

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091120\
 Data File : VN063311.D
 Acq On : 11 Sep 2020 13:54
 Operator : JC/MD
 Sample : L3988-07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 12 00:40:13 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	378953	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	713510	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	684412	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	278007	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	288458	48.45	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	96.90%	
35) Dibromofluoromethane	7.55	113	225835	49.06	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	98.12%	
50) Toluene-d8	10.06	98	896883	50.84	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	101.68%	
62) 4-Bromofluorobenzene	12.38	95	336513	51.65	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	103.30%	

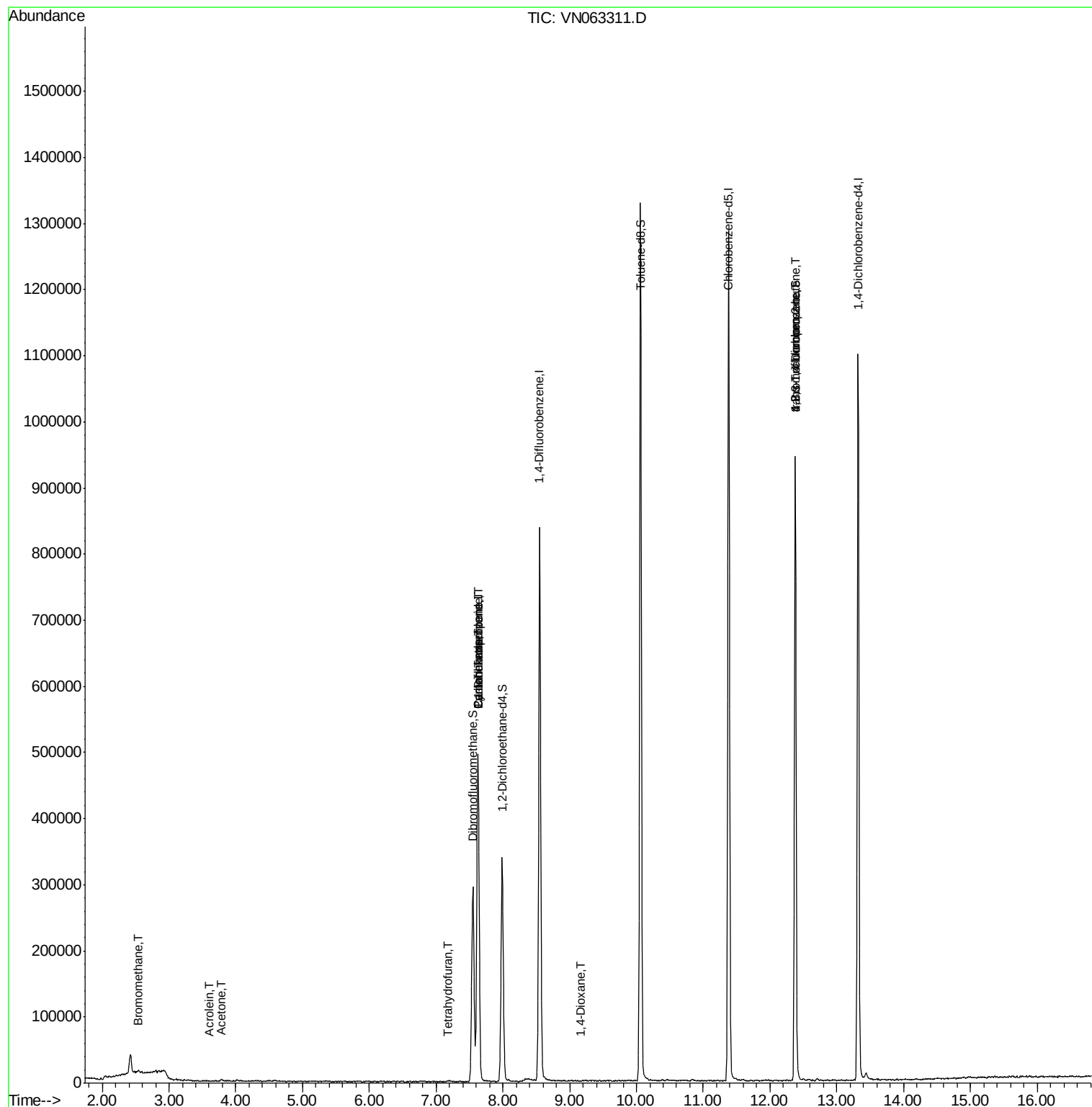
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	1827	Below Cal		99
5) Bromomethane	2.54	94	1334	0.371 ug/l #		52
13) Acrolein	3.59	56	133	32.727 ug/l #		40
16) Acetone	3.77	43	806	0.392 ug/l		99
17) Carbon Disulfide	4.00	76	286	Below Cal #		75
20) Methylene Chloride	4.51	84	130	Below Cal #		24
29) Tetrahydrofuran	7.18	42	644	0.326 ug/l #		44
31) Cyclohexane	7.63	56	10746	1.287 ug/l #		37
36) 1,1-Dichloropropene	7.63	75	32330	4.408 ug/l #		51
38) Carbon Tetrachloride	7.63	117	41804	5.791 ug/l #		17
49) 1,4-Dioxane	9.17	88	72	0.798 ug/l #		1
76) 1,2,3-Trichloropropane	12.38	75	183695	29.951 ug/l #		100
81) trans-1,4-Dichloro-2-buten	12.38	75	183695	80.472 ug/l #		9
88) 1,4-Dichlorobenzene	13.34	146	331	Below Cal #		25
94) Hexachlorobutadiene	14.99	225	30	Below Cal #		19
95) Naphthalene	15.11	128	575	Below Cal #		69
96) 1,2,3-Trichlorobenzene	15.31	180	29	Below Cal #		1

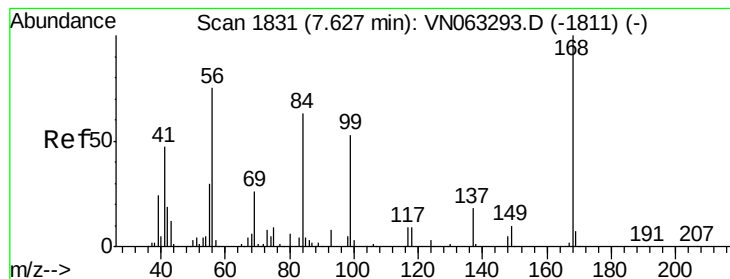
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN063311.D

Acq: 11 Sep 2020 13:54

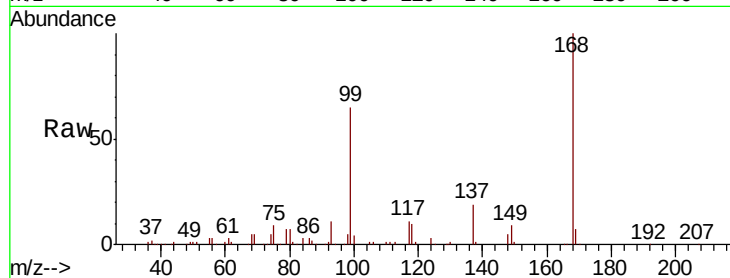
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 378953

Ion Ratio Lower Upper

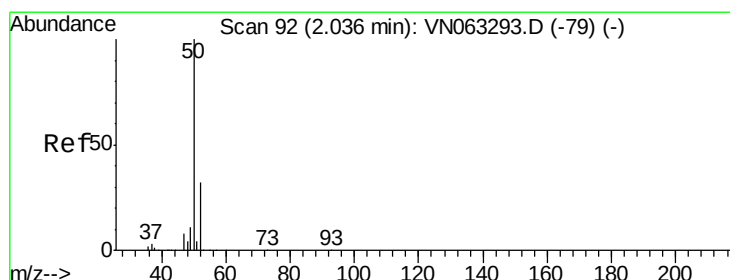
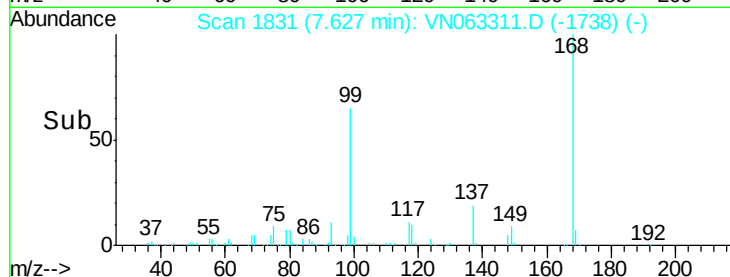
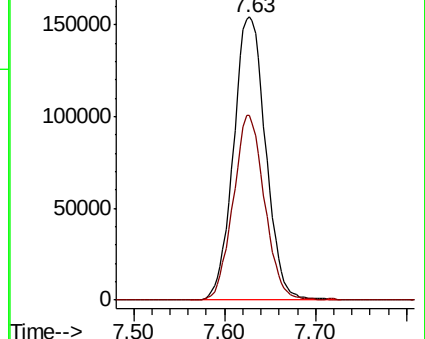
168 100

