

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062620\
 Data File : VN062150.D
 Acq On : 26 Jun 2020 19:27
 Operator : JC/MD
 Sample : L3088-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 20BR-20200622

Quant Time: Jun 27 03:45:16 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

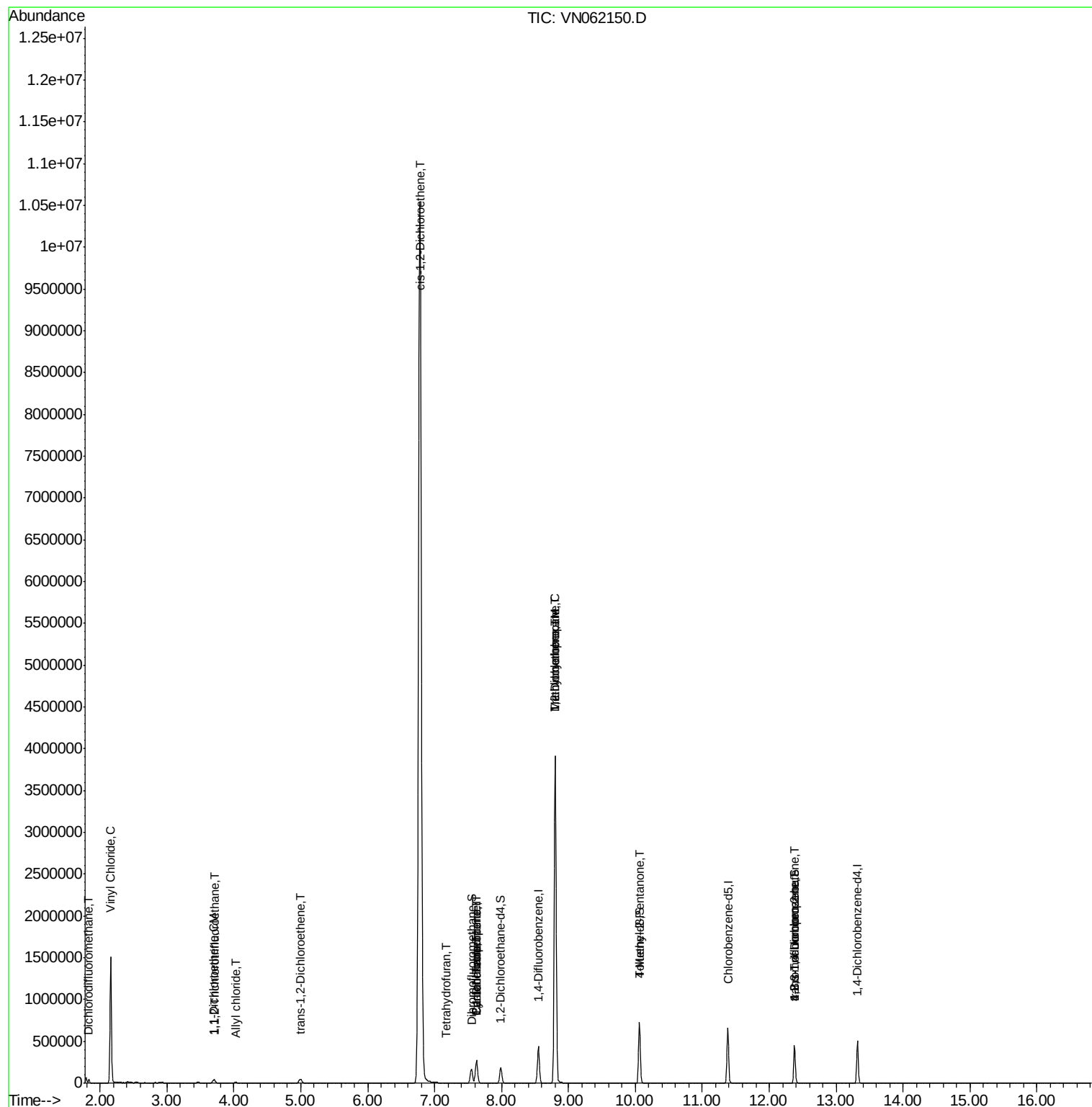
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	217603	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	402181	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	383373	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	137542	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	151860	49.73	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.46%	
35) Dibromofluoromethane	7.55	113	128869	49.95	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.90%	
50) Toluene-d8	10.06	98	504349	48.90	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.80%	
62) 4-Bromofluorobenzene	12.38	95	160137	45.96	ug/l	0.00
Spiked Amount 50.000			Recovery	=	91.92%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.83	85	34307	13.948	ug/l	96
3) Chloromethane	2.03	50	464	Below Cal	#	78
4) Vinyl Chloride	2.16	62	1344058	346.996	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.72	101	6452	2.581	ug/l #	70
12) 1,1-Dichloroethene	3.70	96	19234	7.698	ug/l	96
14) Allyl chloride	4.02	41	1299	0.382	ug/l #	68
16) Acetone	3.78	43	941	Below Cal		97
21) trans-1,2-Dichloroethene	4.99	96	33718	11.846	ug/l	97
27) cis-1,2-Dichloroethene	6.78	96	7452030	2326.611	ug/l	83
29) Tetrahydrofuran	7.16	42	502	0.513	ug/l #	71
31) Cyclohexane	7.62	56	4971	1.178	ug/l #	18
36) 1,1-Dichloropropene	7.63	75	17977	4.447	ug/l #	48
38) Carbon Tetrachloride	7.62	117	21856	5.735	ug/l #	15
39) Methylcyclohexane	8.80	83	17012	3.841	ug/l #	1
44) Trichloroethene	8.80	130	1418692	456.447	ug/l	98
45) 1,2-Dichloropropane	8.80	63	3355	1.104	ug/l #	1
51) 4-Methyl-2-Pentanone	10.06	43	1983	0.622	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	79446	24.537	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	79446	71.656	ug/l #	13

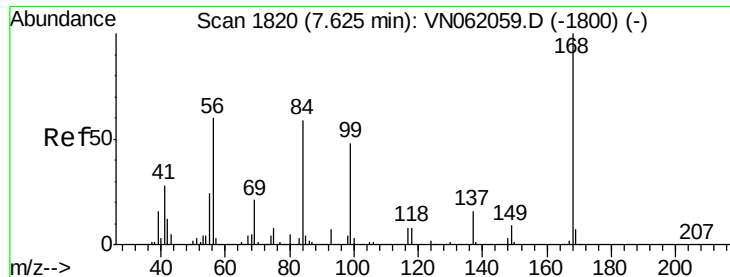
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN062150.D

Acq: 26 Jun 2020 19:27

Instrument :

MSVOA_N

ClientSampleId :

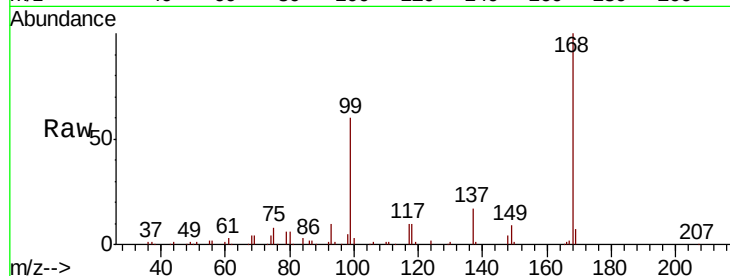
20BR-20200622

Tot Ion:168 Resp: 217603

Ion Ratio Lower Upper

168 100

99 60.2 45.8 68.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

100000

80000

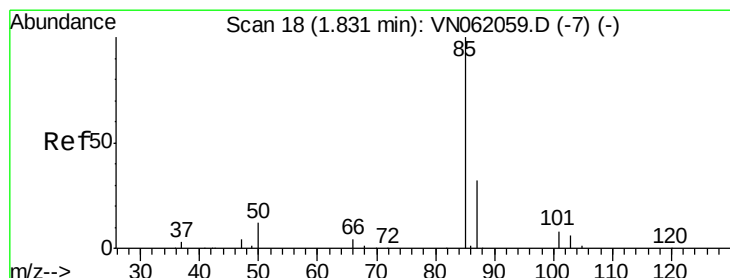
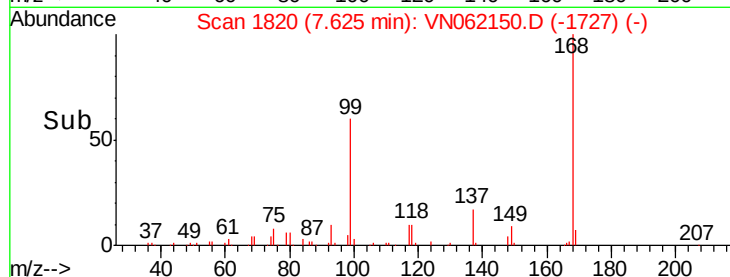
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#2

Dichlorodifluoromethane

Concen: 13.948 ug/l

RT: 1.83 min Scan# 18

Delta R.T. -0.00 min

Lab File: VN062150.D

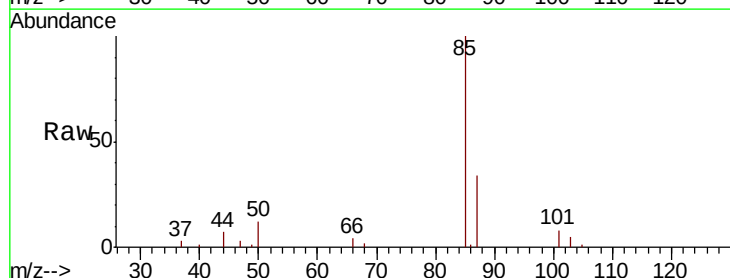
Acq: 26 Jun 2020 19:27

Tgt Ion: 85 Resp: 34307

Ion Ratio Lower Upper

85 100

87 34.0 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.83

30000

25000

20000

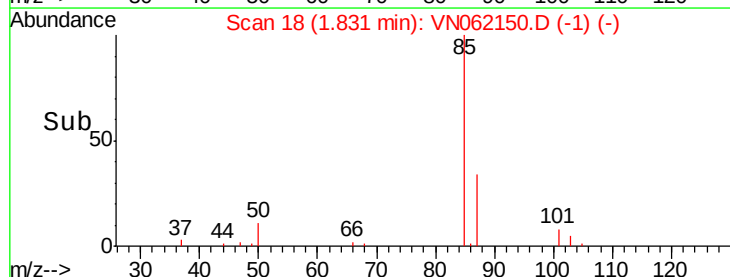
15000

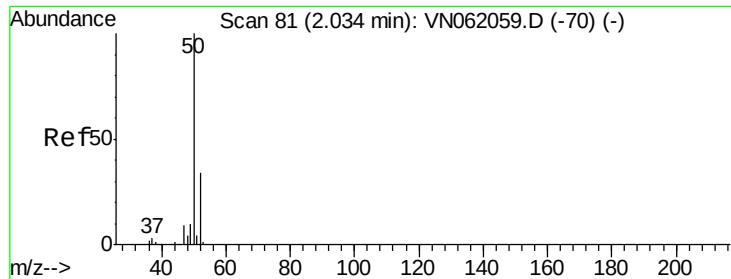
10000

5000

0

Time--> 1.80 1.85 1.90





#3

Chloromethane

Concen: Below Cal

RT: 2.03 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN062150.D

Acq: 26 Jun 2020 19:27

Instrument :

