

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091420\
 Data File : VN063352.D
 Acq On : 14 Sep 2020 19:18
 Operator : JC/MD
 Sample : L3988-17
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SA-PZ189I-20200909

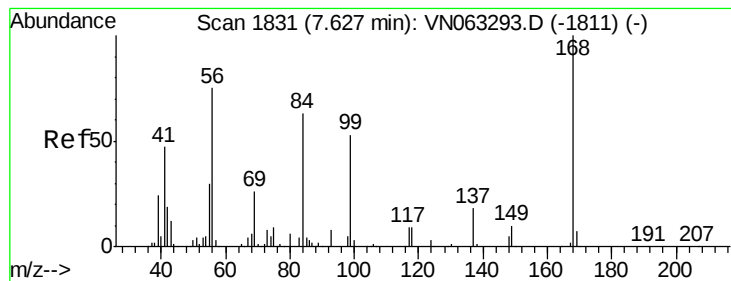
Quant Time: Sep 15 05:14:04 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091020W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 11 06:02:56 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	385125	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	707303	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	705608	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	276576	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	291660	48.20	ug/l	0.00
Spiked Amount						
			Recovery	=	96.40%	
35) Dibromofluoromethane	7.55	113	227244	49.80	ug/l	0.00
Spiked Amount						
			Recovery	=	99.60%	
50) Toluene-d8	10.06	98	913392	52.23	ug/l	0.00
Spiked Amount						
			Recovery	=	104.46%	
62) 4-Bromofluorobenzene	12.38	95	338083	52.35	ug/l	0.00
Spiked Amount						
			Recovery	=	104.70%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	1706	Below Cal		97
13) Acrolein	3.56	56	63	32.583	ug/l #	1
16) Acetone	3.78	43	687	0.329	ug/l #	46
17) Carbon Disulfide	4.02	76	445	Below Cal	#	75
20) Methylene Chloride	4.49	84	153	Below Cal	#	36
24) 1,1-Dichloroethane	5.81	63	18398	1.993	ug/l	99
31) Cyclohexane	7.63	56	10789	1.271	ug/l #	29
36) 1,1-Dichloropropene	7.63	75	35349	4.862	ug/l #	53
38) Carbon Tetrachloride	7.63	117	42885	5.993	ug/l #	17
49) 1,4-Dioxane	9.17	88	280	3.129	ug/l #	87
60) Dibromochloromethane	10.60	129	1868	0.342	ug/l #	10
64) Tetrachloroethene	10.60	164	1862	0.322	ug/l	92
76) 1,2,3-Trichloropropane	12.38	75	185018	30.322	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	185018	81.471	ug/l #	9
84) 1,2,4-Trimethylbenzene	13.14	105	5249	0.281	ug/l #	32
85) sec-Butylbenzene	13.14	105	5249	0.263	ug/l	80
88) 1,4-Dichlorobenzene	13.34	146	2973	Below Cal	#	1
93) 1,2,4-Trichlorobenzene	14.89	180	1521	0.280	ug/l #	47
95) Naphthalene	15.11	128	1630	Below Cal	#	72
96) 1,2,3-Trichlorobenzene	15.29	180	272	Below Cal	#	1

(#) = 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: VN063352.D

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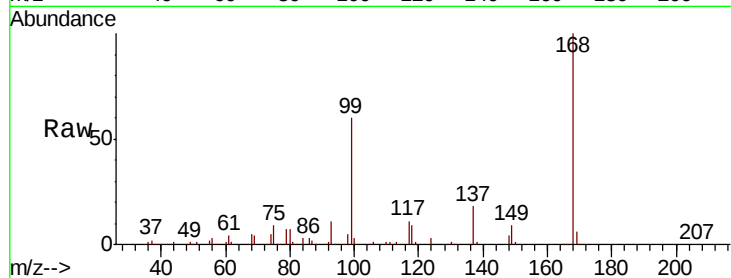
SA-PZ189I-20200909

Tot Ion:168 Resp: 385125

Ion Ratio Lower Upper

168 100

99 60.1 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

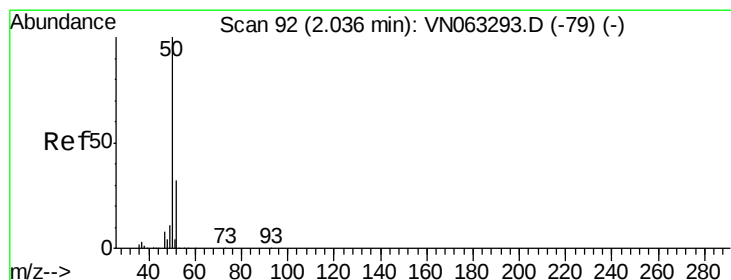
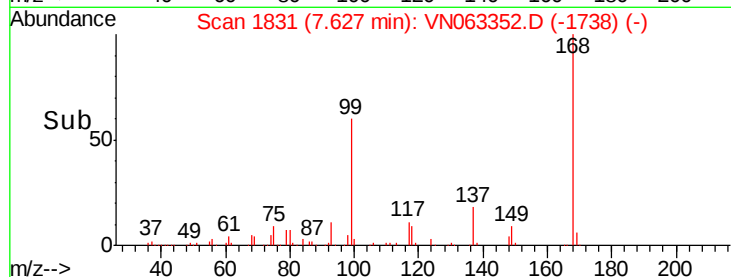
150000

100000

50000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 93

Delta R.T. 0.00 min

Lab File: VN063352.D

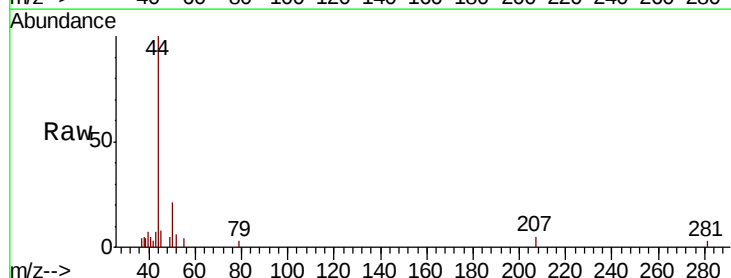
Acq: 14 Sep 2020 19:18

Tgt Ion: 50 Resp: 1706

Ion Ratio Lower Upper

50 100

52 29.9 25.4 38.2



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.04

1200

1000

800

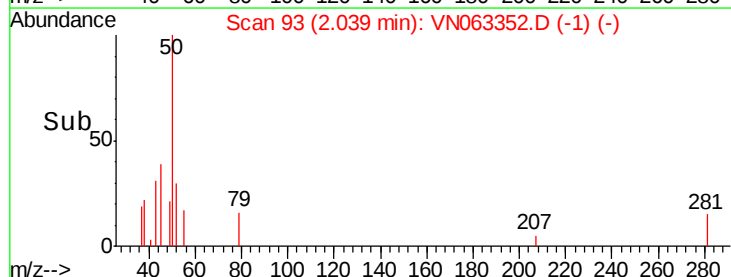
600

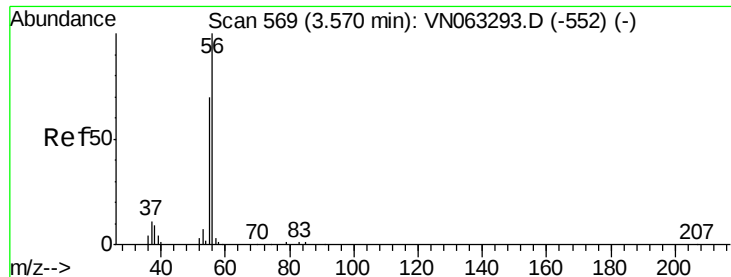
400

200

0

Time--> 2.00 2.05





#13

Acrolein

Concen: 32.583 ug/l

RT: 3.56 min Scan# 567

Delta R.T. -0.01 min

Lab File: VN063352.D

Acq: 14 Sep 2020 19:18

Instrument :

MSVOA_N

ClientSampleId :

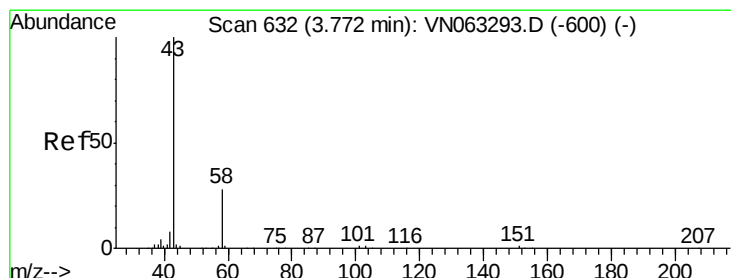
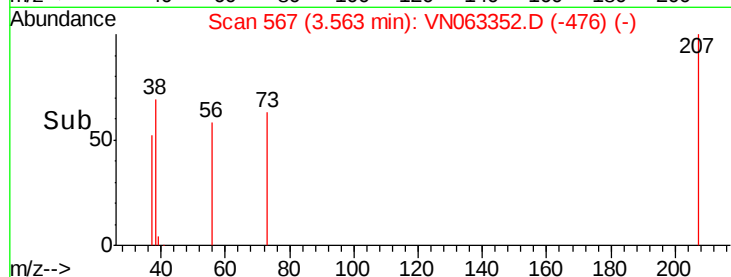
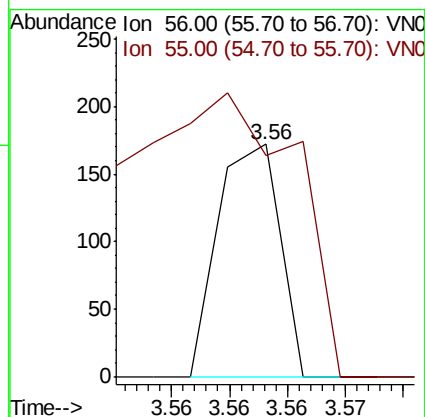
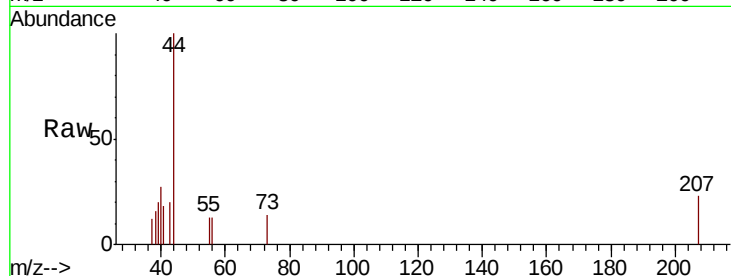
SA-PZ189I-20200909