99 65.4 51.1 76.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 92

Delta R.T. 0.00 min

Lab File: VN063311.D

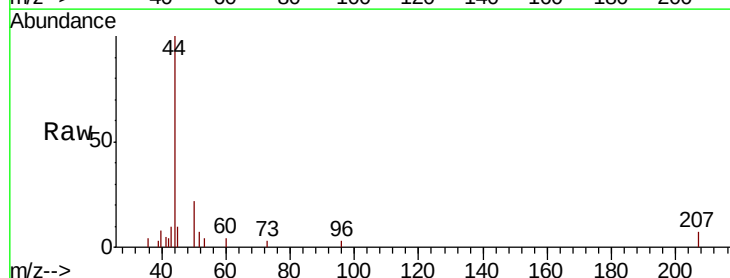
Acq: 11 Sep 2020 13:54

Tgt Ion: 50 Resp: 1827

Ion Ratio Lower Upper

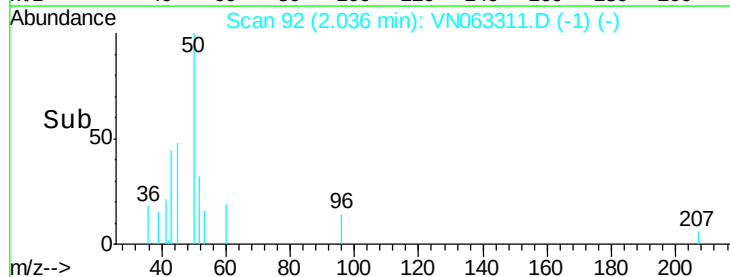
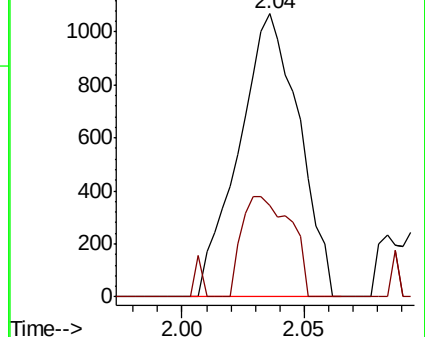
50 100

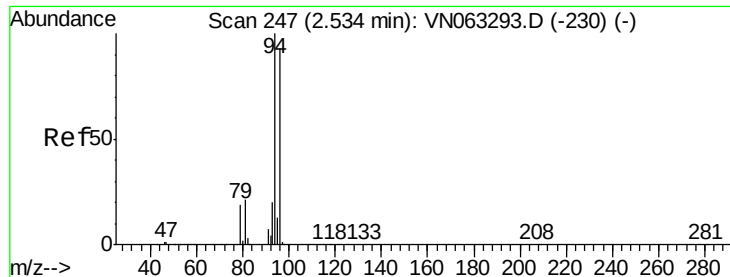
52 32.2 25.4 38.2



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO





#5

Bromomethane

Concen: 0.371 ug/l

RT: 2.54 min Scan# 249

Delta R.T. 0.01 min

Lab File: VN063311.D

Acq: 11 Sep 2020 13:54

Instrument :

MSVOA_N

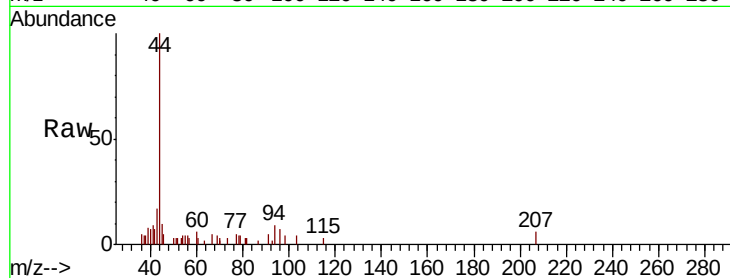
ClientSampled :

Tot Ion: 94 Resp: 1334

Ion Ratio Lower Upper

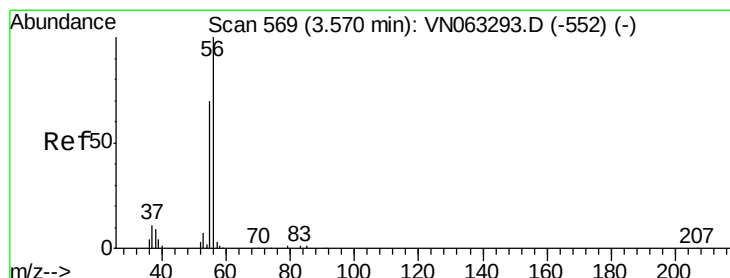
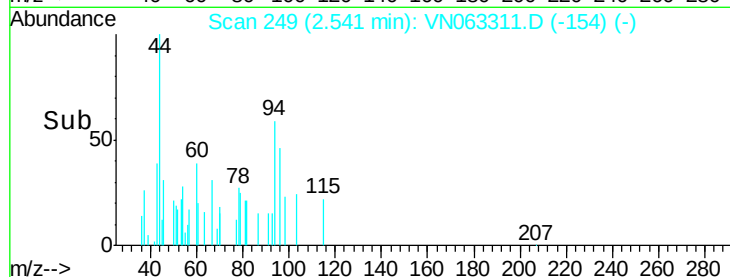
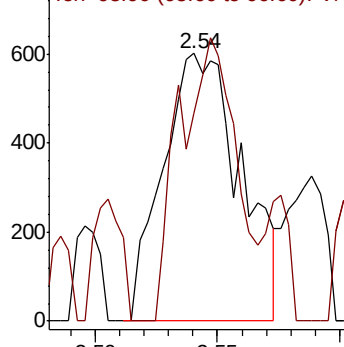
94 100

96 46.5 74.3 111.5#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#13

Acrolein

Concen: 32.727 ug/l

RT: 3.59 min Scan# 574

Delta R.T. 0.02 min

Lab File: VN063311.D

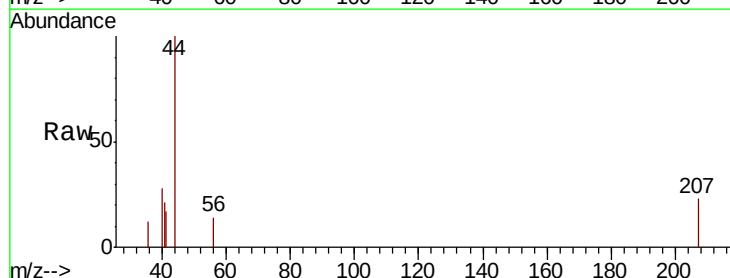
Acq: 11 Sep 2020 13:54

Tgt Ion: 56 Resp: 133

Ion Ratio Lower Upper

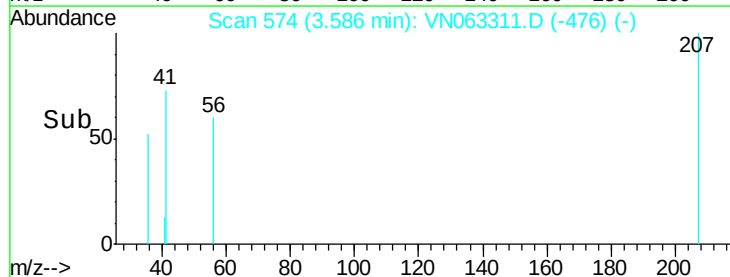
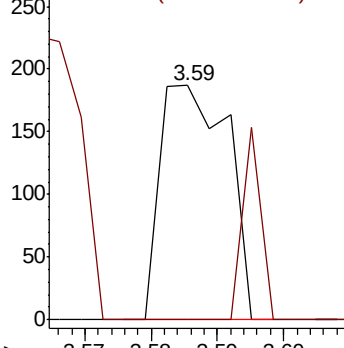
56 100

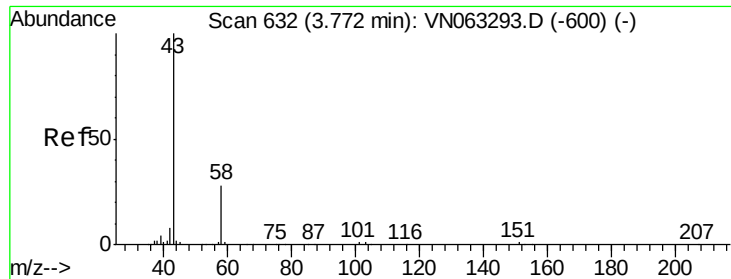
55 21.8 57.2 85.8#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0





#16

Acetone

Concen: 0.392 ug/l

RT: 3.77 min Scan# 631

Delta R.T. -0.00 min

Lab File: VN063311.D

Acq: 11 Sep 2020 13:54

Instrument :

MSVOA_N

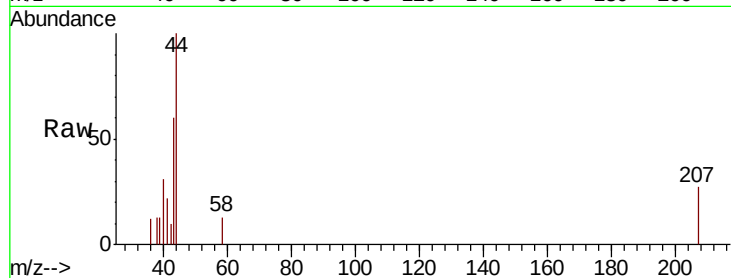
ClientSampleId :