MSVOA_N

ClientSampleId :

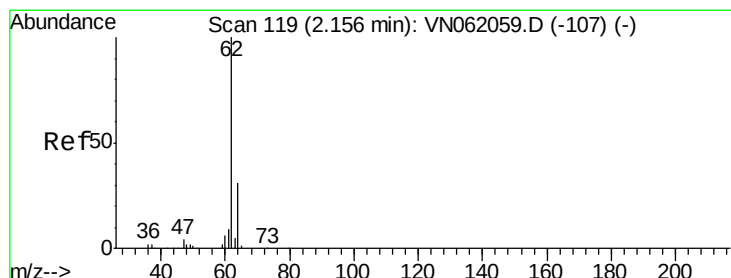
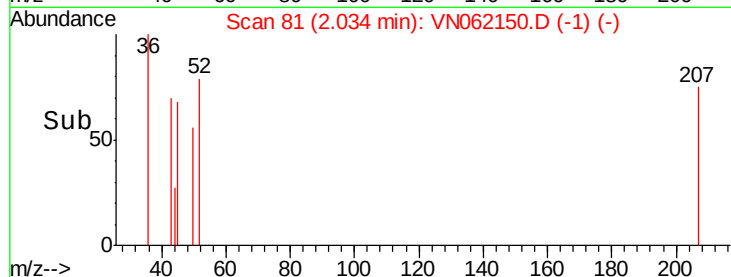
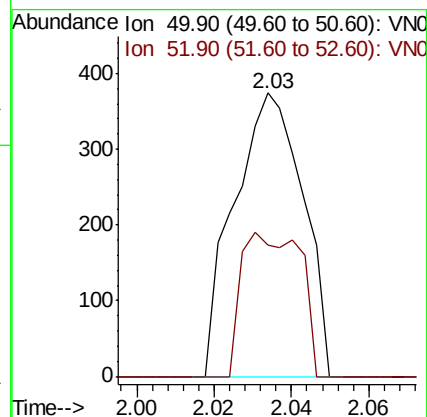
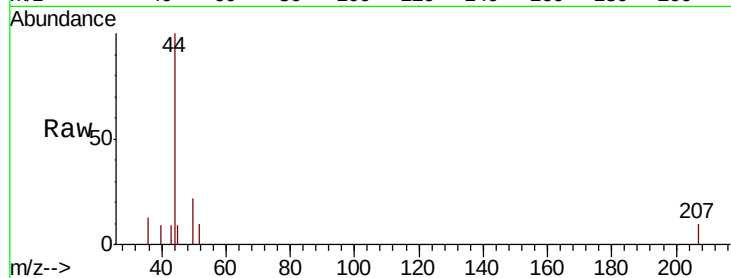
20BR-20200622

Tot Ion: 50 Resp: 464

Ion Ratio Lower Upper

50 100

52 46.5 27.0 40.6#



#4

Vinyl Chloride

Concen: 346.996 ug/l

RT: 2.16 min Scan# 120

Delta R.T. 0.00 min

Lab File: VN062150.D

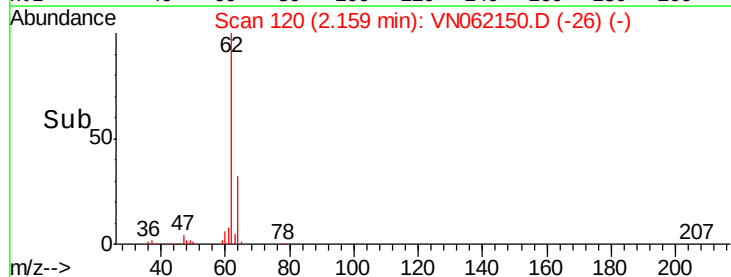
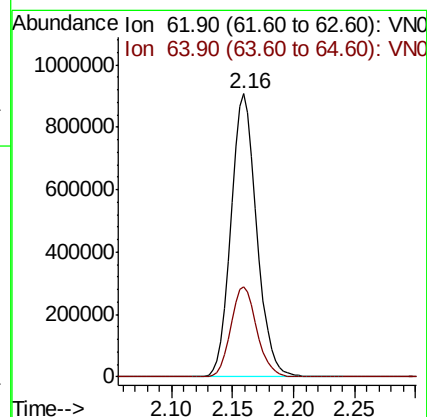
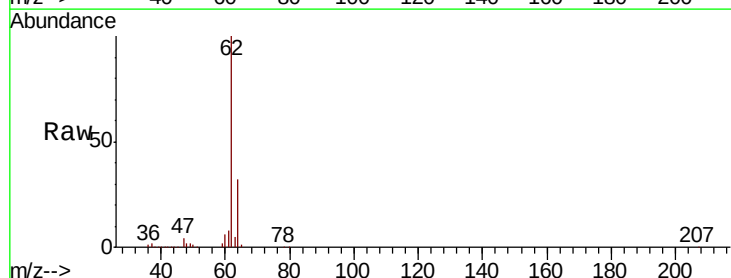
Acq: 26 Jun 2020 19:27

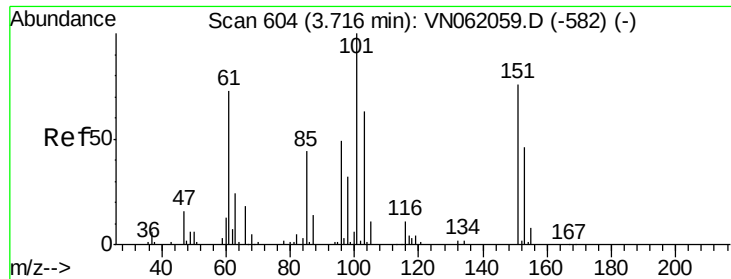
Tgt Ion: 62 Resp: 1344058

Ion Ratio Lower Upper

62 100

64 31.9 25.1 37.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.581 ug/l

RT: 3.72 min Scan# 604

Delta R.T. -0.00 min

Lab File: VN062150.D

Acq: 26 Jun 2020 19:27

Instrument :

MSVOA_N

ClientSampleId :

20BR-20200622

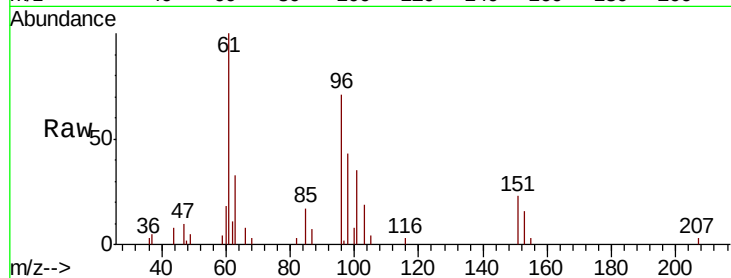
Tot Ion:101 Resp: 6452

Ion Ratio Lower Upper

101 100

85 42.6 34.5 51.7

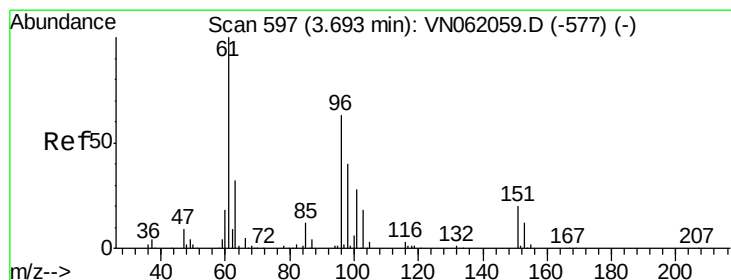
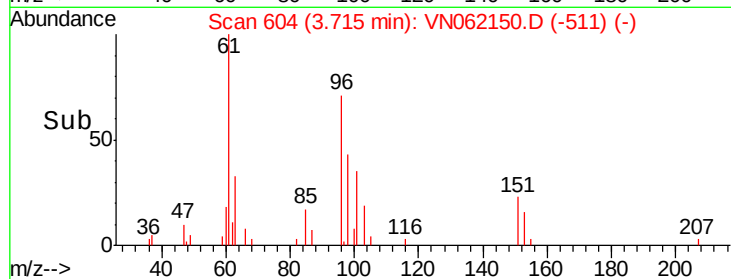
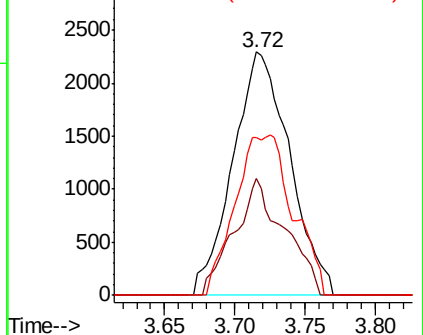
151 32.5 57.8 86.8#



