

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN062520\
 Data File : VN062125.D
 Acq On : 25 Jun 2020 20:54
 Operator : JC/MD
 Sample : L3043-19
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE120D2-20200615

Quant Time: Jun 26 01:53:43 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N062420W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 24 15:33:00 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	244585	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	447420	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	431989	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	161005	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	158029	46.04	ug/l	0.00
Spiked Amount			Recovery	=	92.08%	
35) Dibromofluoromethane	7.55	113	138716	48.33	ug/l	0.00
Spiked Amount			Recovery	=	96.66%	
50) Toluene-d8	10.06	98	559466	48.76	ug/l	0.00
Spiked Amount			Recovery	=	97.52%	
62) 4-Bromofluorobenzene	12.38	95	184191	47.51	ug/l	0.00
Spiked Amount			Recovery	=	95.02%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.84	85	991	0.358	ug/l	93
3) Chloromethane	2.03	50	870	Below Cal		90
9) 1,1,2-Trichlorotrifluoroet	3.72	101	65766	23.410	ug/l	100
12) 1,1-Dichloroethene	3.70	96	4995	1.779	ug/l	91
14) Allyl chloride	4.03	41	1655	0.433	ug/l #	70
16) Acetone	3.78	43	4951	0.553	ug/l	97
20) Methylene Chloride	4.50	84	243	Below Cal	#	61
24) 1,1-Dichloroethane	5.80	63	2944	0.525	ug/l #	82
27) cis-1,2-Dichloroethene	6.79	96	10884	3.023	ug/l	87
30) Chloroform	7.33	83	3098	0.543	ug/l	86
31) Cyclohexane	7.62	56	5159	1.088	ug/l #	33
36) 1,1-Dichloropropene	7.62	75	18418	4.095	ug/l #	49
38) Carbon Tetrachloride	7.73	117	2911	0.687	ug/l	97
39) Methylcyclohexane	8.80	83	27943	5.671	ug/l #	1
44) Trichloroethene	8.80	130	2335617	675.476	ug/l	99
49) 1,4-Dioxane	9.17	88	914	15.142	ug/l #	76
51) 4-Methyl-2-Pentanone	10.06	43	2129	0.600	ug/l #	1
55) 1,1,2-Trichloroethane	10.53	97	705	0.214	ug/l #	86
60) Dibromochloromethane	10.60	129	18262	5.247	ug/l #	10
64) Tetrachloroethene	10.60	164	19691	6.673	ug/l	95
71) Bromoform	12.37	173	1701	0.729	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	91996	24.272	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	91996	70.884	ug/l #	13
95) Naphthalene	15.10	128	235	4.023	ug/l #	69

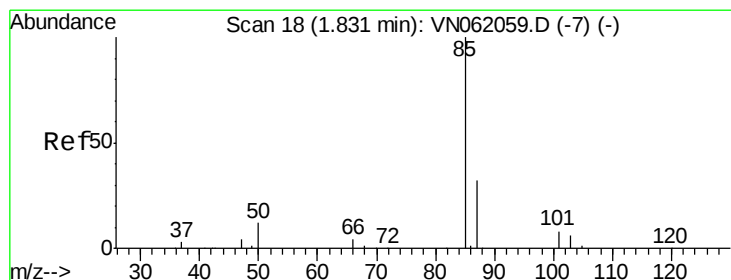
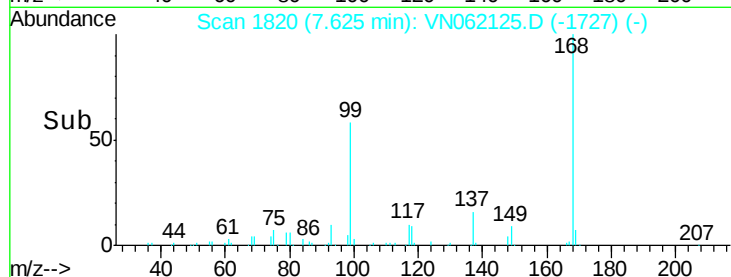
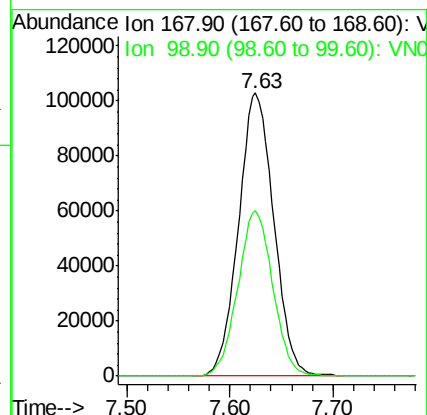
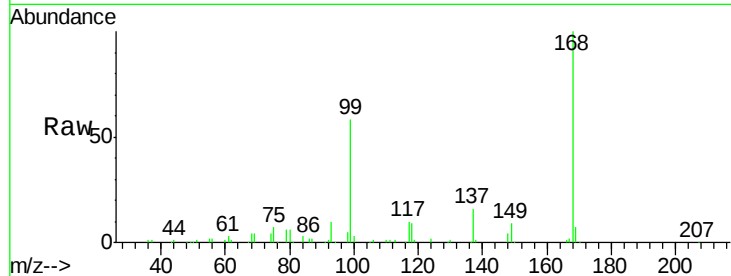
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. -0.00 min
Lab File: VN062125.D
Acq: 25 Jun 2020 20:54

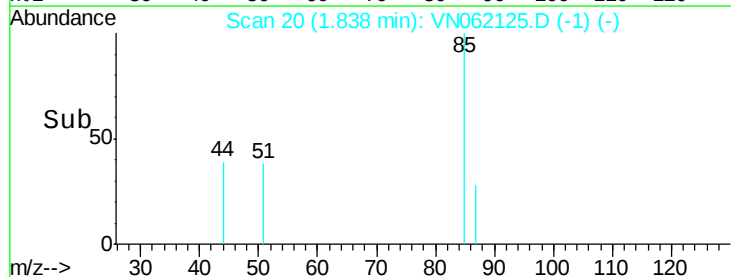
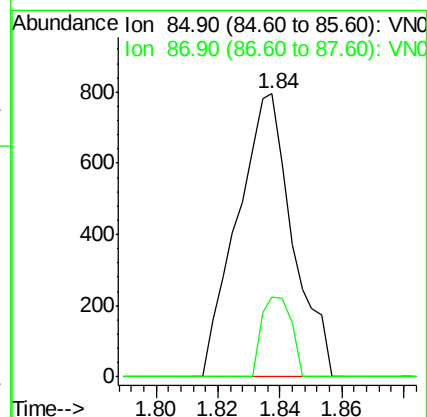
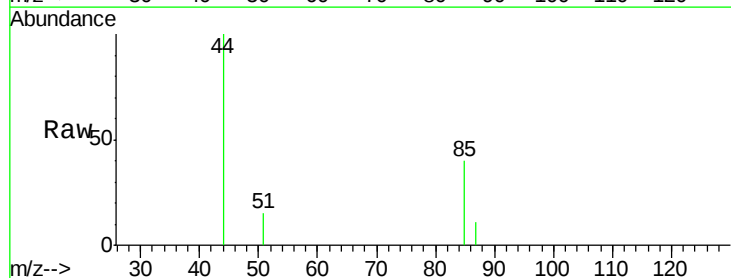
Instrument :
MSVOA_N
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RE120D2-20200615

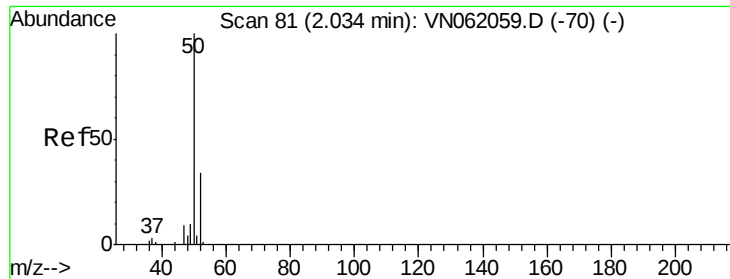
Tgt Ion: 168 Resp: 244585
Ion Ratio Lower Upper
168 100
99 58.4 45.8 68.8



#2
Dichlorodifluoromethane
Concen: 0.358 ug/l
RT: 1.84 min Scan# 20
Delta R.T. 0.01 min
Lab File: VN062125.D
Acq: 25 Jun 2020 20:54

Tgt Ion: 85 Resp: 991
Ion Ratio Lower Upper
85 100
87 28.2 15.9 47.7





#3

Chloromethane

Concen: Below Cal

RT: 2.03 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN062125.D

Acq: 25 Jun 2020 20:54

Instrument :

MSVOA_N

ClientSampleId :

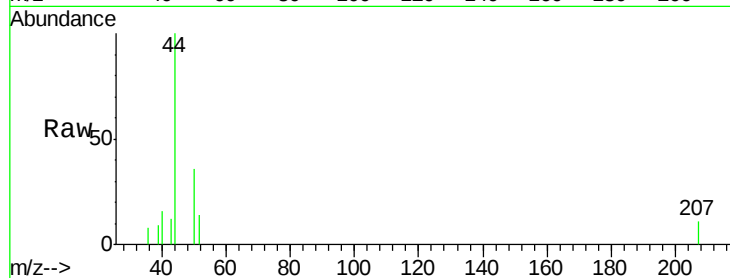
RE120D2-20200615

Tgt Ion: 50 Resp: 870

Ion Ratio Lower Upper

50 100

52 39.6 27.0 40.6



Abundance Ion 49.90 (49.60 to 50.60): VN062125.D (-1) (-)

Ion 51.90 (51.60 to 52.60): VN062125.D (-1) (-)

2.03

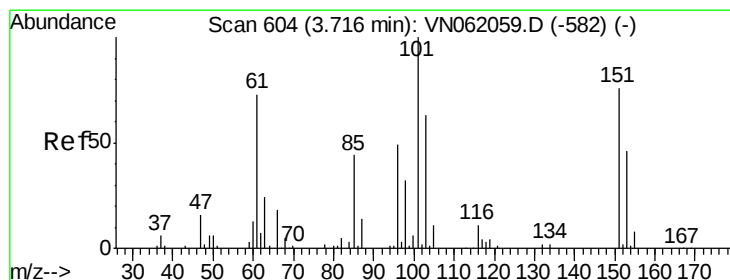
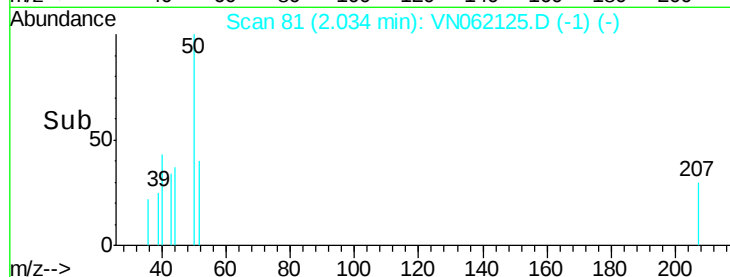
600

