

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091120\
 Data File : VN063323.D
 Acq On : 11 Sep 2020 18:42
 Operator : JC/MD
 Sample : L3988-11
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 12 00:43:24 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	364439	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	683901	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	663818	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	267995	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	280779	49.04	ug/l	0.00
Spiked Amount			Recovery	=	98.08%	
35) Dibromofluoromethane	7.55	113	217188	49.23	ug/l	0.00
Spiked Amount			Recovery	=	98.46%	
50) Toluene-d8	10.06	98	874601	51.73	ug/l	0.00
Spiked Amount			Recovery	=	103.46%	
62) 4-Bromofluorobenzene	12.38	95	323033	51.73	ug/l	0.00
Spiked Amount			Recovery	=	103.46%	

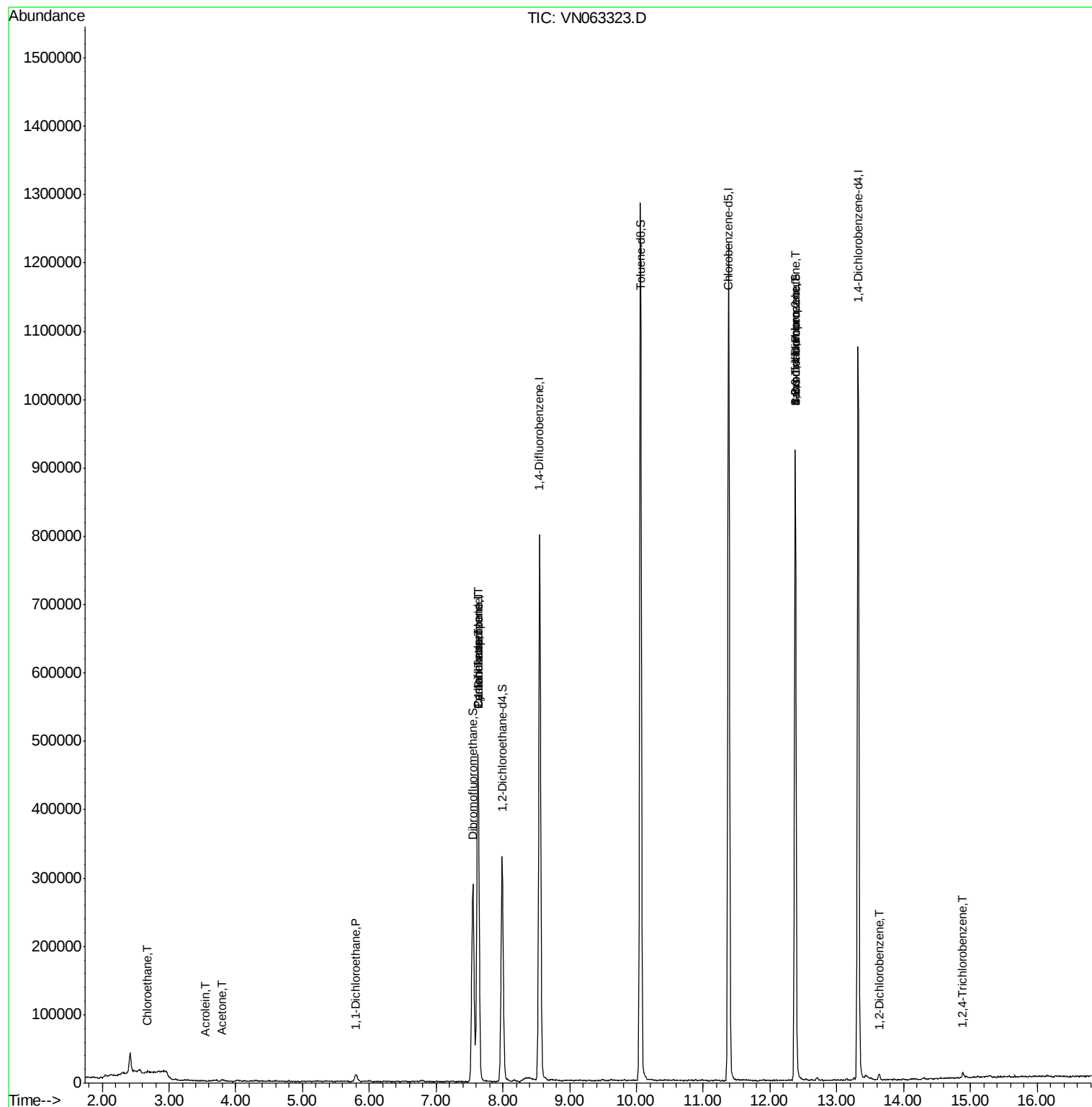
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	2149	Below Cal	#	68
6) Chloroethane	2.68	64	1198	0.370	ug/l	90
13) Acrolein	3.55	56	29	32.519	ug/l #	1
16) Acetone	3.78	43	2243	1.134	ug/l #	63
17) Carbon Disulfide	4.02	76	468	Below Cal	#	75
20) Methylene Chloride	4.51	84	344	Below Cal	#	52
24) 1,1-Dichloroethane	5.80	63	13927	1.594	ug/l	98
31) Cyclohexane	7.63	56	10073	1.254	ug/l #	23
36) 1,1-Dichloropropene	7.63	75	32617	4.640	ug/l #	47
38) Carbon Tetrachloride	7.62	117	39911	5.769	ug/l #	18
71) Bromoform	12.37	173	797	0.221	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	176556	29.862	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	176556	80.234	ug/l #	9
88) 1,4-Dichlorobenzene	13.25	146	1440	Below Cal		94
91) 1,2-Dichlorobenzene	13.63	146	2404	0.268	ug/l	95
93) 1,2,4-Trichlorobenzene	14.89	180	2366	0.450	ug/l	91
95) Naphthalene	15.12	128	1161	Below Cal	#	69
96) 1,2,3-Trichlorobenzene	15.30	180	804	Below Cal	#	25

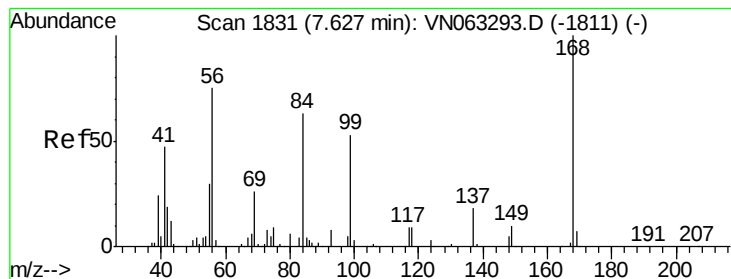
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.00 min

Lab File: VN063323.D

Acq: 11 Sep 2020 18:42

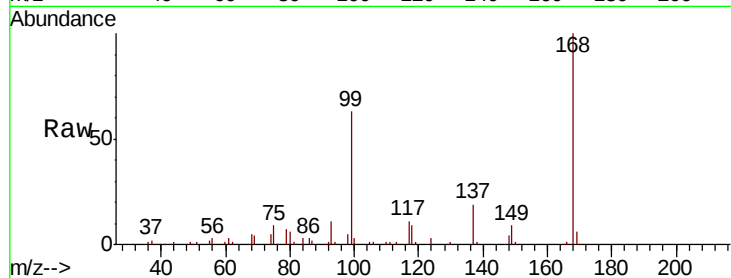
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 364439

Ion Ratio Lower Upper

168 100

99 62.7 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

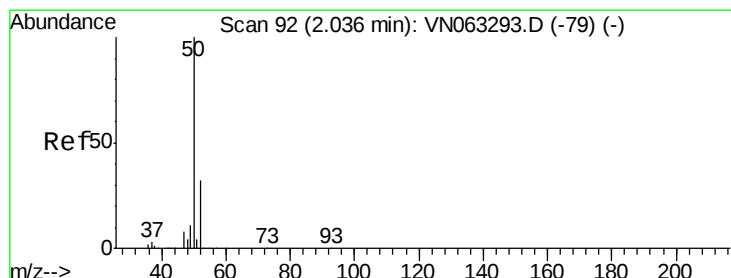
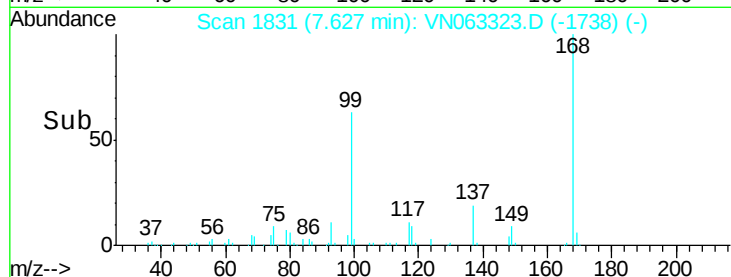
150000

