

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091120\
 Data File : VN063307.D
 Acq On : 11 Sep 2020 11:33
 Operator : JC/MD
 Sample : VN0911WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 12 00:38:52 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	376898	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	709001	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	683157	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	277978	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	290794	49.11	ug/l	0.00
Spiked Amount			Recovery	=	98.22%	
35) Dibromofluoromethane	7.55	113	225368	49.27	ug/l	0.00
Spiked Amount			Recovery	=	98.54%	
50) Toluene-d8	10.06	98	912816	52.08	ug/l	0.00
Spiked Amount			Recovery	=	104.16%	
62) 4-Bromofluorobenzene	12.38	95	336031	51.90	ug/l	0.00
Spiked Amount			Recovery	=	103.80%	

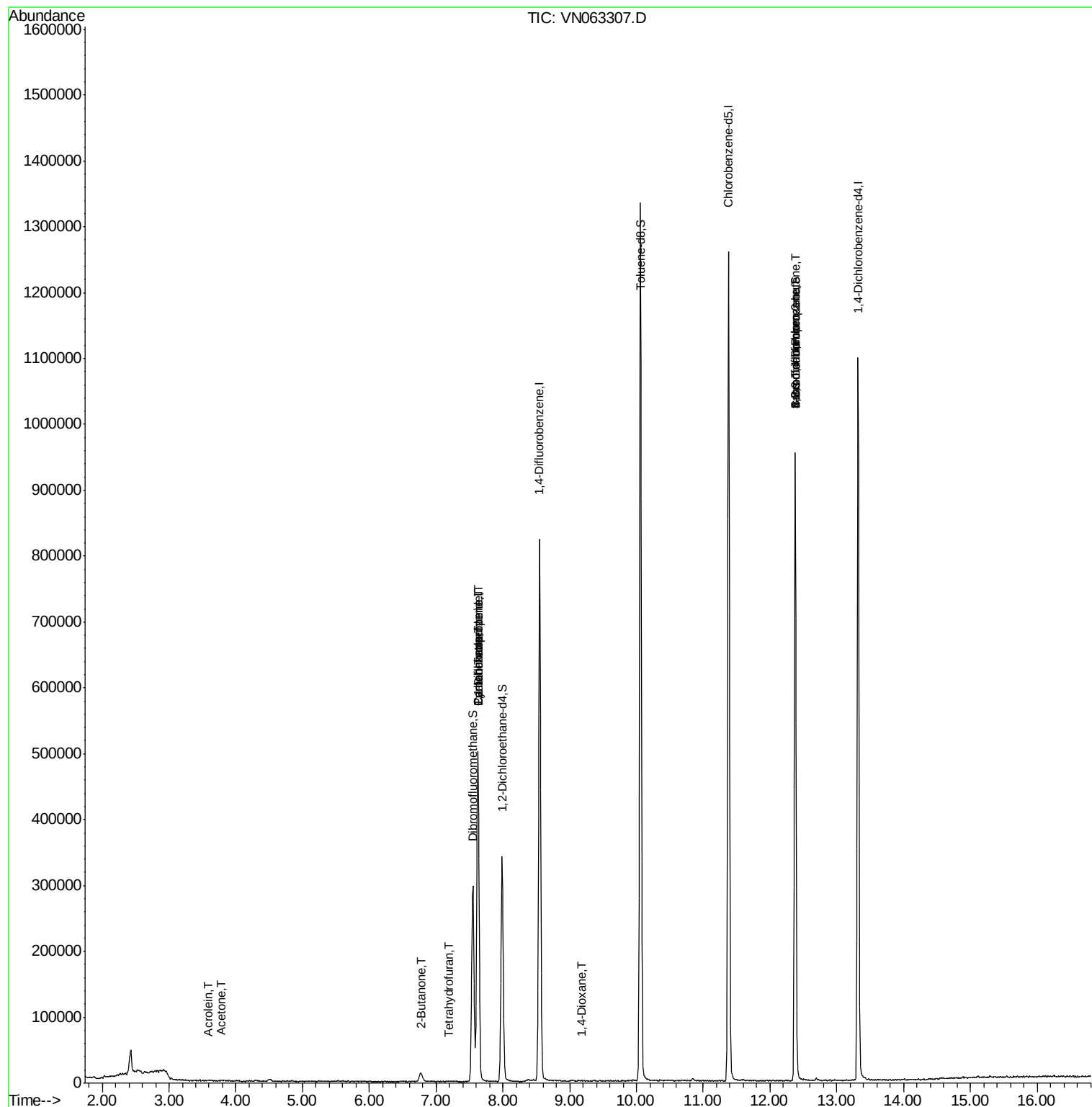
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	1783	Below Cal	#	84
13) Acrolein	3.58	56	195	32.855	ug/l #	54
16) Acetone	3.79	43	741	0.362	ug/l	99
17) Carbon Disulfide	4.02	76	1067	Below Cal	#	75
20) Methylene Chloride	4.50	84	1582	Below Cal	#	47
25) 2-Butanone	6.78	43	991	0.328	ug/l #	51
29) Tetrahydrofuran	7.19	42	426	0.217	ug/l #	37
31) Cyclohexane	7.62	56	11242	1.354	ug/l #	19
36) 1,1-Dichloropropene	7.63	75	34760	4.770	ug/l #	46
38) Carbon Tetrachloride	7.63	117	41658	5.808	ug/l #	17
49) 1,4-Dioxane	9.17	88	33	0.368	ug/l #	1
71) Bromoform	12.38	173	796	0.215	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	182087	29.692	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	182087	79.776	ug/l #	9
88) 1,4-Dichlorobenzene	13.34	146	563	Below Cal	#	1
94) Hexachlorobutadiene	14.99	225	102	Below Cal	#	19
95) Naphthalene	15.11	128	2827	Below Cal	#	86
96) 1,2,3-Trichlorobenzene	15.28	180	215	Below Cal	#	12

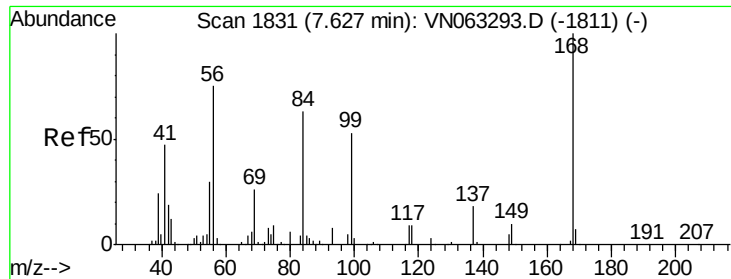
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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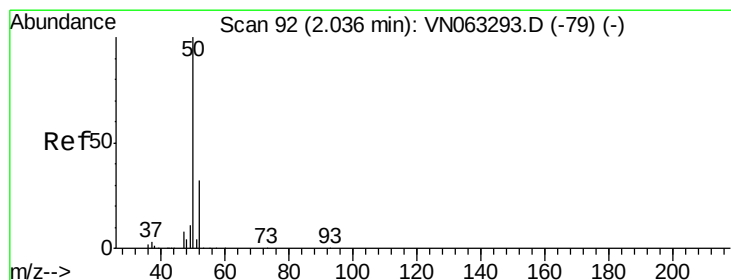
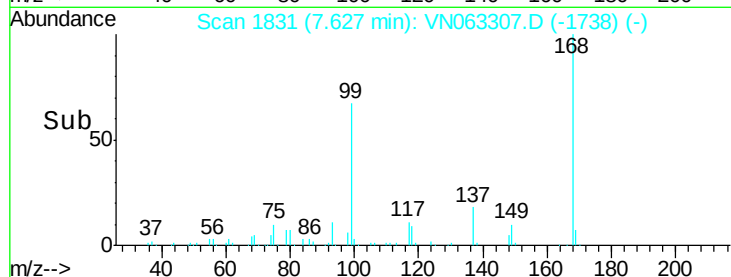
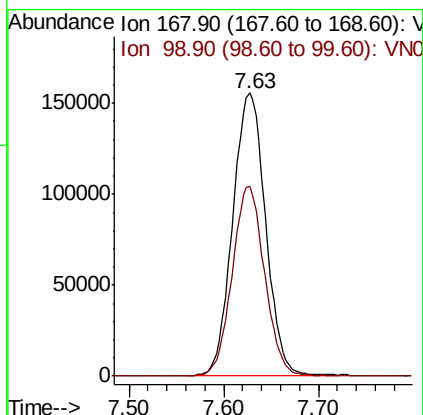
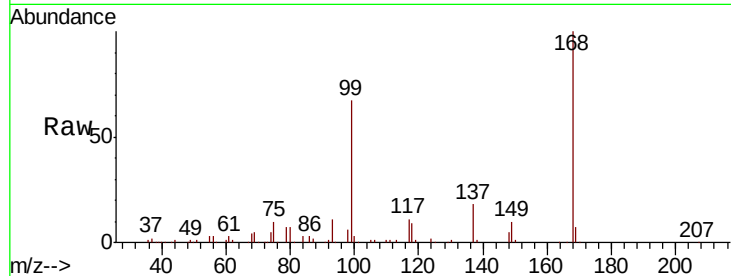




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. -0.00 min
Lab File: VN063307.D
Acq: 11 Sep 2020 11:33

