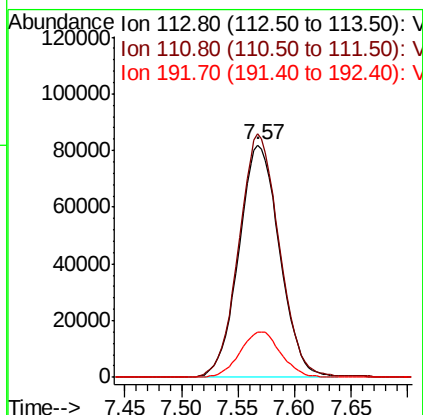
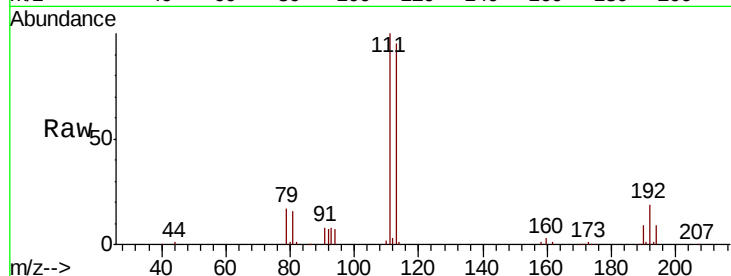




#35
Dibromofluoromethane
Concen: 53.315 ug/l
RT: 7.57 min Scan# 1802
Delta R.T. 0.00 min
Lab File: VN059180.D
Acq: 12 Nov 2019 11:26

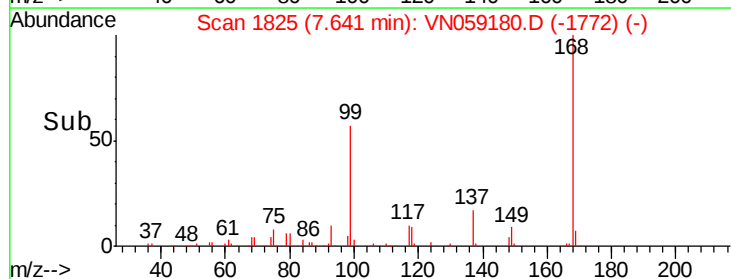
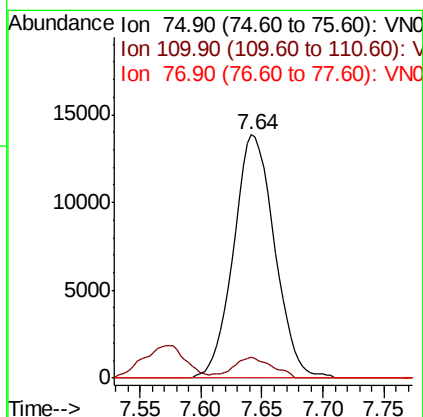
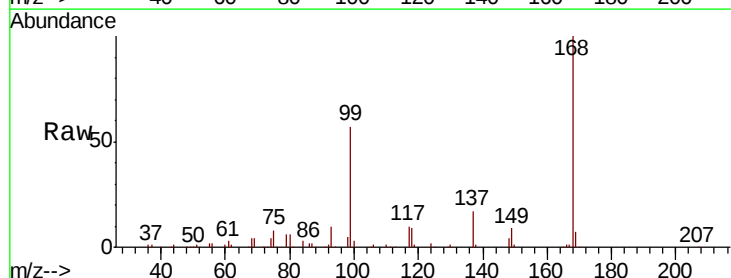
Instrument :
MSVOA_N
ClientSampleId :
MW-306-SRI4

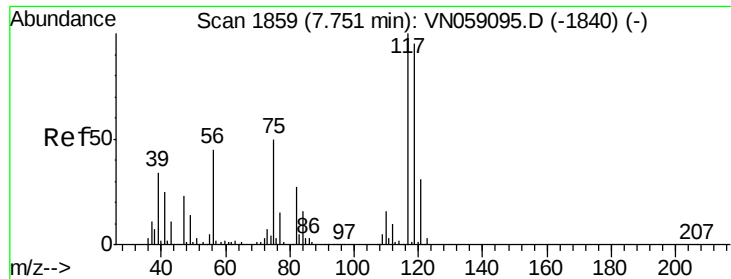
Tot Ion:113 Resp: 205572
Ion Ratio Lower Upper
113 100
111 104.3 82.8 124.2
192 19.6 16.1 24.1



#36
1,1-Dichloropropene
Concen: 5.354 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.13 min
Lab File: VN059180.D
Acq: 12 Nov 2019 11:26

Tgt Ion: 75 Resp: 32314
Ion Ratio Lower Upper
75 100
110 8.2 17.1 51.2#
77 0.0 24.8 37.2#





#38

Carbon Tetrachloride

Concen: 6.548 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN059180.D

Acq: 12 Nov 2019 11:26

Instrument :

MSVOA_N

ClientSampleId :