100000

50000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 93

Delta R.T. 0.00 min

Lab File: VN063323.D

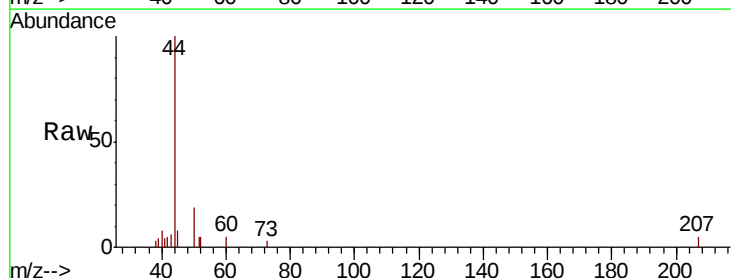
Acq: 11 Sep 2020 18:42

Tgt Ion: 50 Resp: 2149

Ion Ratio Lower Upper

50 100

52 49.7 25.4 38.2#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

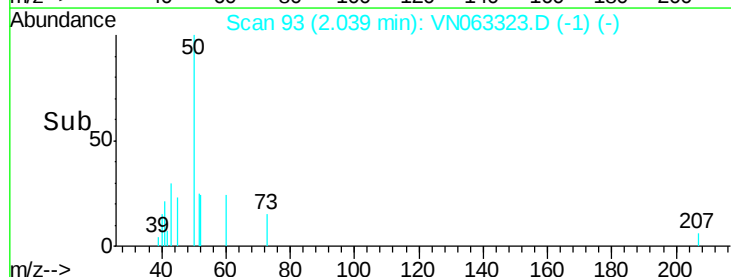
2.04

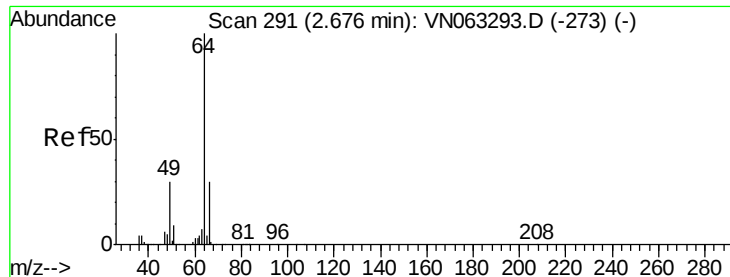
1000

500

0

Time--> 2.00 2.05





#6

Chloroethane

Concen: 0.370 ug/l

RT: 2.68 min Scan# 293

Delta R.T. 0.01 min

Lab File: VN063323.D

Acq: 11 Sep 2020 18:42

Instrument :

MSVOA_N

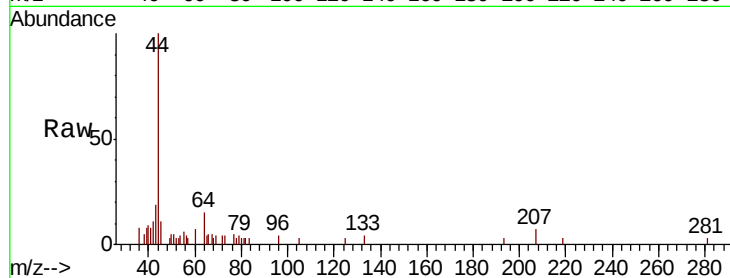
ClientSampleId :

Tot Ion: 64 Resp: 1198

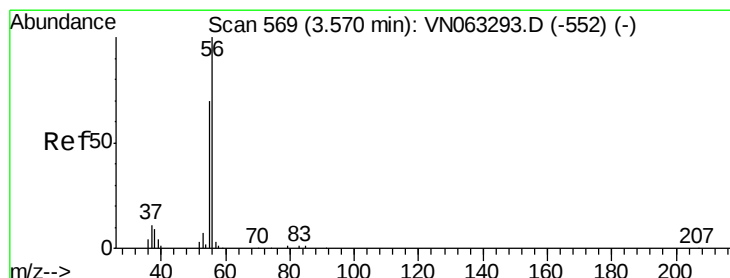
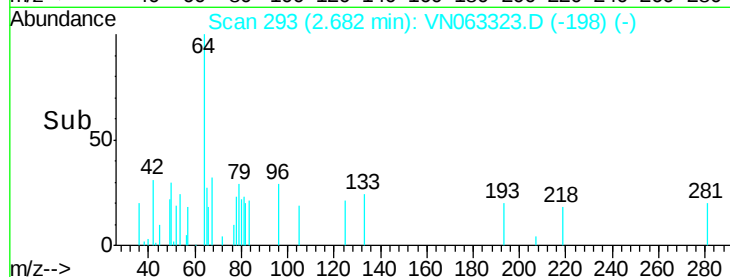
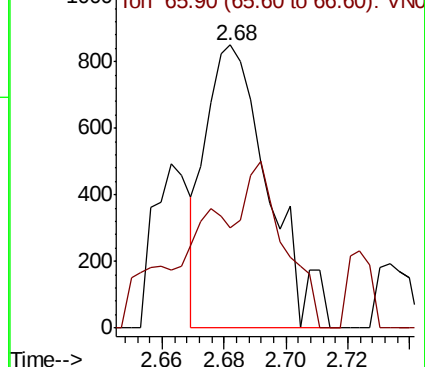
Ion Ratio Lower Upper

64 100

66 35.3 23.8 35.6



Abundance Ion 63.90 (63.60 to 64.60): VN063323.D (-198) (-)



#13

Acrolein

Concen: 32.519 ug/l

RT: 3.55 min Scan# 564

Delta R.T. -0.02 min

Lab File: VN063323.D

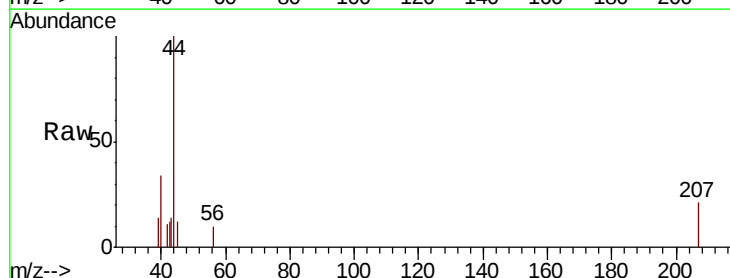
Acq: 11 Sep 2020 18:42

Tgt Ion: 56 Resp: 29

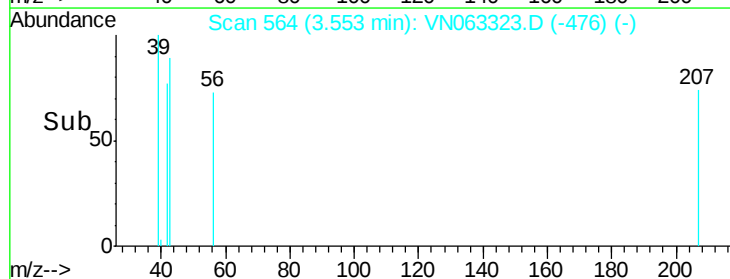
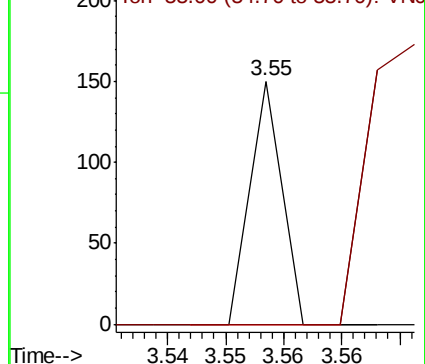
Ion Ratio Lower Upper

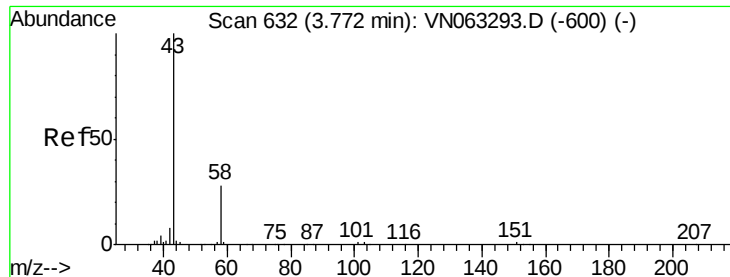
56 100

55 220.7 57.2 85.8#



Abundance Ion 56.00 (55.70 to 56.70): VN063323.D (-476) (-)





#16

Acetone

Concen: 1.134 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.01 min

Lab File: VN063323.D

Acq: 11 Sep 2020 18:42

Instrument :

MSVOA_N

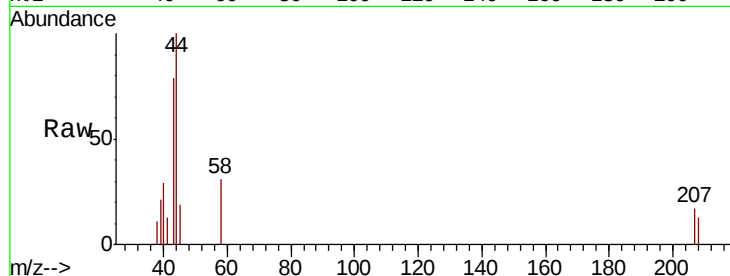
ClientSampled :

Tot Ion: 43 Resp: 2243

Ion Ratio Lower Upper

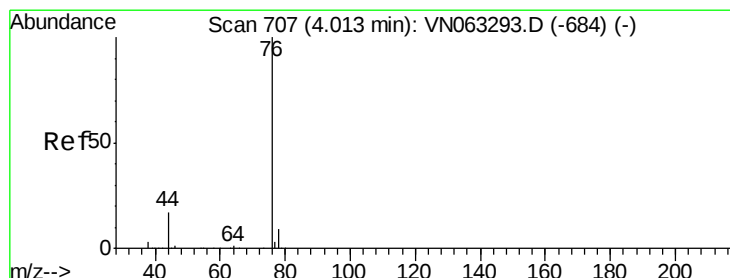
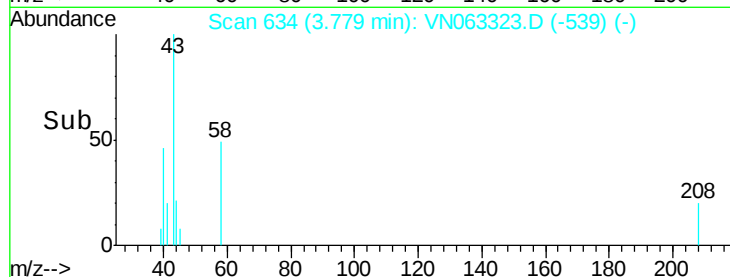
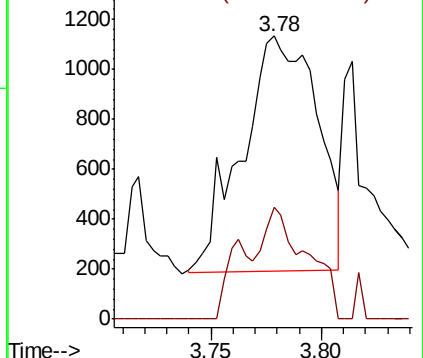
43 100