Tot Ion: 43 Resp: 806

Ion Ratio Lower Upper

43 100

58 27.6 22.6 34.0

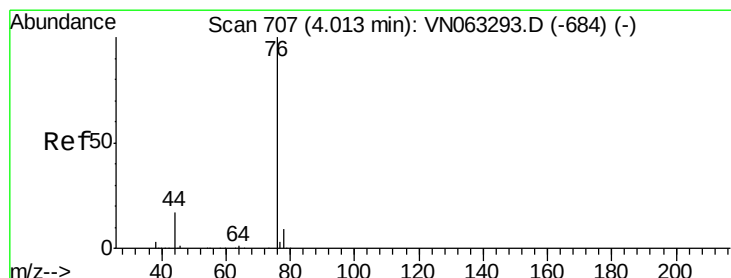
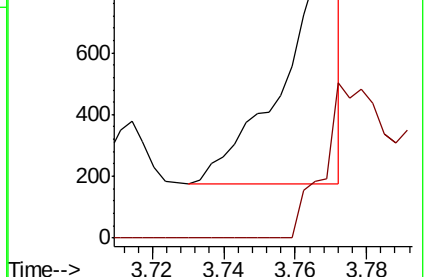
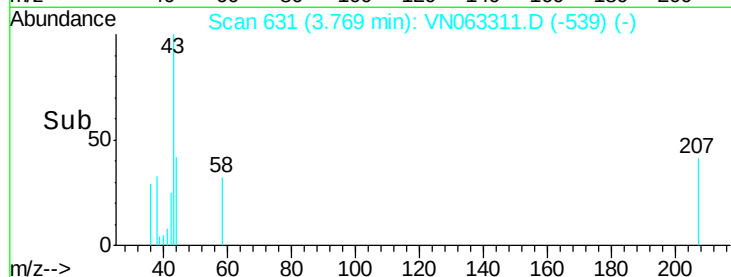


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.77

Time-->



#17

Carbon Disulfide

Concen: Below Cal

RT: 4.00 min Scan# 702

Delta R.T. -0.02 min

Lab File: VN063311.D

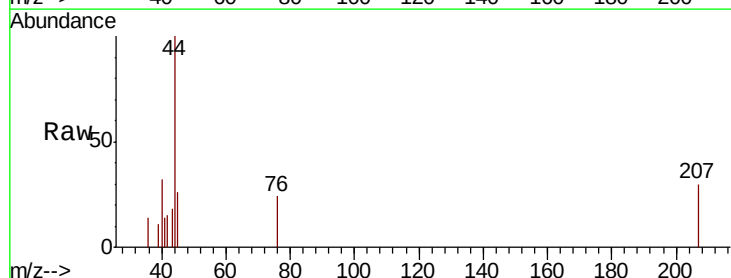
Acq: 11 Sep 2020 13:54

Tgt Ion: 76 Resp: 286

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#

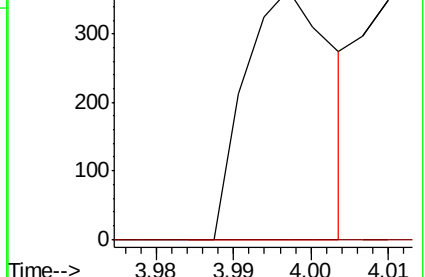
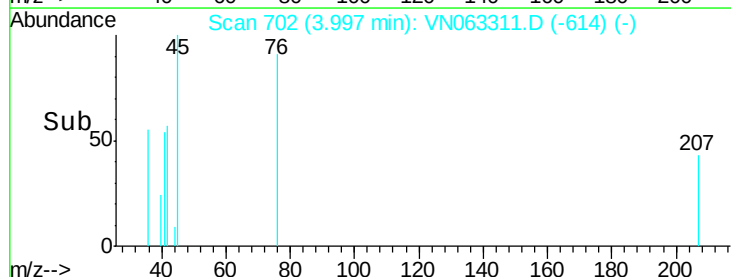


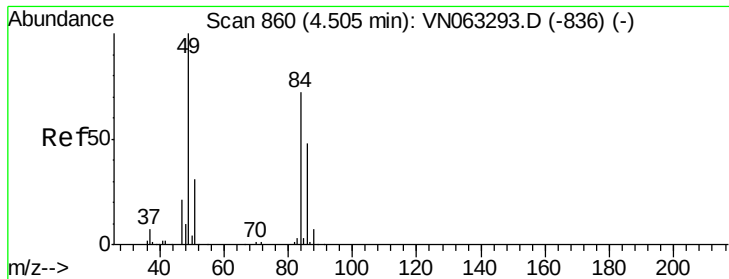
Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.00

Time-->





#20

Methylene Chloride

Concen: Below Cal

RT: 4.51 min Scan# 862

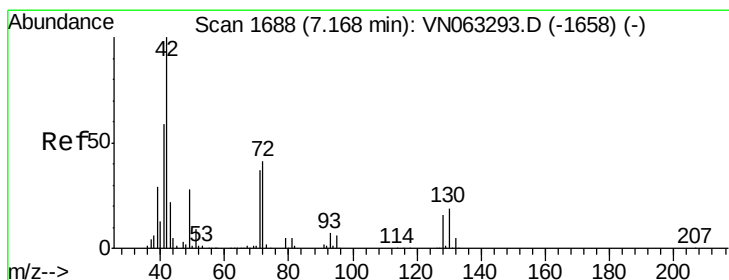
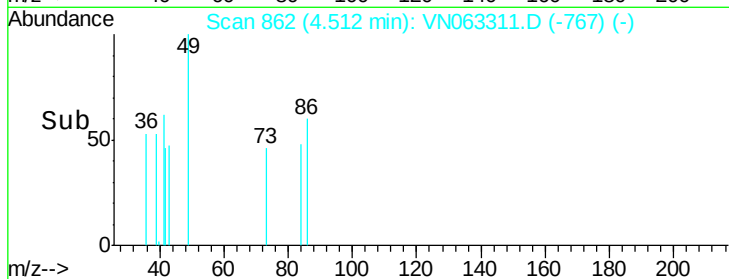
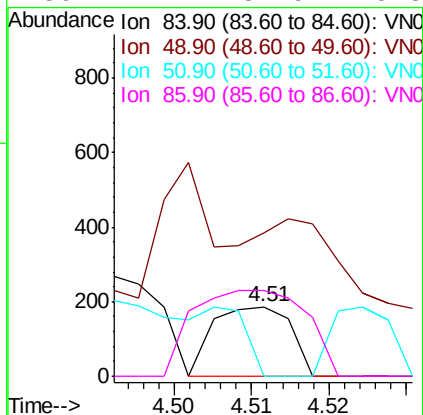
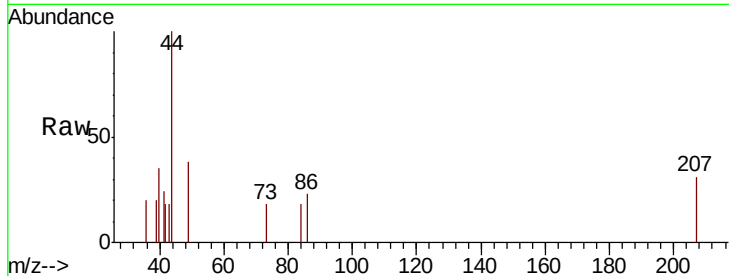
Delta R.T. 0.01 min

Lab File: VN063311.D

Acq: 11 Sep 2020 13:54

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:	84	Resp:	130
Ion	Ratio	Lower	Upper
84	100		
49	41.4	111.1	166.7#
51	0.0	34.3	51.5#
86	124.2	52.9	79.3#



#29

Tetrahydrofuran

Concen: 0.326 ug/l

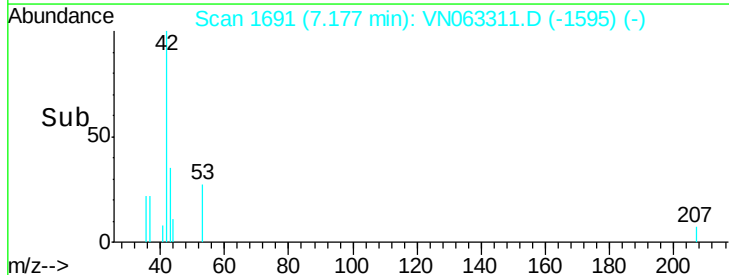
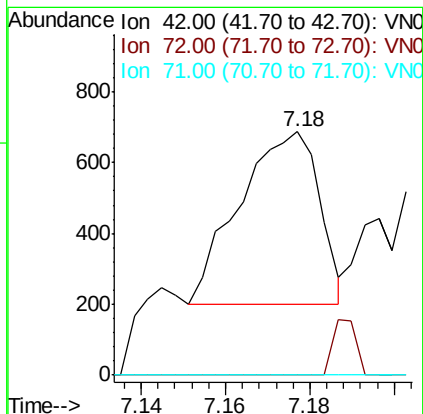
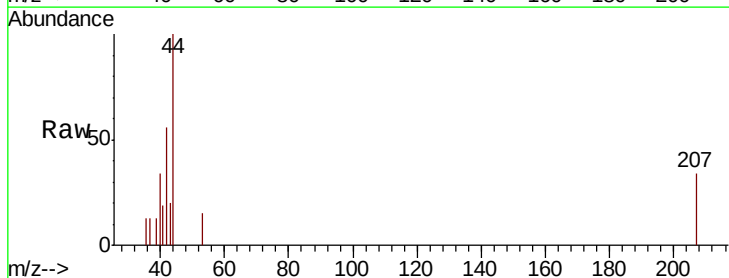
RT: 7.18 min Scan# 1691