400

200

0

Time-->



#9

1,1,2-Trichlorotrifluoroethane

Concen: 23.410 ug/l

RT: 3.72 min Scan# 606

Delta R.T. 0.01 min

Lab File: VN062125.D

Acq: 25 Jun 2020 20:54

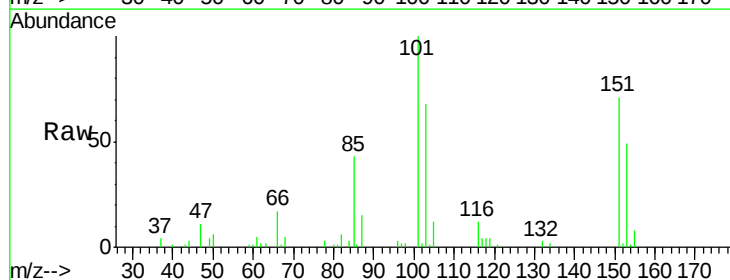
Tgt Ion: 101 Resp: 65766

Ion Ratio Lower Upper

101 100

85 43.5 34.5 51.7

151 72.4 57.8 86.8



Abundance Ion 100.90 (100.60 to 101.60): VN062125.D (-511) (-)

Ion 84.90 (84.60 to 85.60): VN062125.D (-511) (-)

Ion 150.80 (150.50 to 151.50): VN062125.D (-511) (-)

3.72

25000

20000

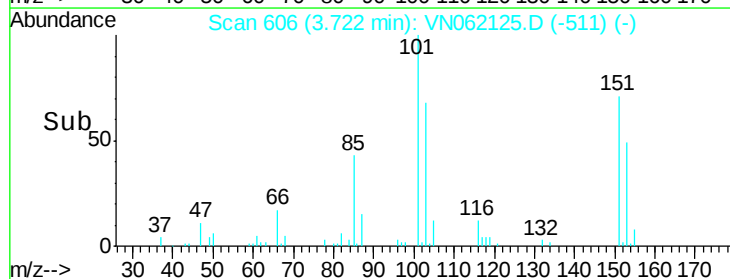
15000

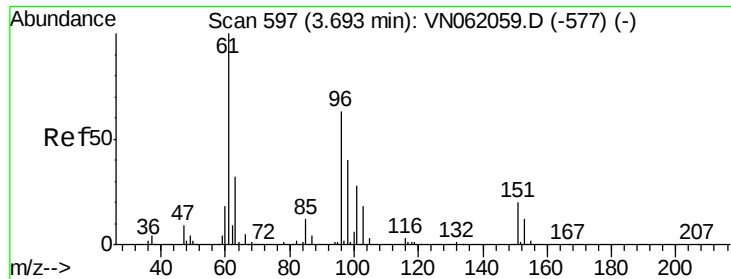
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5000

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Time-->

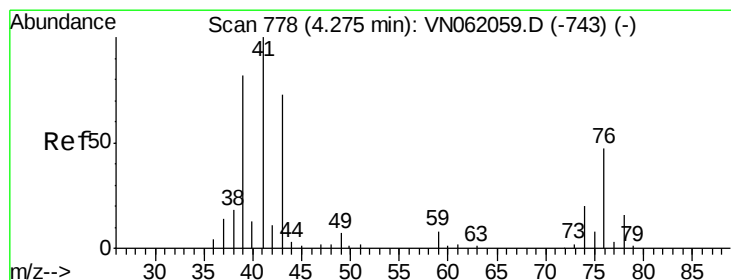
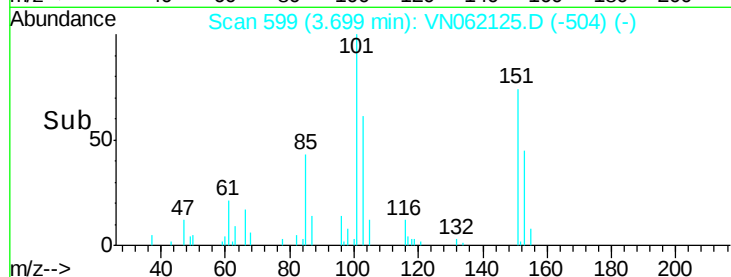
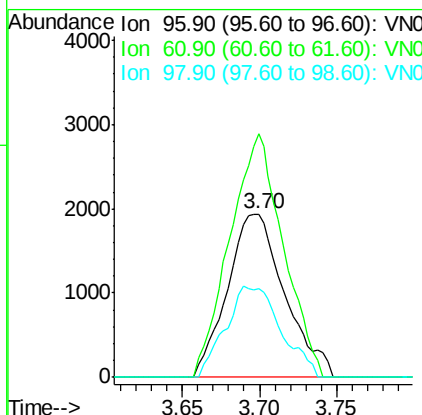
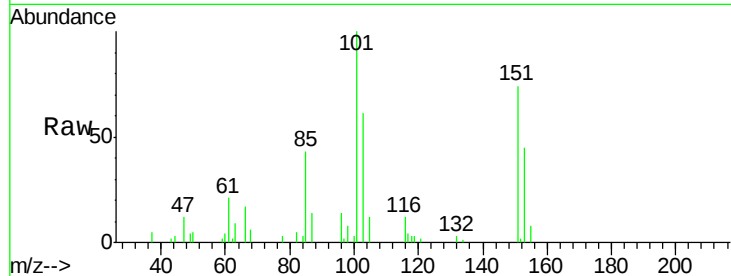




#12
 1,1-Dichloroethene
 Concen: 1.779 ug/l
 RT: 3.70 min Scan# 599
 Delta R.T. 0.01 min
 Lab File: VN062125.D
 Acq: 25 Jun 2020 20:54

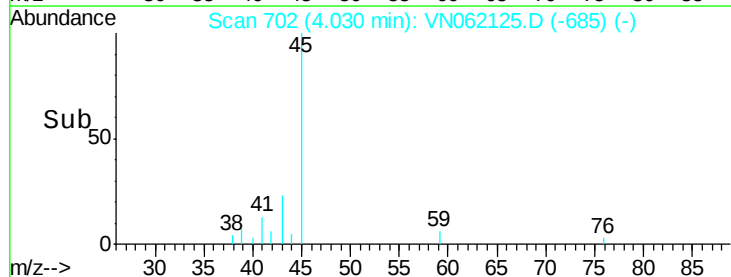
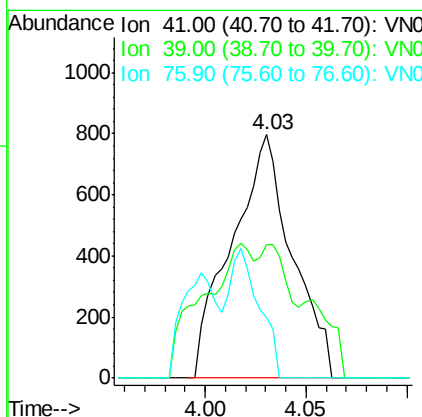
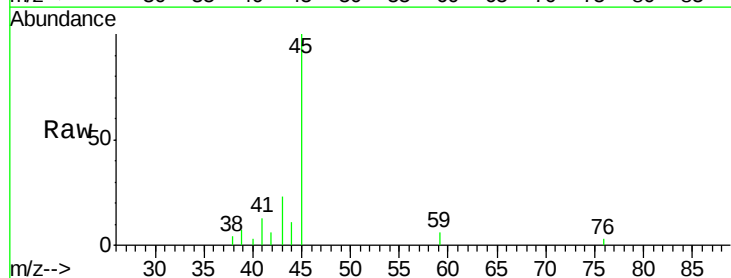
Instrument :
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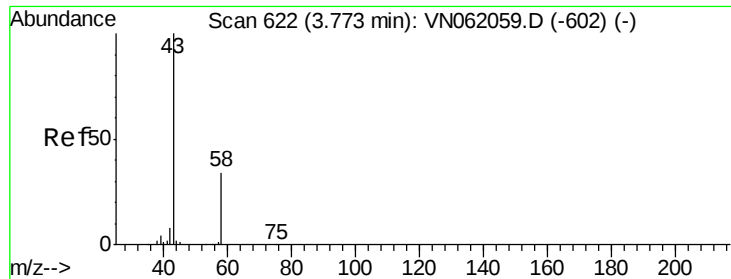
Tgt Ion	Ratio	Lower	Upper
96	100		
61	148.9	126.7	190.1
98	54.3	51.0	76.4



#14
 Allyl chloride
 Concen: 0.433 ug/l
 RT: 4.03 min Scan# 702
 Delta R.T. -0.24 min
 Lab File: VN062125.D
 Acq: 25 Jun 2020 20:54

Tgt Ion	Ratio	Lower	Upper
41	100		
39	46.5	60.0	90.0#
76	26.7	34.1	51.1#





#16

Acetone

Concen: 0.553 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.01 min

Lab File: VN062125.D

Acq: 25 Jun 2020 20:54

Instrument :

MSVOA_N

ClientSampleId :

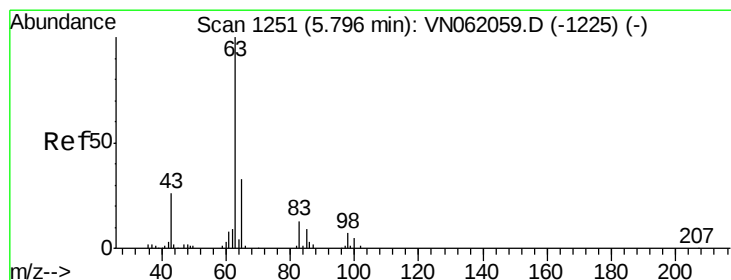
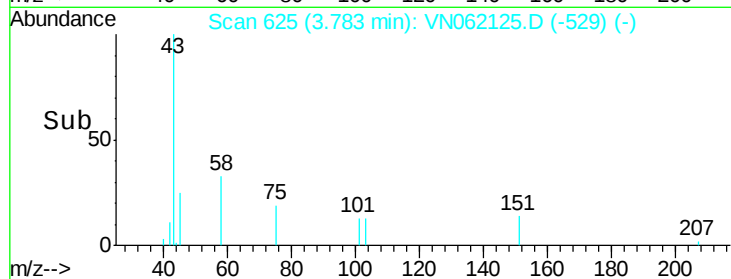
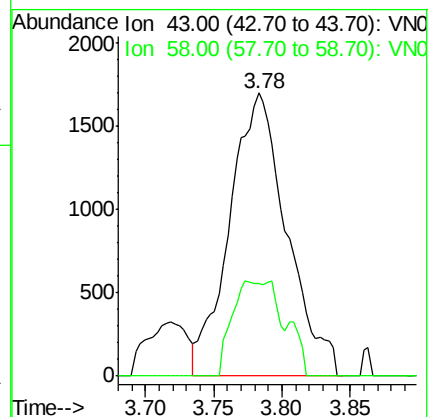
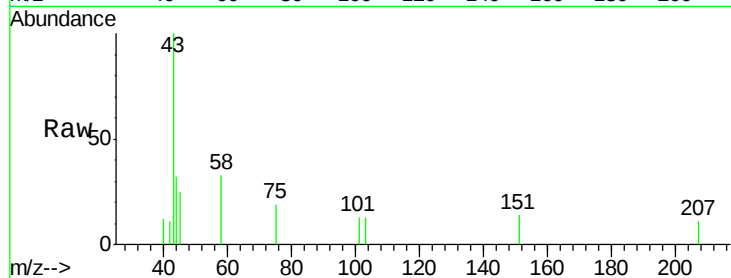
RE120D2-20200615