MW-306-SRI4

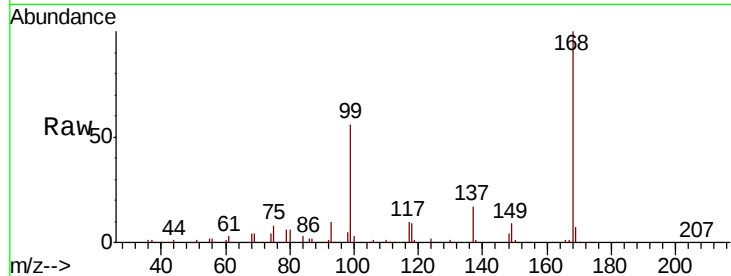
Tot Ion:117 Resp: 39338

Ion Ratio Lower Upper

117 100

119 5.7 75.6 113.4#

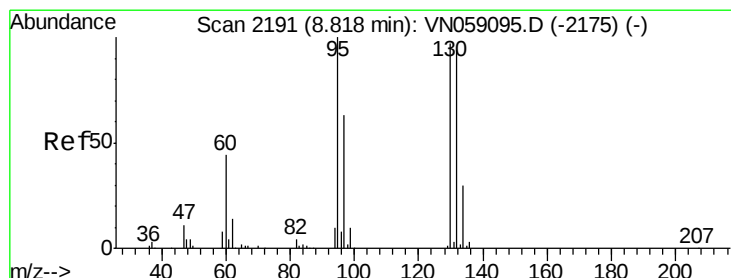
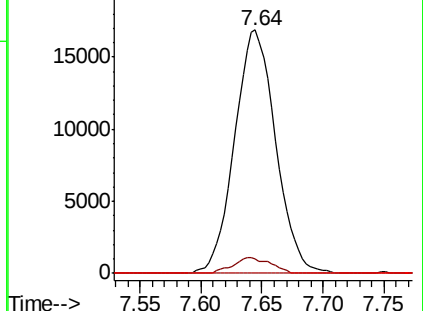
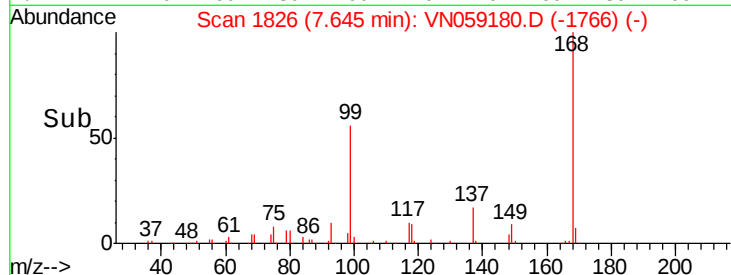
121 0.0 24.6 36.8#



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: 16.065 ug/l

RT: 8.82 min Scan# 2191

Delta R.T. 0.00 min

Lab File: VN059180.D

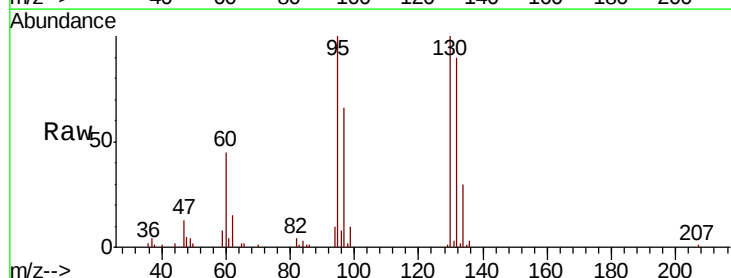
Acq: 12 Nov 2019 11:26

Tgt Ion:130 Resp: 71778

Ion Ratio Lower Upper

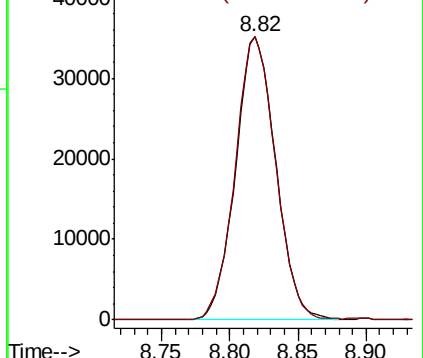
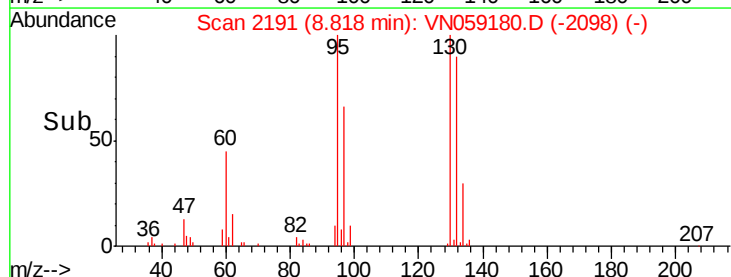
130 100

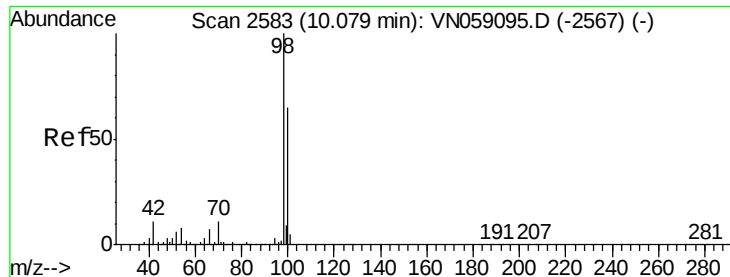
95 100.0 0.0 206.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN0





#50

Toluene-d8

Concen: 51.558 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN059180.D

Acq: 12 Nov 2019 11:26

Instrument :

MSVOA_N

ClientSampleId :