Tot Ion: 56 Resp: 63

Ion Ratio Lower Upper

56 100

55 277.8 57.2 85.8#



#16

Acetone

Concen: 0.329 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.01 min

Lab File: VN063352.D

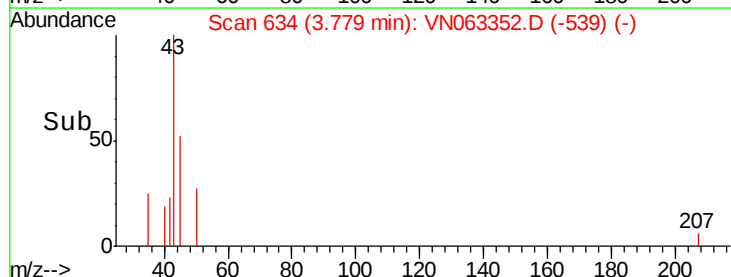
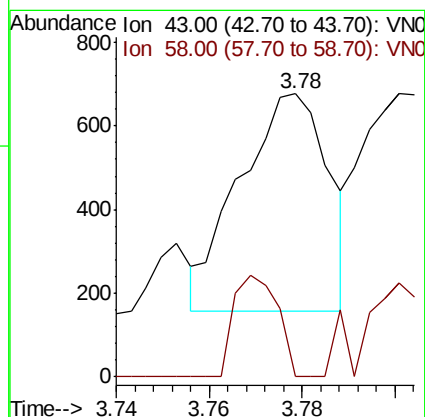
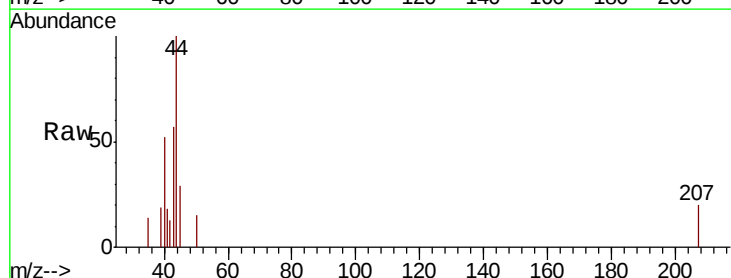
Acq: 14 Sep 2020 19:18

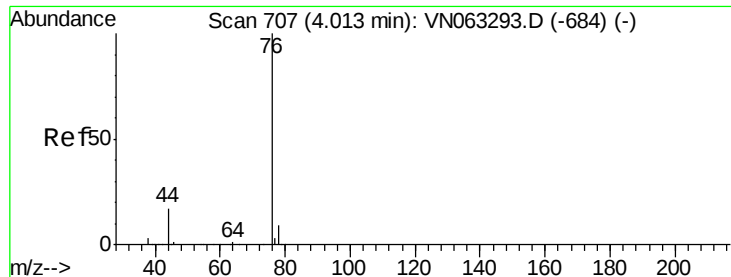
Tgt Ion: 43 Resp: 687

Ion Ratio Lower Upper

43 100

58 0.0 22.6 34.0#

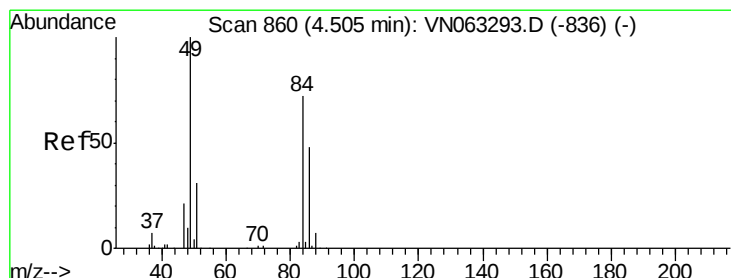
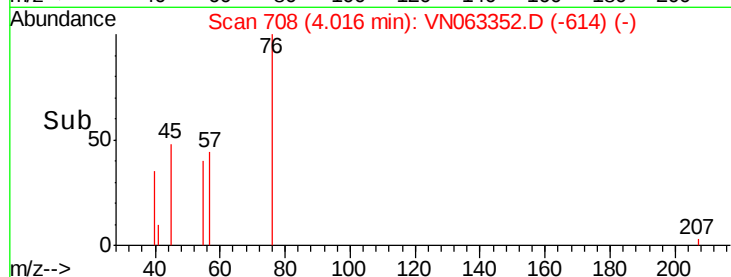
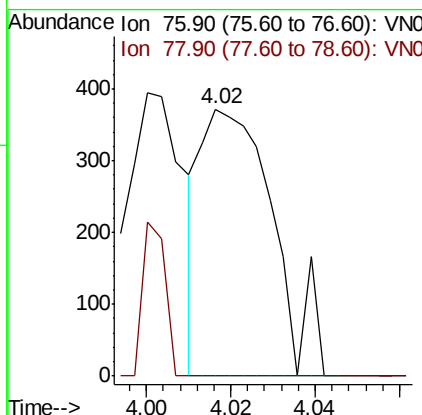
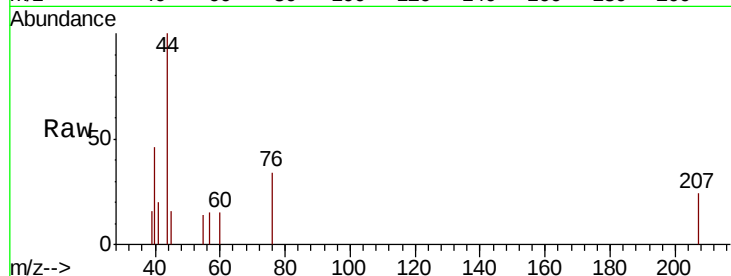




#17
Carbon Disulfide
Concen: Below Cal
RT: 4.02 min Scan# 708
Delta R.T. 0.00 min
Lab File: VN063352.D
Acq: 14 Sep 2020 19:18

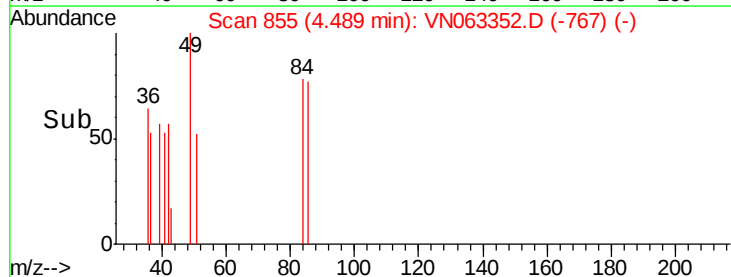
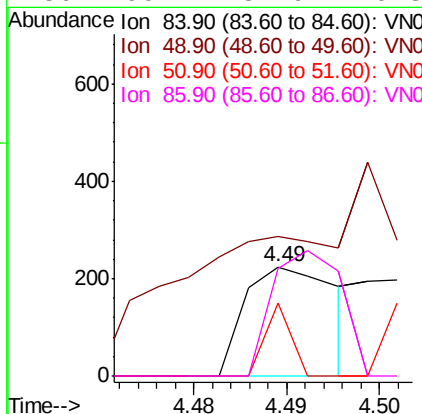
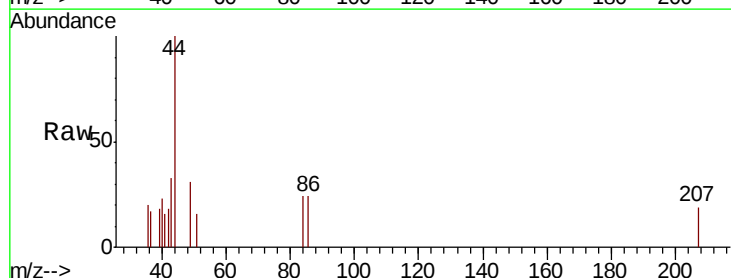
Instrument :
MSVOA_N
ClientSampleId :
SA-PZ189I-20200909

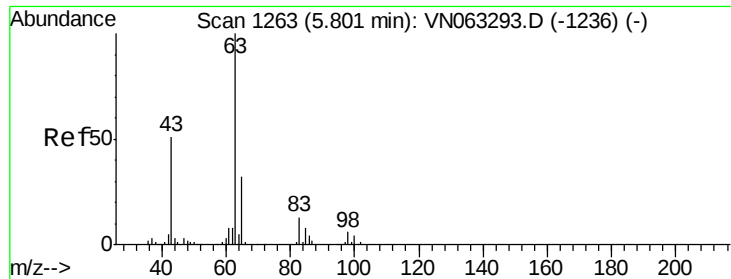
Tot Ion: 76 Resp: 445
Ion Ratio Lower Upper
76 100
78 0.0 7.2 10.8#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.49 min Scan# 855
Delta R.T. -0.02 min
Lab File: VN063352.D
Acq: 14 Sep 2020 19:18

Tgt Ion: 84 Resp: 153
Ion Ratio Lower Upper
84 100
49 38.4 111.1 166.7#
51 67.4 34.3 51.5#
86 99.1 52.9 79.3#





#24

1,1-Dichloroethane

Concen: 1.993 ug/l

RT: 5.81 min Scan# 1265

Delta R.T. 0.01 min

Lab File: VN063352.D

Acq: 14 Sep 2020 19:18

Instrument :

MSVOA_N

ClientSampleId :