58 47.9 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# 709

Delta R.T. 0.01 min

Lab File: VN063323.D

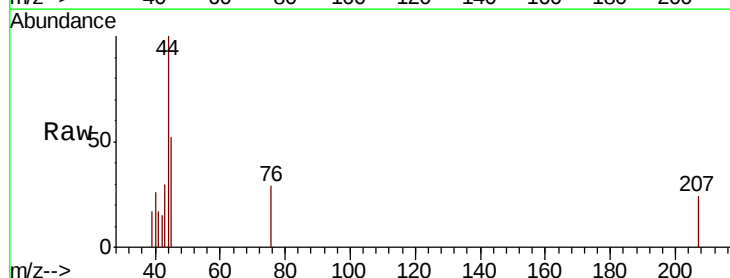
Acq: 11 Sep 2020 18:42

Tgt Ion: 76 Resp: 468

Ion Ratio Lower Upper

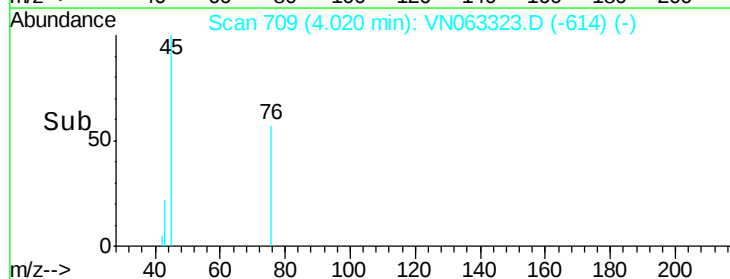
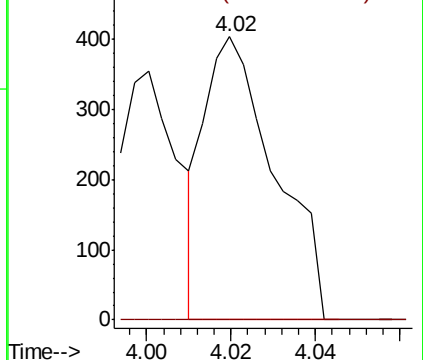
76 100

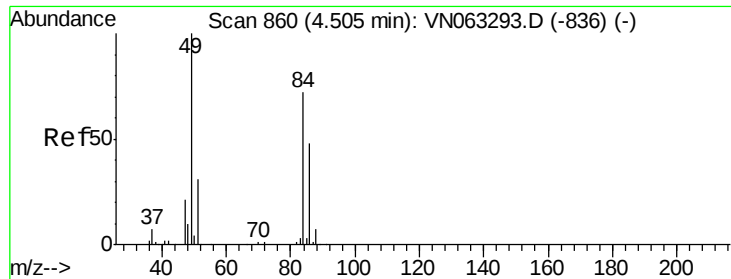
78 0.0 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

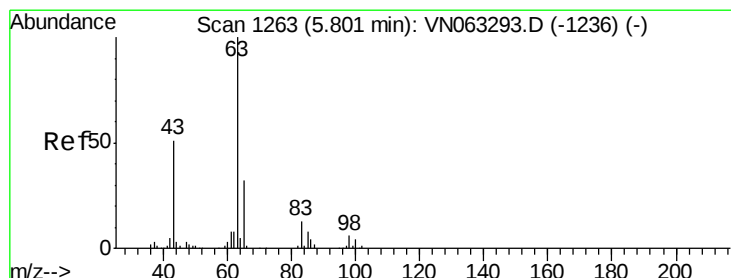
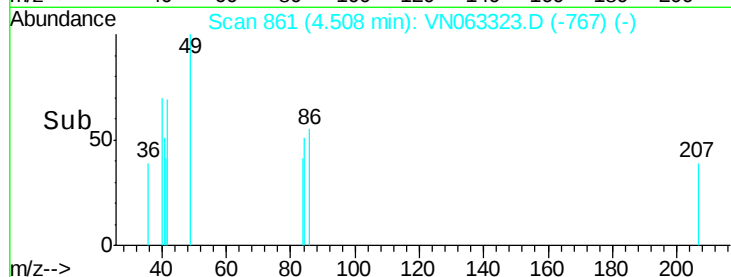
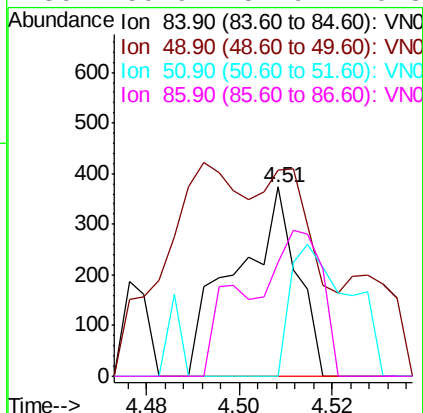
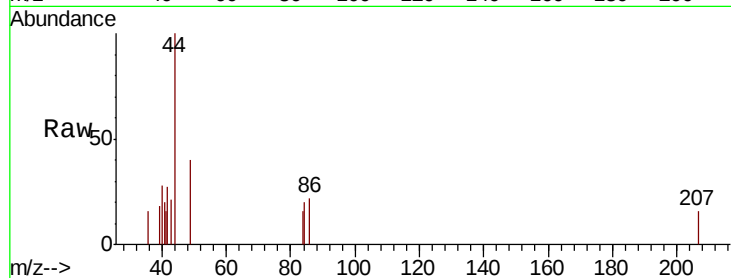




#20
Methylene Chloride
Concen: Below Cal
RT: 4.51 min Scan# 861
Delta R.T. 0.00 min
Lab File: VN063323.D
Acq: 11 Sep 2020 18:42

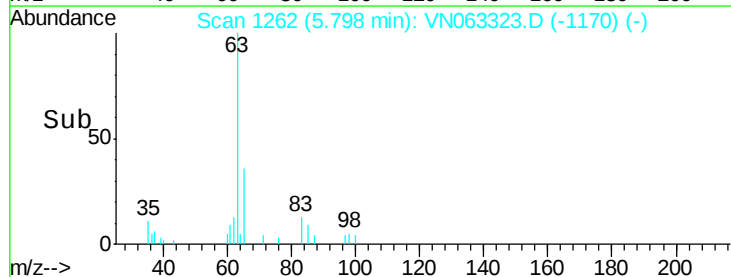
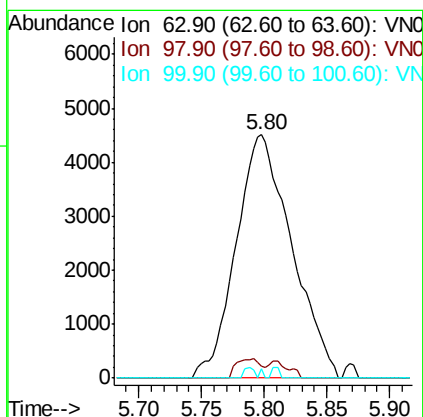
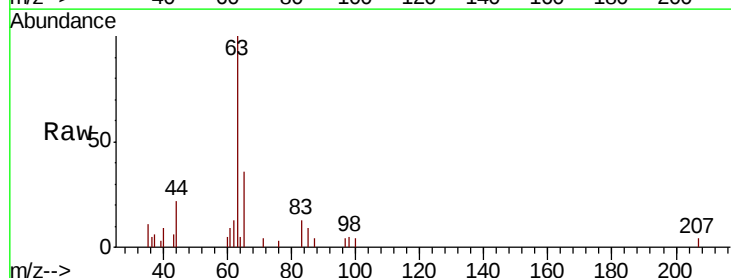
Instrument :
MSVOA_N
ClientSampled :

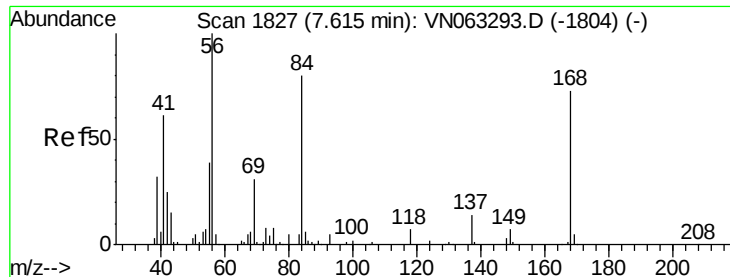
Tot Ion: 84 Resp: 344
Ion Ratio Lower Upper
84 100
49 65.0 111.1 166.7#
51 0.0 34.3 51.5#
86 59.9 52.9 79.3



#24
1,1-Dichloroethane
Concen: 1.594 ug/l
RT: 5.80 min Scan# 1262
Delta R.T. -0.00 min
Lab File: VN063323.D
Acq: 11 Sep 2020 18:42

Tgt Ion: 63 Resp: 13927
Ion Ratio Lower Upper
63 100
98 5.1 3.1 9.3
100 3.7 2.0 6.0

