

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091120\
 Data File : VN063320.D
 Acq On : 11 Sep 2020 17:30
 Operator : JC/MD
 Sample : L3988-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 12 00:42:36 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	380179	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	717186	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	691497	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	278132	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	290761	48.68	ug/l	0.00
Spiked Amount			Recovery	=	97.36%	
35) Dibromofluoromethane	7.55	113	225299	48.69	ug/l	0.00
Spiked Amount			Recovery	=	97.38%	
50) Toluene-d8	10.06	98	902338	50.89	ug/l	0.00
Spiked Amount			Recovery	=	101.78%	
62) 4-Bromofluorobenzene	12.38	95	335210	51.19	ug/l	0.00
Spiked Amount			Recovery	=	102.38%	

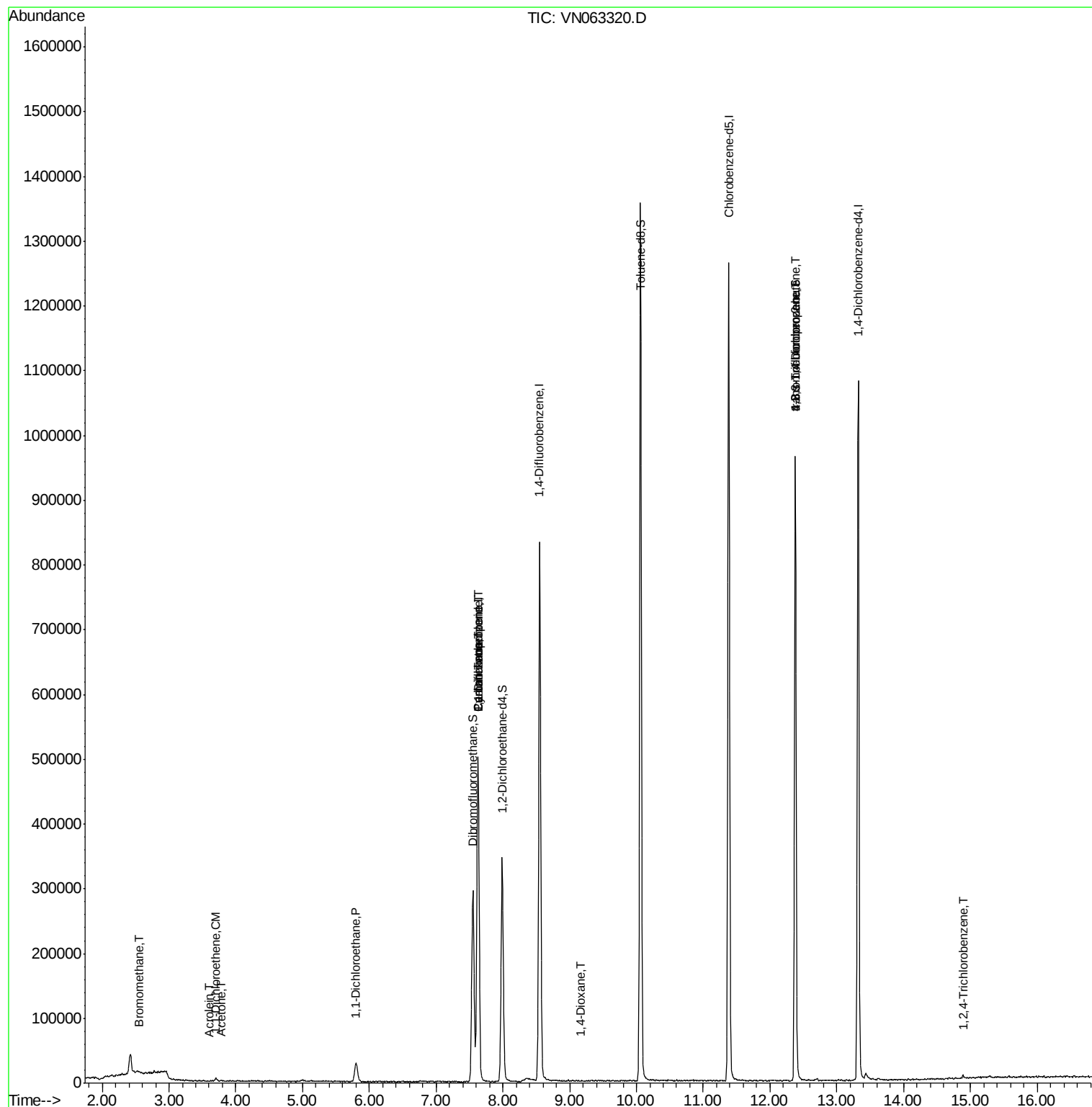
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	1357	Below Cal	#	85
5) Bromomethane	2.55	94	957	0.266	ug/l	86
12) 1,1-Dichloroethene	3.70	96	2018	0.484	ug/l #	70
13) Acrolein	3.61	56	81	32.621	ug/l #	1
16) Acetone	3.78	43	979	0.475	ug/l #	84
17) Carbon Disulfide	4.02	76	1509	Below Cal	#	75
20) Methylene Chloride	4.51	84	451	Below Cal	#	2
24) 1,1-Dichloroethane	5.80	63	43782	4.804	ug/l	96
31) Cyclohexane	7.62	56	10756	1.284	ug/l #	45
36) 1,1-Dichloropropene	7.62	75	34294	4.652	ug/l #	51
38) Carbon Tetrachloride	7.63	117	40775	5.620	ug/l #	16
49) 1,4-Dioxane	9.17	88	143	1.576	ug/l #	32
76) 1,2,3-Trichloropropane	12.38	75	182621	29.762	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	182621	79.965	ug/l #	9
88) 1,4-Dichlorobenzene	13.33	146	1920	Below Cal	#	1
93) 1,2,4-Trichlorobenzene	14.88	180	1708	0.313	ug/l	90
95) Naphthalene	15.13	128	1389	Below Cal	#	75
96) 1,2,3-Trichlorobenzene	15.28	180	172	Below Cal	#	21

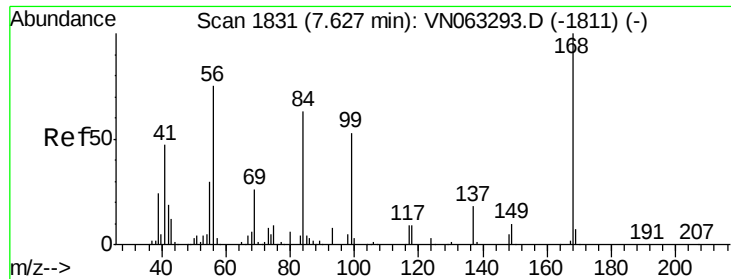
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Sep 11 06:02:56 2020
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN063320.D

Acq: 11 Sep 2020 17:30

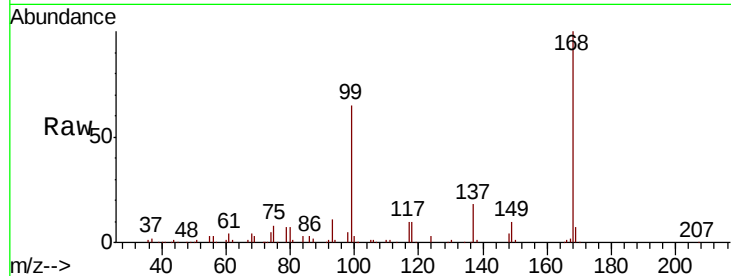
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 380179

Ion Ratio Lower Upper

168 100

99 64.9 51.1 76.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

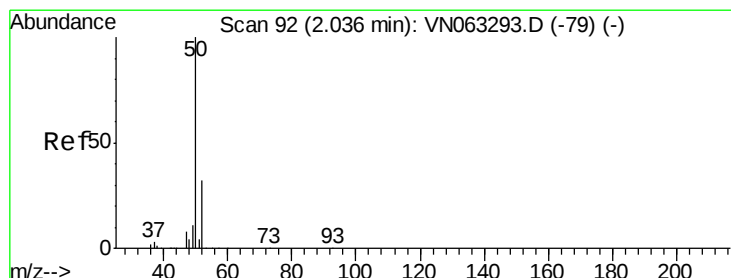
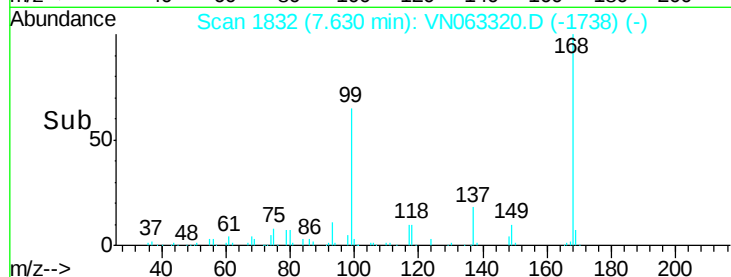
150000