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN0

Ion 150.80 (150.50 to 151.50): V



#12

1,1-Dichloroethene

Concen: 7.698 ug/l

RT: 3.70 min Scan# 599

Delta R.T. 0.01 min

Lab File: VN062150.D

Acq: 26 Jun 2020 19:27

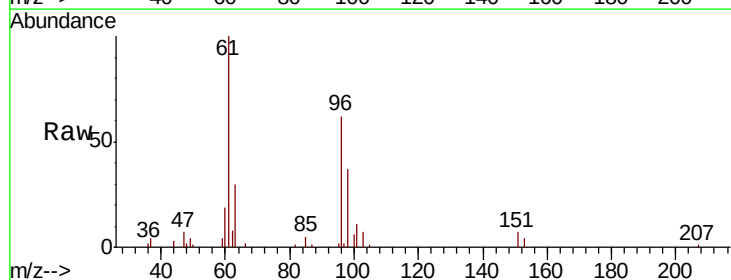
Tgt Ion: 96 Resp: 19234

Ion Ratio Lower Upper

96 100

61 162.4 126.7 190.1

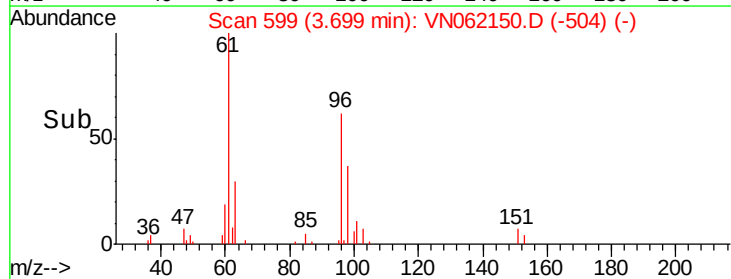
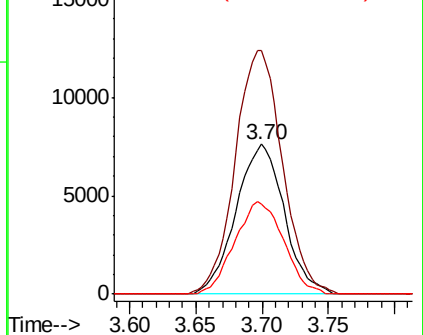
98 59.9 51.0 76.4

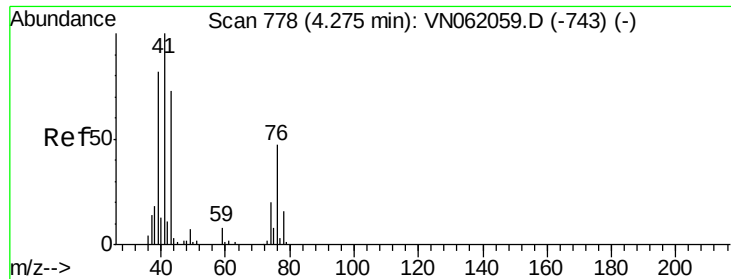


Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

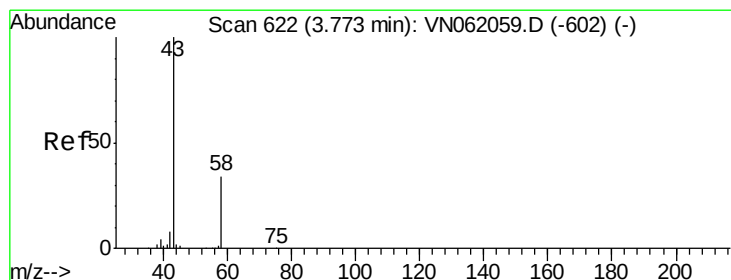
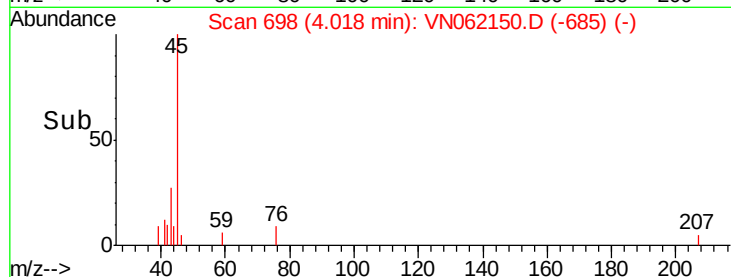
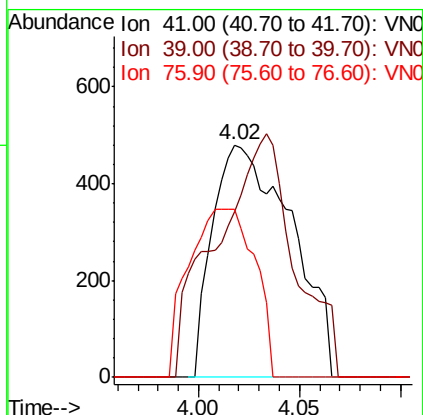
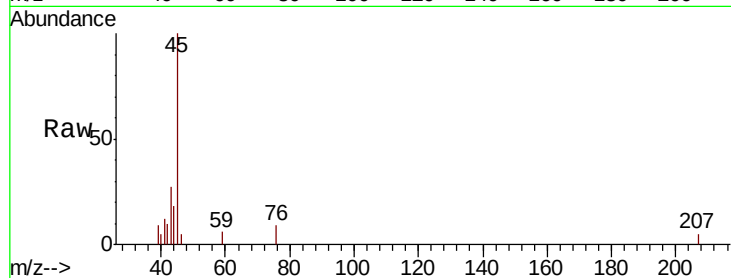




#14
Allvl chloride
Concen: 0.382 ug/l
RT: 4.02 min Scan# 698
Delta R.T. -0.26 min
Lab File: VN062150.D
Acq: 26 Jun 2020 19:27

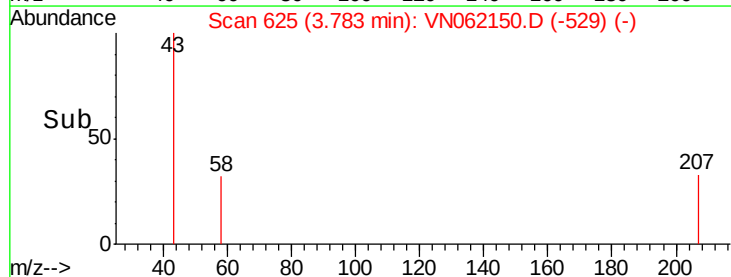
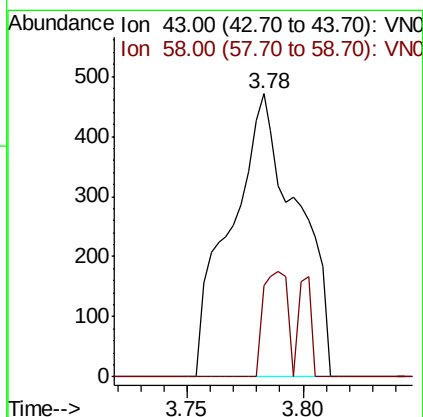
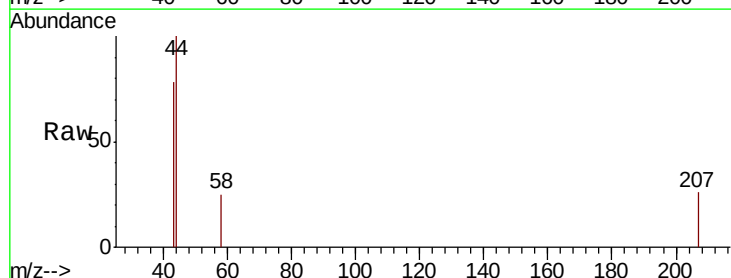
Instrument :
MSVOA_N
ClientSampleId :
20BR-20200622

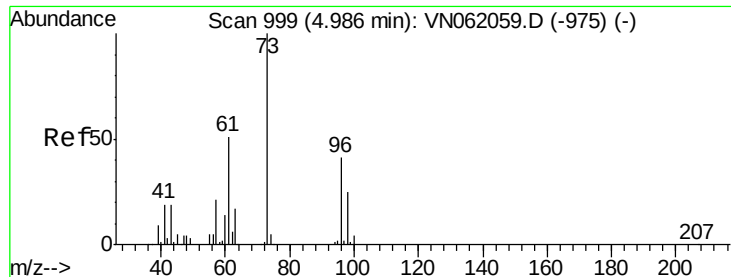
Tot Ion: 41 Resp: 1299
Ion Ratio Lower Upper
41 100
39 103.8 60.0 90.0#
76 60.4 34.1 51.1#



#16
Acetone
Concen: Below Cal
RT: 3.78 min Scan# 625
Delta R.T. 0.01 min
Lab File: VN062150.D
Acq: 26 Jun 2020 19:27

Tgt Ion: 43 Resp: 941
Ion Ratio Lower Upper
43 100
58 32.5 27.5 41.3





#21

trans-1,2-Dichloroethene

Concen: 11.846 ug/l

RT: 4.99 min Scan# 999

Delta R.T. 0.00 min

Lab File: VN062150.D

Acq: 26 Jun 2020 19:27

Instrument :

MSVOA_N

ClientSampleId :