SA-PZ189I-20200909

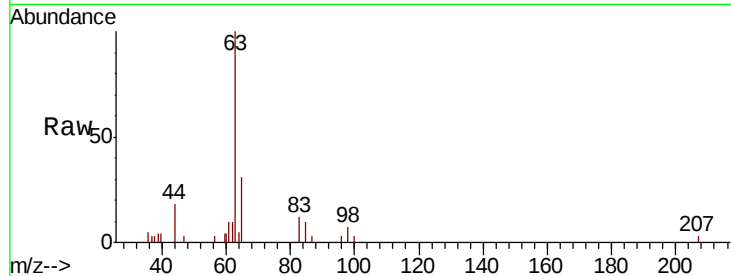
Tot Ion: 63 Resp: 18398

Ion Ratio Lower Upper

63 100

98 6.5 3.1 9.3

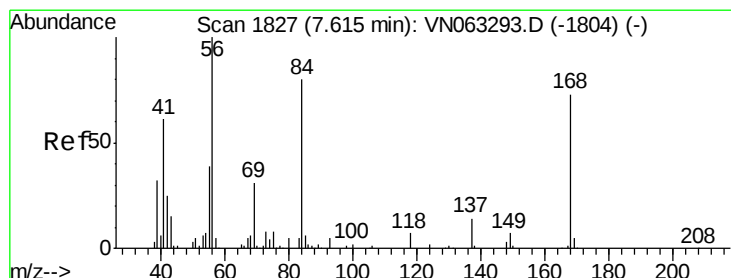
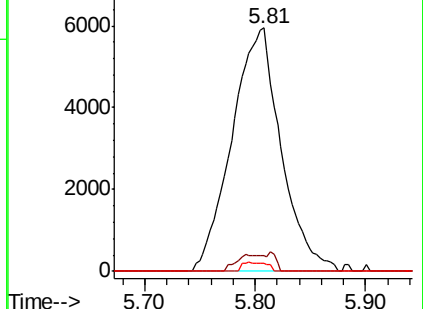
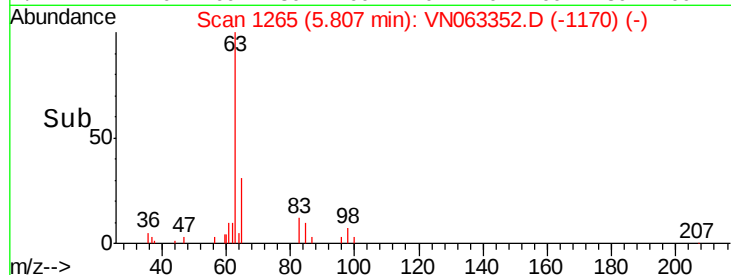
100 3.4 2.0 6.0



Abundance Ion 62.90 (62.60 to 63.60): VN063352.D (-1170) (-)

Ion 97.90 (97.60 to 98.60): VN063352.D (-1170) (-)

Ion 99.90 (99.60 to 100.60): VN063352.D (-1170) (-)



#31

Cyclohexane

Concen: 1.271 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. 0.02 min

Lab File: VN063352.D

Acq: 14 Sep 2020 19:18

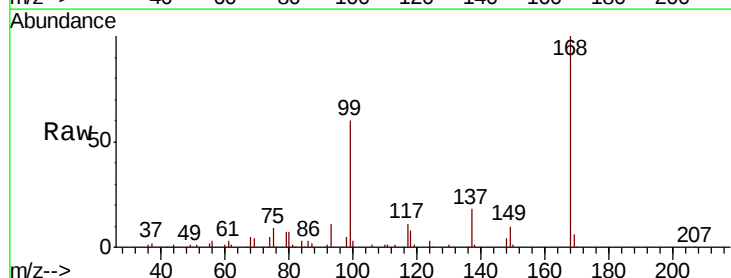
Tgt Ion: 56 Resp: 10789

Ion Ratio Lower Upper

56 100

69 129.3 25.1 37.7#

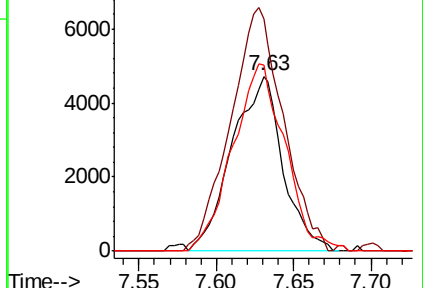
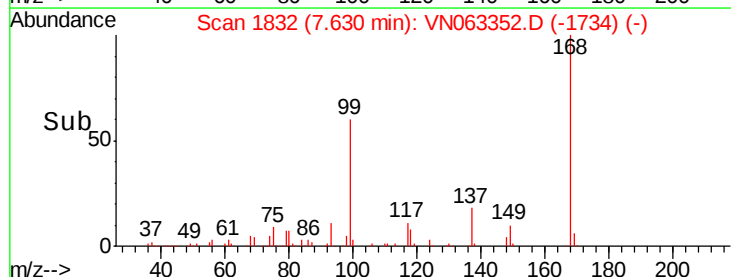
84 106.2 64.2 96.2#

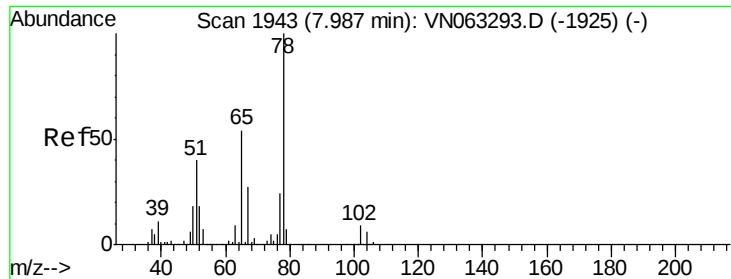


Abundance Ion 56.00 (55.70 to 56.70): VN063352.D (-1734) (-)

Ion 69.00 (68.70 to 69.70): VN063352.D (-1734) (-)

Ion 84.00 (83.70 to 84.70): VN063352.D (-1734) (-)





#33

1,2-Dichloroethane-d4

Concen: 48.202 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. -0.00 min

Lab File: VN063352.D

Acq: 14 Sep 2020 19:18

Instrument :

MSVOA_N

ClientSampleId :

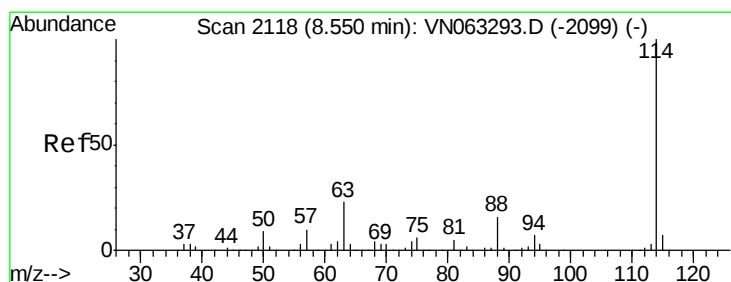
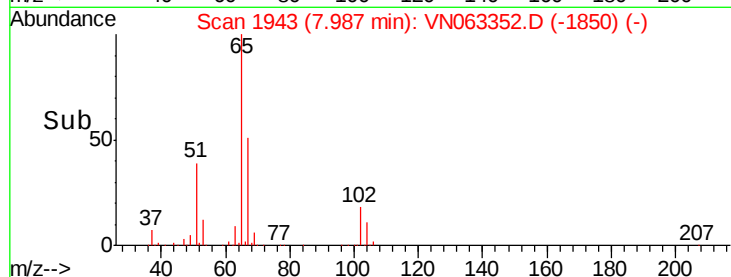
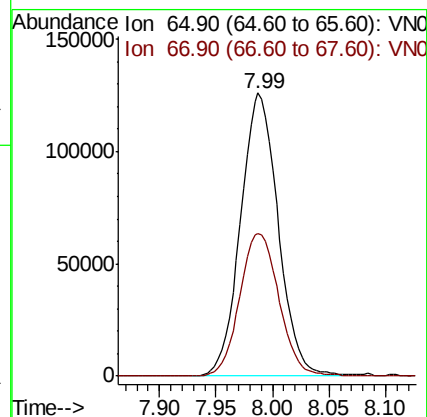
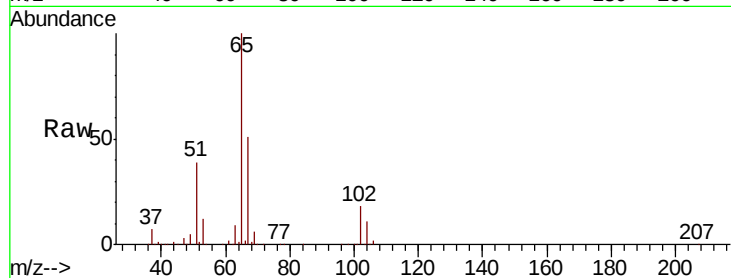
SA-PZ189I-20200909

Tot Ion: 65 Resp: 291660

Ion Ratio Lower Upper

65 100

67 52.8 0.0 104.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN063352.D

Acq: 14 Sep 2020 19:18

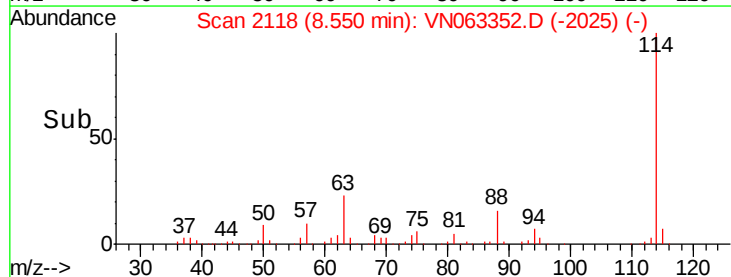
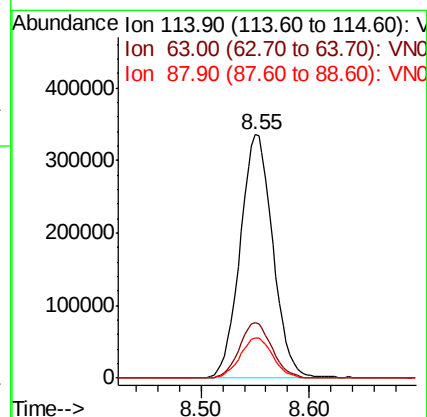
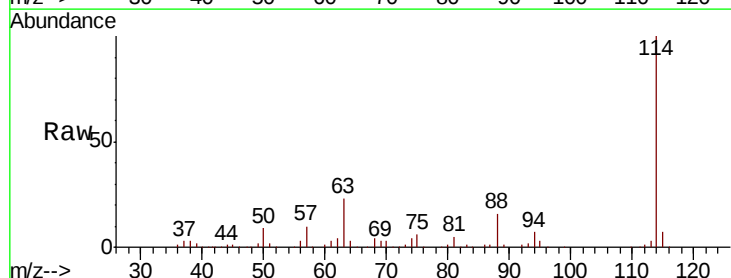
Tgt Ion: 114 Resp: 707303