100000

50000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: Below Cal

RT: 2.03 min Scan# 90

Delta R.T. -0.01 min

Lab File: VN063320.D

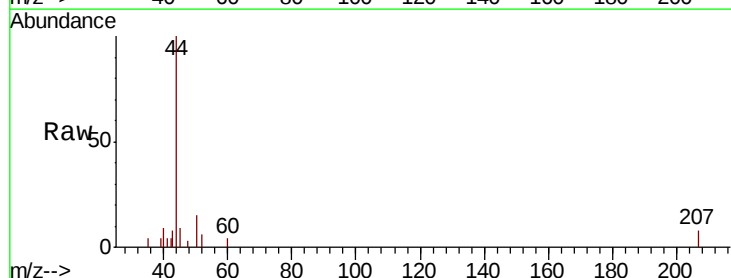
Acq: 11 Sep 2020 17:30

Tgt Ion: 50 Resp: 1357

Ion Ratio Lower Upper

50 100

52 40.1 25.4 38.2#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.03

1000

800

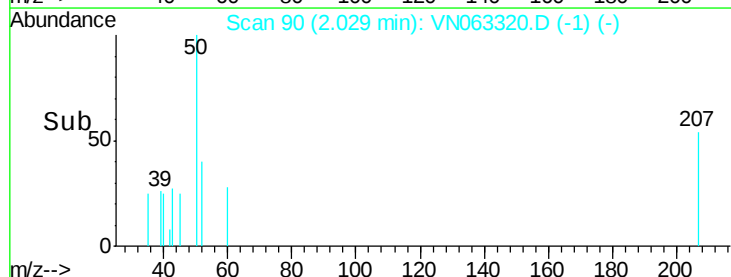
600

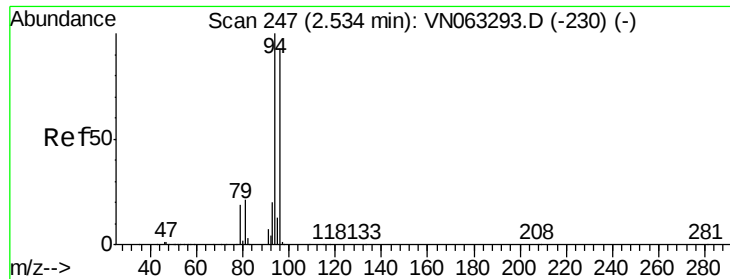
400

200

0

Time--> 2.00 2.02 2.04 2.06





#5

Bromomethane

Concen: 0.266 ug/l

RT: 2.55 min Scan# 251

Delta R.T. 0.01 min

Lab File: VN063320.D

Acq: 11 Sep 2020 17:30

Instrument :

MSVOA_N

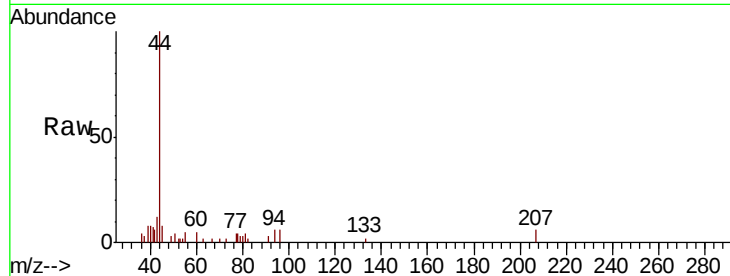
ClientSampled :

Tot Ion: 94 Resp: 957

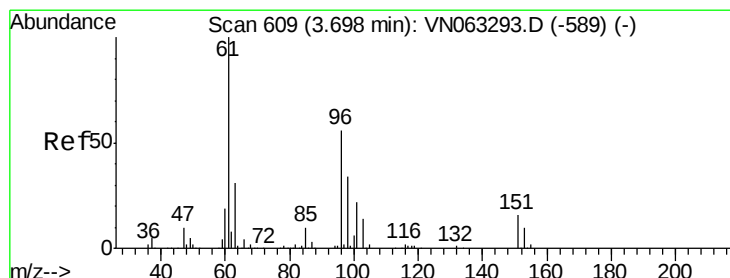
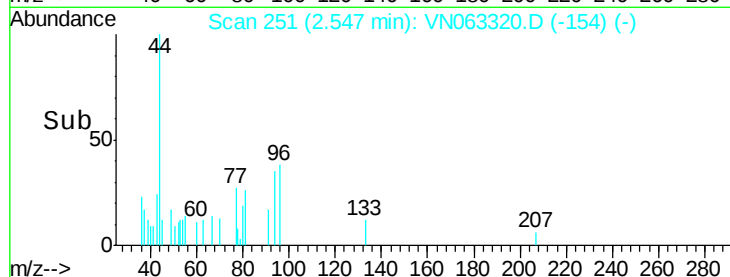
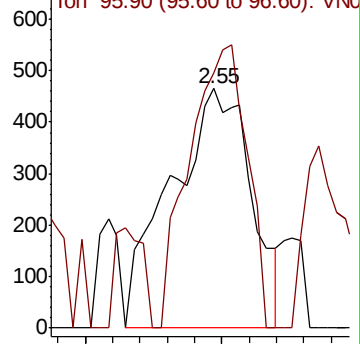
Ion Ratio Lower Upper

94 100

96 106.5 74.3 111.5



Abundance Ion 93.90 (93.60 to 94.60): VN0



#12

1,1-Dichloroethene

Concen: 0.484 ug/l

RT: 3.70 min Scan# 611

Delta R.T. 0.01 min

Lab File: VN063320.D

Acq: 11 Sep 2020 17:30

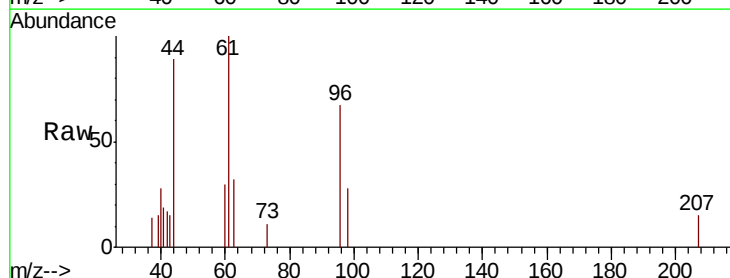
Tgt Ion: 96 Resp: 2018

Ion Ratio Lower Upper

96 100

61 132.8 142.1 213.1#

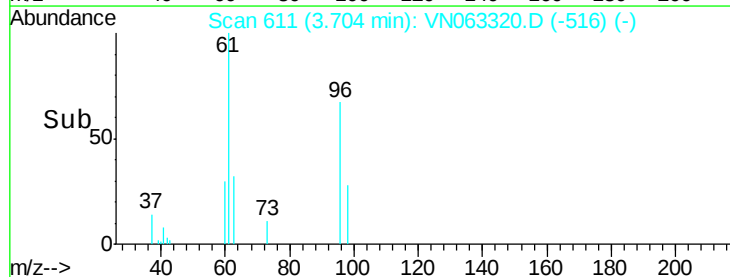
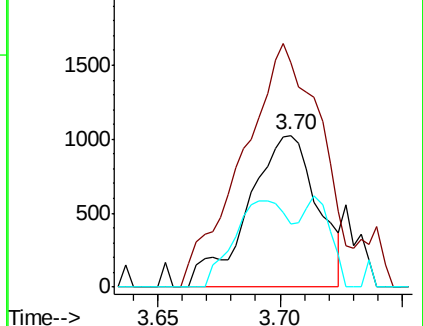
98 42.1 48.8 73.2#

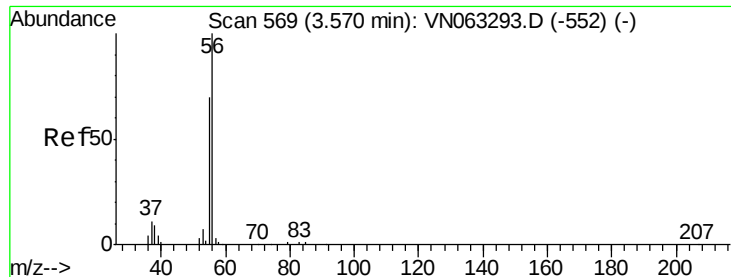


Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0





#13

Acrolein

Concen: 32.621 ug/l

RT: 3.61 min Scan# 581

Delta R.T. 0.04 min

Lab File: VN063320.D

Acq: 11 Sep 2020 17:30

Instrument :

MSVOA_N

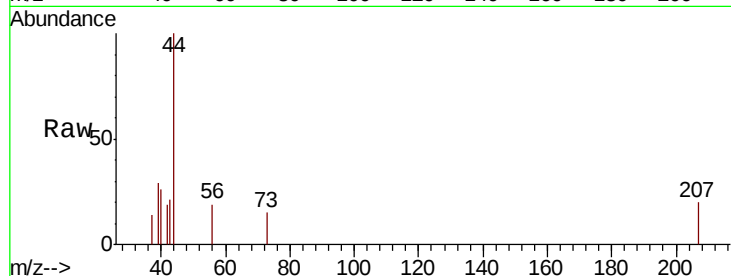
ClientSampled :

Tot Ion: 56 Resp: 81

Ion Ratio Lower Upper

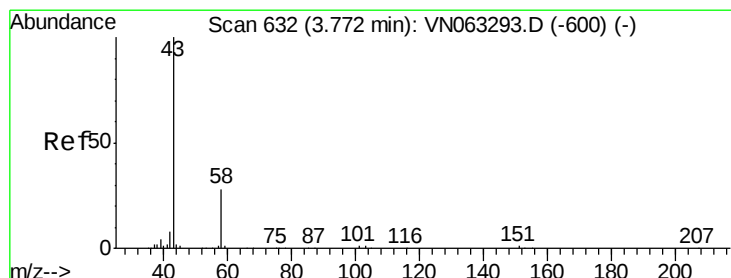
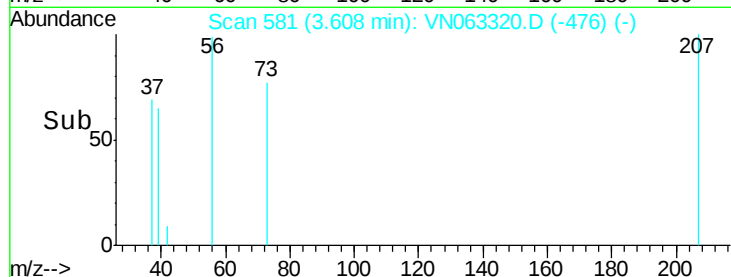
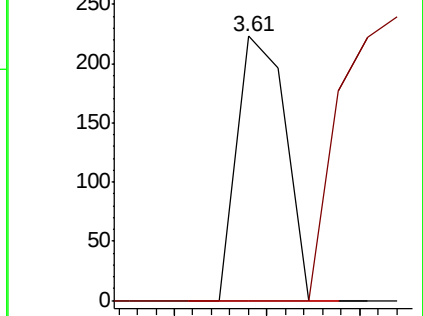
56 100