Tgt Ion: 43 Resp: 4951

Ion Ratio Lower Upper

43 100

58 32.9 27.5 41.3



#24

1,1-Dichloroethane

Concen: 0.525 ug/l

RT: 5.80 min Scan# 1251

Delta R.T. -0.00 min

Lab File: VN062125.D

Acq: 25 Jun 2020 20:54

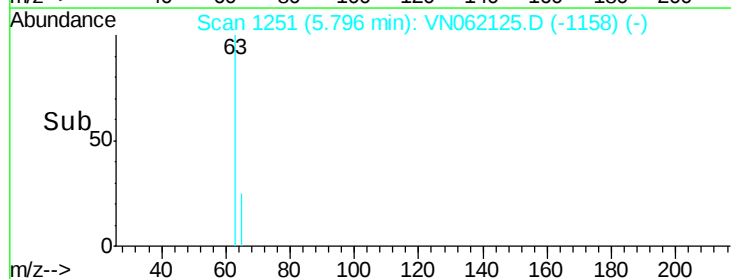
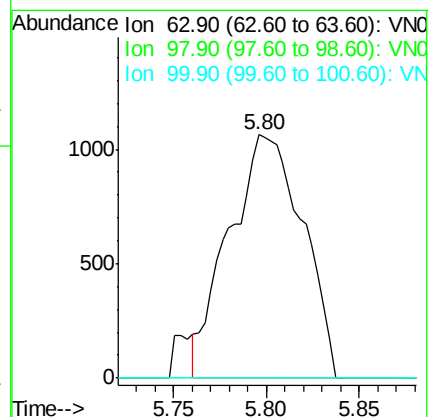
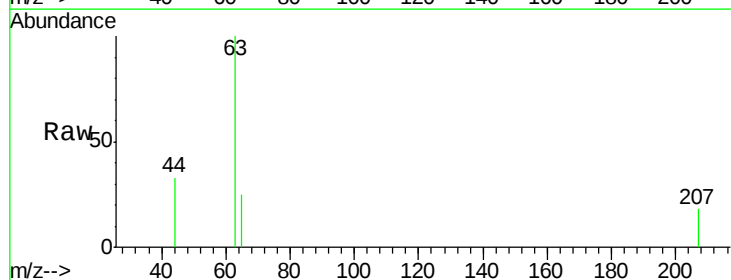
Tgt Ion: 63 Resp: 2944

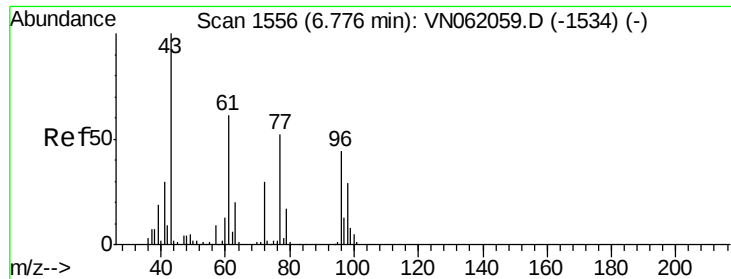
Ion Ratio Lower Upper

63 100

98 0.0 3.6 10.9#

100 0.0 2.4 7.1#

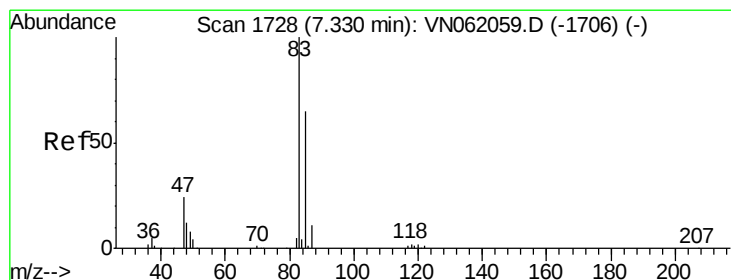
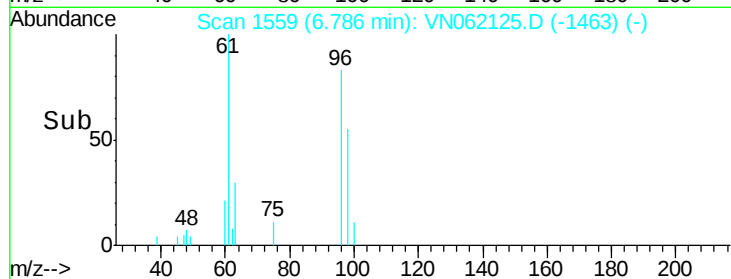
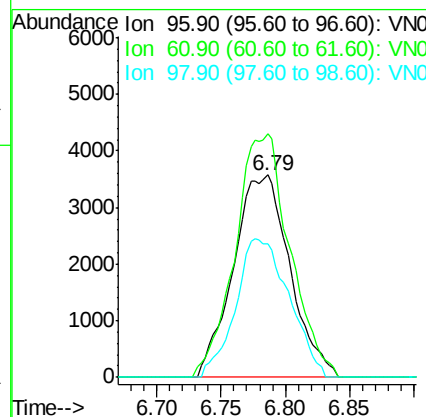
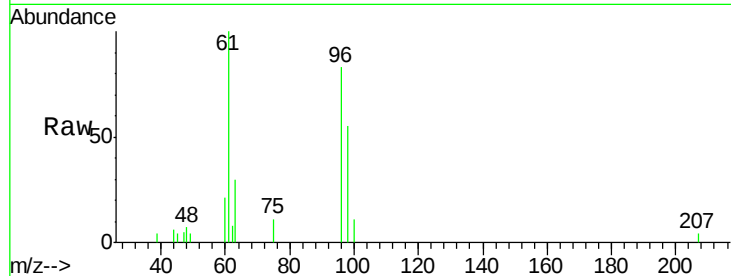




#27
 cis-1,2-Dichloroethene
 Concen: 3.023 ug/l
 RT: 6.79 min Scan# 1559
 Delta R.T. 0.01 min
 Lab File: VN062125.D
 Acq: 25 Jun 2020 20:54

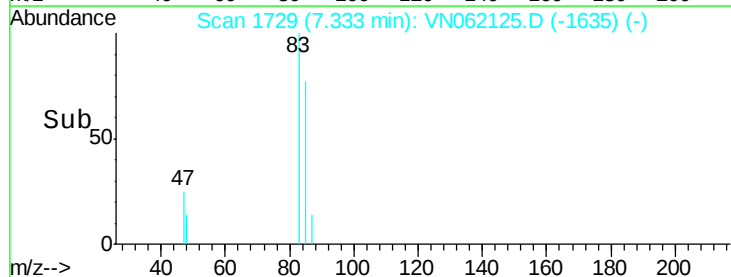
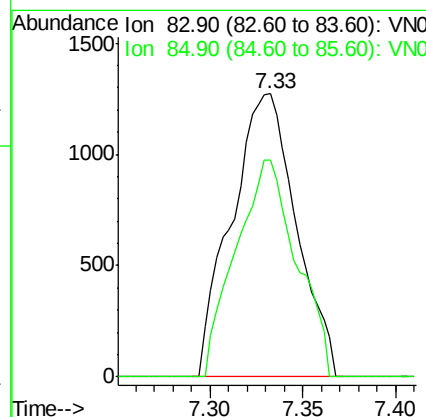
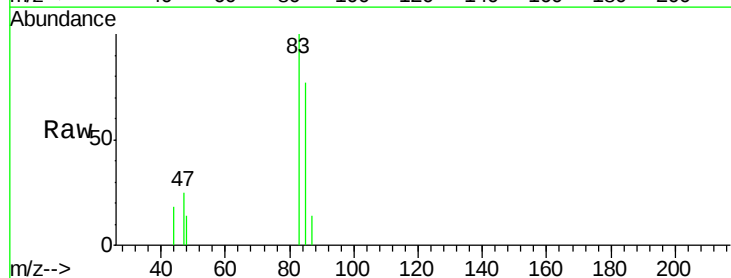
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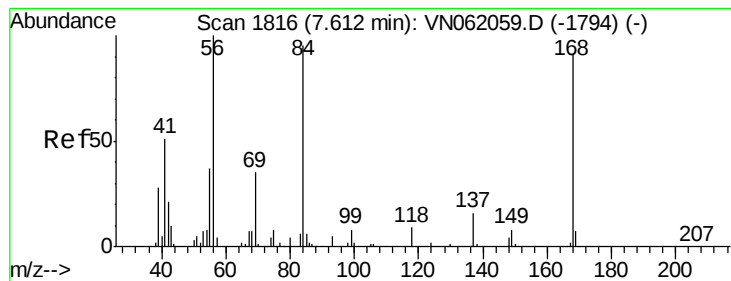
Tgt Ion: 96 Resp: 10884
 Ion Ratio Lower Upper
 96 100
 61 116.5 0.0 280.4
 98 64.6 0.0 129.4



#30
 Chloroform
 Concen: 0.543 ug/l
 RT: 7.33 min Scan# 1729
 Delta R.T. 0.00 min
 Lab File: VN062125.D
 Acq: 25 Jun 2020 20:54

Tgt Ion: 83 Resp: 3098
 Ion Ratio Lower Upper
 83 100
 85 76.6 52.3 78.5





#31

Cyclohexane

Concen: 1.088 ug/l

RT: 7.62 min Scan# 1816

Delta R.T. 0.01 min

Lab File: VN062125.D

Acq: 25 Jun 2020 20:54

Instrument :

MSVOA_N

ClientSampleId :

RE120D2-20200615

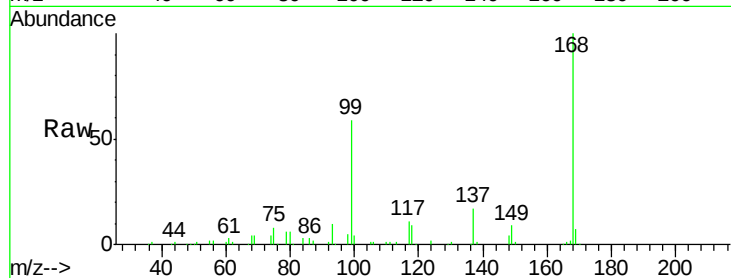
Tgt Ion: 56 Resp: 5159

Ion Ratio Lower Upper

56 100

69 146.6 28.0 42.0#

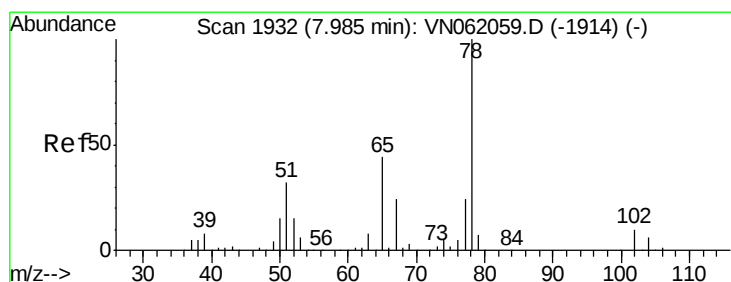
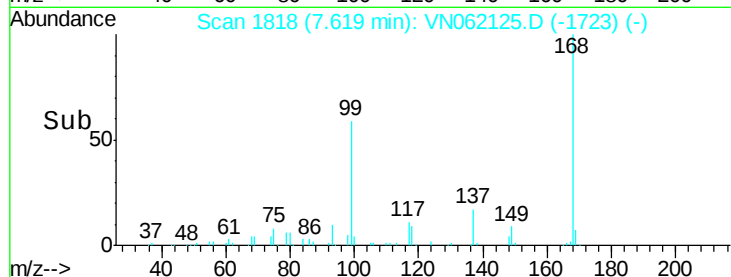
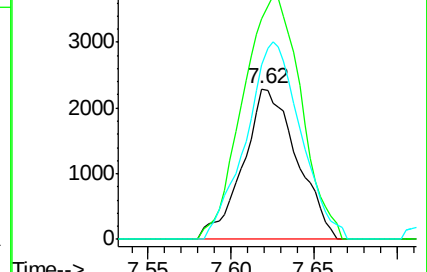
84 116.0 76.1 114.1#