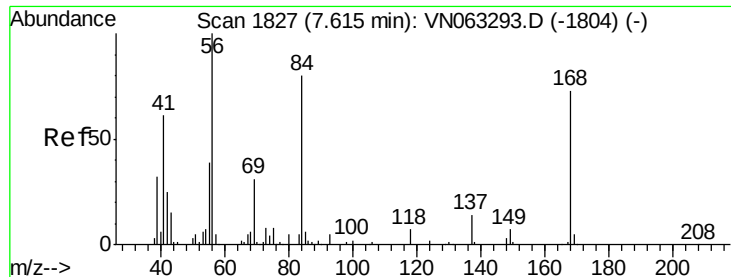
Delta R.T. 0.01 min

Lab File: VN063311.D

Acq: 11 Sep 2020 13:54

Tgt Ion:	42	Resp:	644
Ion	Ratio	Lower	Upper
42	100		
72	9.3	31.4	47.2#
71	0.0	30.0	45.0#





#31

Cyclohexane

Concen: 1.287 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. 0.02 min

Lab File: VN063311.D

Acq: 11 Sep 2020 13:54

Instrument :
MSVOA_N
ClientSampled :

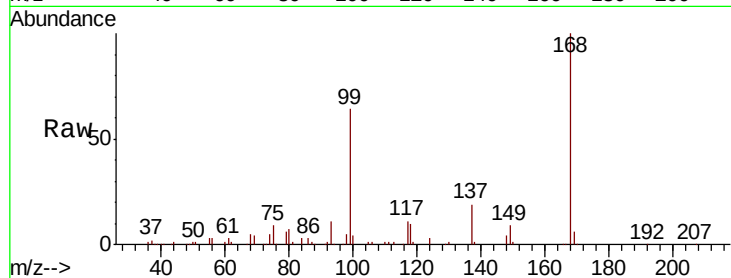
Tot Ion: 56 Resp: 10746

Ion Ratio Lower Upper

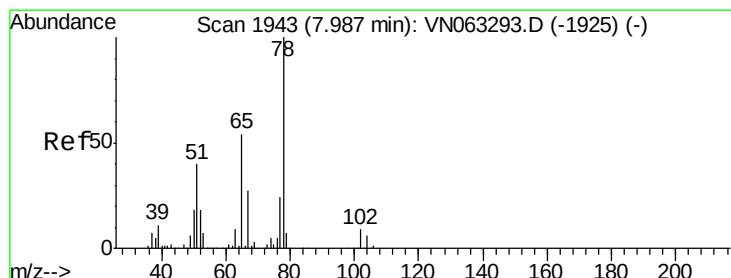
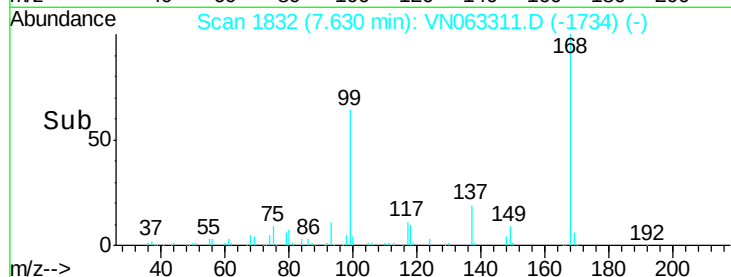
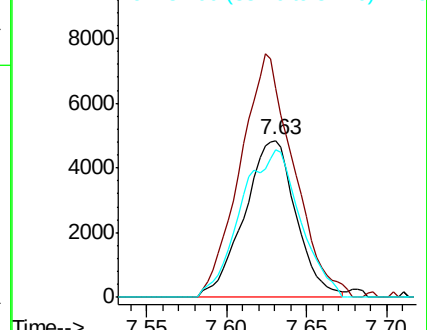
56 100

69 133.3 25.1 37.7#

84 94.2 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: 48.449 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. -0.00 min

Lab File: VN063311.D

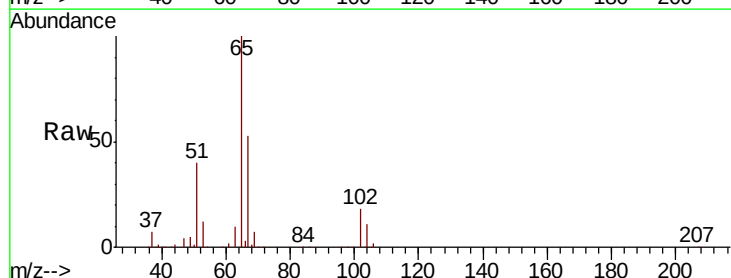
Acq: 11 Sep 2020 13:54

Tgt Ion: 65 Resp: 288458

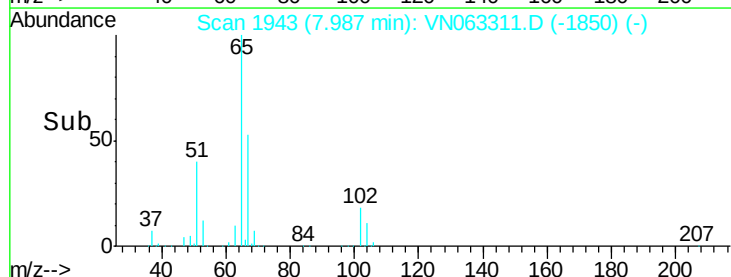
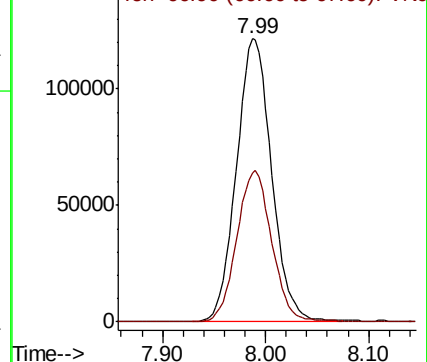
Ion Ratio Lower Upper

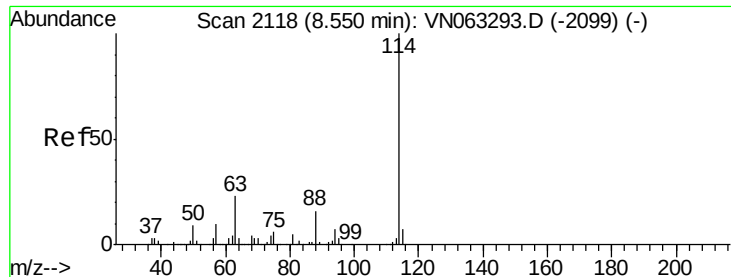
65 100

67 52.9 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: VN063311.D

Acq: 11 Sep 2020 13:54

Instrument :

MSVOA_N

ClientSampleId :

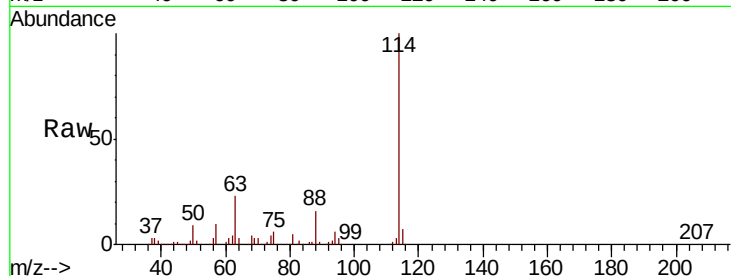
Tot Ion:114 Resp: 713510

Ion Ratio Lower Upper

114 100

63 23.0 0.0 46.0

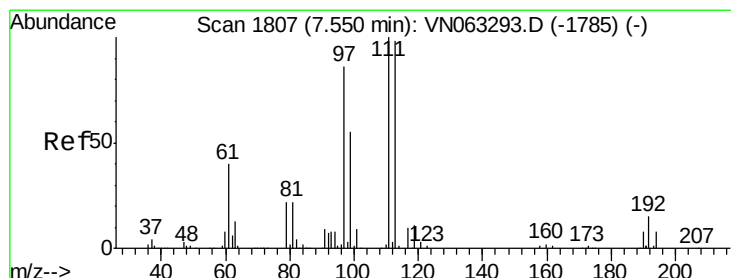
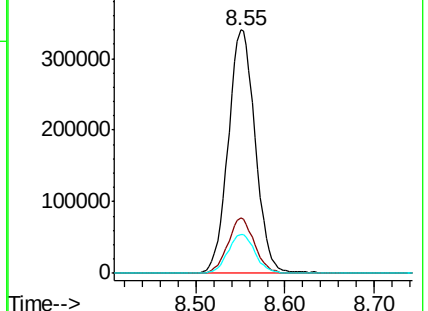
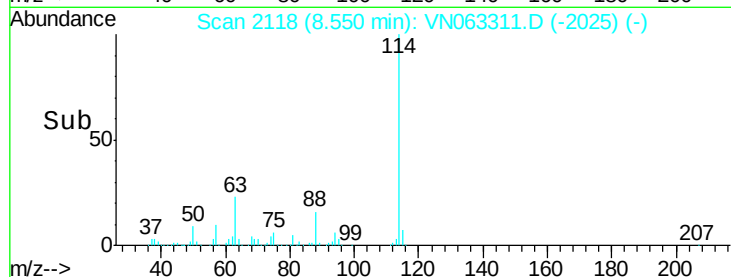
88 16.2 0.0 32.8



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: 49.062 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. -0.00 min