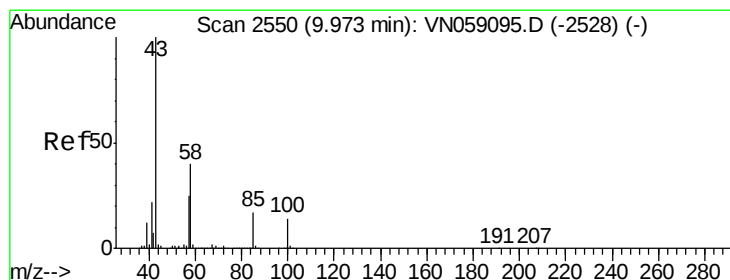
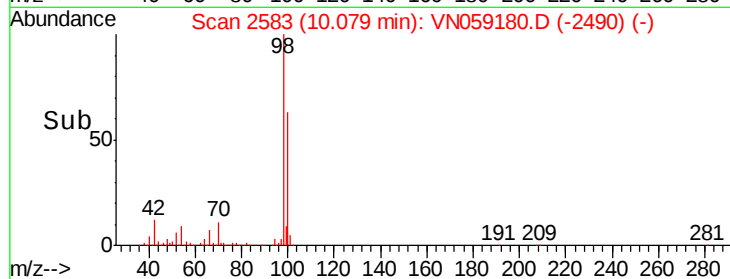
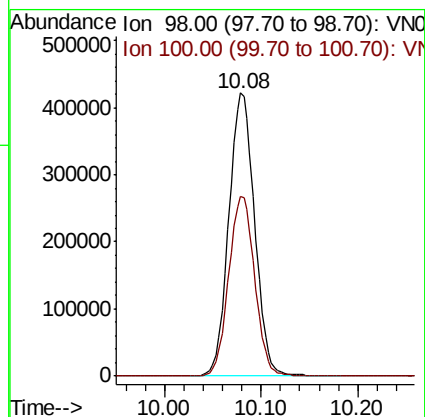
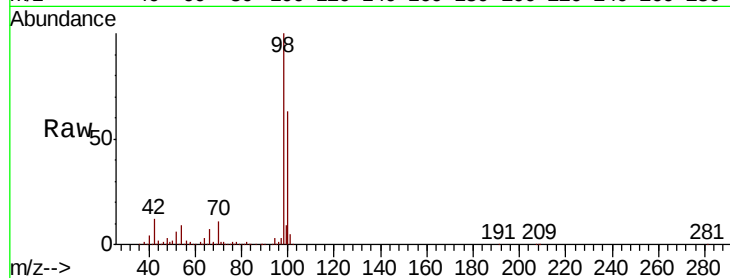
MW-306-SRI4

Tot Ion: 98 Resp: 783045

Ion Ratio Lower Upper

98 100

100 64.0 52.2 78.2



#51

4-Methyl-2-Pentanone

Concen: 0.598 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.11 min

Lab File: VN059180.D

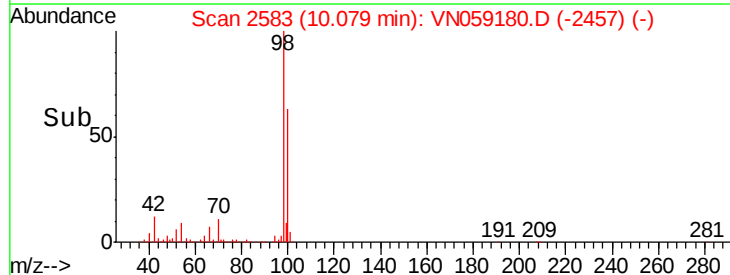
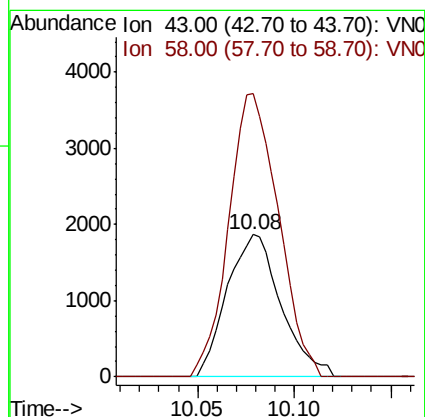
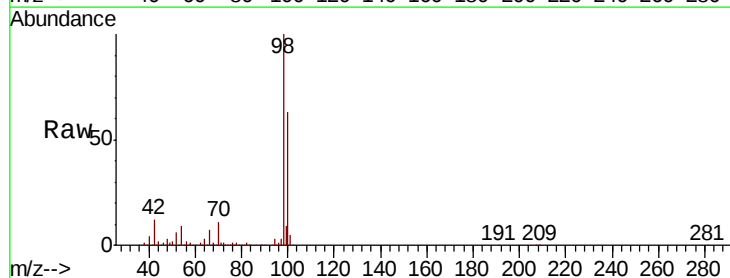
Acq: 12 Nov 2019 11:26

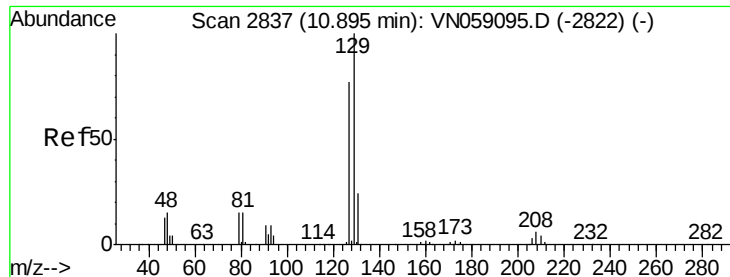
Tgt Ion: 43 Resp: 3625

Ion Ratio Lower Upper

43 100

58 182.9 31.5 47.3#





#60

Dibromochloromethane

Concen: 9.709 ug/l

RT: 10.62 min Scan# 2752

Delta R.T. -0.27 min

Lab File: VN059180.D

Acq: 12 Nov 2019 11:26

Instrument :

