

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091420\
 Data File : VN063353.D
 Acq On : 14 Sep 2020 19:42
 Operator : JC/MD
 Sample : L3988-20
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SA-PZ191I-20200910

Quant Time: Sep 15 05:14:20 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	381738	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	722415	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	707397	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	287523	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	299320	49.91	ug/l	0.00
Spiked Amount			Recovery	=	99.82%	
35) Dibromofluoromethane	7.55	113	228609	49.05	ug/l	0.00
Spiked Amount			Recovery	=	98.10%	
50) Toluene-d8	10.06	98	914375	51.20	ug/l	0.00
Spiked Amount			Recovery	=	102.40%	
62) 4-Bromofluorobenzene	12.38	95	342031	51.85	ug/l	0.00
Spiked Amount			Recovery	=	103.70%	

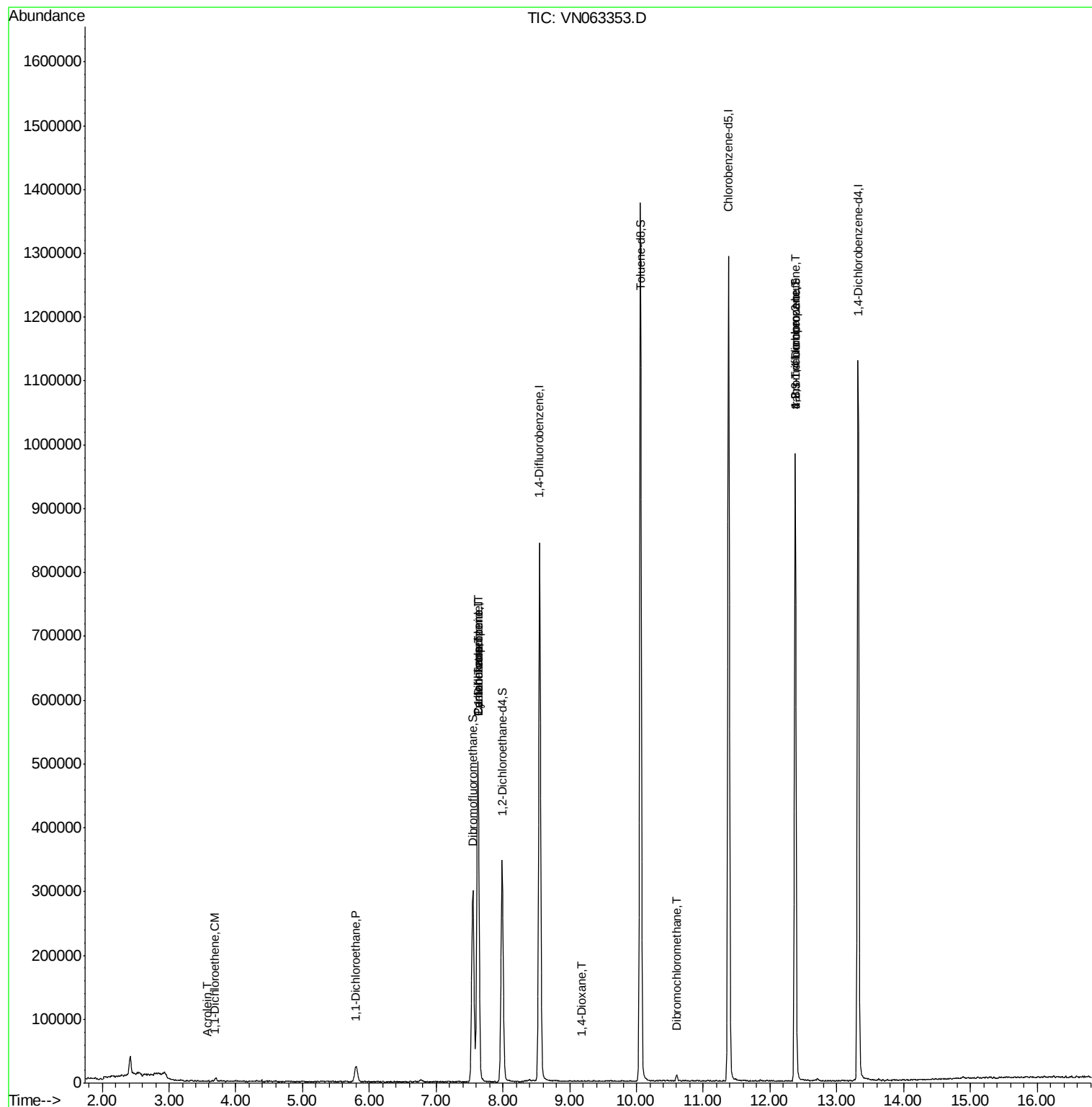
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	1780	Below Cal	#	88
12) 1,1-Dichloroethene	3.69	96	1075	0.257	ug/l #	62
13) Acrolein	3.56	56	60	32.578	ug/l #	1
17) Carbon Disulfide	4.01	76	313	Below Cal	#	75
20) Methylene Chloride	4.50	84	298	Below Cal	#	81
24) 1,1-Dichloroethane	5.80	63	37159	4.060	ug/l	98
31) Cyclohexane	7.63	56	10027	1.192	ug/l #	1
36) 1,1-Dichloropropene	7.62	75	35035	4.718	ug/l #	51
38) Carbon Tetrachloride	7.62	117	41040	5.616	ug/l #	17
49) 1,4-Dioxane	9.17	88	79	0.864	ug/l #	1
60) Dibromochloromethane	10.60	129	1757	0.315	ug/l #	10
76) 1,2,3-Trichloropropane	12.38	75	186405	29.387	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	186405	78.956	ug/l #	9
88) 1,4-Dichlorobenzene	13.26	146	372	Below Cal		83
95) Naphthalene	15.12	128	866	Below Cal	#	80
96) 1,2,3-Trichlorobenzene	15.30	180	95	Below Cal	#	43

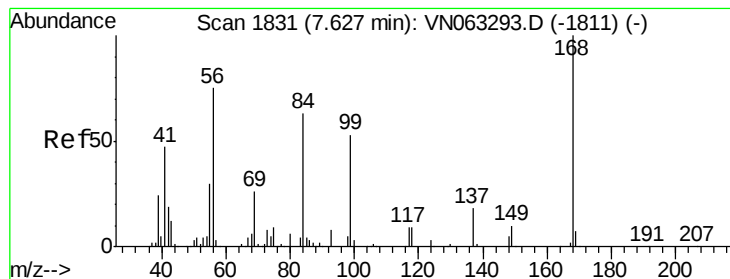
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.00 min

Lab File: VN063353.D

Acq: 14 Sep 2020 19:42

Instrument :

MSVOA_N

ClientSampleId :

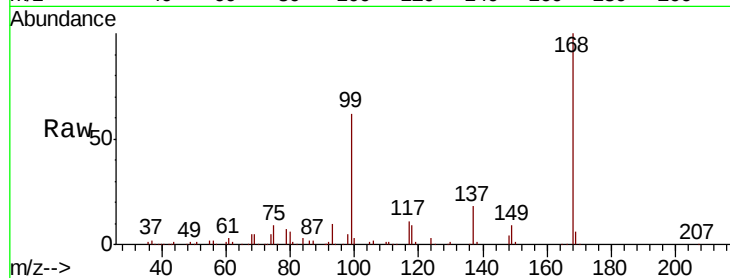
SA-PZ191I-20200910

Tot Ion:168 Resp: 381738

Ion Ratio Lower Upper

168 100

99 61.8 51.1 76.7



Abundance Ion 167.90 (167.60 to 168.60): VN063353.D (-1738) (-)

Ion 98.90 (98.60 to 99.60): VN063353.D (-1738) (-)

7.63

150000

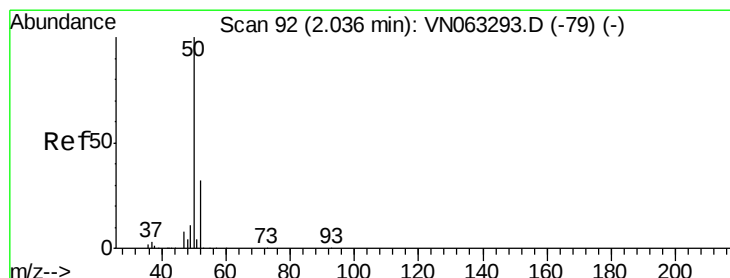
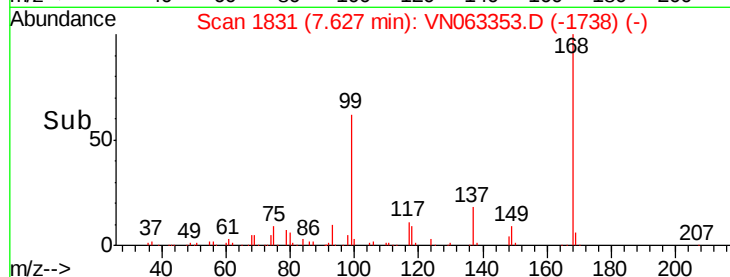
100000

