

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090420\
 Data File : VN063246.D
 Acq On : 4 Sep 2020 14:37
 Operator : JC/MD
 Sample : L3902-16
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SA-MW186S-20200901

Quant Time: Sep 05 07:30:20 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N083120W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 01 04:21:28 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	255371	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	500252	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	489215	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	193090	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	204339	48.95	ug/l	0.00
Spiked Amount			Recovery	=	97.90%	
35) Dibromofluoromethane	7.55	113	160852	50.12	ug/l	0.00
Spiked Amount			Recovery	=	100.24%	
50) Toluene-d8	10.06	98	637848	51.64	ug/l	0.00
Spiked Amount			Recovery	=	103.28%	
62) 4-Bromofluorobenzene	12.38	95	211343	48.91	ug/l	0.00
Spiked Amount			Recovery	=	97.82%	

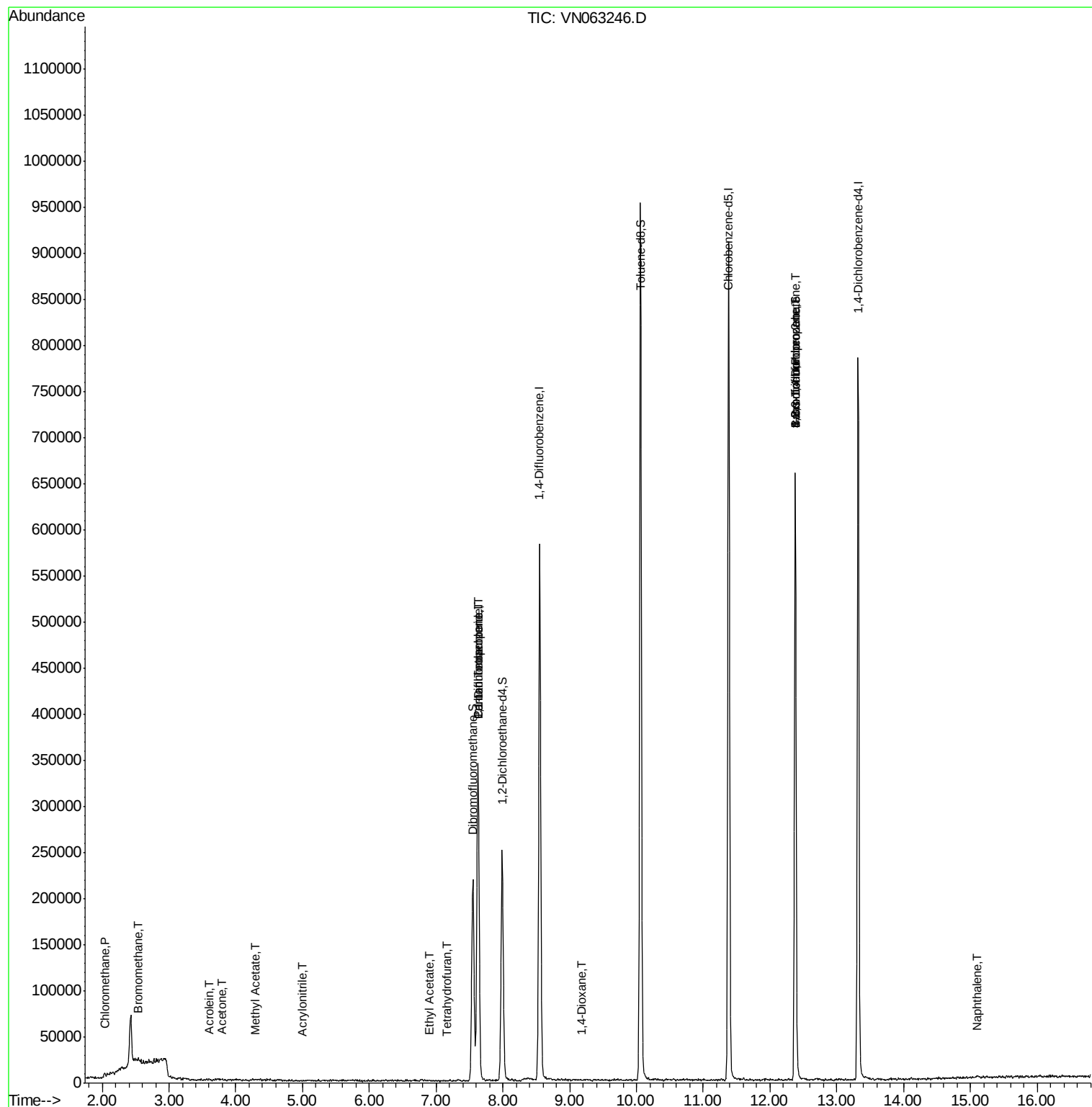
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	877	0.239	ug/l #	50
5) Bromomethane	2.53	94	1230	0.361	ug/l	88
7) Trichlorofluoromethane	2.82	101	30	Below Cal	#	19
13) Acrolein	3.61	56	113	16.312	ug/l #	15
15) Acrylonitrile	5.00	53	62	2.447	ug/l #	11
16) Acetone	3.79	43	668	0.563	ug/l #	51
18) Methyl Acetate	4.29	43	789	0.259	ug/l #	68
20) Methylene Chloride	4.51	84	286	Below Cal	#	40
29) Tetrahydrofuran	7.16	42	385	0.303	ug/l #	34
31) Cyclohexane	7.62	56	7948	Below Cal	#	54
36) 1,1-Dichloropropene	7.63	75	22441	4.666	ug/l #	50
37) Ethyl Acetate	6.89	43	423	0.473	ug/l #	72
38) Carbon Tetrachloride	7.63	117	29534	6.056	ug/l #	16
49) 1,4-Dioxane	9.17	88	69	1.262	ug/l #	1
71) Bromoform	12.37	173	823	0.331	ug/l #	28
76) 1,2,3-Trichloropropane	12.38	75	126350	33.304	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	126350	80.496	ug/l #	10
95) Naphthalene	15.11	128	2566	0.231	ug/l #	79

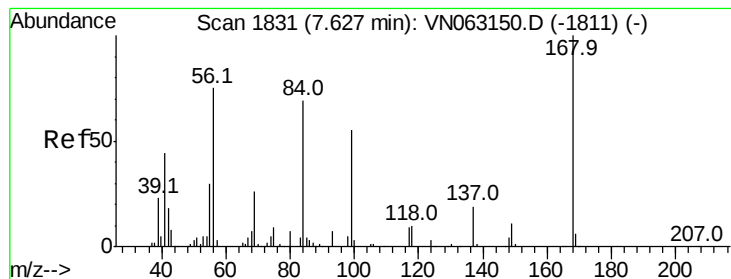
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063246.D

Acq: 4 Sep 2020 14:37

Instrument :

MSVOA_N

ClientSampleId :

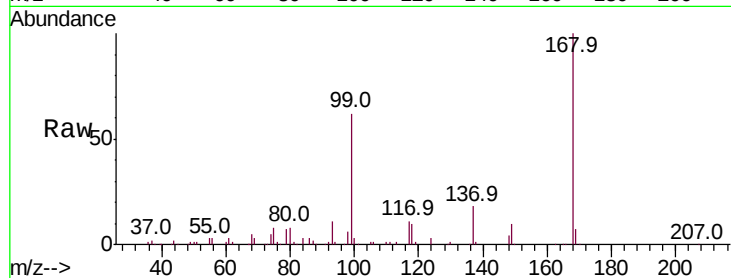
SA-MW186S-20200901

Tot Ion:168 Resp: 255371

Ion Ratio Lower Upper

168 100

99 61.9 54.2 81.2



Abundance Ion 167.90 (167.60 to 168.60): VN063150.D (-1811) (-)

Ion 98.90 (98.60 to 99.60): VN063150.D (-1811) (-)

7.63

120000

100000

80000

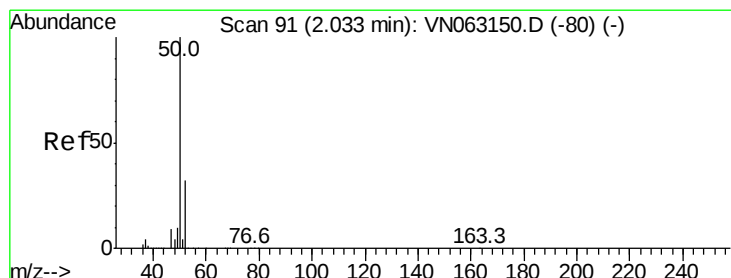
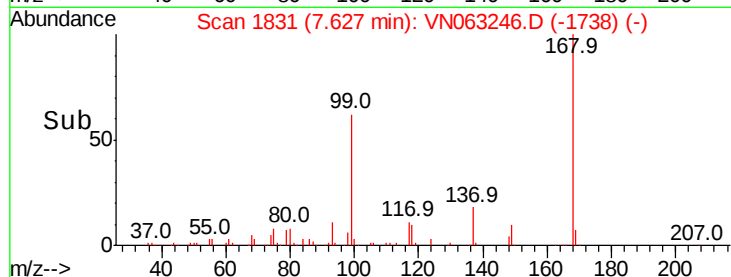
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.239 ug/l

RT: 2.04 min Scan# 94

Delta R.T. 0.01 min

Lab File: VN063246.D

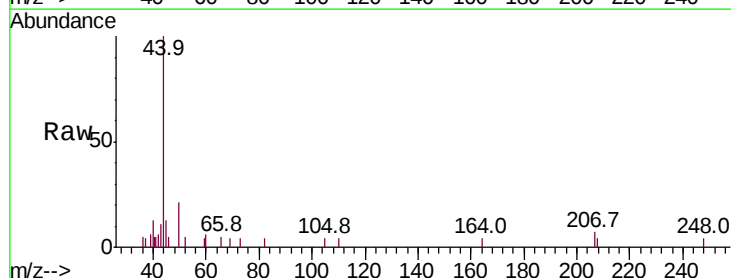
Acq: 4 Sep 2020 14:37

Tgt Ion: 50 Resp: 877

Ion Ratio Lower Upper

50 100

52 4.4 25.8 38.6#



Abundance Ion 49.90 (49.60 to 50.60): VN063150.D (-80) (-)

