

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091120\
 Data File : VN063316.D
 Acq On : 11 Sep 2020 15:54
 Operator : JC/MD
 Sample : L3988-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SA-MW127I-20200908

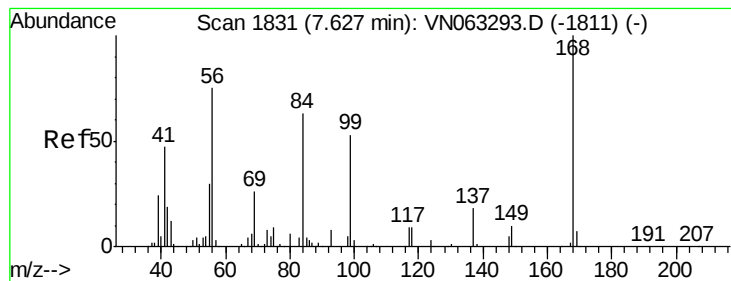
Quant Time: Sep 12 00:41:42 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091020W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 11 06:02:56 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	379616	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	716797	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	693387	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	280933	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	297028	49.80	ug/l	0.00
Spiked Amount			Recovery	=	99.60%	
35) Dibromofluoromethane	7.55	113	227792	49.26	ug/l	0.00
Spiked Amount			Recovery	=	98.52%	
50) Toluene-d8	10.06	98	918731	51.84	ug/l	0.00
Spiked Amount			Recovery	=	103.68%	
62) 4-Bromofluorobenzene	12.38	95	338756	51.76	ug/l	0.00
Spiked Amount			Recovery	=	103.52%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	2195	Below Cal		99
13) Acrolein	3.56	56	67	32.593	ug/l #	55
16) Acetone	3.78	43	4222	2.050	ug/l	93
17) Carbon Disulfide	4.01	76	610	Below Cal	#	75
20) Methylene Chloride	4.50	84	347	Below Cal	#	56
31) Cyclohexane	7.63	56	10673	1.276	ug/l #	30
36) 1,1-Dichloropropene	7.62	75	35074	4.760	ug/l #	51
38) Carbon Tetrachloride	7.62	117	42349	5.840	ug/l #	17
49) 1,4-Dioxane	9.18	88	194	2.139	ug/l #	55
60) Dibromochloromethane	10.60	129	1792	0.324	ug/l #	10
64) Tetrachloroethene	10.61	164	1794	0.316	ug/l #	85
76) 1,2,3-Trichloropropane	12.38	75	184246	29.728	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	184246	79.872	ug/l #	9
88) 1,4-Dichlorobenzene	13.26	146	320	Below Cal		64
95) Naphthalene	15.11	128	4457	Below Cal		96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.00 min

Lab File: VN063316.D

Acq: 11 Sep 2020 15:54

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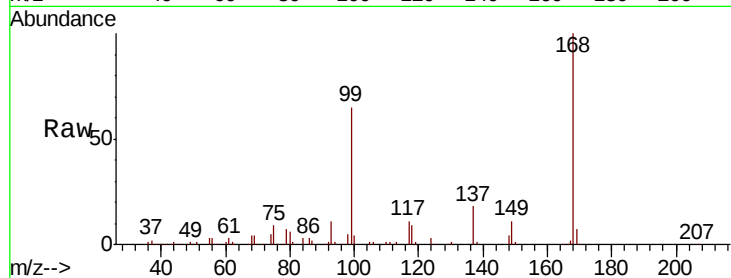
SA-MW127I-20200908

Tot Ion:168 Resp: 379616

Ion Ratio Lower Upper

168 100

99 65.3 51.1 76.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

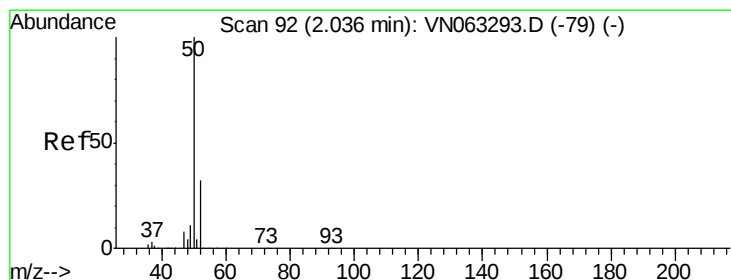
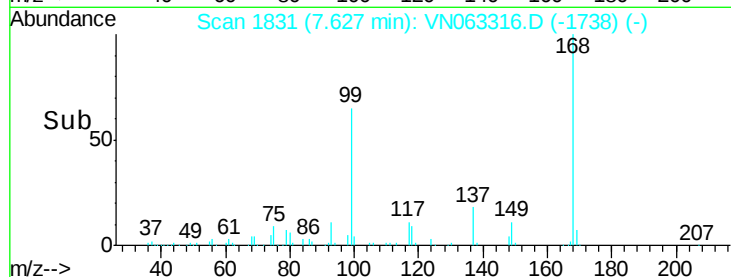
150000

100000

50000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: Below Cal

RT: 2.03 min Scan# 91

Delta R.T. -0.00 min

Lab File: VN063316.D

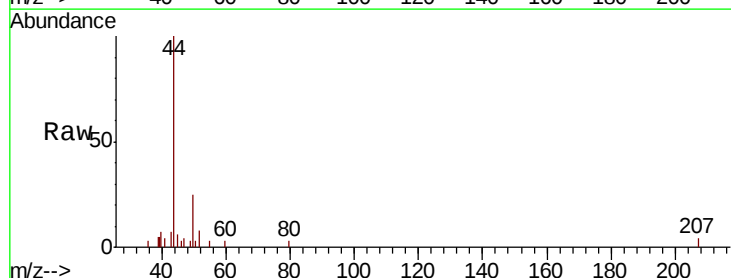
Acq: 11 Sep 2020 15:54

Tgt Ion: 50 Resp: 2195

Ion Ratio Lower Upper

50 100

52 32.6 25.4 38.2



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.03

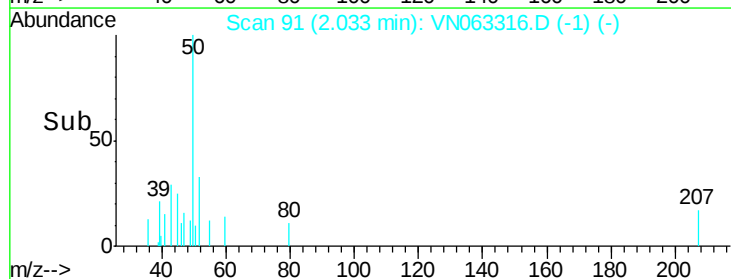
1500

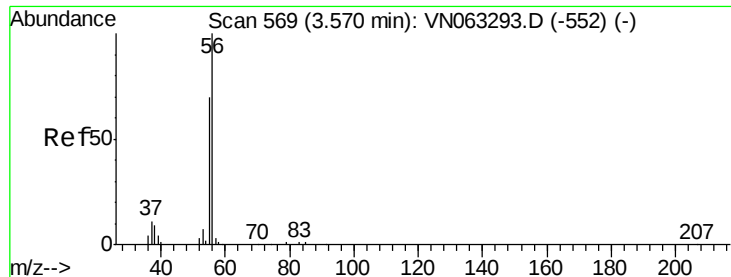
1000

500

0

Time--> 2.00 2.02 2.04 2.06 2.08





#13

Acrolein

Concen: 32.593 ug/l

RT: 3.56 min Scan# 567

Delta R.T. -0.01 min

Lab File: VN063316.D

Acq: 11 Sep 2020 15:54

Instrument :

MSVOA_N

ClientSampleId :