Abundance Ion 56.00 (55.70 to 56.70): VN062125.D (-1794) (-)

Ion 69.00 (68.70 to 69.70): VN062125.D (-1794) (-)

Ion 84.00 (83.70 to 84.70): VN062125.D (-1794) (-)



#33

1,2-Dichloroethane-d4

Concen: 46.041 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. 0.00 min

Lab File: VN062125.D

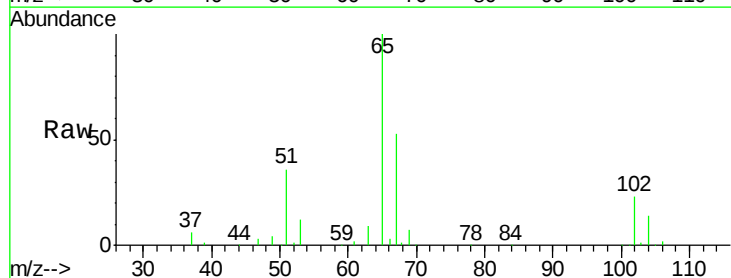
Acq: 25 Jun 2020 20:54

Tgt Ion: 65 Resp: 158029

Ion Ratio Lower Upper

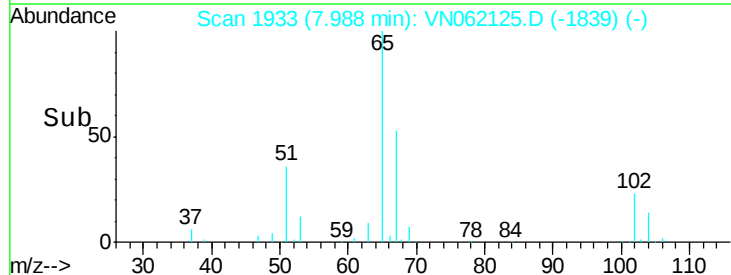
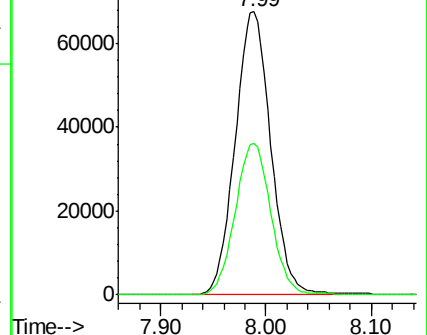
65 100

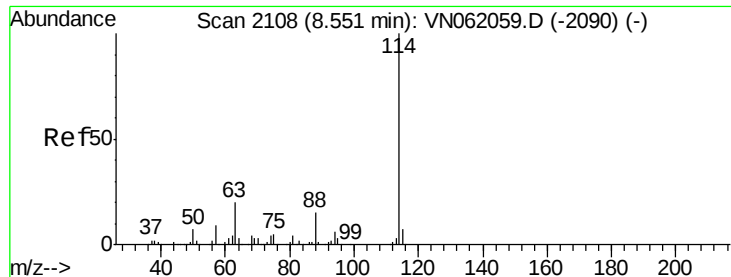
67 53.7 0.0 106.2



Abundance Ion 64.90 (64.60 to 65.60): VN062125.D (-1839) (-)

Ion 66.90 (66.60 to 67.60): VN062125.D (-1839) (-)





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2108

Delta R.T. -0.00 min

Lab File: VN062125.D

Acq: 25 Jun 2020 20:54

Instrument :

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RE120D2-20200615

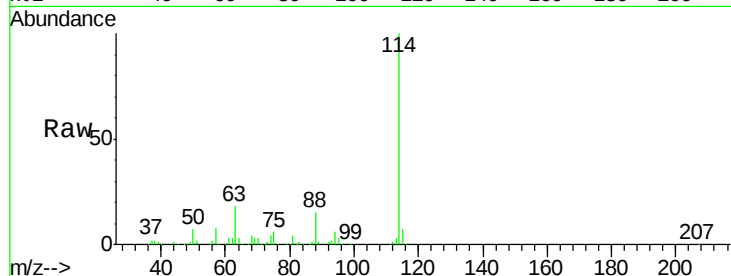
Tgt Ion:114 Resp: 447420

Ion Ratio Lower Upper

114 100

63 18.4 0.0 39.2

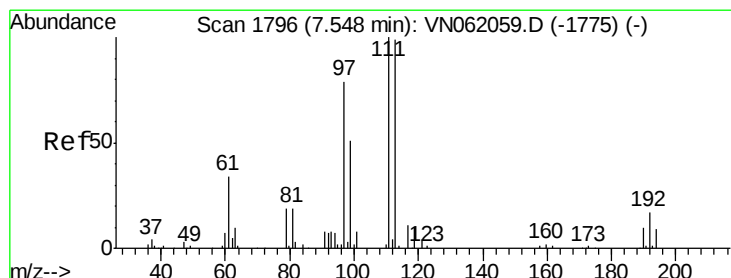
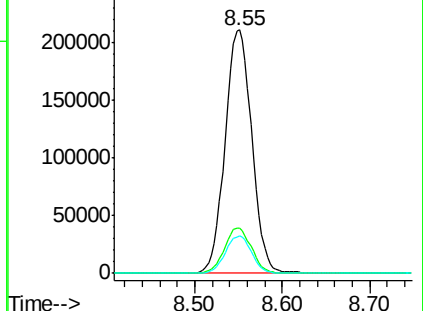
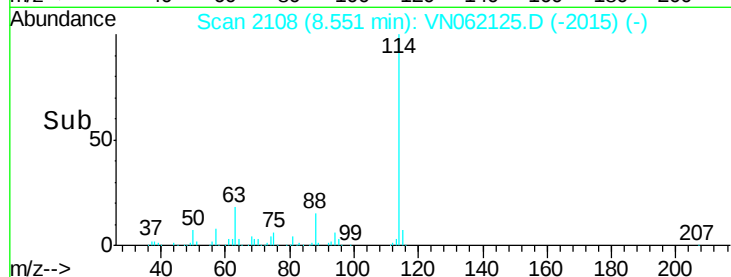
88 15.2 0.0 30.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 48.326 ug/l

RT: 7.55 min Scan# 1796

Delta R.T. -0.00 min

Lab File: VN062125.D

Acq: 25 Jun 2020 20:54

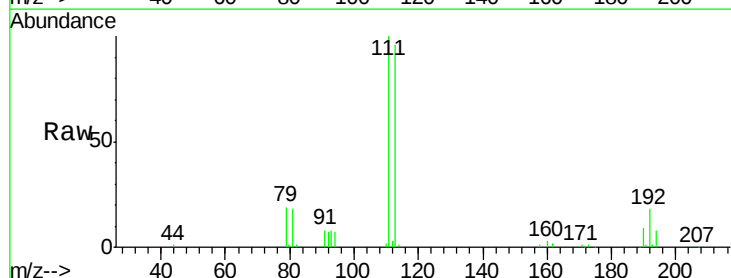
Tgt Ion:113 Resp: 138716

Ion Ratio Lower Upper

113 100

111 103.3 82.2 123.4

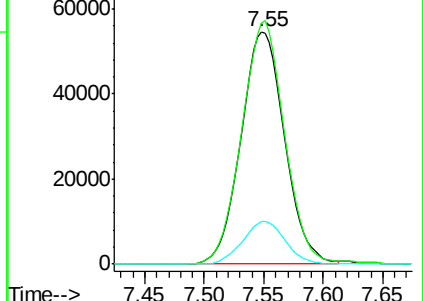
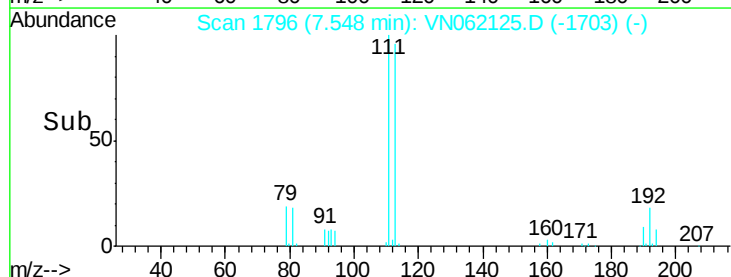
192 18.0 14.0 21.0

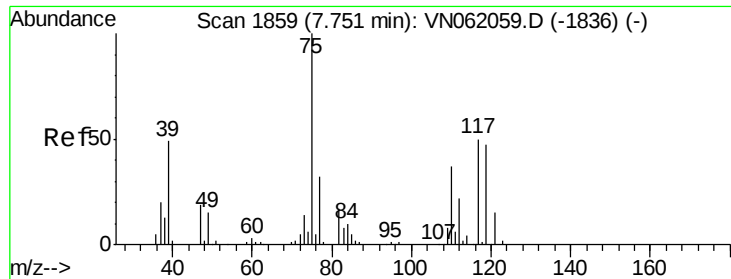


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

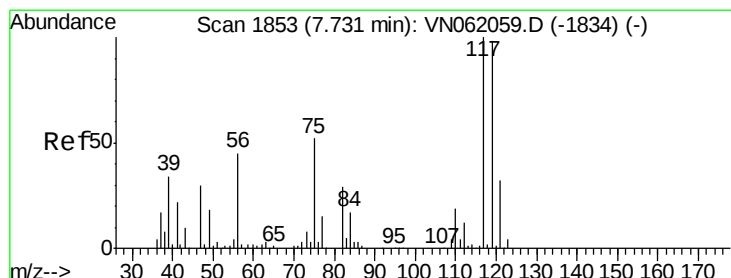
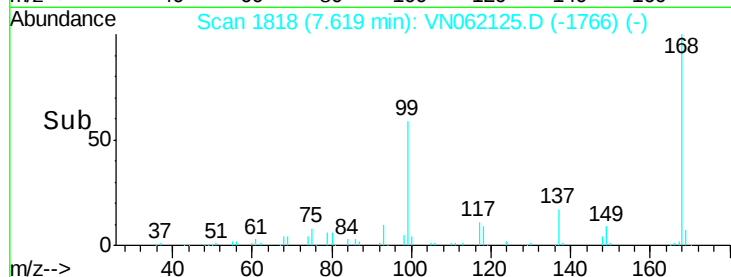
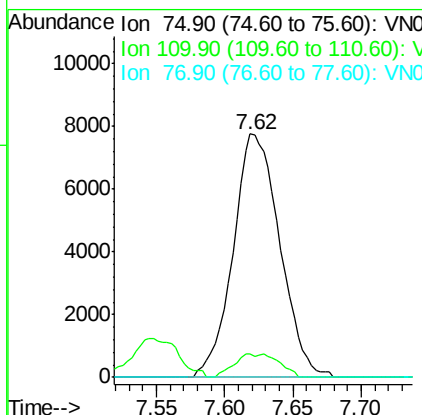
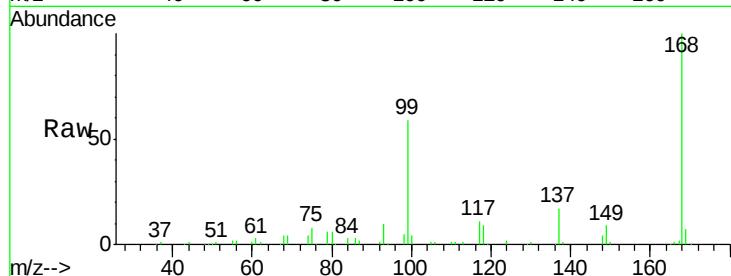