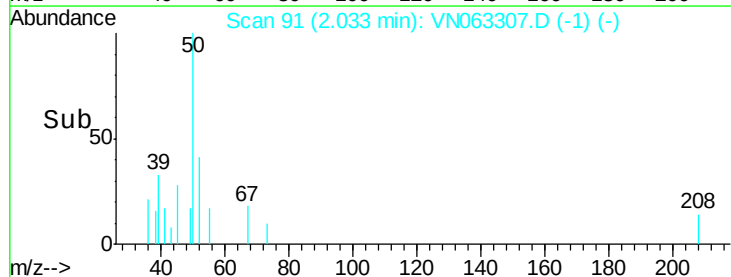
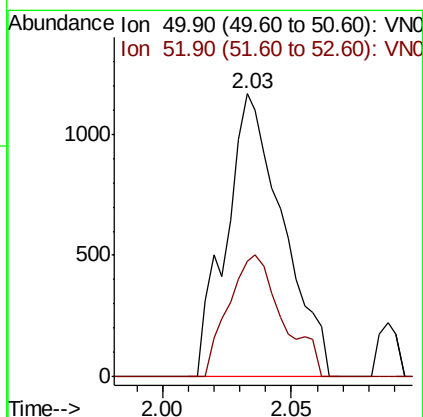
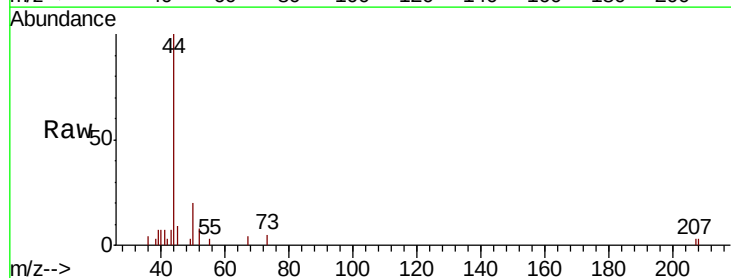
Instrument :
MSVOA_N
ClientSampled :

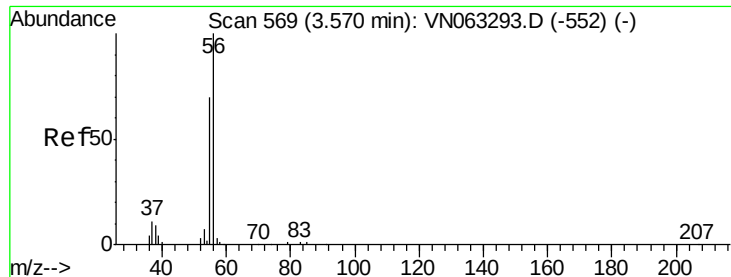
Tot Ion:168 Resp: 376898
Ion Ratio Lower Upper
168 100
99 67.1 51.1 76.7



#3
Chloromethane
Concen: Below Cal
RT: 2.03 min Scan# 91
Delta R.T. -0.00 min
Lab File: VN063307.D
Acq: 11 Sep 2020 11:33

Tgt Ion: 50 Resp: 1783
Ion Ratio Lower Upper
50 100
52 40.9 25.4 38.2#





#13

Acrolein

Concen: 32.855 ug/l

RT: 3.58 min Scan# 573

Delta R.T. 0.01 min

Lab File: VN063307.D

Acq: 11 Sep 2020 11:33

Instrument :

MSVOA_N

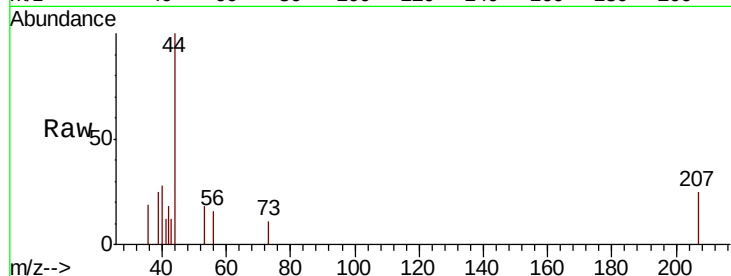
ClientSampleId :

Tot Ion: 56 Resp: 195

Ion Ratio Lower Upper

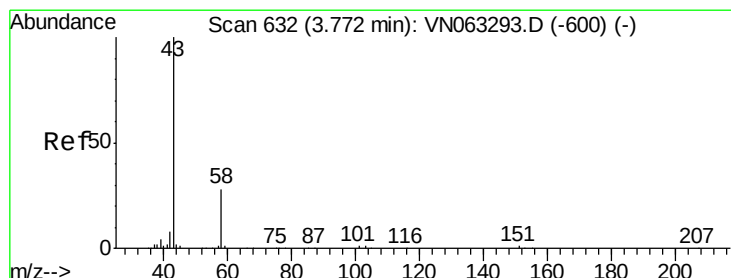
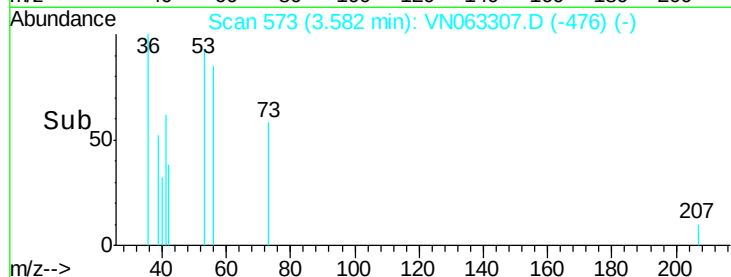
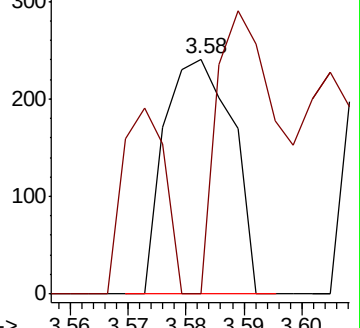
56 100

55 109.7 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: 0.362 ug/l

RT: 3.79 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN063307.D

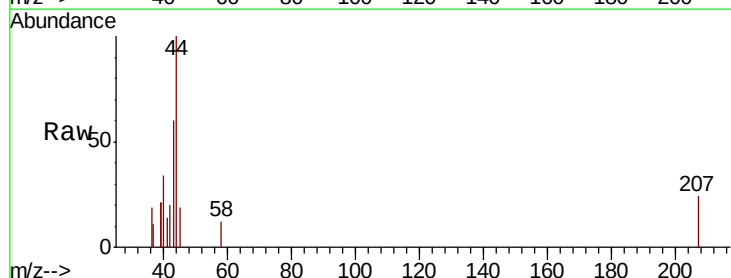
Acq: 11 Sep 2020 11:33

Tgt Ion: 43 Resp: 741

Ion Ratio Lower Upper

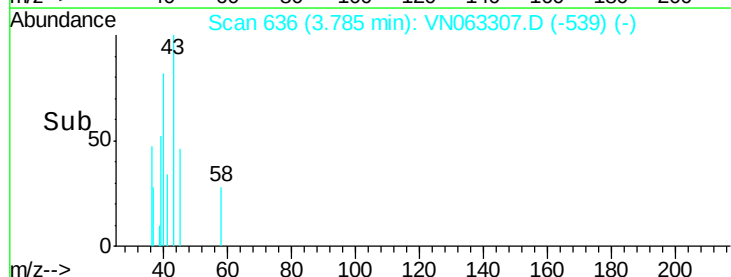
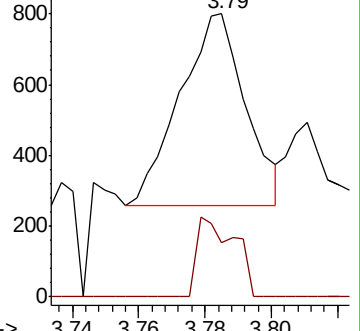
43 100

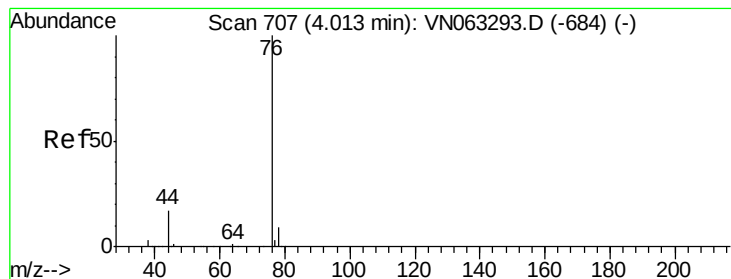
58 28.7 22.6 34.0



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# 709

Delta R.T. 0.01 min

Lab File: VN063307.D

Acq: 11 Sep 2020 11:33

Instrument :

MSVOA_N

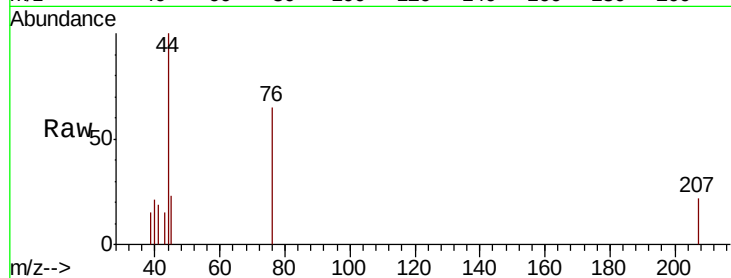
ClientSampleId :