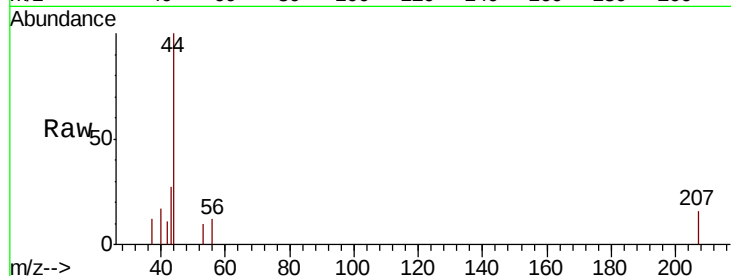
SA-MW127I-20200908

Tot Ion: 56 Resp: 67

Ion Ratio Lower Upper

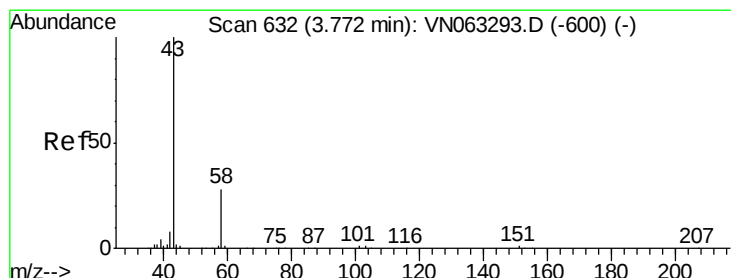
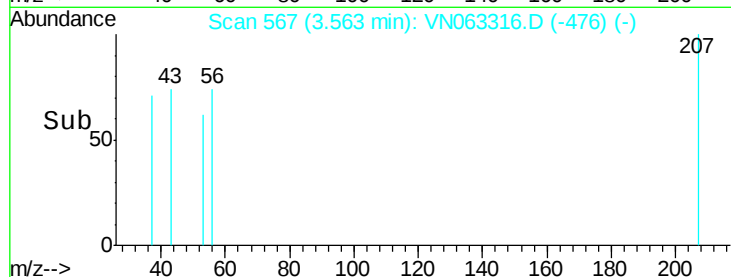
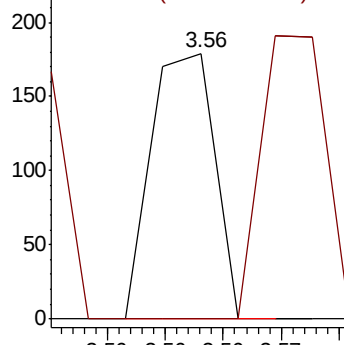
56 100

55 109.0 57.2 85.8#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 2.050 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.01 min

Lab File: VN063316.D

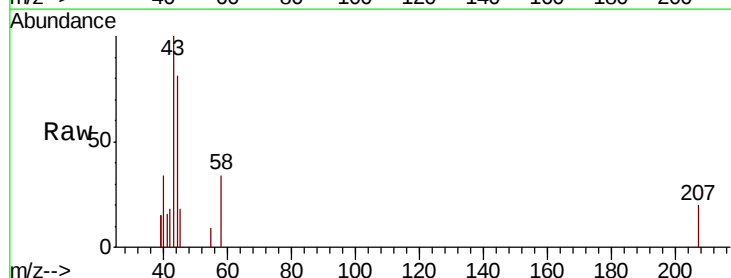
Acq: 11 Sep 2020 15:54

Tgt Ion: 43 Resp: 4222

Ion Ratio Lower Upper

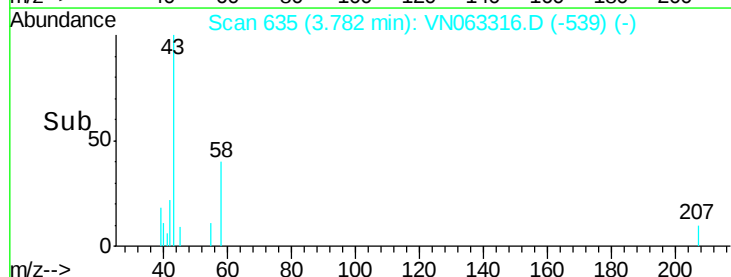
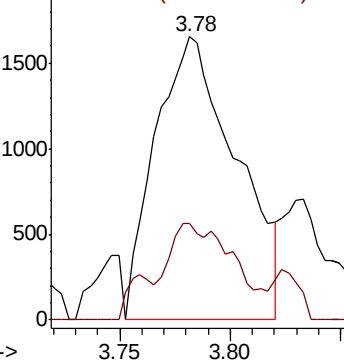
43 100

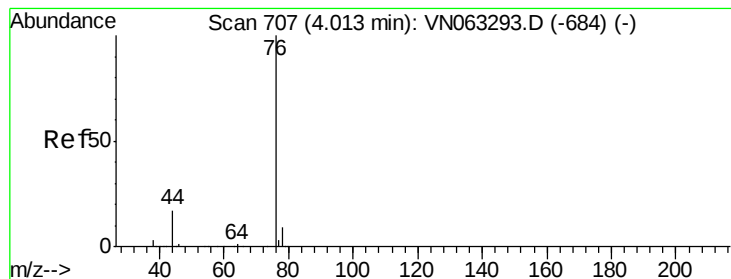
58 24.4 22.6 34.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#17

Carbon Disulfide

Concen: Below Cal

RT: 4.01 min Scan# 706

Delta R.T. -0.00 min

Lab File: VN063316.D

Acq: 11 Sep 2020 15:54

Instrument :

MSVOA_N

ClientSampleId :

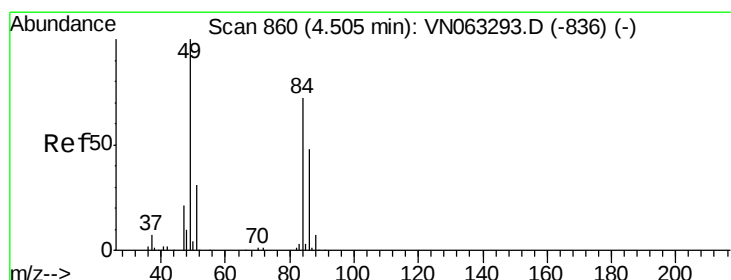
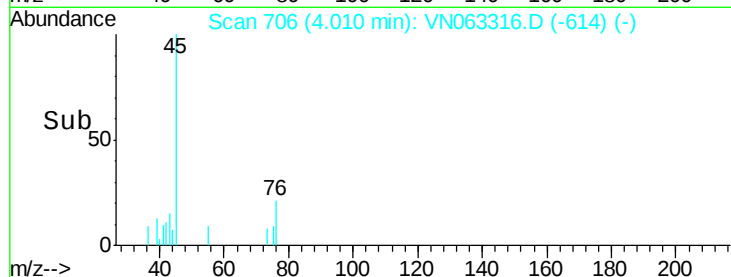
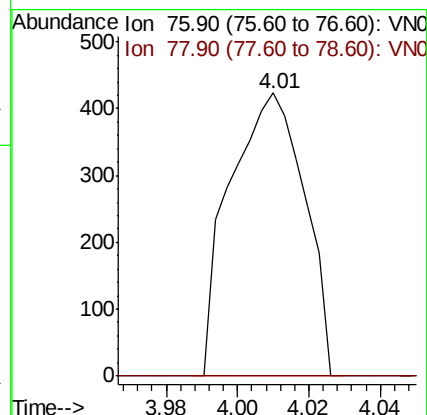
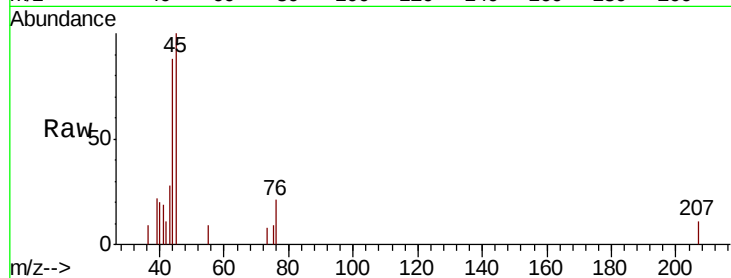
SA-MW127I-20200908

Tot Ion: 76 Resp: 610

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.50 min Scan# 859

Delta R.T. -0.00 min

Lab File: VN063316.D

Acq: 11 Sep 2020 15:54

Tgt Ion: 84 Resp: 347

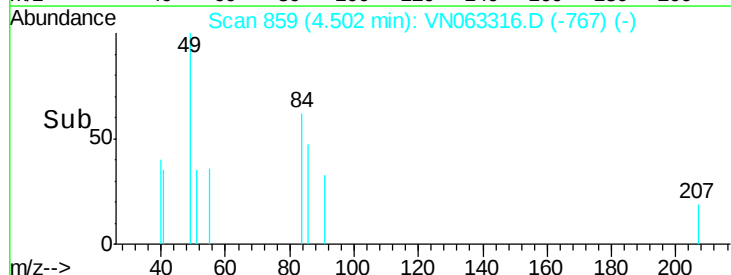
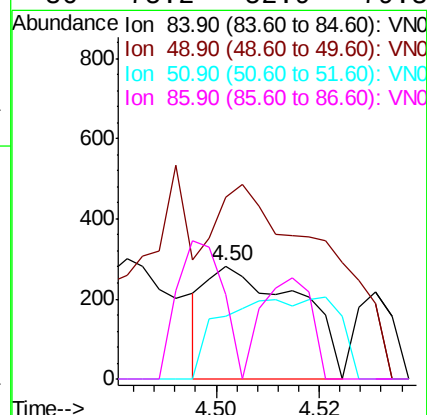
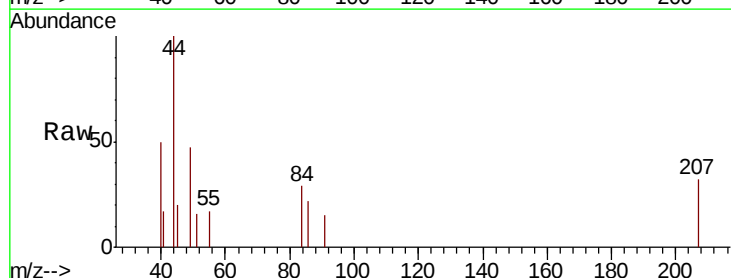
Ion Ratio Lower Upper