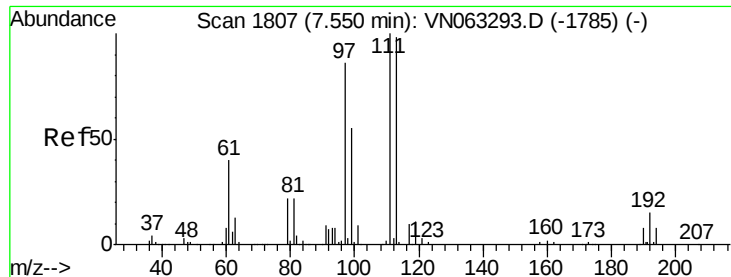
Ion Ratio Lower Upper

114 100

63 22.7 0.0 46.0

88 16.5 0.0 32.8

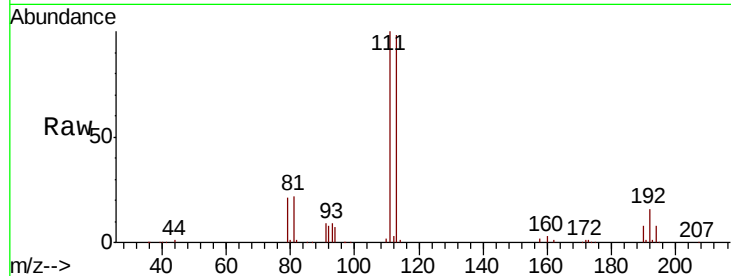




#35
 Dibromofluoromethane
 Concen: 49.801 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. -0.00 min
 Lab File: VN063352.D
 Acq: 14 Sep 2020 19:18

Instrument :
 MSVOA_N
 ClientSampleId :
 SA-PZ189I-20200909

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.8	82.2	123.2
192	16.1	12.9	19.3

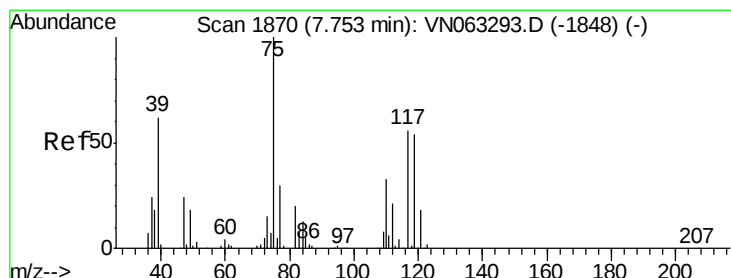
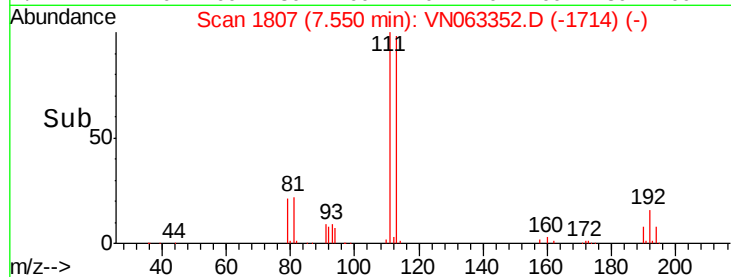
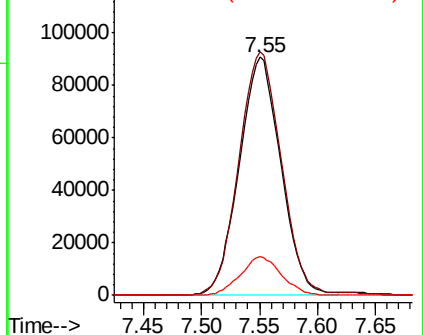


Abundance

Ion 112.80 (112.50 to 113.50): V

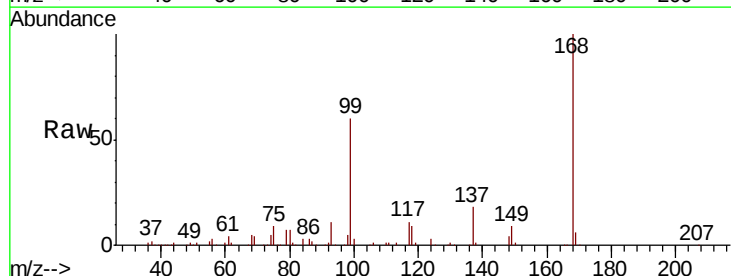
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36
 1,1-Dichloropropene
 Concen: 4.862 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN063352.D
 Acq: 14 Sep 2020 19:18

Tgt Ion	Ratio	Lower	Upper
75	100		
110	11.5	16.4	49.4#
77	0.2	24.8	37.2#

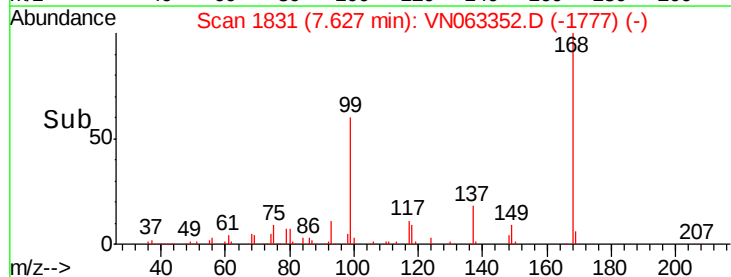
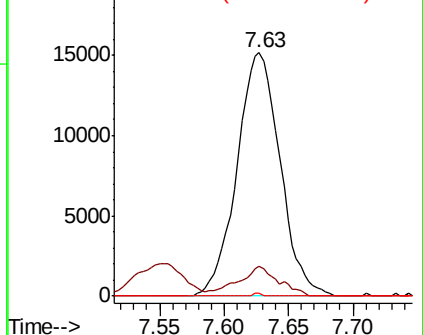


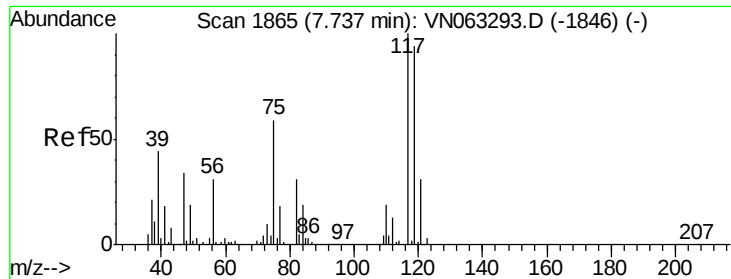
Abundance

Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 5.993 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN063352.D

Acq: 14 Sep 2020 19:18

Instrument :

MSVOA_N

ClientSampleId :

SA-PZ189I-20200909

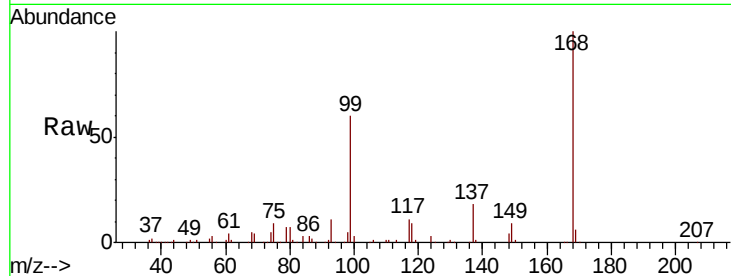
Tot Ion:117 Resp: 42885

Ion Ratio Lower Upper

117 100

119 5.3 75.3 112.9#

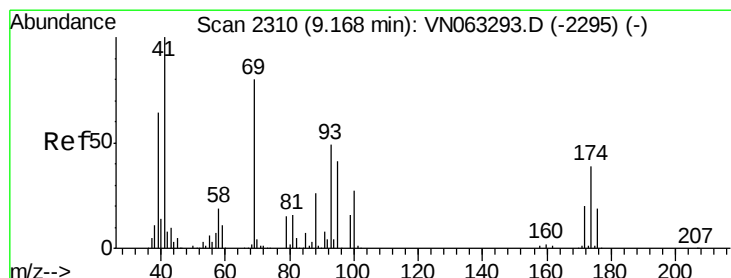
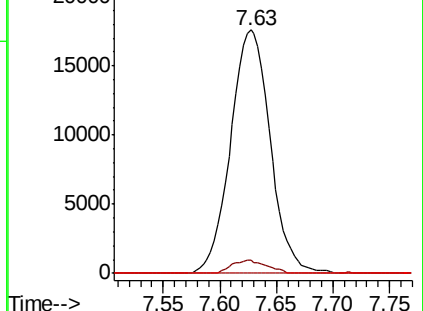
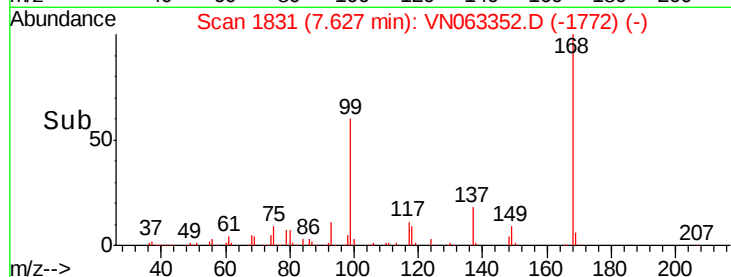
121 0.0 24.6 37.0#