Tot Ion: 76 Resp: 1067

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VNO

Ion 77.90 (77.60 to 78.60): VNO

4.02

800

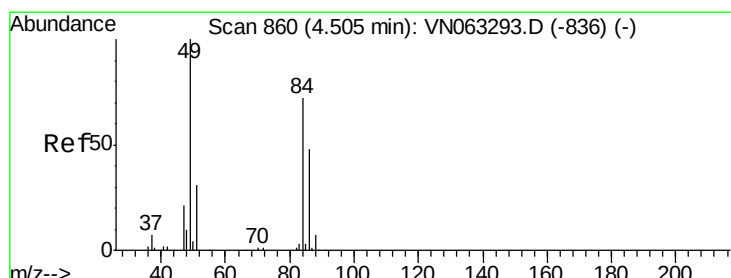
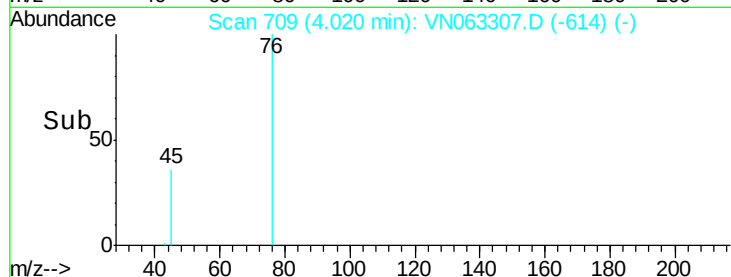
600

400

200

0

Time-->



#20

Methylene Chloride

Concen: Below Cal

RT: 4.50 min Scan# 859

Delta R.T. -0.00 min

Lab File: VN063307.D

Acq: 11 Sep 2020 11:33

Tgt Ion: 84 Resp: 1582

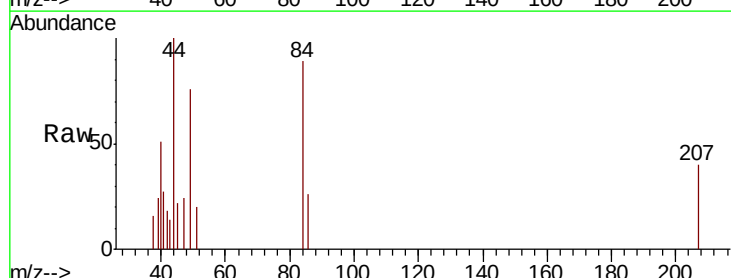
Ion Ratio Lower Upper

84 100

49 62.0 111.1 166.7#

51 23.0 34.3 51.5#

86 28.8 52.9 79.3#



Abundance Ion 83.90 (83.60 to 84.60): VNO

Ion 48.90 (48.60 to 49.60): VNO

Ion 50.90 (50.60 to 51.60): VNO

Ion 85.90 (85.60 to 86.60): VNO

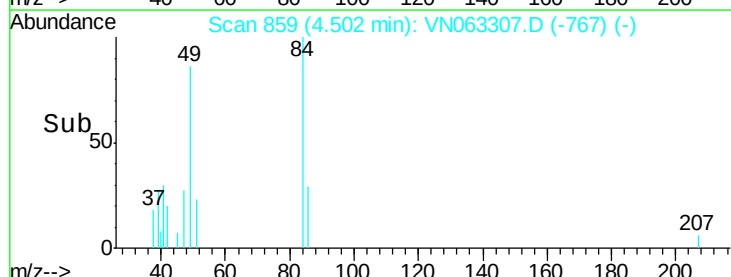
1500

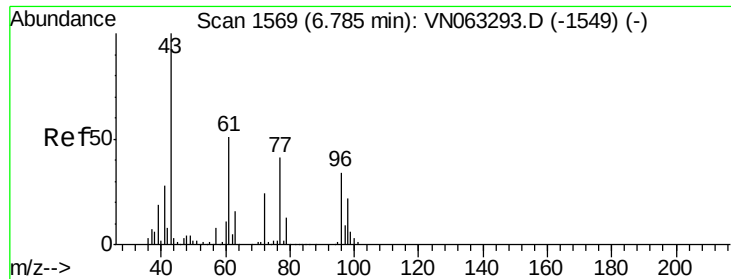
1000

500

0

Time-->





#25

2-Butanone

Concen: 0.328 ug/l

RT: 6.78 min Scan# 1569

Delta R.T. -0.00 min

Lab File: VN063307.D

Acq: 11 Sep 2020 11:33

Instrument :

MSVOA_N

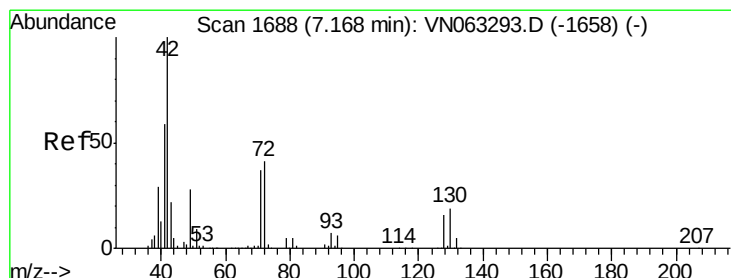
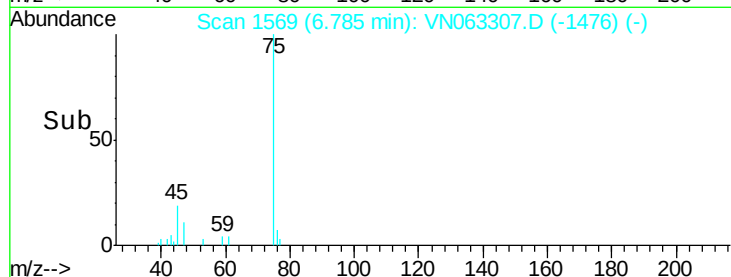
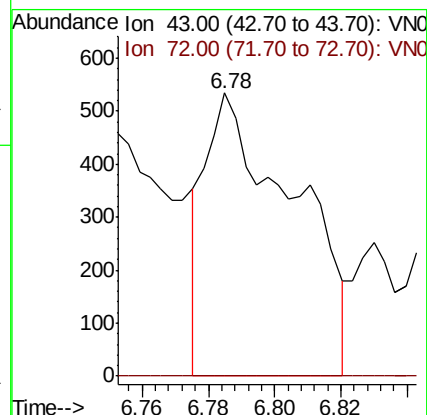
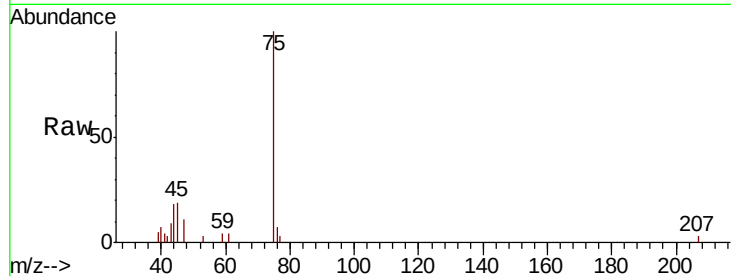
ClientSampled :

Tot Ion: 43 Resp: 991

Ion Ratio Lower Upper

43 100

72 0.0 19.4 29.2#



#29

Tetrahydrofuran

Concen: 0.217 ug/l

RT: 7.19 min Scan# 1694

Delta R.T. 0.02 min

Lab File: VN063307.D

Acq: 11 Sep 2020 11:33

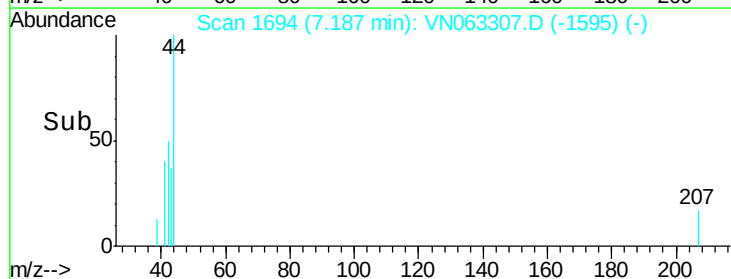
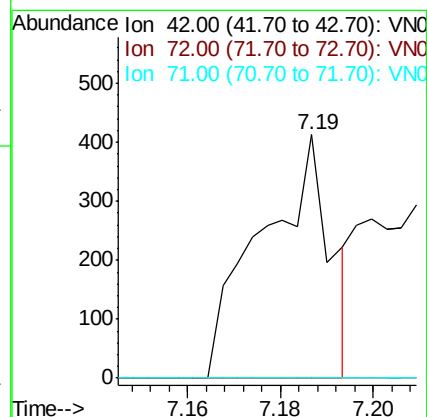
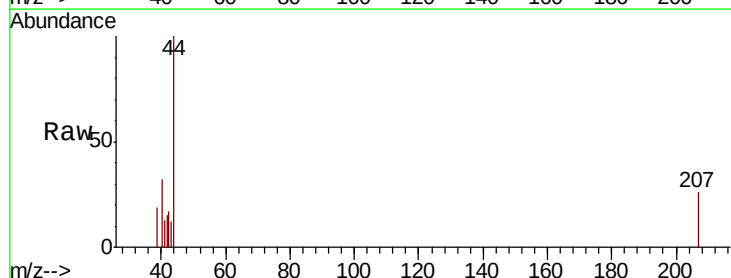
Tgt Ion: 42 Resp: 426