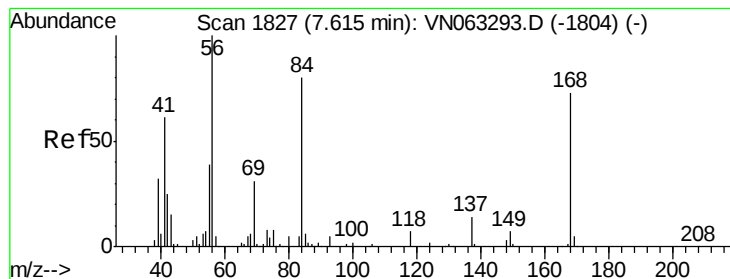
84 100

49 57.4 111.1 166.7#

51 56.0 34.3 51.5#

86 75.2 52.9 79.3





#31

Cyclohexane

Concen: 1.276 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN063316.D

Acq: 11 Sep 2020 15:54

Instrument :

MSVOA_N

ClientSampleId :

SA-MW127I-20200908

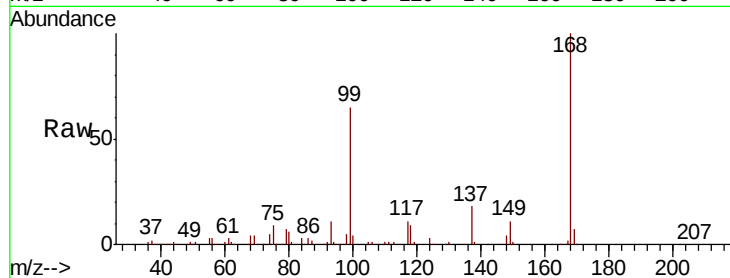
Tot Ion: 56 Resp: 10673

Ion Ratio Lower Upper

56 100

69 141.8 25.1 37.7#

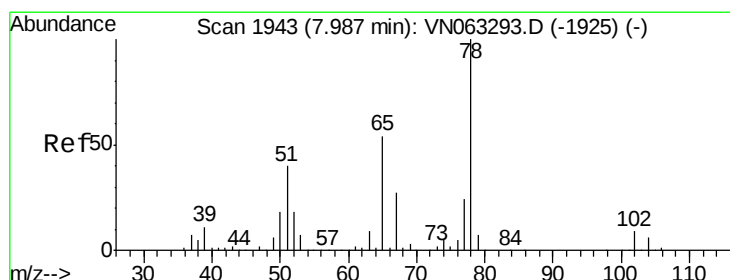
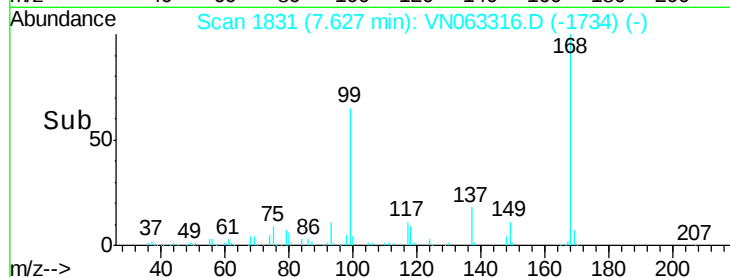
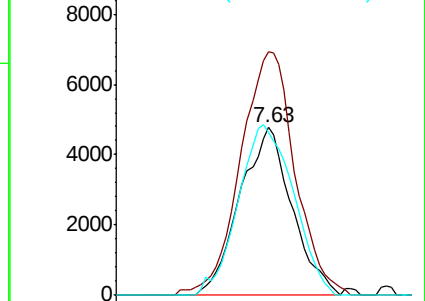
84 97.4 64.2 96.2#



Abundance Ion 56.00 (55.70 to 56.70): VN063316.D (-1734) (-)

Ion 69.00 (68.70 to 69.70): VN063316.D (-1734) (-)

Ion 84.00 (83.70 to 84.70): VN063316.D (-1734) (-)



#33

1,2-Dichloroethane-d4

Concen: 49.801 ug/l

RT: 7.99 min Scan# 1944

Delta R.T. 0.00 min

Lab File: VN063316.D

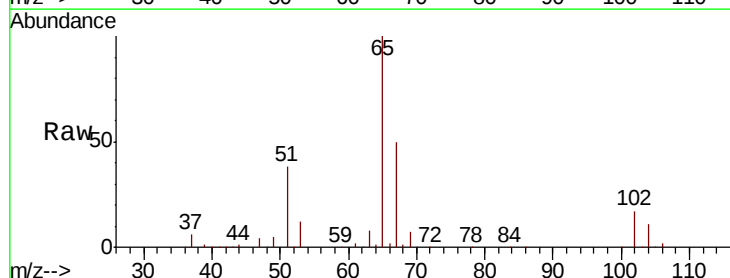
Acq: 11 Sep 2020 15:54

Tgt Ion: 65 Resp: 297028

Ion Ratio Lower Upper

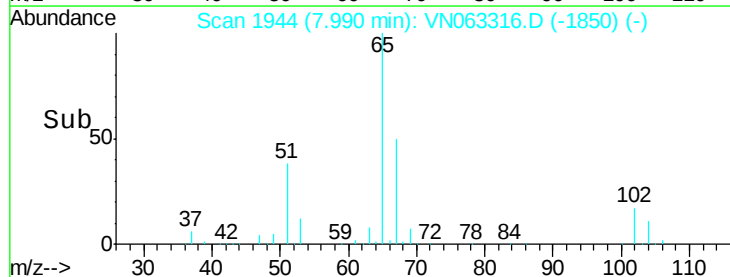
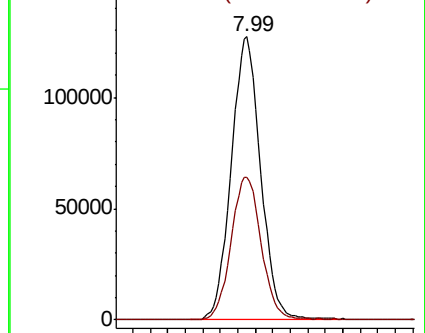
65 100

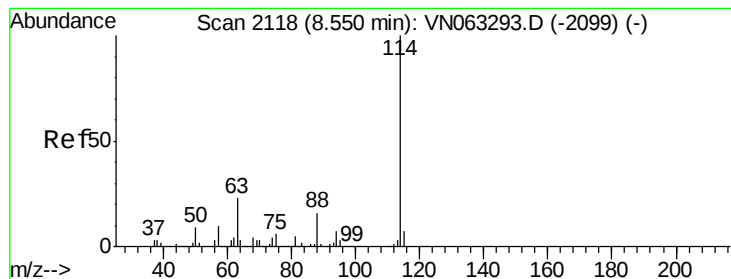
67 51.6 0.0 104.6



Abundance Ion 64.90 (64.60 to 65.60): VN063316.D (-1850) (-)

Ion 66.90 (66.60 to 67.60): VN063316.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: VN063316.D

Acq: 11 Sep 2020 15:54

Instrument :

MSVOA_N

ClientSampleId :