Ion 51.90 (51.60 to 52.60): VN063150.D (-80) (-)

2.04

1000

800

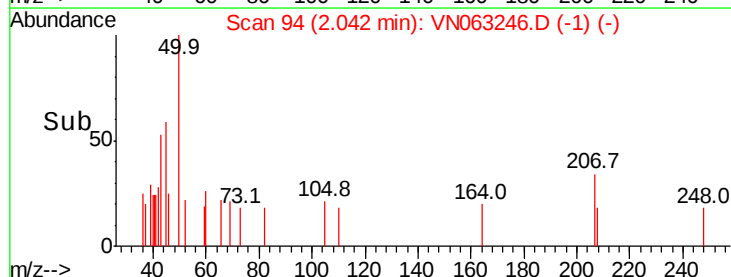
600

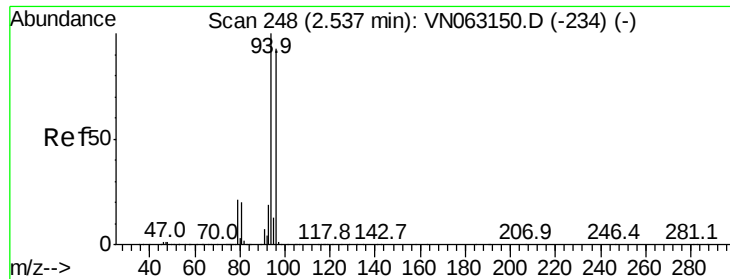
400

200

0

Time-->





#5

Bromomethane

Concen: 0.361 ug/l

RT: 2.53 min Scan# 247

Delta R.T. -0.00 min

Lab File: VN063246.D

Acq: 4 Sep 2020 14:37

Instrument :

MSVOA_N

ClientSampleId :

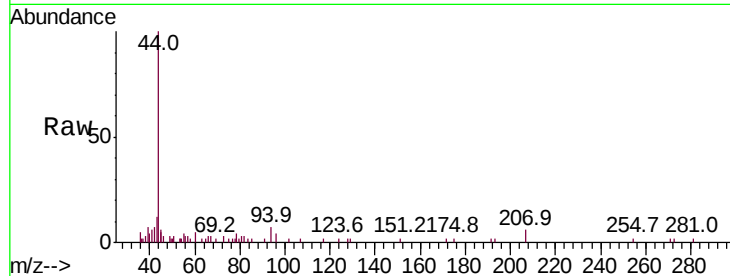
SA-MW186S-20200901

Tot Ion: 94 Resp: 1230

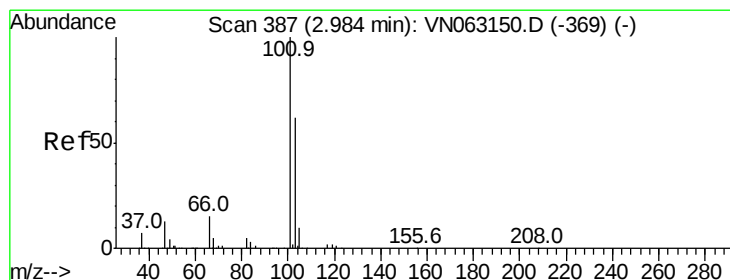
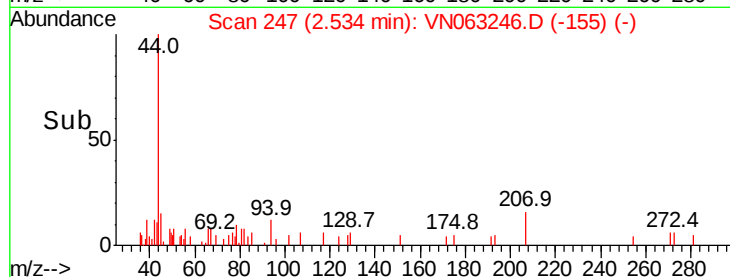
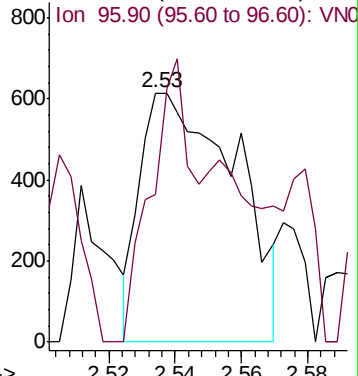
Ion Ratio Lower Upper

94 100

96 81.3 74.4 111.6



Abundance Ion 93.90 (93.60 to 94.60): VN063150.D (-234) (-)



#7

Trichlorofluoromethane

Concen: Below Cal

RT: 2.82 min Scan# 337

Delta R.T. -0.16 min

Lab File: VN063246.D

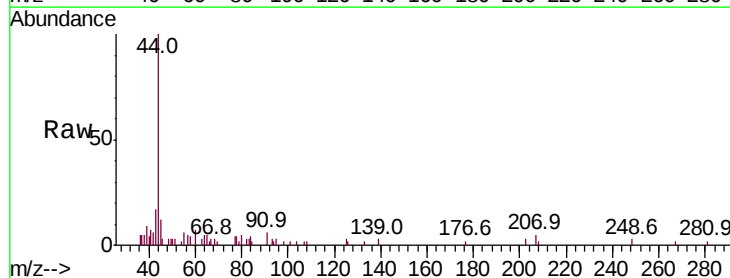
Acq: 4 Sep 2020 14:37

Tgt Ion: 101 Resp: 30

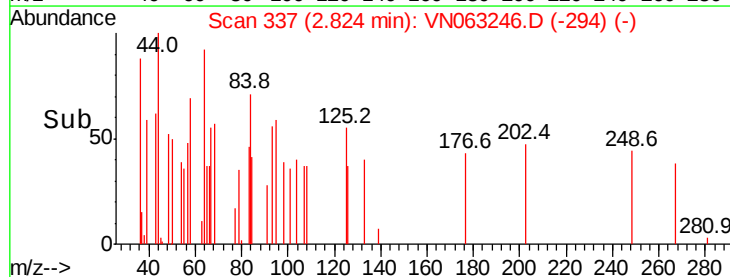
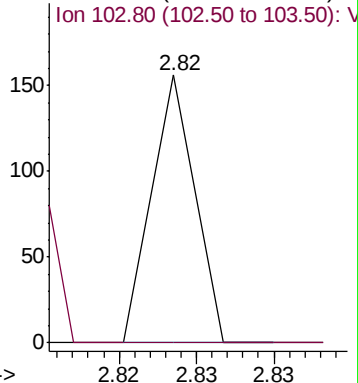
Ion Ratio Lower Upper

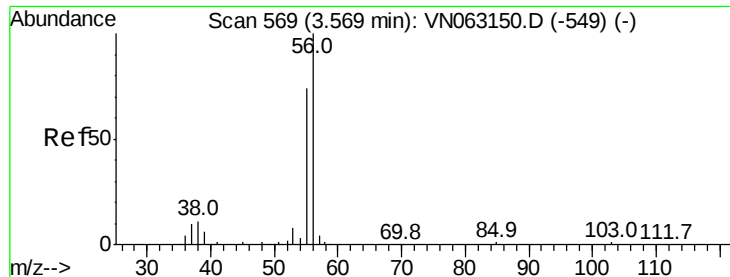
101 100

103 0.0 49.7 74.5#



Abundance Ion 100.90 (100.60 to 101.60): VN063150.D (-369) (-)





#13

Acrolein

Concen: 16.312 ug/l

RT: 3.61 min Scan# 583

Delta R.T. 0.05 min

Lab File: VN063246.D

Acq: 4 Sep 2020 14:37

Instrument :

MSVOA_N

ClientSampleId :

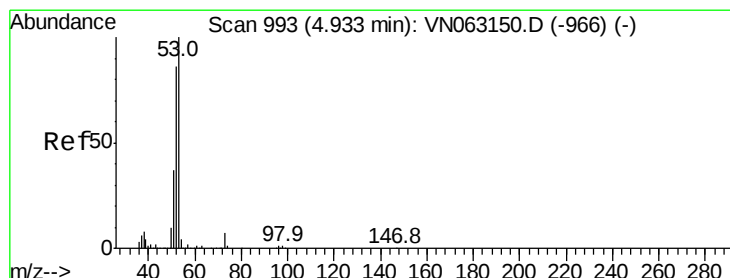
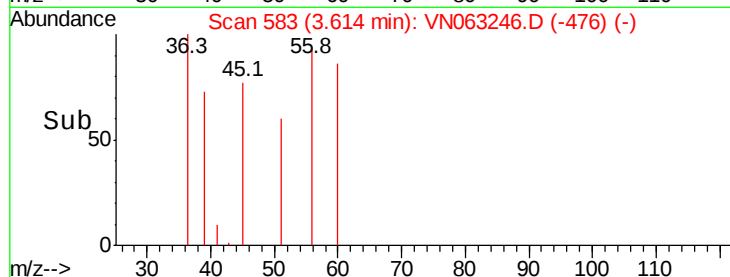
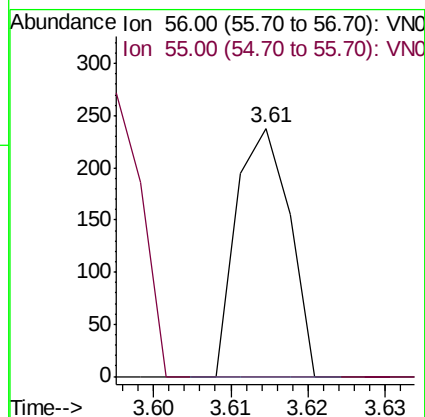
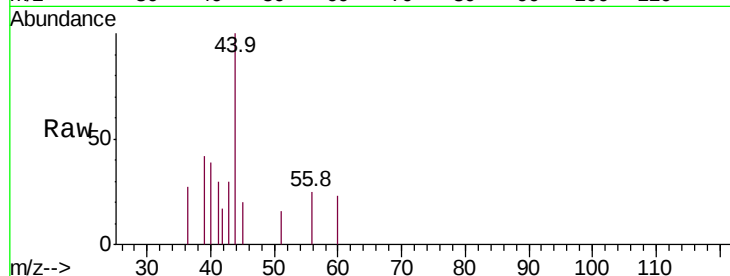
SA-MW186S-20200901