55 201.2 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: 0.475 ug/l

RT: 3.78 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN063320.D

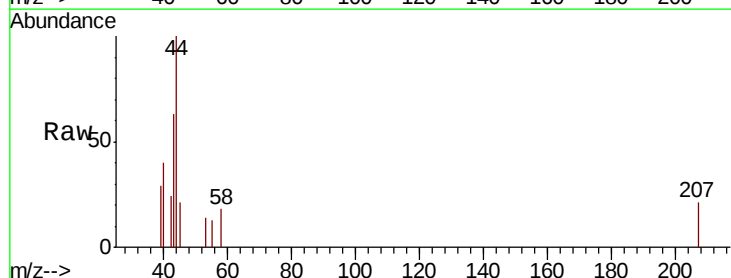
Acq: 11 Sep 2020 17:30

Tgt Ion: 43 Resp: 979

Ion Ratio Lower Upper

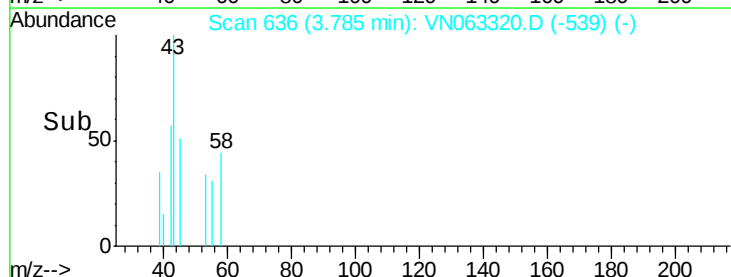
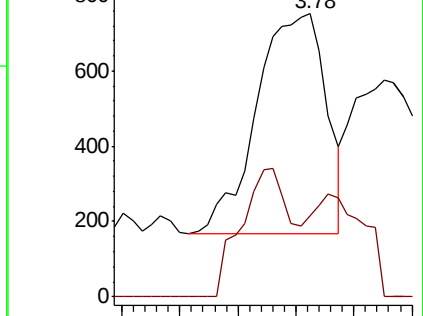
43 100

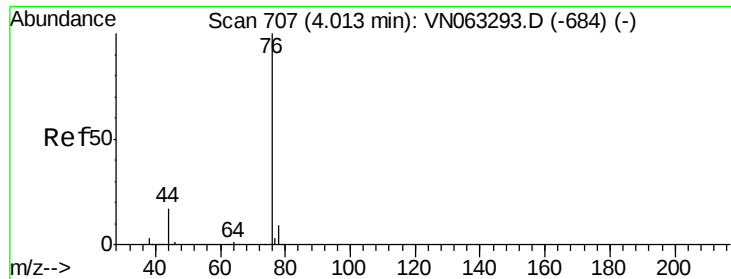
58 36.7 22.6 34.0#



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: 4.02 min Scan# 710

Delta R.T. 0.01 min

Lab File: VN063320.D

Acq: 11 Sep 2020 17:30

Instrument :

MSVOA_N

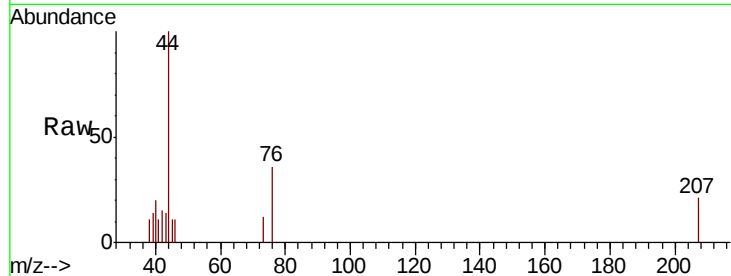
ClientSampleId :

Tot Ion: 76 Resp: 1509

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.02

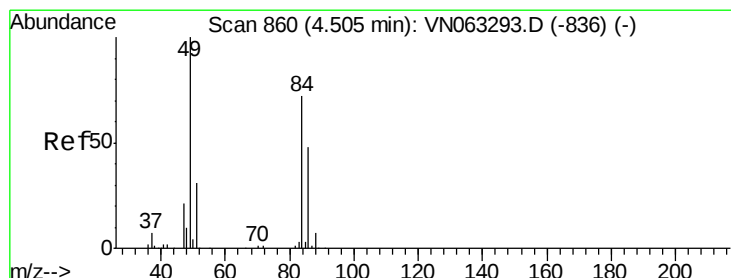
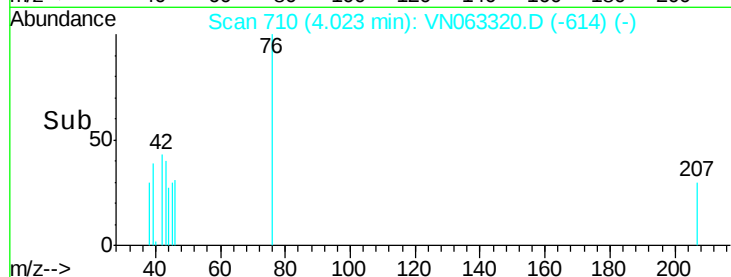
600

400

200

0

Time--> 3.95 4.00 4.05



#20

Methylene Chloride

Concen: Below Cal

RT: 4.51 min Scan# 861

Delta R.T. 0.00 min

Lab File: VN063320.D

Acq: 11 Sep 2020 17:30

Tgt Ion: 84 Resp: 451

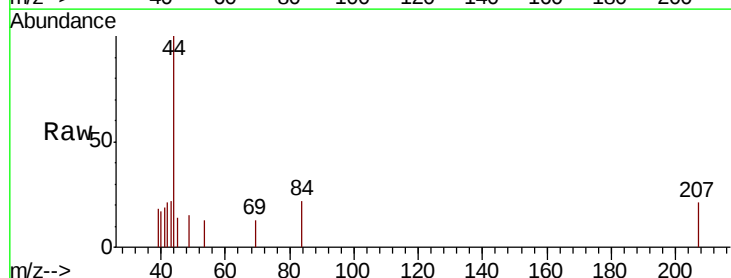
Ion Ratio Lower Upper

84 100

49 0.0 111.1 166.7#

51 0.0 34.3 51.5#

86 0.0 52.9 79.3#



Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0

4.51

600

500

400

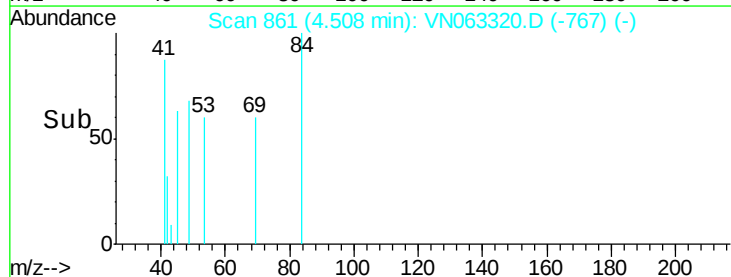
300

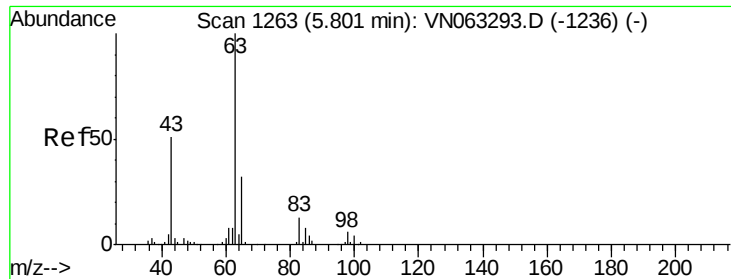
200

100

0

Time--> 4.48 4.50 4.52





#24

1,1-Dichloroethane

Concen: 4.804 ug/l

RT: 5.80 min Scan# 1262

Delta R.T. -0.00 min

Lab File: VN063320.D

Acq: 11 Sep 2020 17:30

Instrument :

MSVOA_N

ClientSampleId :