50000

0

7.50 7.55 7.60 7.65 7.70

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 92

Delta R.T. 0.00 min

Lab File: VN063353.D

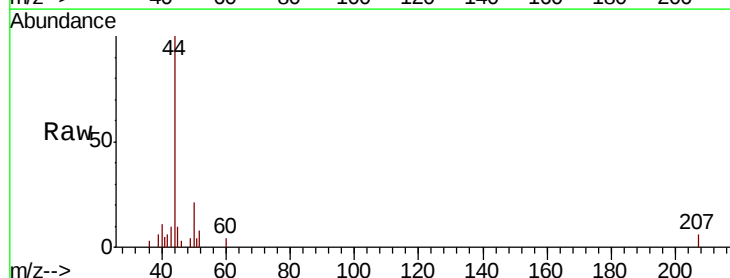
Acq: 14 Sep 2020 19:42

Tgt Ion: 50 Resp: 1780

Ion Ratio Lower Upper

50 100

52 38.4 25.4 38.2#



Abundance Ion 49.90 (49.60 to 50.60): VN063353.D (-1) (-)

Ion 51.90 (51.60 to 52.60): VN063353.D (-1) (-)

1200

1000

800

600

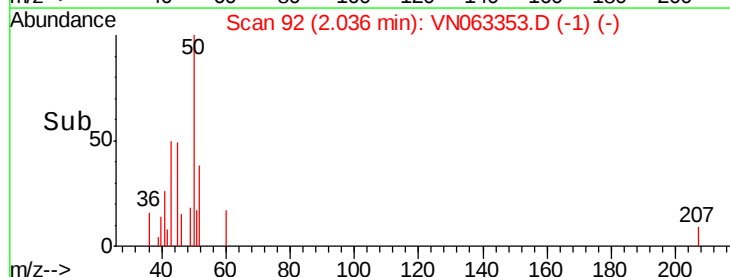
400

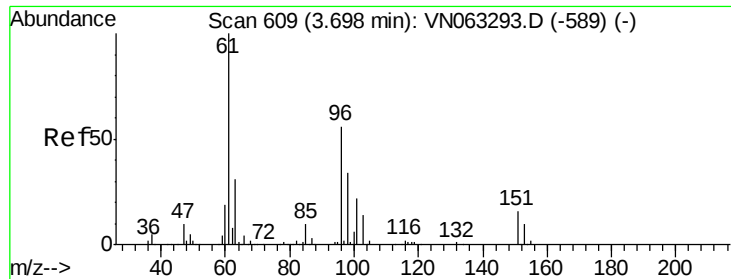
200

0

2.00 2.05

Time-->





#12

1,1-Dichloroethene

Concen: 0.257 ug/l

RT: 3.69 min Scan# 607

Delta R.T. -0.01 min

Lab File: VN063353.D

Acq: 14 Sep 2020 19:42

Instrument :

MSVOA_N

ClientSampleId :

SA-PZ191I-20200910

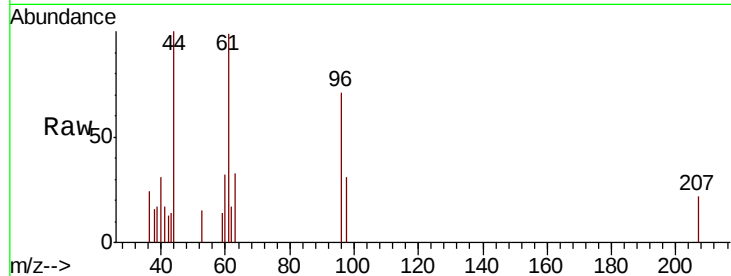
Tot Ion: 96 Resp: 1075

Ion Ratio Lower Upper

96 100

61 117.4 142.1 213.1#

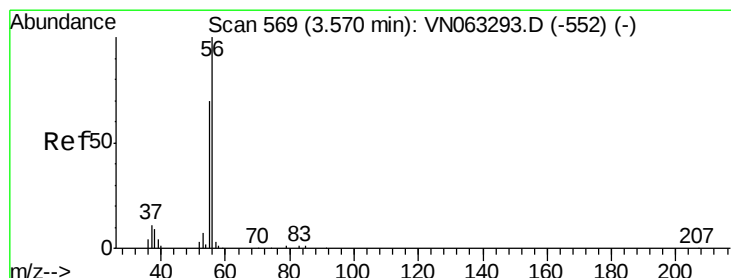
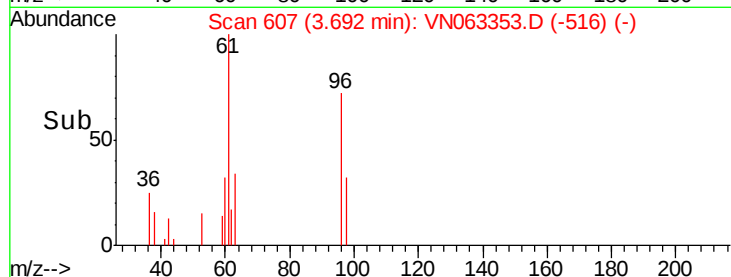
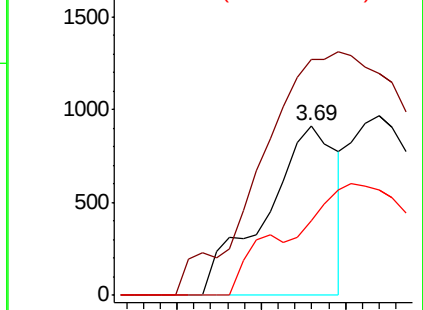
98 44.1 48.8 73.2#



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



#13

Acrolein

Concen: 32.578 ug/l

RT: 3.56 min Scan# 567

Delta R.T. -0.01 min

Lab File: VN063353.D

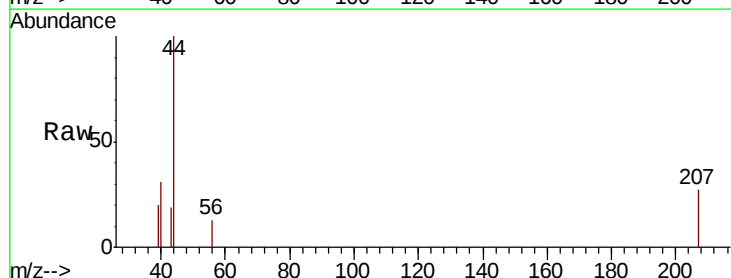
Acq: 14 Sep 2020 19:42

Tgt Ion: 56 Resp: 60

Ion Ratio Lower Upper

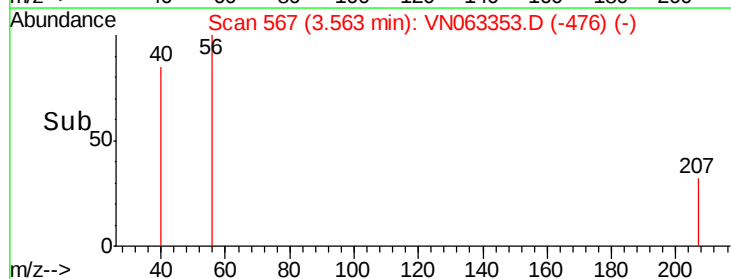
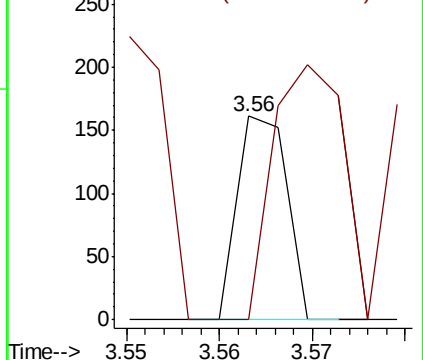
56 100

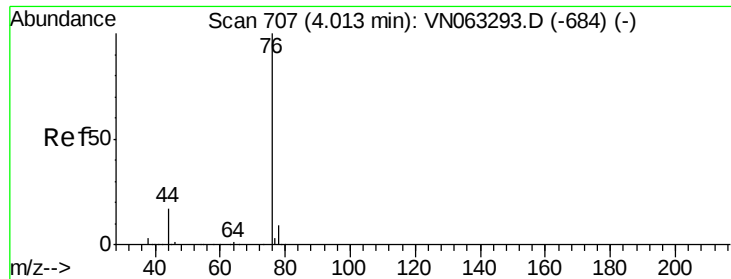
55 176.7 57.2 85.8#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