20BR-20200622

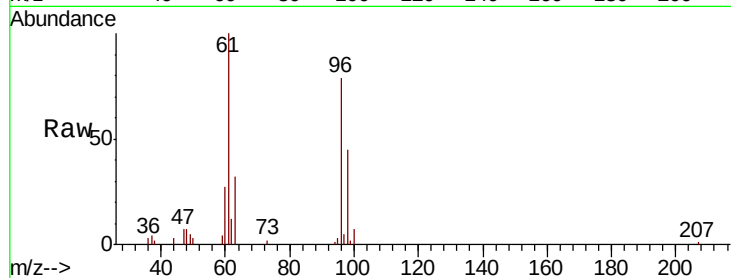
Tot Ion: 96 Resp: 33718

Ion Ratio Lower Upper

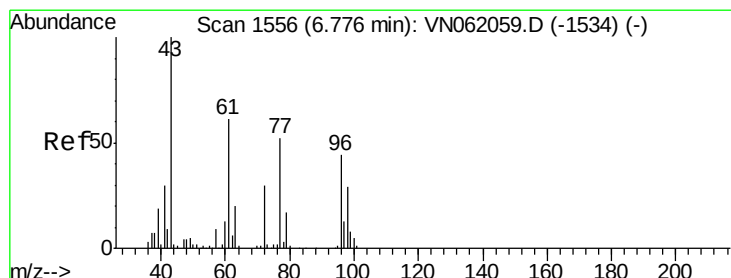
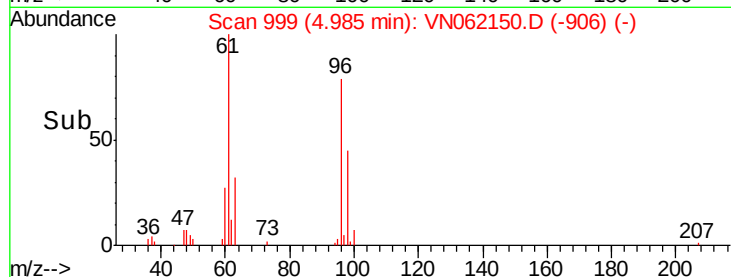
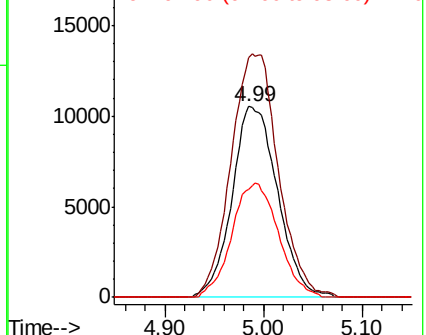
96 100

61 125.9 101.4 152.2

98 56.7 49.3 73.9



Abundance Ion 95.90 (95.60 to 96.60): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 97.90 (97.60 to 98.60): VN0



#27

cis-1,2-Dichloroethene

Concen: 2326.611 ug/l

RT: 6.78 min Scan# 1557

Delta R.T. 0.00 min

Lab File: VN062150.D

Acq: 26 Jun 2020 19:27

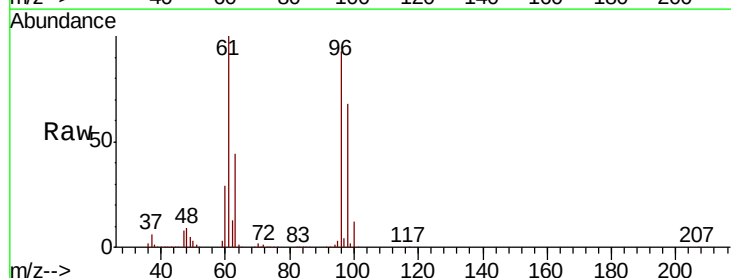
Tgt Ion: 96 Resp: 7452030

Ion Ratio Lower Upper

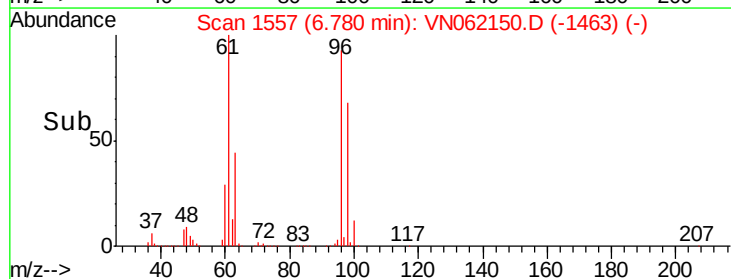
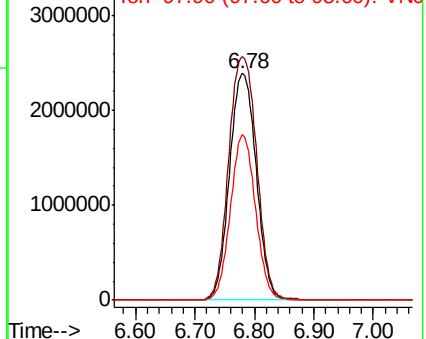
96 100

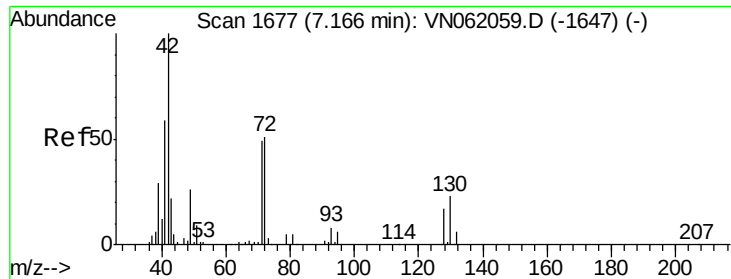
61 113.2 0.0 280.4

98 68.6 0.0 129.4



Abundance Ion 95.90 (95.60 to 96.60): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 97.90 (97.60 to 98.60): VN0





#29

Tetrahydrofuran

Concen: 0.513 ug/l

RT: 7.16 min Scan# 1676

Delta R.T. -0.00 min

Lab File: VN062150.D

Acq: 26 Jun 2020 19:27

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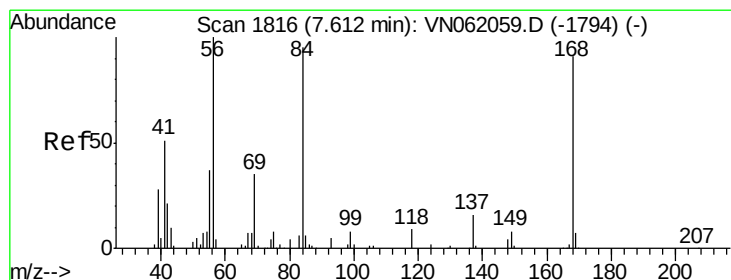
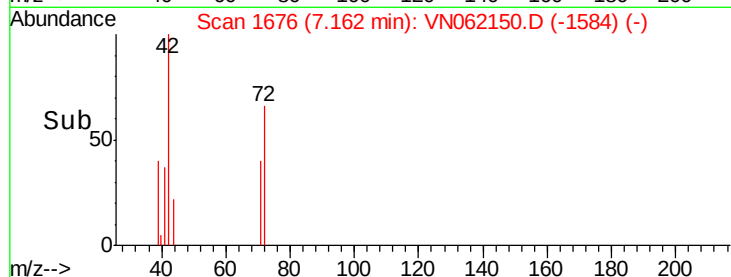
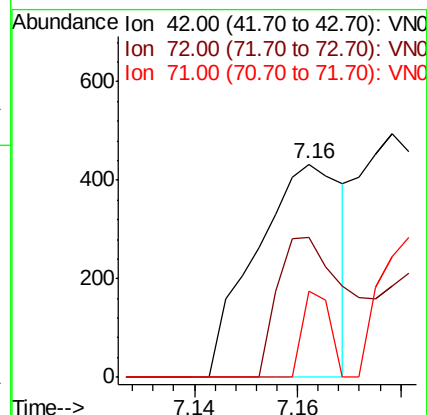
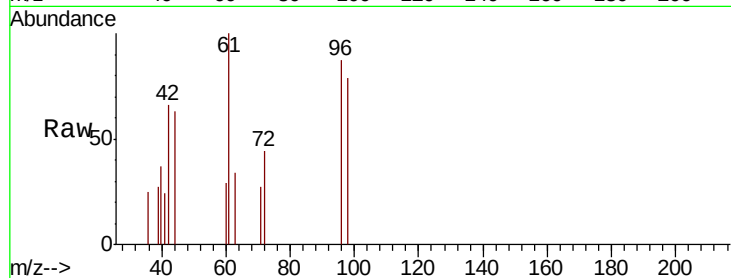
Tot Ion: 42 Resp: 502

Ion Ratio Lower Upper

42 100

72 56.6 41.1 61.7

71 12.7 38.2 57.4#



#31

Cyclohexane

Concen: 1.178 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. 0.01 min

Lab File: VN062150.D

Acq: 26 Jun 2020 19:27

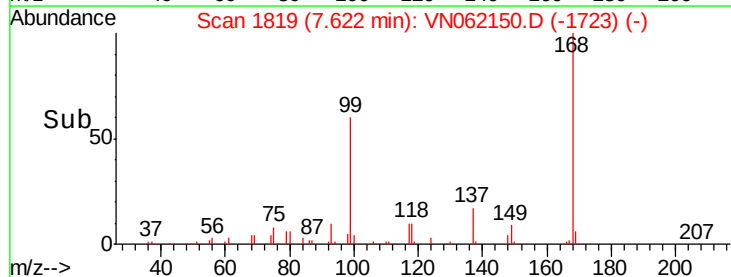
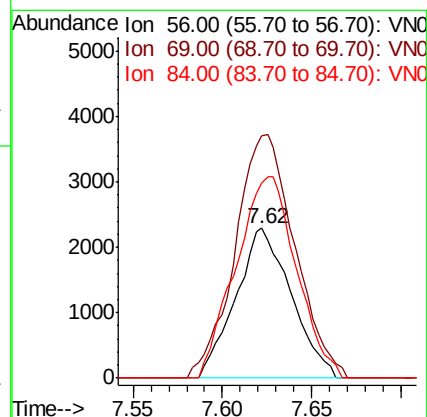
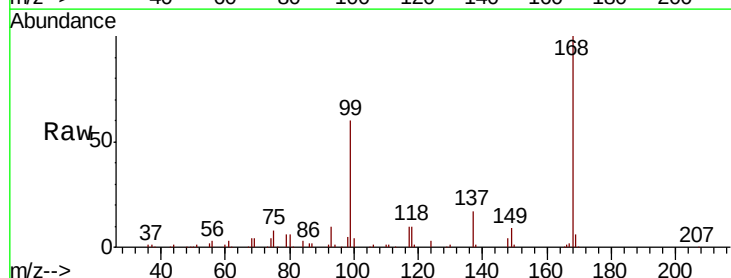
Tgt Ion: 56 Resp: 4971