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: 3.129 ug/l

RT: 9.17 min Scan# 2311

Delta R.T. 0.00 min

Lab File: VN063352.D

Acq: 14 Sep 2020 19:18

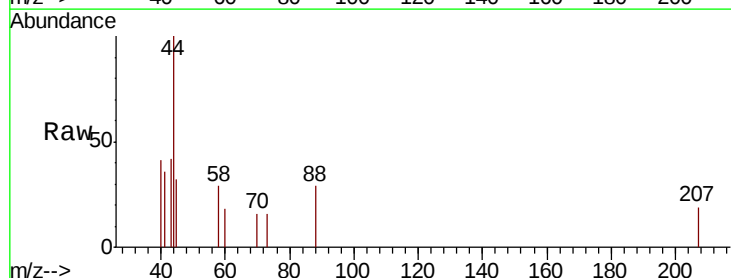
Tgt Ion: 88 Resp: 280

Ion Ratio Lower Upper

88 100

43 56.1 30.5 45.7#

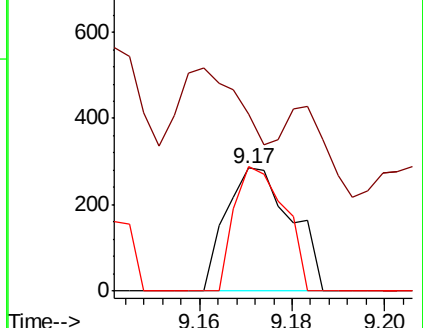
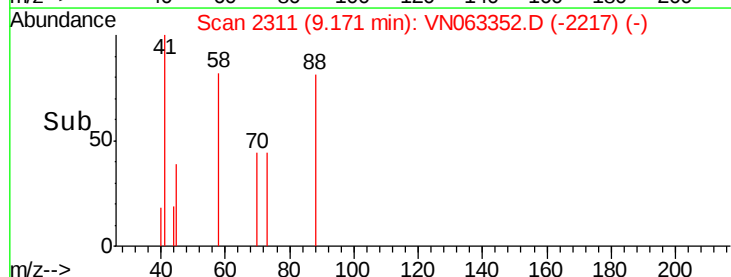
58 77.9 58.9 88.3

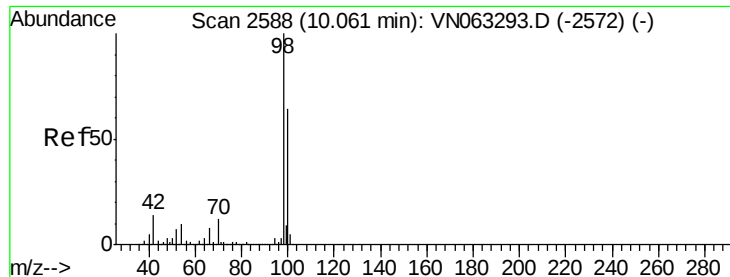


Abundance Ion 88.00 (87.70 to 88.70): VNO

Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO





#50

Toluene-d8

Concen: 52.234 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. -0.00 min

Lab File: VN063352.D

Acq: 14 Sep 2020 19:18

Instrument :

MSVOA_N

ClientSampleId :

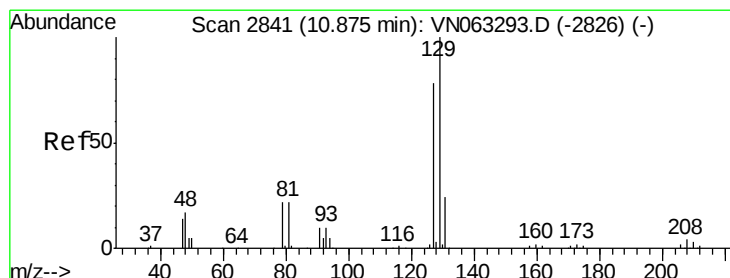
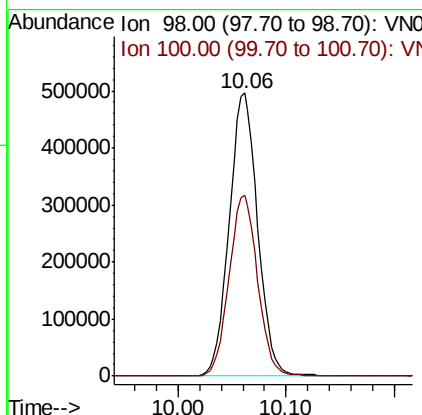
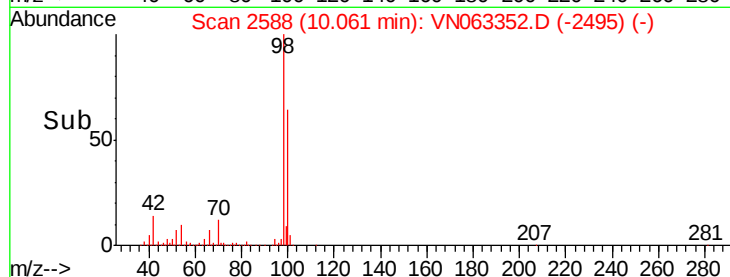
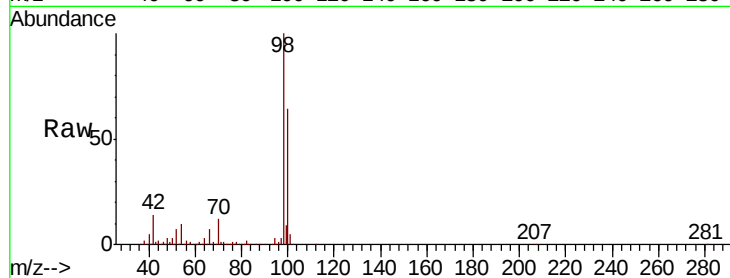
SA-PZ189I-20200909

Tot Ion: 98 Resp: 913392

Ion Ratio Lower Upper

98 100

100 64.1 50.7 76.1



#60

Dibromochloromethane

Concen: 0.342 ug/l

RT: 10.60 min Scan# 2755

Delta R.T. -0.28 min

Lab File: VN063352.D

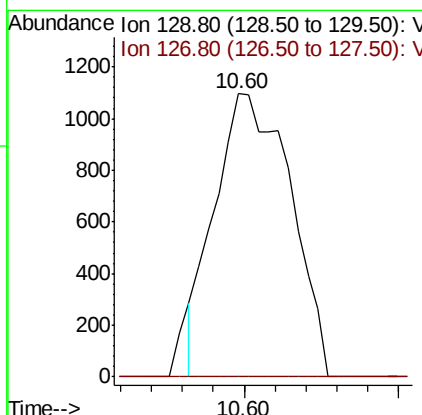
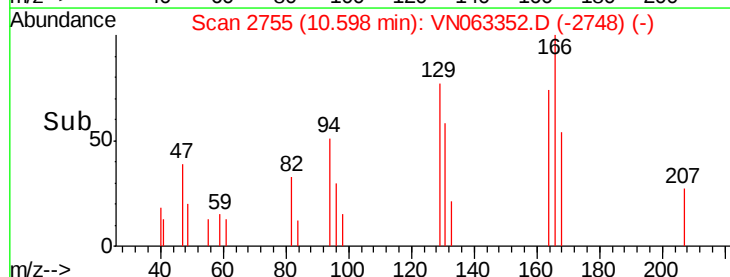
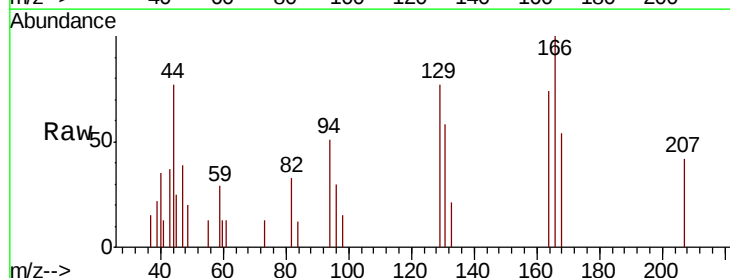
Acq: 14 Sep 2020 19:18

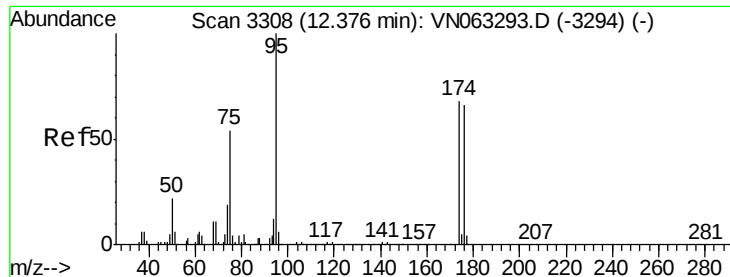
Tgt Ion: 129 Resp: 1868

Ion Ratio Lower Upper

129 100

127 0.0 39.0 117.0#





#62

4-Bromofluorobenzene

Concen: 52.346 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063352.D

Acq: 14 Sep 2020 19:18

Instrument :

MSVOA_N

ClientSampleId :