#36
 1,1-Dichloropropene
 Concen: 4.095 ug/l
 RT: 7.62 min Scan# 1818
 Delta R.T. -0.13 min
 Lab File: VN062125.D
 Acq: 25 Jun 2020 20:54

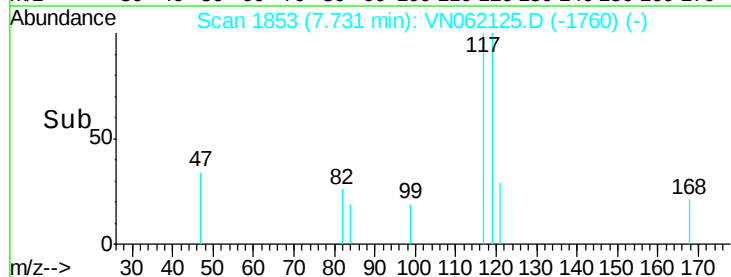
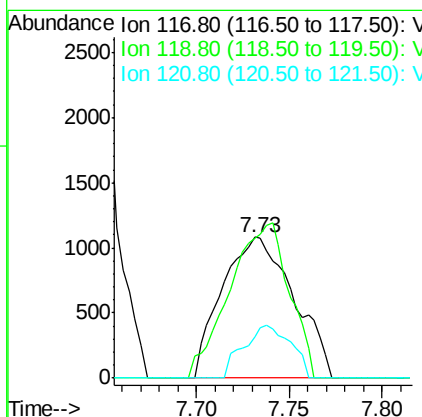
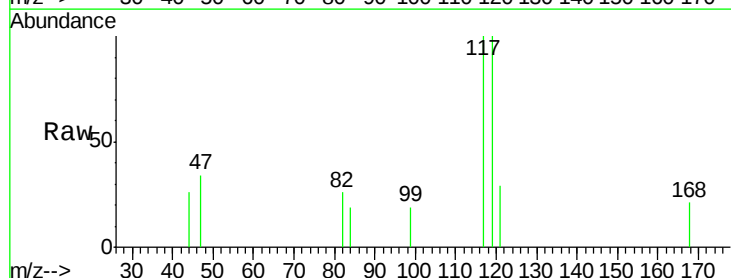
Instrument :
 MSVOA_N
 ClientSampleId :
 RE120D2-20200615

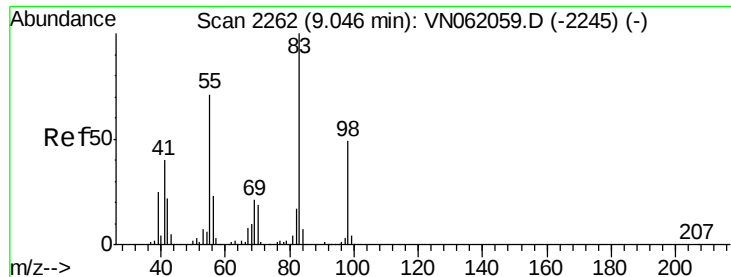
Tgt Ion: 75 Resp: 18418
 Ion Ratio Lower Upper
 75 100
 110 9.2 17.9 53.8#
 77 0.0 24.9 37.3#



#38
 Carbon Tetrachloride
 Concen: 0.687 ug/l
 RT: 7.73 min Scan# 1853
 Delta R.T. -0.00 min
 Lab File: VN062125.D
 Acq: 25 Jun 2020 20:54

Tgt Ion: 117 Resp: 2911
 Ion Ratio Lower Upper
 117 100
 119 99.7 78.2 117.2
 121 29.0 25.8 38.6

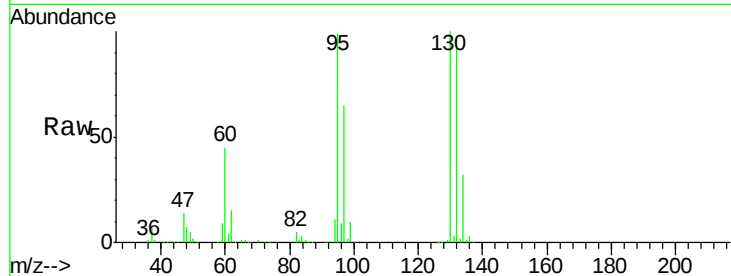




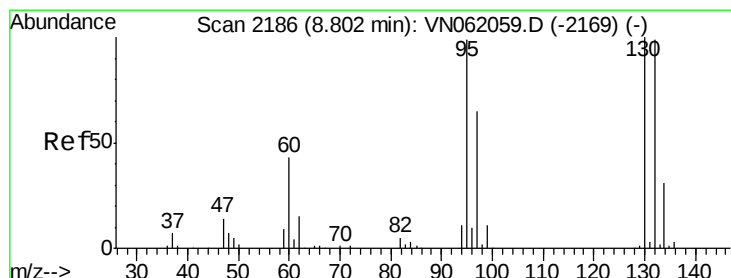
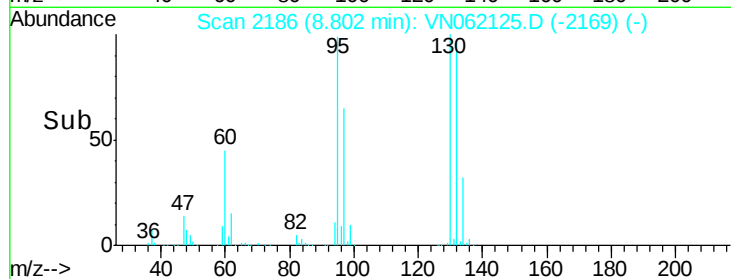
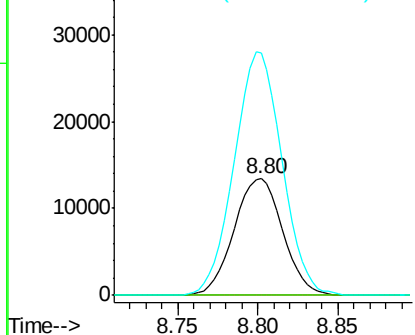
#39
Methylcyclohexane
Concen: 5.671 ug/l
RT: 8.80 min Scan# 2186
Delta R.T. -0.24 min
Lab File: VN062125.D
Acq: 25 Jun 2020 20:54

Instrument :
MSVOA_N
ClientSampleId :
RE120D2-20200615

Tgt Ion: 83 Resp: 27943
Ion Ratio Lower Upper
83 100
55 0.0 57.0 85.6#
98 206.0 39.0 58.6#

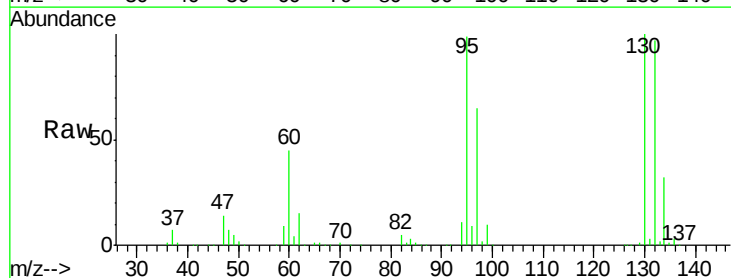


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

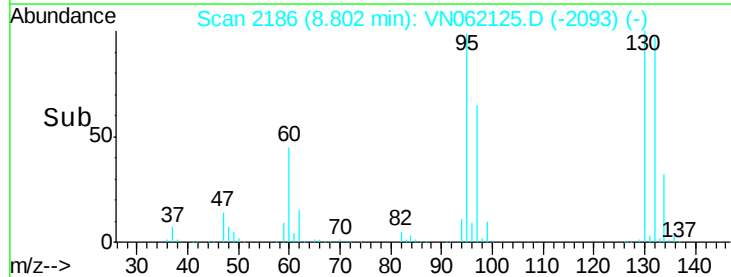
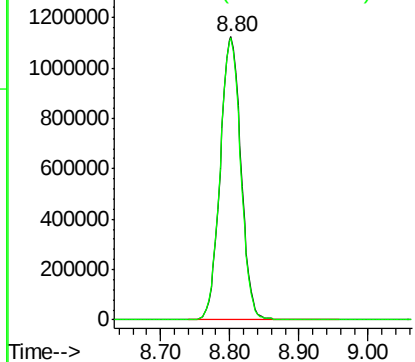


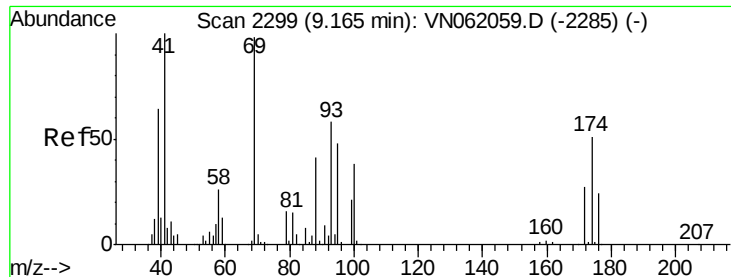
#44
Trichloroethene
Concen: 675.476 ug/l
RT: 8.80 min Scan# 2186
Delta R.T. -0.00 min
Lab File: VN062125.D
Acq: 25 Jun 2020 20:54

Tgt Ion: 130 Resp: 2335617
Ion Ratio Lower Upper
130 100
95 99.5 0.0 197.8



Abundance Ion 129.80 (129.50 to 130.50): V
Ion 94.90 (94.60 to 95.60): VN0

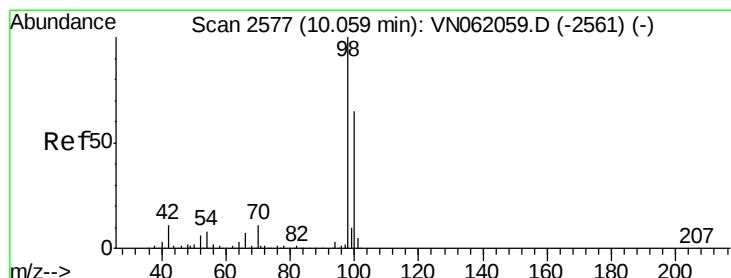
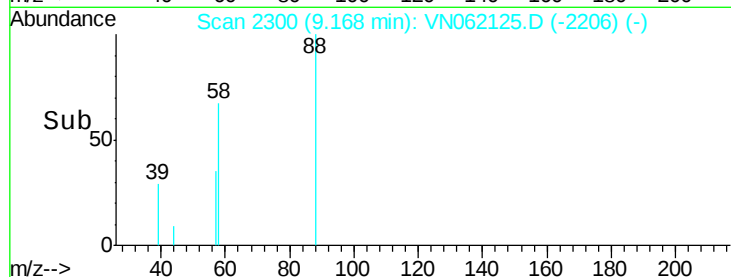
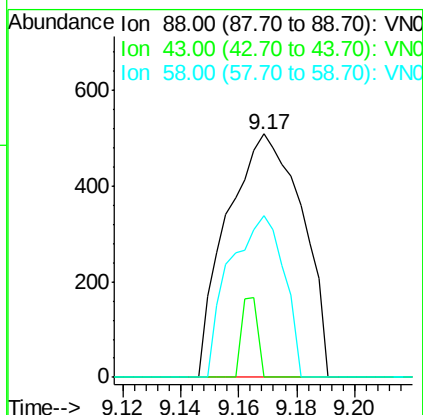
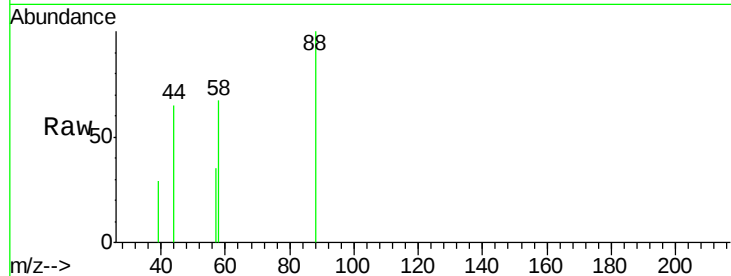