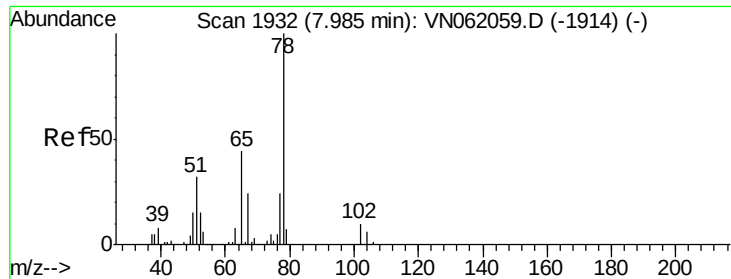
Ion Ratio Lower Upper

56 100

69 154.8 28.0 42.0#

84 130.2 76.1 114.1#

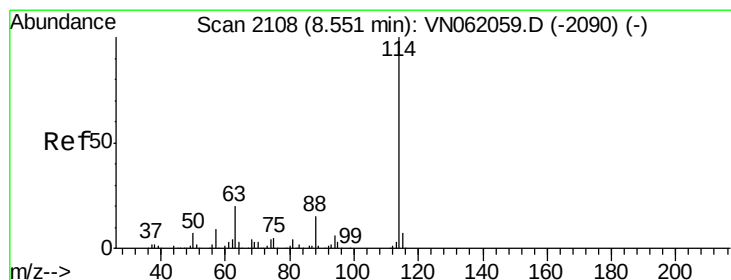
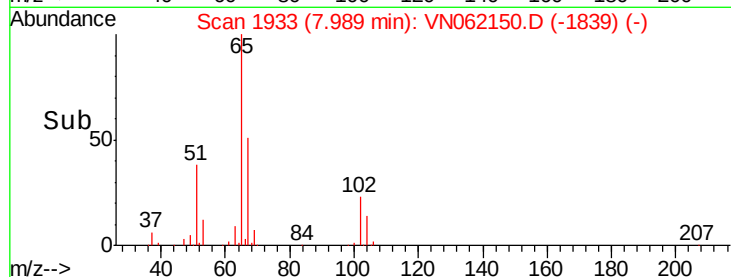
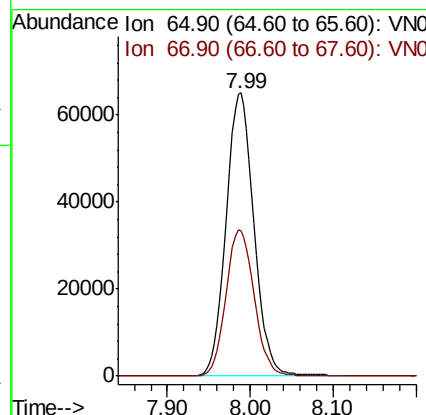
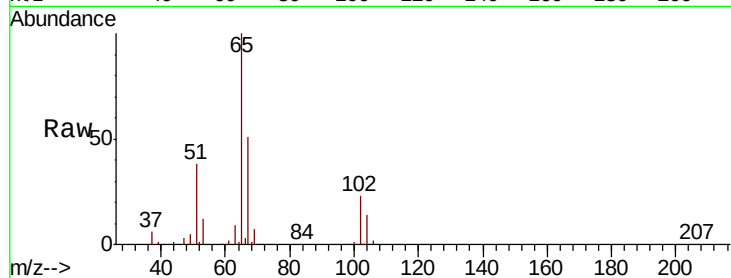




#33
 1,2-Dichloroethane-d4
 Concen: 49.730 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. 0.00 min
 Lab File: VN062150.D
 Acq: 26 Jun 2020 19:27

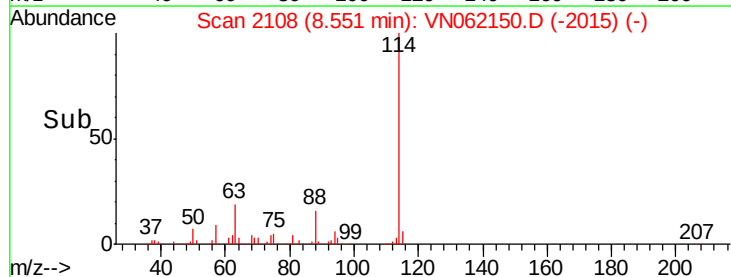
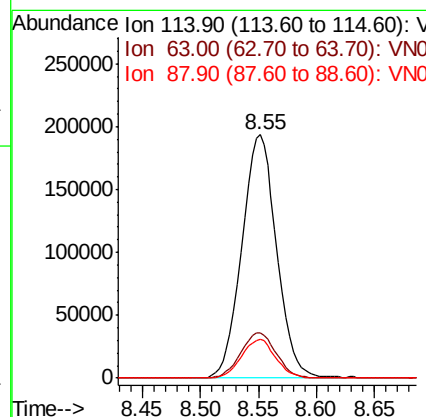
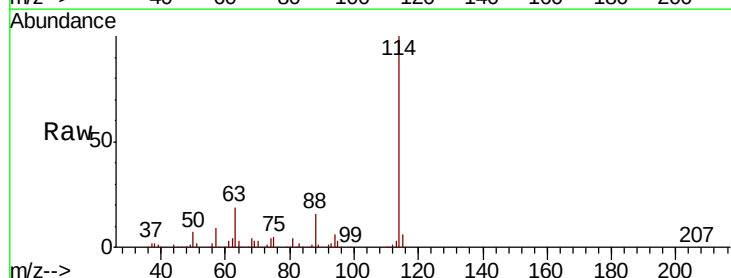
Instrument :
 MSVOA_N
 ClientSampleId :
 20BR-20200622

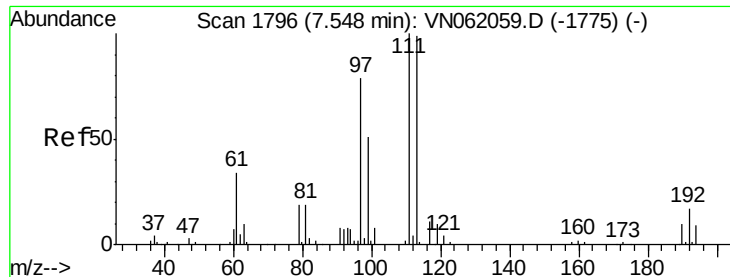
Tot Ion: 65 Resp: 151860
 Ion Ratio Lower Upper
 65 100
 67 52.1 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN062150.D
 Acq: 26 Jun 2020 19:27

Tgt Ion: 114 Resp: 402181
 Ion Ratio Lower Upper
 114 100
 63 18.7 0.0 39.2
 88 16.0 0.0 30.8

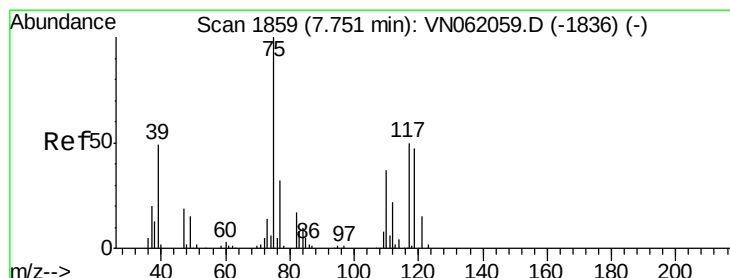
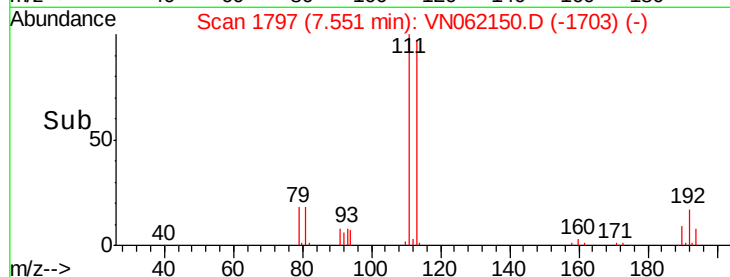
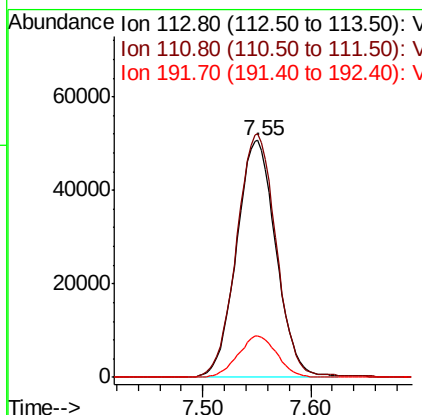
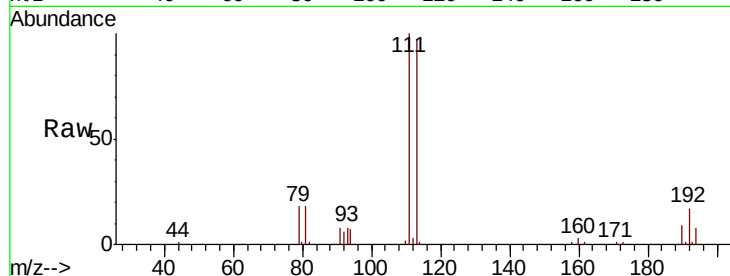




#35
 Dibromofluoromethane
 Concen: 49.946 ug/l
 RT: 7.55 min Scan# 1797
 Delta R.T. 0.00 min
 Lab File: VN062150.D
 Acq: 26 Jun 2020 19:27

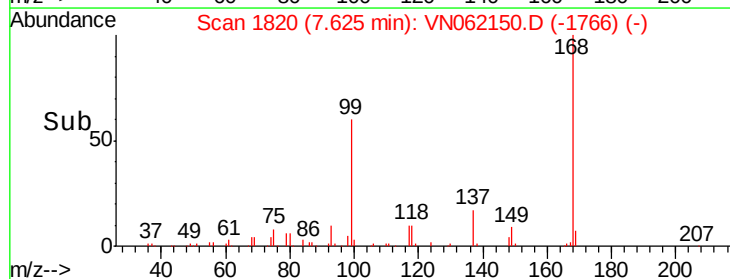
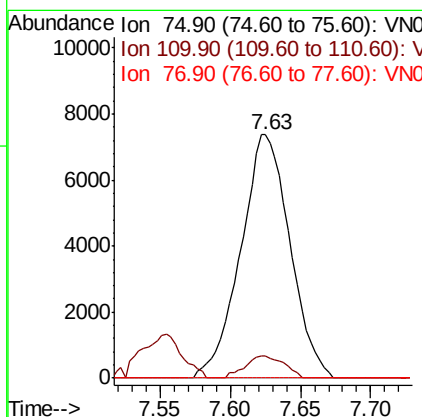
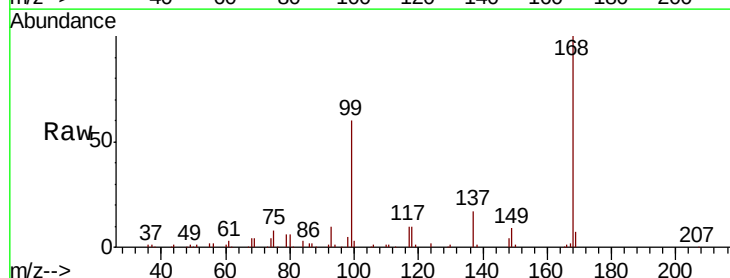
Instrument :
 MSVOA_N
 ClientSampleId :
 20BR-20200622