SA-PZ189I-20200909

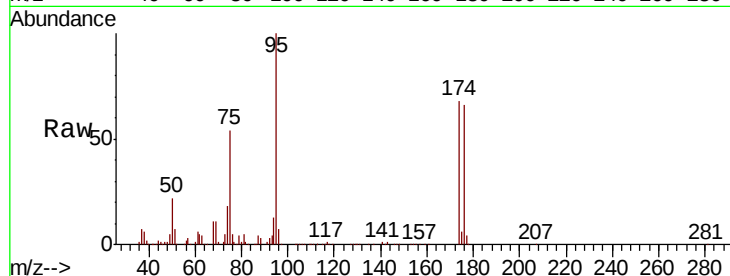
Tot Ion: 95 Resp: 338083

Ion Ratio Lower Upper

95 100

174 70.4 0.0 136.6

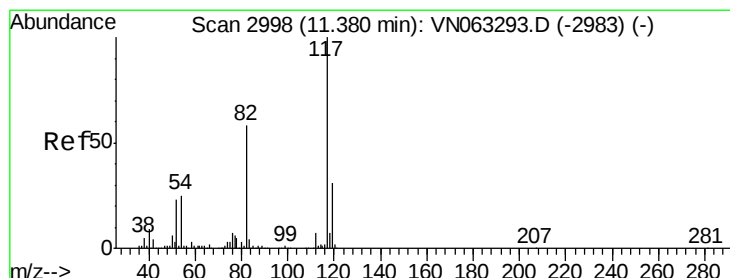
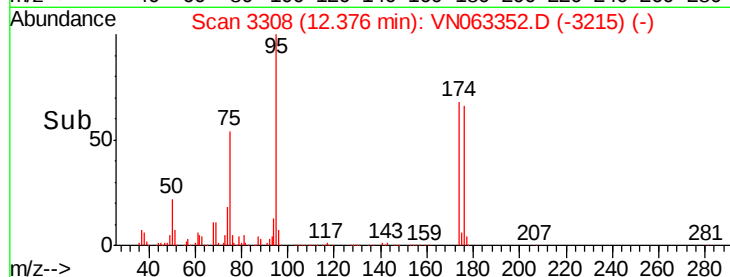
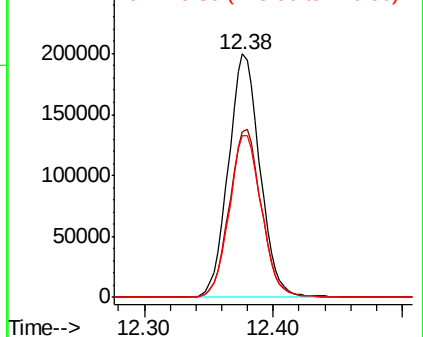
176 68.4 0.0 132.8



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. -0.00 min

Lab File: VN063352.D

Acq: 14 Sep 2020 19:18

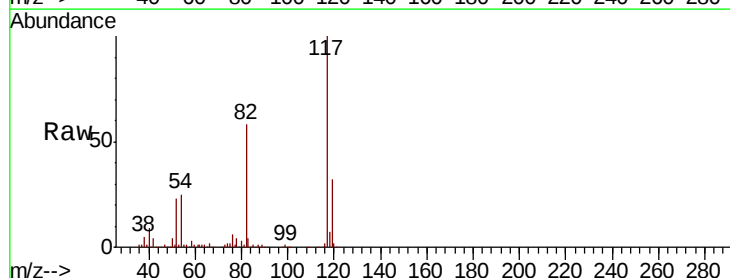
Tgt Ion: 117 Resp: 705608

Ion Ratio Lower Upper

117 100

82 58.4 46.4 69.6

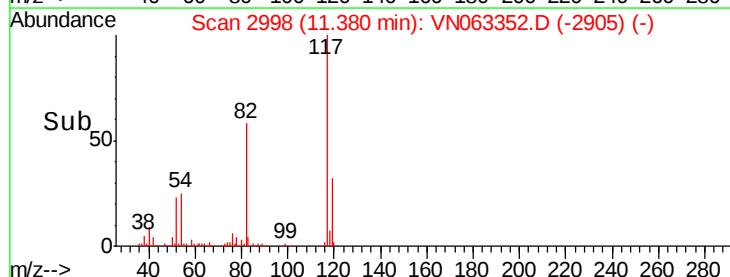
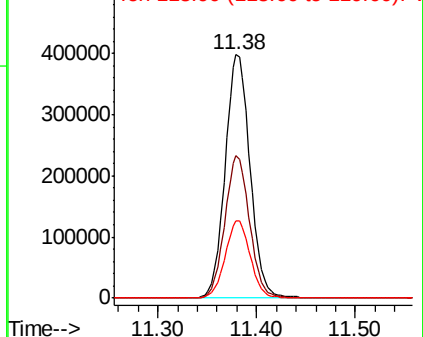
119 31.8 24.8 37.2

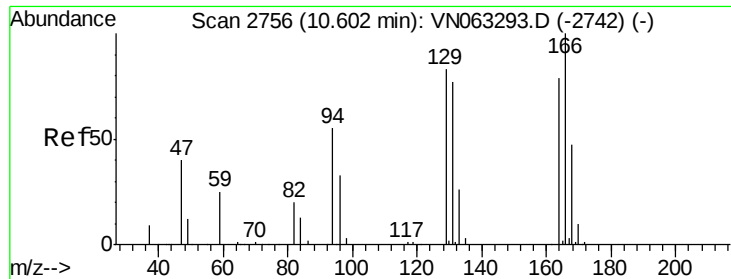


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#64

Tetrachloroethene

Concen: 0.322 ug/l

RT: 10.60 min Scan# 2756

Delta R.T. -0.00 min

Lab File: VN063352.D

Acq: 14 Sep 2020 19:18

Instrument :

MSVOA_N

ClientSampleId :

SA-PZ189I-20200909

Tot Ion:164 Resp: 1862

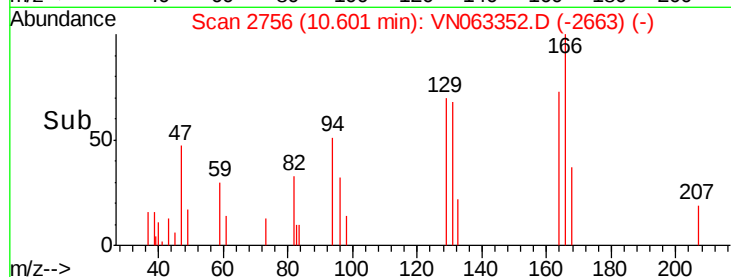
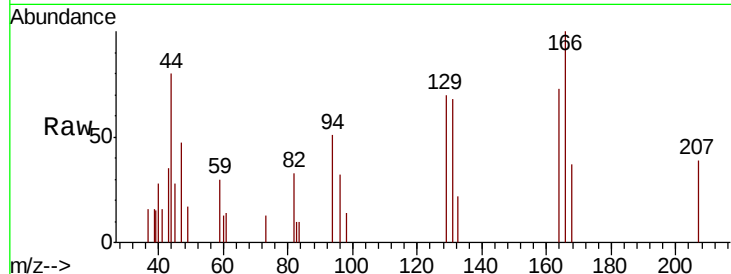
Ion Ratio Lower Upper

164 100

166 136.1 101.3 151.9

129 95.4 83.7 125.5

131 92.0 78.2 117.4

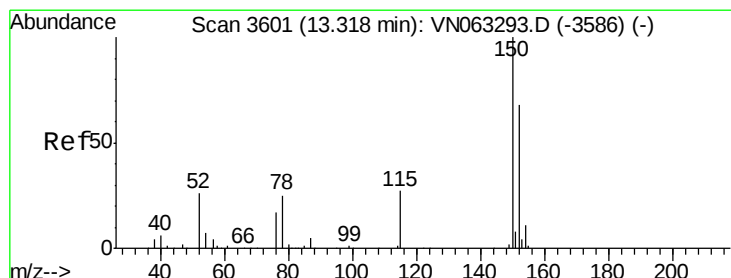
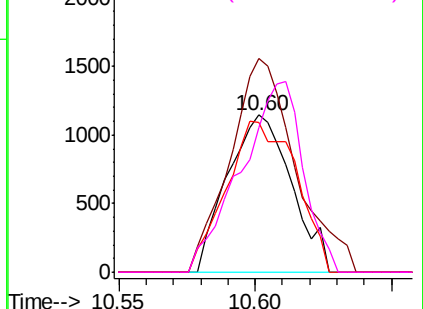


Abundance Ion 163.80 (163.50 to 164.50): V

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: VN063352.D

Acq: 14 Sep 2020 19:18

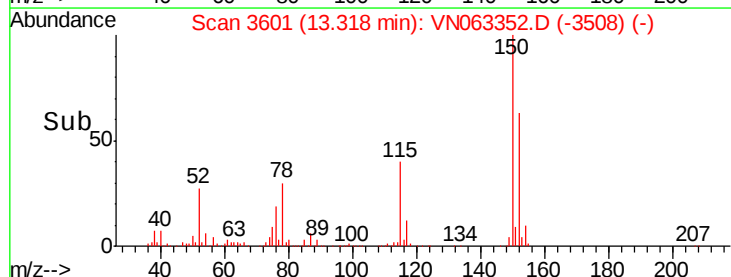
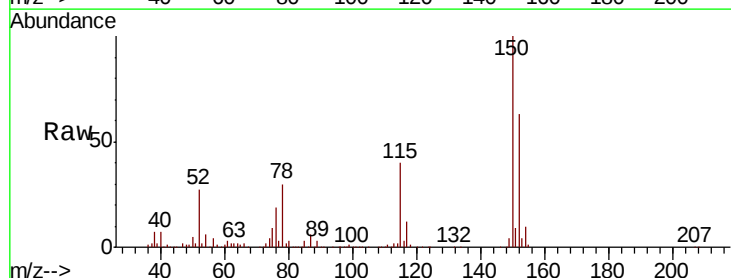
Tgt Ion:152 Resp: 276576

Ion Ratio Lower Upper

152 100

115 63.8 31.5 94.5

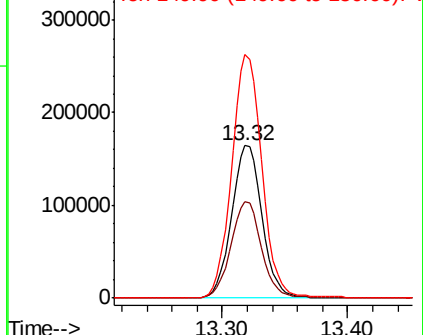
150 159.0 0.0 344.0

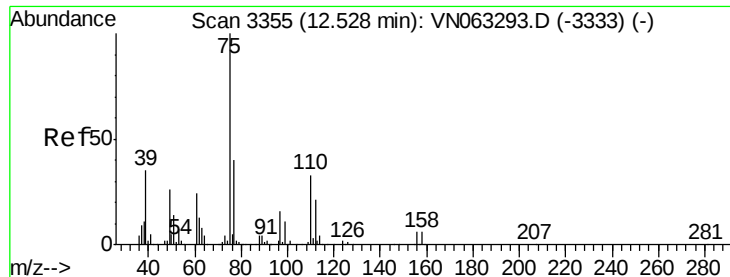


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 30.322 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063352.D