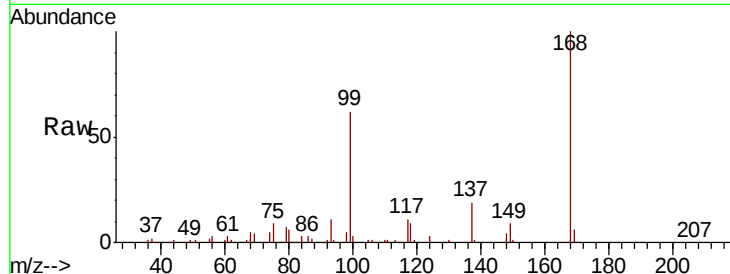




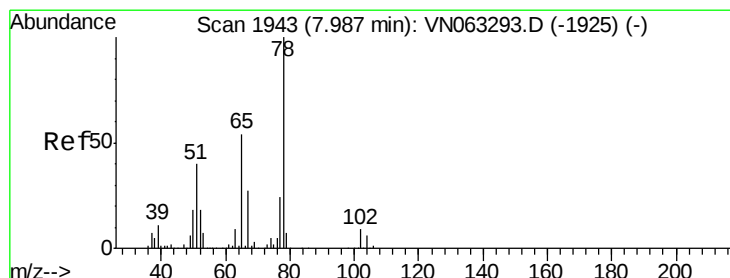
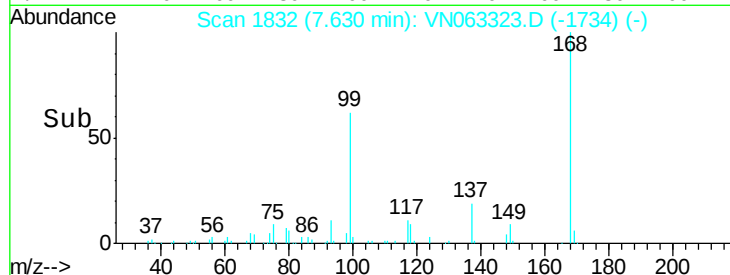
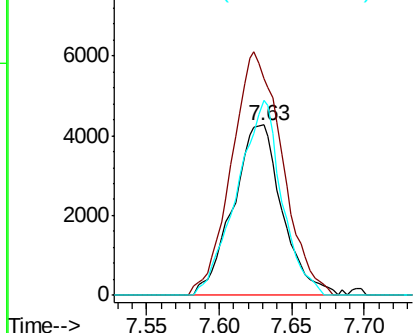
#31
Cyclohexane
Concen: 1.254 ug/l
RT: 7.63 min Scan# 1832
Delta R.T. 0.02 min
Lab File: VN063323.D
Acq: 11 Sep 2020 18:42

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 10073
Ion Ratio Lower Upper
56 100
69 127.2 25.1 37.7#
84 114.8 64.2 96.2#

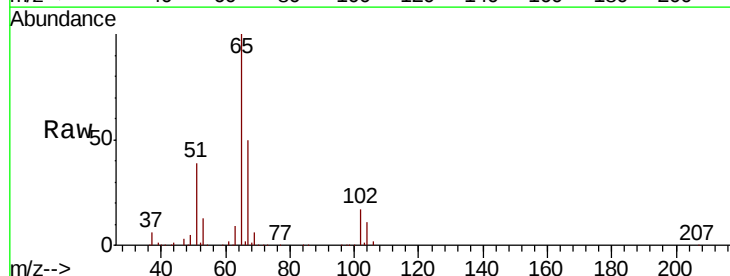


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

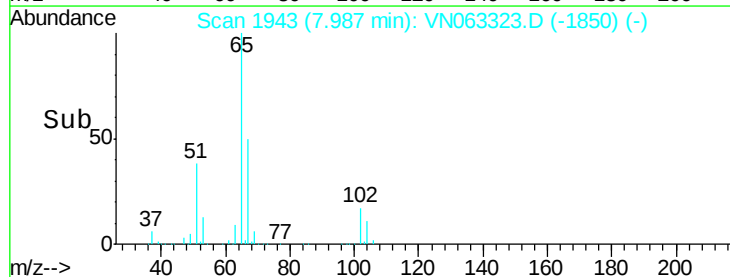
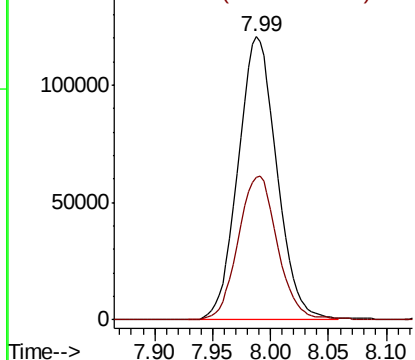


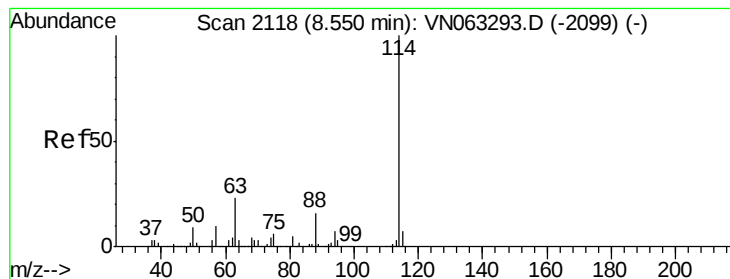
#33
1,2-Dichloroethane-d4
Concen: 49.037 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. -0.00 min
Lab File: VN063323.D
Acq: 11 Sep 2020 18:42

Tgt Ion: 65 Resp: 280779
Ion Ratio Lower Upper
65 100
67 51.8 0.0 104.6



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN063323.D

Acq: 11 Sep 2020 18:42

Instrument :

MSVOA_N

ClientSampleId :

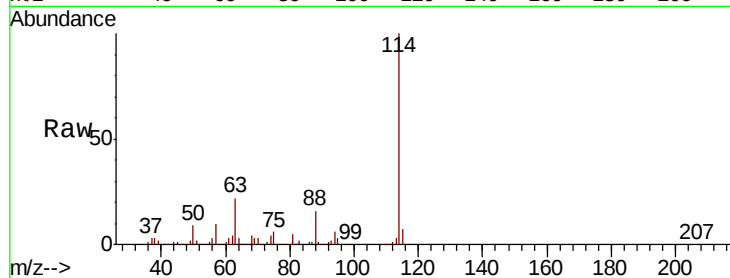
Tot Ion:114 Resp: 683901

Ion Ratio Lower Upper

114 100

63 22.2 0.0 46.0

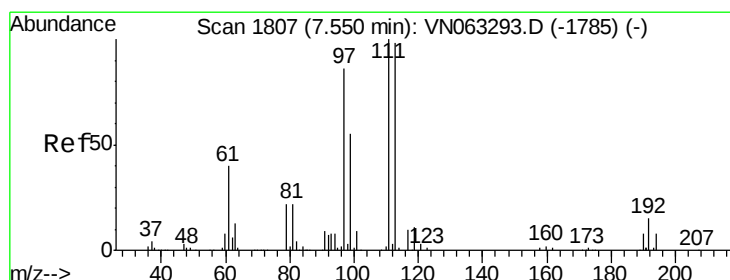
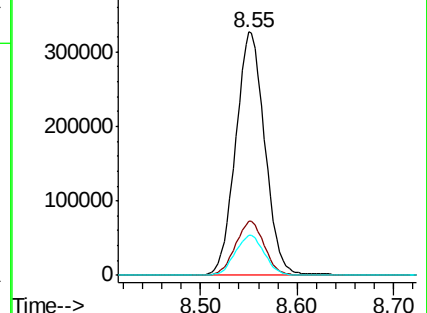
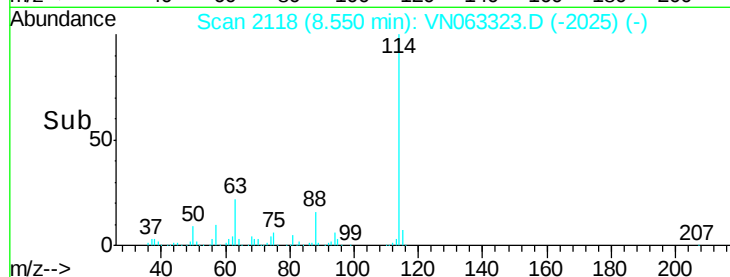
88 16.2 0.0 32.8



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: 49.226 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. -0.00 min

Lab File: VN063323.D

Acq: 11 Sep 2020 18:42

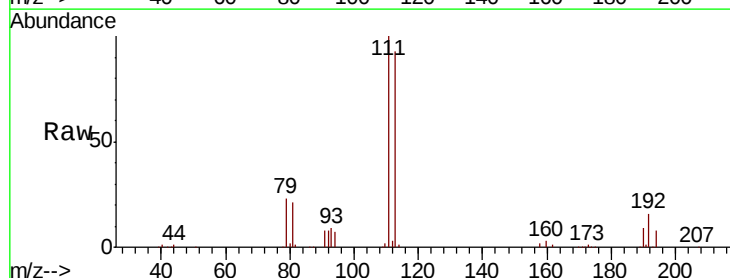
Tgt Ion:113 Resp: 217188

Ion Ratio Lower Upper

113 100

111 104.0 82.2 123.2

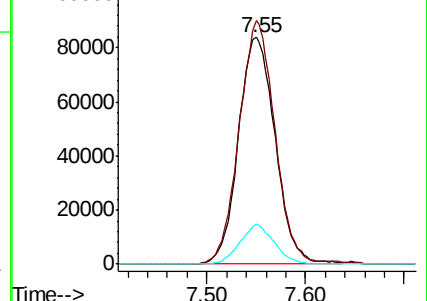
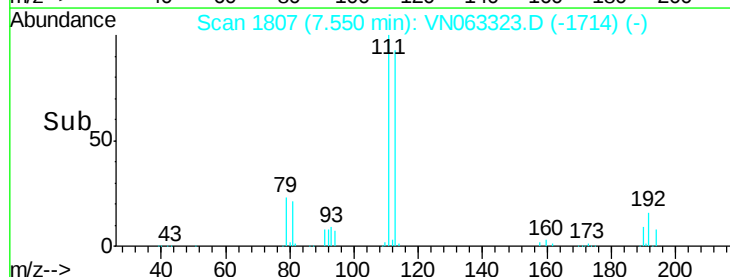
192 16.3 12.9 19.3