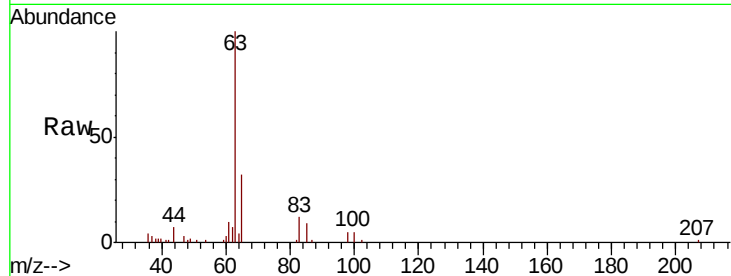
Tot Ion: 63 Resp: 43782

Ion Ratio Lower Upper

63 100

98 4.7 3.1 9.3

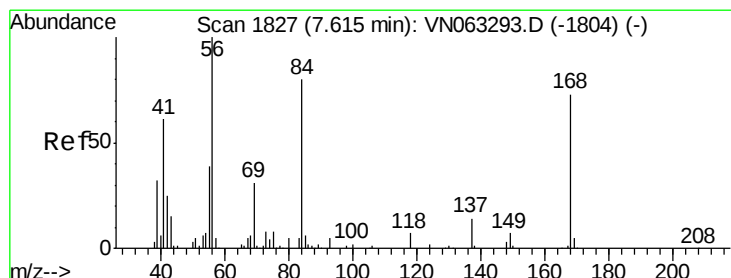
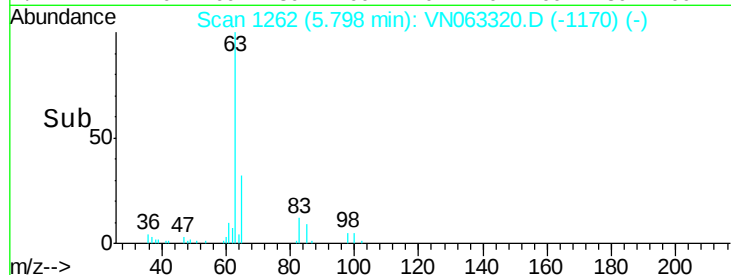
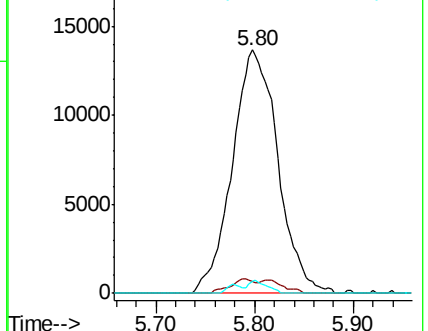
100 5.0 2.0 6.0



Abundance Ion 62.90 (62.60 to 63.60): VN063320.D (-1170) (-)

Ion 97.90 (97.60 to 98.60): VN063320.D (-1170) (-)

Ion 99.90 (99.60 to 100.60): VN063320.D (-1170) (-)



#31

Cyclohexane

Concen: 1.284 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN063320.D

Acq: 11 Sep 2020 17:30

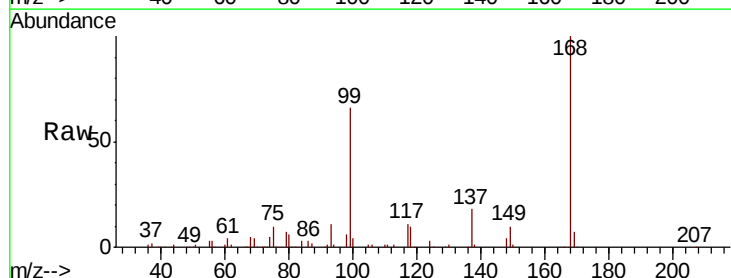
Tgt Ion: 56 Resp: 10756

Ion Ratio Lower Upper

56 100

69 119.1 25.1 37.7#

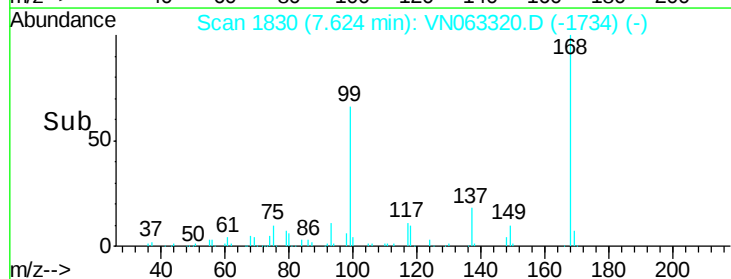
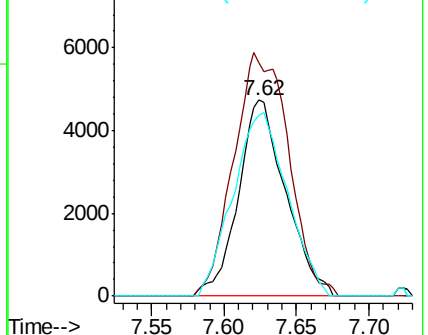
84 92.5 64.2 96.2

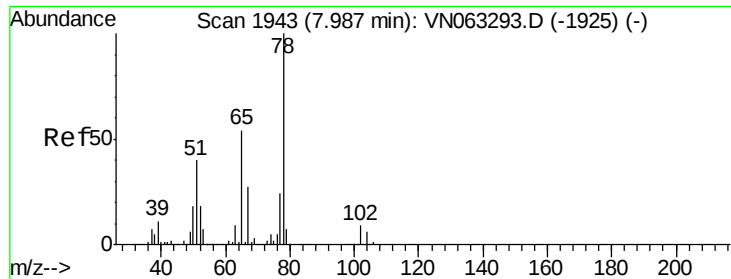


Abundance Ion 56.00 (55.70 to 56.70): VN063320.D (-1734) (-)

Ion 69.00 (68.70 to 69.70): VN063320.D (-1734) (-)

Ion 84.00 (83.70 to 84.70): VN063320.D (-1734) (-)





#33

1,2-Dichloroethane-d4

Concen: 48.678 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. -0.00 min

Lab File: VN063320.D

Acq: 11 Sep 2020 17:30

Instrument :

MSVOA_N

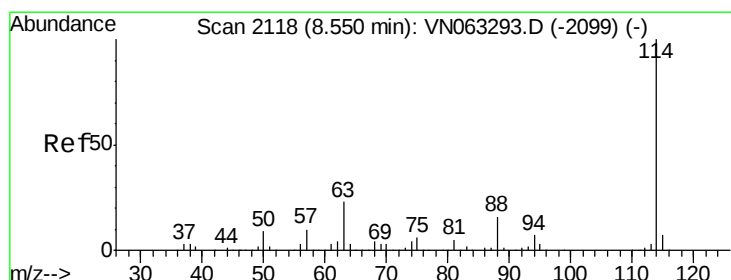
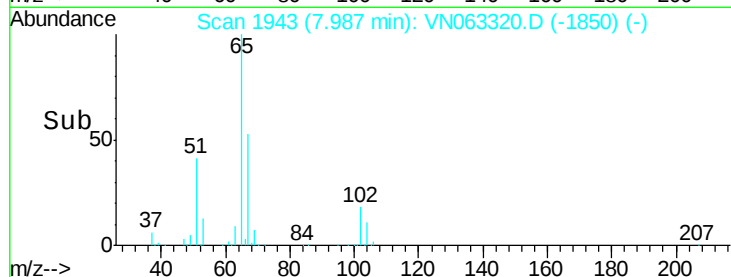
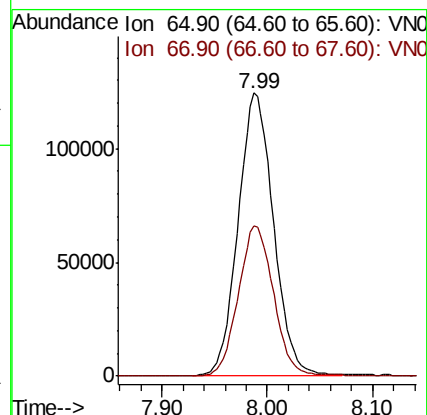
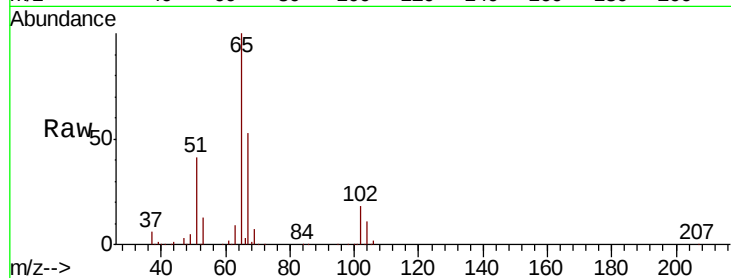
ClientSampleId :

Tot Ion: 65 Resp: 290761

Ion Ratio Lower Upper

65 100

67 52.7 0.0 104.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN063320.D

Acq: 11 Sep 2020 17:30

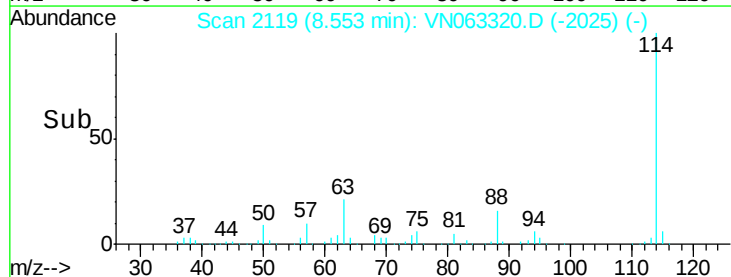
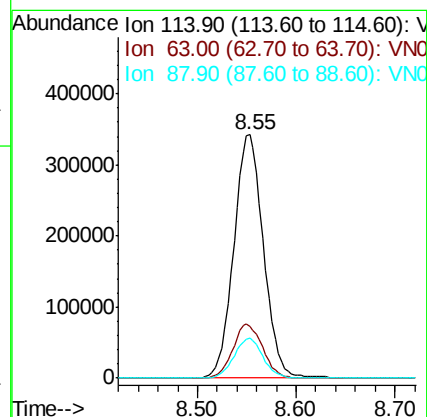
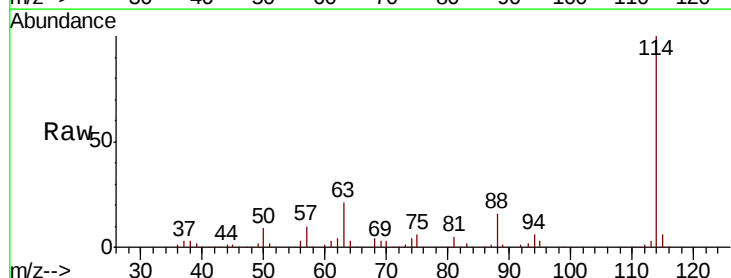
Tgt Ion: 114 Resp: 717186