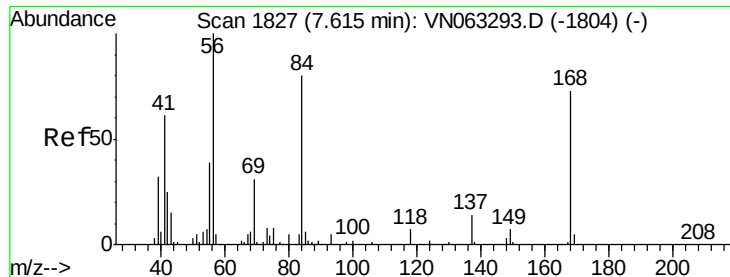
Ion Ratio Lower Upper

42 100

72 0.0 31.4 47.2#

71 0.0 30.0 45.0#

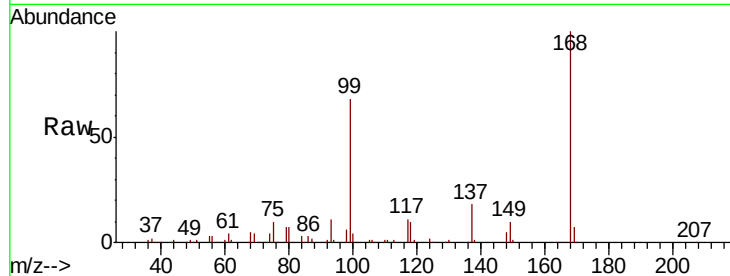




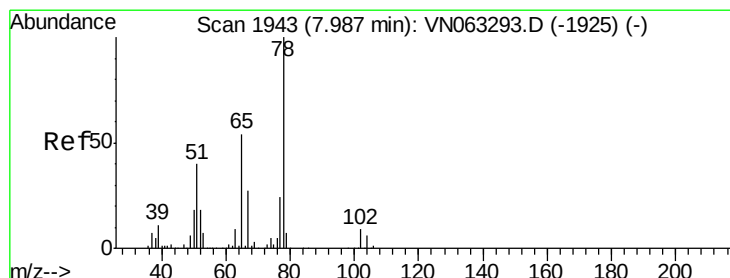
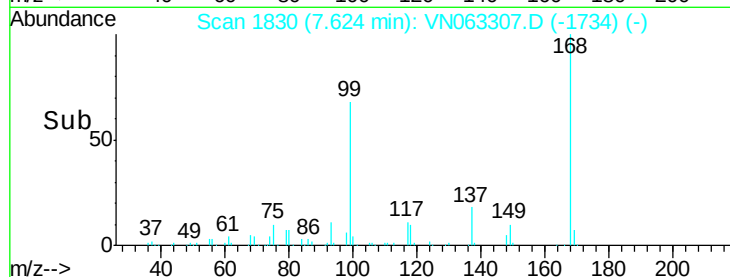
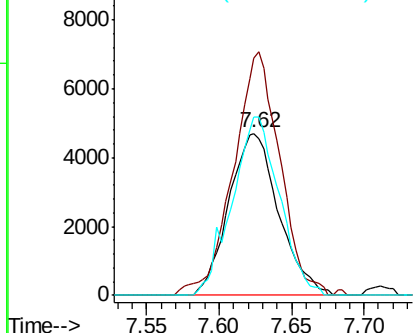
#31
Cyclohexane
Concen: 1.354 ug/l
RT: 7.62 min Scan# 1830
Delta R.T. 0.01 min
Lab File: VN063307.D
Acq: 11 Sep 2020 11:33

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 56 Resp: 11242
Ion Ratio Lower Upper
56 100
69 142.8 25.1 37.7#
84 110.1 64.2 96.2#

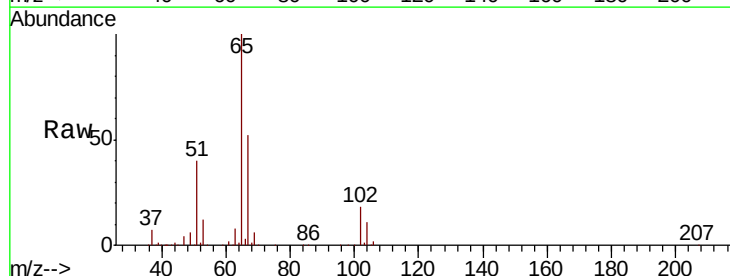


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

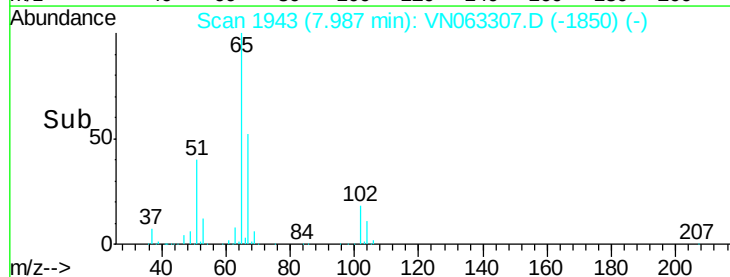
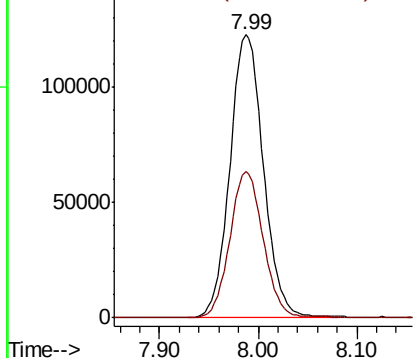


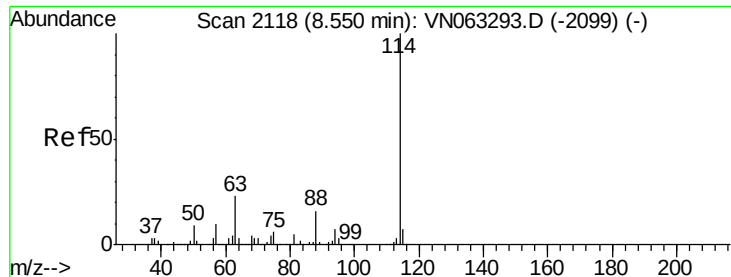
#33
1,2-Dichloroethane-d4
Concen: 49.108 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. -0.00 min
Lab File: VN063307.D
Acq: 11 Sep 2020 11:33

Tgt Ion: 65 Resp: 290794
Ion Ratio Lower Upper
65 100
67 51.2 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: VN063307.D

Acq: 11 Sep 2020 11:33

Instrument :

MSVOA_N

ClientSampleId :

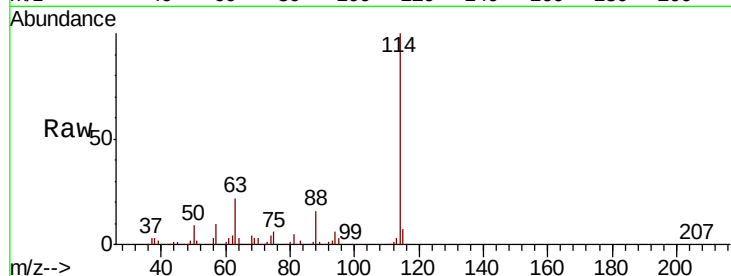
Tot Ion:114 Resp: 709001

Ion Ratio Lower Upper

114 100

63 22.2 0.0 46.0

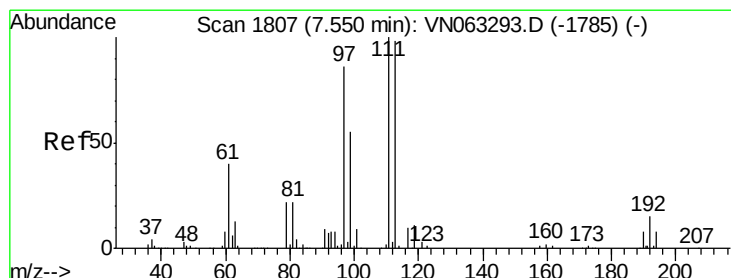
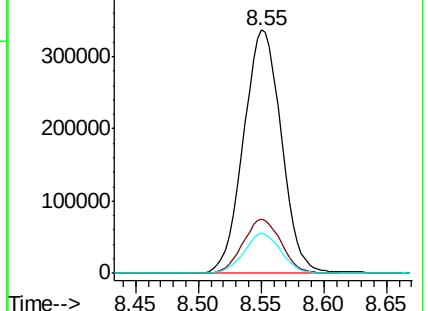
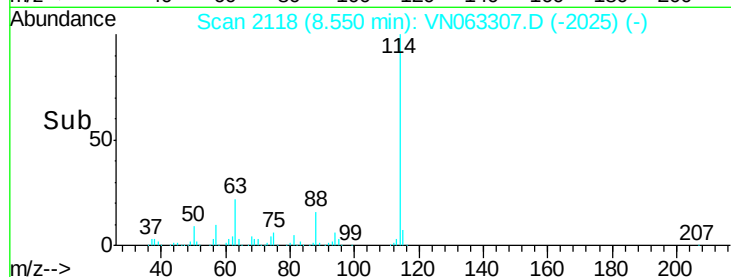
88 16.3 0.0 32.8



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: 49.272 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. -0.00 min

Lab File: VN063307.D

Acq: 11 Sep 2020 11:33

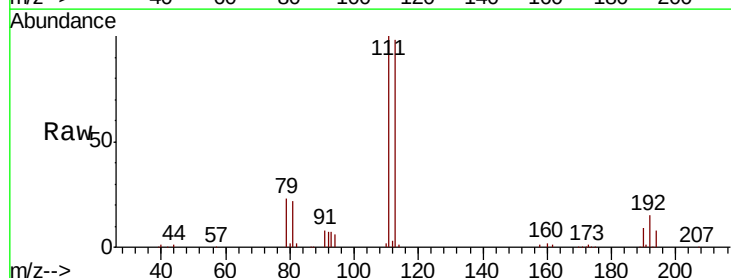
Tgt Ion:113 Resp: 225368

Ion Ratio Lower Upper

113 100

111 102.9 82.2 123.2

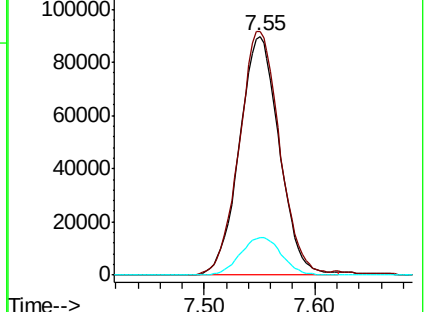
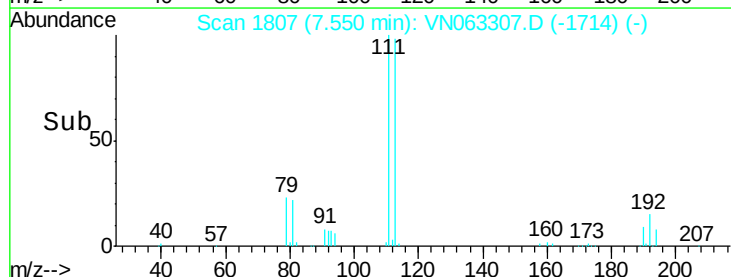
192 16.2 12.9 19.3