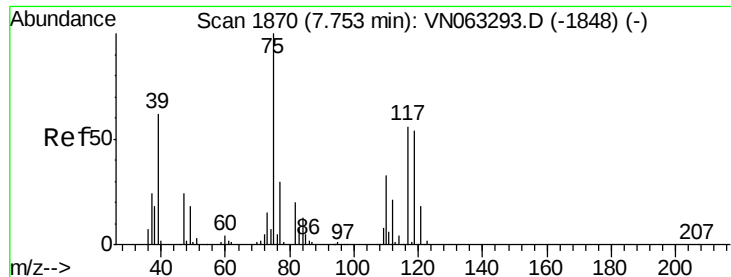


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

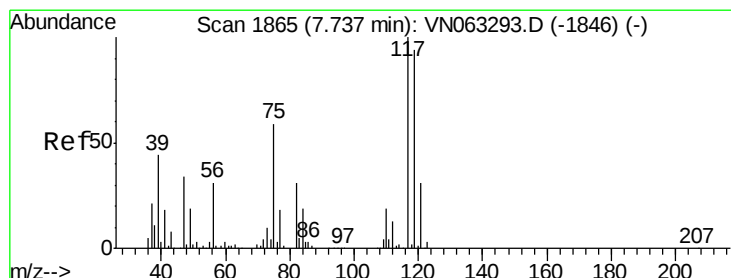
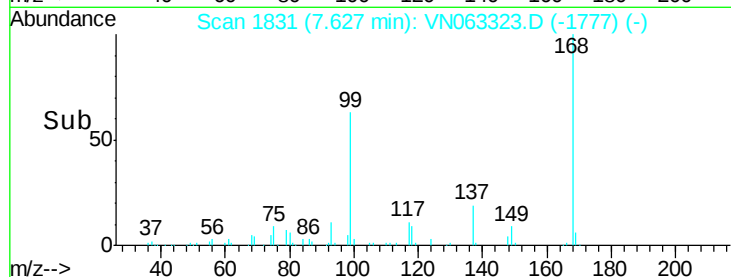
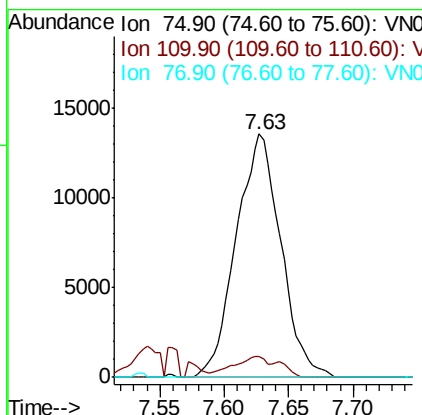
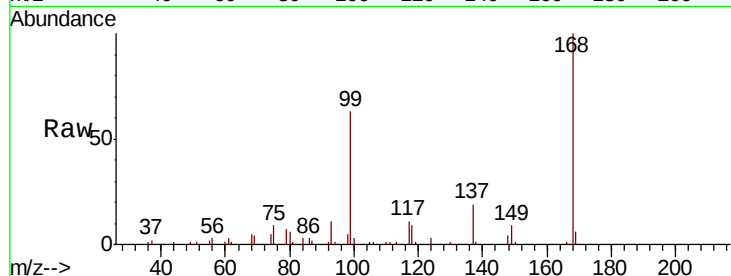




#36
 1,1-Dichloropropene
 Concen: 4.640 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN063323.D
 Acq: 11 Sep 2020 18:42

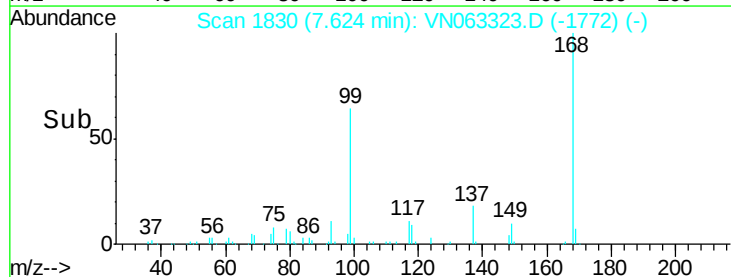
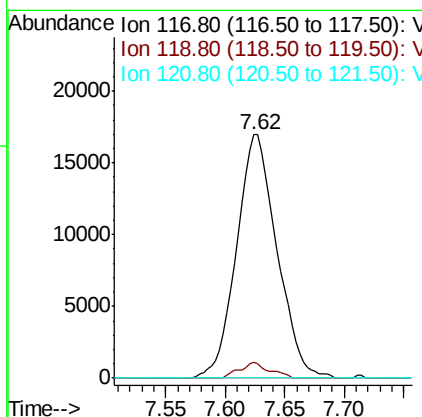
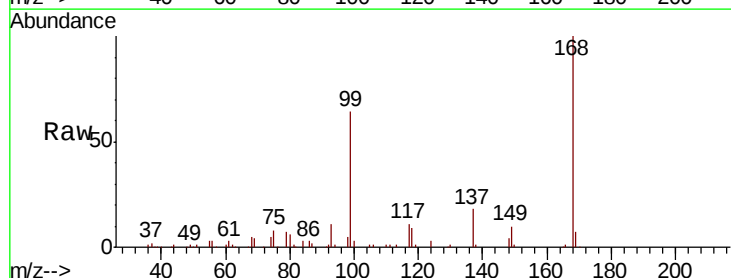
Instrument :
 MSVOA_N
 ClientSampled :

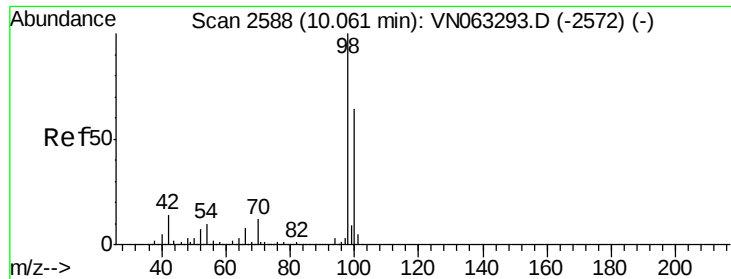
Tot Ion	75	Resp	32617
Ion Ratio	Lower	Upper	
75	100		
110	4.3	16.4	49.4#
77	0.0	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 5.769 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.11 min
 Lab File: VN063323.D
 Acq: 11 Sep 2020 18:42

Tgt Ion	117	Resp	39911
Ion Ratio <td>Lower</td> <td>Upper</td> <td></td>	Lower	Upper	
117	100		
119	6.5	75.3	112.9#
121	0.0	24.6	37.0#





#50

Toluene-d8

Concen: 51.727 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. -0.00 min

Lab File: VN063323.D

Acq: 11 Sep 2020 18:42

Instrument :

MSVOA_N

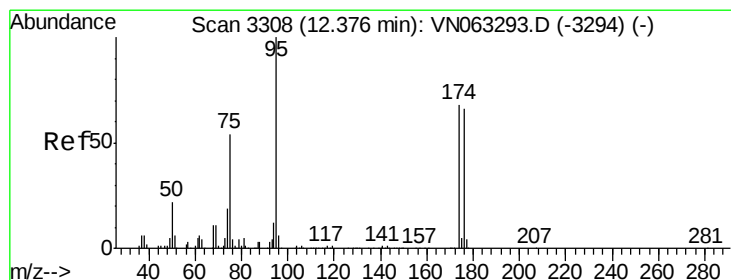
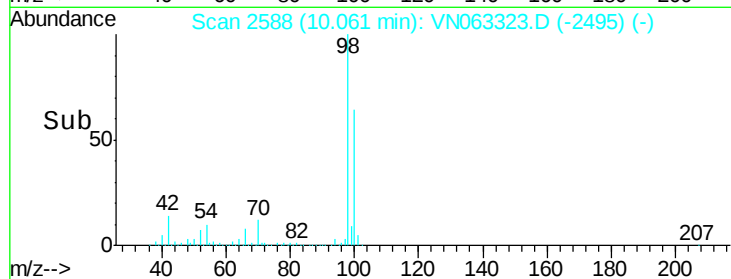
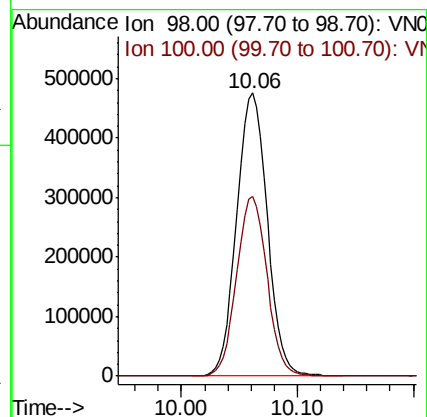
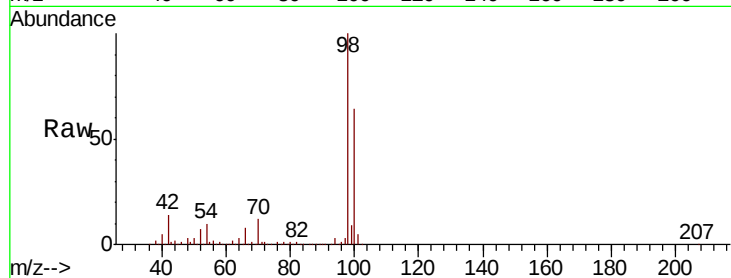
ClientSampled :