Tot Ion: 56 Resp: 113

Ion Ratio Lower Upper

56 100

55 0.0 55.4 83.0#



#15

Acrylonitrile

Concen: 2.447 ug/l

RT: 5.00 min Scan# 1014

Delta R.T. 0.07 min

Lab File: VN063246.D

Acq: 4 Sep 2020 14:37

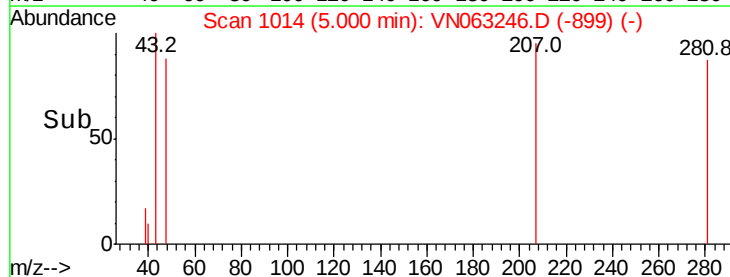
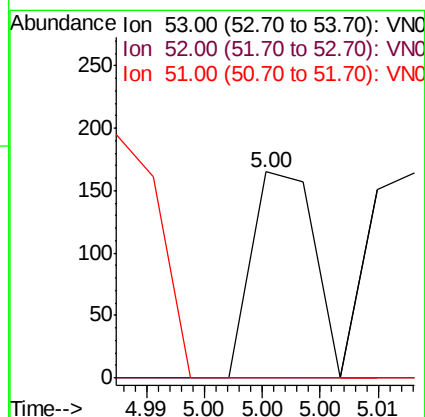
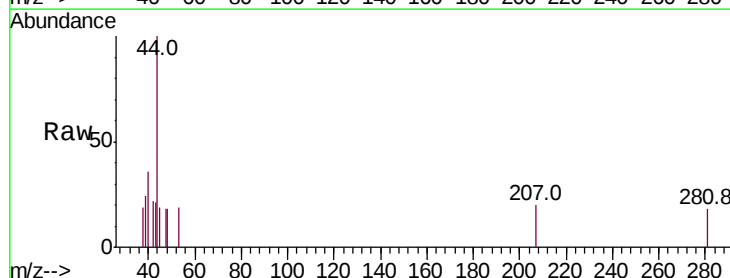
Tgt Ion: 53 Resp: 62

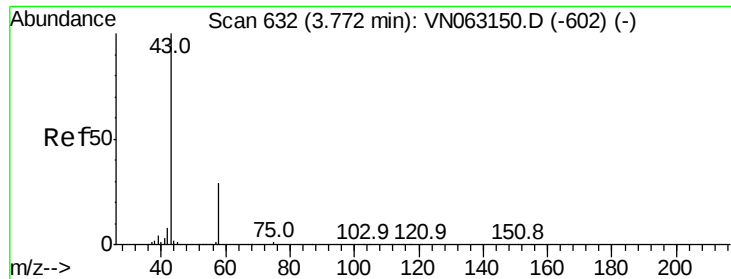
Ion Ratio Lower Upper

53 100

52 111.3 67.2 100.8#

51 169.4 30.2 45.4#





#16

Acetone

Concen: 0.563 ug/l

RT: 3.79 min Scan# 637

Delta R.T. 0.02 min

Lab File: VN063246.D

Acq: 4 Sep 2020 14:37

Instrument :

MSVOA_N

ClientSampleId :

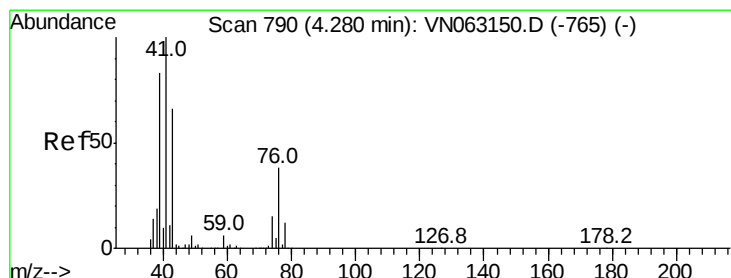
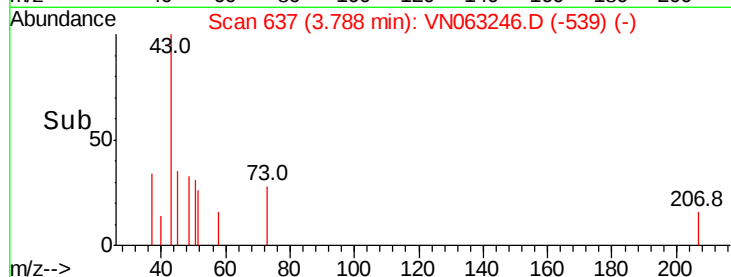
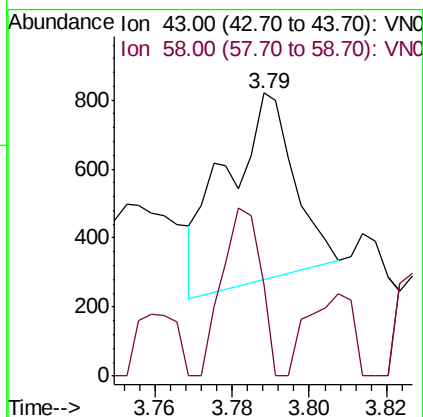
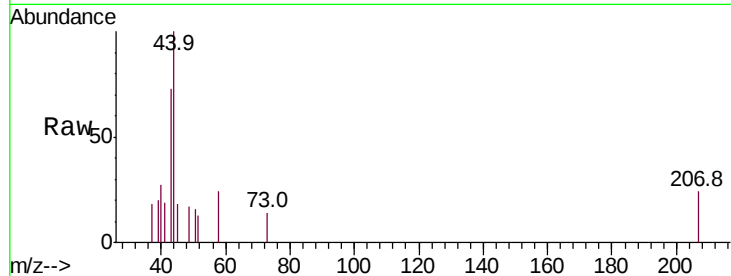
SA-MW186S-20200901

Tot Ion: 43 Resp: 668

Ion Ratio Lower Upper

43 100

58 55.0 23.1 34.7#



#18

Methyl Acetate

Concen: 0.259 ug/l

RT: 4.29 min Scan# 792

Delta R.T. 0.01 min

Lab File: VN063246.D

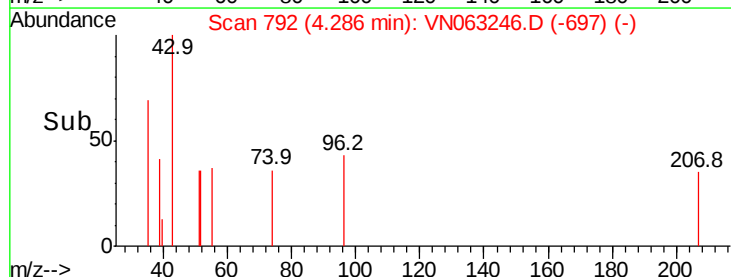
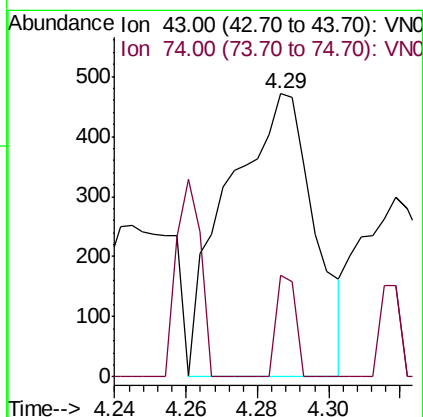
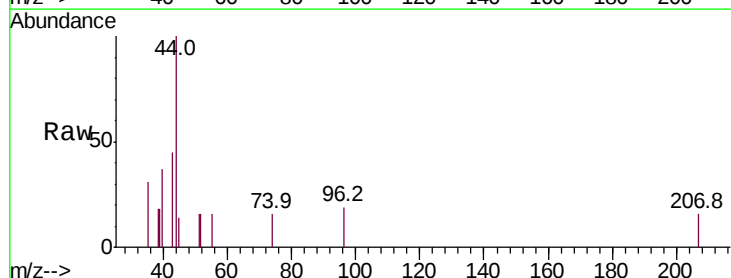
Acq: 4 Sep 2020 14:37

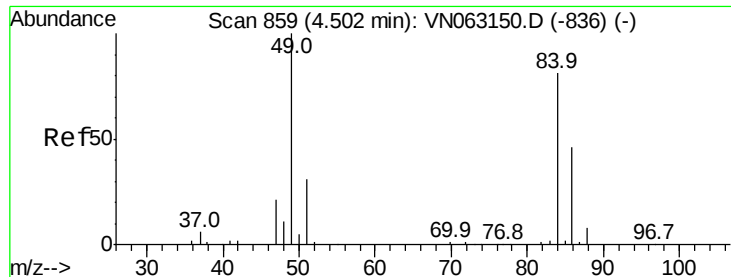
Tgt Ion: 43 Resp: 789

Ion Ratio Lower Upper

43 100

74 8.0 19.0 28.6#





#20

Methylene Chloride

Concen: Below Cal

RT: 4.51 min Scan# 860

Delta R.T. 0.00 min

Lab File: VN063246.D

Acq: 4 Sep 2020 14:37

Instrument :

MSVOA_N

ClientSampleId :

