

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091120\
 Data File : VN063310.D
 Acq On : 11 Sep 2020 13:30
 Operator : JC/MD
 Sample : L3988-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TB03-20200908

Quant Time: Sep 12 00:39:49 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	378135	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	701757	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	678932	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	275159	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	289479	48.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.46%	
35) Dibromofluoromethane	7.55	113	224274	49.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.08%	
50) Toluene-d8	10.06	98	901098	51.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.88%	
62) 4-Bromofluorobenzene	12.38	95	329633	51.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.88%	

Target Compounds

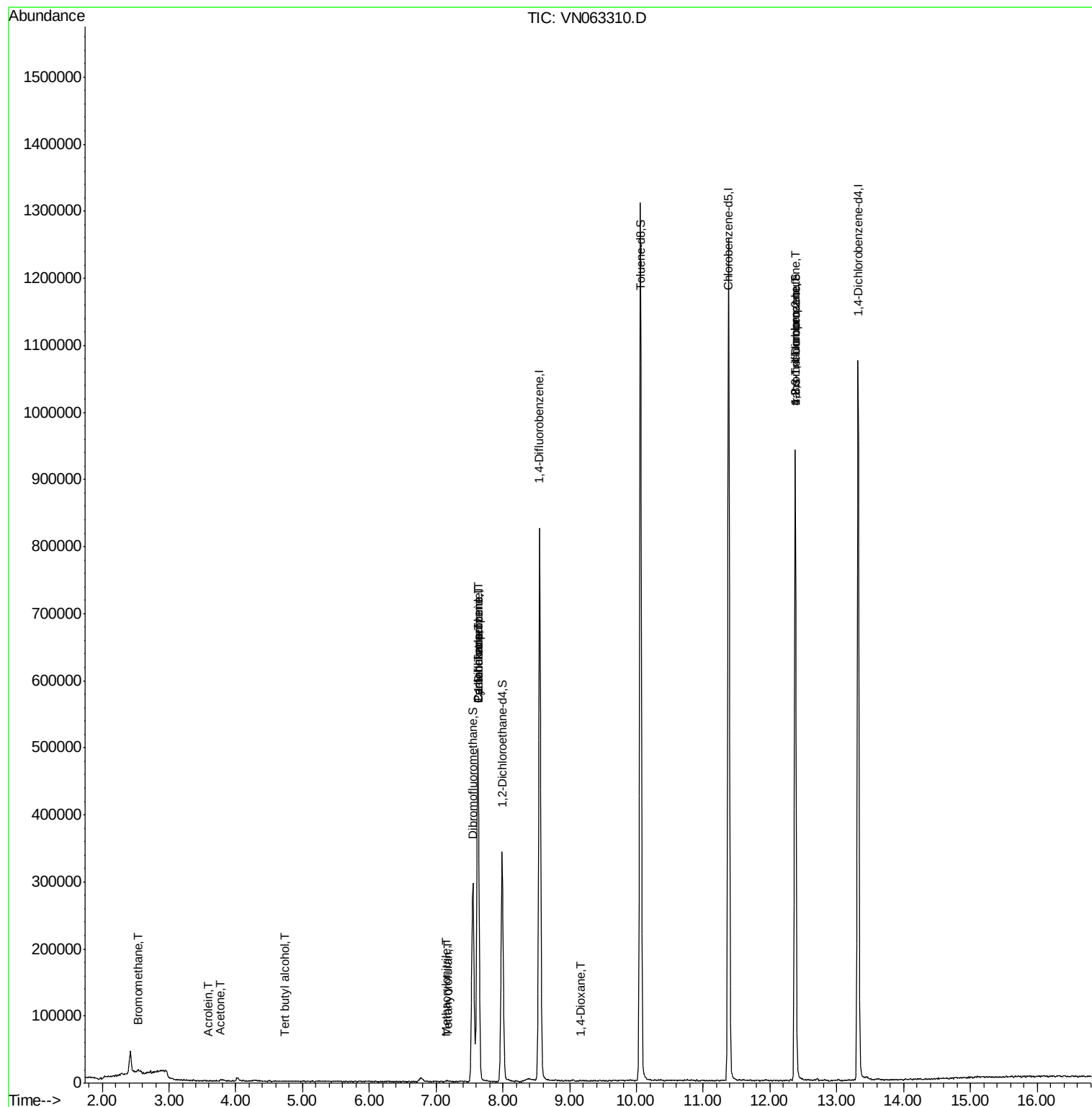
						Qvalue
3) Chloromethane	2.04	50	1782	Below Cal		91
5) Bromomethane	2.54	94	1281	0.357 ug/l #		73
11) Tert butyl alcohol	4.74	59	272	0.346 ug/l #		72
13) Acrolein	3.59	56	29	32.517 ug/l #		1
16) Acetone	3.78	43	1996	0.973 ug/l #		86
17) Carbon Disulfide	4.02	76	1451	Below Cal #		75
20) Methylene Chloride	4.49	84	336	Below Cal #		28
29) Tetrahydrofuran	7.17	42	487	0.247 ug/l #		74
31) Cyclohexane	7.63	56	9956	1.195 ug/l #		1
36) 1,1-Dichloropropene	7.63	75	33769	4.682 ug/l #		48
38) Carbon Tetrachloride	7.63	117	39587	5.576 ug/l #		16
41) Methacrylonitrile	7.16	41	762	0.237 ug/l #		100
49) 1,4-Dioxane	9.17	88	112	1.261 ug/l #		4
76) 1,2,3-Trichloropropane	12.38	75	178513	29.407 ug/l #		100
81) trans-1,4-Dichloro-2-buten	12.38	75	178513	79.011 ug/l #		9
88) 1,4-Dichlorobenzene	13.33	146	870	Below Cal #		3
95) Naphthalene	15.11	128	2151	Below Cal #		83
96) 1,2,3-Trichlorobenzene	15.29	180	171	Below Cal #		20

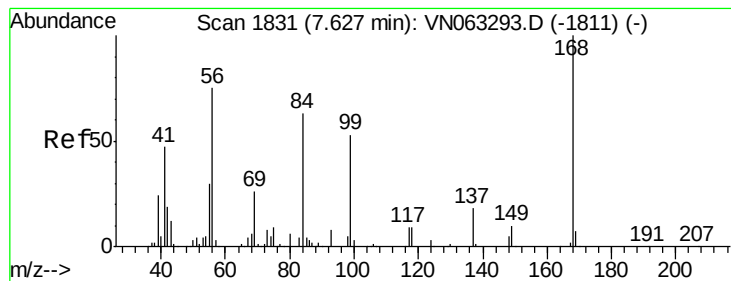
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN063310.D

Acq: 11 Sep 2020 13:30

Instrument :

MSVOA_N

ClientSampleId :

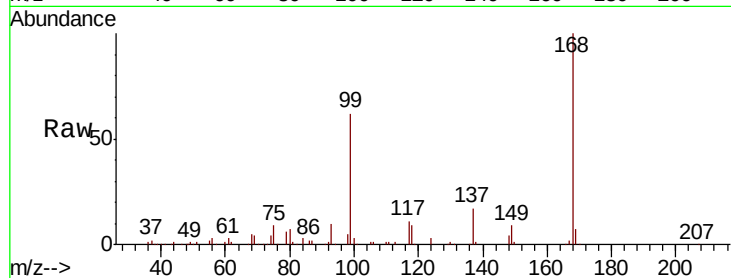
TB03-20200908

Tot Ion:168 Resp: 378135

Ion Ratio Lower Upper

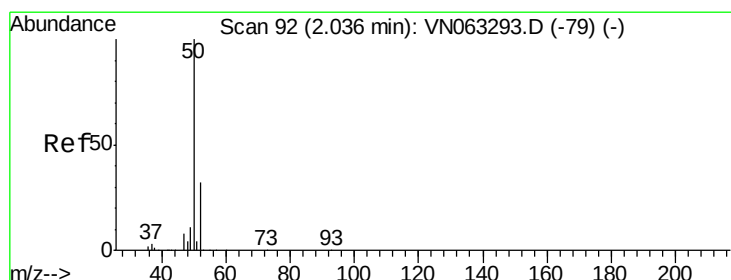
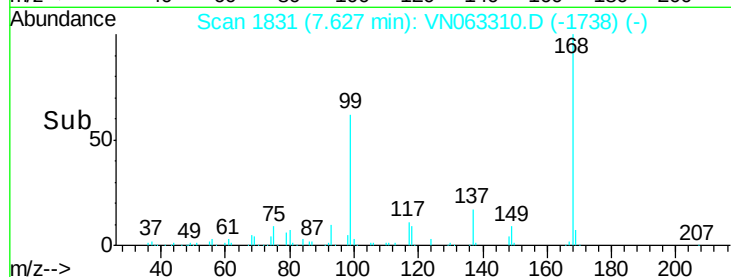
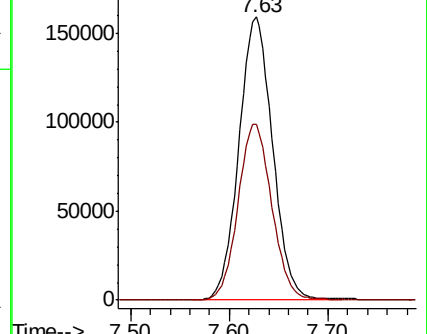
168 100