Tot Ion: 98 Resp: 874601

Ion Ratio Lower Upper

98 100

100 63.2 50.7 76.1



#62

4-Bromofluorobenzene

Concen: 51.727 ug/l

RT: 12.38 min Scan# 3309

Delta R.T. 0.00 min

Lab File: VN063323.D

Acq: 11 Sep 2020 18:42

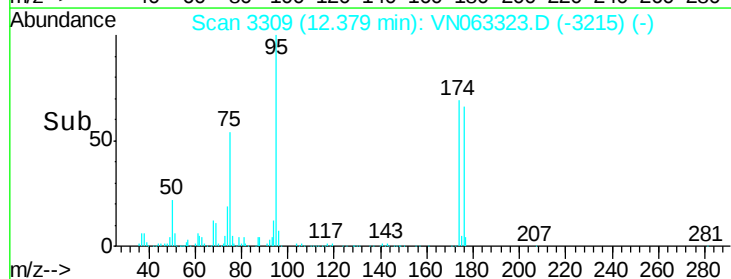
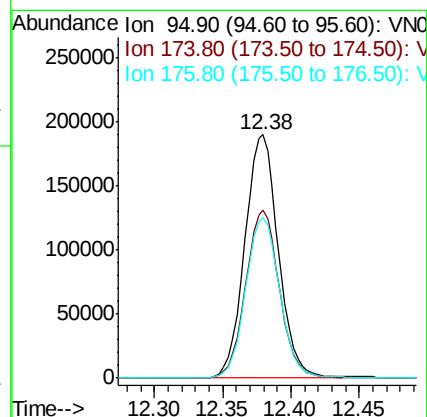
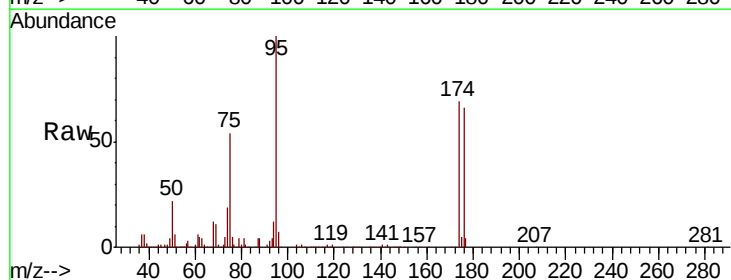
Tgt Ion: 95 Resp: 323033

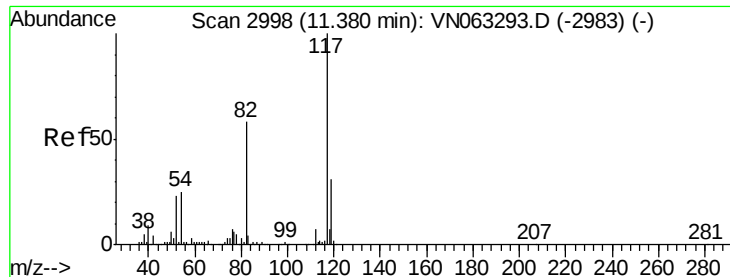
Ion Ratio Lower Upper

95 100

174 69.7 0.0 136.6

176 67.4 0.0 132.8

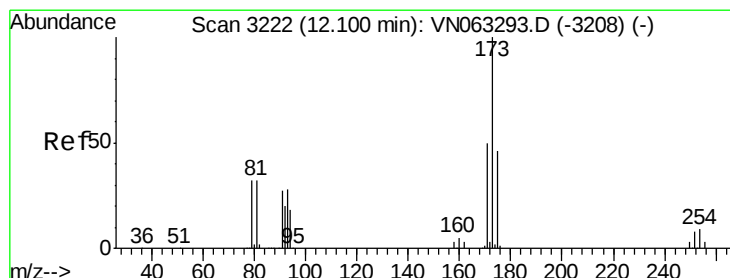
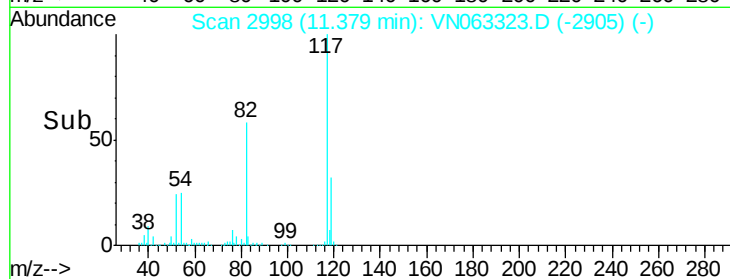
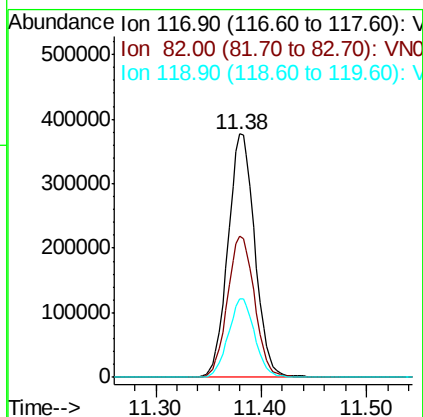
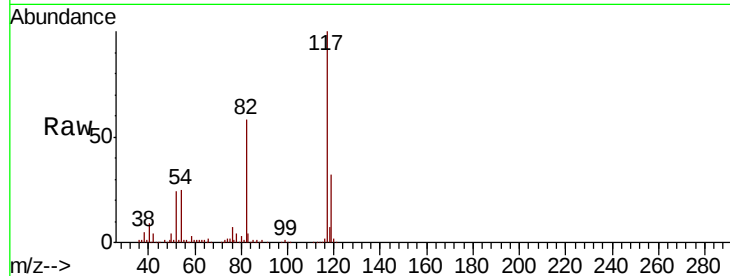




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063323.D
Acq: 11 Sep 2020 18:42

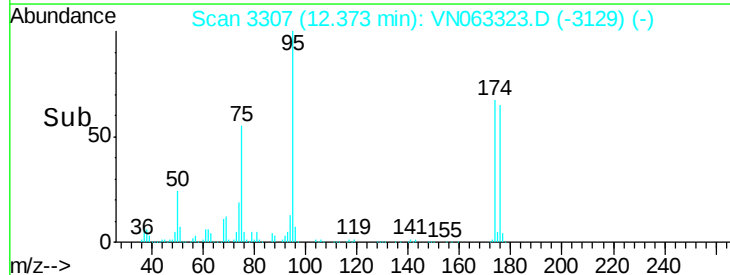
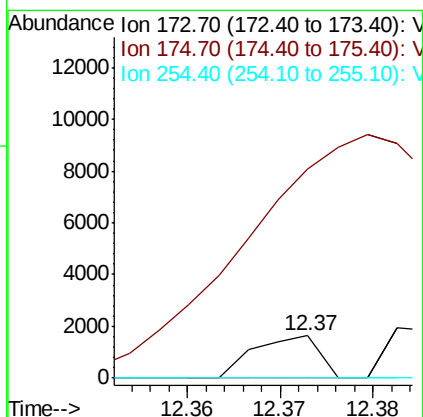
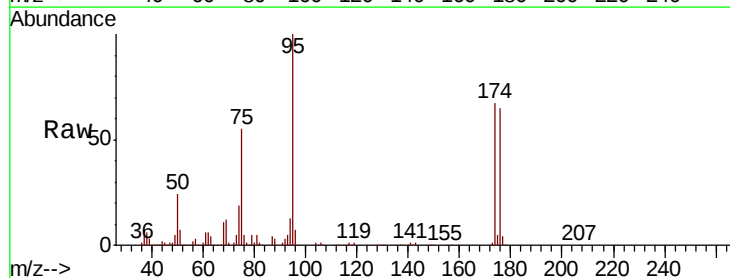
Instrument :
MSVOA_N
ClientSampleId :

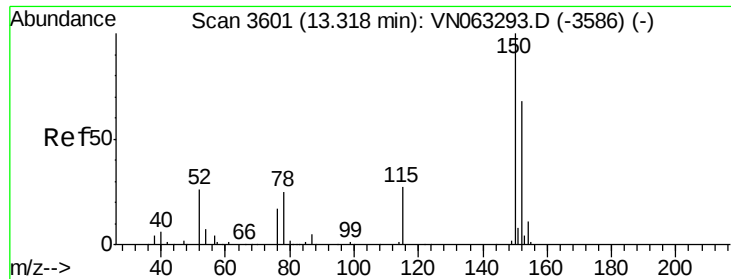
Tot Ion:117 Resp: 663818
Ion Ratio Lower Upper
117 100
82 58.2 46.4 69.6
119 32.1 24.8 37.2



#71
Bromoform
Concen: 0.221 ug/l
RT: 12.37 min Scan# 3307
Delta R.T. 0.27 min
Lab File: VN063323.D
Acq: 11 Sep 2020 18:42

Tgt Ion:173 Resp: 797
Ion Ratio Lower Upper
173 100
175 1601.9 23.8 71.5#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3602

Delta R.T. 0.00 min

Lab File: VN063323.D

Acq: 11 Sep 2020 18:42

Instrument :

MSVOA_N

ClientSampleId :