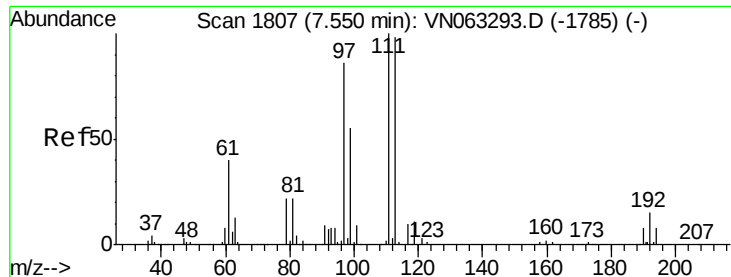
Ion Ratio Lower Upper

114 100

63 21.3 0.0 46.0

88 16.3 0.0 32.8





#35

Dibromofluoromethane

Concen: 48.695 ug/l

RT: 7.55 min Scan# 1807

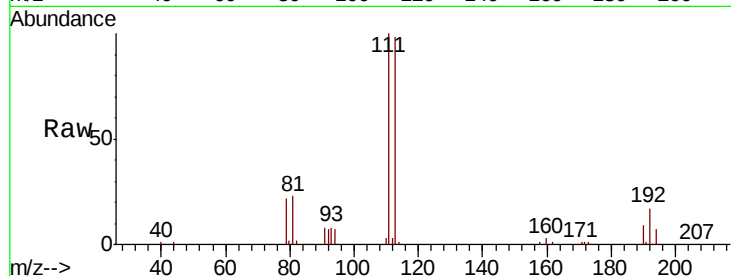
Delta R.T. -0.00 min

Lab File: VN063320.D

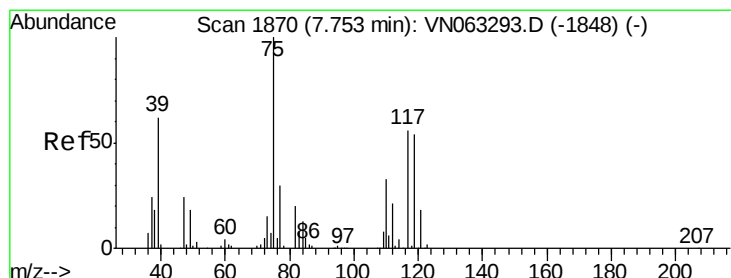
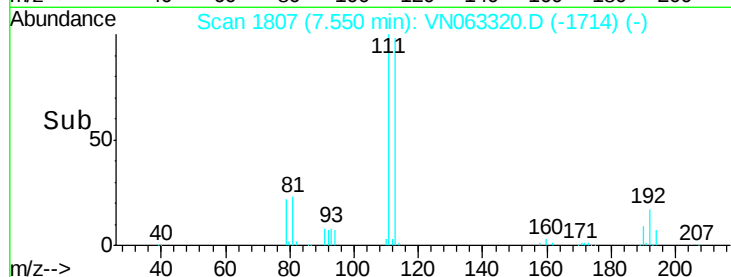
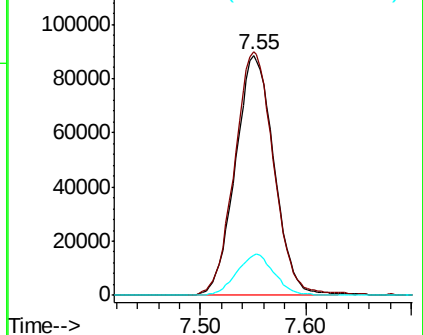
Acq: 11 Sep 2020 17:30

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:	113	Resp:	225299
Ion	Ratio	Lower	Upper
113	100		
111	102.1	82.2	123.2
192	16.7	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: 4.652 ug/l

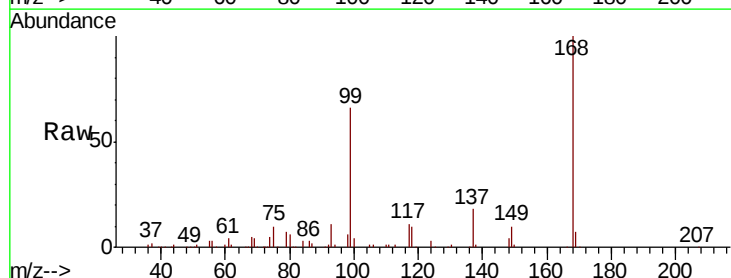
RT: 7.62 min Scan# 1830

Delta R.T. -0.13 min

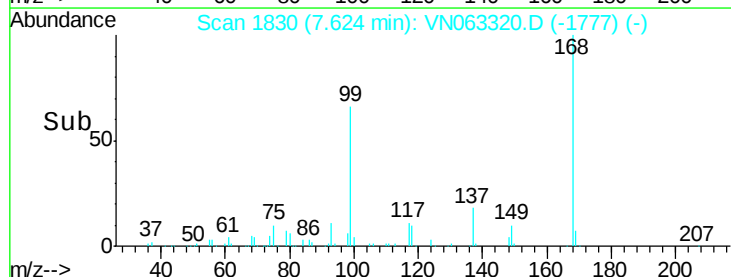
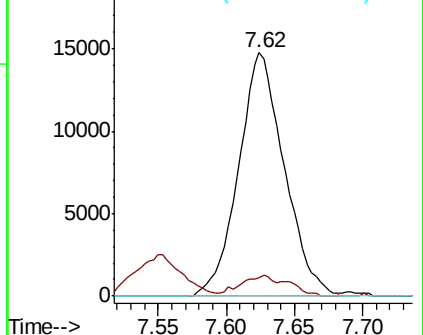
Lab File: VN063320.D

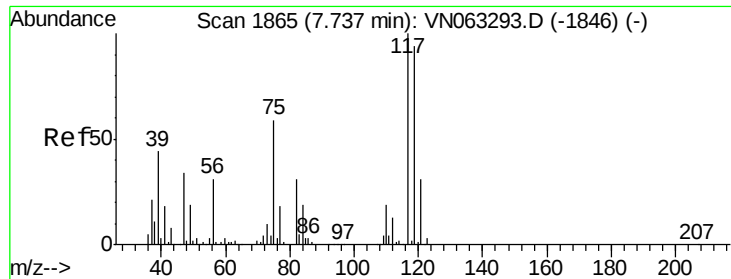
Acq: 11 Sep 2020 17:30

Tgt Ion:	75	Resp:	34294
Ion	Ratio	Lower	Upper
75	100		
110	8.8	16.4	49.4#
77	0.0	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: 5.620 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN063320.D

Acq: 11 Sep 2020 17:30

Instrument :

MSVOA_N

ClientSampled :

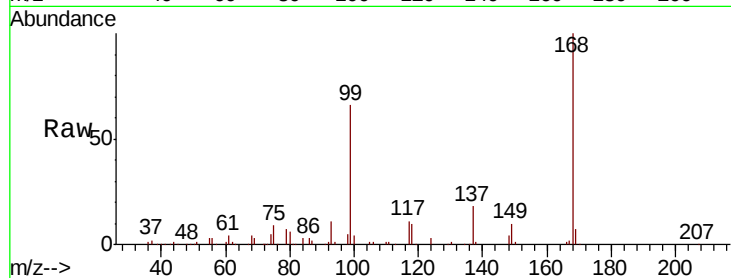
Tot Ion:117 Resp: 40775

Ion Ratio Lower Upper

117 100

119 4.4 75.3 112.9#

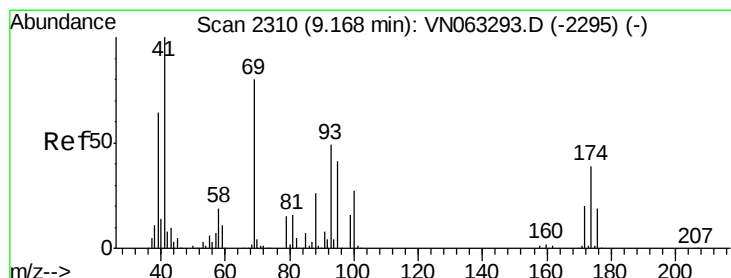
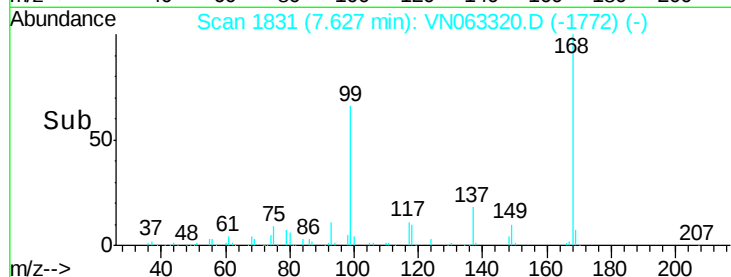
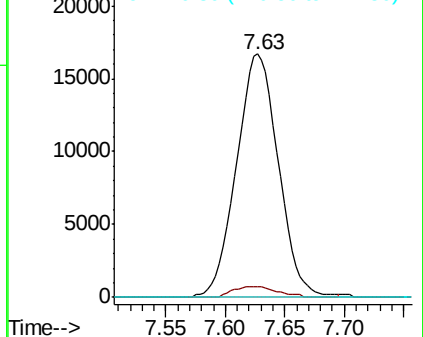
121 0.0 24.6 37.0#