99 61.9 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# 93

Delta R.T. 0.00 min

Lab File: VN063310.D

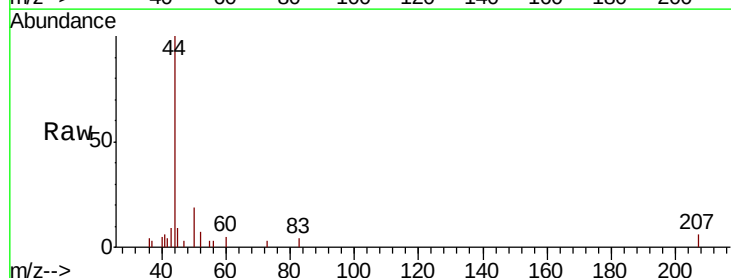
Acq: 11 Sep 2020 13:30

Tgt Ion: 50 Resp: 1782

Ion Ratio Lower Upper

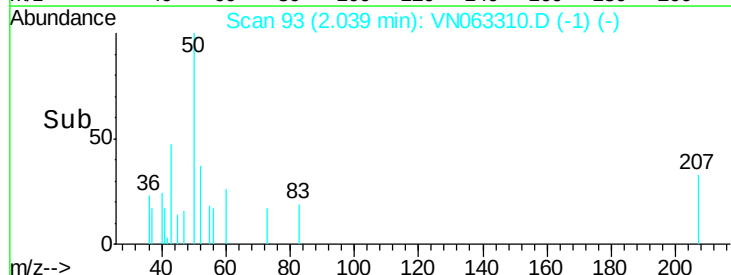
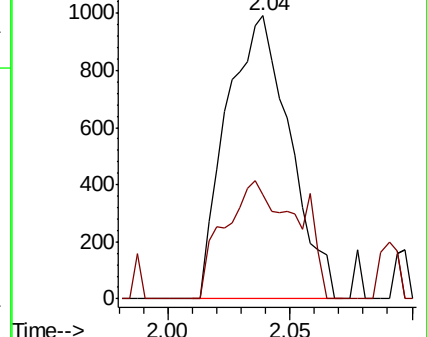
50 100

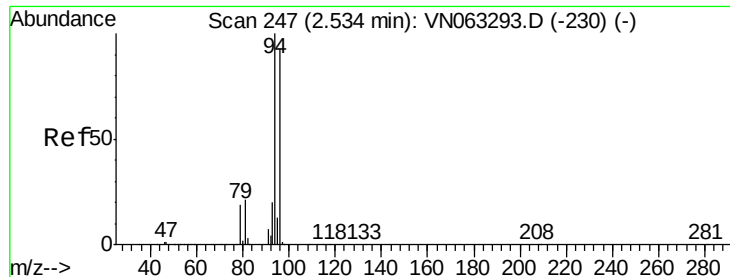
52 36.7 25.4 38.2



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO





#5

Bromomethane

Concen: 0.357 ug/l

RT: 2.54 min Scan# 250

Delta R.T. 0.01 min

Lab File: VN063310.D

Acq: 11 Sep 2020 13:30

Instrument :

MSVOA_N

ClientSampleId :

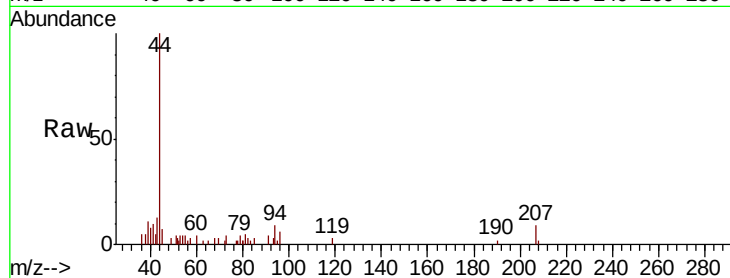
TB03-20200908

Tot Ion: 94 Resp: 1281

Ion Ratio Lower Upper

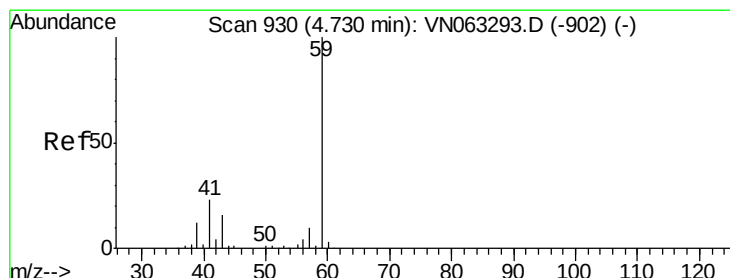
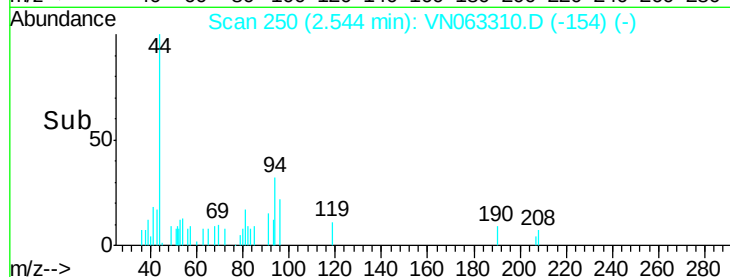
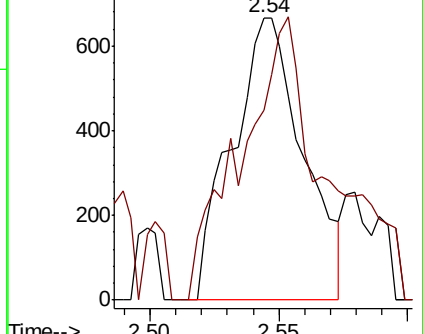
94 100

96 67.2 74.3 111.5#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#11

Tert butyl alcohol

Concen: 0.346 ug/l

RT: 4.74 min Scan# 934

Delta R.T. 0.01 min

Lab File: VN063310.D

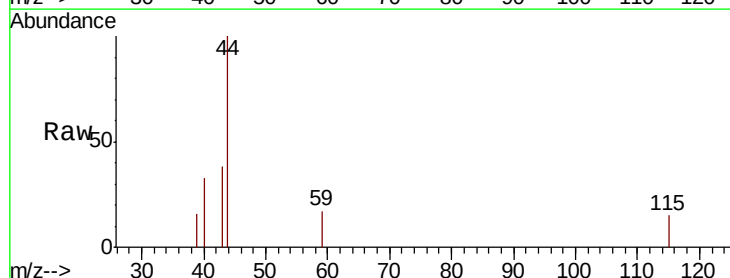
Acq: 11 Sep 2020 13:30

Tgt Ion: 59 Resp: 272

Ion Ratio Lower Upper

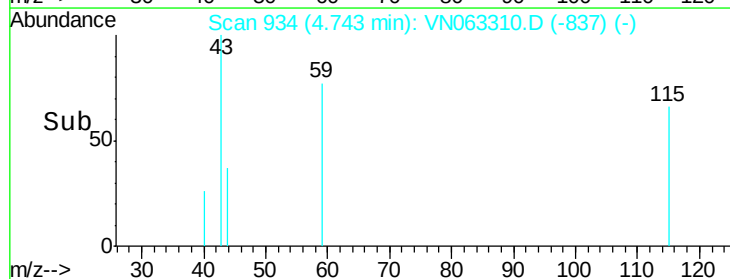
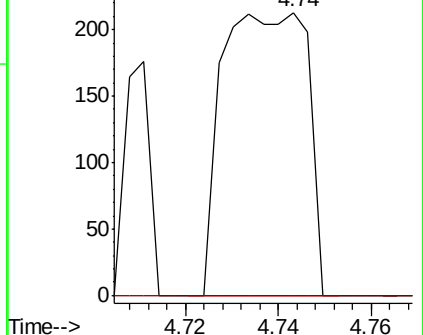
59 100

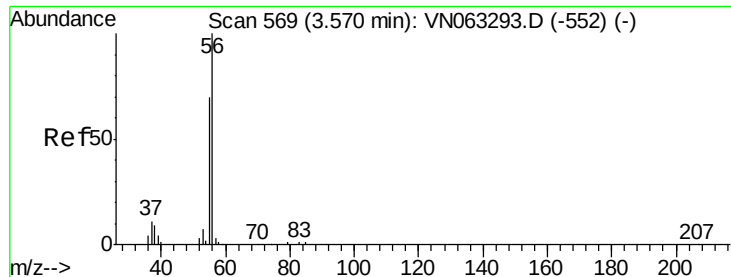
57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#13

Acrolein

Concen: 32.517 ug/l

RT: 3.59 min Scan# 575

Delta R.T. 0.02 min

Lab File: VN063310.D

Acq: 11 Sep 2020 13:30

Instrument :

MSVOA_N

ClientSampleId :

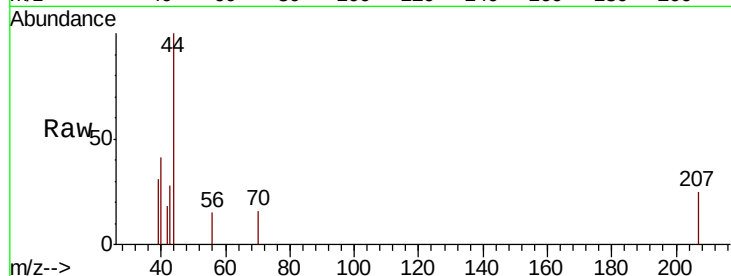
TB03-20200908

Tot Ion: 56 Resp: 29

Ion Ratio Lower Upper

56 100

55 544.8 57.2 85.8#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

250

200

150

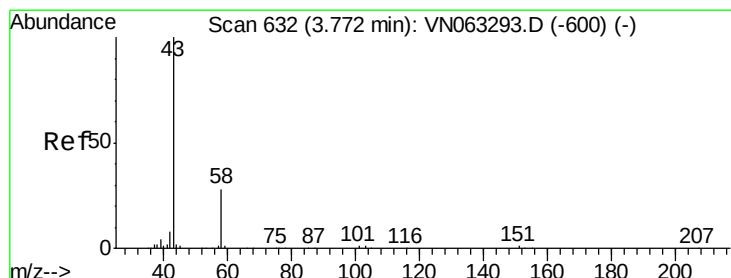
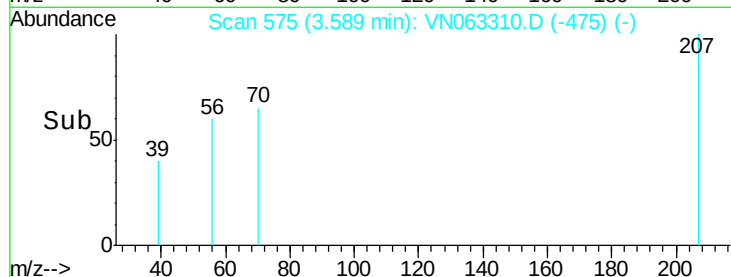
100