SA-MW127I-20200908

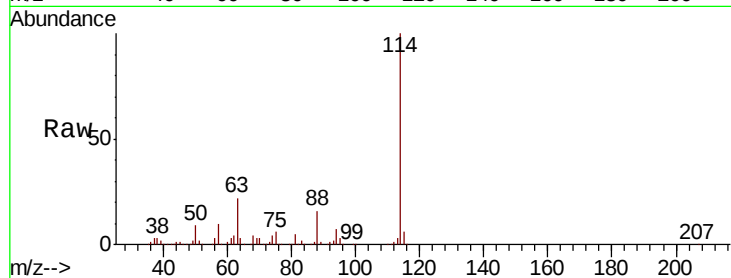
Tot Ion:114 Resp: 716797

Ion Ratio Lower Upper

114 100

63 22.0 0.0 46.0

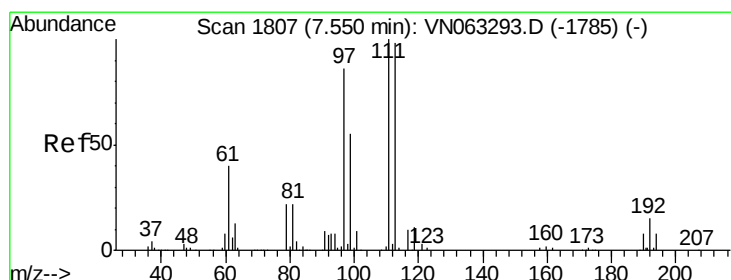
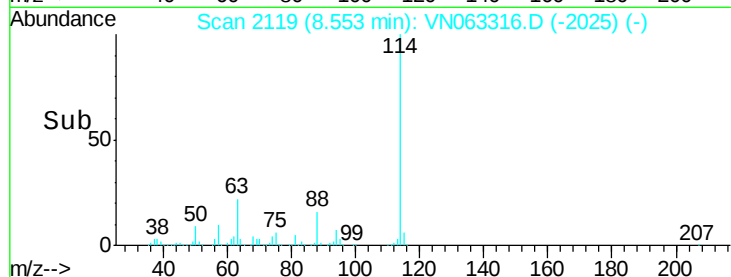
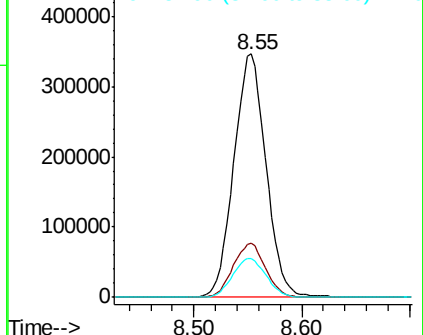
88 15.7 0.0 32.8



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: 49.260 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. -0.00 min

Lab File: VN063316.D

Acq: 11 Sep 2020 15:54

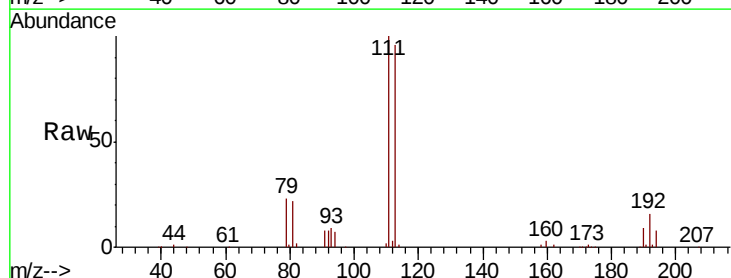
Tgt Ion:113 Resp: 227792

Ion Ratio Lower Upper

113 100

111 104.2 82.2 123.2

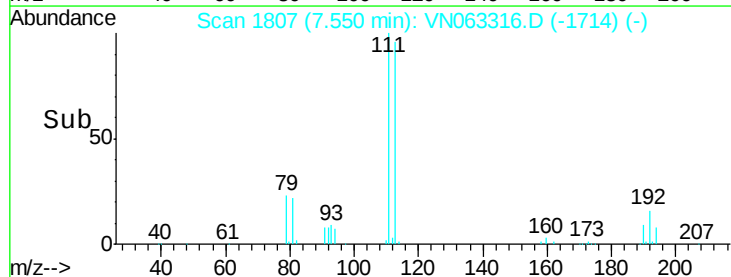
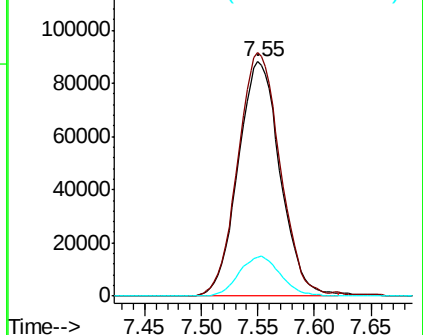
192 16.8 12.9 19.3

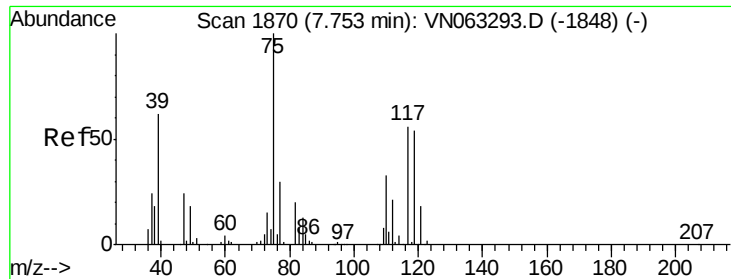


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

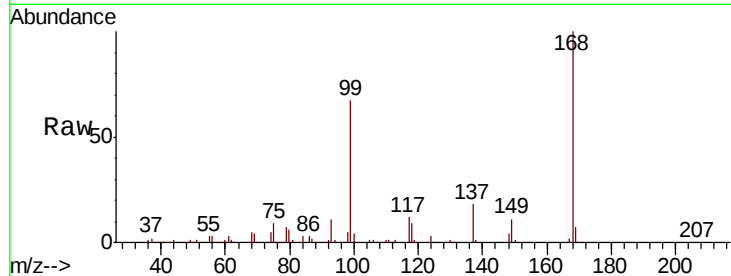




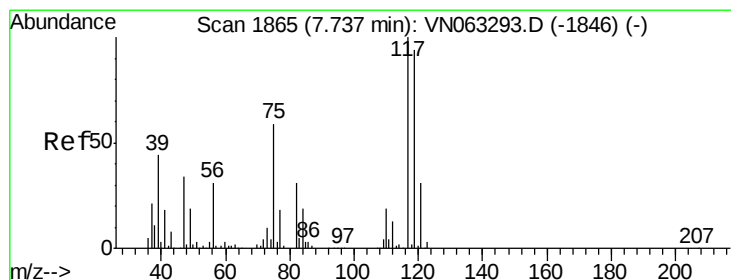
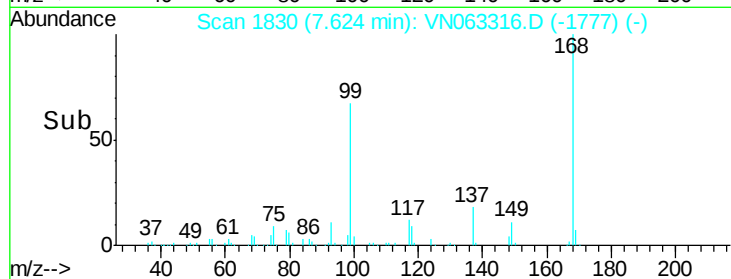
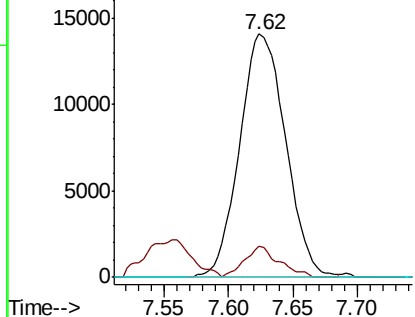
#36
 1,1-Dichloropropene
 Concen: 4.760 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN063316.D
 Acq: 11 Sep 2020 15:54

Instrument :
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 SA-MW127I-20200908

Tot Ion	Ratio	Lower	Upper
75	100		
110	9.5	16.4	49.4#
77	0.0	24.8	37.2#

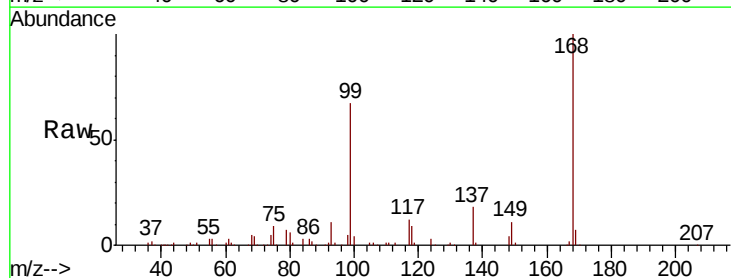


Abundance Ion 74.90 (74.60 to 75.60): VN063316.D (-1777) (-)
 Ion 109.90 (109.60 to 110.60): VN063316.D (-1777) (-)
 Ion 76.90 (76.60 to 77.60): VN063316.D (-1777) (-)