SA-MW186S-20200901

Tot Ion: 84 Resp: 286

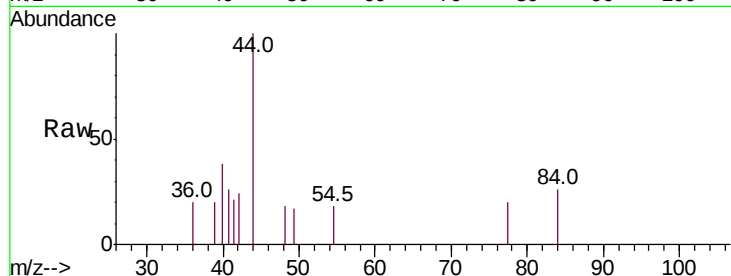
Ion Ratio Lower Upper

84 100

49 66.5 98.4 147.6#

51 0.0 30.4 45.6#

86 0.0 45.7 68.5#

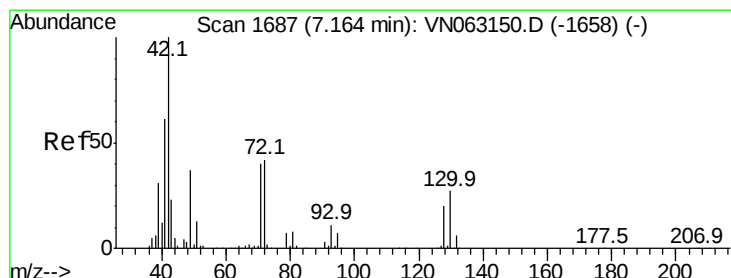
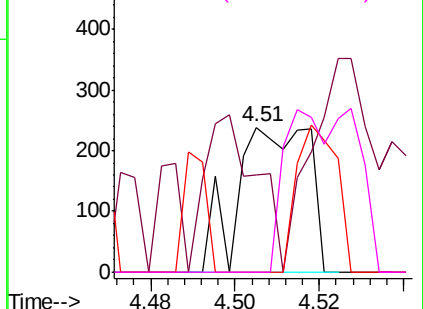
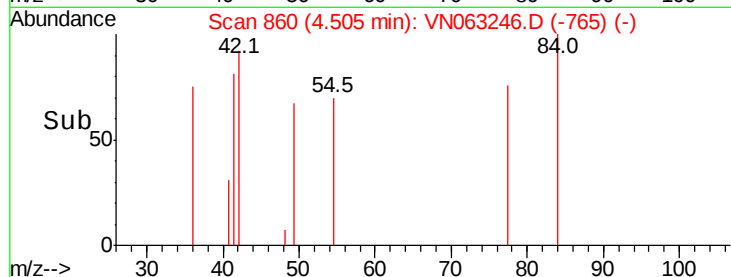


Abundance Ion 83.90 (83.60 to 84.60): VNO

Ion 48.90 (48.60 to 49.60): VNO

Ion 50.90 (50.60 to 51.60): VNO

Ion 85.90 (85.60 to 86.60): VNO



#29

Tetrahydrofuran

Concen: 0.303 ug/l

RT: 7.16 min Scan# 1687

Delta R.T. -0.00 min

Lab File: VN063246.D

Acq: 4 Sep 2020 14:37

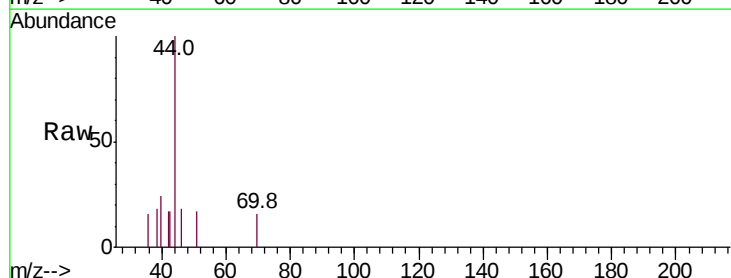
Tgt Ion: 42 Resp: 385

Ion Ratio Lower Upper

42 100

72 0.0 33.9 50.9#

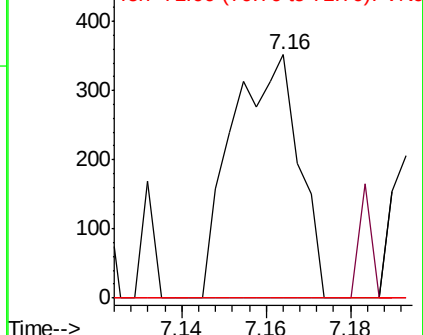
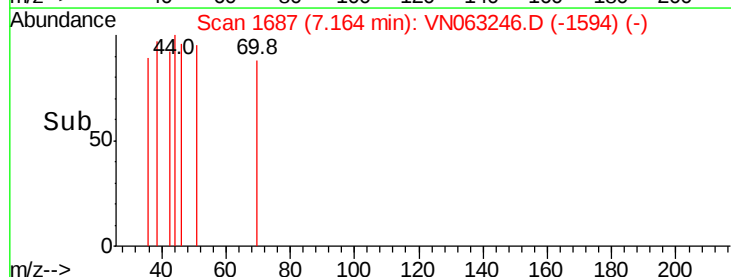
71 0.0 31.9 47.9#

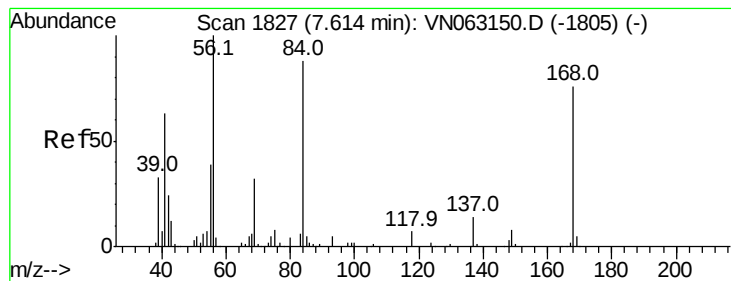


Abundance Ion 42.00 (41.70 to 42.70): VNO

Ion 72.00 (71.70 to 72.70): VNO

Ion 71.00 (70.70 to 71.70): VNO





#31

Cyclohexane

Concen: Below Cal

RT: 7.62 min Scan# 1829

Delta R.T. 0.01 min

Lab File: VN063246.D

Acq: 4 Sep 2020 14:37

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SA-MW186S-20200901

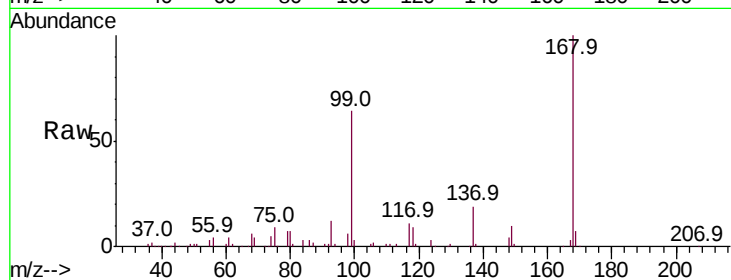
Tot Ion: 56 Resp: 7948

Ion Ratio Lower Upper

56 100

69 105.4 25.4 38.0#

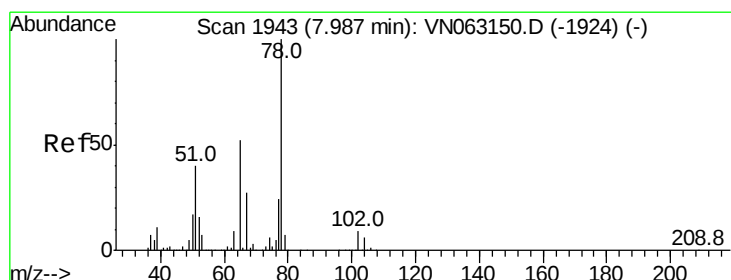
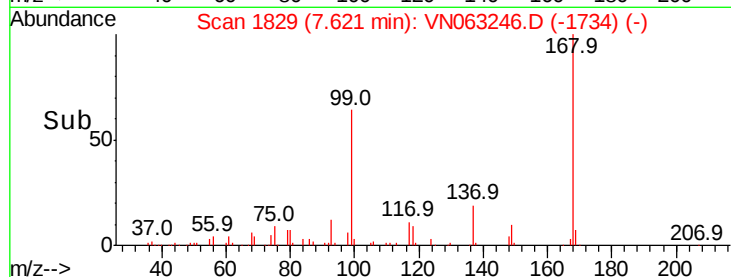
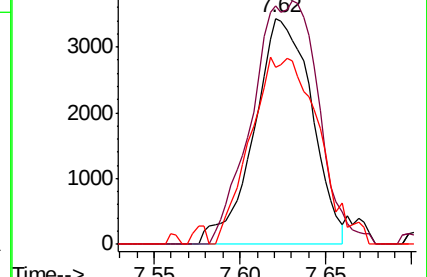
84 73.9 70.2 105.4



Abundance Ion 56.00 (55.70 to 56.70): VN063246.D (-1805) (-)

Ion 69.00 (68.70 to 69.70): VN063246.D (-1805) (-)

Ion 84.00 (83.70 to 84.70): VN063246.D (-1805) (-)



#33

1,2-Dichloroethane-d4

Concen: 48.949 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. -0.00 min

Lab File: VN063246.D

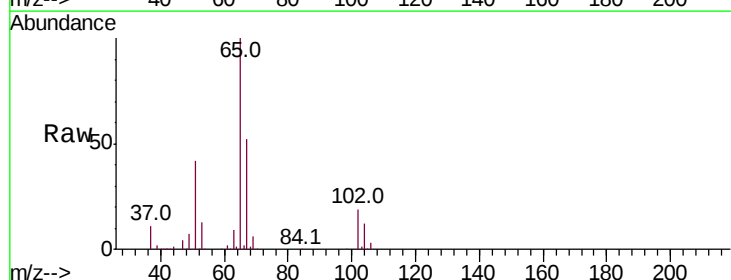
Acq: 4 Sep 2020 14:37

Tgt Ion: 65 Resp: 204339

Ion Ratio Lower Upper

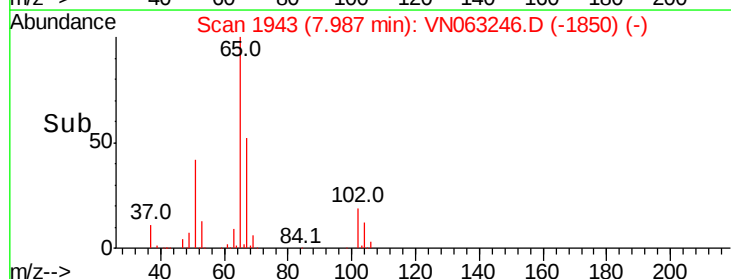
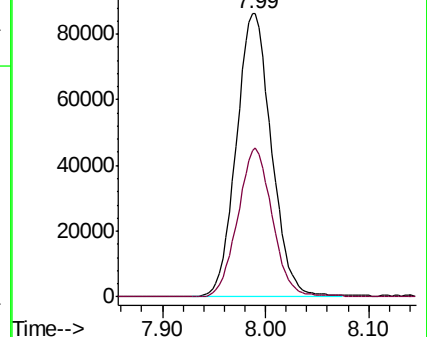
65 100