50

0

3.58 3.59 3.59 3.60 3.60

Time-->



#16

Acetone

Concen: 0.973 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.01 min

Lab File: VN063310.D

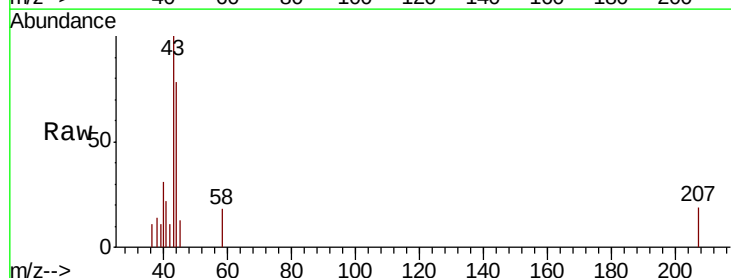
Acq: 11 Sep 2020 13:30

Tgt Ion: 43 Resp: 1996

Ion Ratio Lower Upper

43 100

58 21.0 22.6 34.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

1500

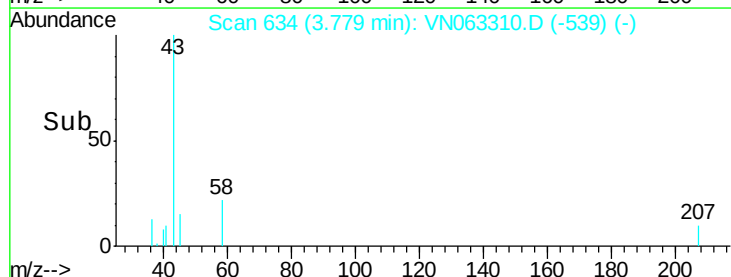
1000

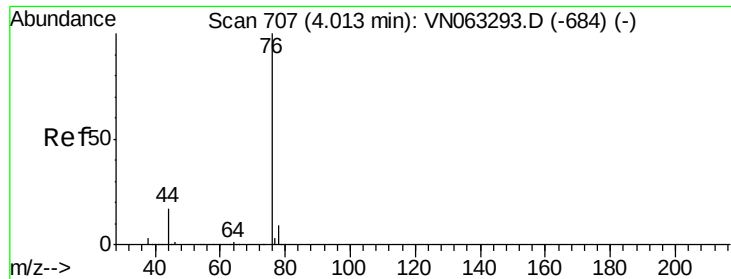
500

0

3.74 3.76 3.78 3.78 3.78

Time-->





#17

Carbon Disulfide

Concen: Below Cal

RT: 4.02 min Scan# 708

Delta R.T. 0.00 min

Lab File: VN063310.D

Acq: 11 Sep 2020 13:30

Instrument :

MSVOA_N

ClientSampleId :

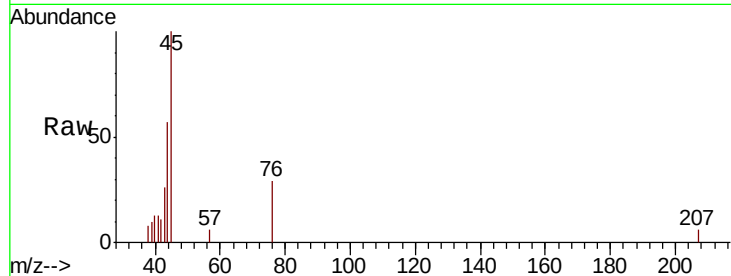
TB03-20200908

Tot Ion: 76 Resp: 1451

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

800

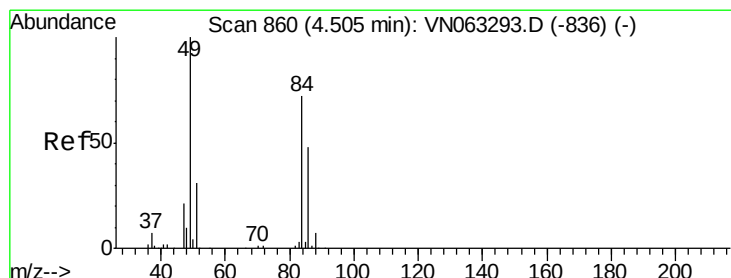
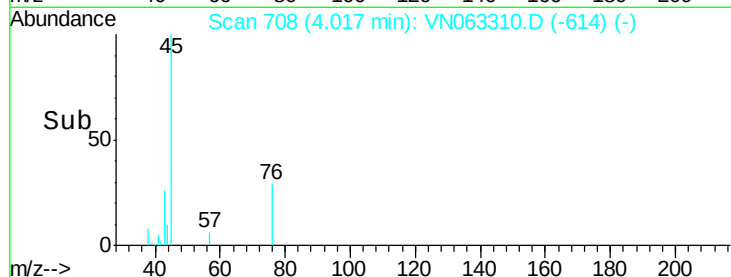
600

400

200

0

Time-->



#20

Methylene Chloride

Concen: Below Cal

RT: 4.49 min Scan# 856

Delta R.T. -0.01 min

Lab File: VN063310.D

Acq: 11 Sep 2020 13:30

Tgt Ion: 84 Resp: 336

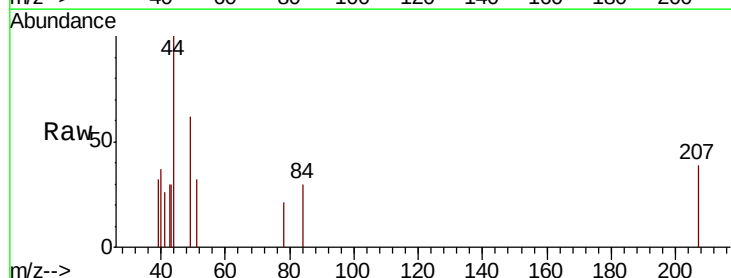
Ion Ratio Lower Upper

84 100

49 207.9 111.1 166.7#

51 107.5 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

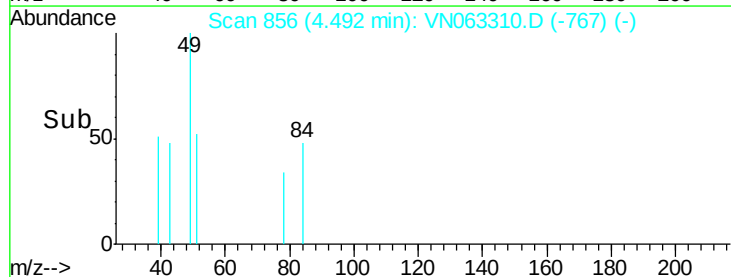
600

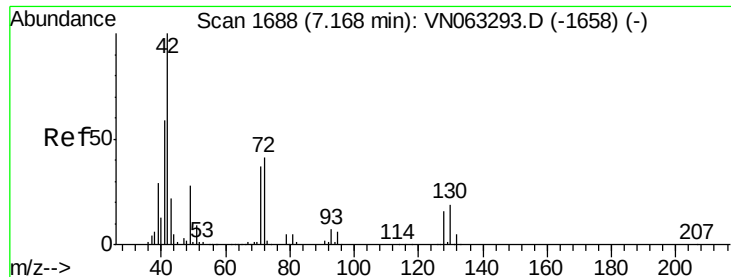
400

200

0

Time-->





#29

Tetrahydrofuran

Concen: 0.247 ug/l

RT: 7.17 min Scan# 1690

Delta R.T. 0.01 min

Lab File: VN063310.D

Acq: 11 Sep 2020 13:30

Instrument :

MSVOA_N

ClientSampleId :

TB03-20200908

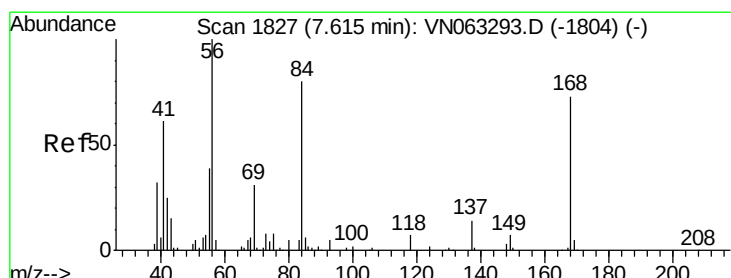
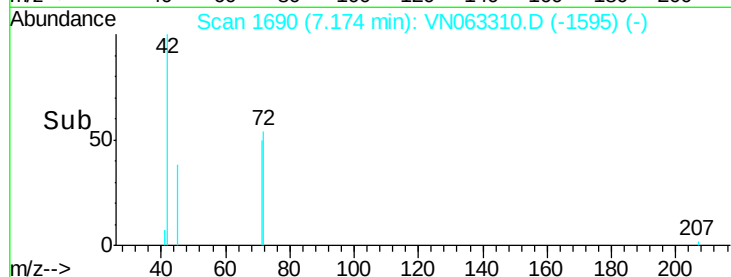
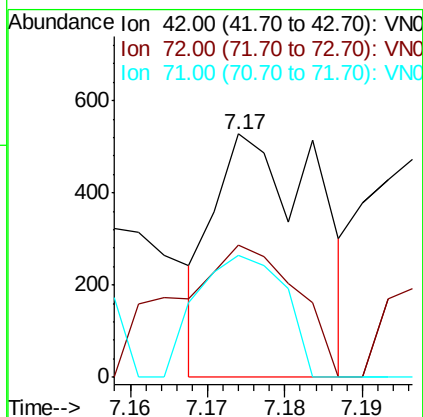
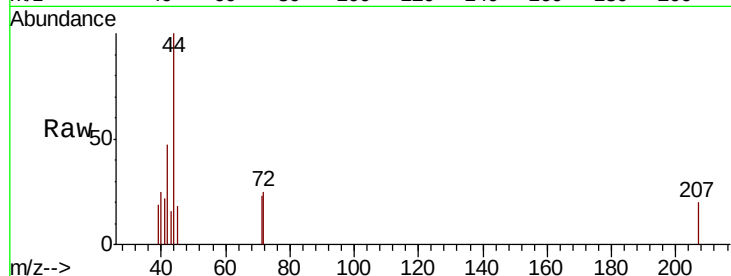
Tot Ion: 42 Resp: 487