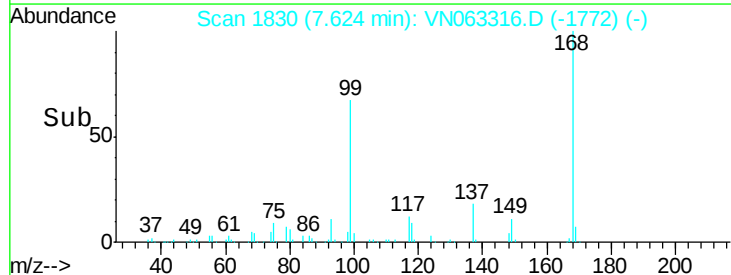
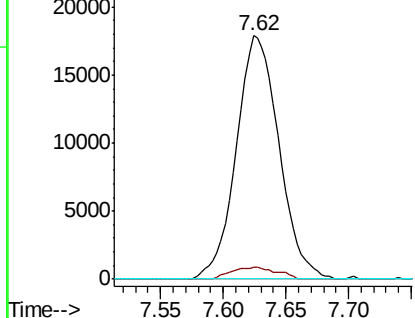


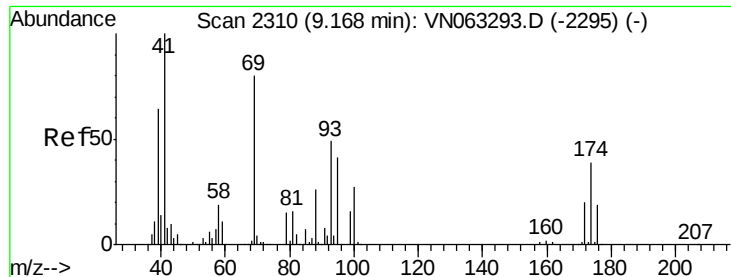
#38
 Carbon Tetrachloride
 Concen: 5.840 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.11 min
 Lab File: VN063316.D
 Acq: 11 Sep 2020 15:54

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.0	75.3	112.9#
121	0.0	24.6	37.0#



Abundance Ion 116.80 (116.50 to 117.50): VN063316.D (-1772) (-)
 Ion 118.80 (118.50 to 119.50): VN063316.D (-1772) (-)
 Ion 120.80 (120.50 to 121.50): VN063316.D (-1772) (-)

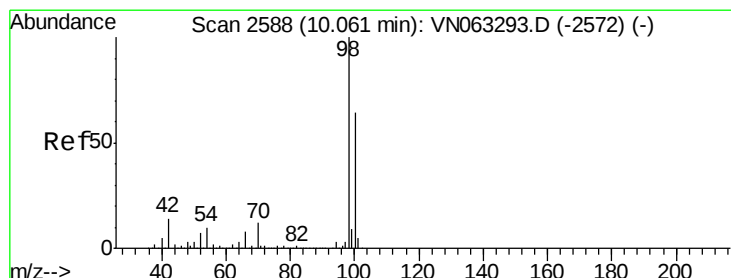
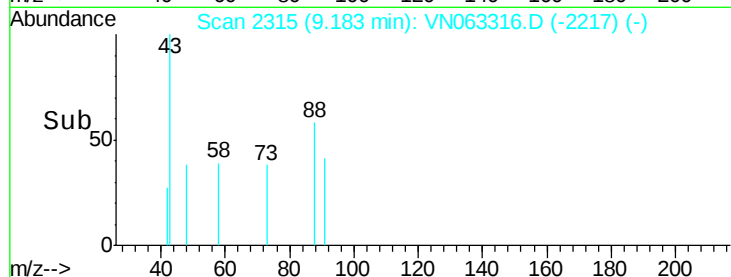
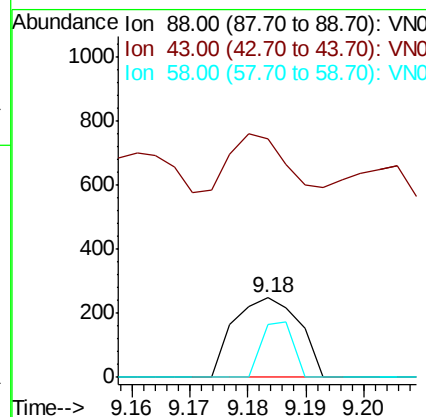
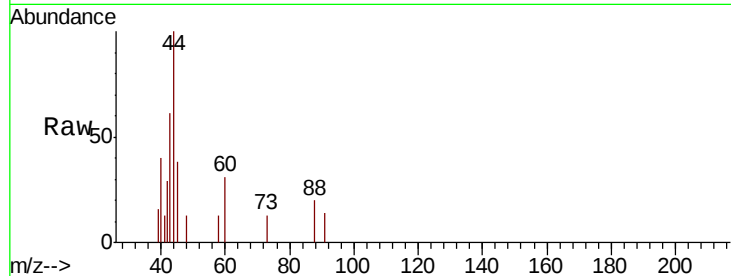




#49
 1,4-Dioxane
 Concen: 2.139 ug/l
 RT: 9.18 min Scan# 2315
 Delta R.T. 0.02 min
 Lab File: VN063316.D
 Acq: 11 Sep 2020 15:54

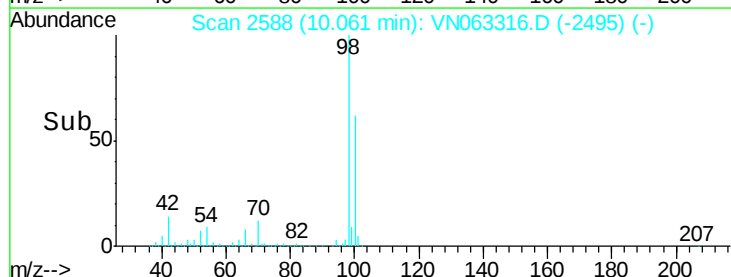
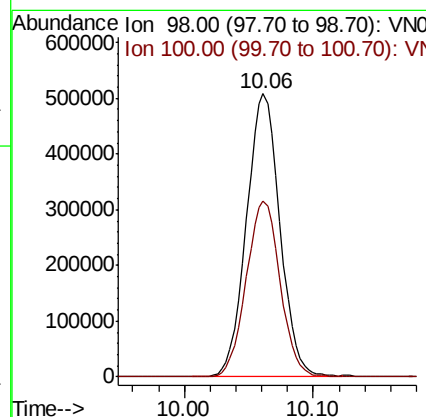
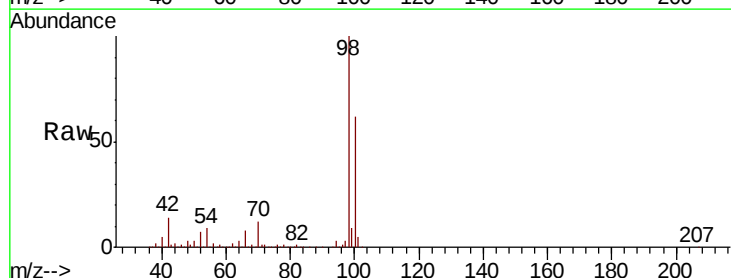
Instrument :
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 SA-MW127I-20200908

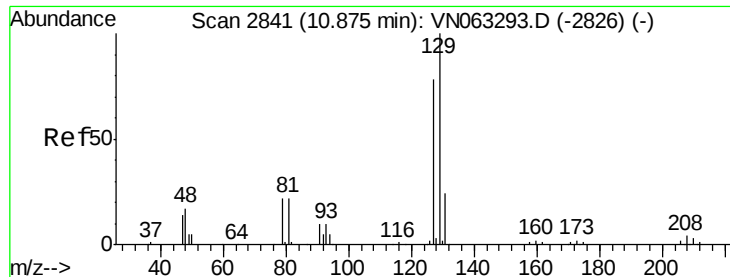
Tot Ion: 88 Resp: 194
 Ion Ratio Lower Upper
 88 100
 43 62.4 30.5 45.7#
 58 33.5 58.9 88.3#