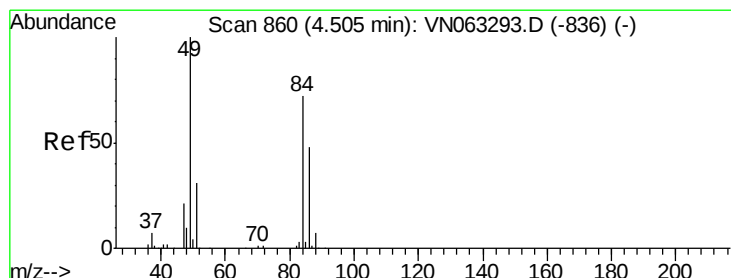
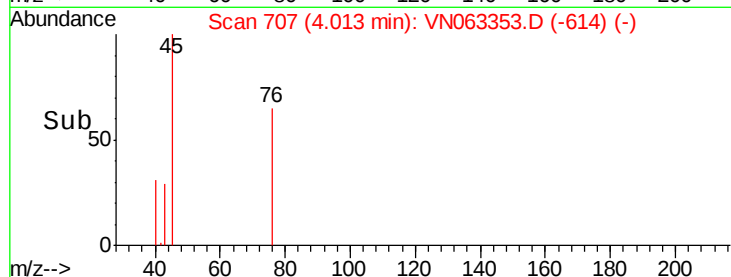
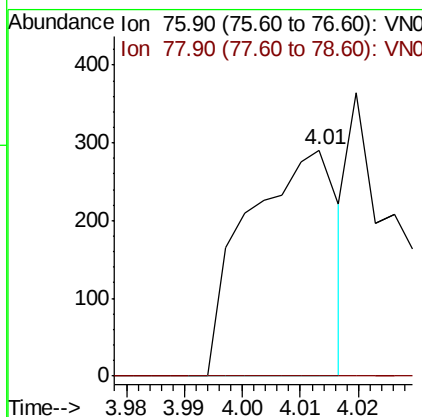
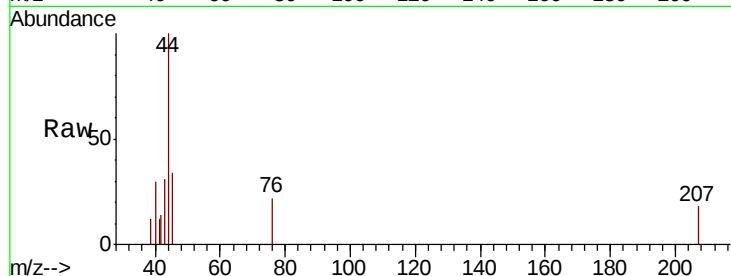




#17
Carbon Disulfide
Concen: Below Cal
RT: 4.01 min Scan# 707
Delta R.T. 0.00 min
Lab File: VN063353.D
Acq: 14 Sep 2020 19:42

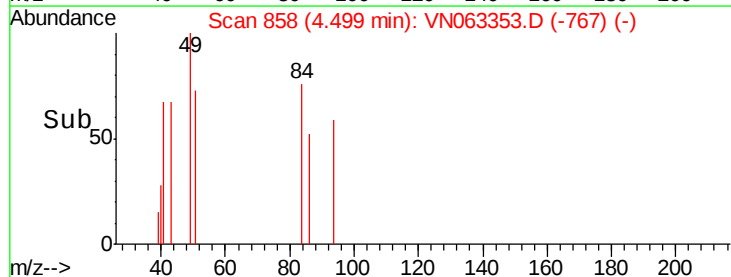
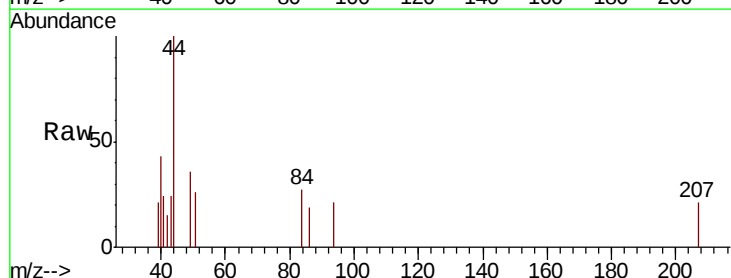
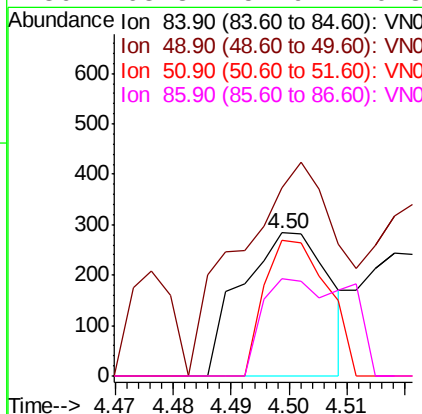
Instrument :
MSVOA_N
ClientSampleId :
SA-PZ191I-20200910

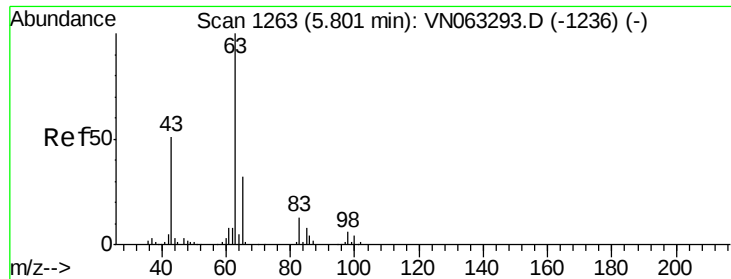
Tot Ion: 76 Resp: 313
Ion Ratio Lower Upper
76 100
78 0.0 7.2 10.8#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.50 min Scan# 858
Delta R.T. -0.01 min
Lab File: VN063353.D
Acq: 14 Sep 2020 19:42

Tgt Ion: 84 Resp: 298
Ion Ratio Lower Upper
84 100
49 131.0 111.1 166.7
51 95.1 34.3 51.5#
86 68.3 52.9 79.3





#24

1,1-Dichloroethane

Concen: 4.060 ug/l

RT: 5.80 min Scan# 1263

Delta R.T. -0.00 min

Lab File: VN063353.D

Acq: 14 Sep 2020 19:42

Instrument :

MSVOA_N

ClientSampleId :

SA-PZ191I-20200910

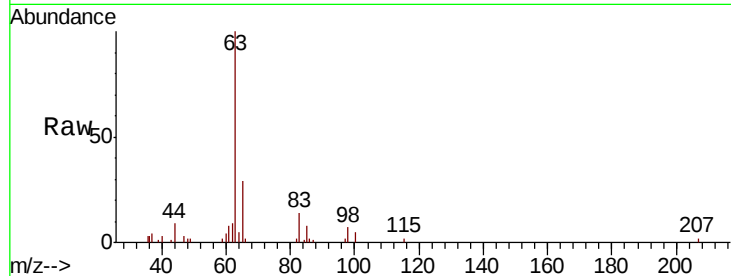
Tot Ion: 63 Resp: 37159

Ion Ratio Lower Upper

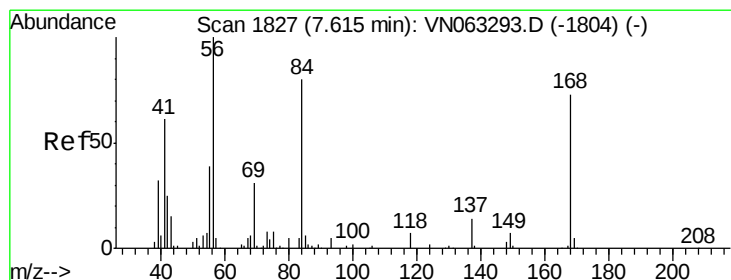
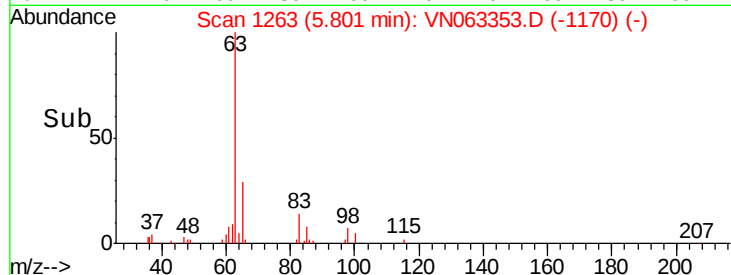
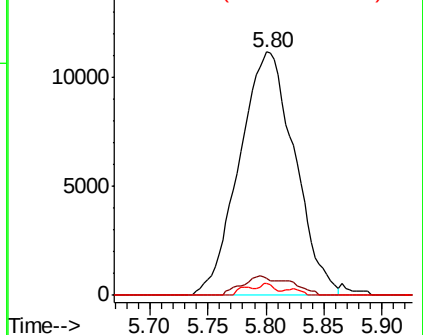
63 100

98 6.8 3.1 9.3

100 5.1 2.0 6.0



Abundance Ion 62.90 (62.60 to 63.60): VN0
Ion 97.90 (97.60 to 98.60): VN0
Ion 99.90 (99.60 to 100.60): VN0