Ion Ratio Lower Upper

42 100

72 65.1 31.4 47.2#

71 42.9 30.0 45.0



#31

Cyclohexane

Concen: 1.195 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN063310.D

Acq: 11 Sep 2020 13:30

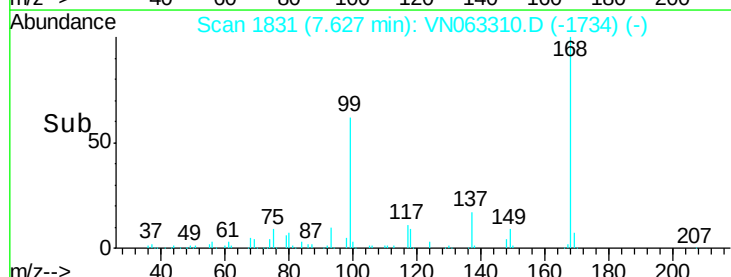
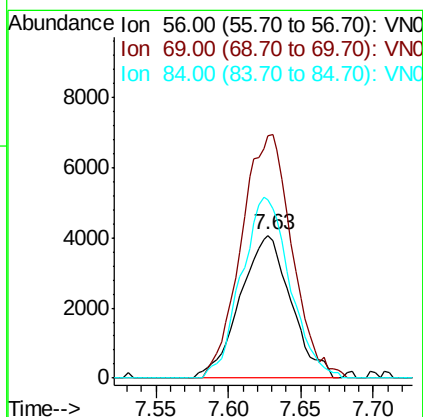
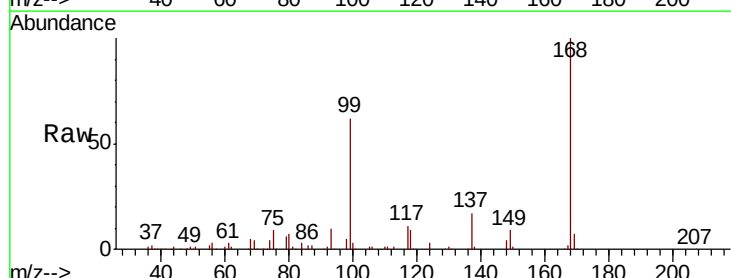
Tgt Ion: 56 Resp: 9956

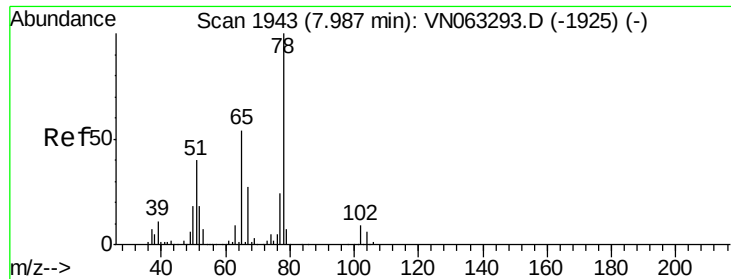
Ion Ratio Lower Upper

56 100

69 169.8 25.1 37.7#

84 124.8 64.2 96.2#

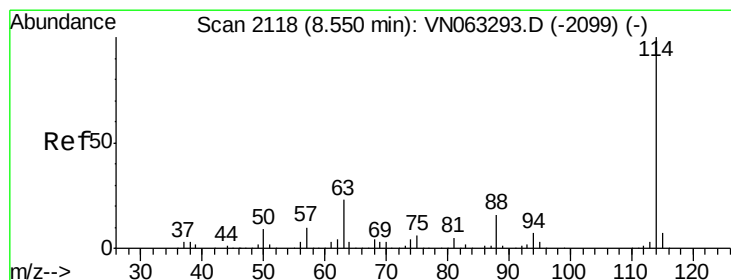
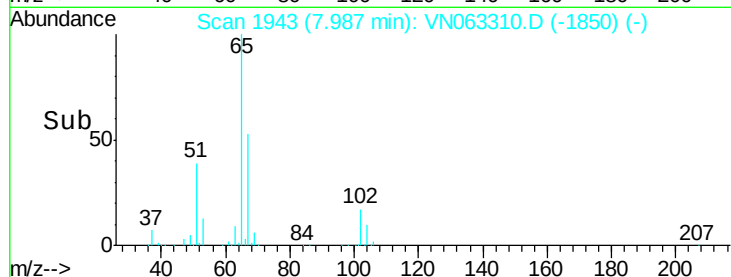
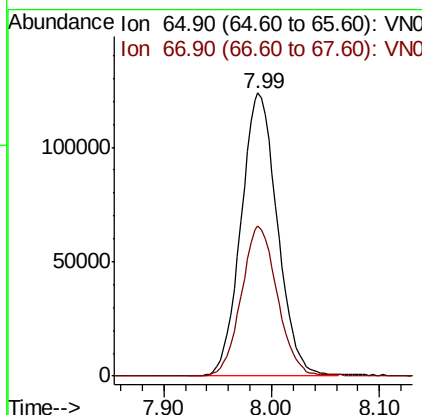
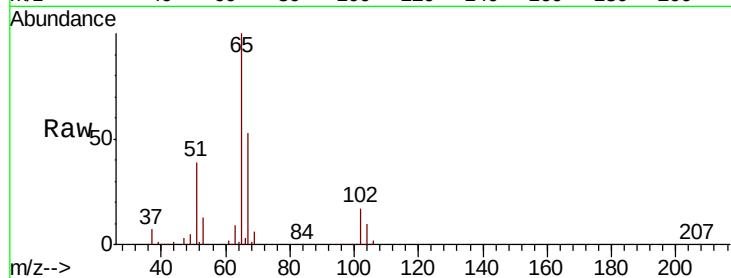




#33
 1,2-Dichloroethane-d4
 Concen: 48.726 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. -0.00 min
 Lab File: VN063310.D
 Acq: 11 Sep 2020 13:30

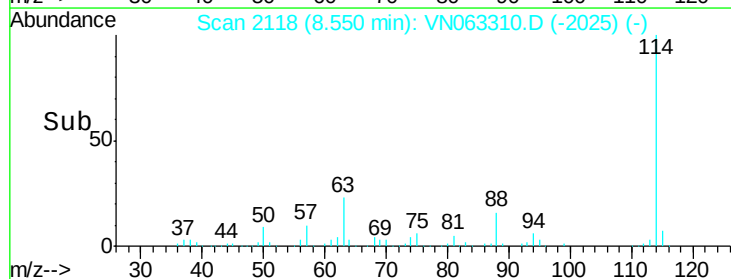
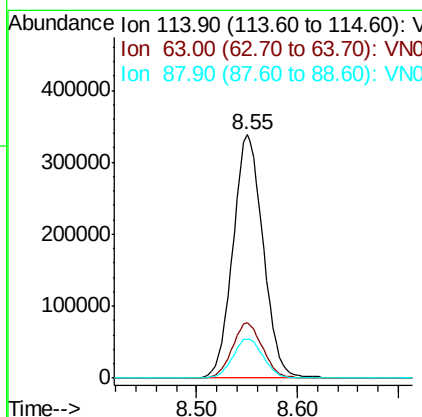
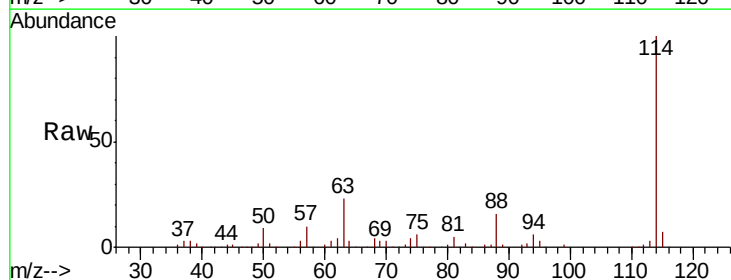
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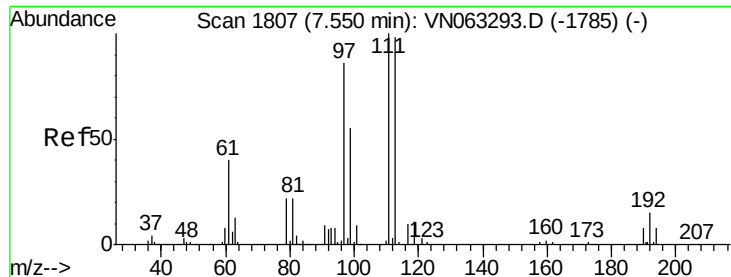
Tot Ion: 65 Resp: 289479
 Ion Ratio Lower Upper
 65 100
 67 52.5 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN063310.D
 Acq: 11 Sep 2020 13:30