#49
1,4-Dioxane
Concen: 15.142 ug/l
RT: 9.17 min Scan# 2300
Delta R.T. 0.00 min
Lab File: VN062125.D
Acq: 25 Jun 2020 20:54

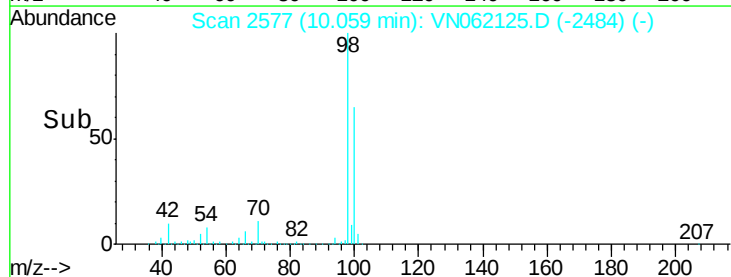
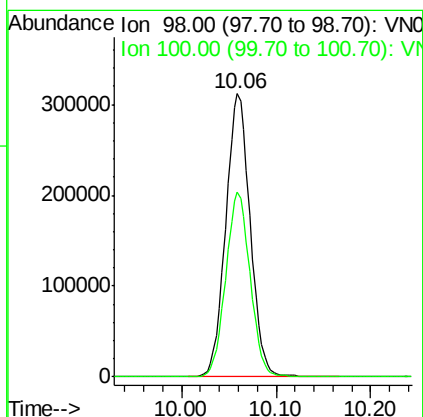
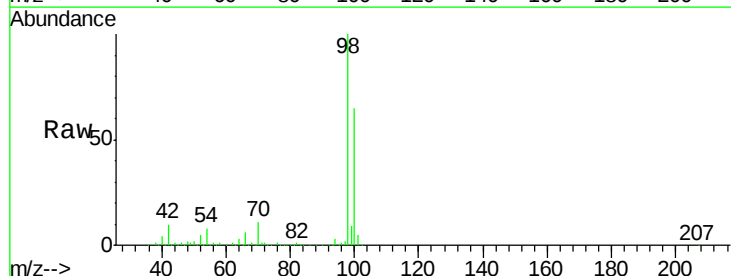
Instrument :
MSVOA_N
ClientSampleId :
RE120D2-20200615

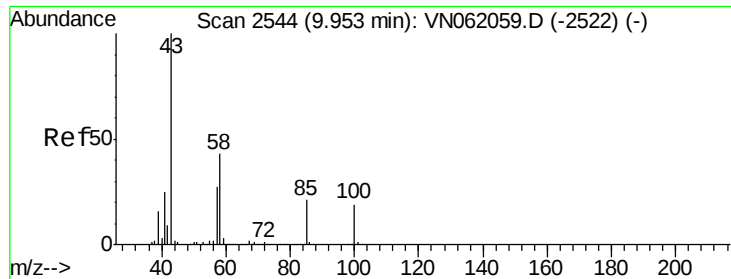
Tgt Ion: 88 Resp: 914
Ion Ratio Lower Upper
88 100
43 7.0 22.0 33.0#
58 48.0 49.2 73.8#



#50
Toluene-d8
Concen: 48.759 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. -0.00 min
Lab File: VN062125.D
Acq: 25 Jun 2020 20:54

Tgt Ion: 98 Resp: 559466
Ion Ratio Lower Upper
98 100
100 65.3 51.2 76.8





#51

4-Methyl-2-Pentanone

Concen: 0.600 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.11 min

Lab File: VN062125.D

Acq: 25 Jun 2020 20:54

Instrument :

MSVOA_N

ClientSampleId :

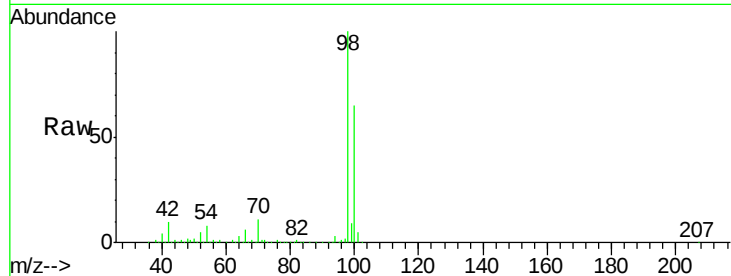
RE120D2-20200615

Tgt Ion: 43 Resp: 2129

Ion Ratio Lower Upper

43 100

58 197.6 34.2 51.2#



Abundance Ion 43.00 (42.70 to 43.70): VN062125.D (-2522) (-)

Ion 58.00 (57.70 to 58.70): VN062125.D (-2522) (-)

10.06

2500

2000

1500

1000

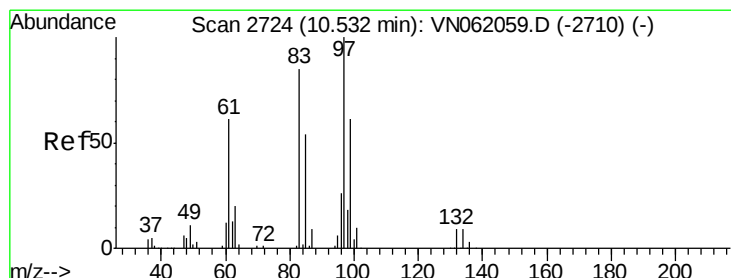
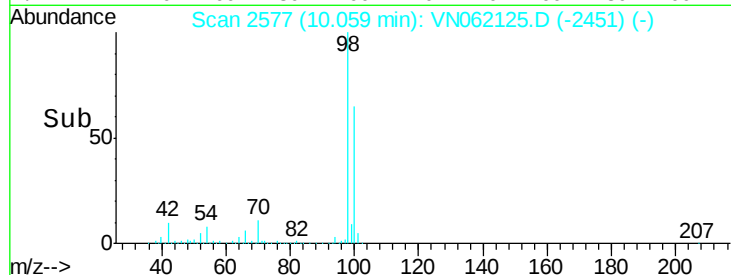
500

0

10.00

10.05

10.10



#55

1,1,2-Trichloroethane

Concen: 0.214 ug/l

RT: 10.53 min Scan# 2723

Delta R.T. -0.00 min

Lab File: VN062125.D

Acq: 25 Jun 2020 20:54

Tgt Ion: 97 Resp: 705

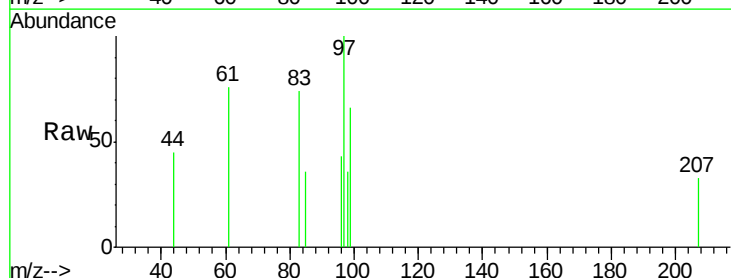
Ion Ratio Lower Upper

97 100

83 73.7 68.2 102.2

85 35.7 43.2 64.8#

99 65.6 48.5 72.7



Abundance Ion 96.90 (96.60 to 97.60): VN062125.D (-2710) (-)

Ion 82.90 (82.60 to 83.60): VN062125.D (-2710) (-)

Ion 84.90 (84.60 to 85.60): VN062125.D (-2710) (-)

Ion 98.90 (98.60 to 99.60): VN062125.D (-2710) (-)

1000

800

600

400

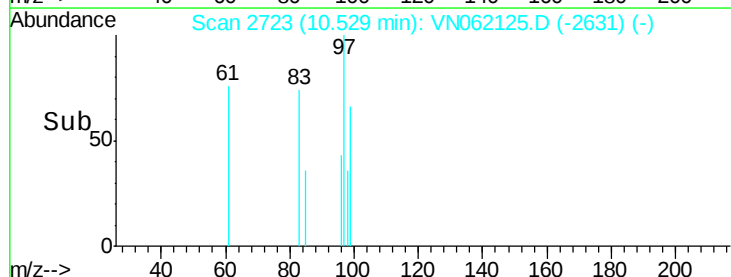
200

0

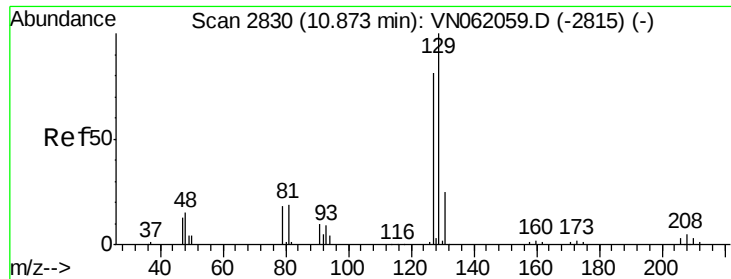
10.50

10.52

10.54



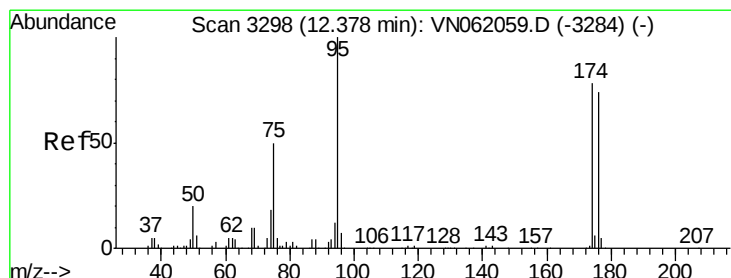
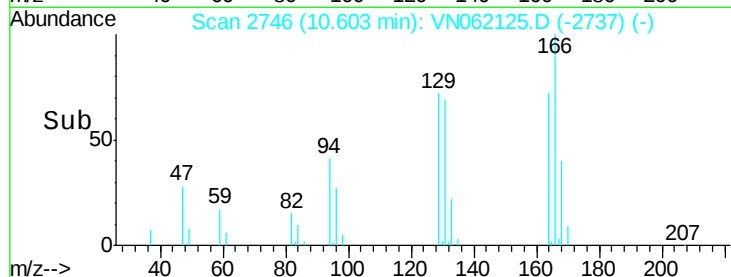
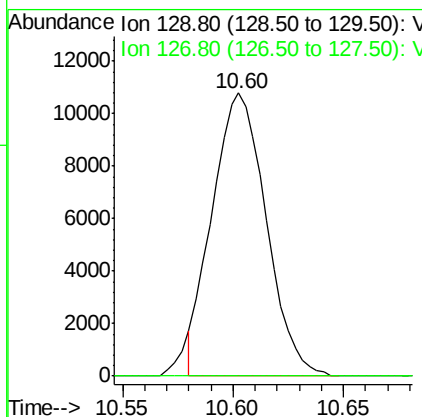
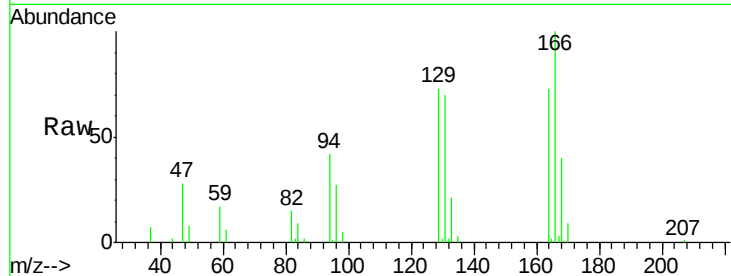
Time-->