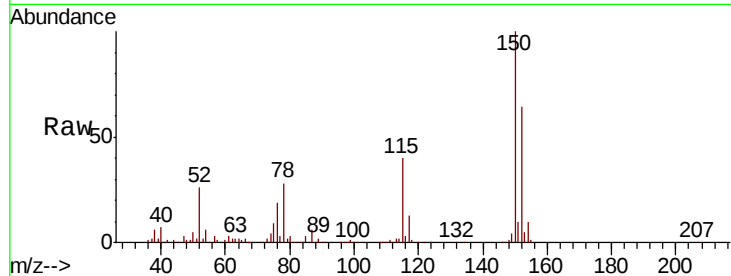
Tot Ion:152 Resp: 267995

Ion Ratio Lower Upper

152 100

115 63.0 31.5 94.5

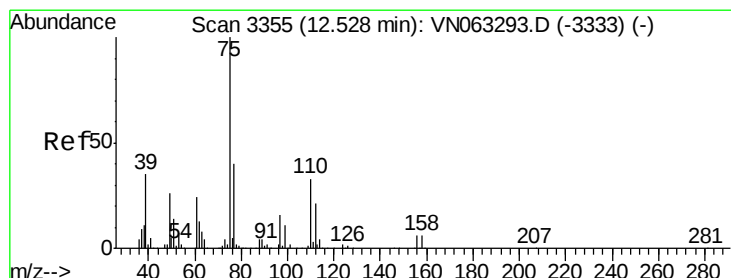
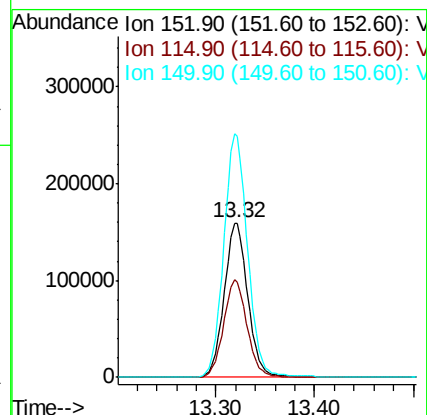
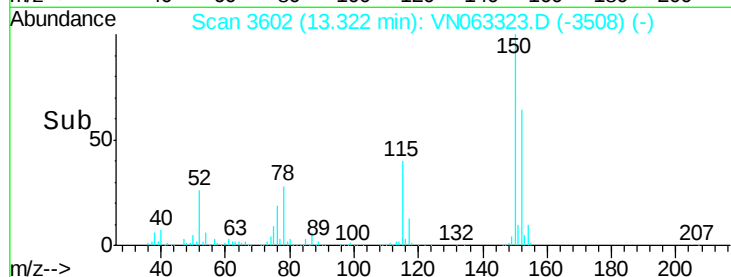
150 159.6 0.0 344.0



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: 29.862 ug/l

RT: 12.38 min Scan# 3309

Delta R.T. -0.15 min

Lab File: VN063323.D

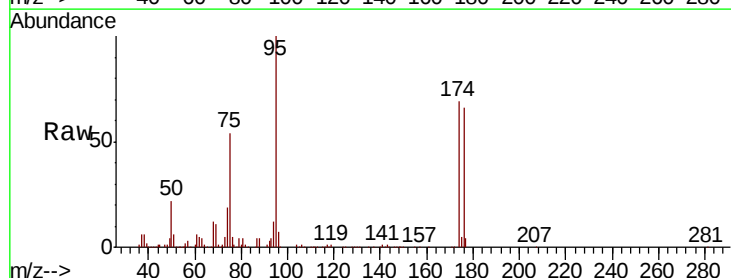
Acq: 11 Sep 2020 18:42

Tgt Ion: 75 Resp: 176556

Ion Ratio Lower Upper

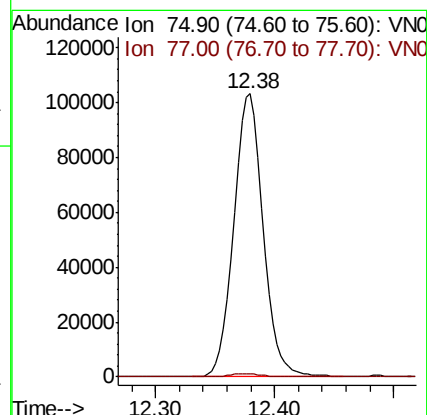
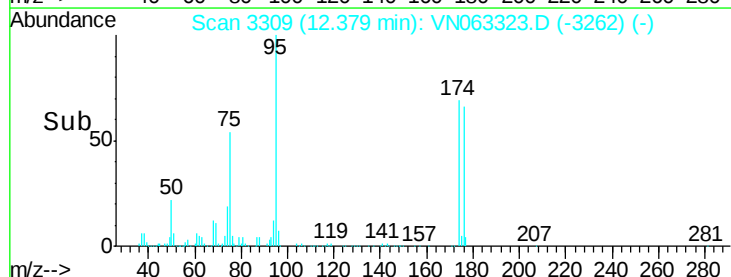
75 100

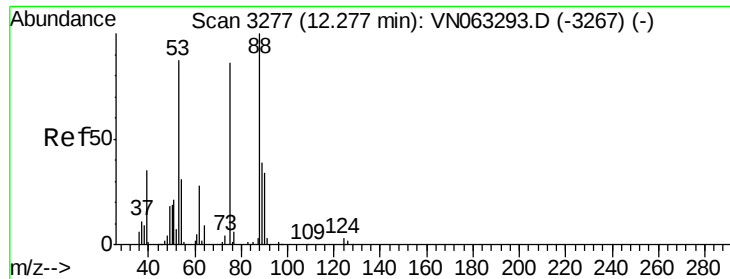
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

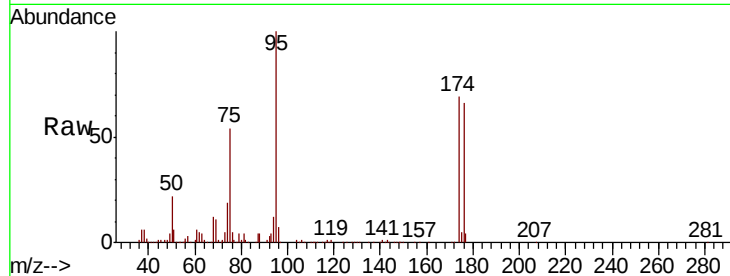




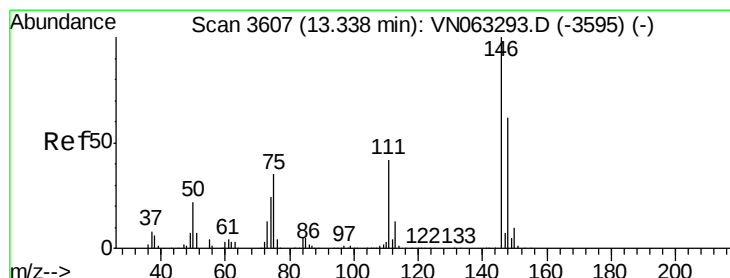
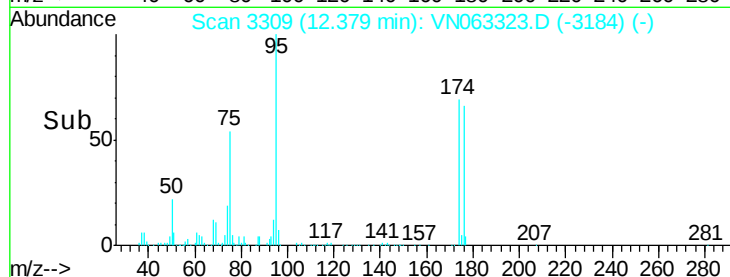
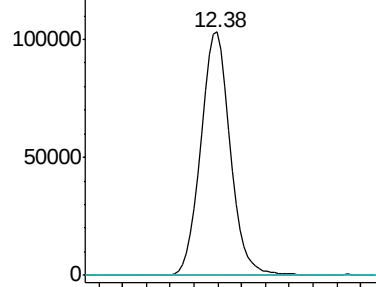
#81
trans-1,4-Dichloro-2-butene
Concen: 80.234 ug/l
RT: 12.38 min Scan# 3309
Delta R.T. 0.10 min
Lab File: VN063323.D
Acq: 11 Sep 2020 18:42

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 75 Resp: 176556
Ion Ratio Lower Upper
75 100
53 0.1 81.8 122.8#
89 0.0 36.7 55.1#

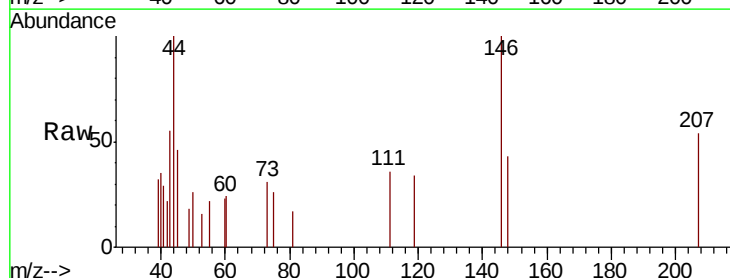


Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 53.00 (52.70 to 53.70): VN0
Ion 88.90 (88.60 to 89.60): VN0

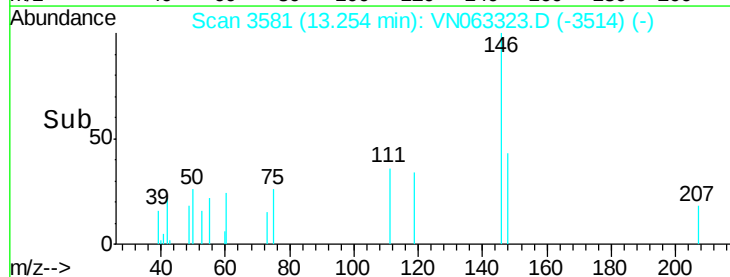
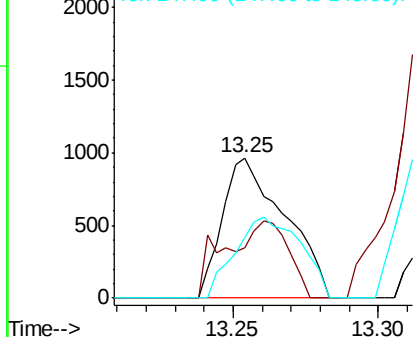


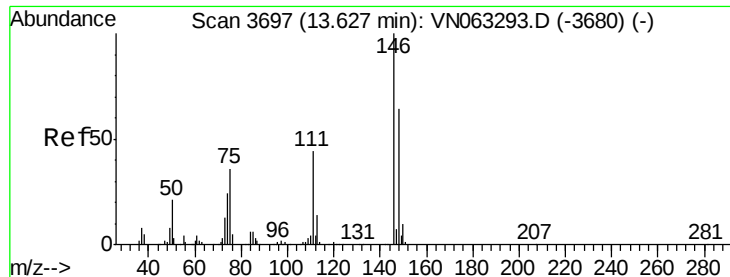
#88
1,4-Dichlorobenzene
Concen: Below Cal
RT: 13.25 min Scan# 3581
Delta R.T. -0.08 min
Lab File: VN063323.D
Acq: 11 Sep 2020 18:42