Tgt Ion: 114 Resp: 701757
 Ion Ratio Lower Upper
 114 100
 63 22.7 0.0 46.0
 88 16.2 0.0 32.8

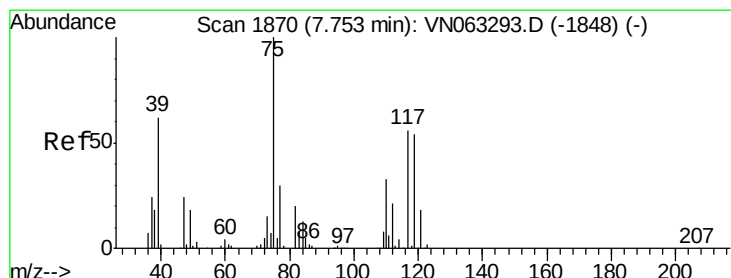
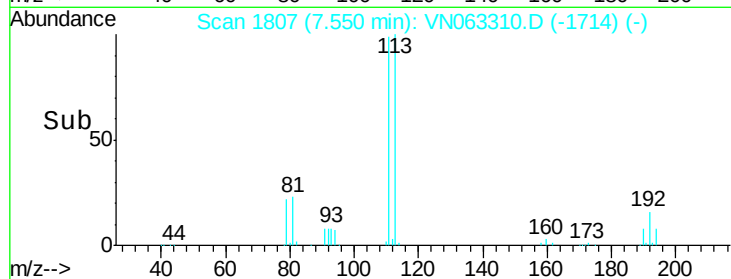
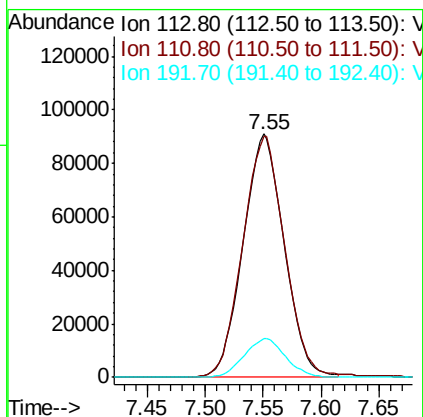
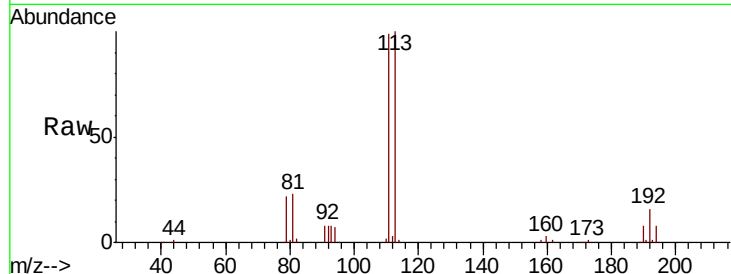




#35
 Dibromofluoromethane
 Concen: 49.539 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. -0.00 min
 Lab File: VN063310.D
 Acq: 11 Sep 2020 13:30

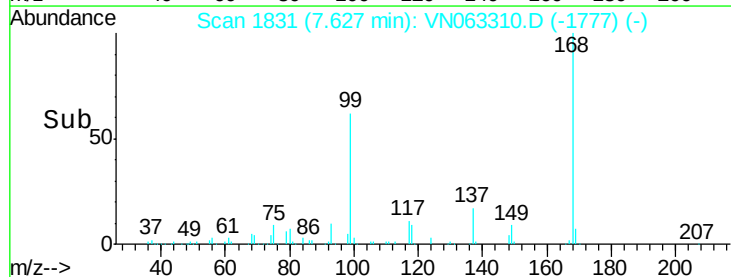
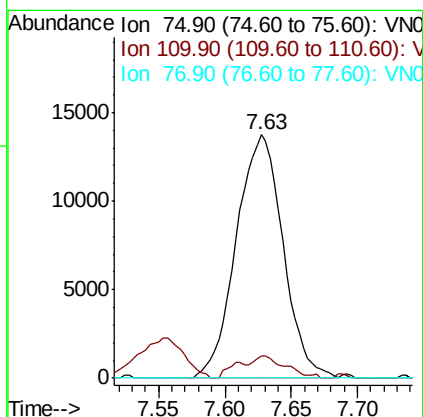
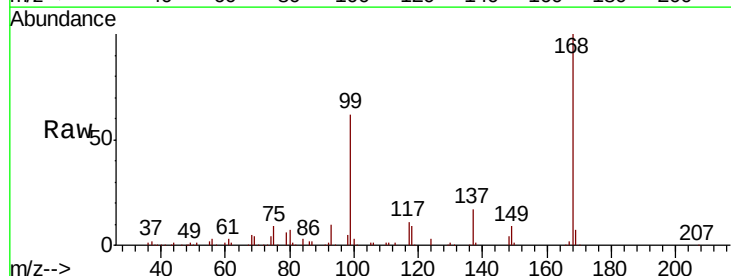
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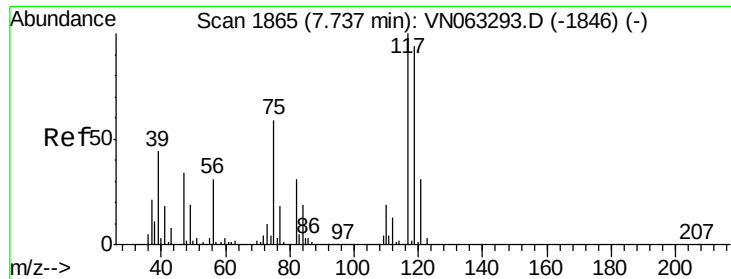
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.8	82.2	123.2
192	16.0	12.9	19.3



#36
 1,1-Dichloropropene
 Concen: 4.682 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN063310.D
 Acq: 11 Sep 2020 13:30

Tgt Ion	Ratio	Lower	Upper
75	100		
110	6.3	16.4	49.4#
77	0.0	24.8	37.2#





#38

Carbon Tetrachloride

Concen: 5.576 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN063310.D

Acq: 11 Sep 2020 13:30

Instrument :

MSVOA_N

ClientSampleId :

TB03-20200908

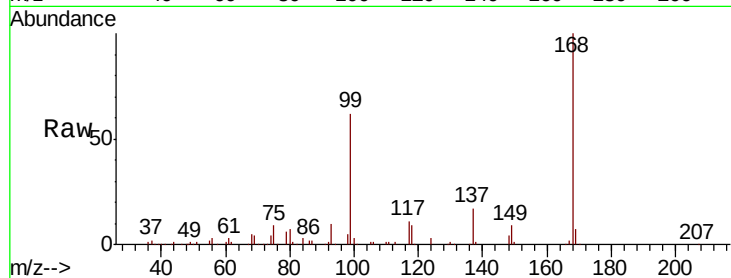
Tot Ion:117 Resp: 39587

Ion Ratio Lower Upper

117 100

119 3.6 75.3 112.9#

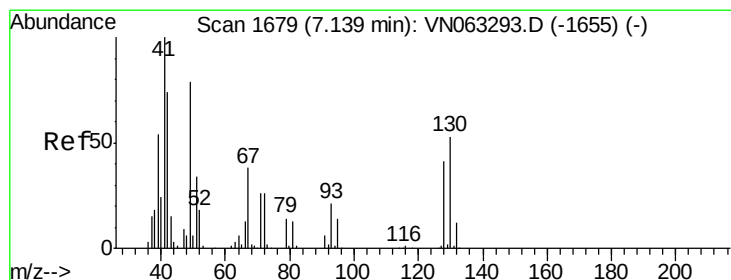
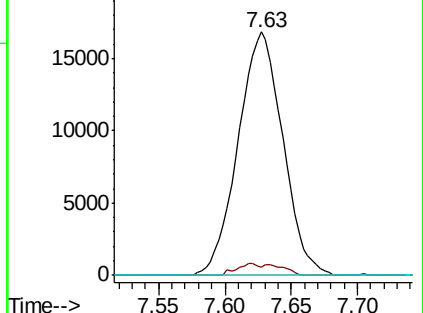
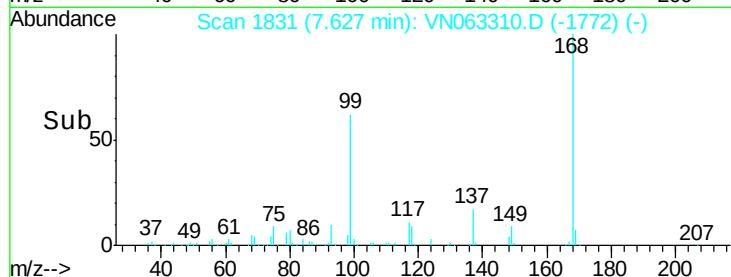
121 0.0 24.6 37.0#