MSVOA_N

ClientSampleId :

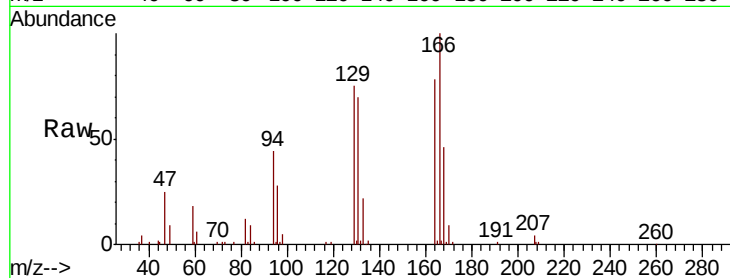
MW-306-SRI4

Tot Ion:129 Resp: 45258

Ion Ratio Lower Upper

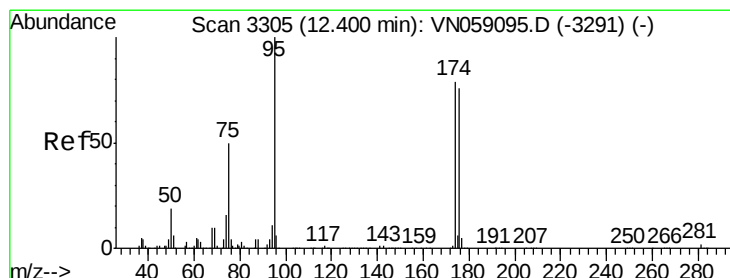
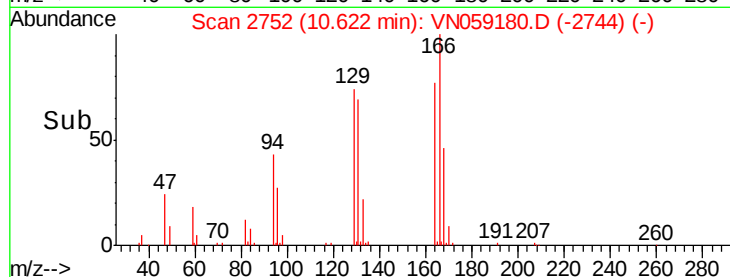
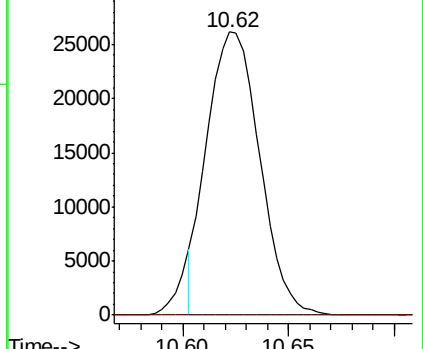
129 100

127 0.0 38.6 115.8#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 43.392 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN059180.D

Acq: 12 Nov 2019 11:26

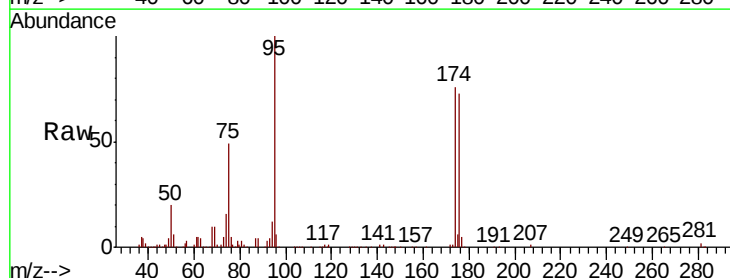
Tgt Ion: 95 Resp: 237620

Ion Ratio Lower Upper

95 100

174 78.6 0.0 158.2

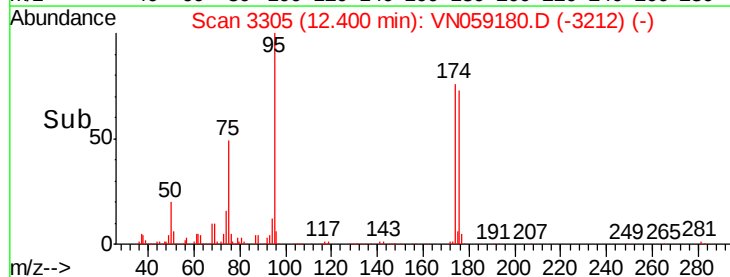
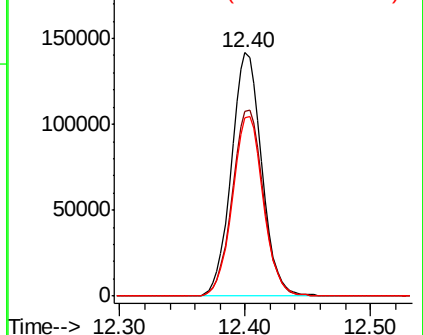
176 75.3 0.0 151.8