Lab File: VN063311.D

Acq: 11 Sep 2020 13:54

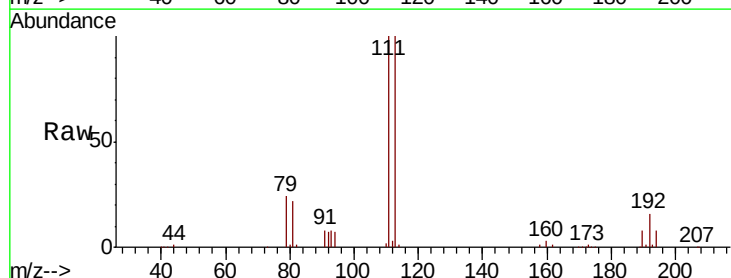
Tgt Ion:113 Resp: 225835

Ion Ratio Lower Upper

113 100

111 103.0 82.2 123.2

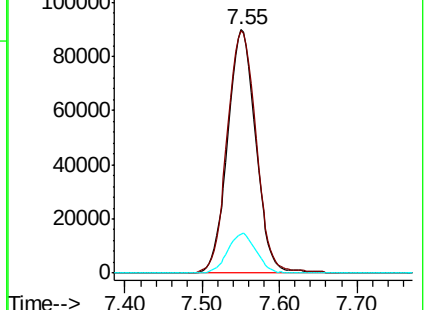
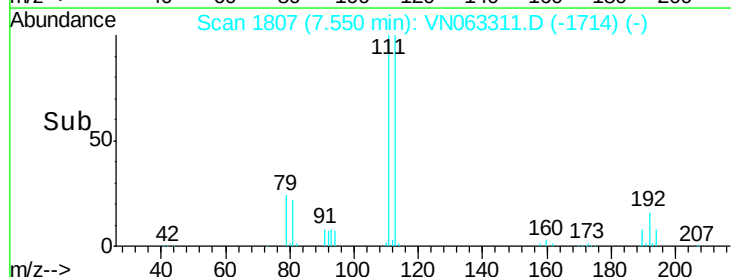
192 16.4 12.9 19.3

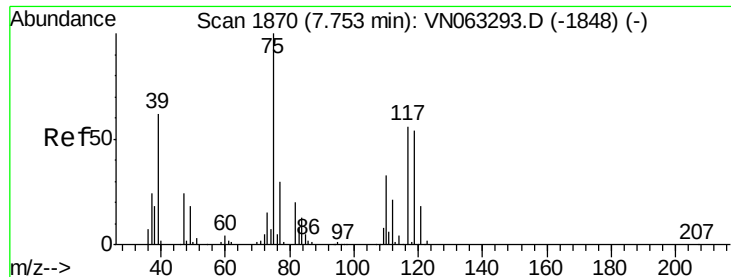


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

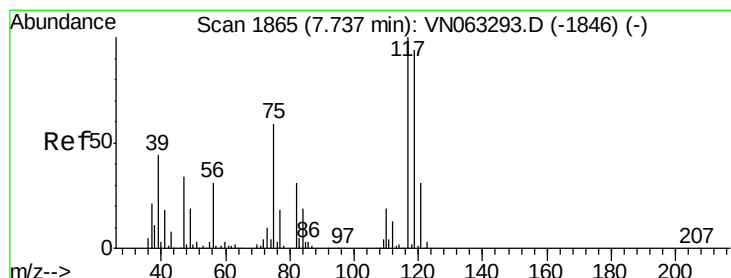
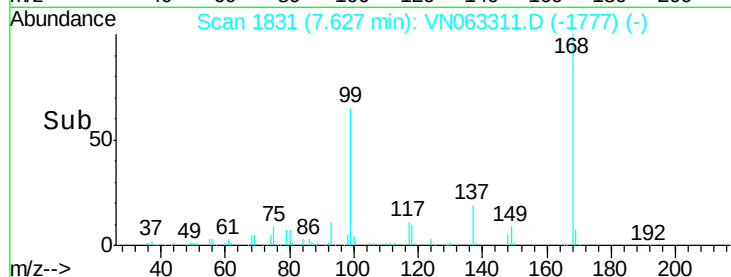
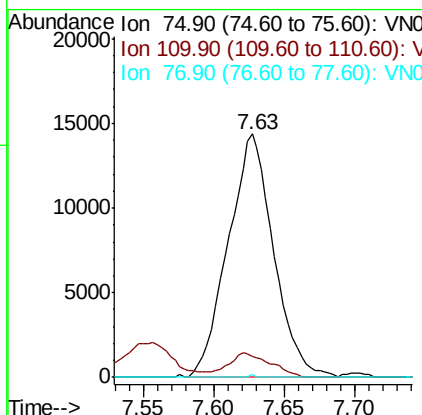
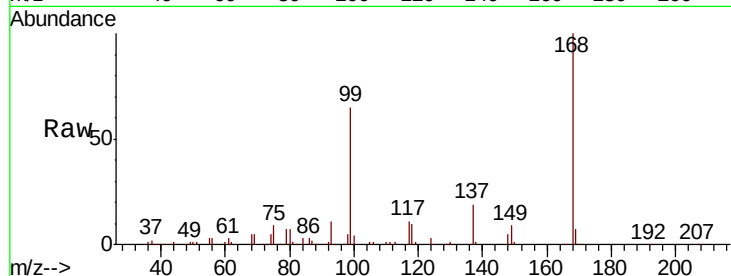




#36
 1,1-Dichloropropene
 Concen: 4.408 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN063311.D
 Acq: 11 Sep 2020 13:54

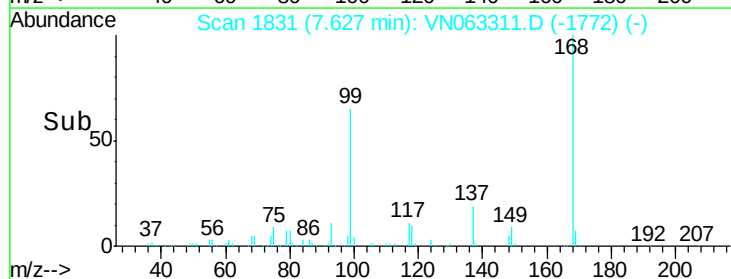
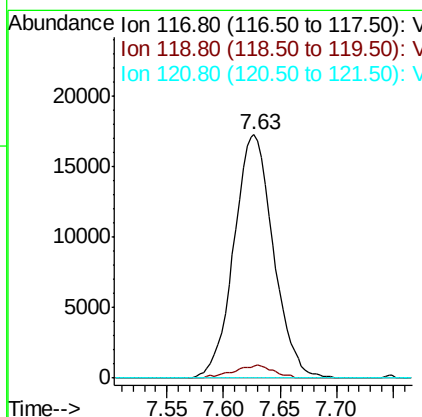
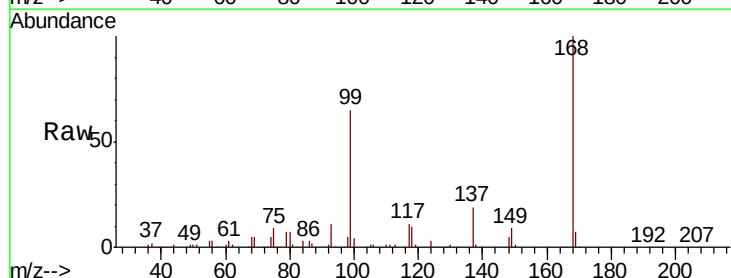
Instrument :
 MSVOA_N
 ClientSampled :

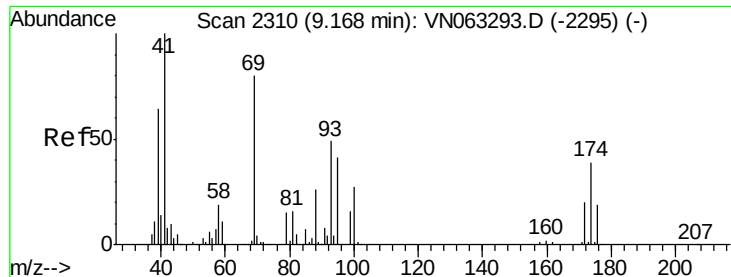
Tot Ion	75	Resp	32330
Ion Ratio	Lower	Upper	
75	100		
110	9.5	16.4	49.4#
77	0.1	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 5.791 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.11 min
 Lab File: VN063311.D
 Acq: 11 Sep 2020 13:54

Tgt Ion	117	Resp	41804
Ion Ratio <td>Lower</td> <td>Upper</td> <td></td>	Lower	Upper	
117	100		
119	5.1	75.3	112.9#
121	0.0	24.6	37.0#