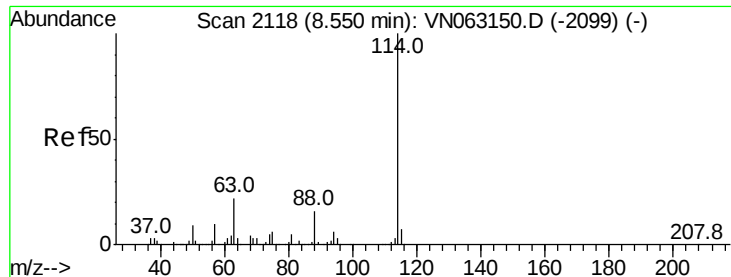
67 51.6 0.0 104.4



Abundance Ion 64.90 (64.60 to 65.60): VN063246.D (-1850) (-)

Ion 66.90 (66.60 to 67.60): VN063246.D (-1850) (-)

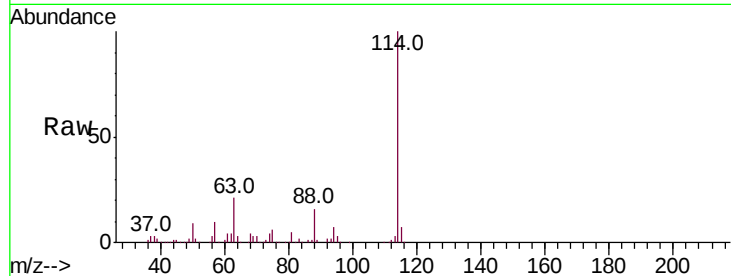




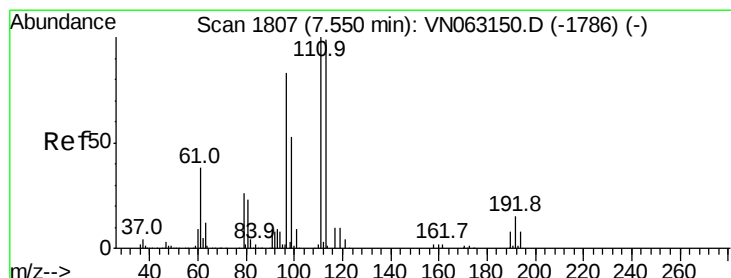
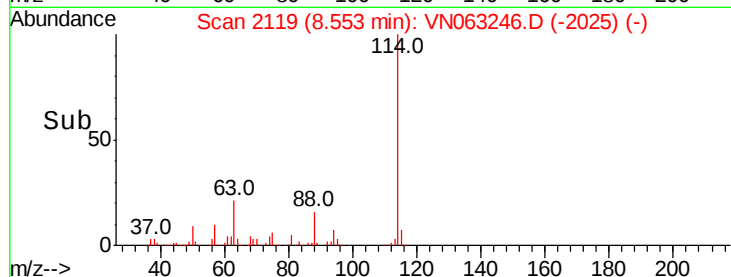
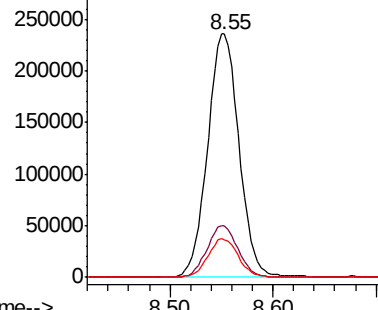
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2119
Delta R.T. 0.00 min
Lab File: VN063246.D
Acq: 4 Sep 2020 14:37

Instrument :
MSVOA_N
ClientSampleId :
SA-MW186S-20200901

Tot Ion:114 Resp: 500252
Ion Ratio Lower Upper
114 100
63 21.0 0.0 43.0
88 15.6 0.0 31.6

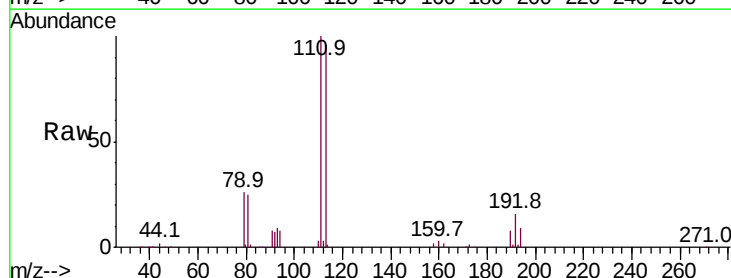


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

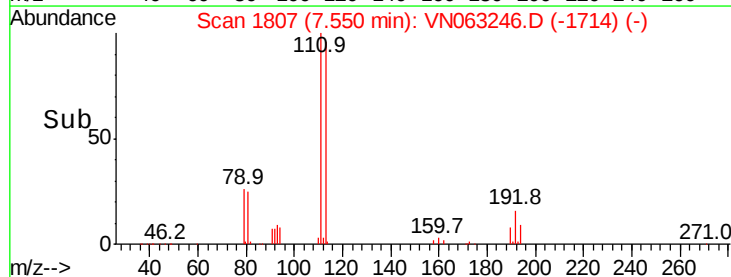
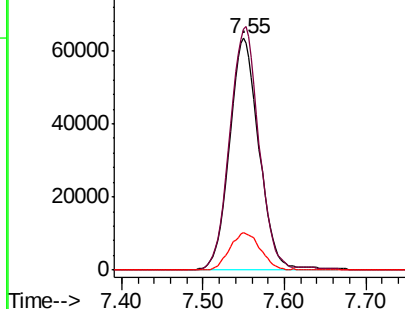


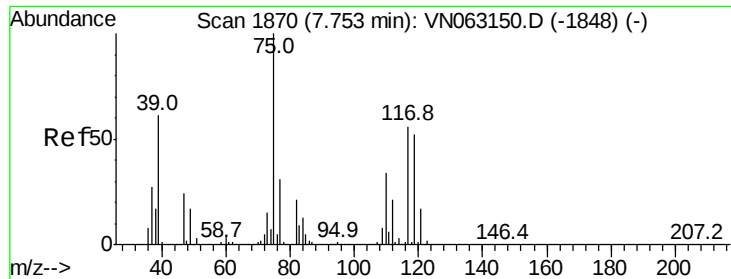
#35
Dibromofluoromethane
Concen: 50.119 ug/l
RT: 7.55 min Scan# 1807
Delta R.T. 0.00 min
Lab File: VN063246.D
Acq: 4 Sep 2020 14:37

Tgt Ion:113 Resp: 160852
Ion Ratio Lower Upper
113 100
111 103.7 80.7 121.1
192 16.7 12.6 19.0



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: 4.666 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. -0.12 min

Lab File: VN063246.D

Acq: 4 Sep 2020 14:37

Instrument :

MSVOA_N

ClientSampleId :

SA-MW186S-20200901

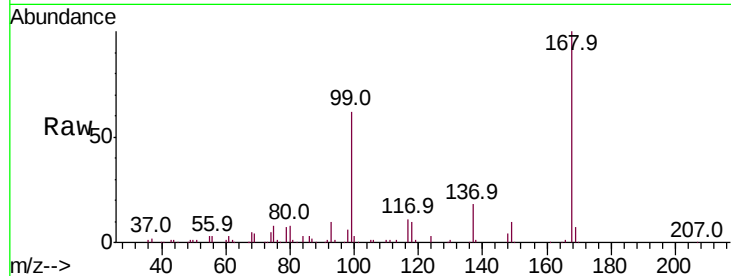
Tot Ion: 75 Resp: 22441

Ion Ratio Lower Upper

75 100

110 8.8 16.6 49.8#

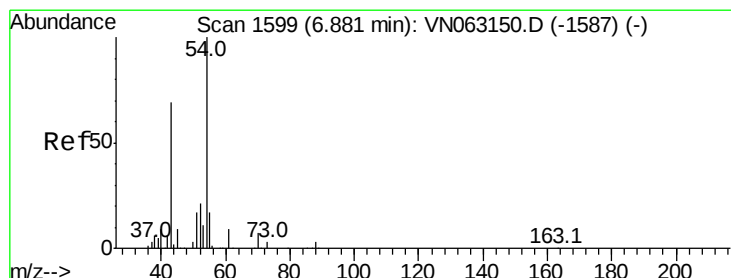
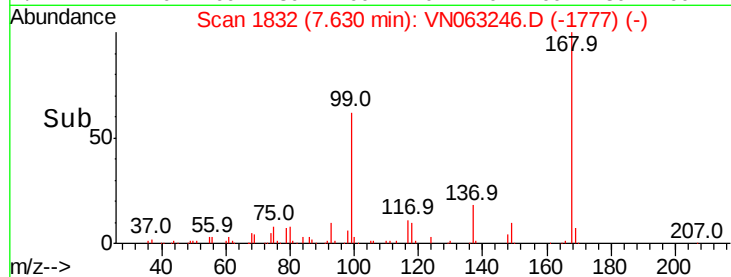
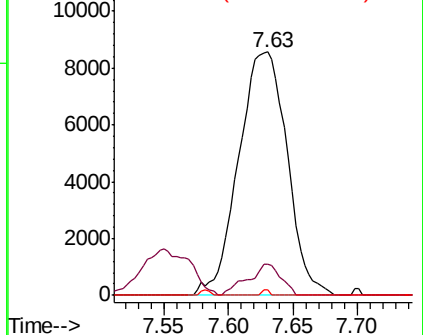
77 0.3 25.4 38.2#



Abundance Ion 74.90 (74.60 to 75.60): VN063150.D (-1848) (-)

Ion 109.90 (109.60 to 110.60): VN063150.D (-1848) (-)