#31

Cyclohexane

Concen: 1.192 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN063353.D

Acq: 14 Sep 2020 19:42

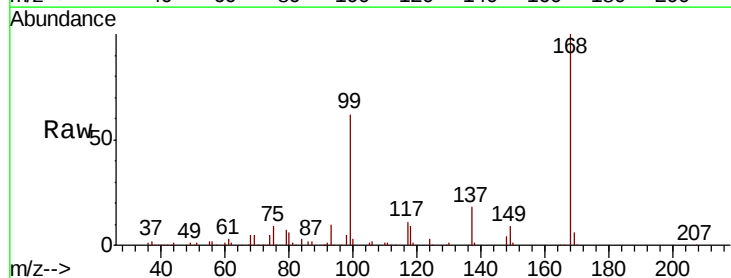
Tgt Ion: 56 Resp: 10027

Ion Ratio Lower Upper

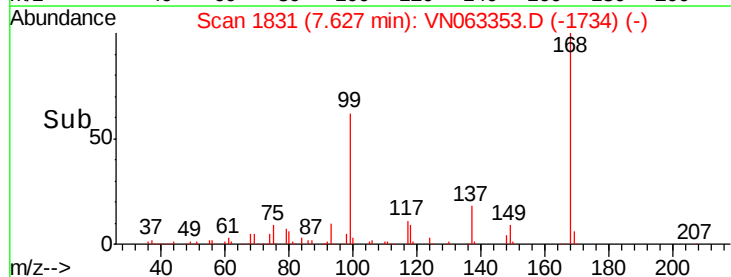
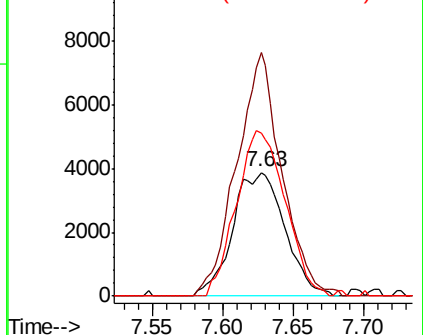
56 100

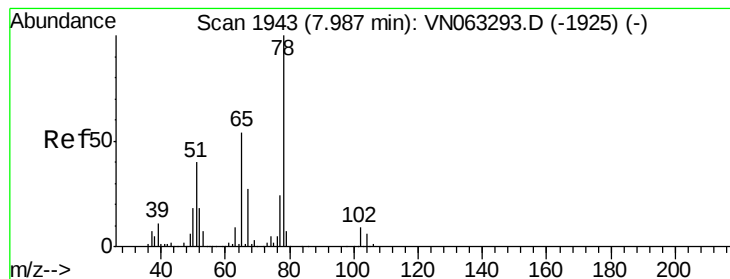
69 196.7 25.1 37.7#

84 132.1 64.2 96.2#



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: 49.906 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. -0.00 min

Lab File: VN063353.D

Acq: 14 Sep 2020 19:42

Instrument :

MSVOA_N

ClientSampleId :

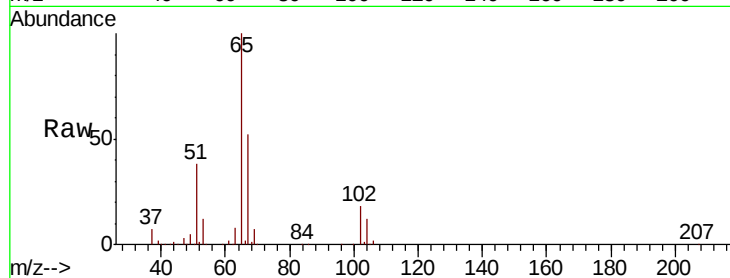
SA-PZ191I-20200910

Tot Ion: 65 Resp: 299320

Ion Ratio Lower Upper

65 100

67 51.4 0.0 104.6



Abundance Ion 64.90 (64.60 to 65.60): VN063353.D (-1925) (-)

Ion 66.90 (66.60 to 67.60): VN063353.D (-1925) (-)

7.99

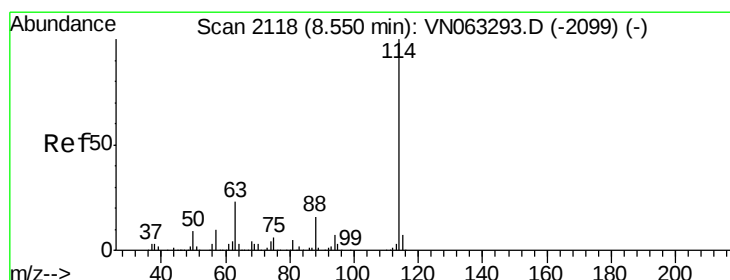
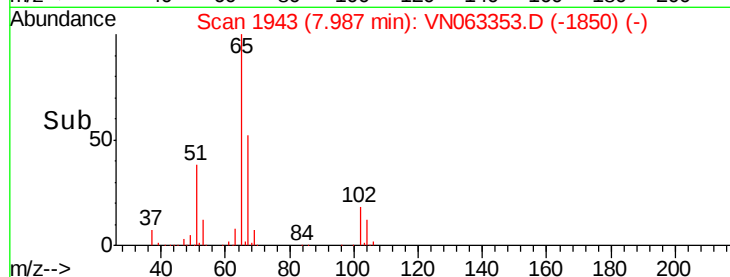
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN063353.D

Acq: 14 Sep 2020 19:42

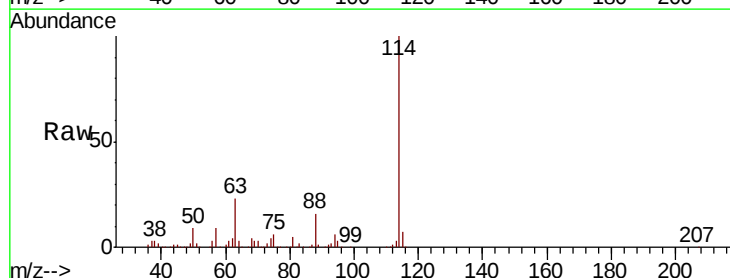
Tgt Ion: 114 Resp: 722415

Ion Ratio Lower Upper

114 100

63 23.1 0.0 46.0

88 16.2 0.0 32.8



Abundance Ion 113.90 (113.60 to 114.60): VN063353.D (-2099) (-)

Ion 63.00 (62.70 to 63.70): VN063353.D (-2099) (-)

Ion 87.90 (87.60 to 88.60): VN063353.D (-2099) (-)

8.55

400000

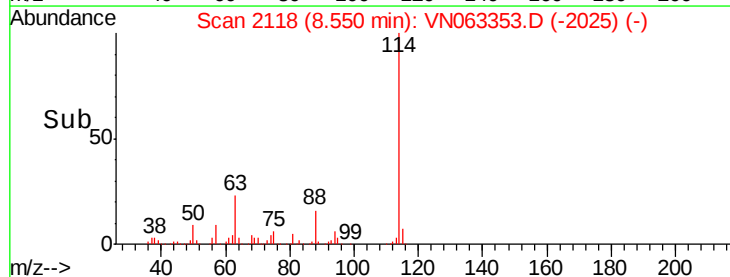
300000

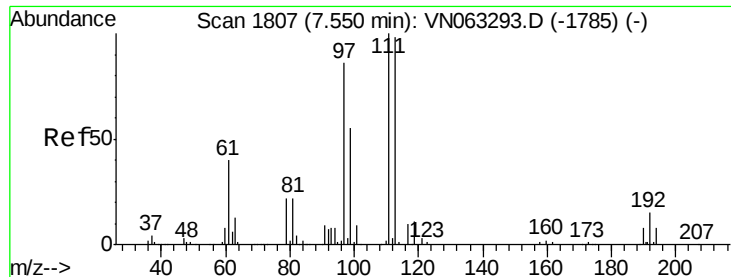
200000

100000

0

Time-->

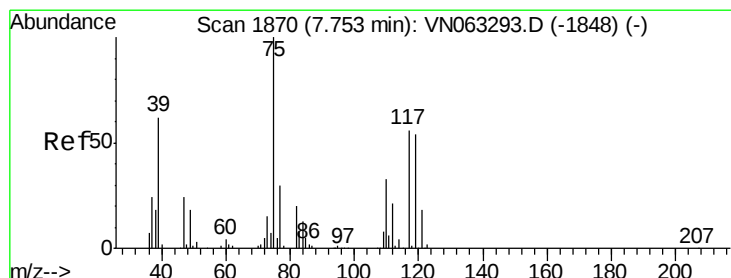
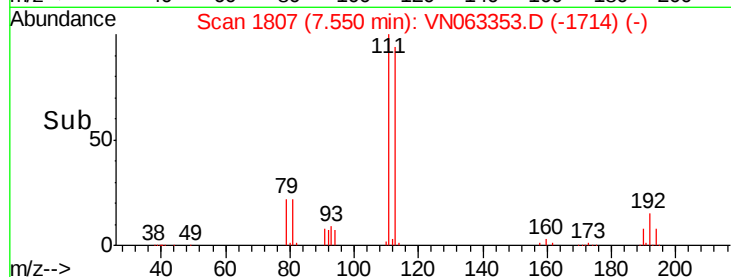
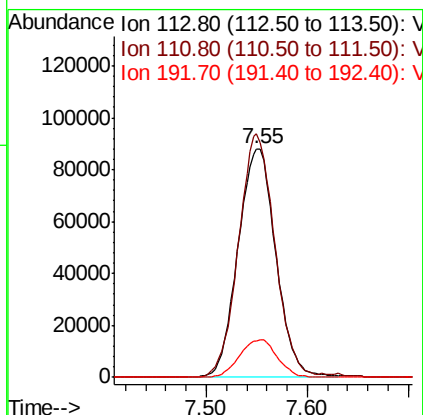
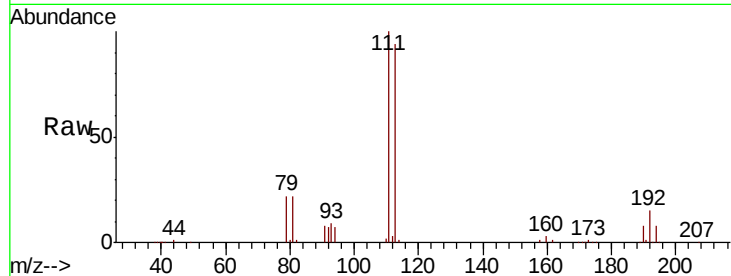