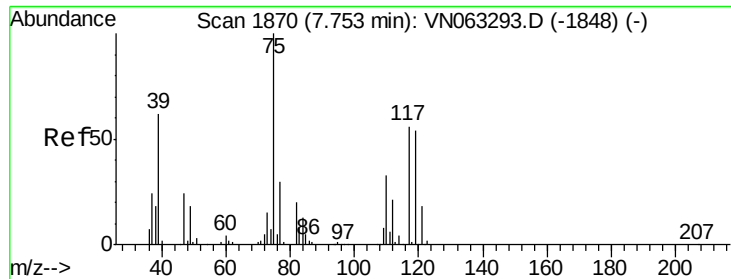


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

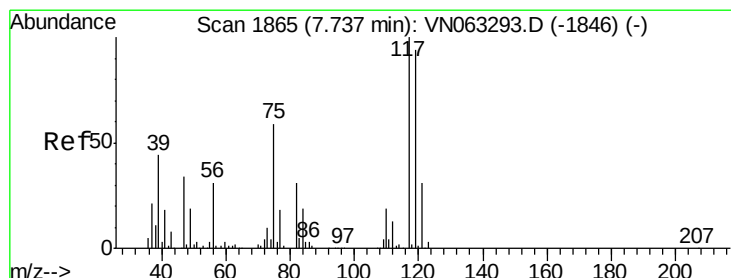
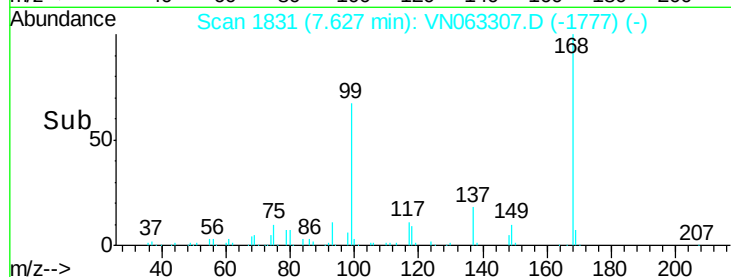
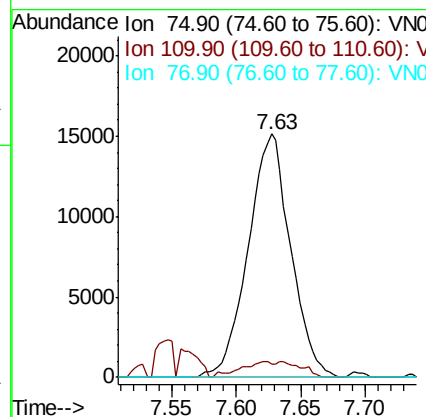
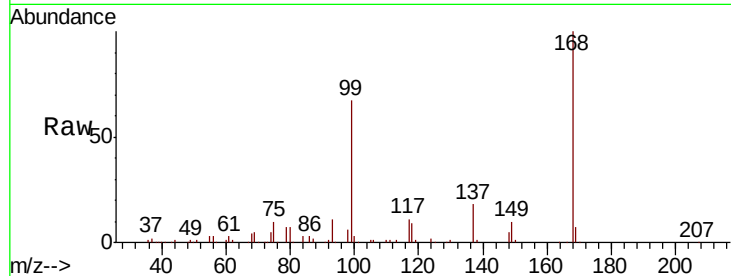




#36
 1,1-Dichloropropene
 Concen: 4.770 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN063307.D
 Acq: 11 Sep 2020 11:33

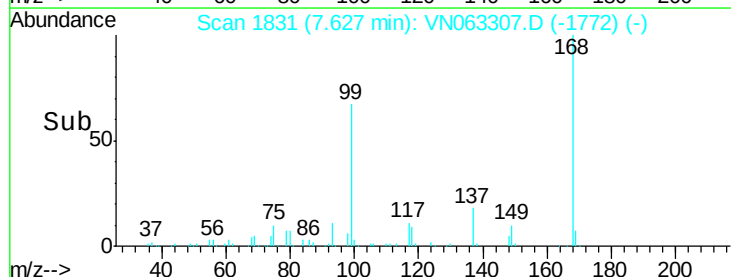
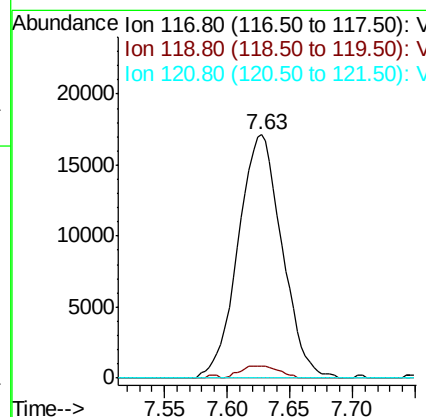
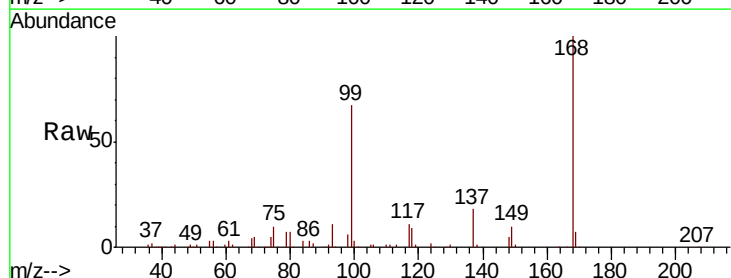
Instrument :
 MSVOA_N
 ClientSampled :

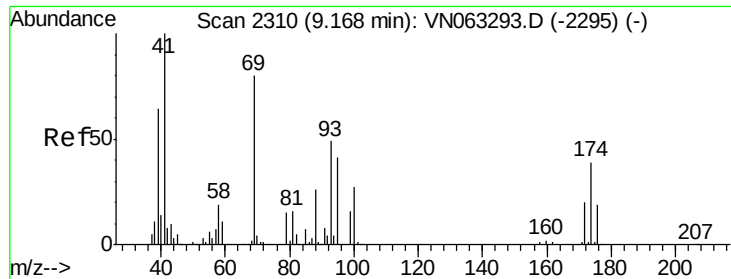
Tot Ion	75	Resp	34760
Ion Ratio	Lower	Upper	
75	100		
110	3.2	16.4	49.4#
77	0.0	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 5.808 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.11 min
 Lab File: VN063307.D
 Acq: 11 Sep 2020 11:33

Tgt Ion	117	Resp	41658
Ion Ratio <td>Lower</td> <td>Upper</td> <td></td>	Lower	Upper	
117	100		
119	5.2	75.3	112.9#
121	0.0	24.6	37.0#

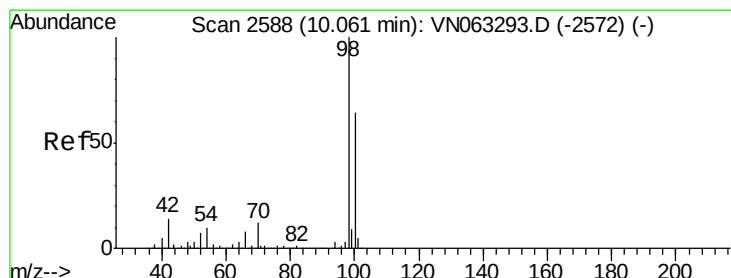
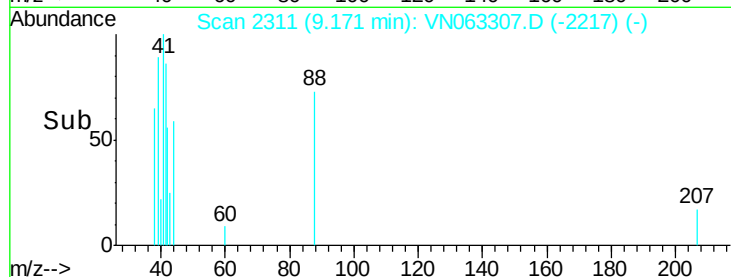
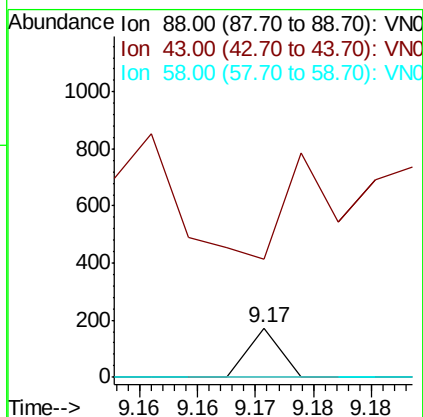
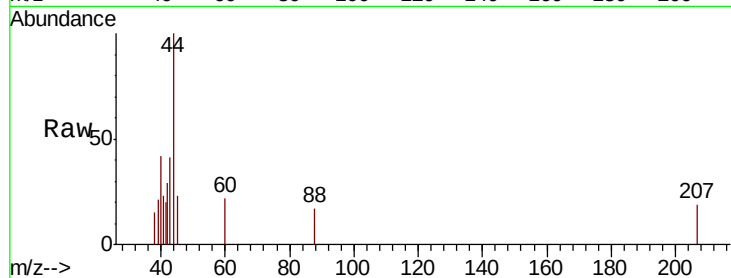