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



#41

Methacrylonitrile

Concen: 0.237 ug/l

RT: 7.16 min Scan# 1685

Delta R.T. 0.02 min

Lab File: VN063310.D

Acq: 11 Sep 2020 13:30

Tgt Ion: 41 Resp: 762

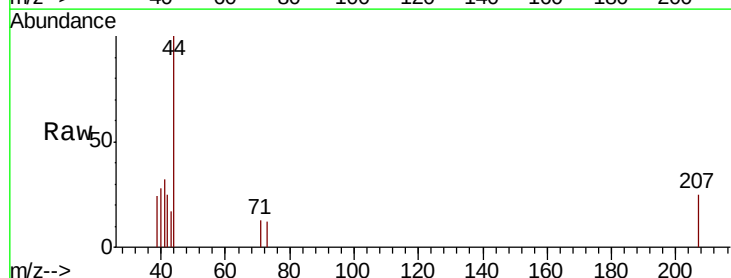
Ion Ratio Lower Upper

41 100

39 65.4 0.0 0.0#

67 0.0 0.0 0.0

52 0.0 0.0 0.0

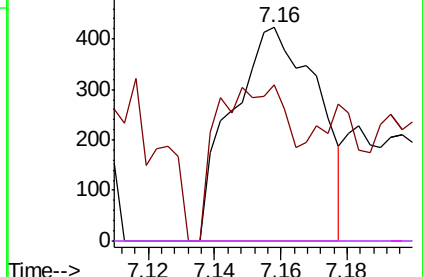
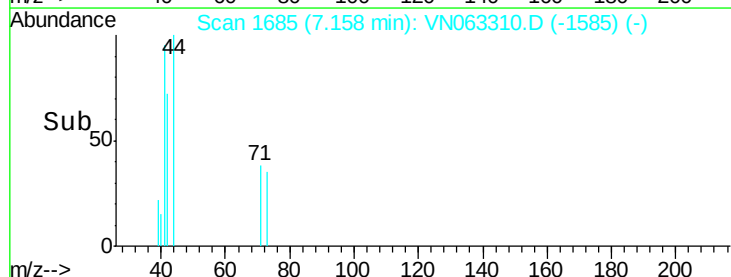


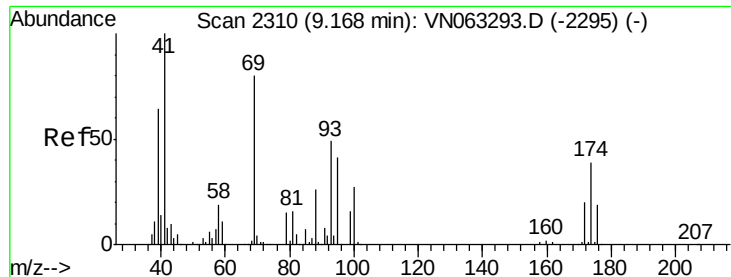
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V

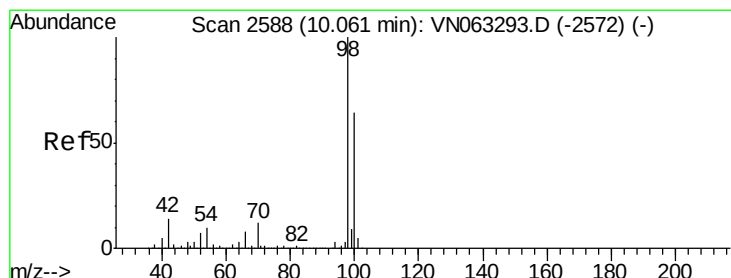
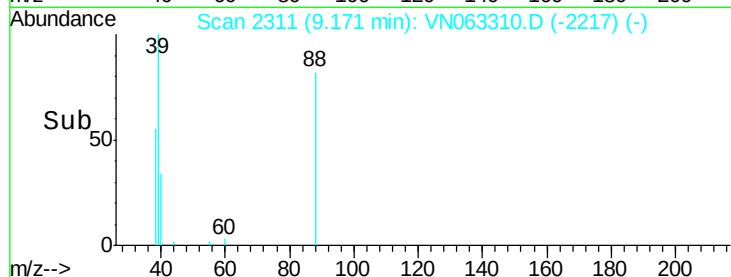
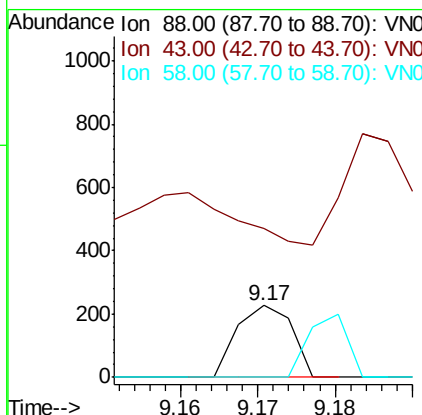
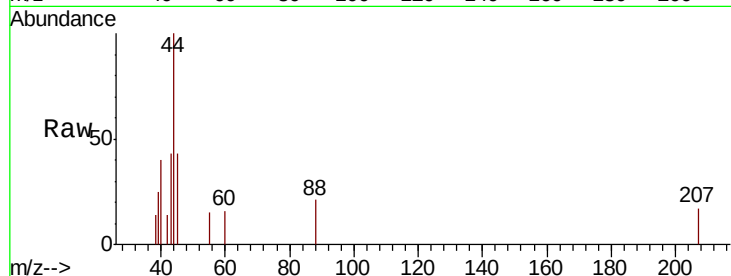




#49
1,4-Dioxane
Concen: 1.261 ug/l
RT: 9.17 min Scan# 2311
Delta R.T. 0.00 min
Lab File: VN063310.D
Acq: 11 Sep 2020 13:30

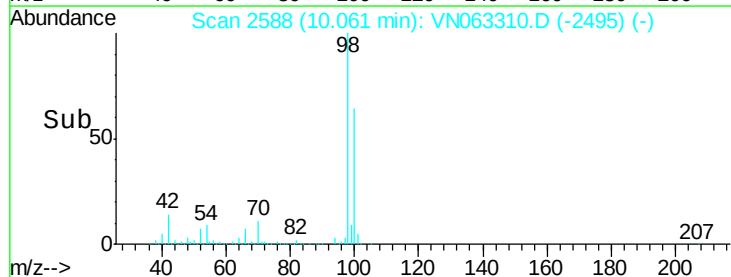
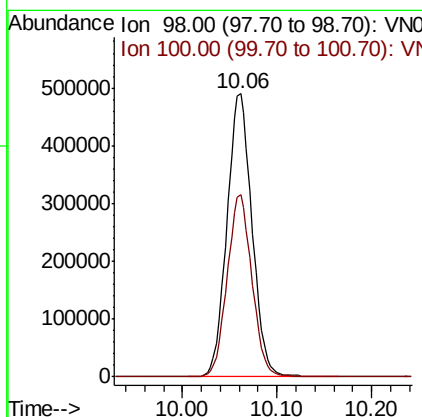
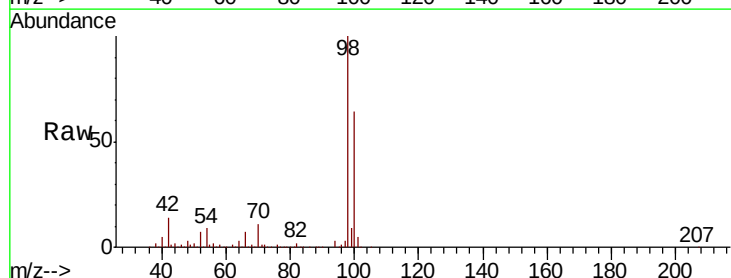
Instrument :
MSVOA_N
ClientSampleId :
TB03-20200908

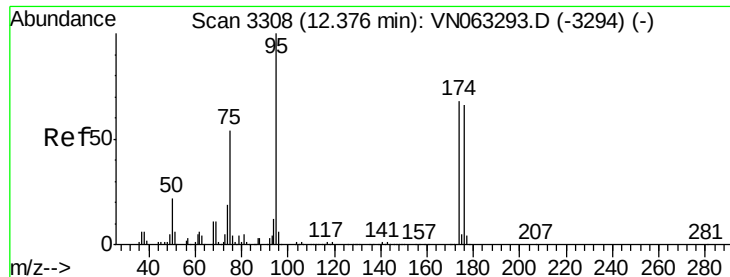
Tot Ion: 88 Resp: 112
Ion Ratio Lower Upper
88 100
43 192.0 30.5 45.7#
58 61.6 58.9 88.3



#50
Toluene-d8
Concen: 51.938 ug/l
RT: 10.06 min Scan# 2588
Delta R.T. -0.00 min
Lab File: VN063310.D
Acq: 11 Sep 2020 13:30

Tgt Ion: 98 Resp: 901098
Ion Ratio Lower Upper
98 100
100 63.5 50.7 76.1





#62

4-Bromofluorobenzene

Concen: 51.441 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063310.D

Acq: 11 Sep 2020 13:30

Instrument :

MSVOA_N

ClientSampled :

TB03-20200908

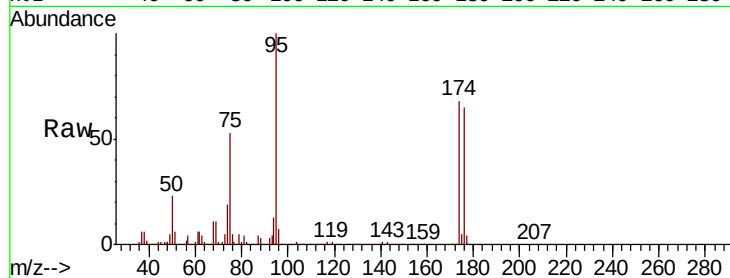
Tot Ion: 95 Resp: 329633

Ion Ratio Lower Upper

95 100

174 69.1 0.0 136.6

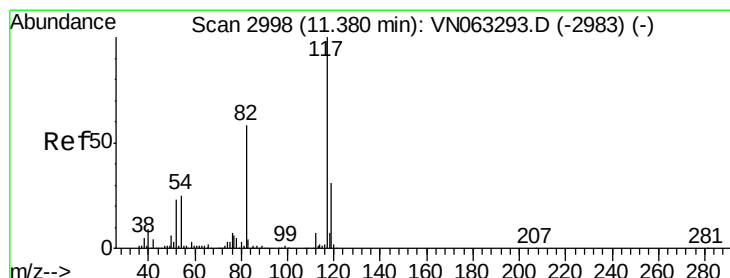
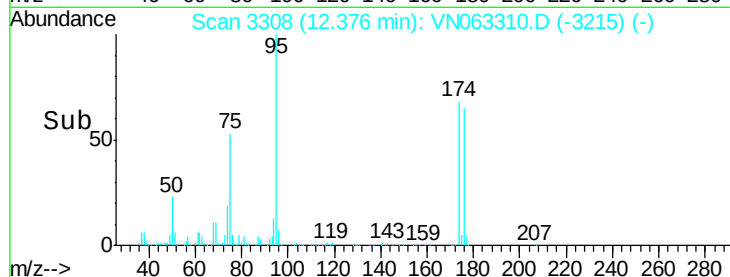
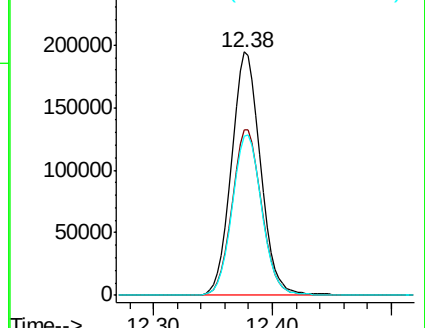
176 66.9 0.0 132.8