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: 1.576 ug/l

RT: 9.17 min Scan# 2310

Delta R.T. -0.00 min

Lab File: VN063320.D

Acq: 11 Sep 2020 17:30

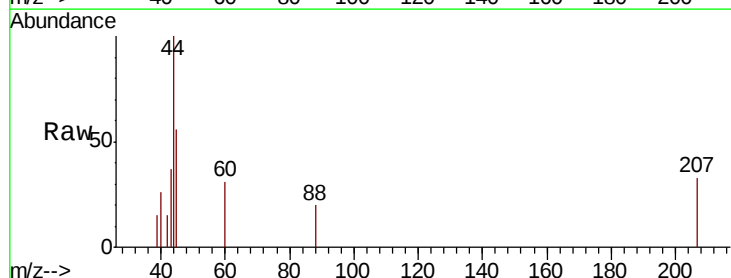
Tgt Ion: 88 Resp: 143

Ion Ratio Lower Upper

88 100

43 19.6 30.5 45.7#

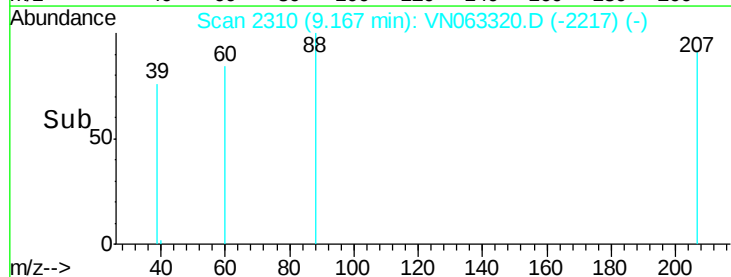
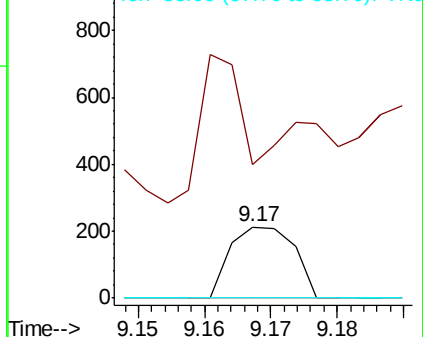
58 0.0 58.9 88.3#

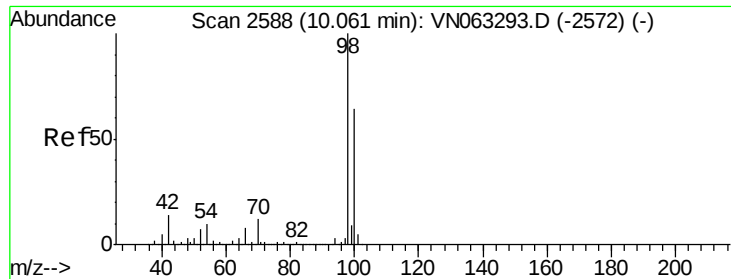


Abundance Ion 88.00 (87.70 to 88.70): VNO

Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO





#50

Toluene-d8

Concen: 50.891 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. -0.00 min

Lab File: VN063320.D

Acq: 11 Sep 2020 17:30

Instrument :

MSVOA_N

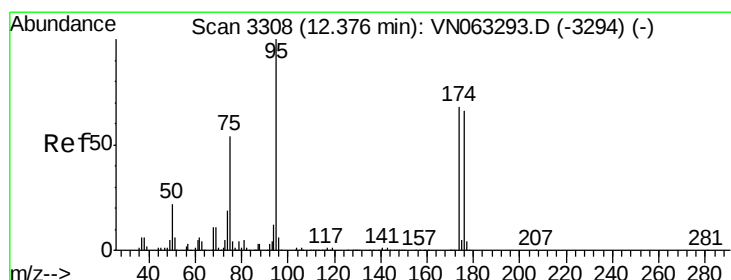
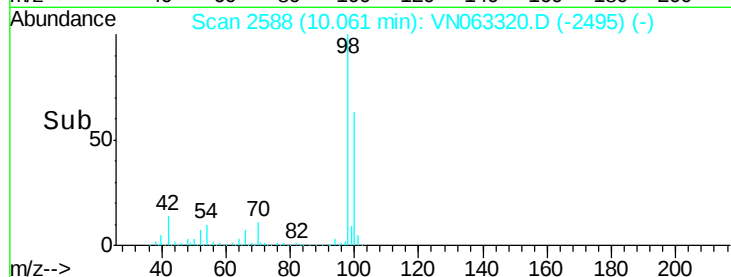
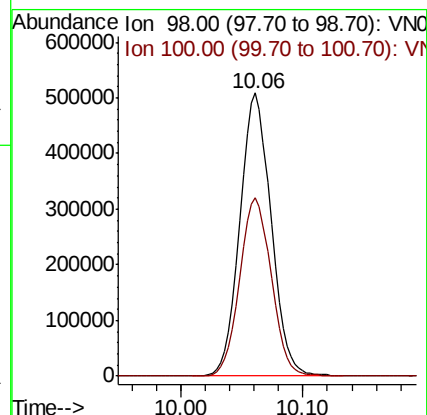
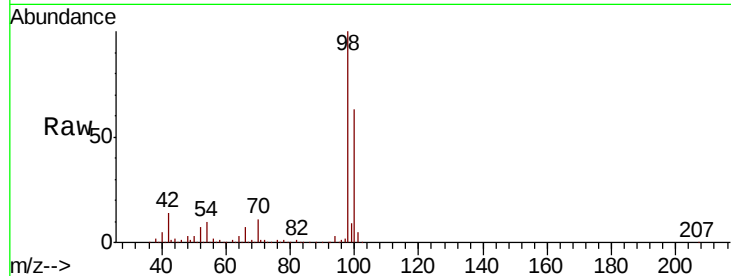
ClientSampled :

Tot Ion: 98 Resp: 902338

Ion Ratio Lower Upper

98 100

100 63.7 50.7 76.1



#62

4-Bromofluorobenzene

Concen: 51.186 ug/l

RT: 12.38 min Scan# 3309

Delta R.T. 0.00 min

Lab File: VN063320.D

Acq: 11 Sep 2020 17:30

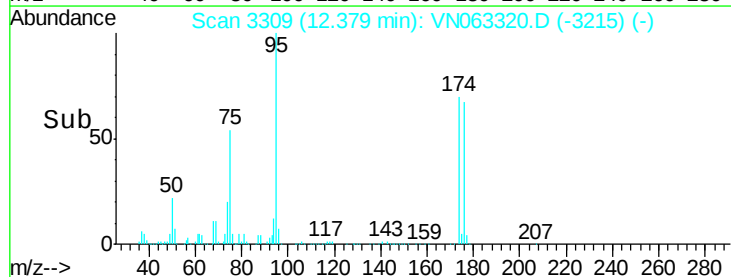
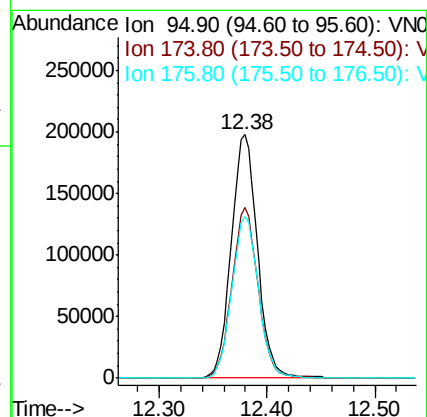
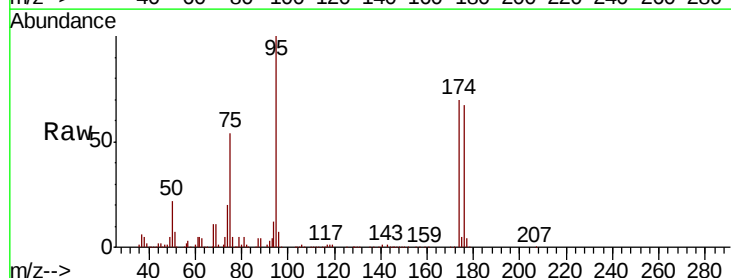
Tgt Ion: 95 Resp: 335210

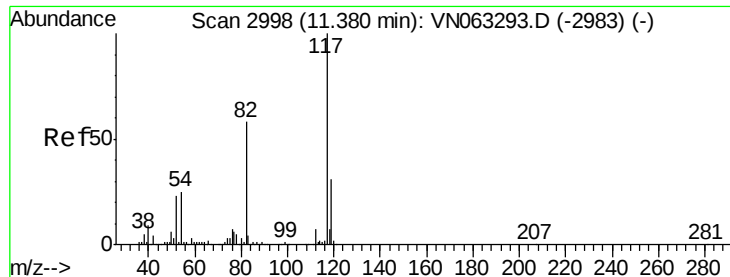
Ion Ratio Lower Upper

95 100

174 70.0 0.0 136.6

176 67.6 0.0 132.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2999

Delta R.T. 0.00 min

Lab File: VN063320.D

Acq: 11 Sep 2020 17:30

Instrument :

MSVOA_N

ClientSampled :