#60
 Dibromochloromethane
 Concen: 5.247 ug/l
 RT: 10.60 min Scan# 2746
 Delta R.T. -0.27 min
 Lab File: VN062125.D
 Acq: 25 Jun 2020 20:54

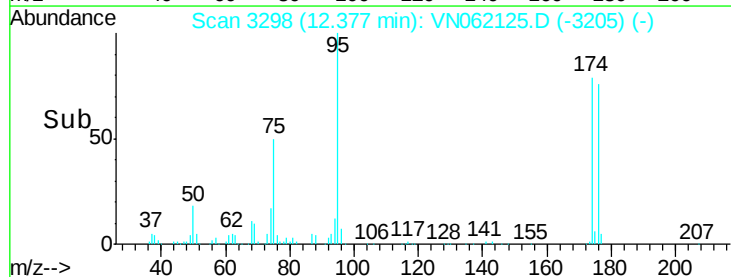
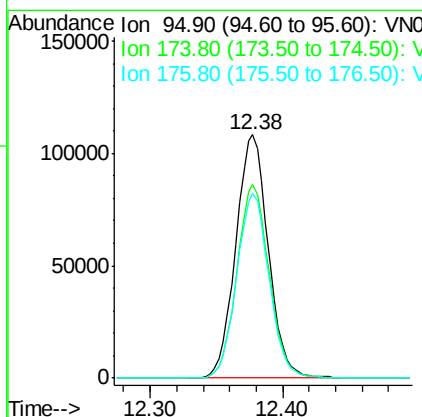
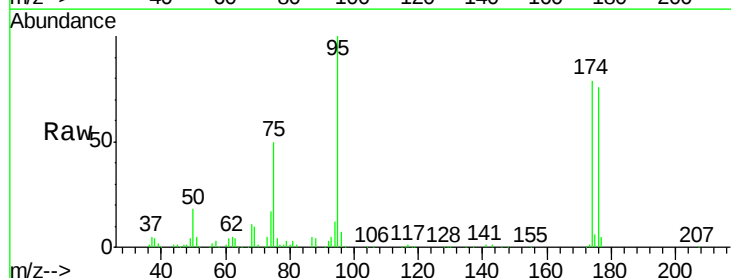
Instrument :
 MSVOA_N
 ClientSampleId :
 RE120D2-20200615

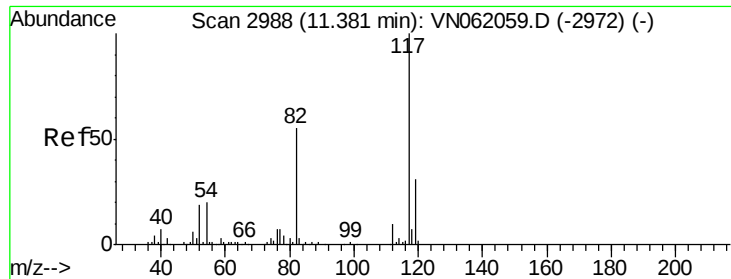
Tgt Ion: 129 Resp: 18262
 Ion Ratio Lower Upper
 129 100
 127 0.0 39.5 118.5#



#62
 4-Bromofluorobenzene
 Concen: 47.514 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. -0.00 min
 Lab File: VN062125.D
 Acq: 25 Jun 2020 20:54

Tgt Ion: 95 Resp: 184191
 Ion Ratio Lower Upper
 95 100
 174 79.0 0.0 154.8
 176 76.0 0.0 147.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. -0.00 min

Lab File: VN062125.D

Acq: 25 Jun 2020 20:54

Instrument :

MSVOA_N

ClientSampleId :

RE120D2-20200615

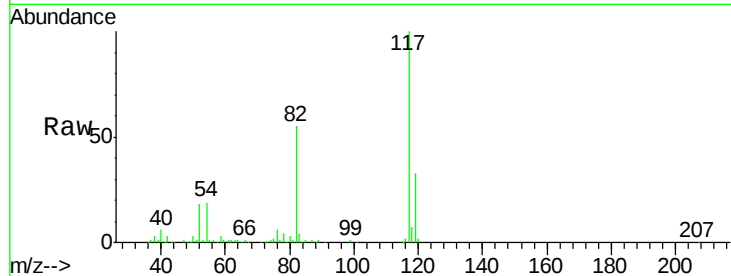
Tgt Ion:117 Resp: 431989

Ion Ratio Lower Upper

117 100

82 54.8 43.8 65.8

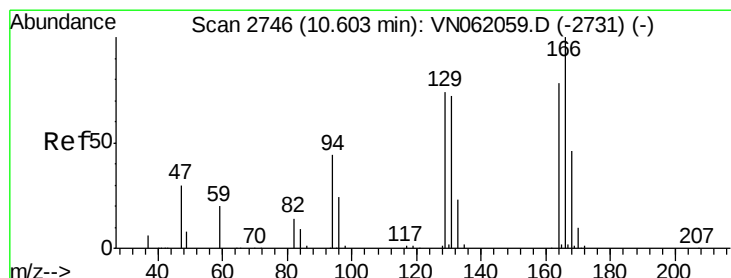
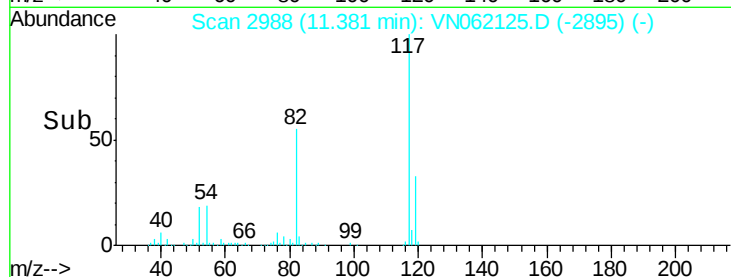
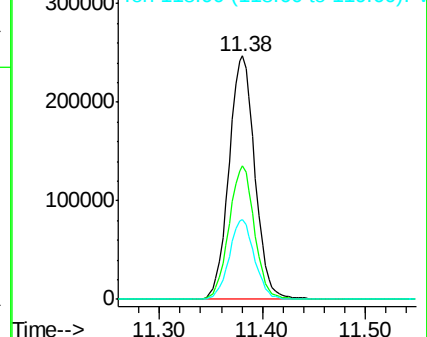
119 32.8 25.2 37.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64

Tetrachloroethene

Concen: 6.673 ug/l

RT: 10.60 min Scan# 2746

Delta R.T. -0.00 min

Lab File: VN062125.D

Acq: 25 Jun 2020 20:54

Tgt Ion:164 Resp: 19691

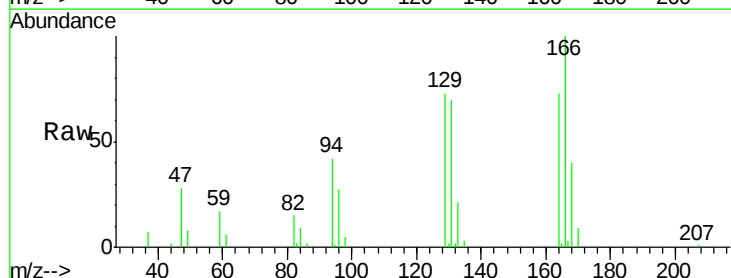
Ion Ratio Lower Upper

164 100

166 136.8 102.9 154.3

129 99.2 75.8 113.8

131 95.2 73.8 110.6

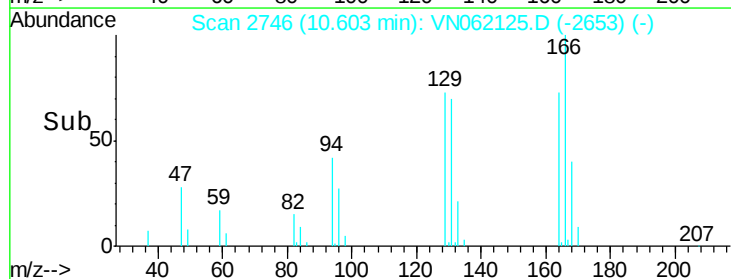
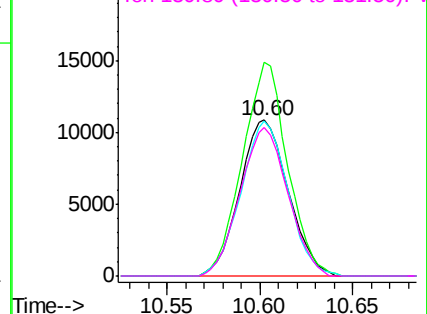


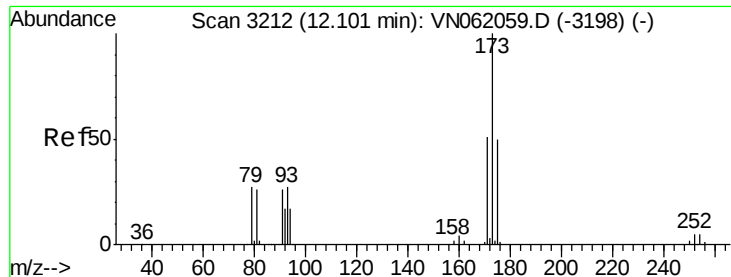
Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





#71

Bromoform

Concen: 0.729 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.27 min

Lab File: VN062125.D

Acq: 25 Jun 2020 20:54

Instrument :

MSVOA_N

ClientSampleId :

RE120D2-20200615

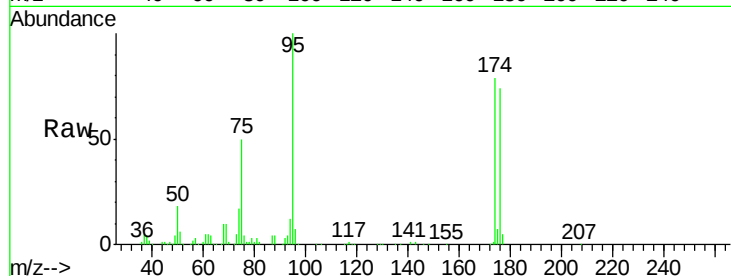
Tgt Ion:173 Resp: 1701

Ion Ratio Lower Upper

173 100

175 546.9 24.7 74.1#

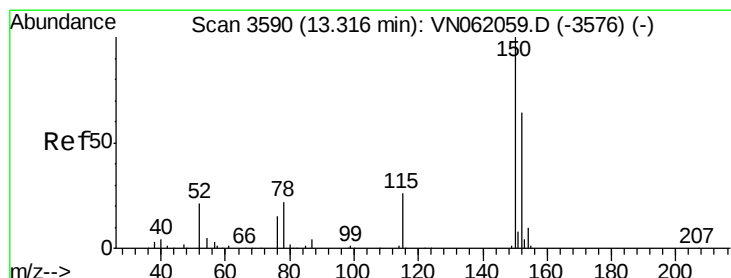
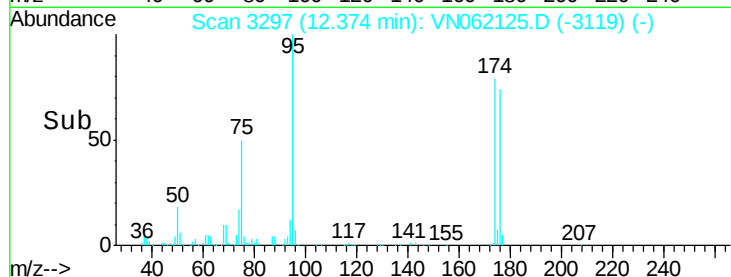
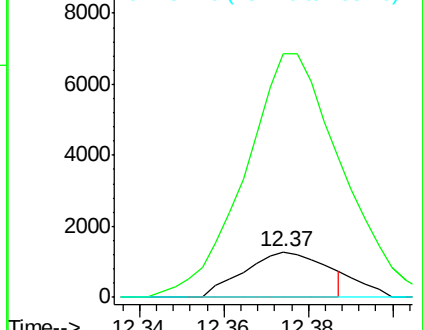
254 0.0 0.0 0.0