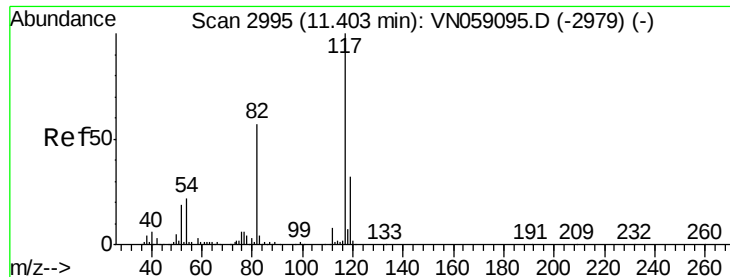


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

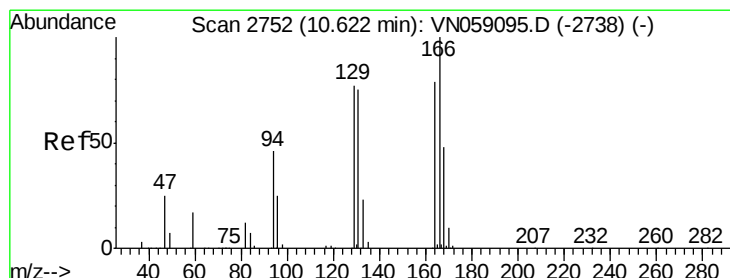
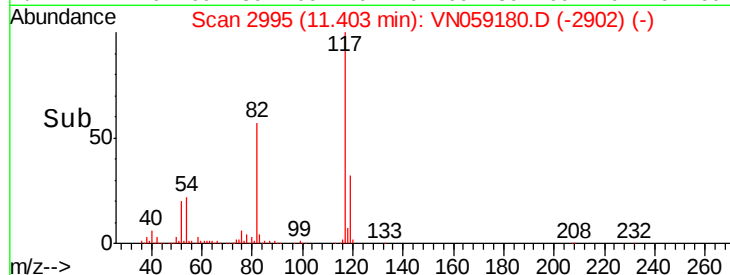
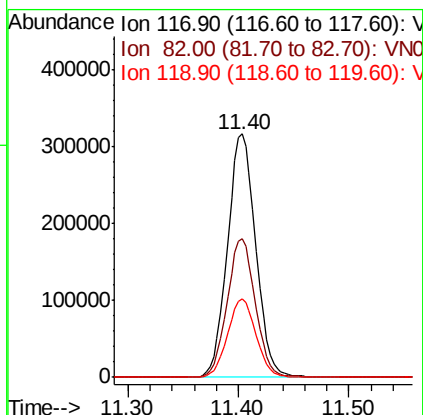
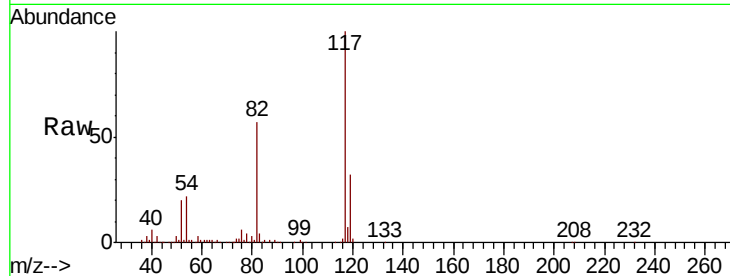




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. 0.00 min
Lab File: VN059180.D
Acq: 12 Nov 2019 11:26

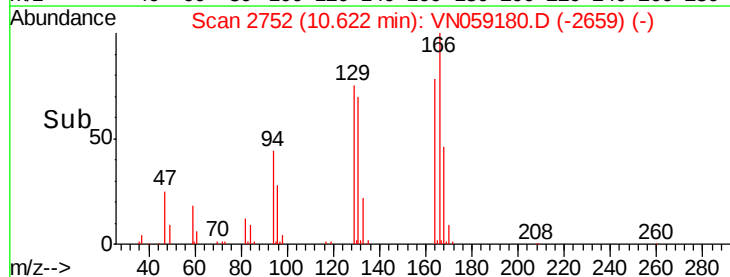
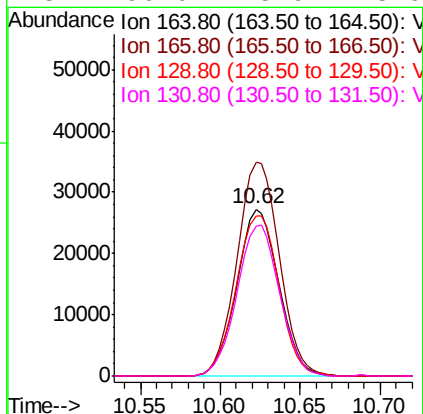
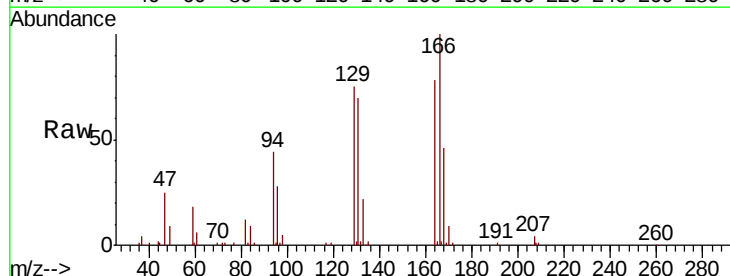
Instrument :
MSVOA_N
ClientSampleId :
MW-306-SRI4