Acq: 14 Sep 2020 19:18

Instrument :

MSVOA_N

ClientSampleId :

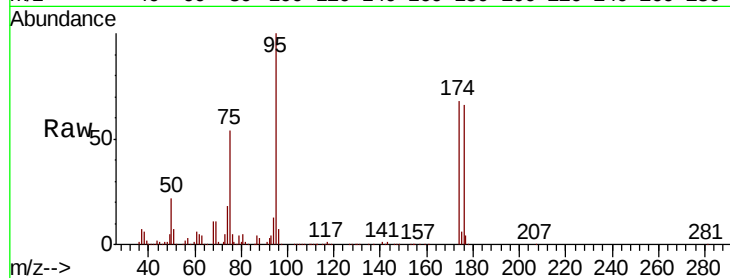
SA-PZ189I-20200909

Tot Ion: 75 Resp: 185018

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.38

120000

100000

80000

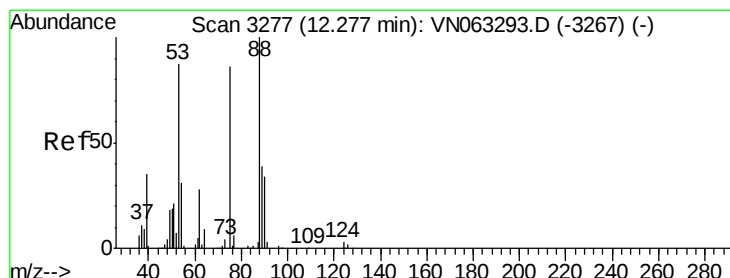
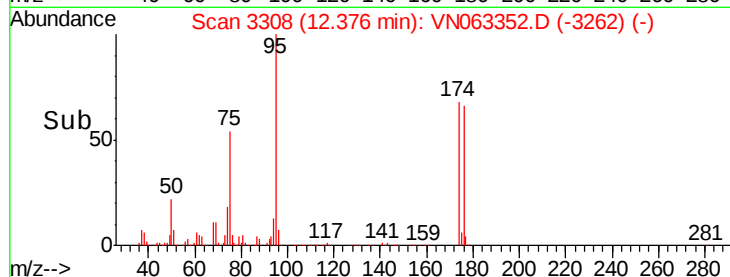
60000

40000

20000

0

Time--> 12.30 12.35 12.40 12.45



#81

trans-1,4-Dichloro-2-butene

Concen: 81.471 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063352.D

Acq: 14 Sep 2020 19:18

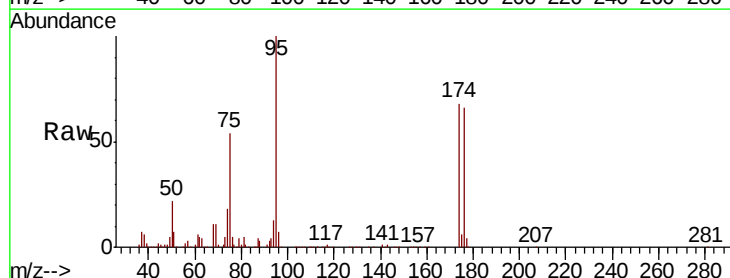
Tgt Ion: 75 Resp: 185018

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): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

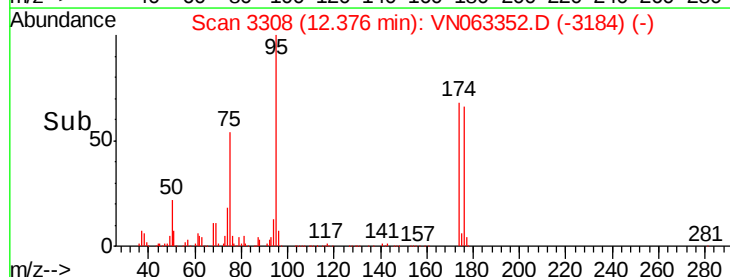
150000

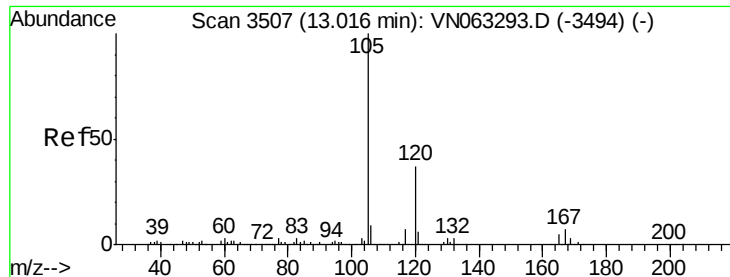
100000

50000

0

Time--> 12.30 12.35 12.40 12.45

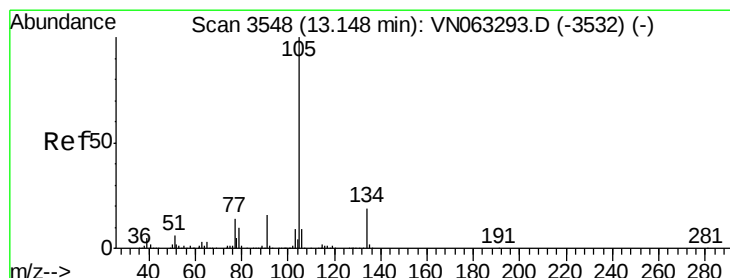
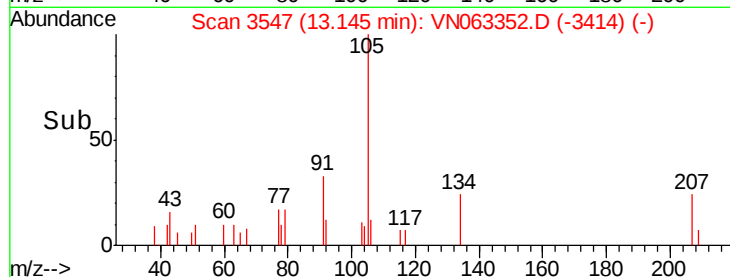
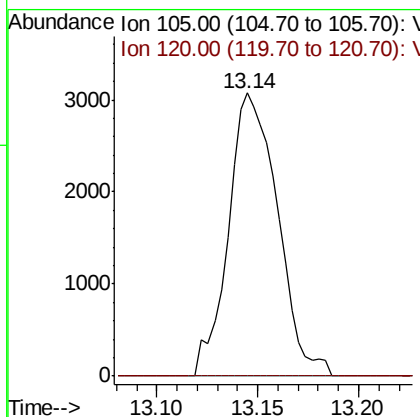
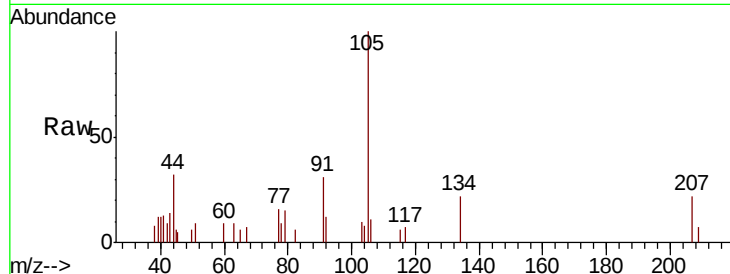




#84
 1,2,4-Trimethylbenzene
 Concen: 0.281 ug/l
 RT: 13.14 min Scan# 3547
 Delta R.T. 0.13 min
 Lab File: VN063352.D
 Acq: 14 Sep 2020 19:18

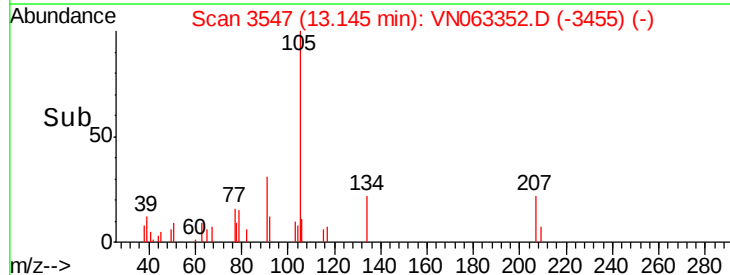
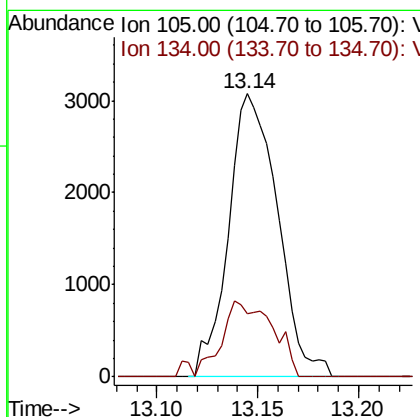
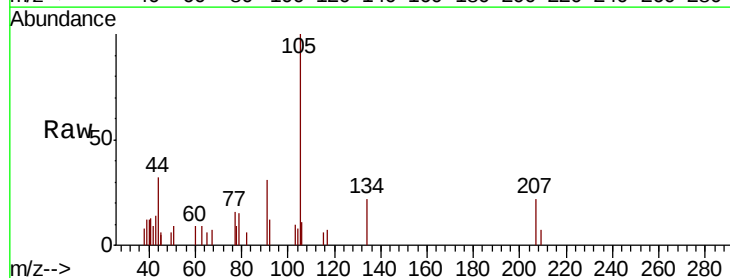
Instrument :
 MSVOA_N
 ClientSampleId :
 SA-PZ189I-20200909

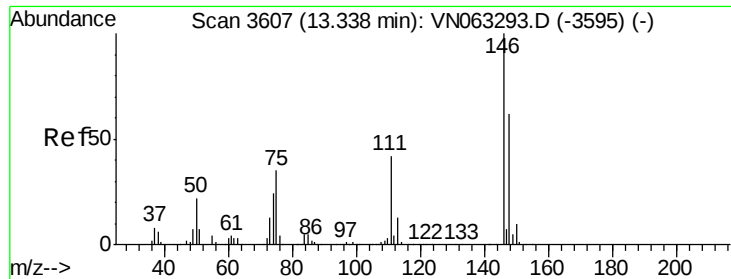
Tot Ion:105 Resp: 5249
 Ion Ratio Lower Upper
 105 100
 120 0.0 21.8 65.4#