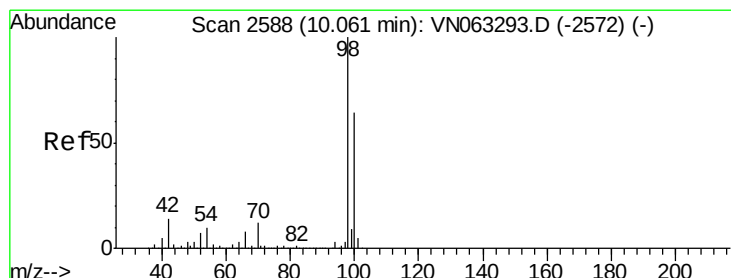
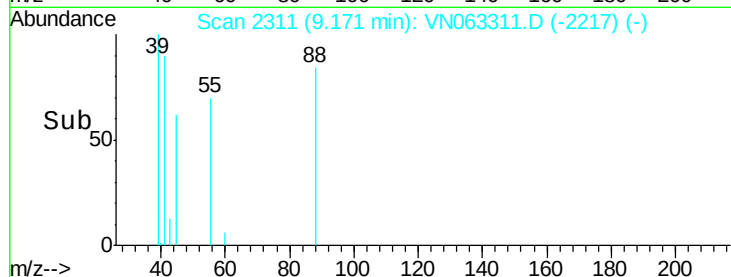
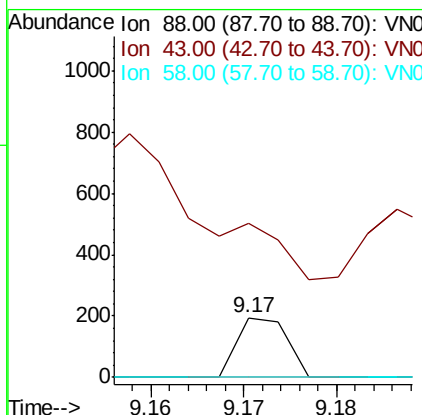
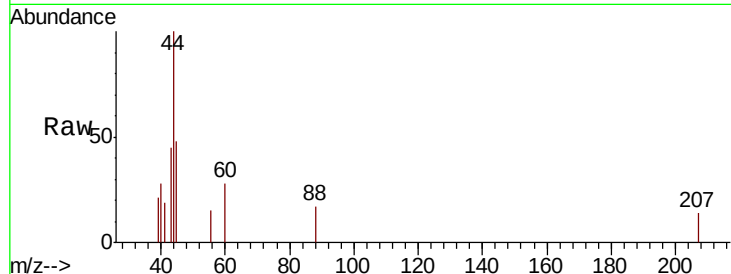




#49
1,4-Dioxane
Concen: 0.798 ug/l
RT: 9.17 min Scan# 2311
Delta R.T. 0.00 min
Lab File: VN063311.D
Acq: 11 Sep 2020 13:54

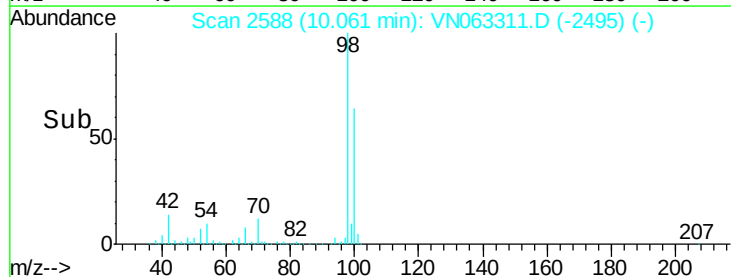
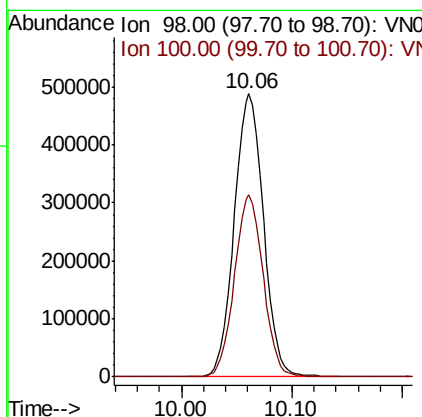
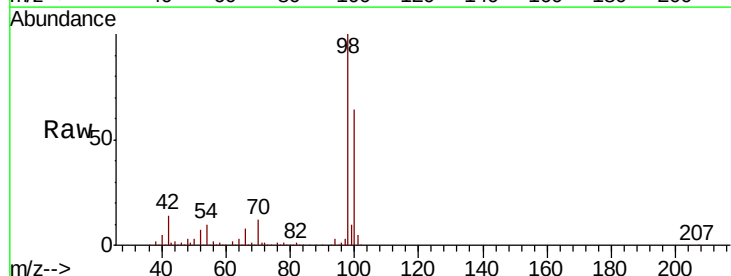
Instrument :
MSVOA_N
ClientSampled :

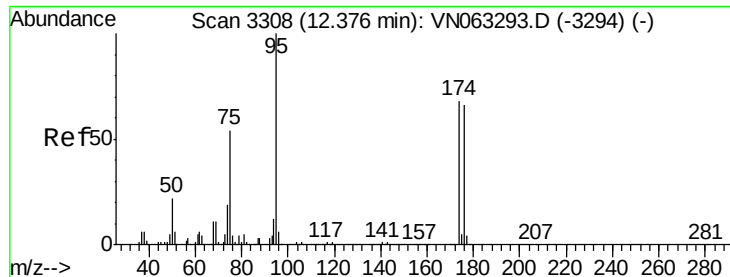
Tot Ion: 88 Resp: 72
Ion Ratio Lower Upper
88 100
43 758.3 30.5 45.7#
58 0.0 58.9 88.3#



#50
Toluene-d8
Concen: 50.844 ug/l
RT: 10.06 min Scan# 2588
Delta R.T. -0.00 min
Lab File: VN063311.D
Acq: 11 Sep 2020 13:54

Tgt Ion: 98 Resp: 896883
Ion Ratio Lower Upper
98 100
100 63.6 50.7 76.1





#62

4-Bromofluorobenzene

Concen: 51.649 ug/l

RT: 12.38 min Scan# 3309

Delta R.T. 0.00 min

Lab File: VN063311.D

Acq: 11 Sep 2020 13:54

Instrument :

MSVOA_N

ClientSampled :

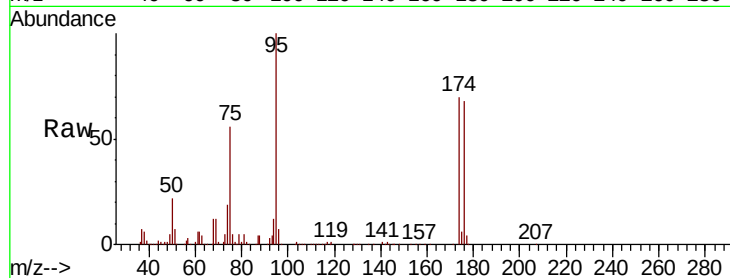
Tot Ion: 95 Resp: 336513

Ion Ratio Lower Upper

95 100

174 69.1 0.0 136.6

176 66.9 0.0 132.8



Abundance Ion 94.90 (94.60 to 95.60): VN063311.D (-3215) (-)

Ion 173.80 (173.50 to 174.50): VN063311.D (-3215) (-)

Ion 175.80 (175.50 to 176.50): VN063311.D (-3215) (-)

12.38

250000

200000

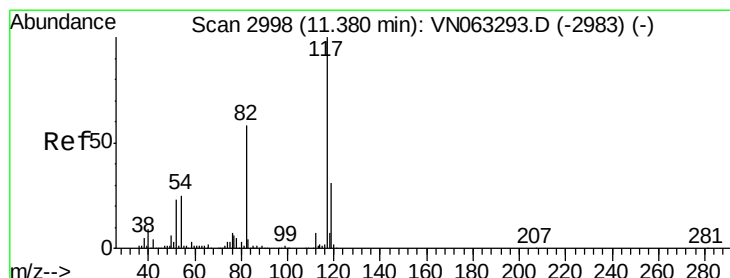
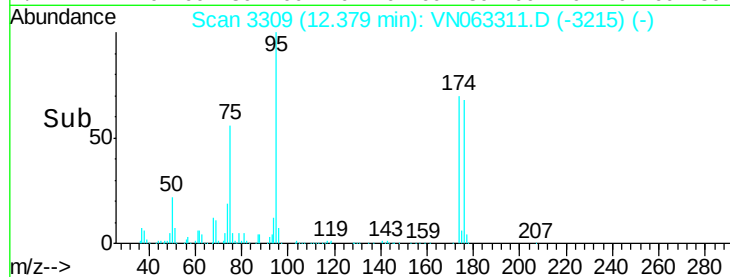
150000

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: VN063311.D

Acq: 11 Sep 2020 13:54

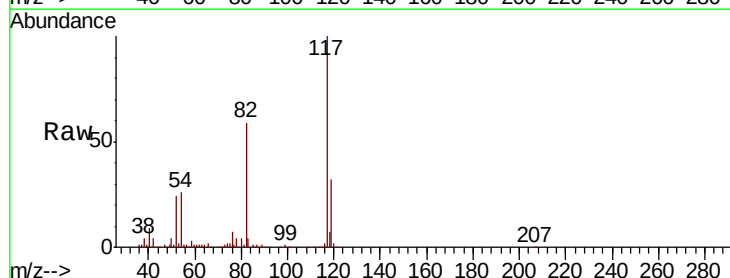
Tgt Ion: 117 Resp: 684412

Ion Ratio Lower Upper

117 100

82 59.1 46.4 69.6

119 31.9 24.8 37.2



Abundance Ion 116.90 (116.60 to 117.60): VN063311.D (-2905) (-)

Ion 82.00 (81.70 to 82.70): VN063311.D (-2905) (-)

Ion 118.90 (118.60 to 119.60): VN063311.D (-2905) (-)