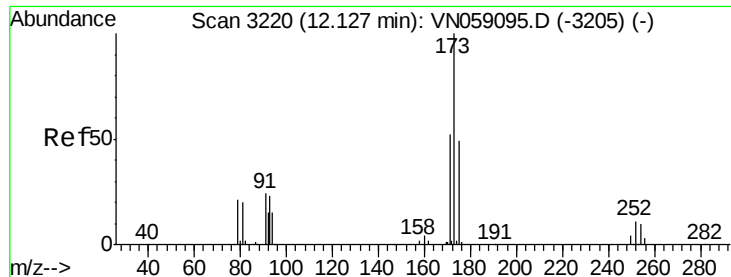
Tot Ion:117 Resp: 563183
Ion Ratio Lower Upper
117 100
82 56.9 45.8 68.8
119 32.0 25.8 38.6



#64
Tetrachloroethene
Concen: 12.694 ug/l
RT: 10.62 min Scan# 2752
Delta R.T. 0.00 min
Lab File: VN059180.D
Acq: 12 Nov 2019 11:26

Tgt Ion:164 Resp: 48613
Ion Ratio Lower Upper
164 100
166 128.0 101.5 152.3
129 96.0 78.3 117.5
131 90.0 75.9 113.9





#71

Bromoform

Concen: 0.441 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN059180.D

Acq: 12 Nov 2019 11:26

Instrument :

MSVOA_N

ClientSampled :

MW-306-SRI4

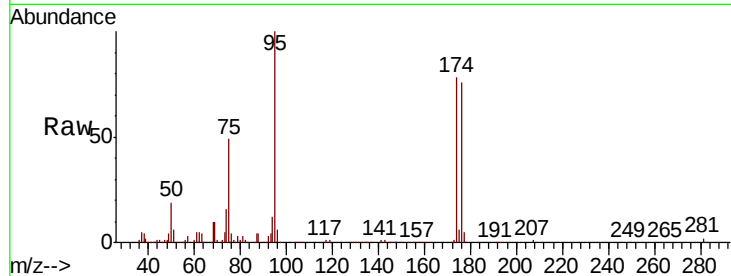
Tot Ion:173 Resp: 1412

Ion Ratio Lower Upper

173 100

175 844.3 24.2 72.6#

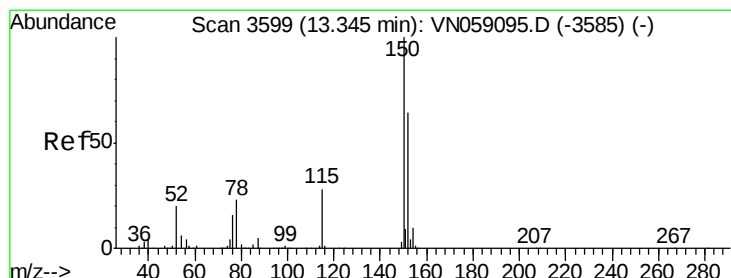
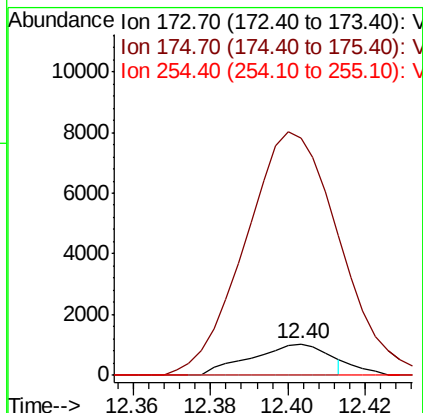
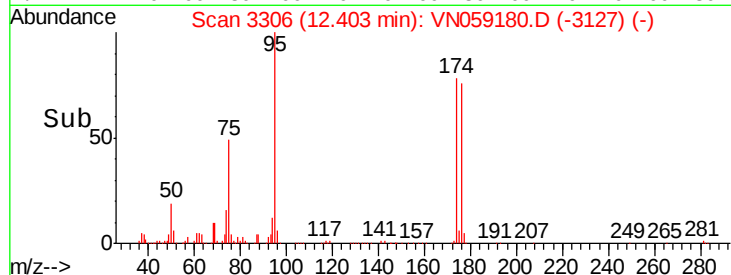
254 0.0 0.1 0.1#



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: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN059180.D

Acq: 12 Nov 2019 11:26

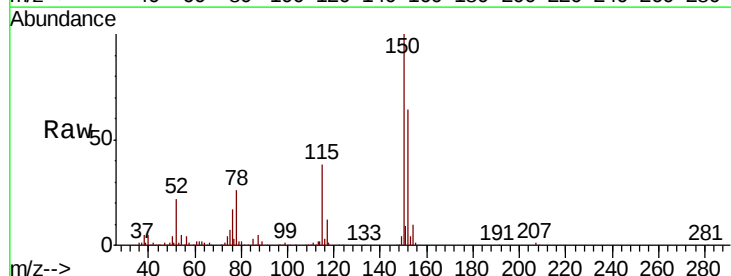
Tgt Ion:152 Resp: 195048

Ion Ratio Lower Upper

152 100

115 59.5 29.4 88.2

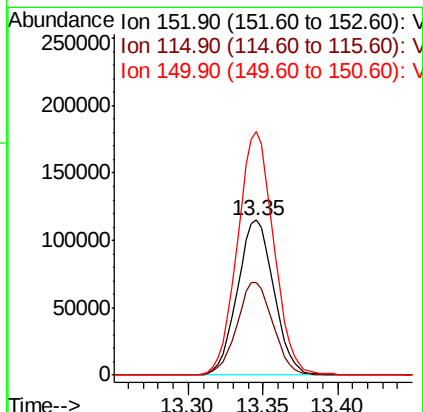
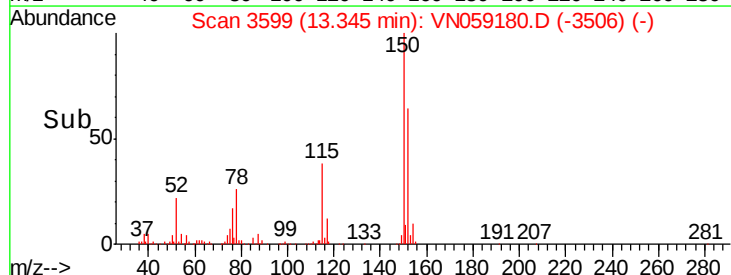
150 156.2 0.0 345.8