#49
1,4-Dioxane
Concen: 0.368 ug/l
RT: 9.17 min Scan# 2311
Delta R.T. 0.00 min
Lab File: VN063307.D
Acq: 11 Sep 2020 11:33

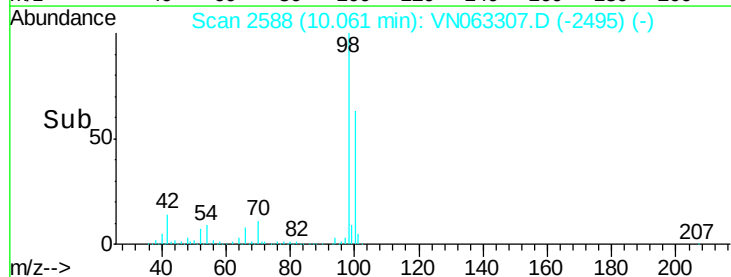
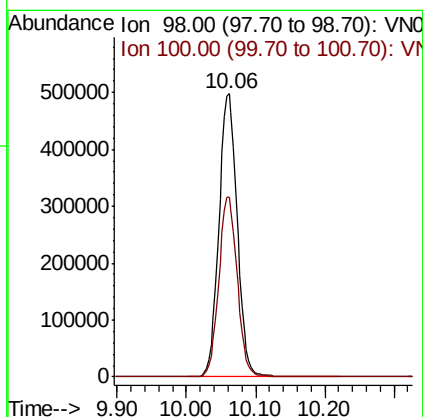
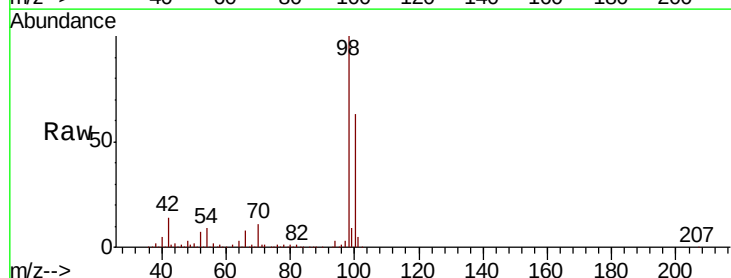
Instrument :
MSVOA_N
ClientSampleId :

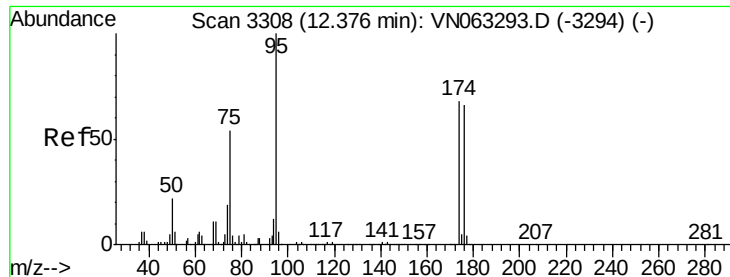
Tot Ion: 88 Resp: 33
Ion Ratio Lower Upper
88 100
43 1027.3 30.5 45.7#
58 0.0 58.9 88.3#



#50
Toluene-d8
Concen: 52.076 ug/l
RT: 10.06 min Scan# 2588
Delta R.T. -0.00 min
Lab File: VN063307.D
Acq: 11 Sep 2020 11:33

Tgt Ion: 98 Resp: 912816
Ion Ratio Lower Upper
98 100
100 63.7 50.7 76.1





#62

4-Bromofluorobenzene

Concen: 51.903 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063307.D

Acq: 11 Sep 2020 11:33

Instrument :

MSVOA_N

ClientSampled :

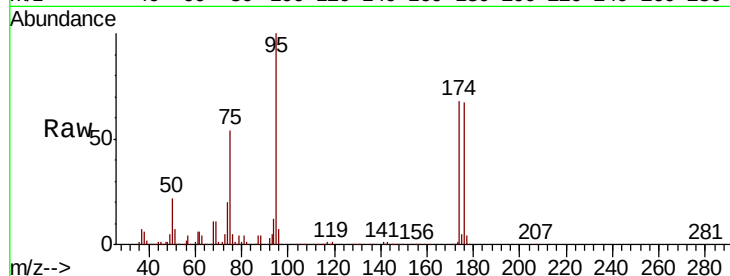
Tot Ion: 95 Resp: 336031

Ion Ratio Lower Upper

95 100

174 69.6 0.0 136.6

176 67.0 0.0 132.8



Abundance Ion 94.90 (94.60 to 95.60): VN063307.D (-3215) (-)

Ion 173.80 (173.50 to 174.50): VN063307.D (-3215) (-)

Ion 175.80 (175.50 to 176.50): VN063307.D (-3215) (-)

12.38

200000

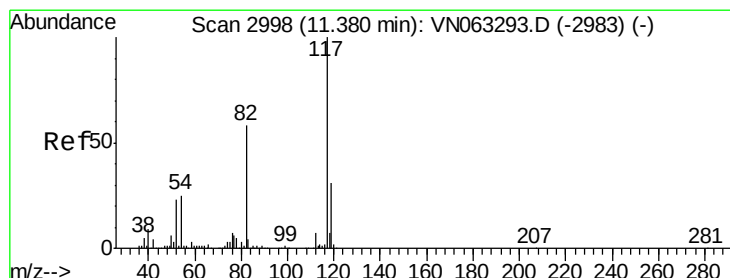
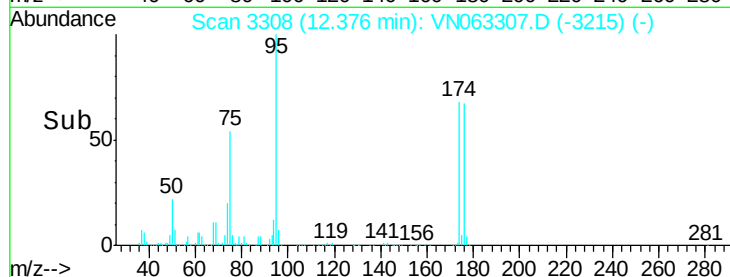
150000

100000

50000

0

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. -0.00 min

Lab File: VN063307.D

Acq: 11 Sep 2020 11:33

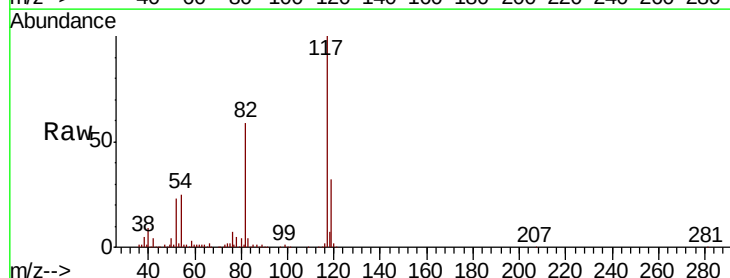
Tgt Ion: 117 Resp: 683157

Ion Ratio Lower Upper

117 100

82 59.5 46.4 69.6

119 32.1 24.8 37.2



Abundance Ion 116.90 (116.60 to 117.60): VN063307.D (-2905) (-)

Ion 82.00 (81.70 to 82.70): VN063307.D (-2905) (-)

Ion 118.90 (118.60 to 119.60): VN063307.D (-2905) (-)

11.38

500000

400000

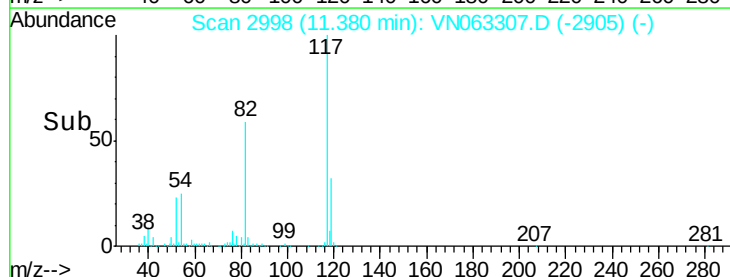
300000

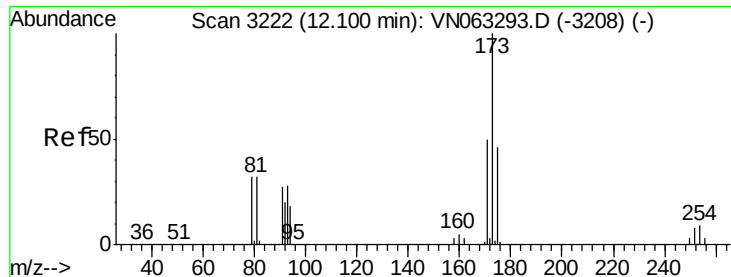
200000

100000

0

Time-->





#71

Bromoform

Concen: 0.215 ug/l

RT: 12.38 min Scan# 3309

Delta R.T. 0.28 min

Lab File: VN063307.D

Acq: 11 Sep 2020 11:33

Instrument :

MSVOA_N

ClientSampled :