#35
 Dibromofluoromethane
 Concen: 49.052 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. -0.00 min
 Lab File: VN063353.D
 Acq: 14 Sep 2020 19:42

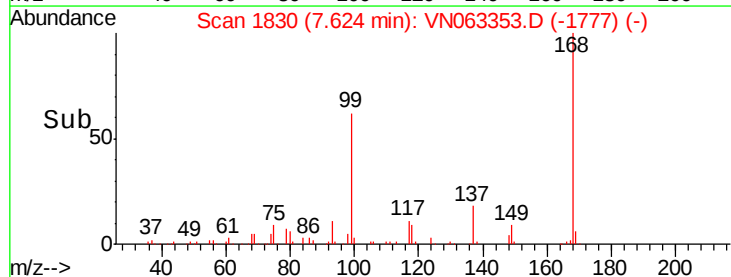
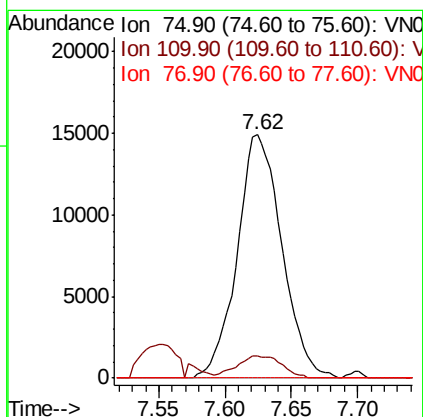
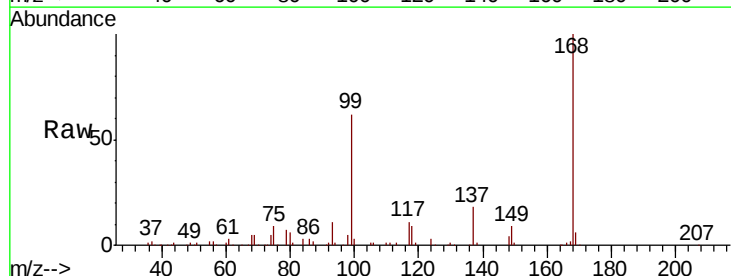
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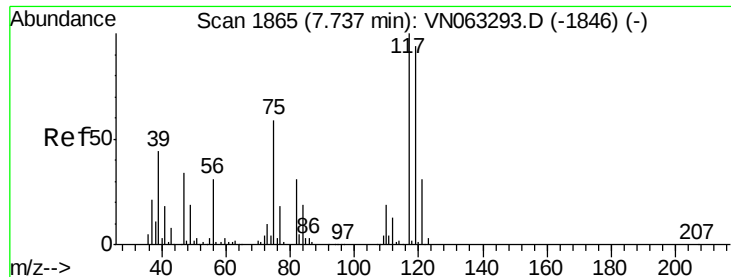
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.6	82.2	123.2
192	16.5	12.9	19.3



#36
 1,1-Dichloropropene
 Concen: 4.718 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN063353.D
 Acq: 14 Sep 2020 19:42

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.2	16.4	49.4#
77	0.0	24.8	37.2#





#38

Carbon Tetrachloride

Concen: 5.616 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN063353.D

Acq: 14 Sep 2020 19:42

Instrument :

MSVOA_N

ClientSampleId :

SA-PZ191I-20200910

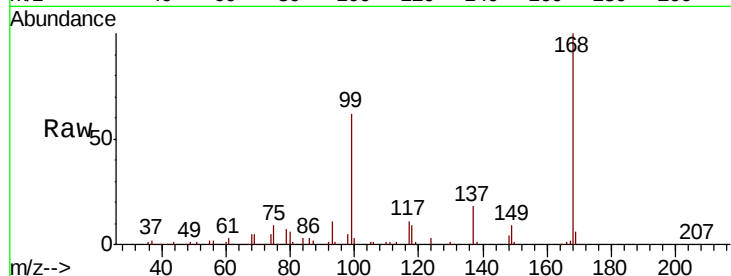
Tot Ion:117 Resp: 41040

Ion Ratio Lower Upper

117 100

119 5.1 75.3 112.9#

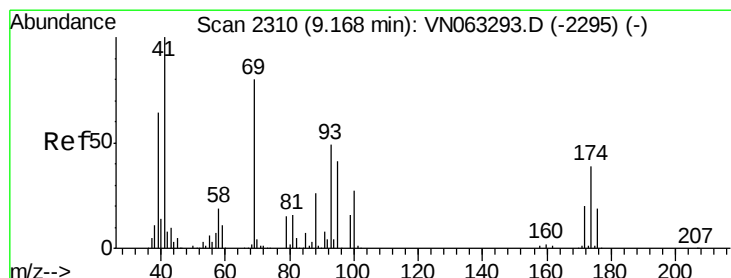
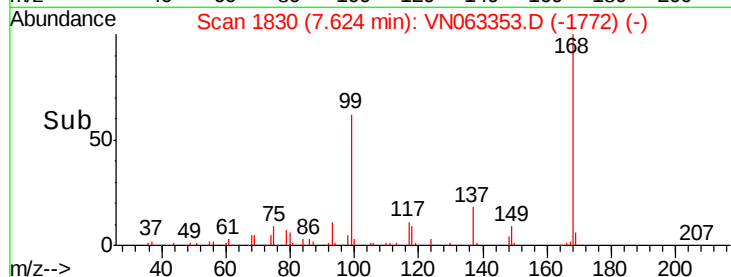
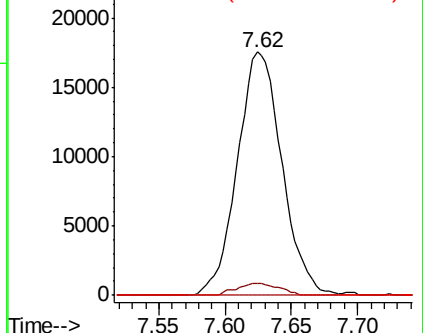
121 0.0 24.6 37.0#



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: 0.864 ug/l

RT: 9.17 min Scan# 2311

Delta R.T. 0.00 min

Lab File: VN063353.D

Acq: 14 Sep 2020 19:42

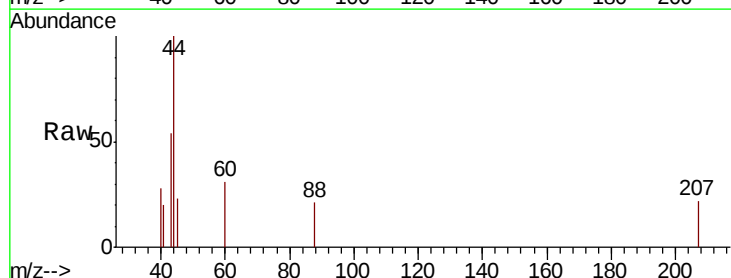
Tgt Ion: 88 Resp: 79

Ion Ratio Lower Upper

88 100

43 551.9 30.5 45.7#

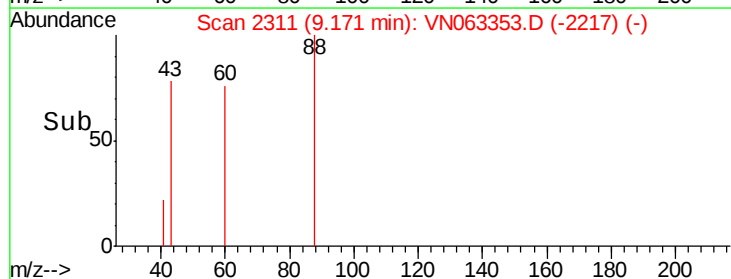
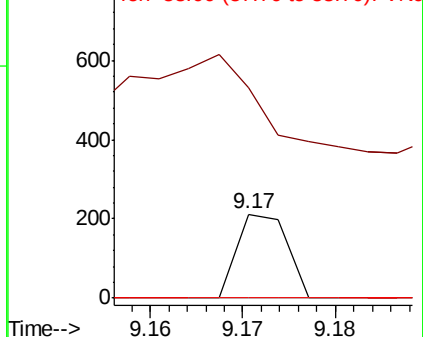
58 0.0 58.9 88.3#