#50
 Toluene-d8
 Concen: 51.844 ug/l
 RT: 10.06 min Scan# 2588
 Delta R.T. -0.00 min
 Lab File: VN063316.D
 Acq: 11 Sep 2020 15:54

Tgt Ion: 98 Resp: 918731
 Ion Ratio Lower Upper
 98 100
 100 63.1 50.7 76.1

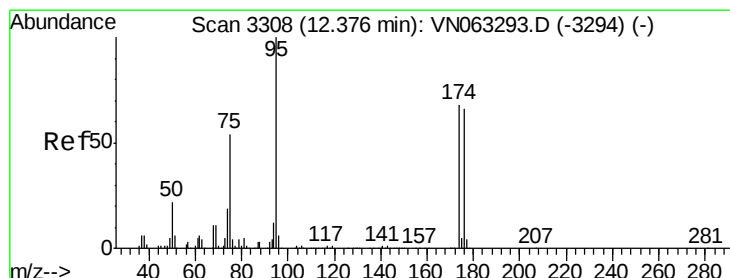
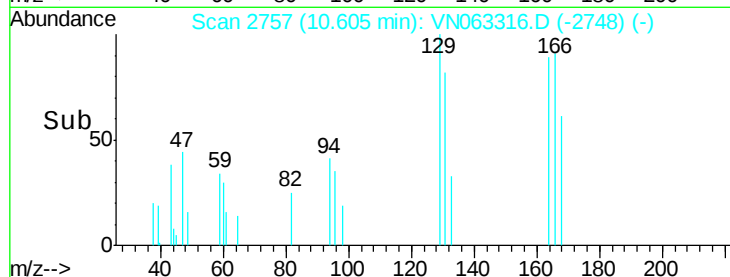
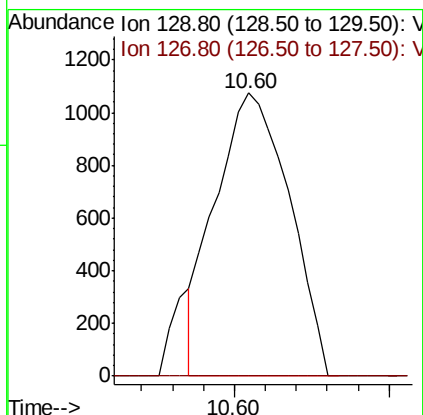
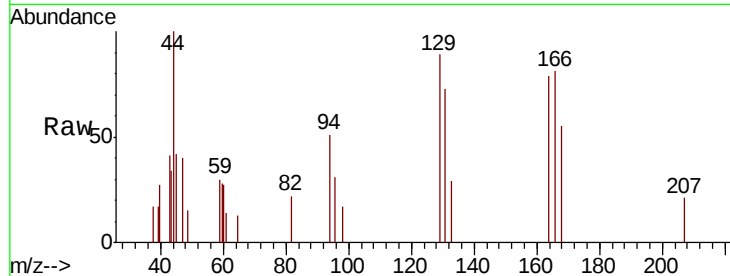




#60
Dibromochloromethane
Concen: 0.324 ug/l
RT: 10.60 min Scan# 2757
Delta R.T. -0.27 min
Lab File: VN063316.D
Acq: 11 Sep 2020 15:54

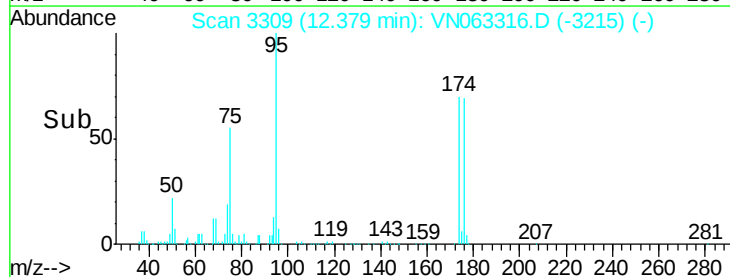
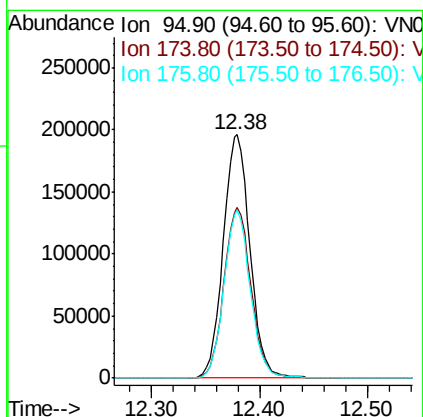
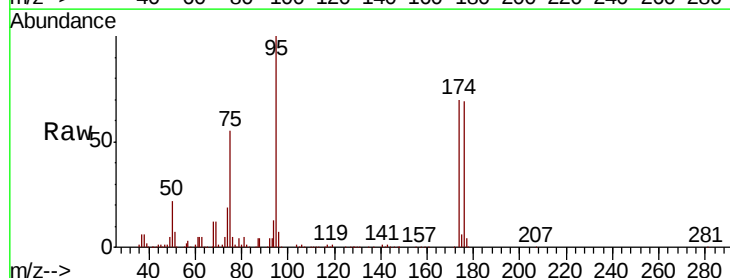
Instrument :
MSVOA_N
ClientSampleId :
SA-MW127I-20200908

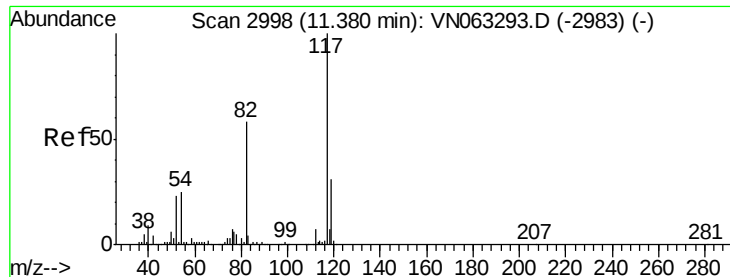
Tot Ion:129 Resp: 1792
Ion Ratio Lower Upper
129 100
127 0.0 39.0 117.0#



#62
4-Bromofluorobenzene
Concen: 51.755 ug/l
RT: 12.38 min Scan# 3309
Delta R.T. 0.00 min
Lab File: VN063316.D
Acq: 11 Sep 2020 15:54

Tgt Ion: 95 Resp: 338756
Ion Ratio Lower Upper
95 100
174 70.9 0.0 136.6
176 67.9 0.0 132.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. -0.00 min

Lab File: VN063316.D

Acq: 11 Sep 2020 15:54

Instrument :

MSVOA_N

ClientSampleId :

SA-MW127I-20200908

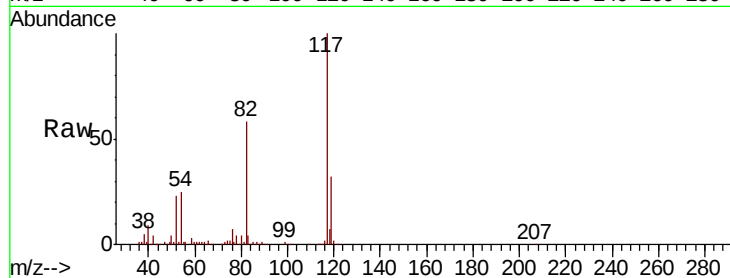
Tot Ion:117 Resp: 693387

Ion Ratio Lower Upper

117 100

82 57.5 46.4 69.6

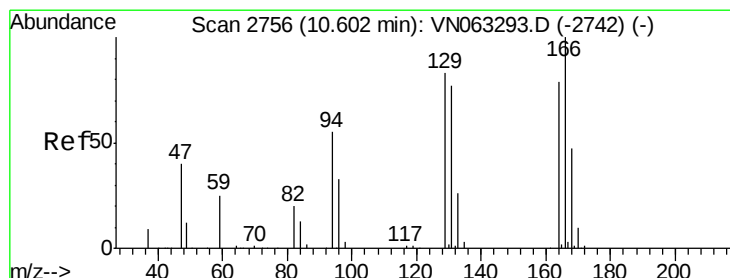
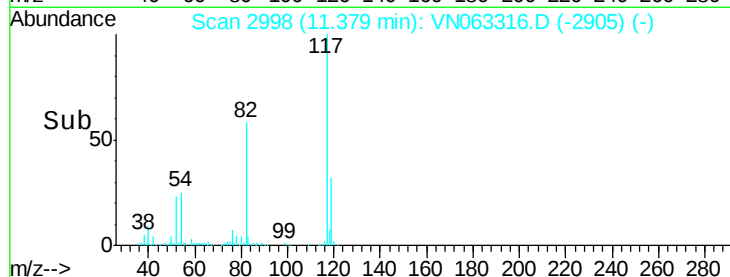
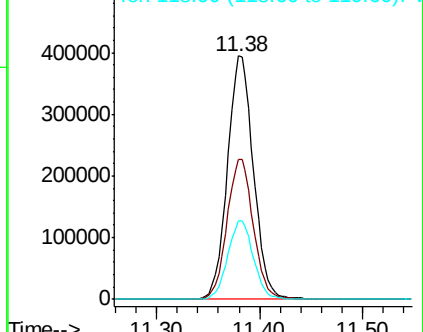
119 32.2 24.8 37.2