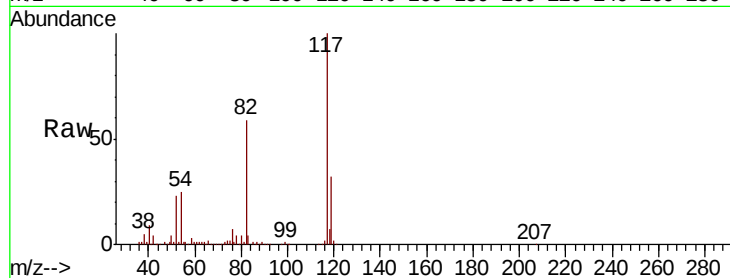
Tot Ion:117 Resp: 691497

Ion Ratio Lower Upper

117 100

82 59.3 46.4 69.6

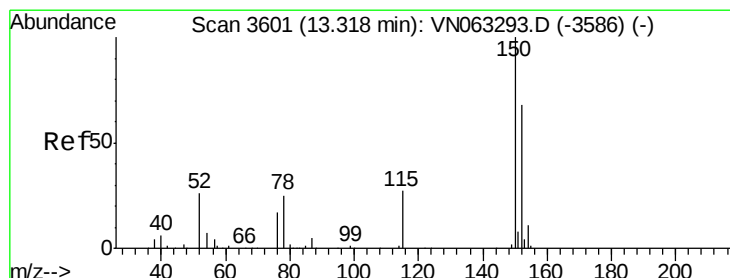
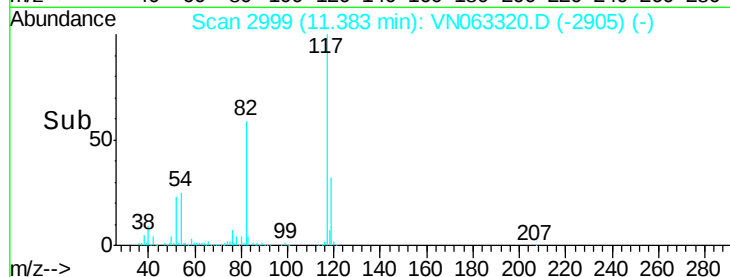
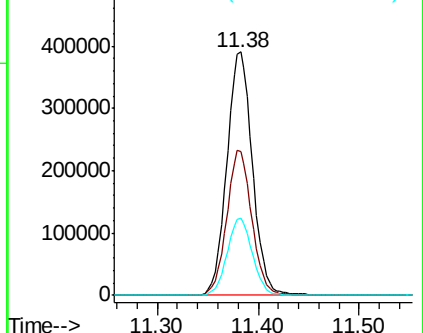
119 31.7 24.8 37.2



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN

Ion 118.90 (118.60 to 119.60): 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: VN063320.D

Acq: 11 Sep 2020 17:30

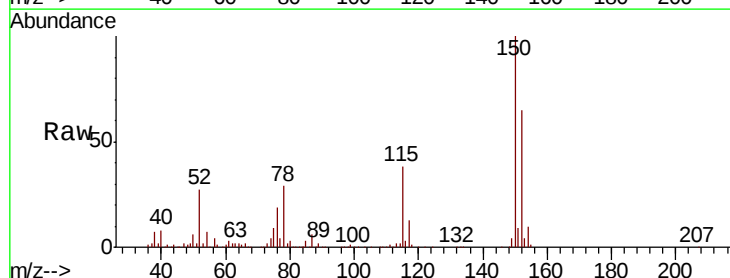
Tgt Ion:152 Resp: 278132

Ion Ratio Lower Upper

152 100

115 60.8 31.5 94.5

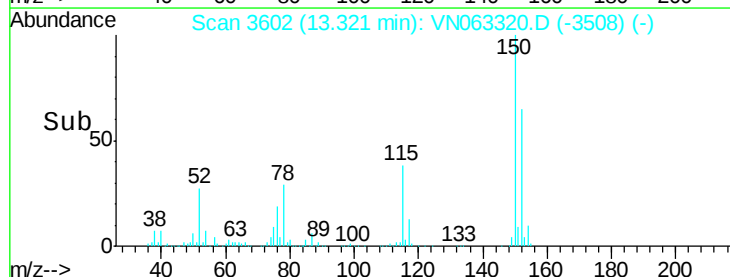
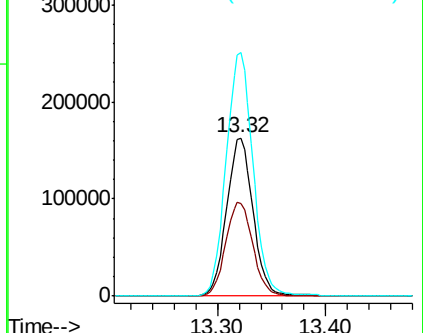
150 157.1 0.0 344.0

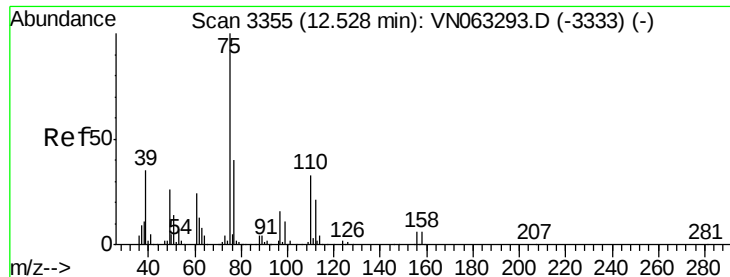


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 29.762 ug/l

RT: 12.38 min Scan# 3309

Delta R.T. -0.15 min

Lab File: VN063320.D

Acq: 11 Sep 2020 17:30

Instrument :

MSVOA_N

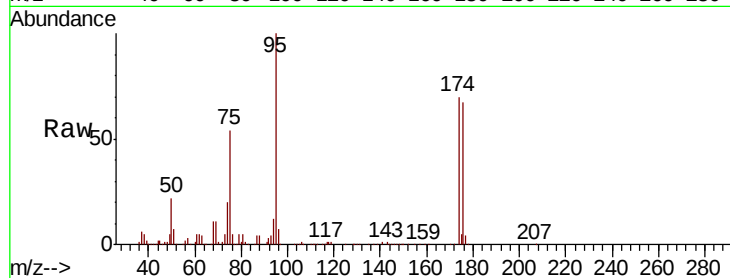
ClientSampleId :

Tot Ion: 75 Resp: 182621

Ion Ratio Lower Upper

75 100

77 0.9 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

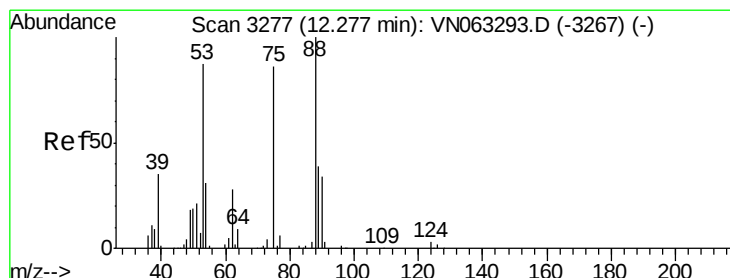
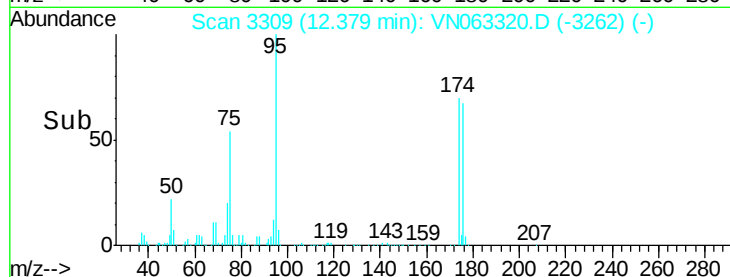
60000