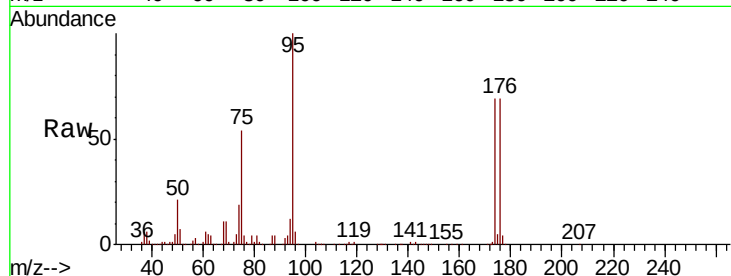
Tot Ion:173 Resp: 796

Ion Ratio Lower Upper

173 100

175 1716.1 23.8 71.5#

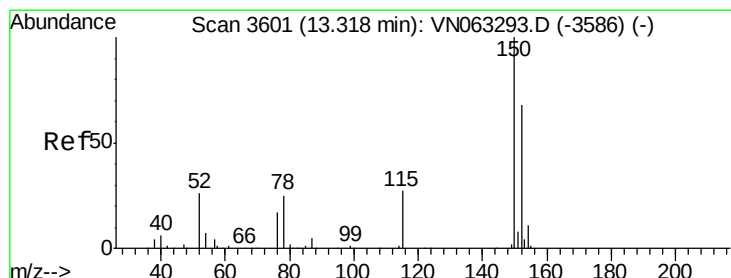
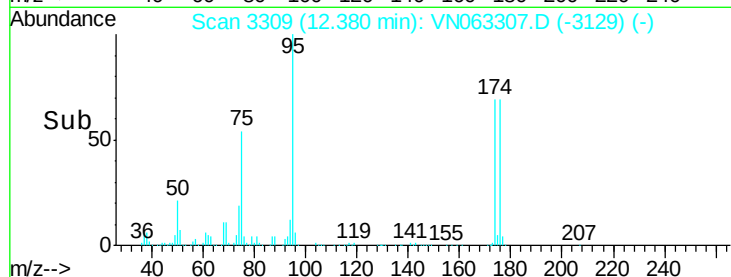
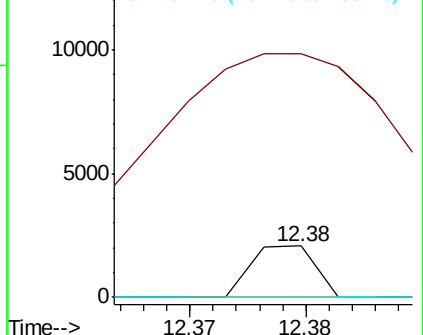
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): 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: VN063307.D

Acq: 11 Sep 2020 11:33

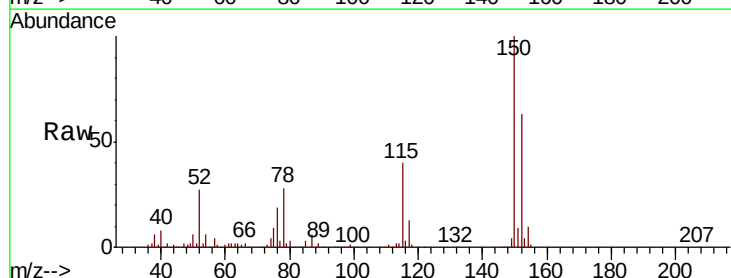
Tgt Ion:152 Resp: 277978

Ion Ratio Lower Upper

152 100

115 62.7 31.5 94.5

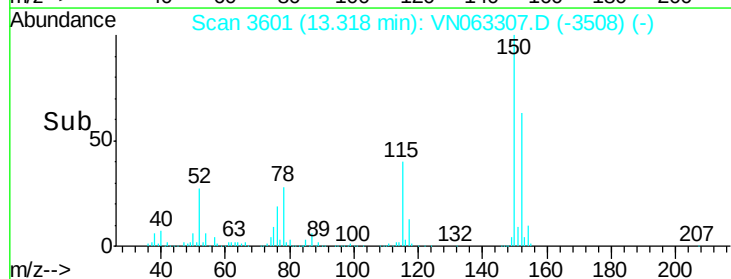
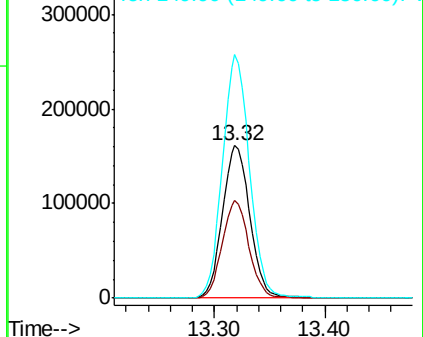
150 157.6 0.0 344.0

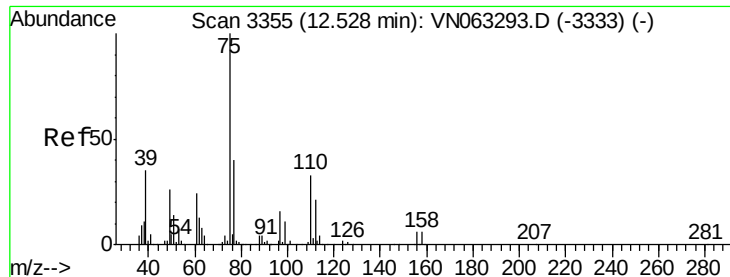


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 29.692 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063307.D

Acq: 11 Sep 2020 11:33

Instrument :

MSVOA_N

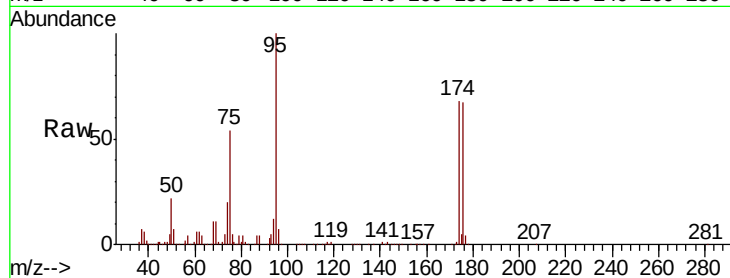
ClientSampled :

Tot Ion: 75 Resp: 182087

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

100000

80000

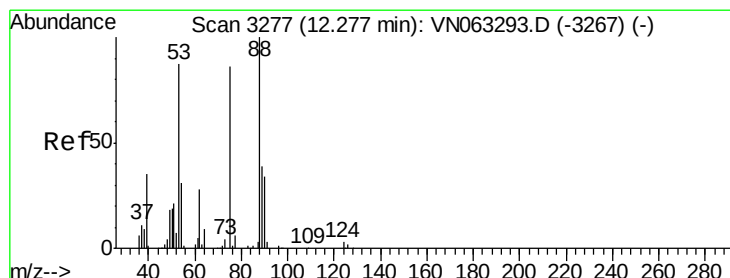
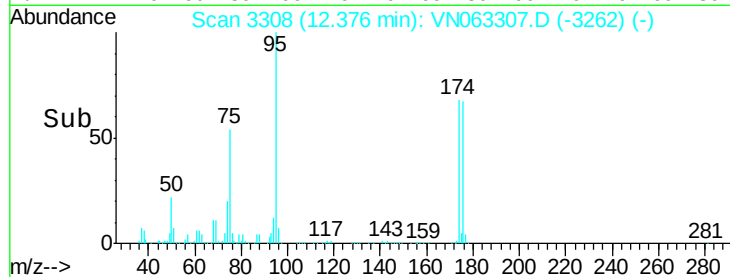
60000

40000

20000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 79.776 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063307.D