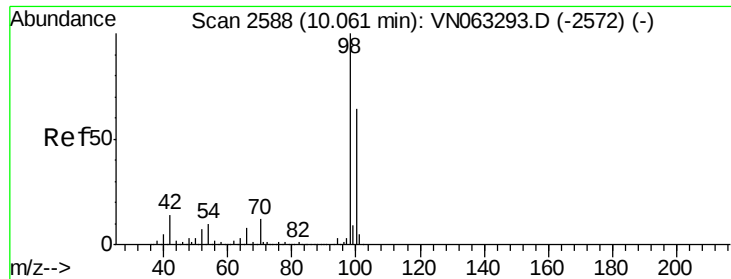


Abundance Ion 88.00 (87.70 to 88.70): VNO

Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO





#50

Toluene-d8

Concen: 51.196 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. -0.00 min

Lab File: VN063353.D

Acq: 14 Sep 2020 19:42

Instrument :

MSVOA_N

ClientSampleId :

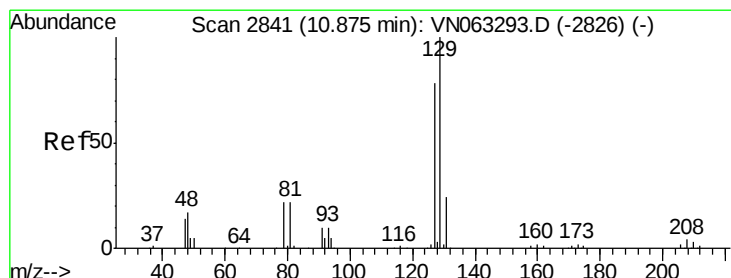
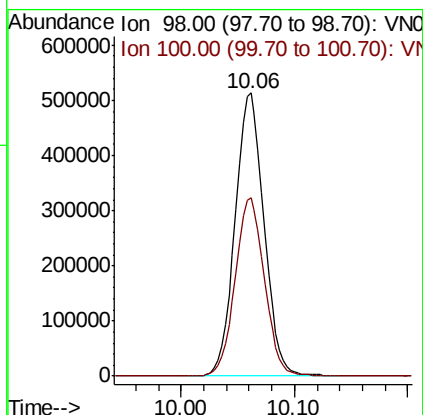
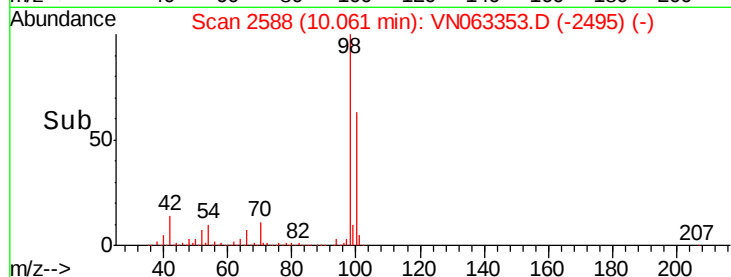
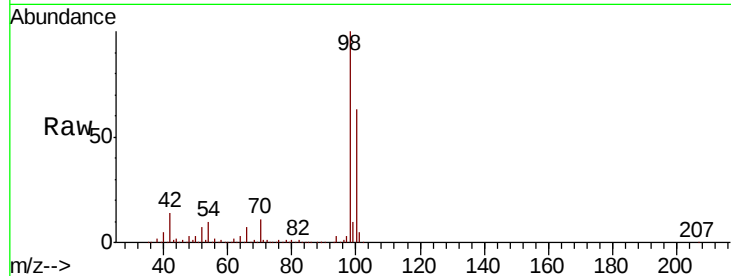
SA-PZ191I-20200910

Tot Ion: 98 Resp: 914375

Ion Ratio Lower Upper

98 100

100 64.0 50.7 76.1



#60

Dibromochloromethane

Concen: 0.315 ug/l

RT: 10.60 min Scan# 2757

Delta R.T. -0.27 min

Lab File: VN063353.D

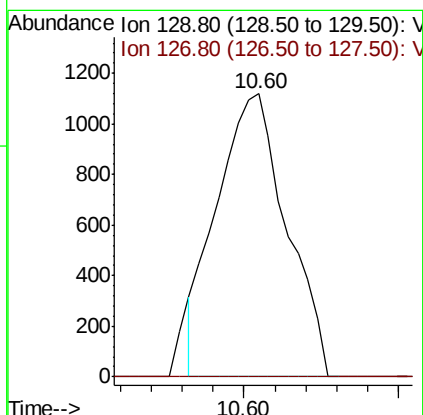
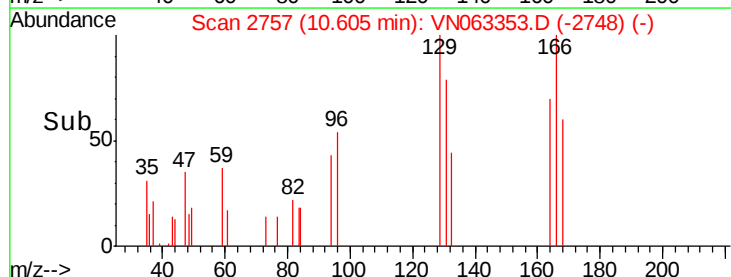
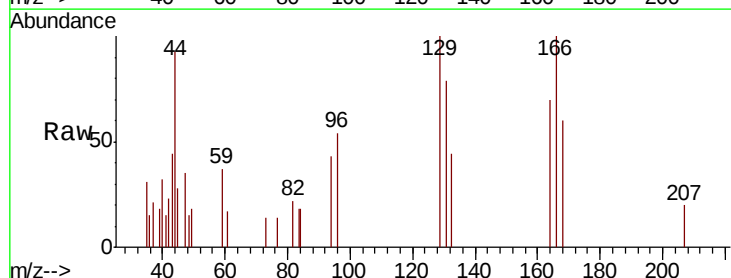
Acq: 14 Sep 2020 19:42

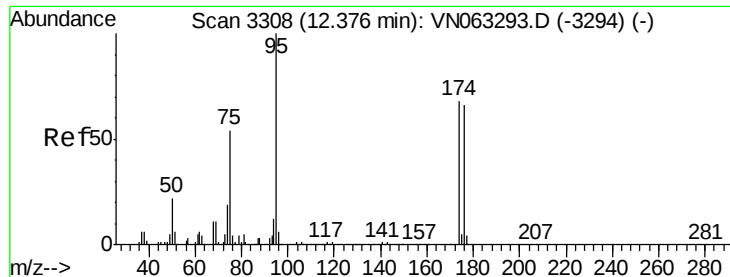
Tgt Ion: 129 Resp: 1757

Ion Ratio Lower Upper

129 100

127 0.0 39.0 117.0#

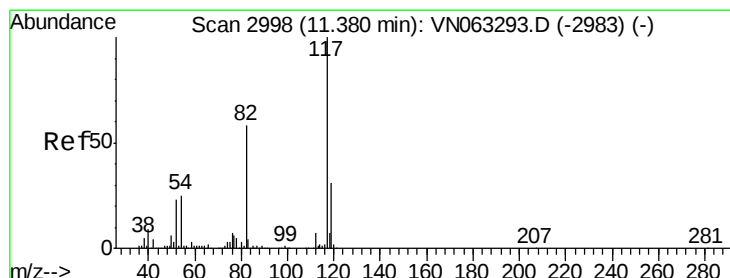
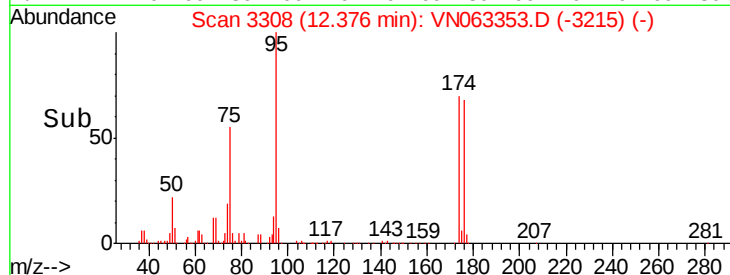
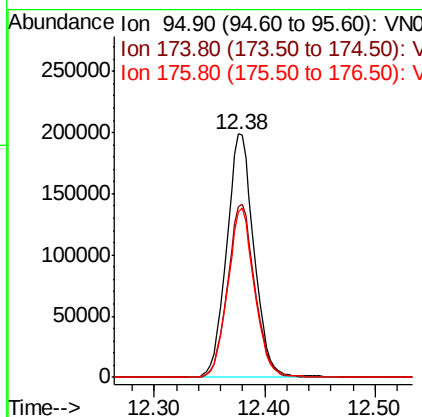
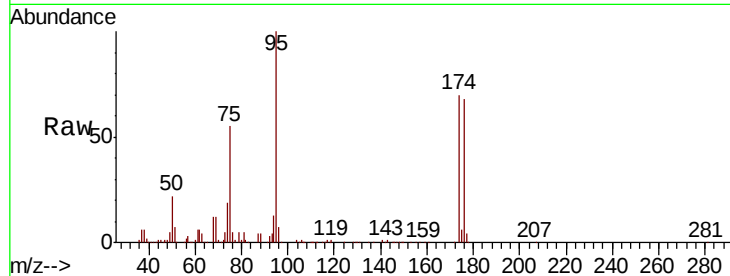




#62
4-Bromofluorobenzene
Concen: 51.849 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.00 min
Lab File: VN063353.D
Acq: 14 Sep 2020 19:42