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



#64

Tetrachloroethene

Concen: 0.316 ug/l

RT: 10.61 min Scan# 2758

Delta R.T. 0.01 min

Lab File: VN063316.D

Acq: 11 Sep 2020 15:54

Tgt Ion:164 Resp: 1794

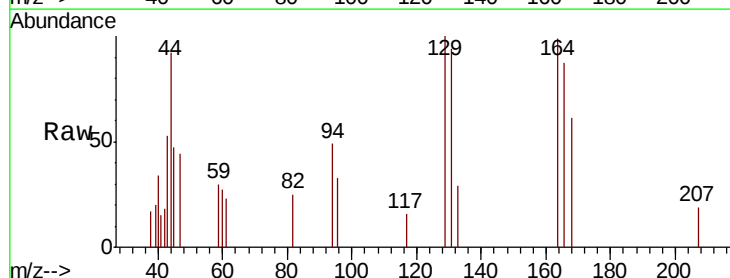
Ion Ratio Lower Upper

164 100

166 87.7 101.3 151.9#

129 101.3 83.7 125.5

131 94.7 78.2 117.4

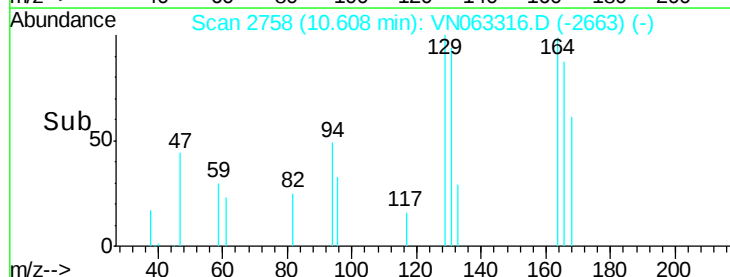
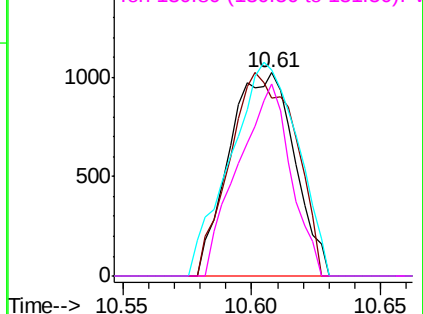


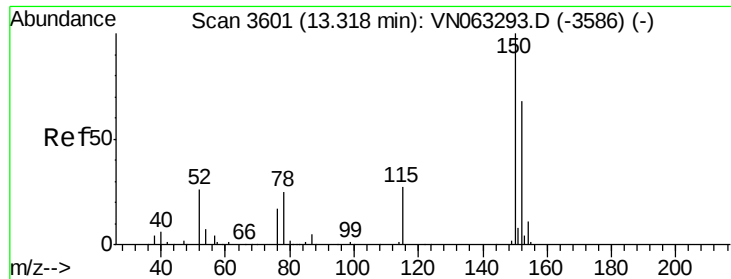
Abundance Ion 163.80 (163.50 to 164.50): V

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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. -0.00 min

Lab File: VN063316.D

Acq: 11 Sep 2020 15:54

Instrument :

MSVOA_N

ClientSampleId :

SA-MW127I-20200908

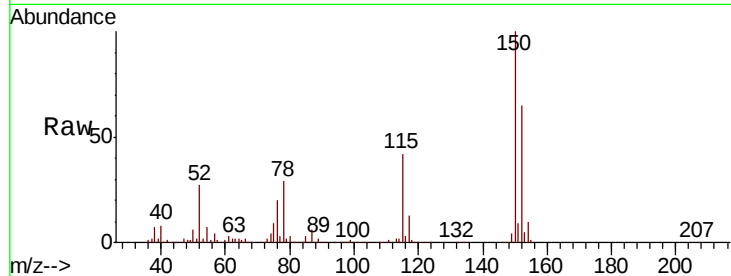
Tot Ion:152 Resp: 280933

Ion Ratio Lower Upper

152 100

115 63.6 31.5 94.5

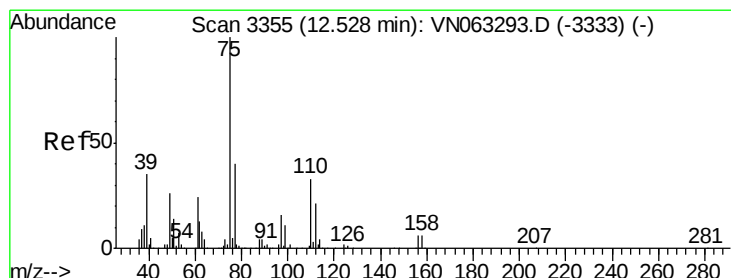
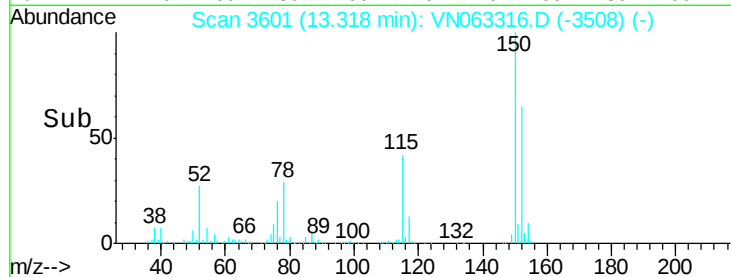
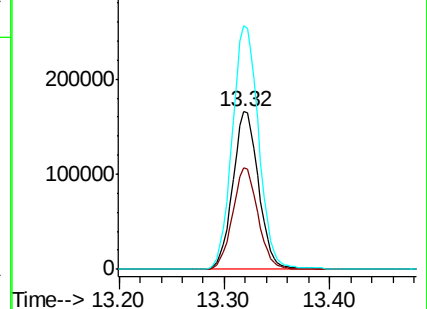
150 158.3 0.0 344.0



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: 29.728 ug/l

RT: 12.38 min Scan# 3309

Delta R.T. -0.15 min

Lab File: VN063316.D

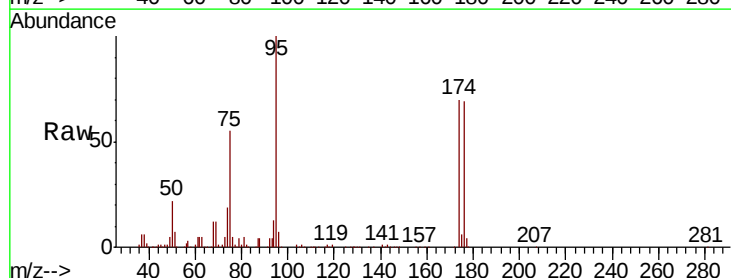
Acq: 11 Sep 2020 15:54

Tgt Ion: 75 Resp: 184246

Ion Ratio Lower Upper

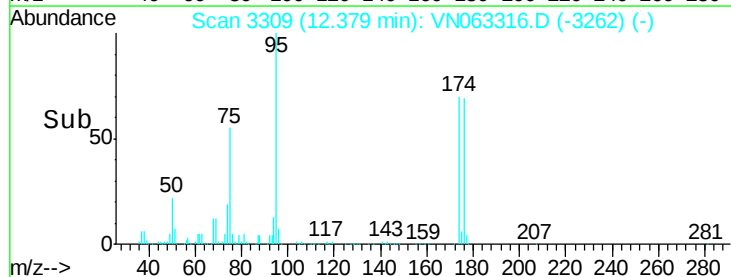
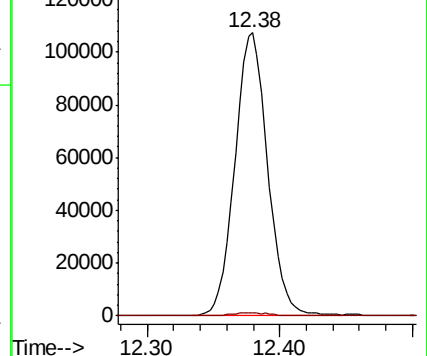
75 100