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. -0.00 min

Lab File: VN063310.D

Acq: 11 Sep 2020 13:30

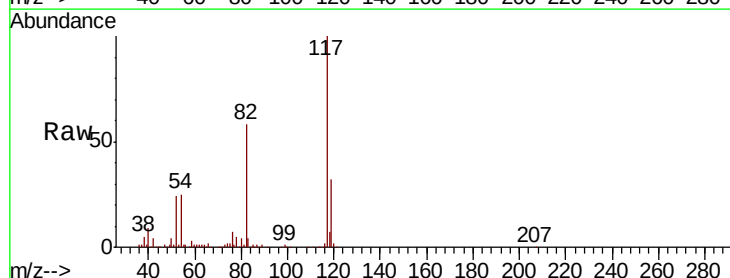
Tgt Ion: 117 Resp: 678932

Ion Ratio Lower Upper

117 100

82 57.7 46.4 69.6

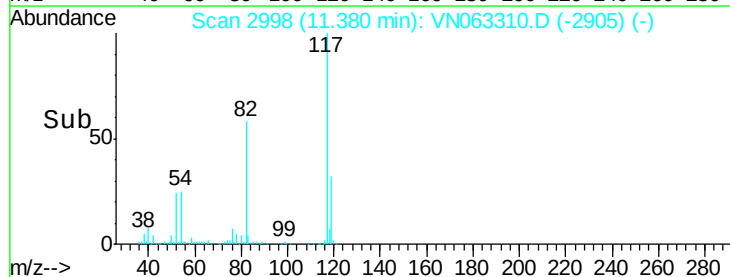
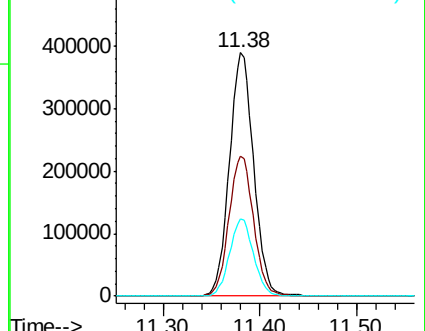
119 31.8 24.8 37.2

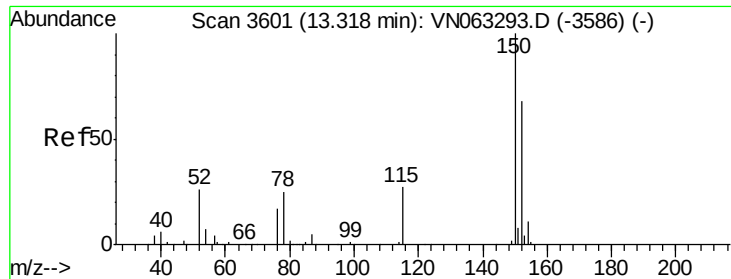


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. -0.00 min

Lab File: VN063310.D

Acq: 11 Sep 2020 13:30

Instrument :

MSVOA_N

ClientSampleId :

TB03-20200908

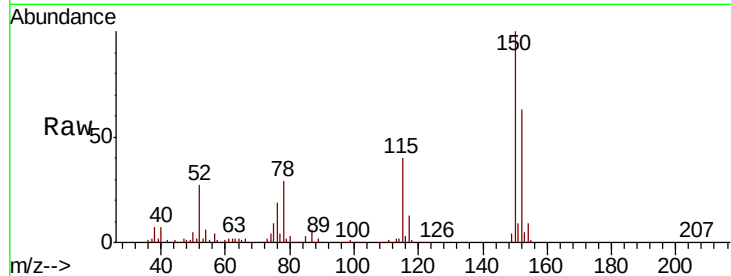
Tot Ion:152 Resp: 275159

Ion Ratio Lower Upper

152 100

115 62.8 31.5 94.5

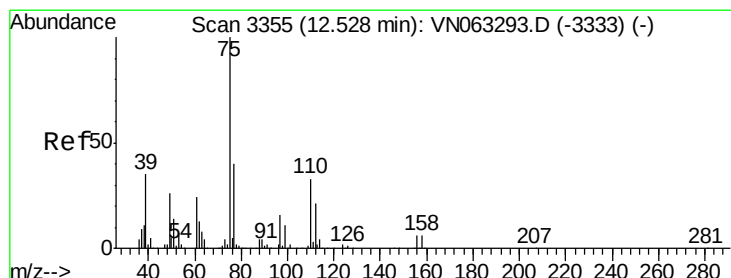
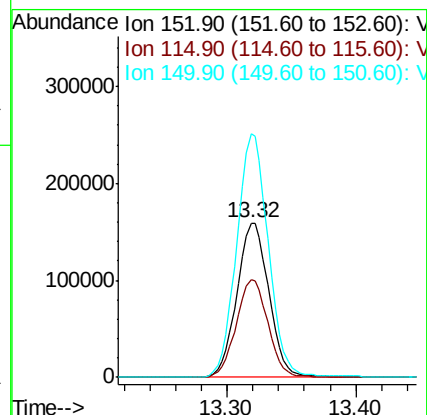
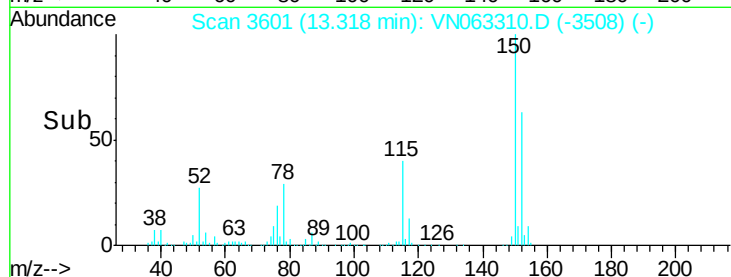
150 155.5 0.0 344.0



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: 29.407 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063310.D

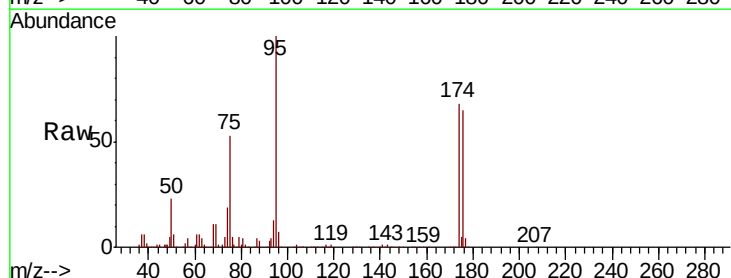
Acq: 11 Sep 2020 13:30

Tgt Ion: 75 Resp: 178513

Ion Ratio Lower Upper

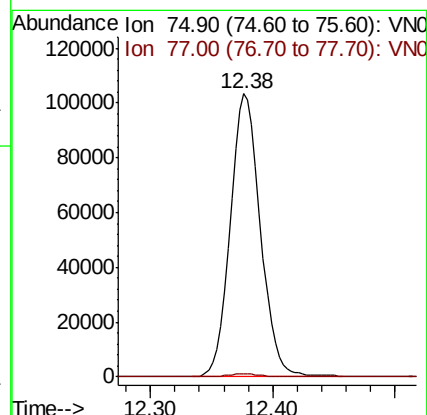
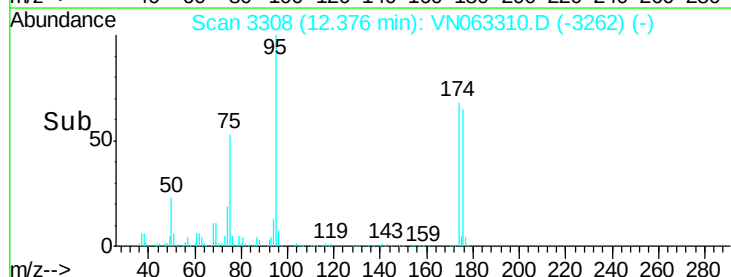
75 100

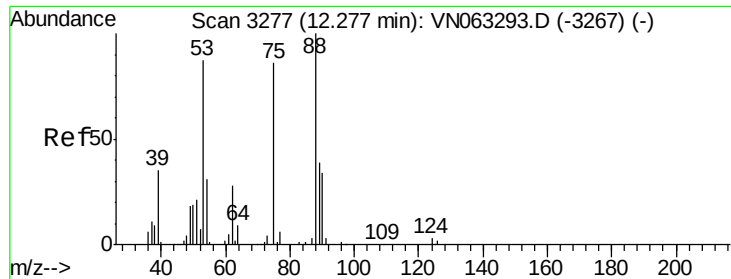
77 1.2 0.0 0.0#



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: 79.011 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063310.D