Ion 76.90 (76.60 to 77.60): VN063150.D (-1848) (-)



#37

Ethyl Acetate

Concen: 0.473 ug/l

RT: 6.89 min Scan# 1603

Delta R.T. 0.01 min

Lab File: VN063246.D

Acq: 4 Sep 2020 14:37

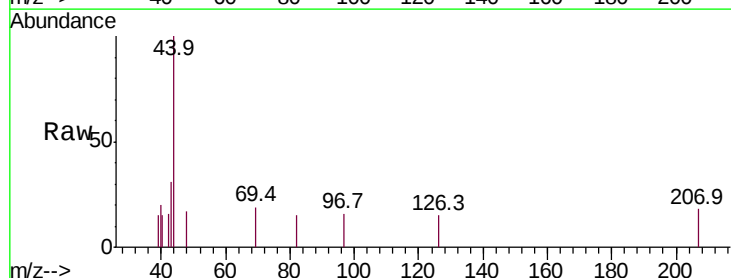
Tgt Ion: 43 Resp: 423

Ion Ratio Lower Upper

43 100

61 0.0 10.2 15.4#

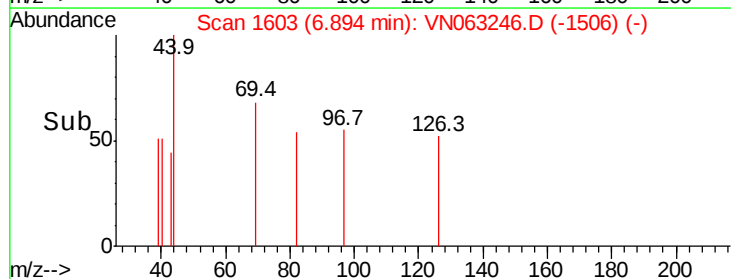
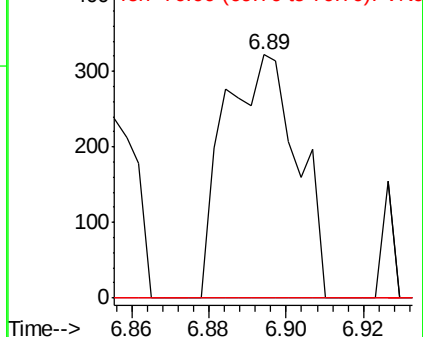
70 0.0 3.0 4.6#

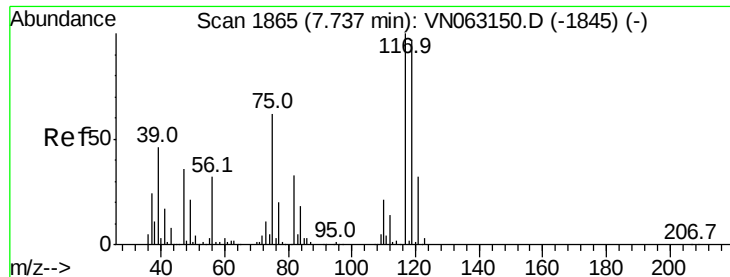


Abundance Ion 43.00 (42.70 to 43.70): VN063150.D (-1587) (-)

Ion 60.90 (60.60 to 61.60): VN063150.D (-1587) (-)

Ion 70.00 (69.70 to 70.70): VN063150.D (-1587) (-)

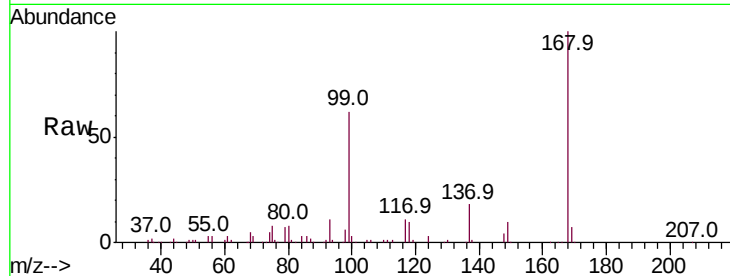




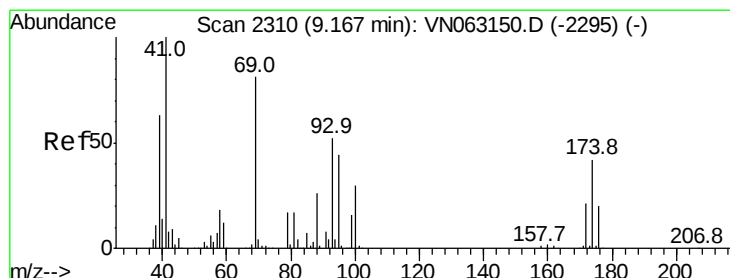
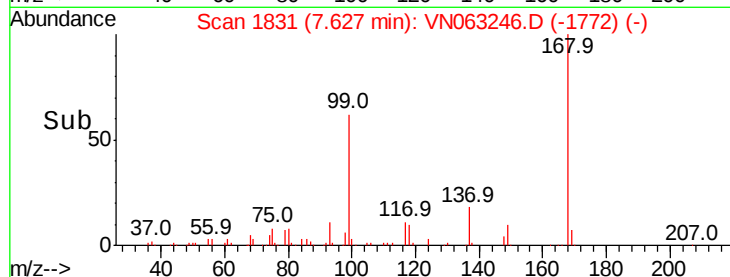
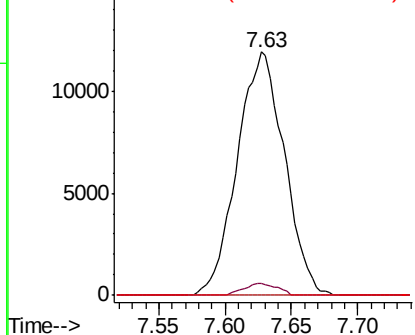
#38
Carbon Tetrachloride
Concen: 6.056 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. -0.11 min
Lab File: VN063246.D
Acq: 4 Sep 2020 14:37

Instrument :
MSVOA_N
ClientSampleId :
SA-MW186S-20200901

Tot Ion:117 Resp: 29534
Ion Ratio Lower Upper
117 100
119 5.0 77.2 115.8#
121 0.0 25.6 38.4#

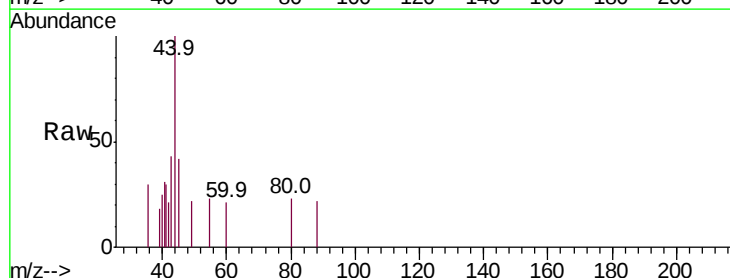


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

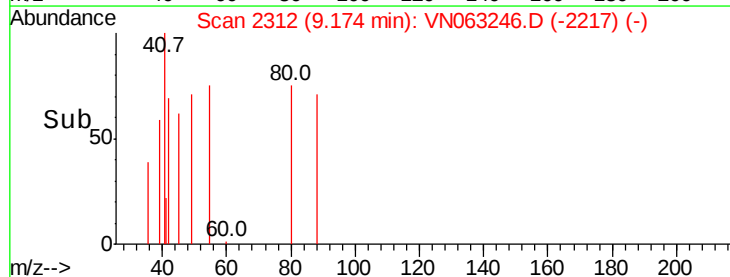
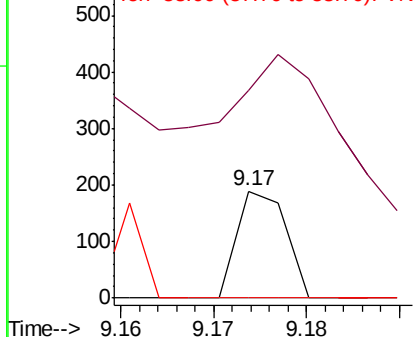


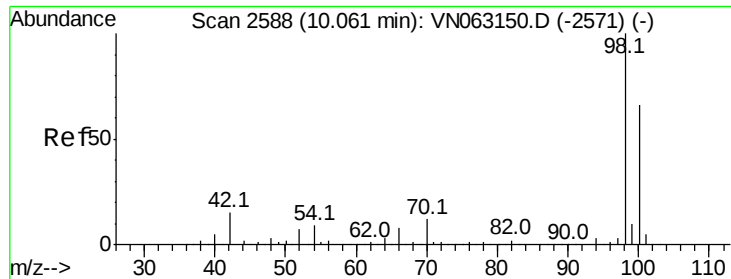
#49
1,4-Dioxane
Concen: 1.262 ug/l
RT: 9.17 min Scan# 2312
Delta R.T. 0.01 min
Lab File: VN063246.D
Acq: 4 Sep 2020 14:37

Tgt Ion: 88 Resp: 69
Ion Ratio Lower Upper
88 100
43 301.4 28.6 42.8#
58 47.8 53.2 79.8#



Abundance Ion 88.00 (87.70 to 88.70): V
Ion 43.00 (42.70 to 43.70): V
Ion 58.00 (57.70 to 58.70): V





#50

Toluene-d8

Concen: 51.635 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063246.D

Acq: 4 Sep 2020 14:37

Instrument :

MSVOA_N

ClientSampleId :