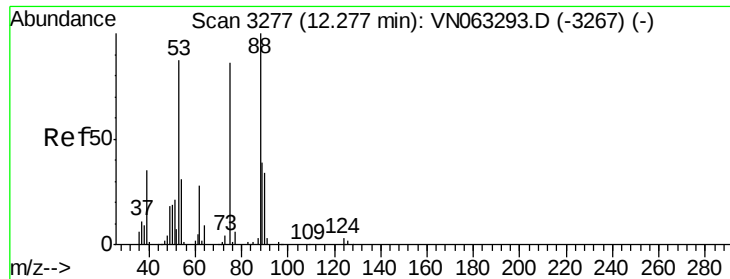
77 1.3 0.0 0.0#



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: 79.872 ug/l

RT: 12.38 min Scan# 3309

Delta R.T. 0.10 min

Lab File: VN063316.D

Acq: 11 Sep 2020 15:54

Instrument :

MSVOA_N

ClientSampleId :

SA-MW127I-20200908

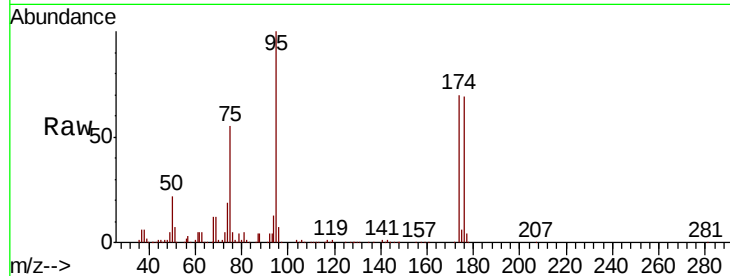
Tot Ion: 75 Resp: 184246

Ion Ratio Lower Upper

75 100

53 0.1 81.8 122.8#

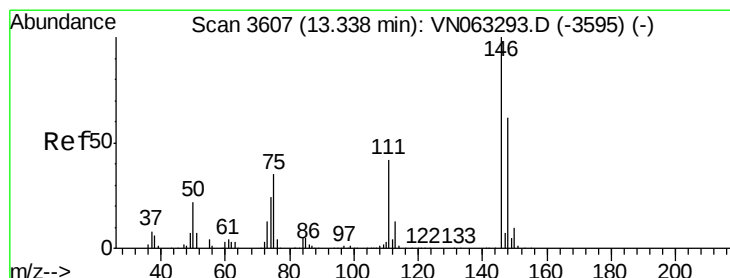
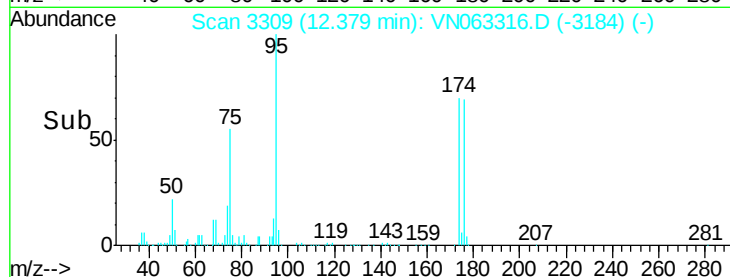
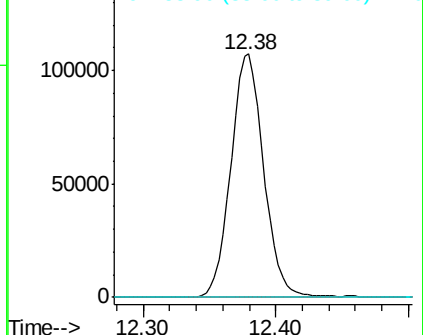
89 0.0 36.7 55.1#



Abundance Ion 74.90 (74.60 to 75.60): VN063316.D (-3184) (-)

Ion 53.00 (52.70 to 53.70): VN063316.D (-3184) (-)

Ion 88.90 (88.60 to 89.60): VN063316.D (-3184) (-)



#88

1,4-Dichlorobenzene

Concen: Below Cal

RT: 13.26 min Scan# 3582

Delta R.T. -0.08 min

Lab File: VN063316.D

Acq: 11 Sep 2020 15:54

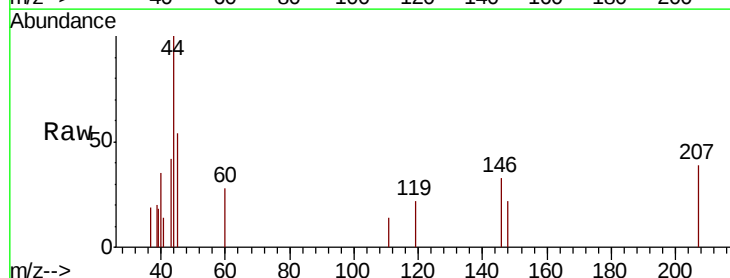
Tgt Ion: 146 Resp: 320

Ion Ratio Lower Upper

146 100

111 62.2 21.3 64.0

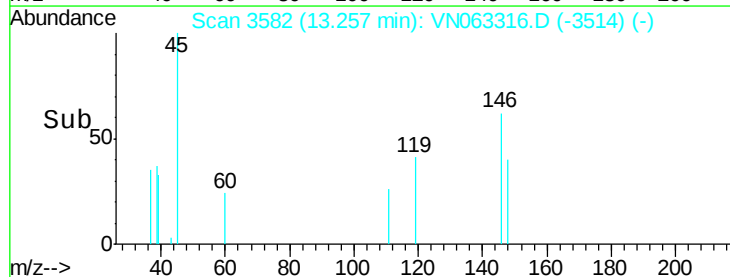
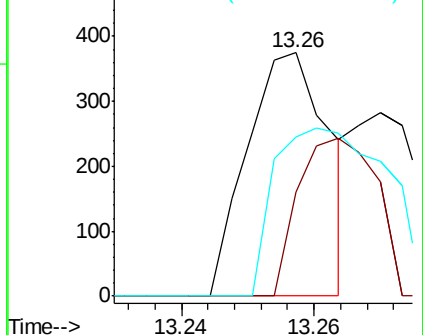
148 94.4 31.5 94.5

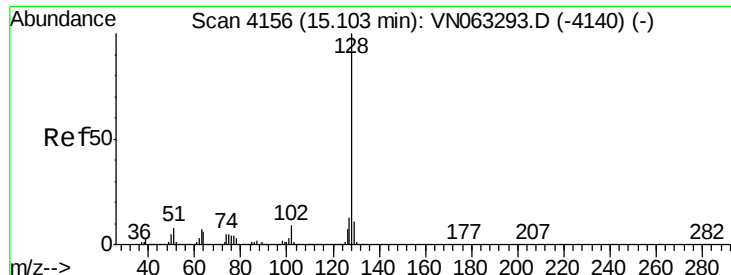


Abundance Ion 145.90 (145.60 to 146.60): VN063316.D (-3514) (-)

Ion 110.90 (110.60 to 111.60): VN063316.D (-3514) (-)

Ion 147.90 (147.60 to 148.60): VN063316.D (-3514) (-)





#95

Naphthalene

Concen: Below Cal

RT: 15.11 min Scan# 4159

Delta R.T. 0.01 min

Lab File: VN063316.D

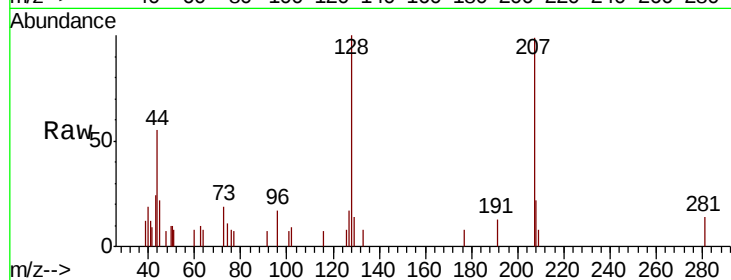
Acq: 11 Sep 2020 15:54

Instrument :

MSVOA_N

ClientSampleId :

SA-MW127I-20200908



Tot Ion:	128	Resp:	4457
Ion	Ratio	Lower	Upper
128	100		
127	10.9	10.3	15.5
129	9.9	8.6	12.8