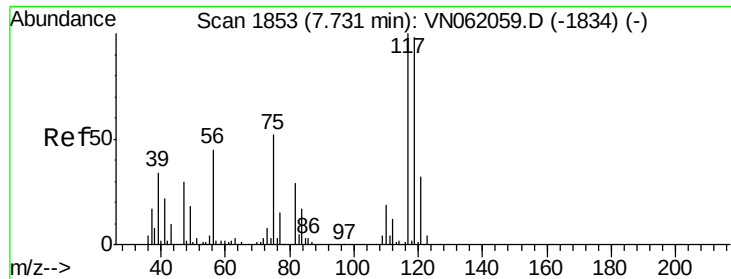
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.4	82.2	123.4
192	17.2	14.0	21.0



#36
 1,1-Dichloropropene
 Concen: 4.447 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN062150.D
 Acq: 26 Jun 2020 19:27

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.3	17.9	53.8#
77	0.0	24.9	37.3#

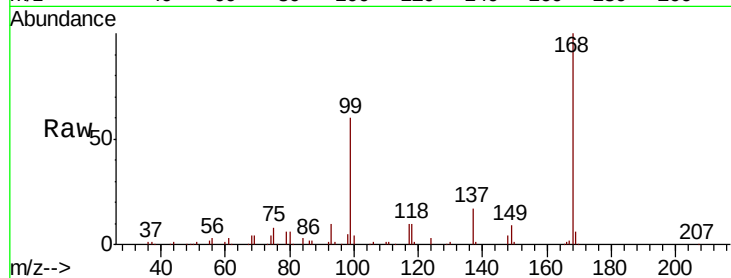




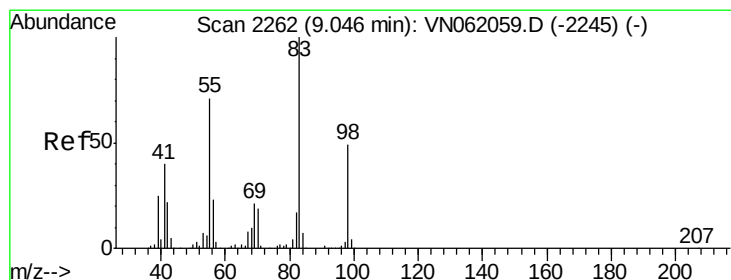
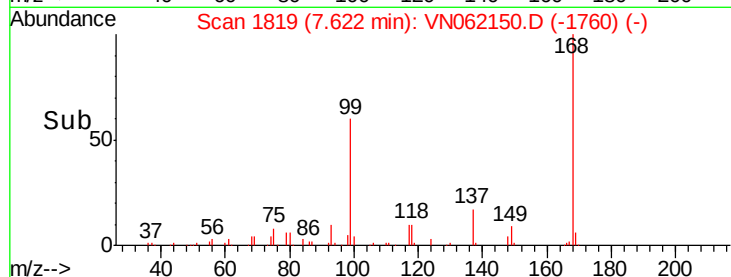
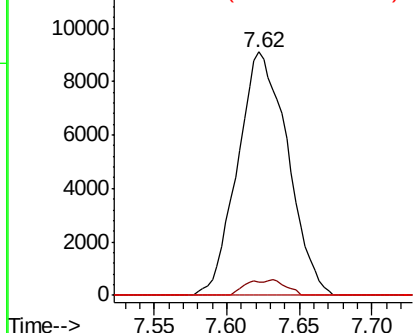
#38
Carbon Tetrachloride
Concen: 5.735 ug/l
RT: 7.62 min Scan# 1819
Delta R.T. -0.11 min
Lab File: VN062150.D
Acq: 26 Jun 2020 19:27

Instrument :
MSVOA_N
ClientSampleId :
20BR-20200622

Tot Ion:117 Resp: 21856
Ion Ratio Lower Upper
117 100
119 5.4 78.2 117.2#
121 0.0 25.8 38.6#

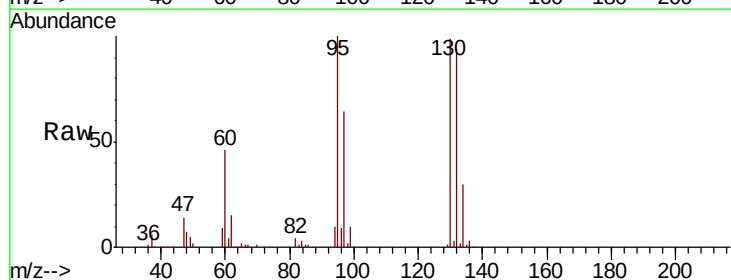


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

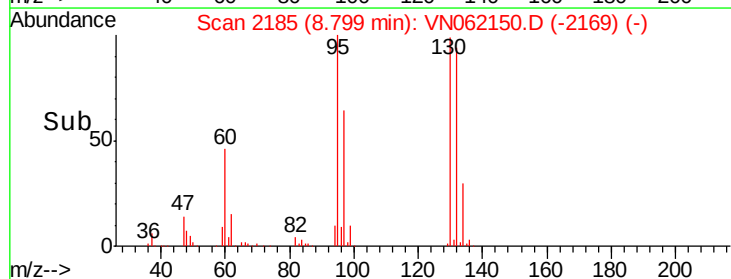
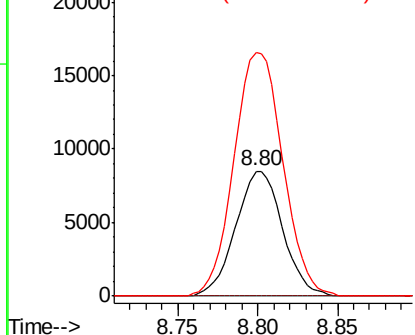


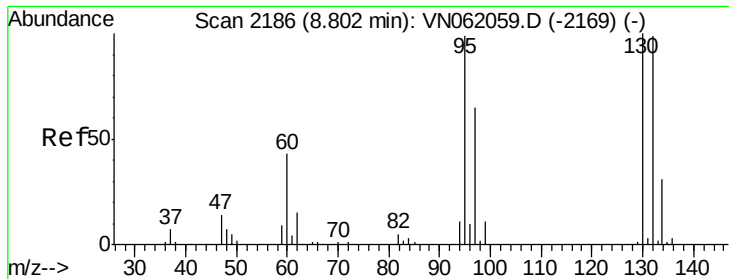
#39
Methylcyclohexane
Concen: 3.841 ug/l
RT: 8.80 min Scan# 2185
Delta R.T. -0.25 min
Lab File: VN062150.D
Acq: 26 Jun 2020 19:27

Tgt Ion: 83 Resp: 17012
Ion Ratio Lower Upper
83 100
55 0.0 57.0 85.6#
98 194.5 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: 456.447 ug/l

RT: 8.80 min Scan# 2186

Delta R.T. -0.00 min

Lab File: VN062150.D

Acq: 26 Jun 2020 19:27

Instrument :

MSVOA_N

ClientSampleId :

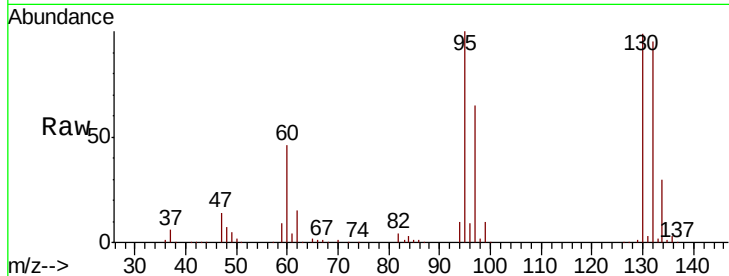
20BR-20200622

Tot Ion:130 Resp: 1418692

Ion Ratio Lower Upper

130 100

95 100.8 0.0 197.8



Abundance Ion 129.80 (129.50 to 130.50): VN062150.D (-2093) (-)

Ion 94.90 (94.60 to 95.60): VN062150.D (-2093) (-)

8.80

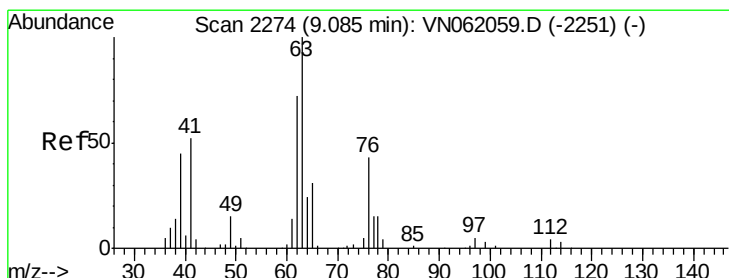
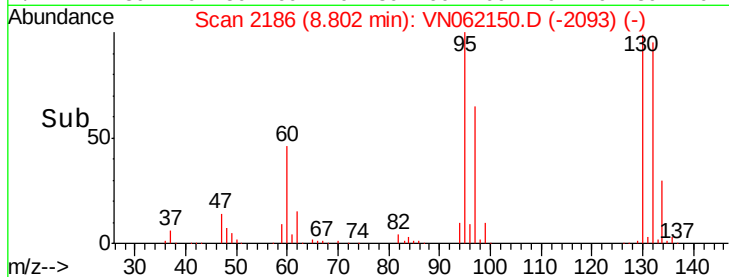
600000