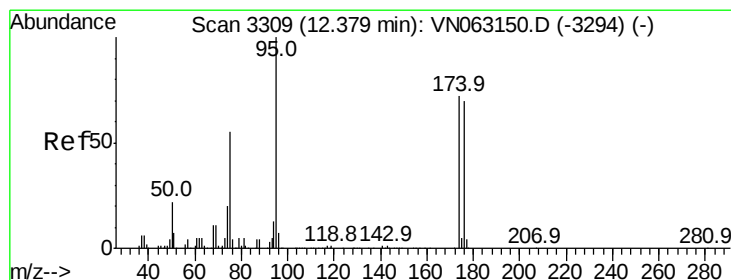
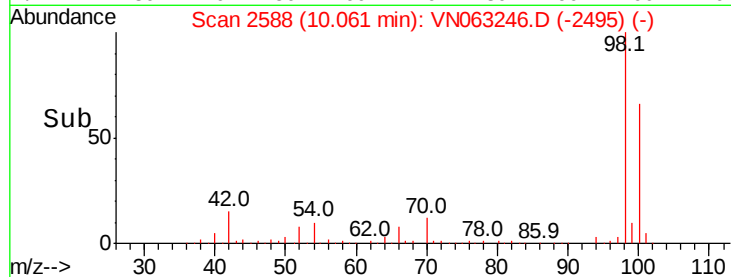
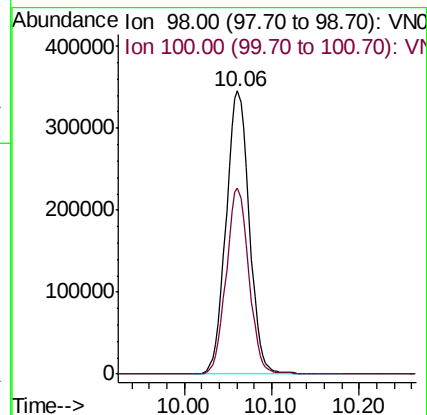
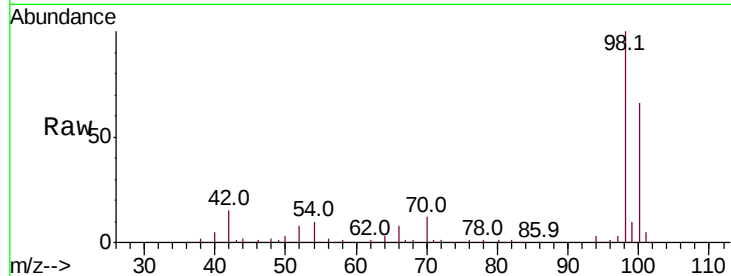
SA-MW186S-20200901

Tot Ion: 98 Resp: 637848

Ion Ratio Lower Upper

98 100

100 64.1 52.0 78.0



#62

4-Bromofluorobenzene

Concen: 48.909 ug/l

RT: 12.38 min Scan# 3309

Delta R.T. 0.00 min

Lab File: VN063246.D

Acq: 4 Sep 2020 14:37

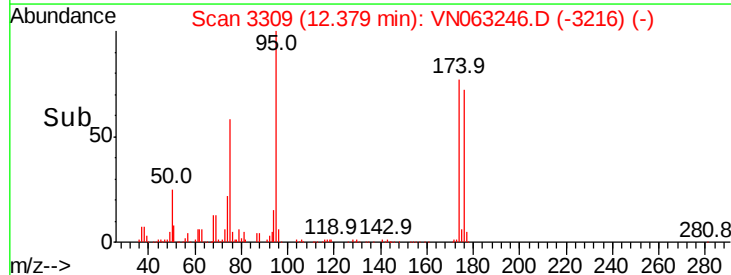
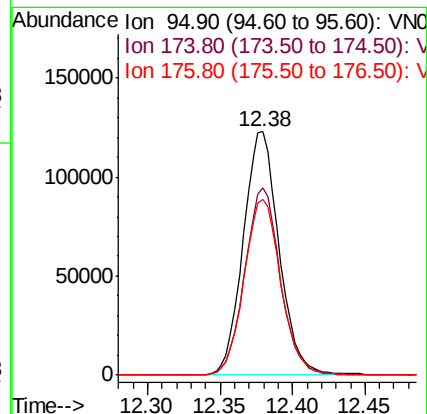
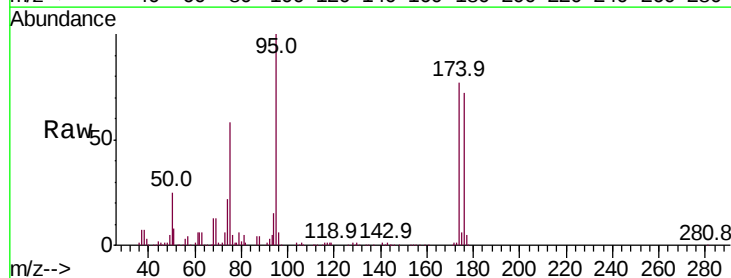
Tgt Ion: 95 Resp: 211343

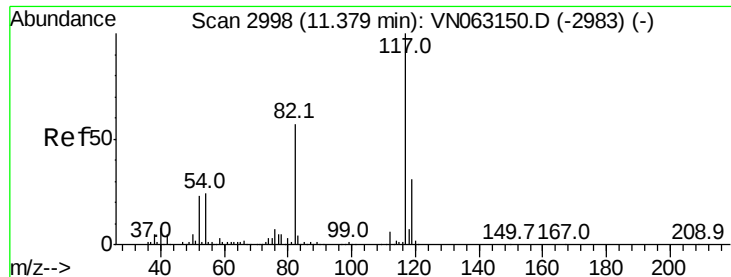
Ion Ratio Lower Upper

95 100

174 76.8 0.0 143.8

176 73.9 0.0 138.4

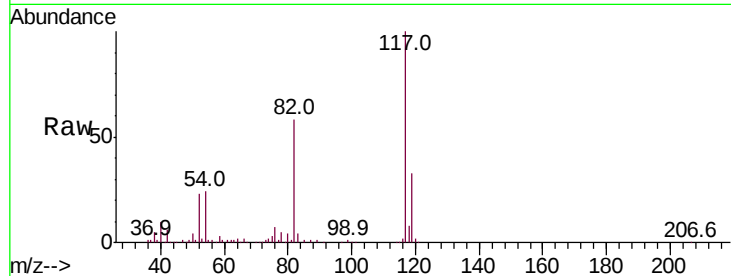




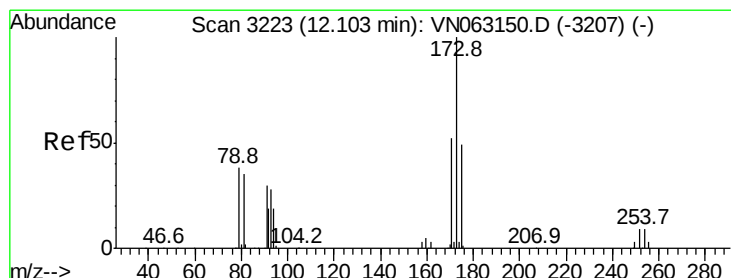
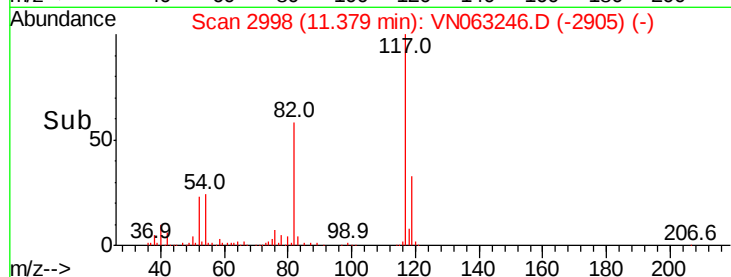
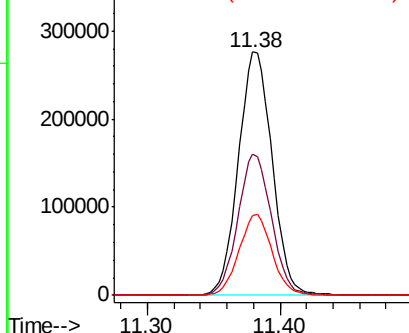
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063246.D
Acq: 4 Sep 2020 14:37

Instrument :
MSVOA_N
ClientSampleId :
SA-MW186S-20200901

Tot Ion:117 Resp: 489215
Ion Ratio Lower Upper
117 100
82 58.2 45.4 68.0
119 32.7 24.6 37.0

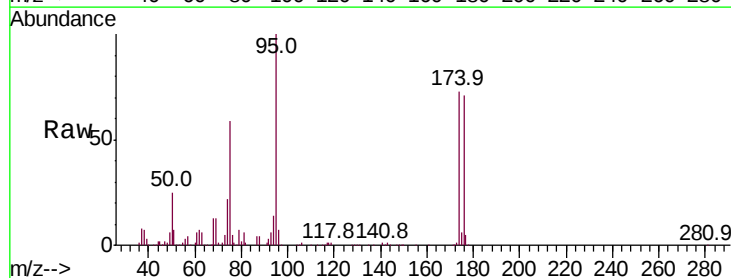


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

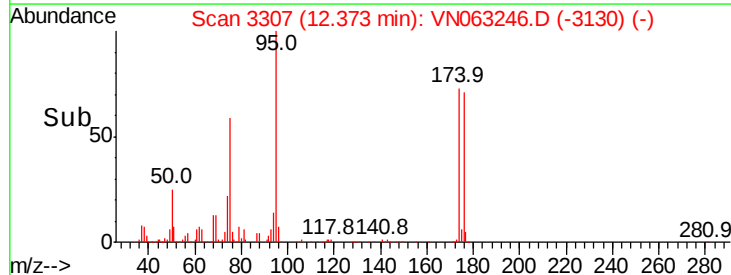
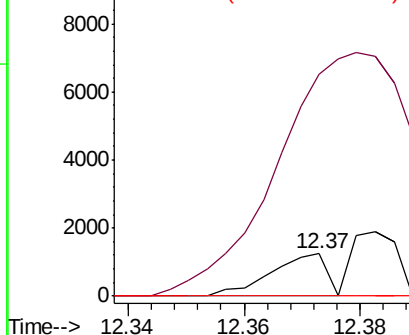


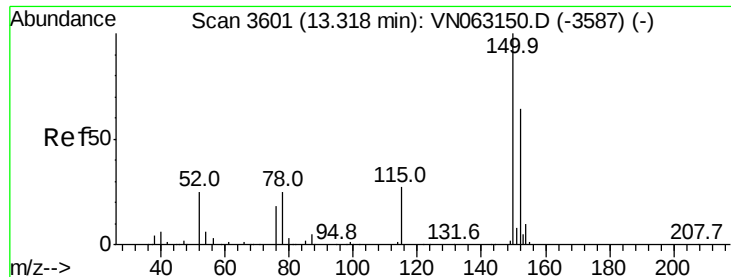
#71
Bromoform
Concen: 0.331 ug/l
RT: 12.37 min Scan# 3307
Delta R.T. 0.27 min
Lab File: VN063246.D
Acq: 4 Sep 2020 14:37