11.38

500000

400000

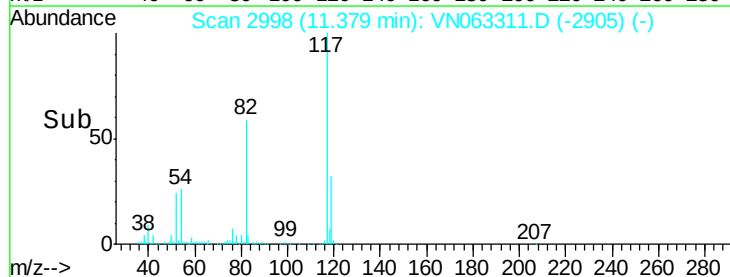
300000

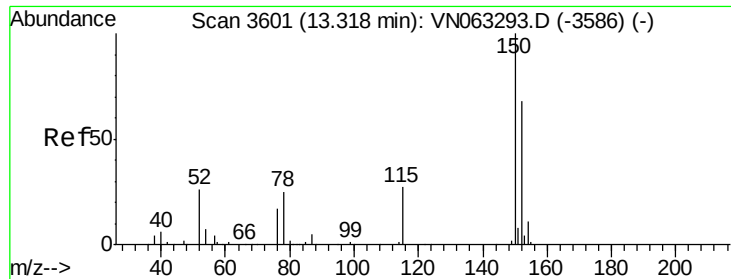
200000

100000

0

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3602

Delta R.T. 0.00 min

Lab File: VN063311.D

Acq: 11 Sep 2020 13:54

Instrument :

MSVOA_N

ClientSampleId :

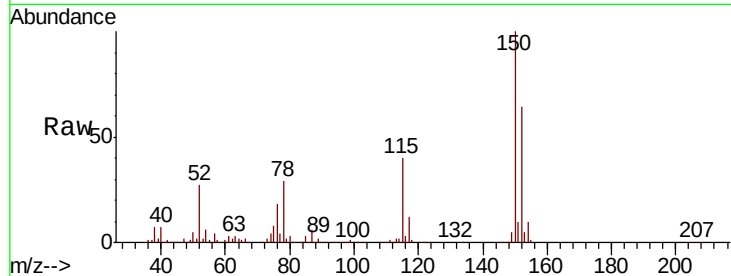
Tot Ion:152 Resp: 278007

Ion Ratio Lower Upper

152 100

115 63.1 31.5 94.5

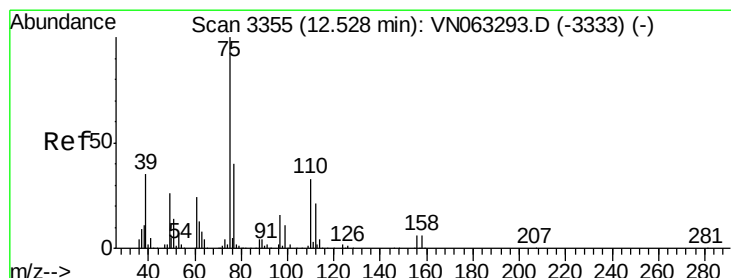
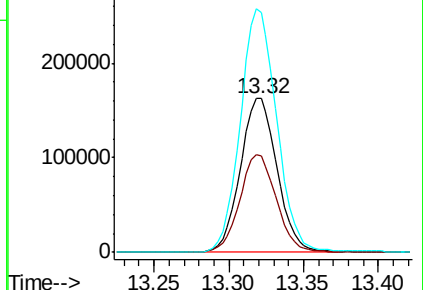
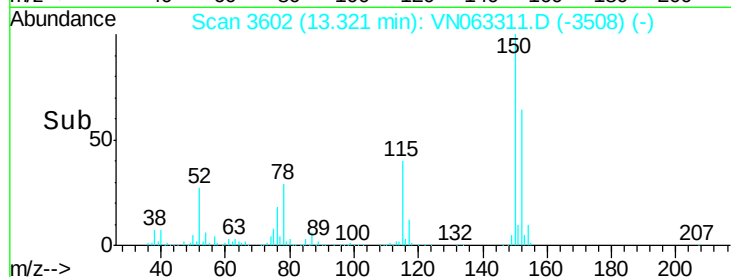
150 157.4 0.0 344.0



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: 29.951 ug/l

RT: 12.38 min Scan# 3309

Delta R.T. -0.15 min

Lab File: VN063311.D

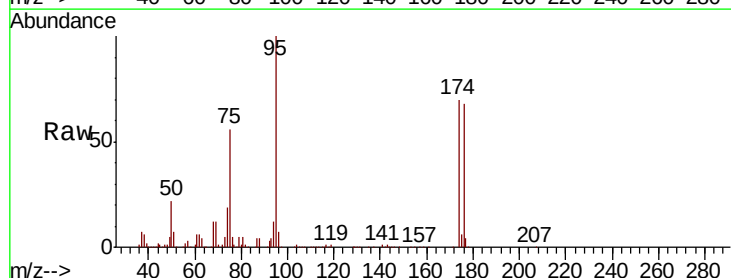
Acq: 11 Sep 2020 13:54

Tgt Ion: 75 Resp: 183695

Ion Ratio Lower Upper

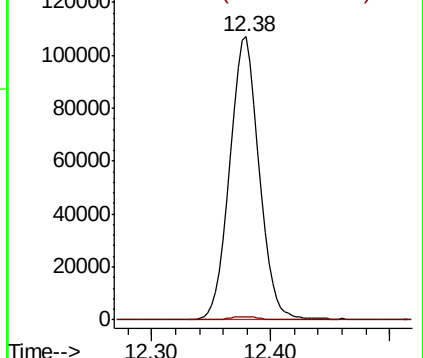
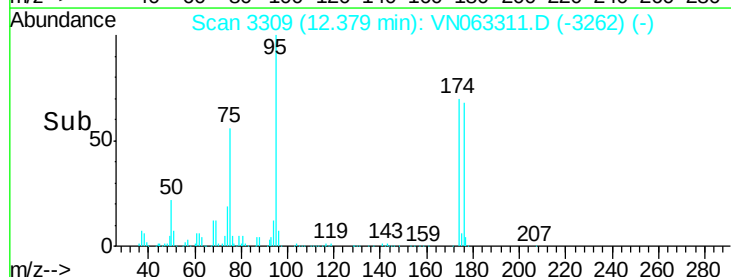
75 100

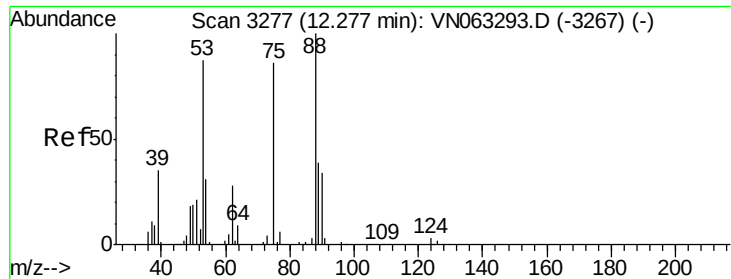
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

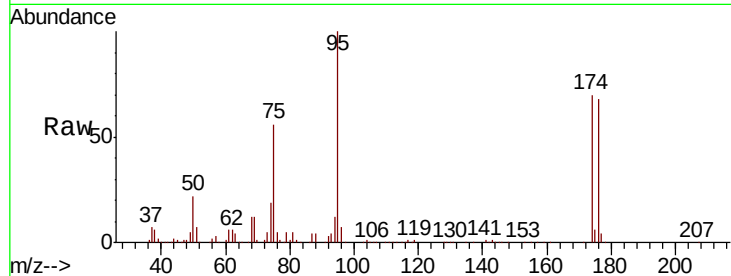




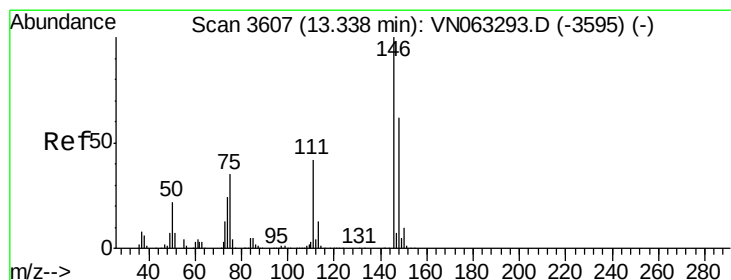
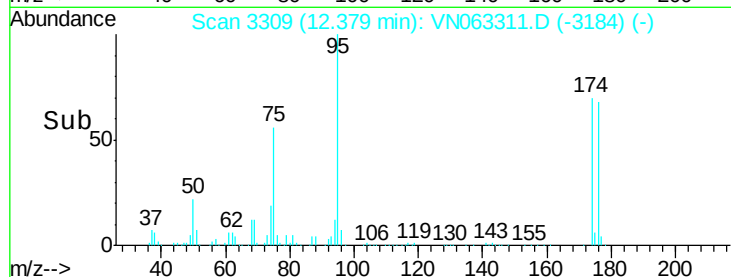
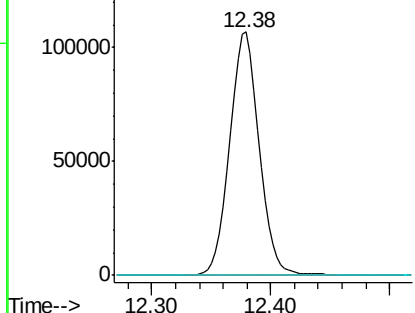
#81
trans-1,4-Dichloro-2-butene
Concen: 80.472 ug/l
RT: 12.38 min Scan# 3309
Delta R.T. 0.10 min
Lab File: VN063311.D
Acq: 11 Sep 2020 13:54

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 75 Resp: 183695
Ion Ratio Lower Upper
75 100
53 0.0 81.8 122.8#
89 0.0 36.7 55.1#