Acq: 11 Sep 2020 11:33

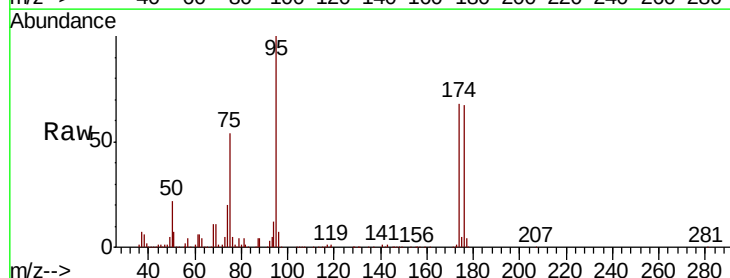
Tgt Ion: 75 Resp: 182087

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

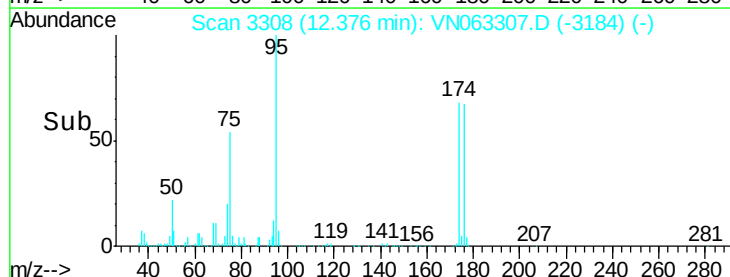
12.38

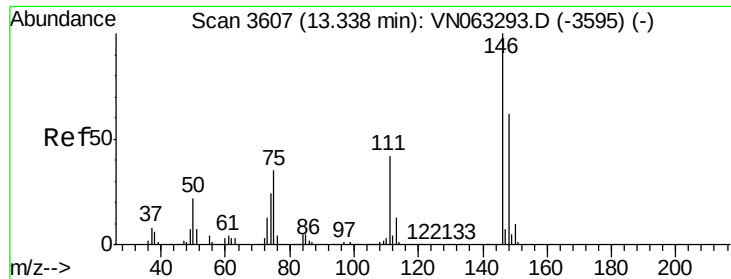
100000

50000

0

Time-->

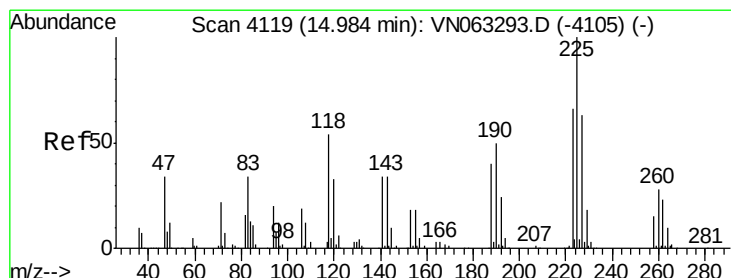
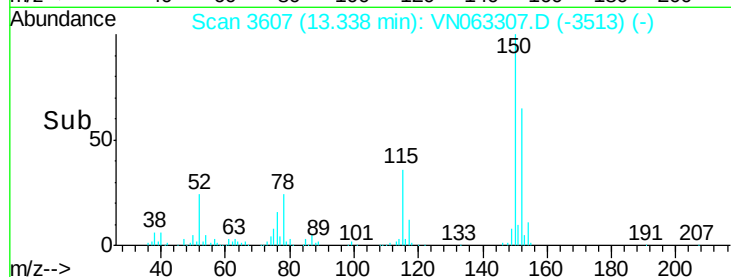
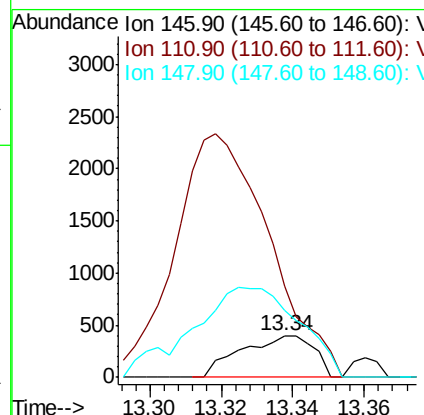
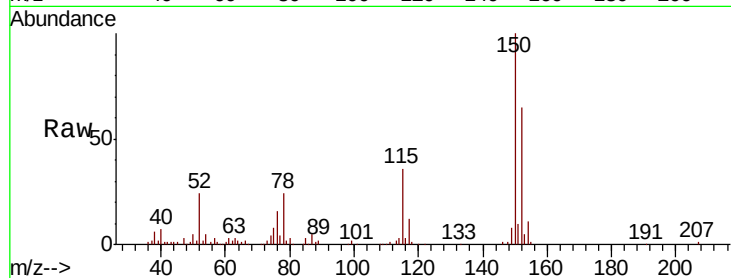




#88
 1,4-Dichlorobenzene
 Concen: Below Cal
 RT: 13.34 min Scan# 3607
 Delta R.T. 0.00 min
 Lab File: VN063307.D
 Acq: 11 Sep 2020 11:33

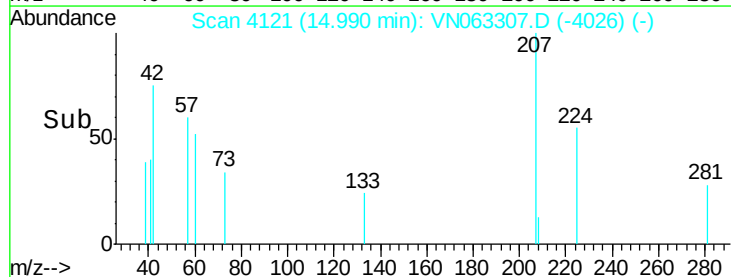
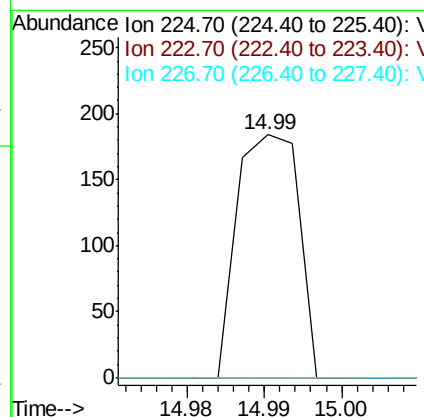
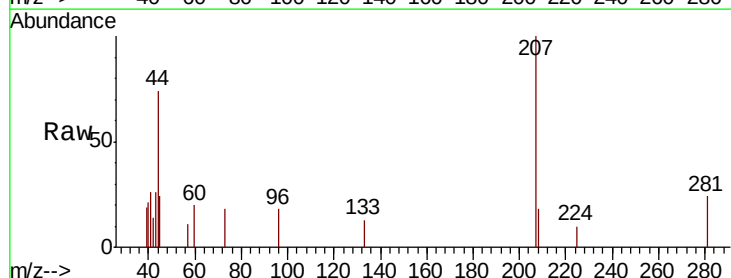
Instrument :
 MSVOA_N
 ClientSampled :

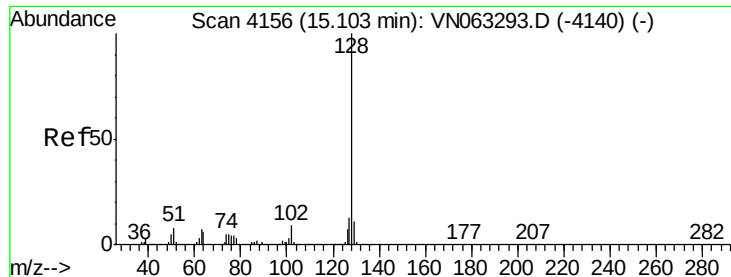
Tot Ion:146 Resp: 563
 Ion Ratio Lower Upper
 146 100
 111 761.5 21.3 64.0#
 148 319.2 31.5 94.5#



#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 14.99 min Scan# 4121
 Delta R.T. 0.01 min
 Lab File: VN063307.D
 Acq: 11 Sep 2020 11:33

Tgt Ion:225 Resp: 102
 Ion Ratio Lower Upper
 225 100
 223 0.0 31.3 93.9#
 227 0.0 31.2 93.6#





#95

Naphthalene

Concen: Below Cal

RT: 15.11 min Scan# 4157

Delta R.T. 0.00 min

Lab File: VN063307.D

Acq: 11 Sep 2020 11:33

Instrument :

MSVOA_N

ClientSampleId :

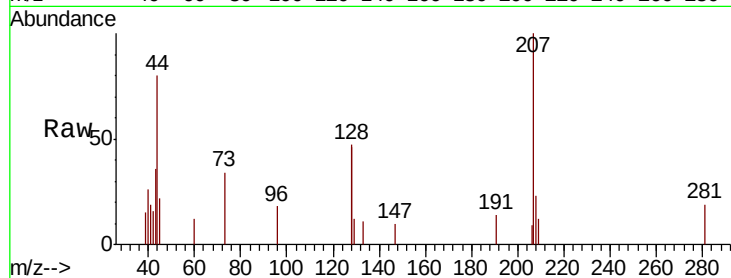
Tot Ion:128 Resp: 2827

Ion Ratio Lower Upper

128 100

127 3.9 10.3 15.5#

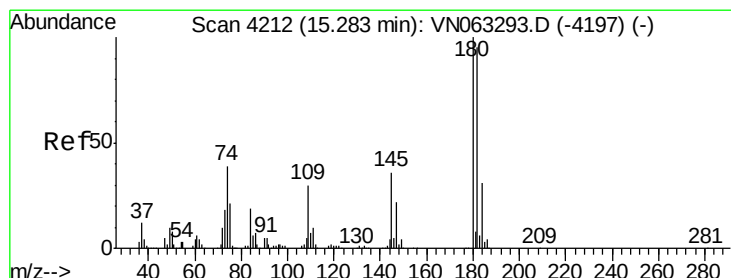
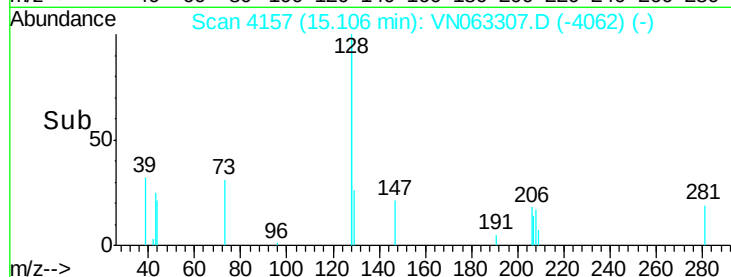
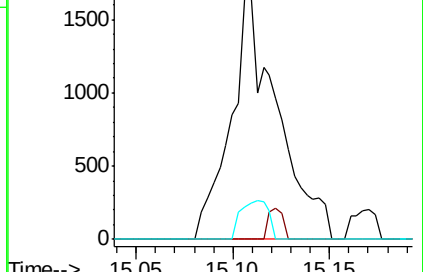
129 9.3 8.6 12.8



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# 4211

Delta R.T. -0.00 min

Lab File: VN063307.D

Acq: 11 Sep 2020 11:33

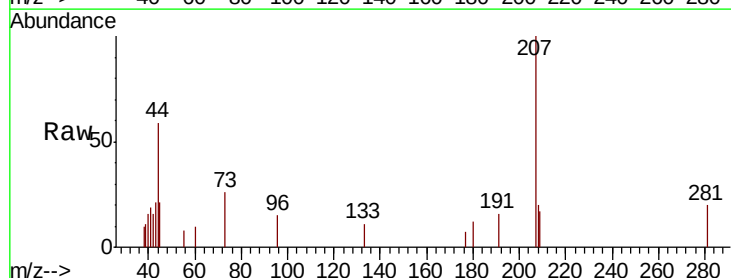
Tgt Ion:180 Resp: 215

Ion Ratio Lower Upper

180 100

182 0.0 47.4 142.3#

145 0.0 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