Tgt Ion:173 Resp: 823
Ion Ratio Lower Upper
173 100
175 0.0 24.6 73.8#
254 0.0 0.0 0.0



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: 13.32 min Scan# 3602

Delta R.T. 0.00 min

Lab File: VN063246.D

Acq: 4 Sep 2020 14:37

Instrument :

MSVOA_N

ClientSampleId :

SA-MW186S-20200901

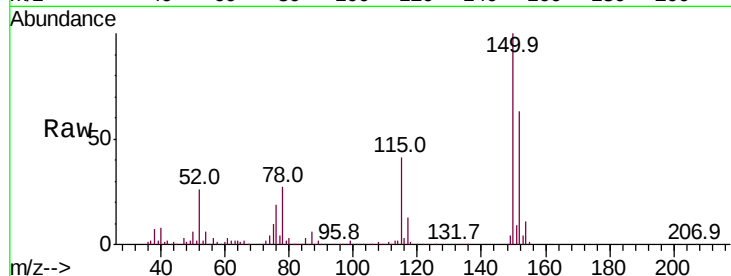
Tot Ion:152 Resp: 193090

Ion Ratio Lower Upper

152 100

115 62.2 32.0 96.2

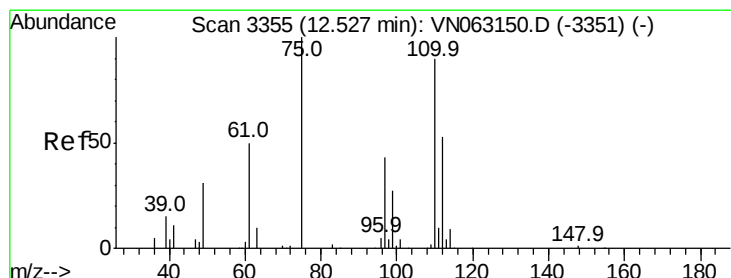
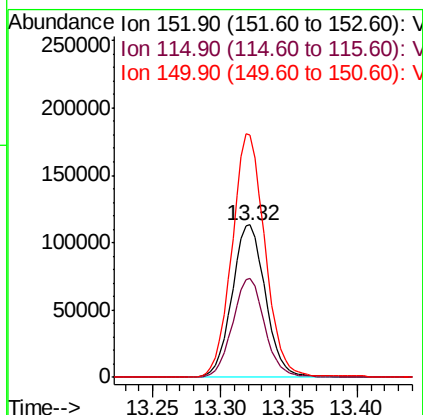
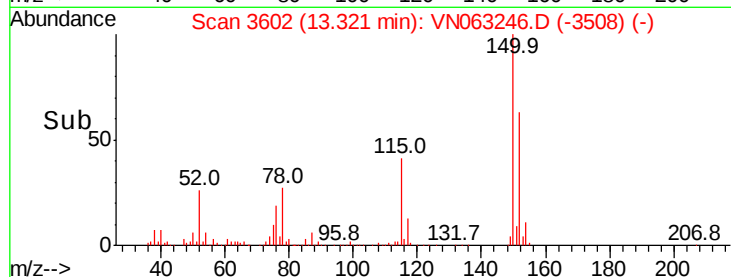
150 157.4 0.0 353.0



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: 33.304 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063246.D

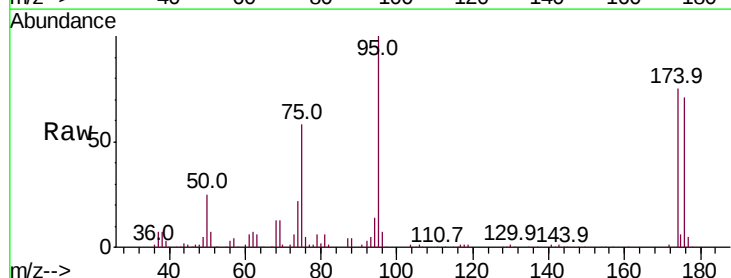
Acq: 4 Sep 2020 14:37

Tgt Ion: 75 Resp: 126350

Ion Ratio Lower Upper

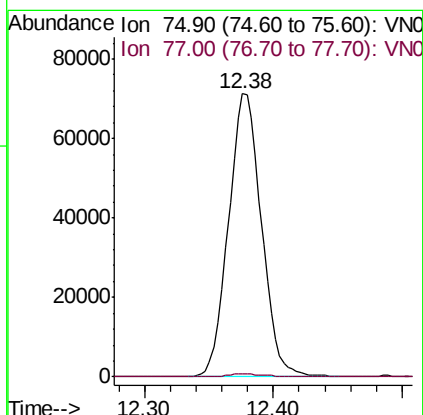
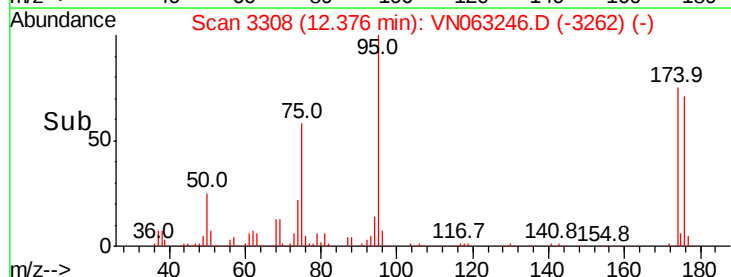
75 100

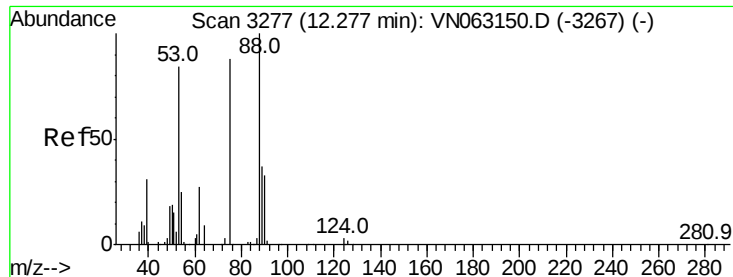
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 80.496 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063246.D

Acq: 4 Sep 2020 14:37

Instrument :

MSVOA_N

ClientSampleId :

SA-MW186S-20200901

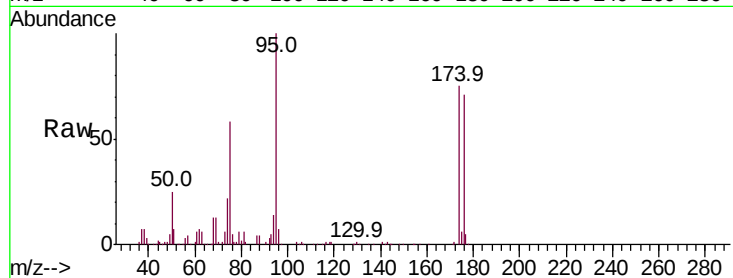
Tot Ion: 75 Resp: 126350

Ion Ratio Lower Upper

75 100

53 0.1 78.7 118.1#

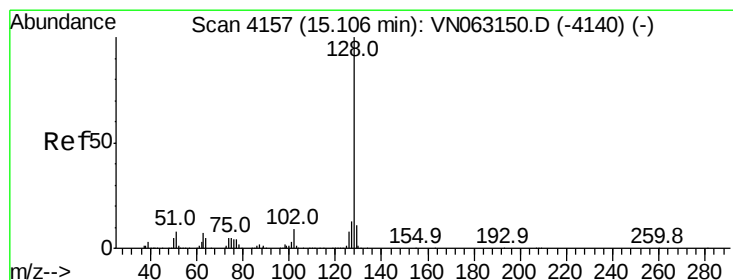
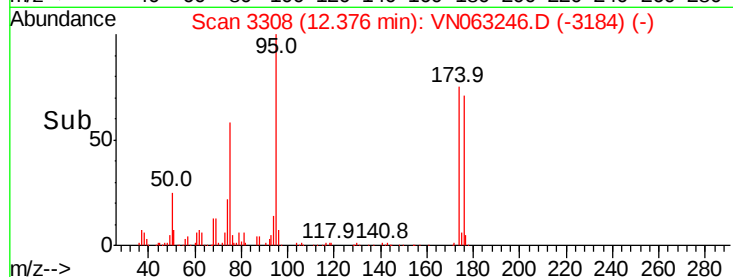
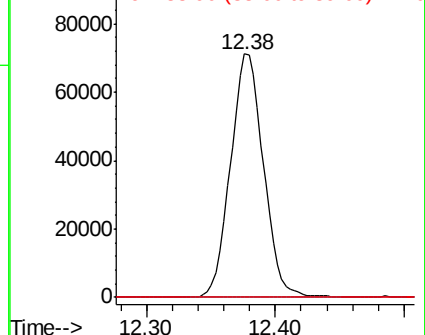
89 0.0 35.3 52.9#



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



#95

Naphthalene

Concen: 0.231 ug/l

RT: 15.11 min Scan# 4158

Delta R.T. 0.00 min

Lab File: VN063246.D

Acq: 4 Sep 2020 14:37

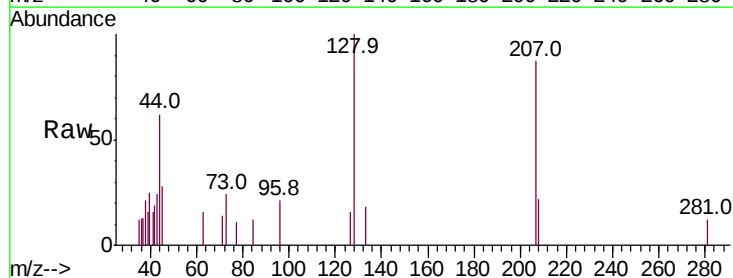
Tgt Ion: 128 Resp: 2566

Ion Ratio Lower Upper

128 100

127 7.4 10.5 15.7#

129 0.0 8.6 13.0#



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