400000

200000

0

Time-->



#45

1,2-Dichloropropane

Concen: 1.104 ug/l

RT: 8.80 min Scan# 2185

Delta R.T. -0.29 min

Lab File: VN062150.D

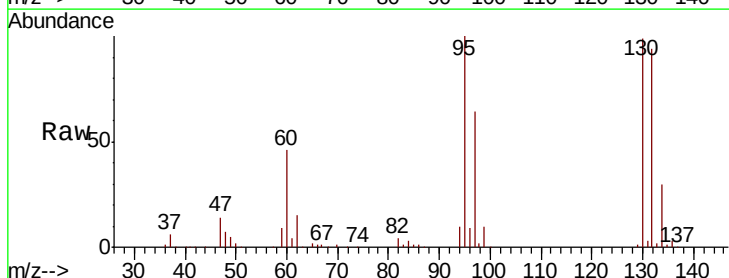
Acq: 26 Jun 2020 19:27

Tgt Ion: 63 Resp: 3355

Ion Ratio Lower Upper

63 100

65 465.5 25.0 37.4#



Abundance Ion 62.90 (62.60 to 63.60): VN062150.D (-2181) (-)

Ion 64.90 (64.60 to 65.60): VN062150.D (-2181) (-)

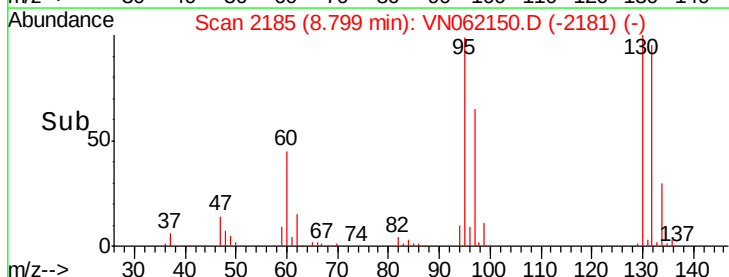
8.80

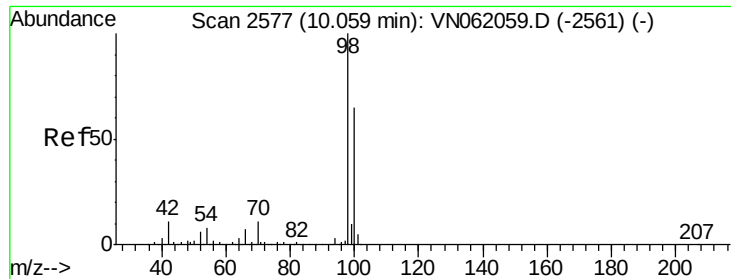
10000

5000

0

Time-->





#50

Toluene-d8

Concen: 48.900 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN062150.D

Acq: 26 Jun 2020 19:27

Instrument :

MSVOA_N

ClientSampleId :

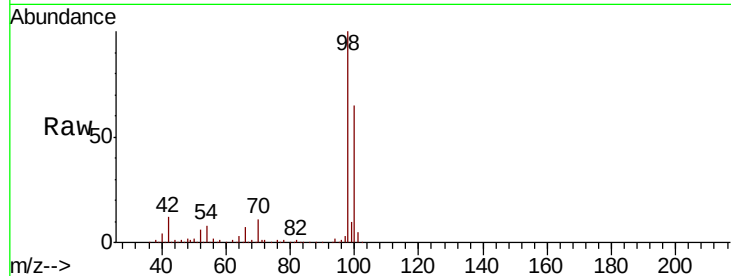
20BR-20200622

Tot Ion: 98 Resp: 504349

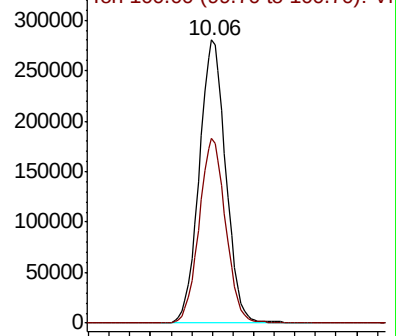
Ion Ratio Lower Upper

98 100

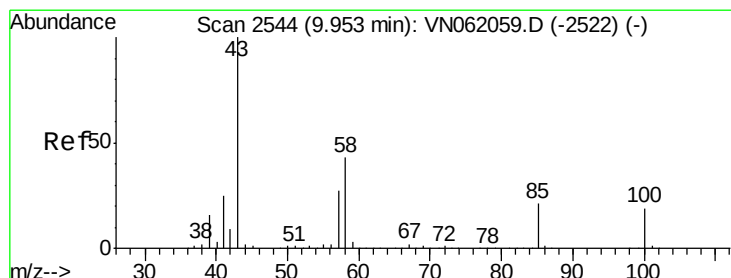
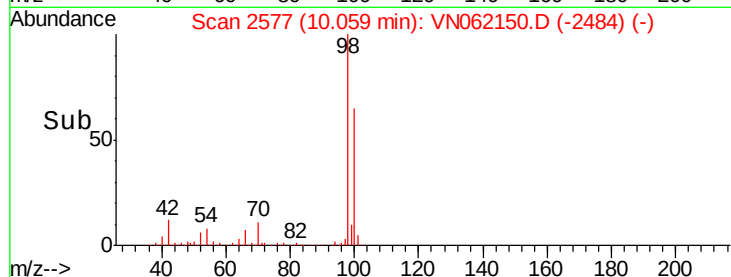
100 64.8 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN062150.D (-2484) (-)



Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.622 ug/l

RT: 10.06 min Scan# 2576

Delta R.T. 0.10 min

Lab File: VN062150.D

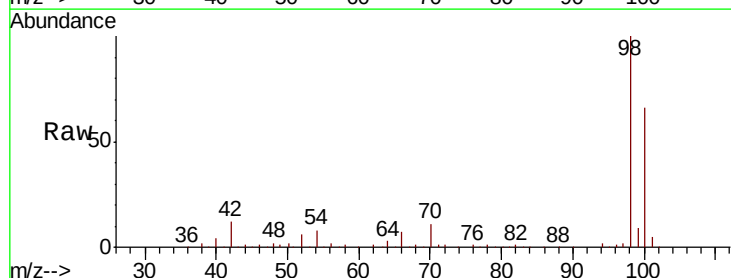
Acq: 26 Jun 2020 19:27

Tgt Ion: 43 Resp: 1983

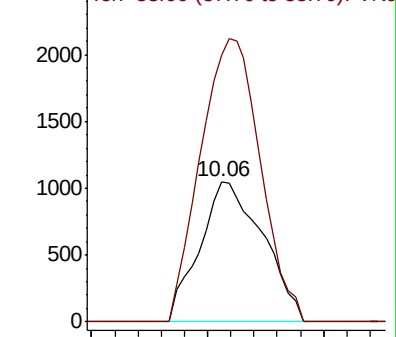
Ion Ratio Lower Upper

43 100

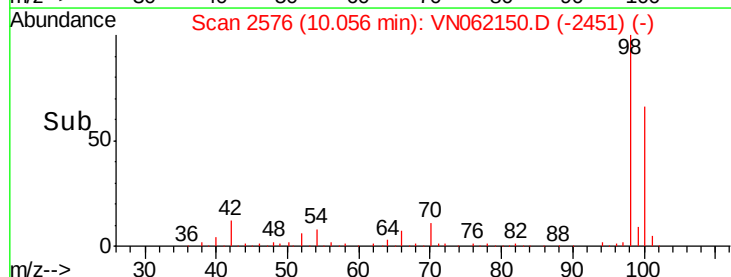
58 191.3 34.2 51.2#

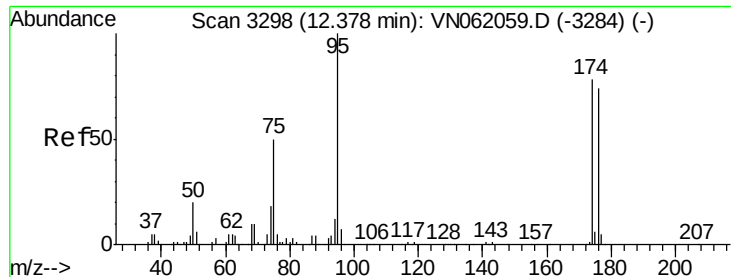


Abundance Ion 43.00 (42.70 to 43.70): VN062150.D (-2451) (-)



Time-->

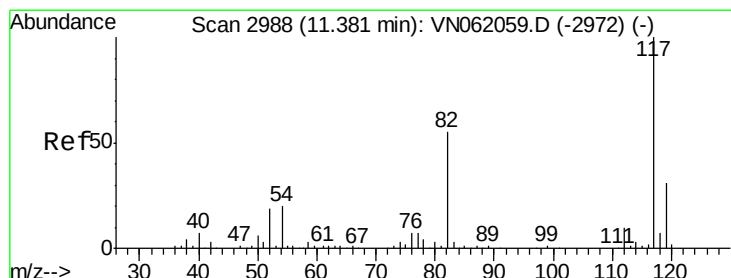
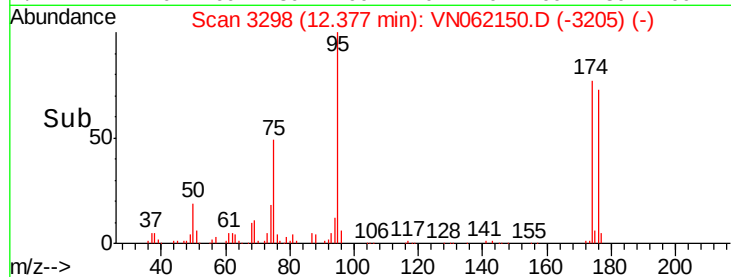
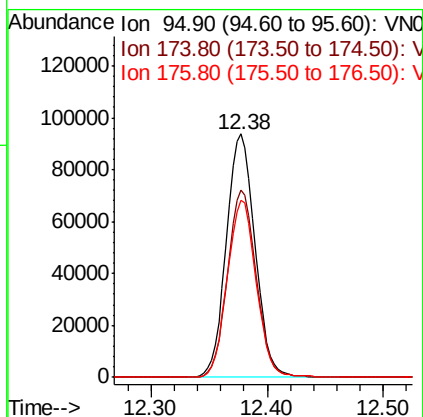
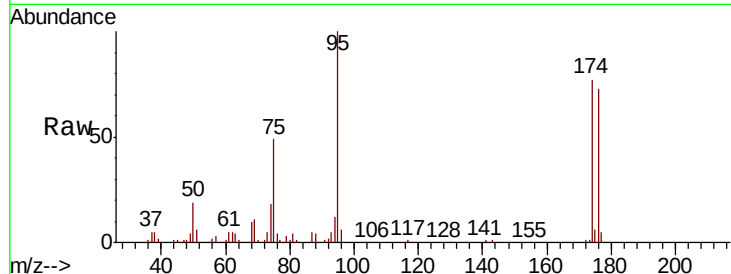