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# 3591

Delta R.T. 0.00 min

Lab File: VN062125.D

Acq: 25 Jun 2020 20:54

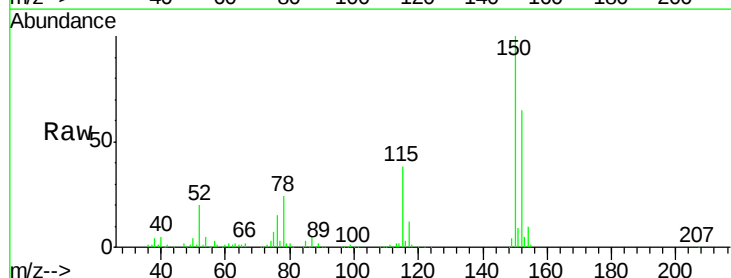
Tgt Ion:152 Resp: 161005

Ion Ratio Lower Upper

152 100

115 58.4 29.5 88.5

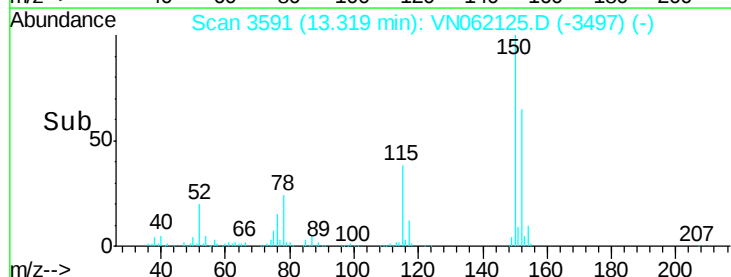
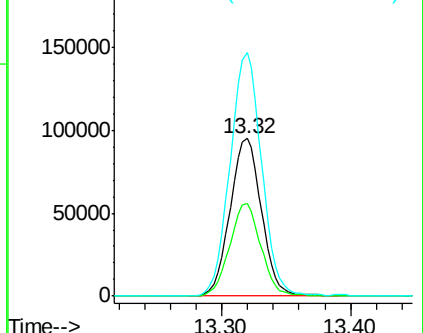
150 154.8 0.0 351.4

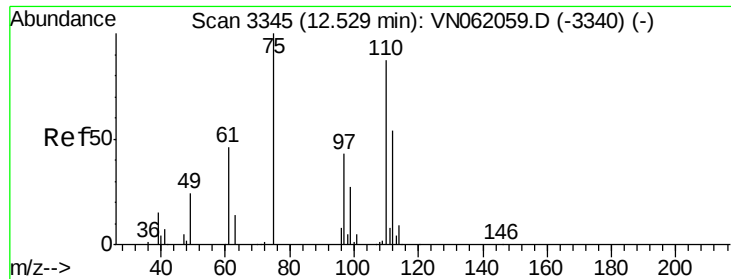


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 24.272 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062125.D

Acq: 25 Jun 2020 20:54

Instrument :

MSVOA_N

ClientSampleId :

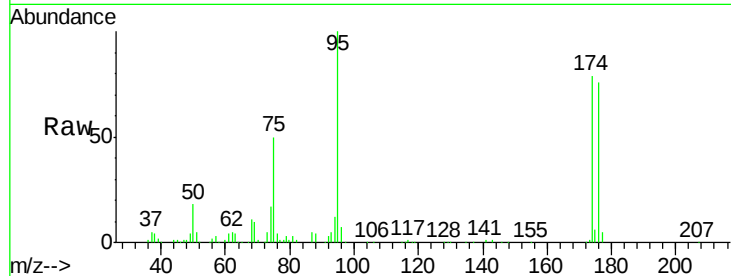
RE120D2-20200615

Tgt Ion: 75 Resp: 91996

Ion Ratio Lower Upper

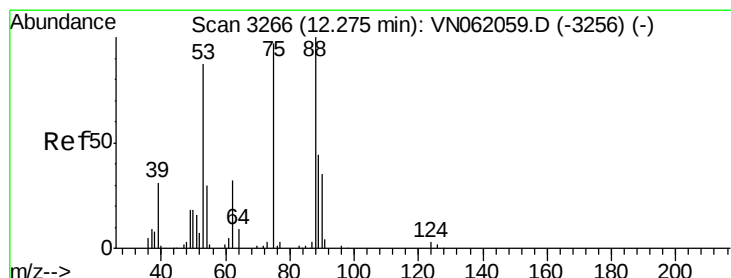
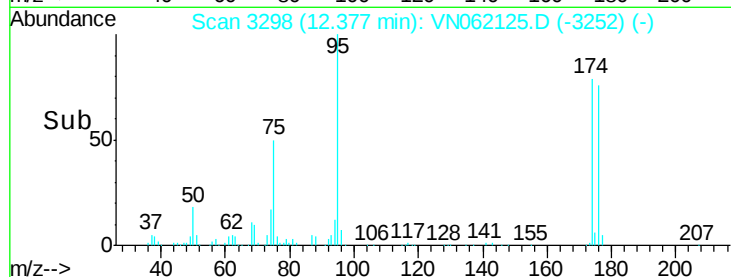
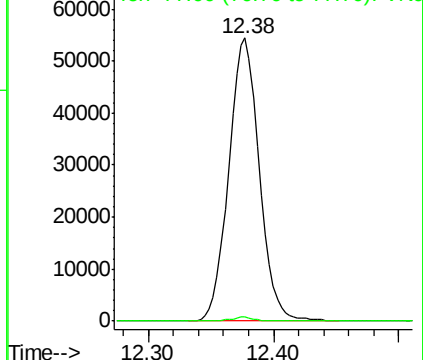
75 100

77 1.0 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: 70.884 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062125.D

Acq: 25 Jun 2020 20:54

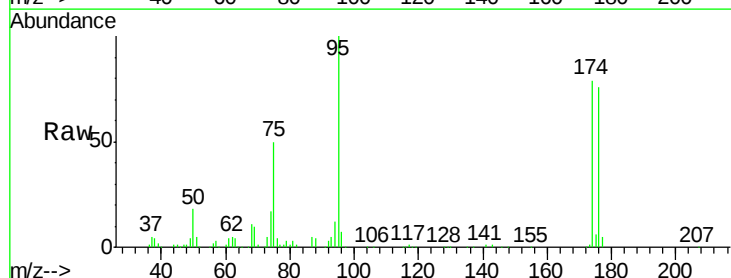
Tgt Ion: 75 Resp: 91996

Ion Ratio Lower Upper

75 100

53 0.0 72.0 108.0#

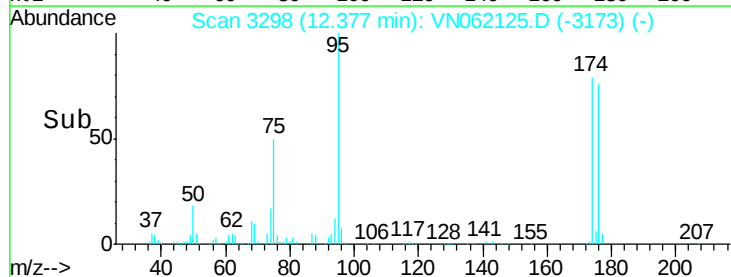
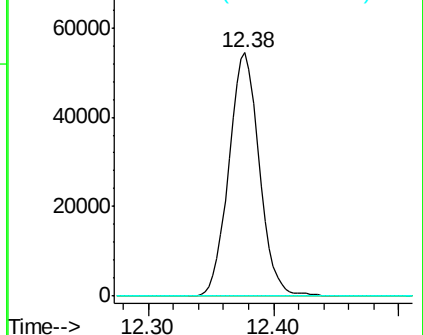
89 0.0 36.9 55.3#

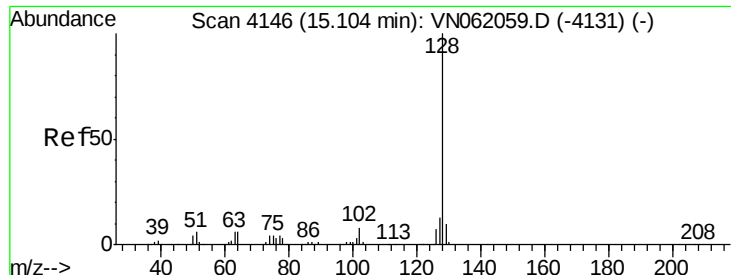


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#95

Naphthalene

Concen: 4.023 ug/l

RT: 15.10 min Scan# 4146

Delta R.T. -0.00 min

Lab File: VN062125.D

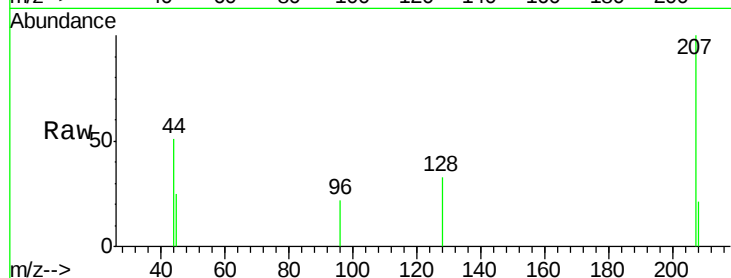
Acq: 25 Jun 2020 20:54

Instrument :

MSVOA_N

ClientSampleId :

RE120D2-20200615



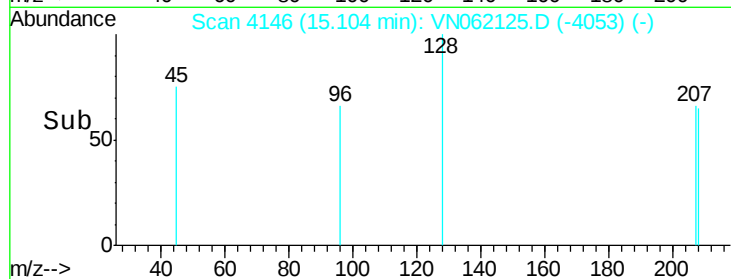
Tgt Ion:128 Resp: 235

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

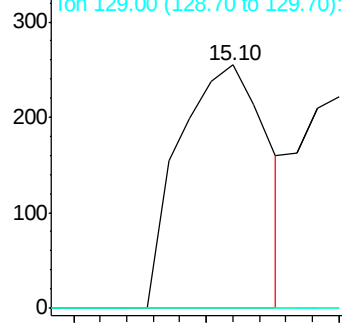
129 0.0 8.6 13.0#



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



Time-->