Acq: 11 Sep 2020 13:30

Instrument :

MSVOA_N

ClientSampleId :

TB03-20200908

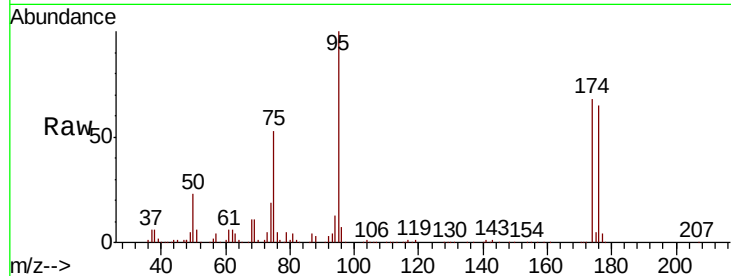
Tot Ion: 75 Resp: 178513

Ion Ratio Lower Upper

75 100

53 0.0 81.8 122.8#

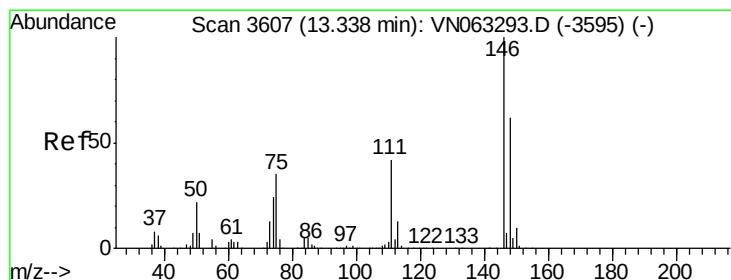
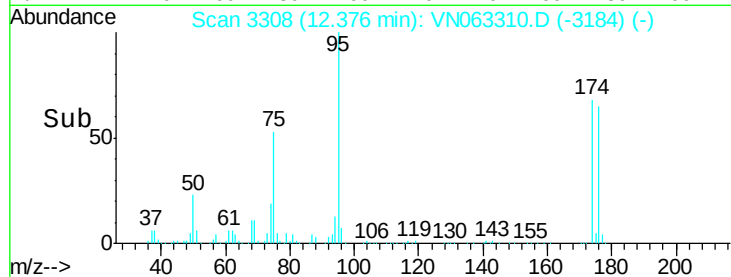
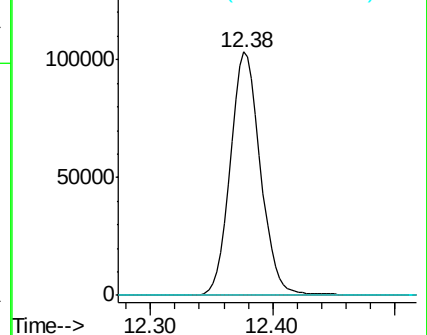
89 0.0 36.7 55.1#



Abundance Ion 74.90 (74.60 to 75.60): VN063310.D (-3184) (-)

Ion 53.00 (52.70 to 53.70): VN063310.D (-3184) (-)

Ion 88.90 (88.60 to 89.60): VN063310.D (-3184) (-)



#88

1,4-Dichlorobenzene

Concen: Below Cal

RT: 13.33 min Scan# 3606

Delta R.T. -0.00 min

Lab File: VN063310.D

Acq: 11 Sep 2020 13:30

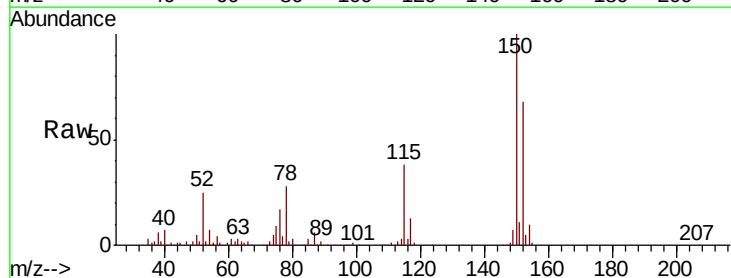
Tgt Ion: 146 Resp: 870

Ion Ratio Lower Upper

146 100

111 0.0 21.3 64.0#

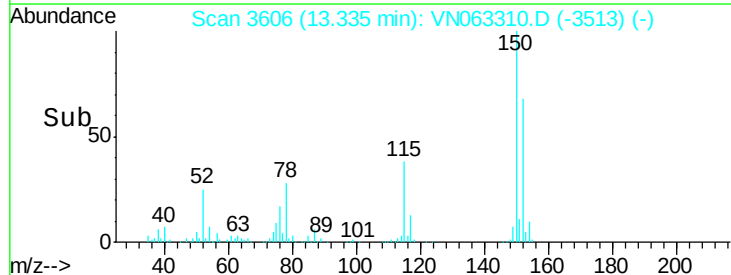
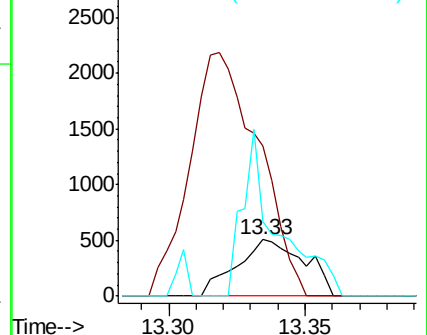
148 154.1 31.5 94.5#

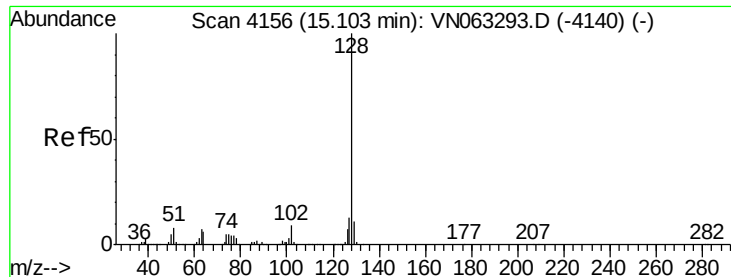


Abundance Ion 145.90 (145.60 to 146.60): VN063310.D (-3513) (-)

Ion 110.90 (110.60 to 111.60): VN063310.D (-3513) (-)

Ion 147.90 (147.60 to 148.60): VN063310.D (-3513) (-)





#95

Naphthalene

Concen: Below Cal

RT: 15.11 min Scan# 4159

Delta R.T. 0.01 min

Lab File: VN063310.D

Acq: 11 Sep 2020 13:30

Instrument :

MSVOA_N

ClientSampleId :

TB03-20200908

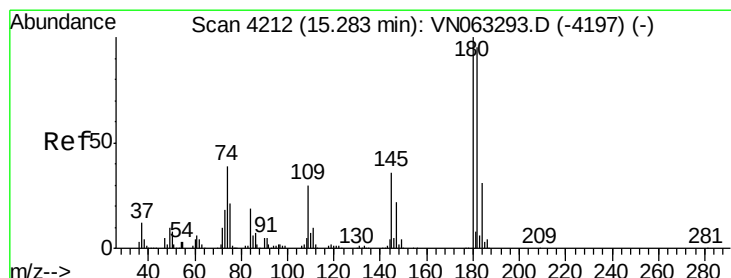
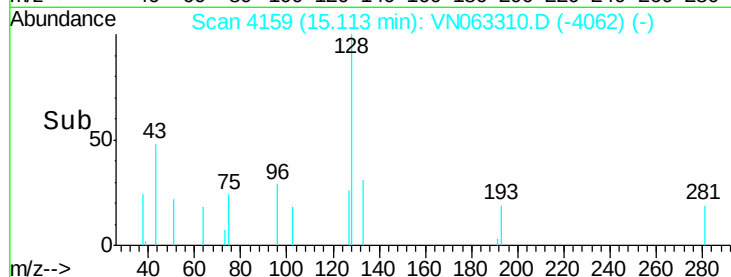
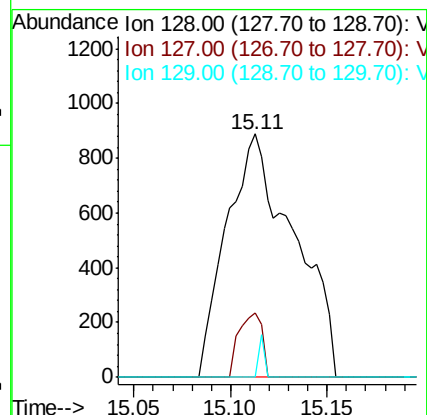
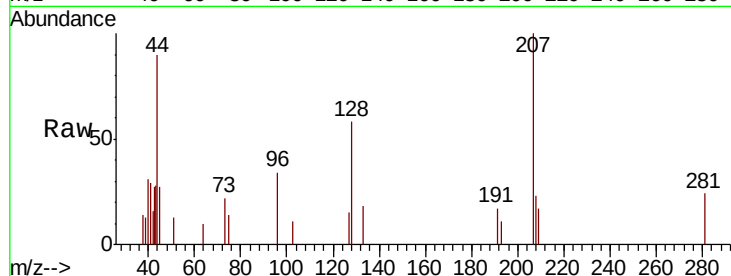
Tot Ion:128 Resp: 2151

Ion Ratio Lower Upper

128 100

127 8.8 10.3 15.5#

129 1.4 8.6 12.8#



#96

1,2,3-Trichlorobenzene

Concen: Below Cal

RT: 15.29 min Scan# 4214

Delta R.T. 0.01 min

Lab File: VN063310.D

Acq: 11 Sep 2020 13:30

Tgt Ion:180 Resp: 171

Ion Ratio Lower Upper

180 100

182 0.0 47.4 142.3#

145 17.5 17.2 51.6