40000

20000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 79.965 ug/l

RT: 12.38 min Scan# 3309

Delta R.T. 0.10 min

Lab File: VN063320.D

Acq: 11 Sep 2020 17:30

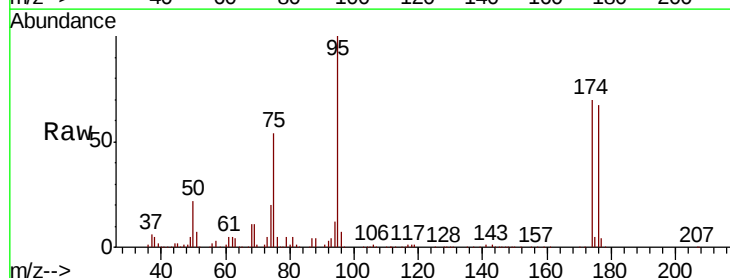
Tgt Ion: 75 Resp: 182621

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

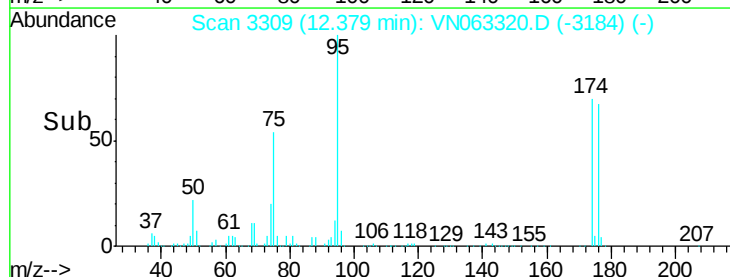
12.38

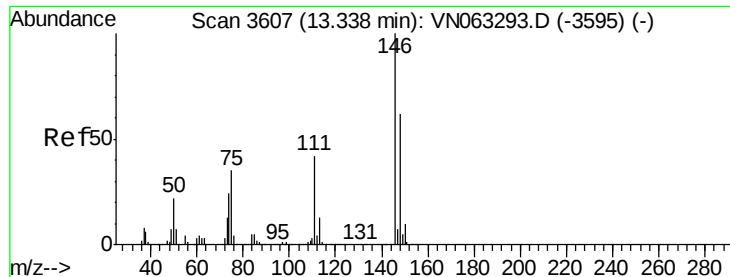
100000

50000

0

Time-->

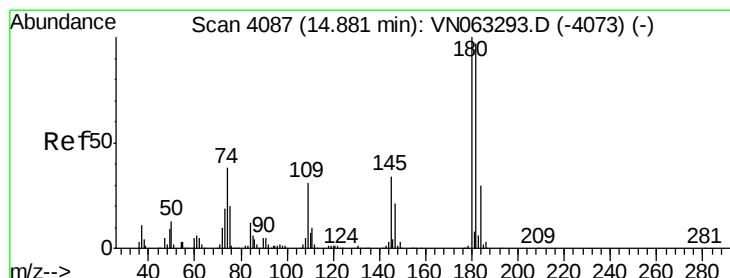
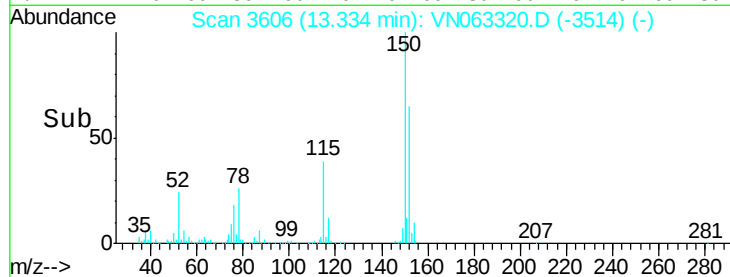
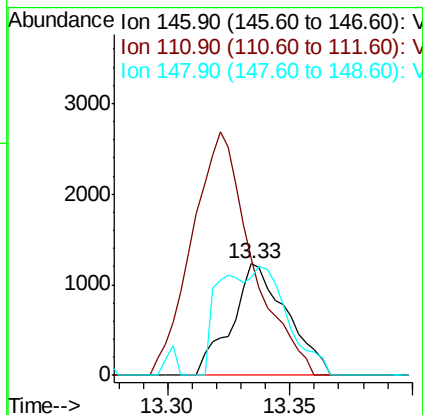
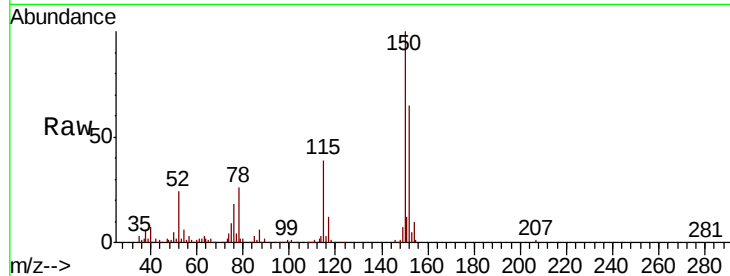




#88
 1,4-Dichlorobenzene
 Concen: Below Cal
 RT: 13.33 min Scan# 3606
 Delta R.T. -0.00 min
 Lab File: VN063320.D
 Acq: 11 Sep 2020 17:30

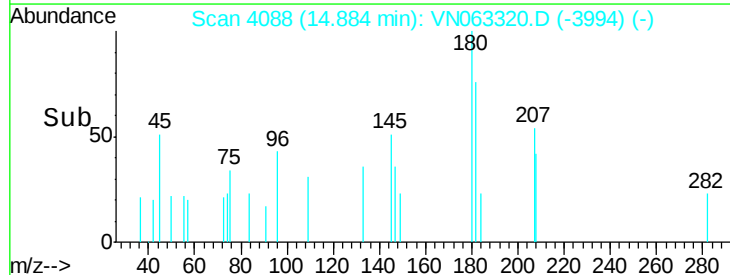
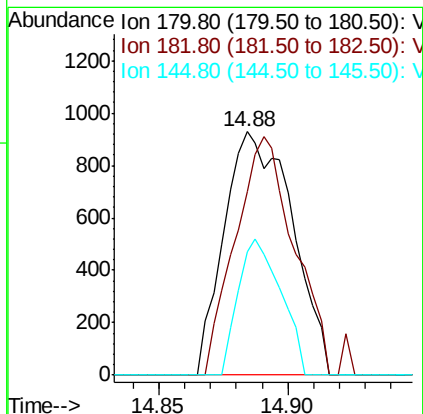
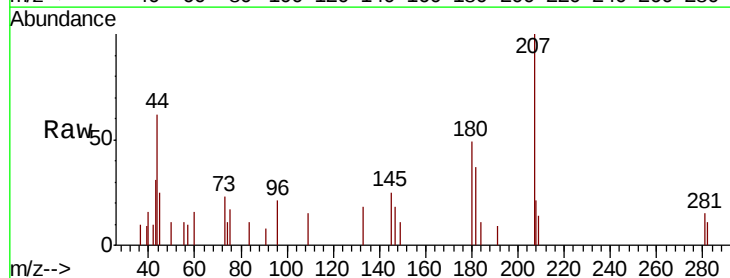
Instrument :
 MSVOA_N
 ClientSampled :

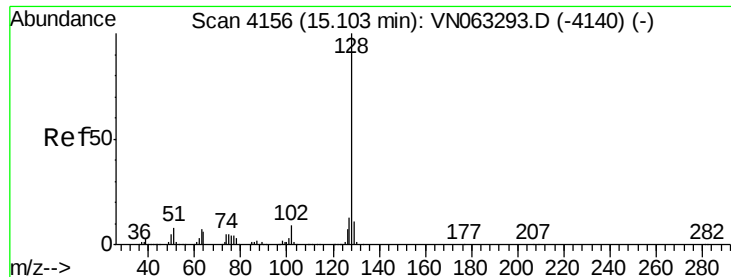
Tot Ion:146 Resp: 1920
 Ion Ratio Lower Upper
 146 100
 111 239.2 21.3 64.0#
 148 52.4 31.5 94.5



#93
 1,2,4-Trichlorobenzene
 Concen: 0.313 ug/l
 RT: 14.88 min Scan# 4088
 Delta R.T. 0.00 min
 Lab File: VN063320.D
 Acq: 11 Sep 2020 17:30

Tgt Ion:180 Resp: 1708
 Ion Ratio Lower Upper
 180 100
 182 84.7 48.0 144.2
 145 35.2 16.6 49.8





#95

Naphthalene

Concen: Below Cal

RT: 15.13 min Scan# 4163

Delta R.T. 0.02 min

Lab File: VN063320.D

Acq: 11 Sep 2020 17:30

Instrument :

MSVOA_N

ClientSampled :

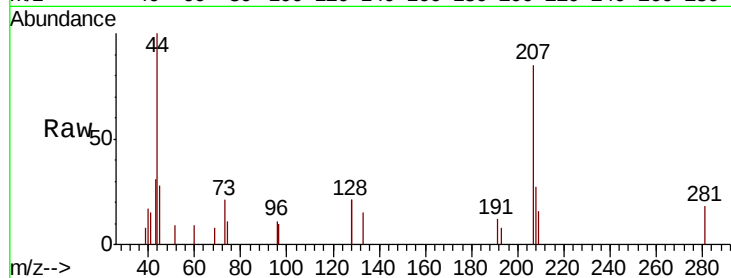
Tot Ion:128 Resp: 1389

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

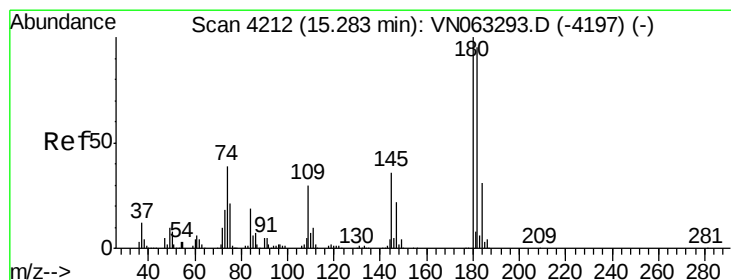
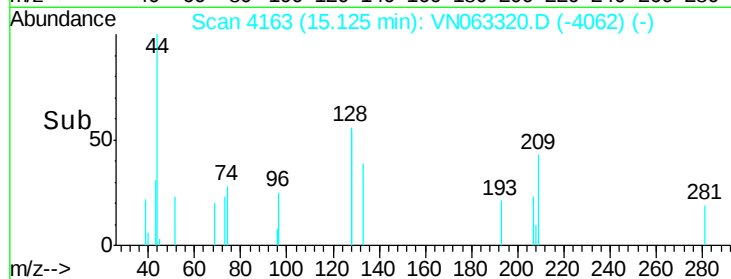
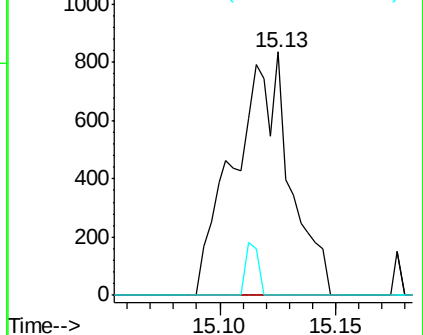
129 4.8 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: Below Cal

RT: 15.28 min Scan# 4210

Delta R.T. -0.01 min

Lab File: VN063320.D

Acq: 11 Sep 2020 17:30

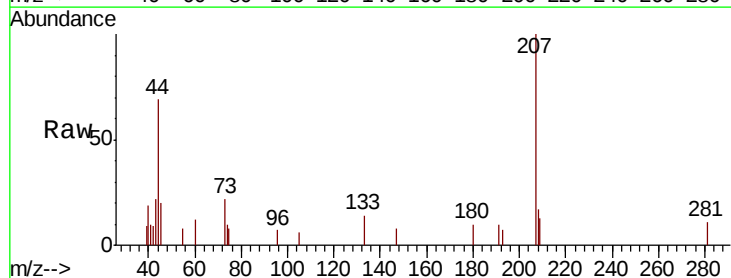
Tgt Ion:180 Resp: 172

Ion Ratio Lower Upper

180 100

182 0.0 47.4 142.3#

145 18.0 17.2 51.6



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