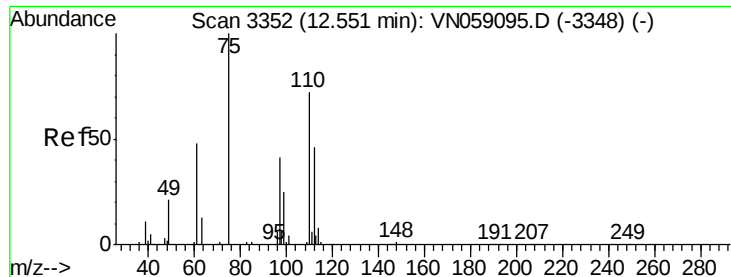


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 27.038 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN059180.D

Acq: 12 Nov 2019 11:26

Instrument :

MSVOA_N

ClientSampleId :

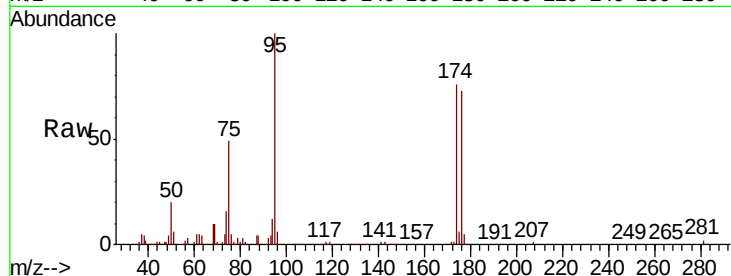
MW-306-SRI4

Tot Ion: 75 Resp: 120065

Ion Ratio Lower Upper

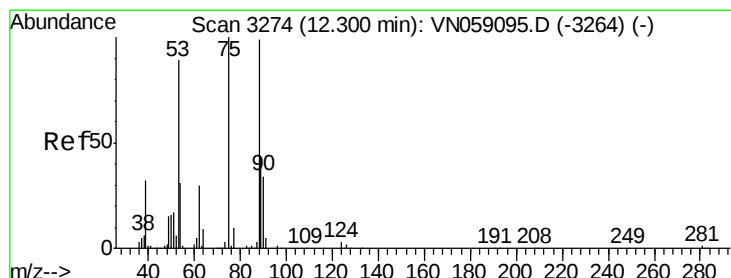
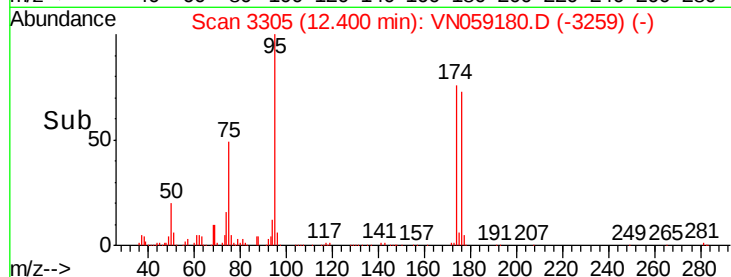
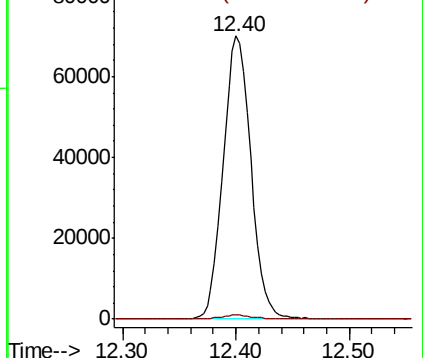
75 100

77 1.6 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: 71.415 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN059180.D