Tgt Ion: 146 Resp: 1440
Ion Ratio Lower Upper
146 100
111 36.8 21.3 64.0
148 60.4 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

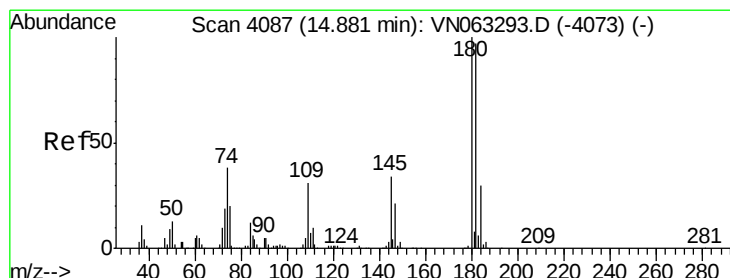
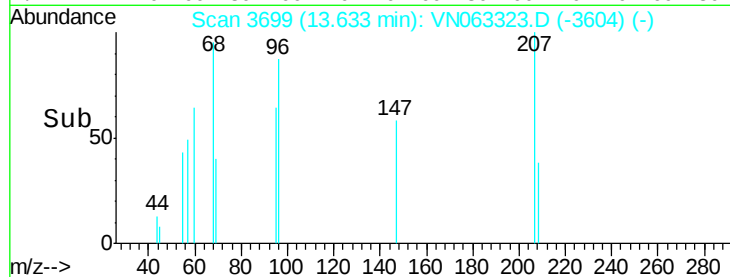
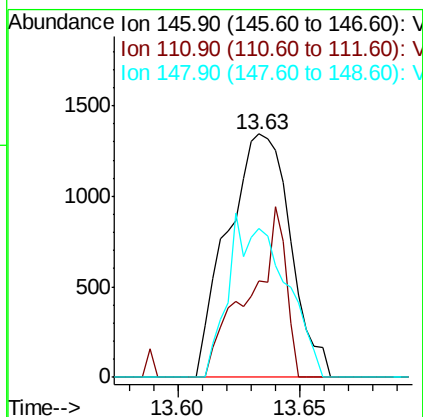
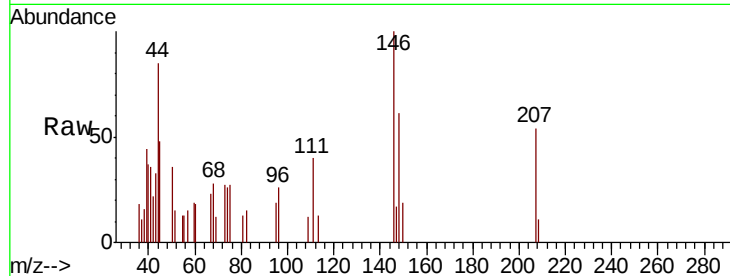




#91
 1,2-Dichlorobenzene
 Concen: 0.268 ug/l
 RT: 13.63 min Scan# 3699
 Delta R.T. 0.01 min
 Lab File: VN063323.D
 Acq: 11 Sep 2020 18:42

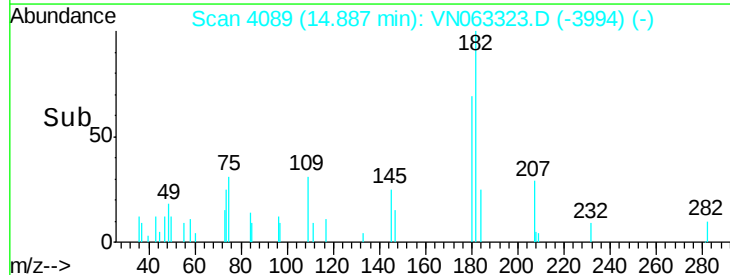
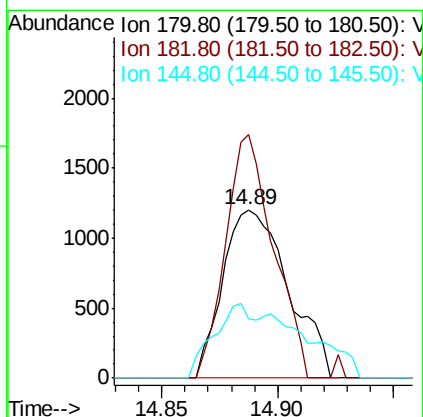
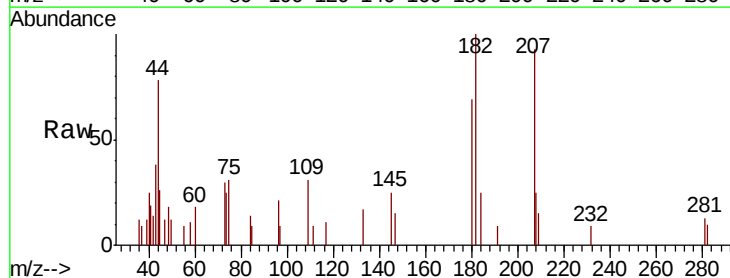
Instrument :
 MSVOA_N
 ClientSampled :

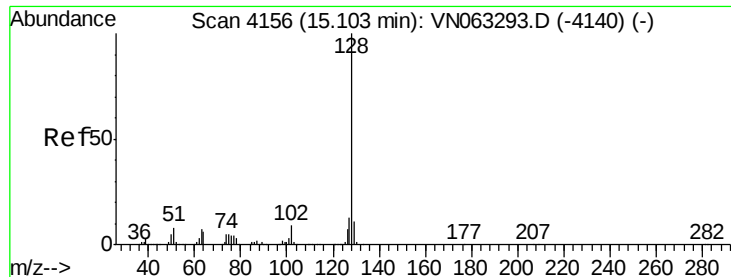
Tot Ion:146 Resp: 2404
 Ion Ratio Lower Upper
 146 100
 111 41.4 22.1 66.5
 148 58.9 31.8 95.3



#93
 1,2,4-Trichlorobenzene
 Concen: 0.450 ug/l
 RT: 14.89 min Scan# 4089
 Delta R.T. 0.01 min
 Lab File: VN063323.D
 Acq: 11 Sep 2020 18:42

Tgt Ion:180 Resp: 2366
 Ion Ratio Lower Upper
 180 100
 182 104.9 48.0 144.2
 145 27.1 16.6 49.8

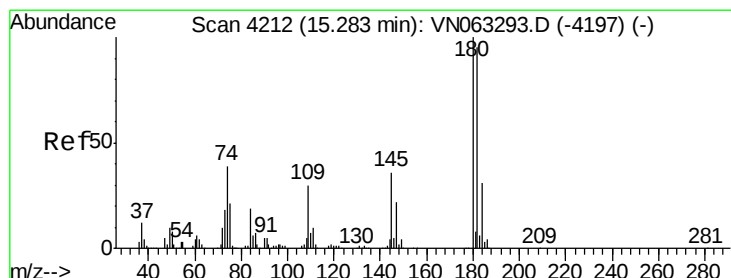
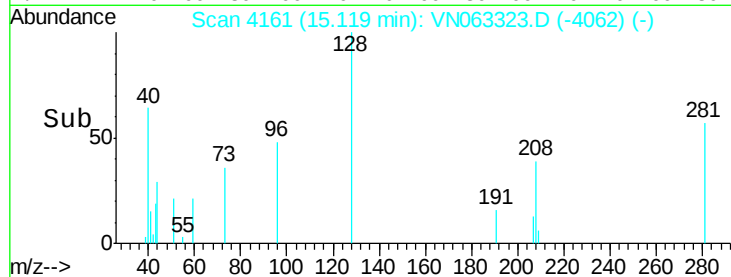
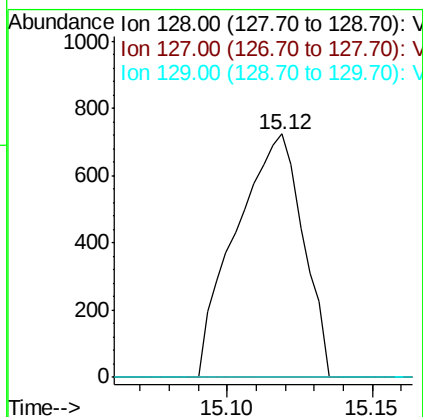
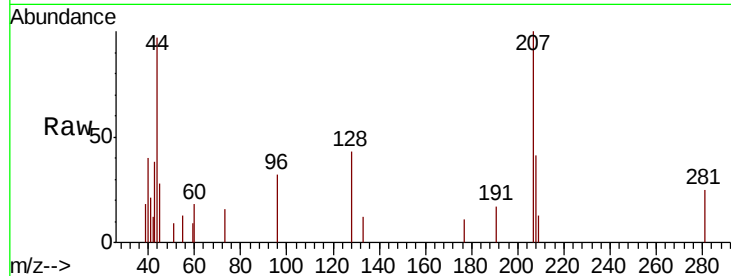




#95
Naphthalene
Concen: Below Cal
RT: 15.12 min Scan# 4161
Delta R.T. 0.02 min
Lab File: VN063323.D
Acq: 11 Sep 2020 18:42

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:128 Resp: 1161
Ion Ratio Lower Upper
128 100
127 0.0 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: VN063323.D
Acq: 11 Sep 2020 18:42

Tgt Ion:180 Resp: 804
Ion Ratio Lower Upper
180 100
182 0.0 47.4 142.3#
145 28.2 17.2 51.6