#85
 sec-Butylbenzene
 Concen: 0.263 ug/l
 RT: 13.14 min Scan# 3547
 Delta R.T. -0.00 min
 Lab File: VN063352.D
 Acq: 14 Sep 2020 19:18

Tgt Ion:105 Resp: 5249
 Ion Ratio Lower Upper
 105 100
 134 27.8 9.4 28.3

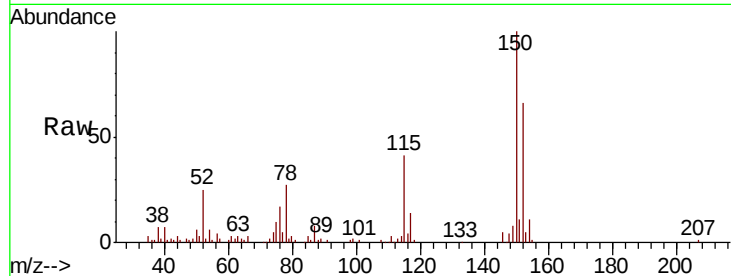




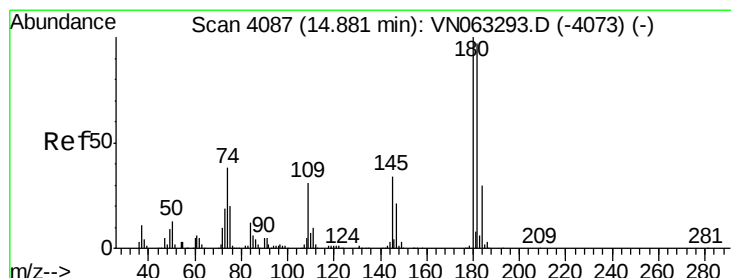
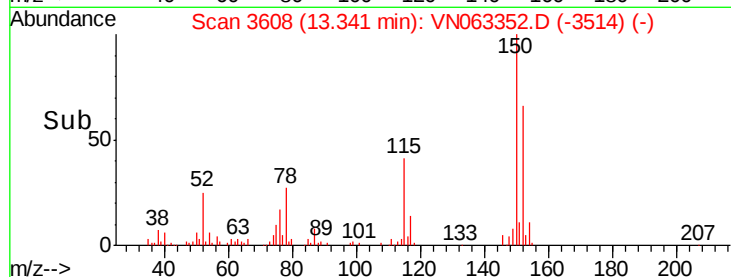
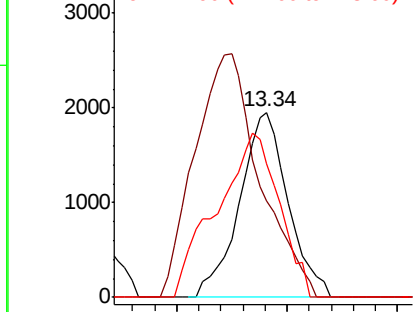
#88
 1,4-Dichlorobenzene
 Concen: Below Cal
 RT: 13.34 min Scan# 3608
 Delta R.T. 0.00 min
 Lab File: VN063352.D
 Acq: 14 Sep 2020 19:18

Instrument :
 MSVOA_N
 ClientSampleId :
 SA-PZ189I-20200909

Tot Ion:146 Resp: 2973
 Ion Ratio Lower Upper
 146 100
 111 175.6 21.3 64.0#
 148 113.8 31.5 94.5#

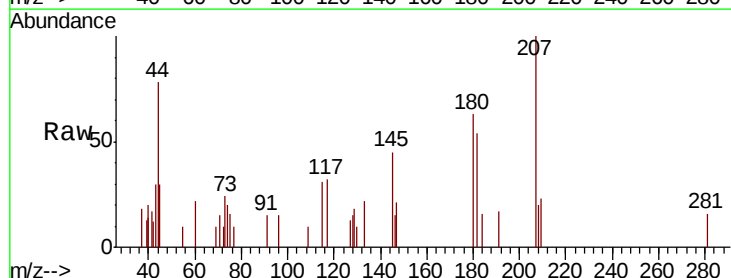


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

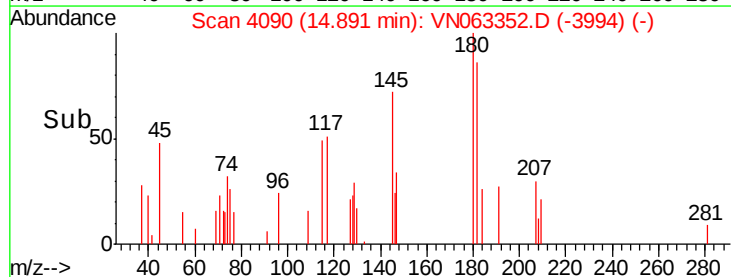
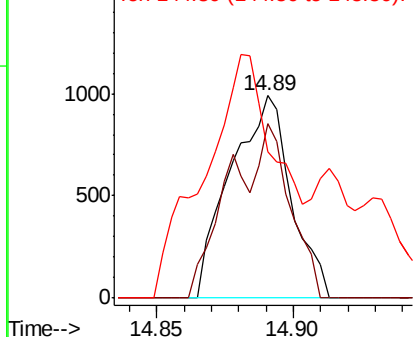


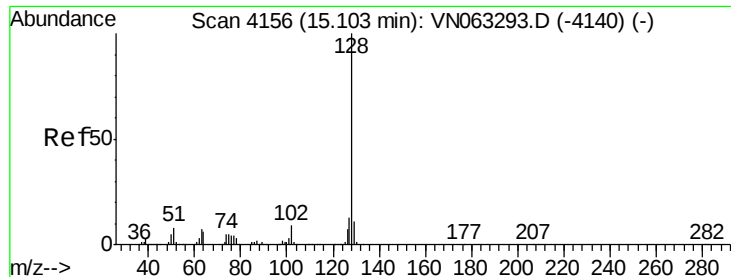
#93
 1,2,4-Trichlorobenzene
 Concen: 0.280 ug/l
 RT: 14.89 min Scan# 4090
 Delta R.T. 0.01 min
 Lab File: VN063352.D
 Acq: 14 Sep 2020 19:18

Tgt Ion:180 Resp: 1521
 Ion Ratio Lower Upper
 180 100
 182 46.5 48.0 144.2#
 145 0.0 16.6 49.8#



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

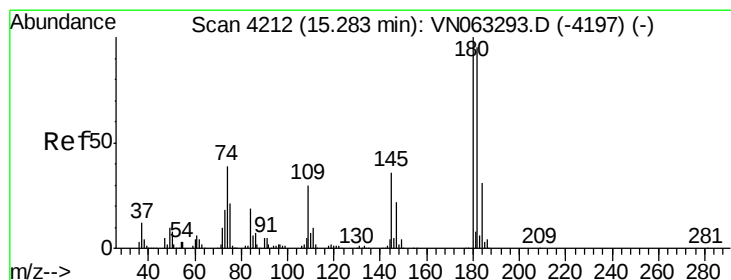
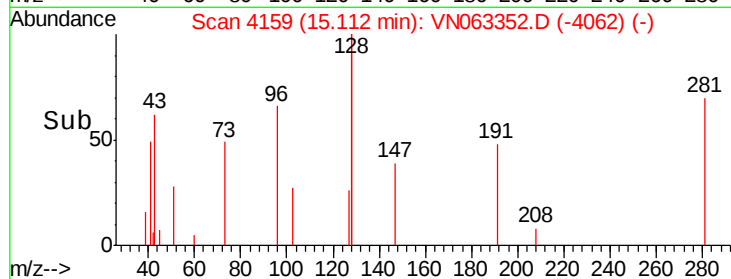
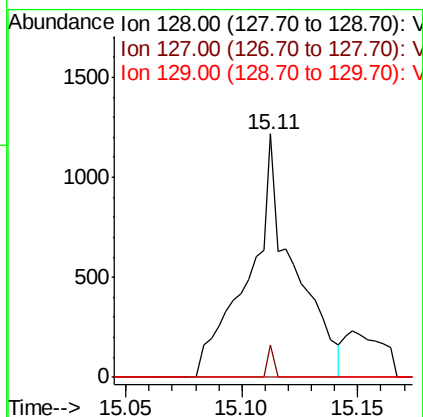
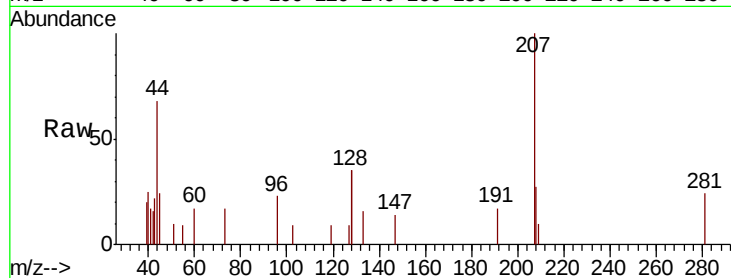




#95
Naphthalene
Concen: Below Cal
RT: 15.11 min Scan# 4159
Delta R.T. 0.01 min
Lab File: VN063352.D
Acq: 14 Sep 2020 19:18

Instrument :
MSVOA_N
ClientSampleId :
SA-PZ189I-20200909

Tot Ion:128 Resp: 1630
Ion Ratio Lower Upper
128 100
127 1.9 10.3 15.5#
129 0.0 8.6 12.8#



#96
1,2,3-Trichlorobenzene
Concen: Below Cal
RT: 15.29 min Scan# 4213
Delta R.T. 0.00 min
Lab File: VN063352.D
Acq: 14 Sep 2020 19:18

Tgt Ion:180 Resp: 272
Ion Ratio Lower Upper
180 100
182 89.0 47.4 142.3
145 435.7 17.2 51.6#