Acq: 12 Nov 2019 11:26

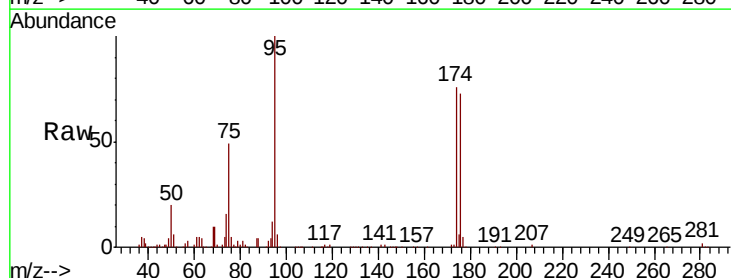
Tgt Ion: 75 Resp: 120065

Ion Ratio Lower Upper

75 100

53 0.0 72.2 108.2#

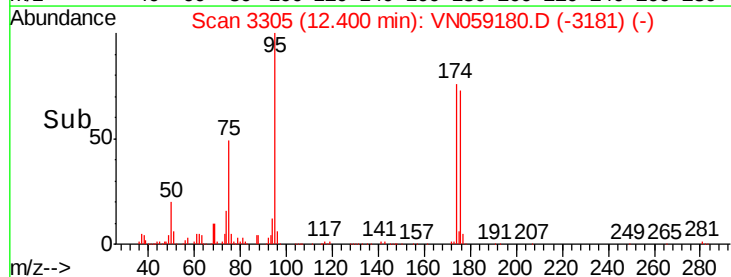
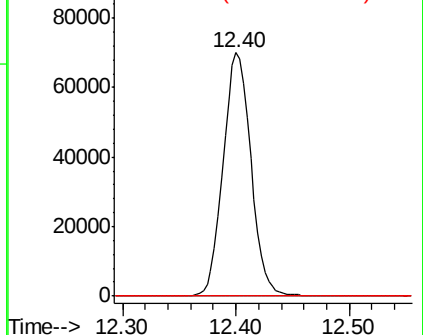
89 0.0 35.8 53.8#

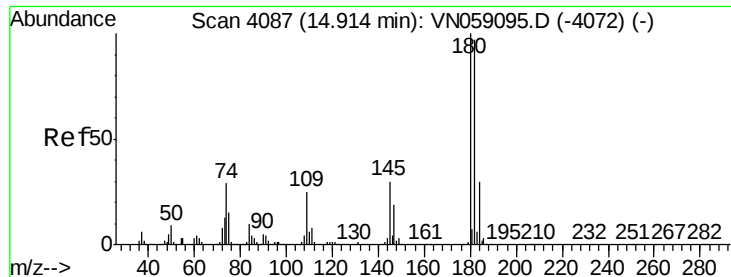


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

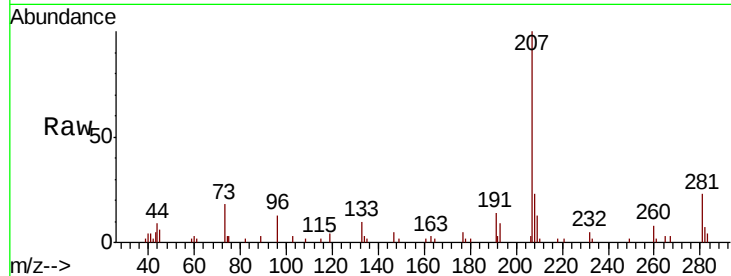




#93
 1,2,4-Trichlorobenzene
 Concen: 3.054 ug/l
 RT: 14.90 min Scan# 4084
 Delta R.T. -0.01 min
 Lab File: VN059180.D
 Acq: 12 Nov 2019 11:26

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-306-SRI4

Tot Ion	Ratio	Lower	Upper
180	100		
182	366.7	48.1	144.3#
145	100.0	15.1	45.3#

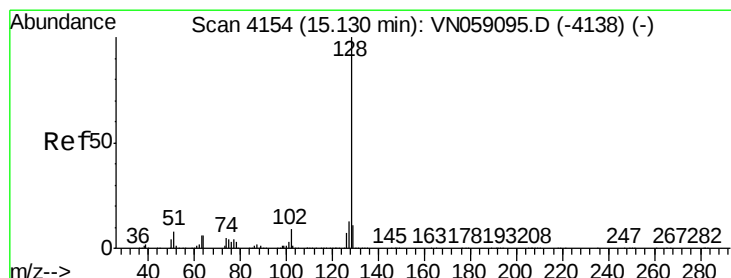
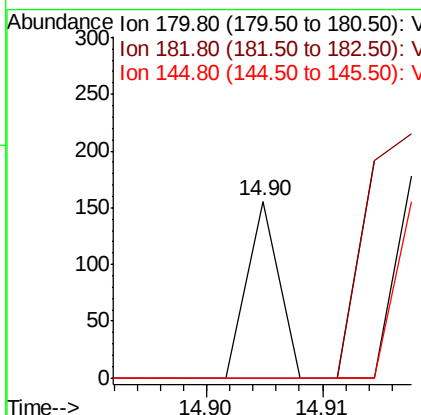
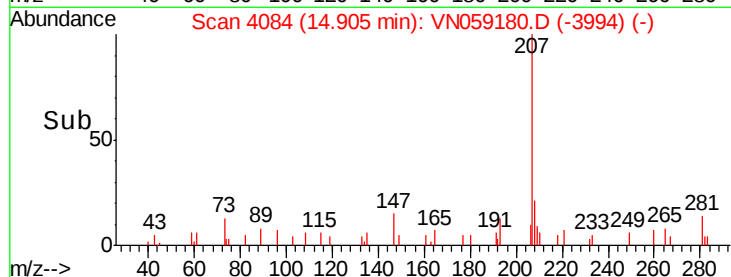


Abundance

Ion 179.80 (179.50 to 180.50): V

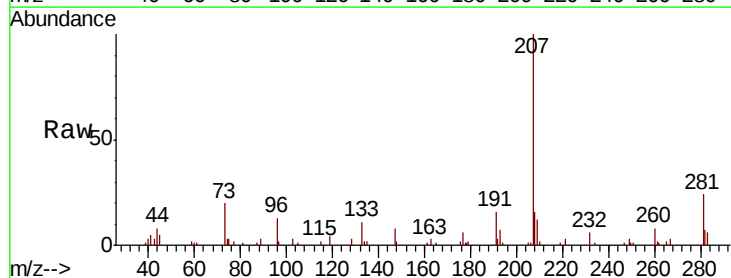
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#95
 Naphthalene
 Concen: 3.115 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN059180.D
 Acq: 12 Nov 2019 11:26

Tgt 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