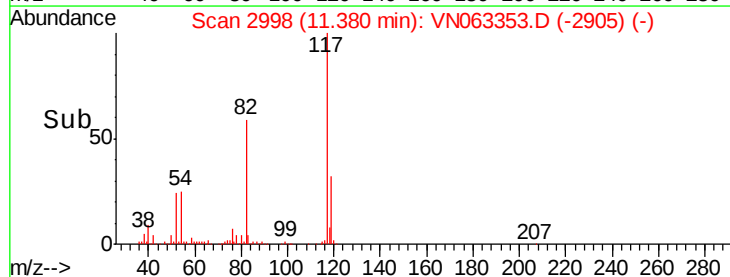
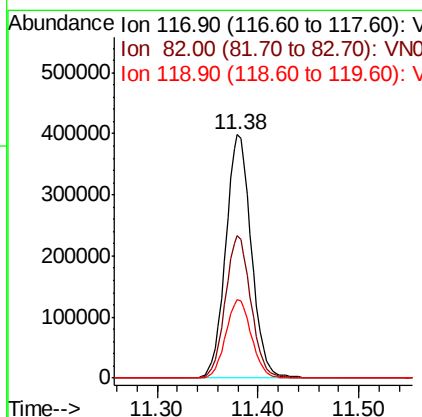
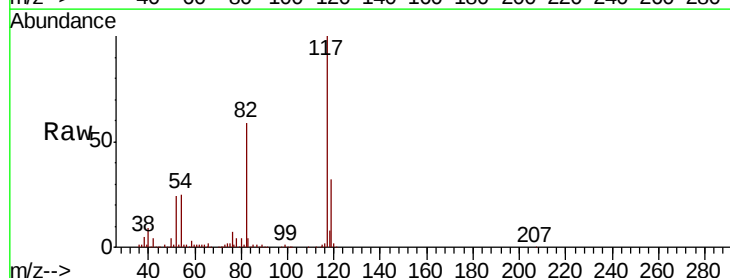
Instrument :
MSVOA_N
ClientSampleId :
SA-PZ191I-20200910

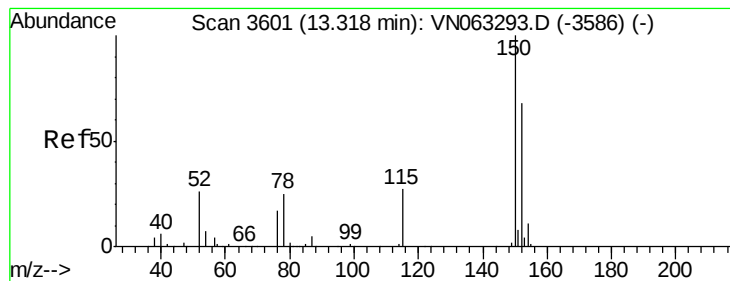
Tot Ion: 95 Resp: 342031
Ion Ratio Lower Upper
95 100
174 70.9 0.0 136.6
176 68.0 0.0 132.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063353.D
Acq: 14 Sep 2020 19:42

Tgt Ion: 117 Resp: 707397
Ion Ratio Lower Upper
117 100
82 58.6 46.4 69.6
119 32.1 24.8 37.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. -0.00 min

Lab File: VN063353.D

Acq: 14 Sep 2020 19:42

Instrument :

MSVOA_N

ClientSampleId :

SA-PZ191I-20200910

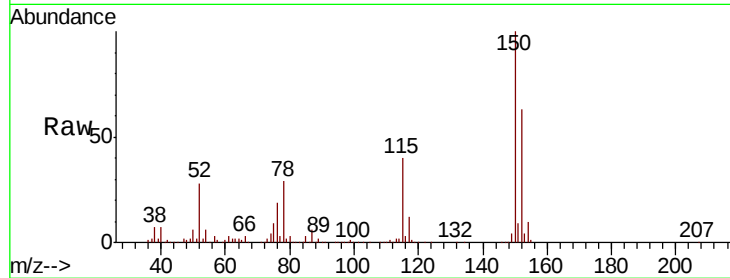
Tot Ion:152 Resp: 287523

Ion Ratio Lower Upper

152 100

115 62.3 31.5 94.5

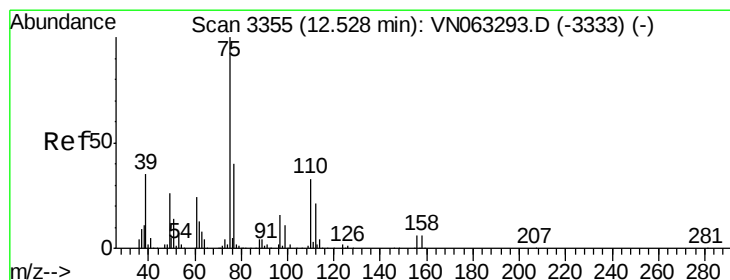
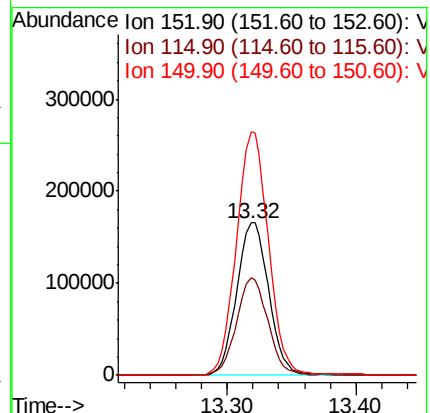
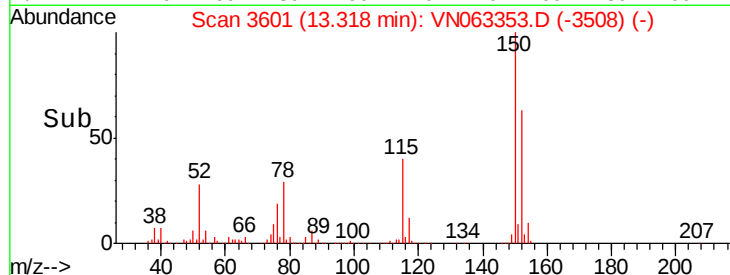
150 158.6 0.0 344.0



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: 29.387 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063353.D

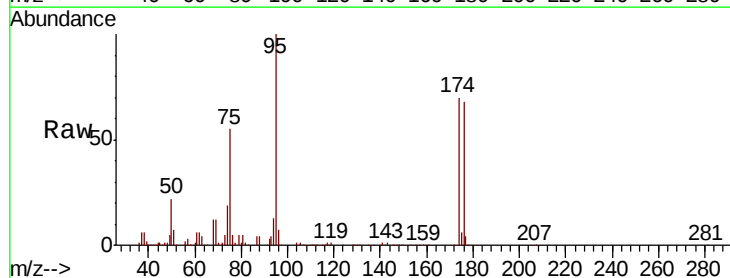
Acq: 14 Sep 2020 19:42

Tgt Ion: 75 Resp: 186405

Ion Ratio Lower Upper

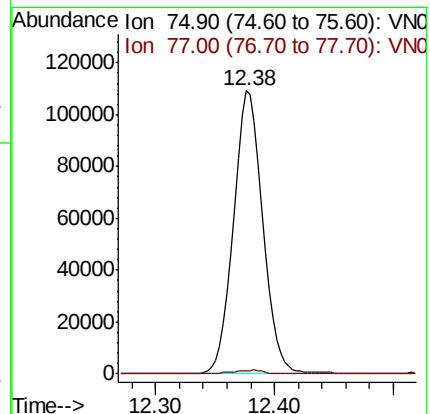
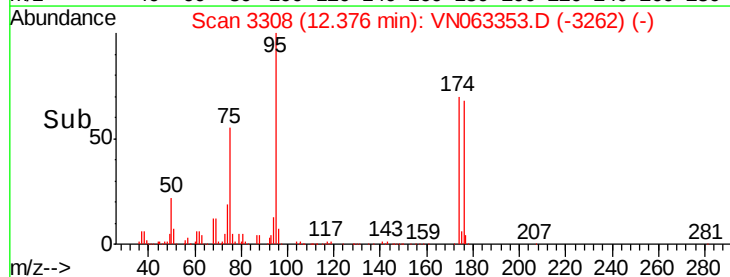
75 100

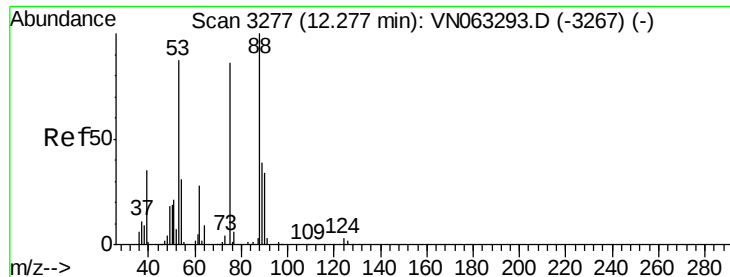
77 1.3 0.0 0.0#



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: 78.956 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063353.D

Acq: 14 Sep 2020 19:42

Instrument :

MSVOA_N

ClientSampleId :