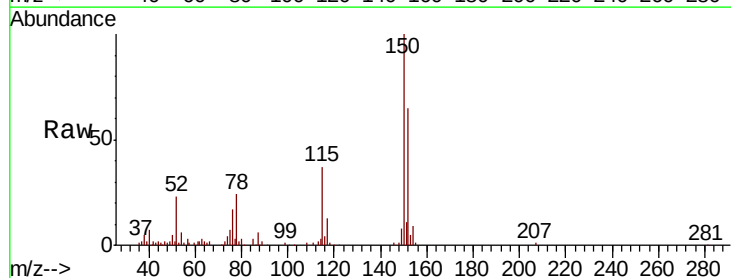


Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 53.00 (52.70 to 53.70): VN0
Ion 88.90 (88.60 to 89.60): VN0

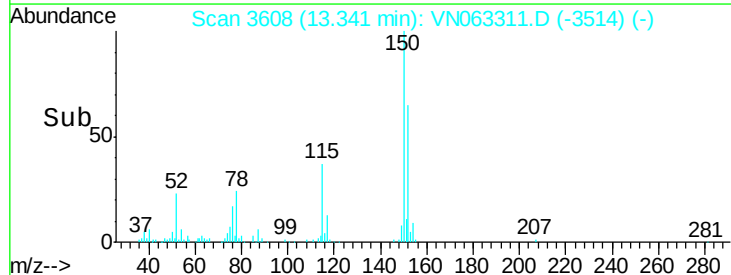
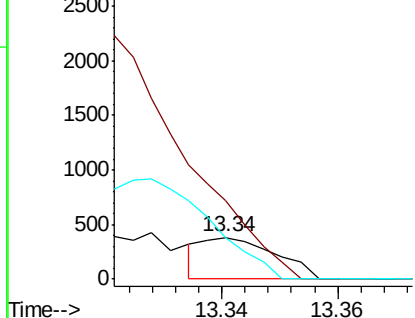


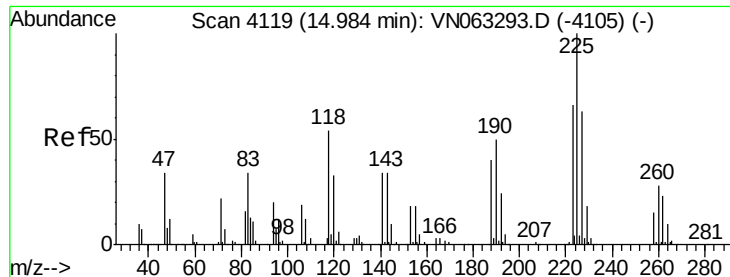
#88
1,4-Dichlorobenzene
Concen: Below Cal
RT: 13.34 min Scan# 3608
Delta R.T. 0.00 min
Lab File: VN063311.D
Acq: 11 Sep 2020 13:54

Tgt Ion: 146 Resp: 331
Ion Ratio Lower Upper
146 100
111 0.0 21.3 64.0#
148 0.0 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

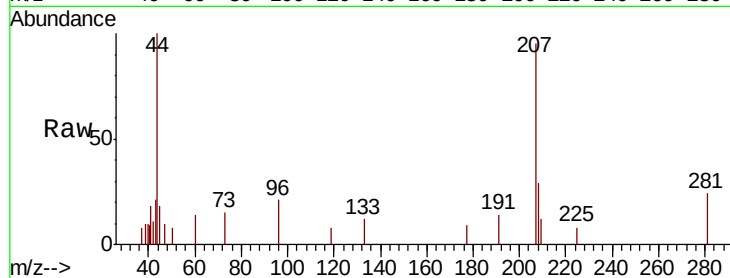




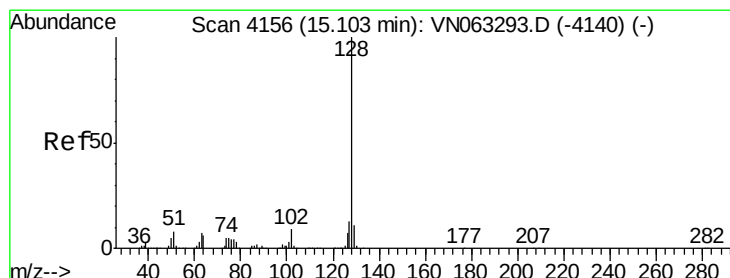
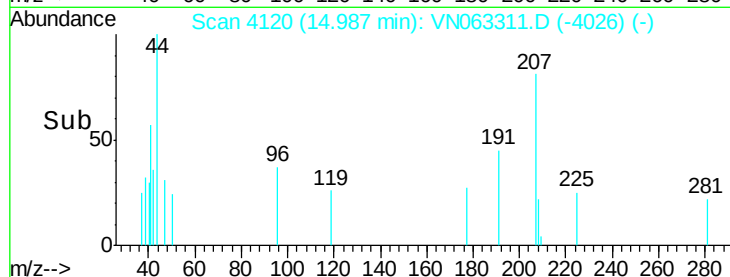
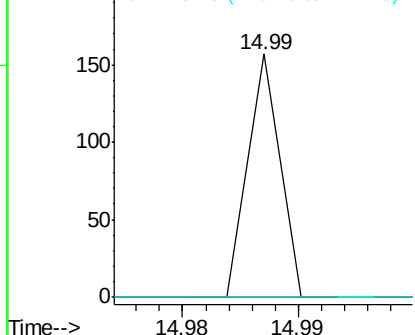
#94
Hexachlorobutadiene
Concen: Below Cal
RT: 14.99 min Scan# 4120
Delta R.T. 0.00 min
Lab File: VN063311.D
Acq: 11 Sep 2020 13:54

Instrument :
MSVOA_N
ClientSampled :

Tot Ion	Ratio	Lower	Upper
225	100		
223	0.0	31.3	93.9#
227	0.0	31.2	93.6#

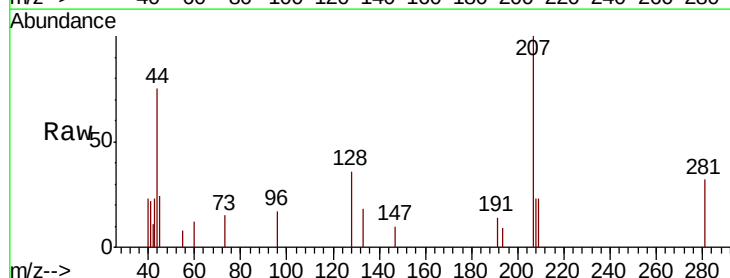


Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V

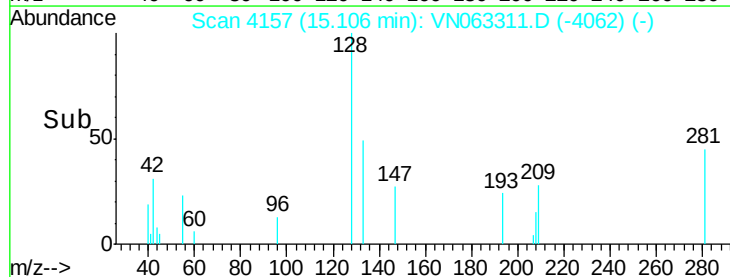
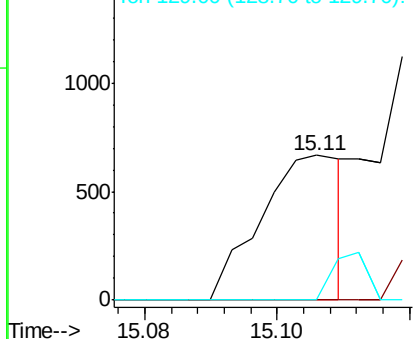


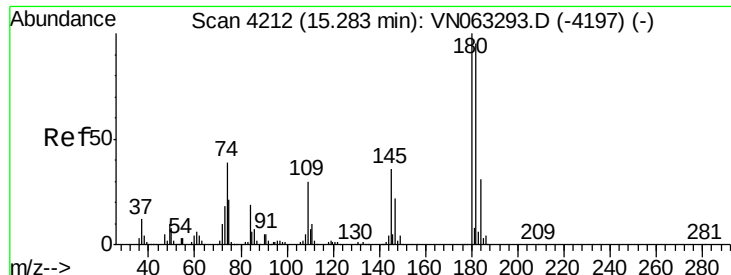
#95
Naphthalene
Concen: Below Cal
RT: 15.11 min Scan# 4157
Delta R.T. 0.00 min
Lab File: VN063311.D
Acq: 11 Sep 2020 13:54

Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.3	15.5#
129	0.0	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

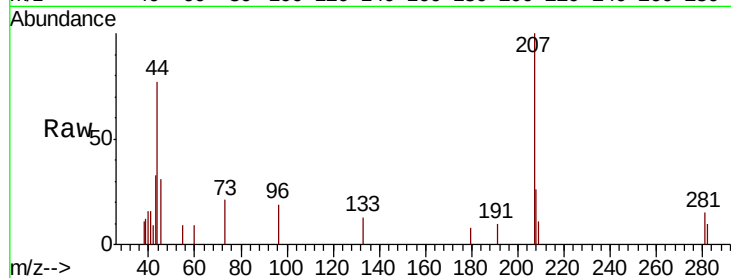




#96
 1,2,3-Trichlorobenzene
 Concen: Below Cal
 RT: 15.31 min Scan# 4219
 Delta R.T. 0.02 min
 Lab File: VN063311.D
 Acq: 11 Sep 2020 13:54

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	448.3	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