#62
4-Bromofluorobenzene
Concen: 45.955 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.00 min
Lab File: VN062150.D
Acq: 26 Jun 2020 19:27

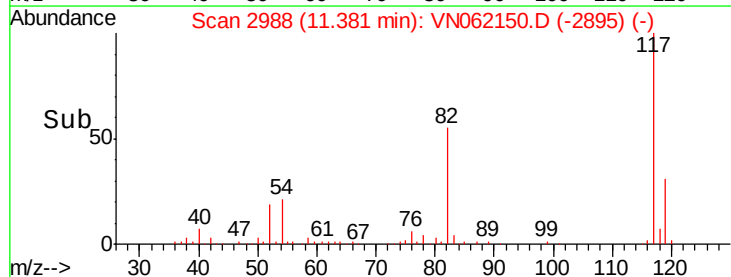
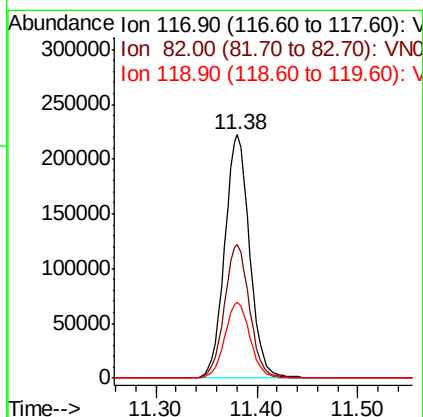
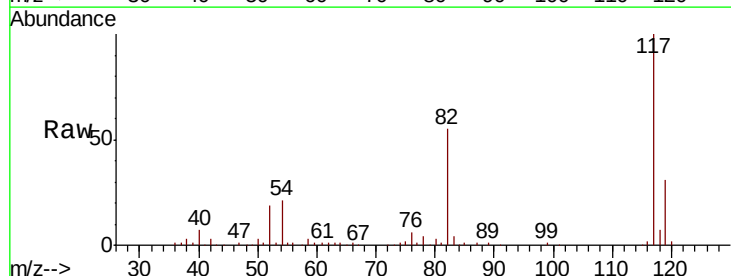
Instrument :
MSVOA_N
ClientSampleId :
20BR-20200622

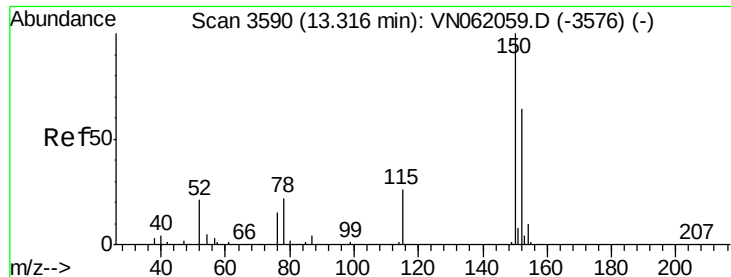
Tot Ion	Ratio	Lower	Upper
95	100		
174	76.4	0.0	154.8
176	73.3	0.0	147.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN062150.D
Acq: 26 Jun 2020 19:27

Tgt Ion	Ratio	Lower	Upper
117	100		
82	55.1	43.8	65.8
119	30.9	25.2	37.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN062150.D

Acq: 26 Jun 2020 19:27

Instrument :

MSVOA_N

ClientSampleId :

20BR-20200622

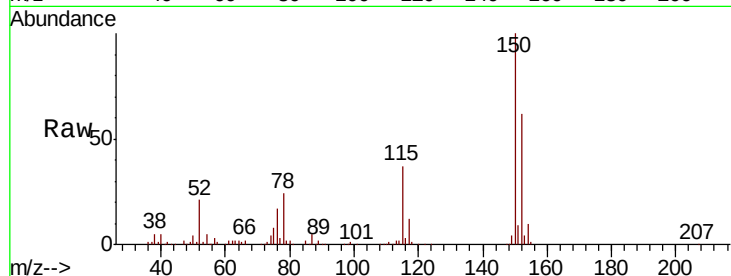
Tot Ion:152 Resp: 137542

Ion Ratio Lower Upper

152 100

115 59.4 29.5 88.5

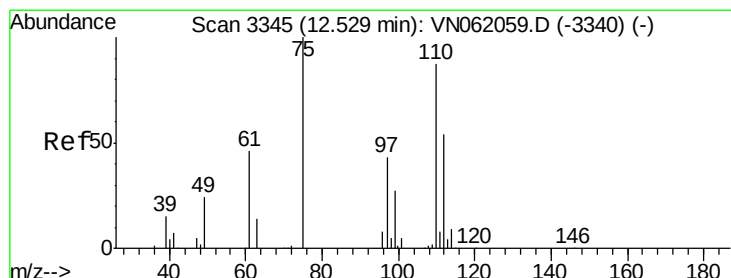
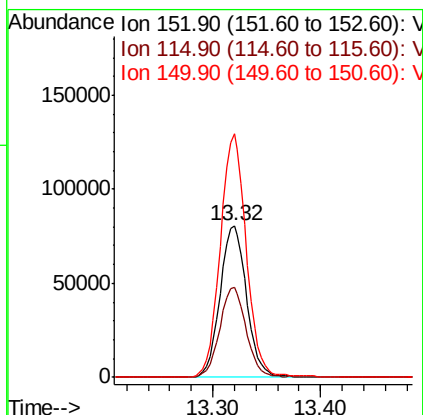
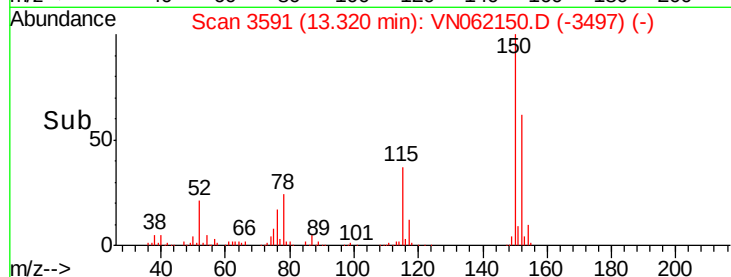
150 157.8 0.0 351.4



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: 24.537 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062150.D

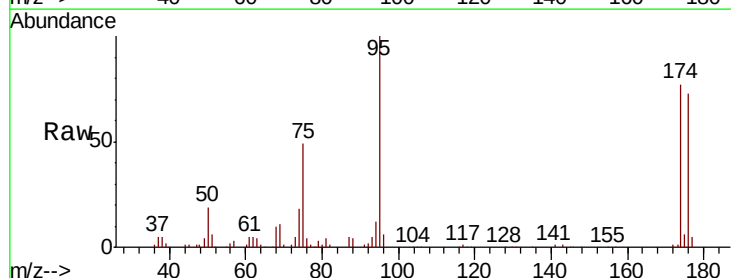
Acq: 26 Jun 2020 19:27

Tgt Ion: 75 Resp: 79446

Ion Ratio Lower Upper

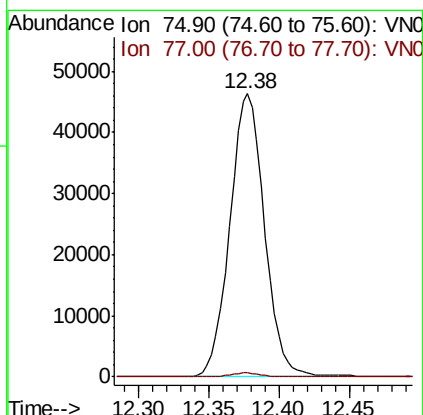
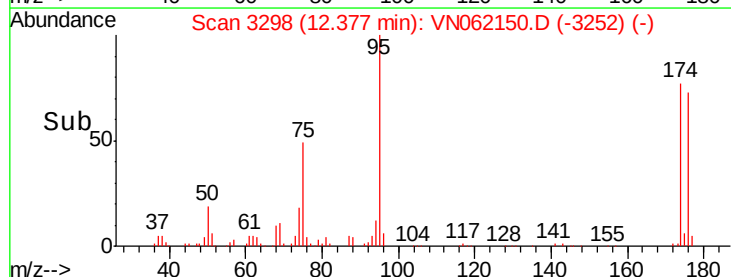
75 100

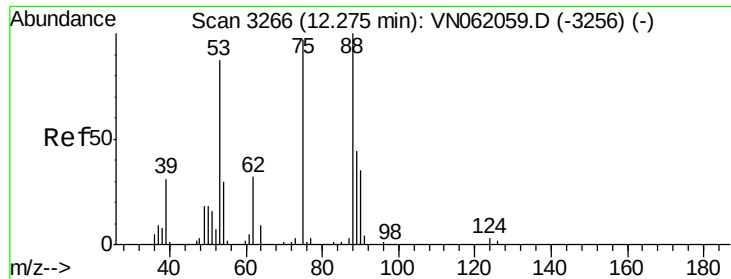
77 1.2 0.0 0.0#



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: 71.656 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062150.D

Acq: 26 Jun 2020 19:27

Instrument :

MSVOA_N

ClientSampleId :

20BR-20200622

Tot Ion: 75 Resp: 79446

Ion Ratio Lower Upper

75 100

53 0.0 72.0 108.0#

89 0.0 36.9 55.3#