SA-PZ191I-20200910

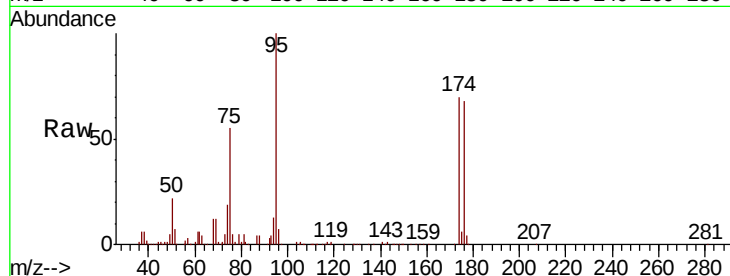
Tot Ion: 75 Resp: 186405

Ion Ratio Lower Upper

75 100

53 0.0 81.8 122.8#

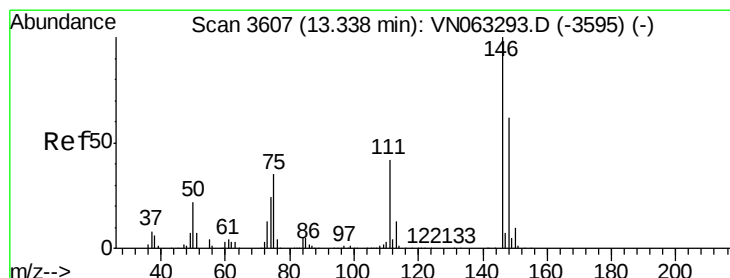
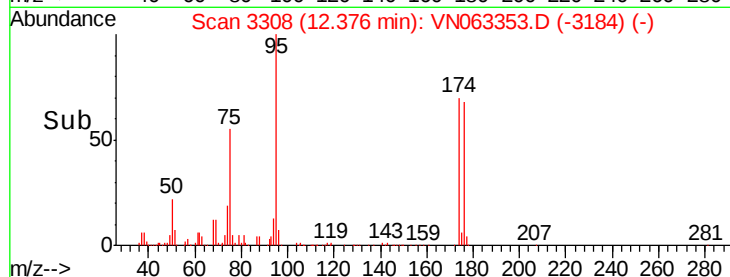
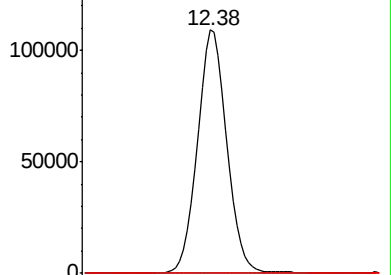
89 0.0 36.7 55.1#



Abundance Ion 74.90 (74.60 to 75.60): VN063353.D (-3184) (-)

Ion 53.00 (52.70 to 53.70): VN063353.D (-3184) (-)

Ion 88.90 (88.60 to 89.60): VN063353.D (-3184) (-)



#88

1,4-Dichlorobenzene

Concen: Below Cal

RT: 13.26 min Scan# 3583

Delta R.T. -0.08 min

Lab File: VN063353.D

Acq: 14 Sep 2020 19:42

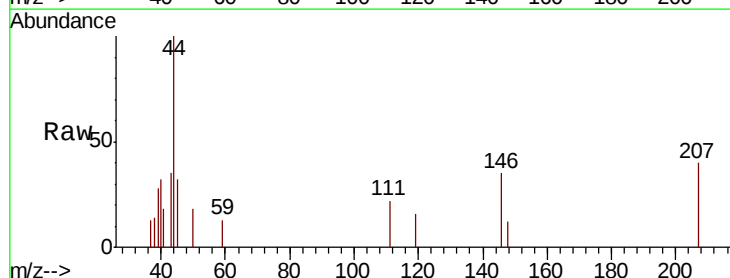
Tgt Ion: 146 Resp: 372

Ion Ratio Lower Upper

146 100

111 57.3 21.3 64.0

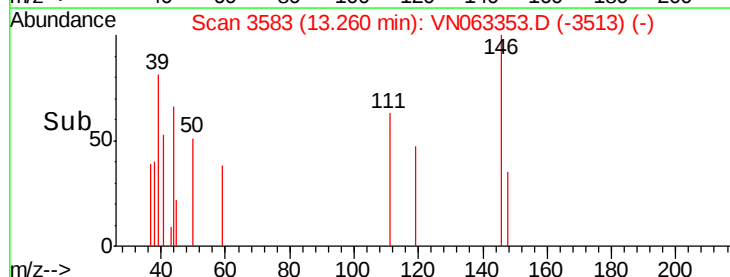
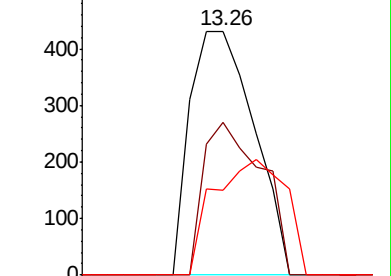
148 53.0 31.5 94.5

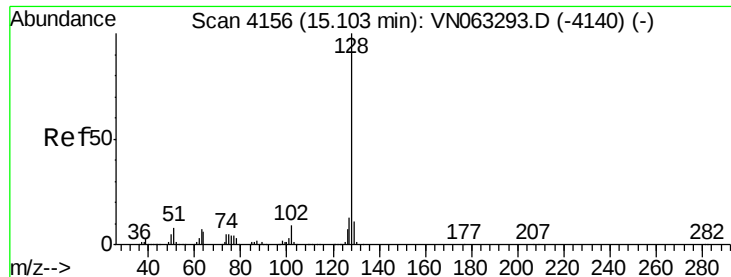


Abundance Ion 145.90 (145.60 to 146.60): VN063353.D (-3513) (-)

Ion 110.90 (110.60 to 111.60): VN063353.D (-3513) (-)

Ion 147.90 (147.60 to 148.60): VN063353.D (-3513) (-)

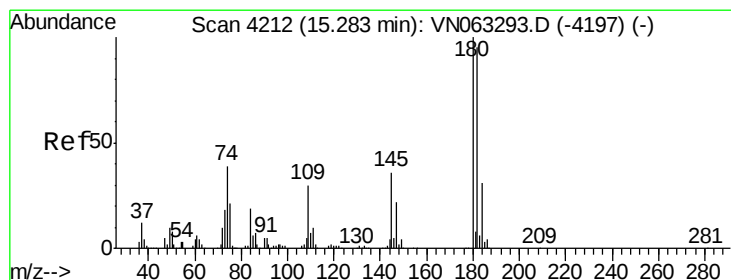
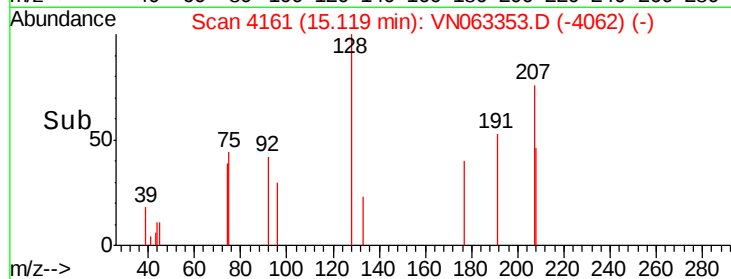
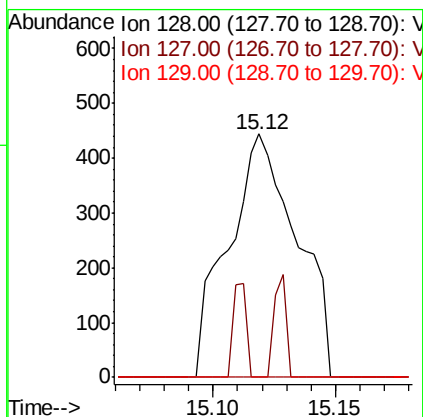
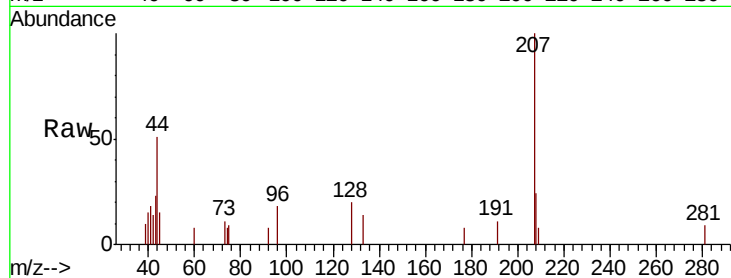




#95
Naphthalene
Concen: Below Cal
RT: 15.12 min Scan# 4161
Delta R.T. 0.02 min
Lab File: VN063353.D
Acq: 14 Sep 2020 19:42

Instrument :
MSVOA_N
ClientSampleId :
SA-PZ191I-20200910

Tot Ion:128 Resp: 866
Ion Ratio Lower Upper
128 100
127 7.6 10.3 15.5#
129 0.0 8.6 12.8#



#96
1,2,3-Trichlorobenzene
Concen: Below Cal
RT: 15.30 min Scan# 4216
Delta R.T. 0.01 min
Lab File: VN063353.D
Acq: 14 Sep 2020 19:42

Tgt Ion:180 Resp: 95
Ion Ratio Lower Upper
180 100
182 124.2 47.4 142.3
145 109.5 17.2 51.6#

