

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062620\
 Data File : VN062149.D
 Acq On : 26 Jun 2020 19:02
 Operator : JC/MD
 Sample : L3088-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 08BR-20200622

Quant Time: Jun 27 03:45:00 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	202848	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	375753	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	365050	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	131012	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	145232	51.02	ug/l	0.00
Spiked Amount			Recovery	=	102.04%	
35) Dibromofluoromethane	7.55	113	121761	50.51	ug/l	0.00
Spiked Amount			Recovery	=	101.02%	
50) Toluene-d8	10.06	98	478670	49.67	ug/l	0.00
Spiked Amount			Recovery	=	99.34%	
62) 4-Bromofluorobenzene	12.38	95	154323	47.40	ug/l	0.00
Spiked Amount			Recovery	=	94.80%	

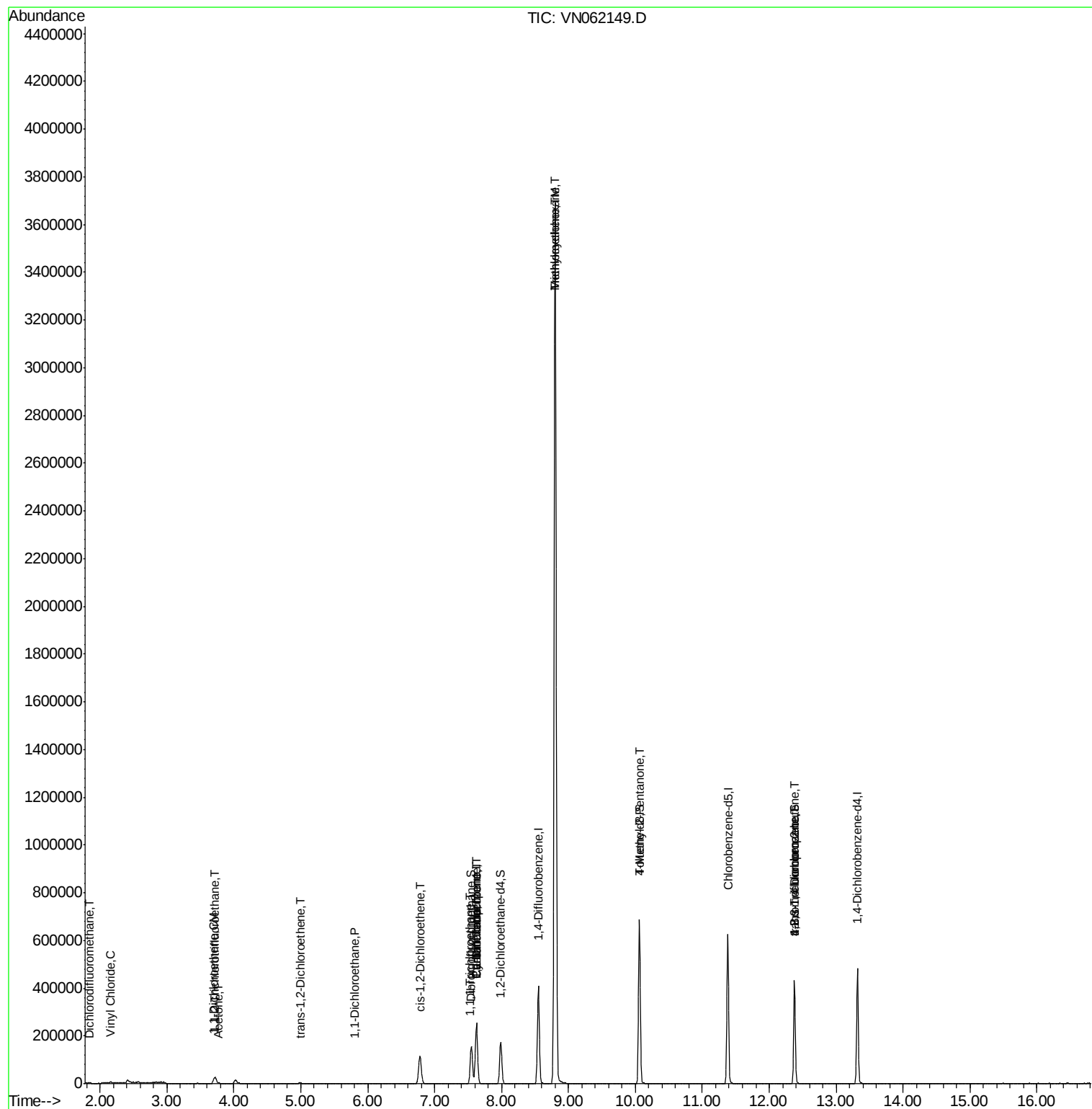
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.83	85	1834	0.800	ug/l	74
3) Chloromethane	2.03	50	1405	Below Cal	#	86
4) Vinyl Chloride	2.16	62	3850	1.066	ug/l	89
9) 1,1,2-Trichlorotrifluoroet	3.72	101	16262	6.980	ug/l	98
12) 1,1-Dichloroethene	3.69	96	3088	1.326	ug/l	84
16) Acetone	3.78	43	3857	0.270	ug/l	91
20) Methylene Chloride	4.50	84	367	Below Cal	#	64
21) trans-1,2-Dichloroethene	5.00	96	2139	0.806	ug/l	# 79
24) 1,1-Dichloroethane	5.80	63	3341	0.719	ug/l	# 82
27) cis-1,2-Dichloroethene	6.78	96	79412	26.597	ug/l	88
31) Cyclohexane	7.62	56	4585	1.166	ug/l	# 5
32) 1,1,1-Trichloroethane	7.52	97	1463	0.367	ug/l	# 34
36) 1,1-Dichloropropene	7.62	75	17211	4.557	ug/l	# 49
38) Carbon Tetrachloride	7.63	117	20435	5.739	ug/l	# 16
39) Methylcyclohexane	8.80	83	16689	4.033	ug/l	# 1
44) Trichloroethene	8.80	130	1372616	472.683	ug/l	99
51) 4-Methyl-2-Pentanone	10.06	43	1904	0.639	ug/l	# 1
76) 1,2,3-Trichloropropane	12.38	75	76739	24.882	ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.38	75	76739	72.664	ug/l	# 13

(#) = 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# 1820

Delta R.T. 0.00 min

Lab File: VN062149.D

Acq: 26 Jun 2020 19:02

Instrument :

MSVOA_N

ClientSampleId :

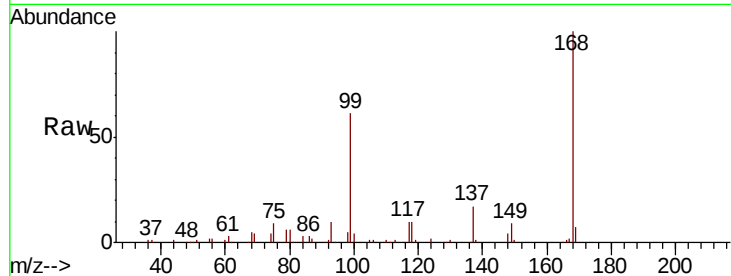
08BR-20200622

Tot Ion:168 Resp: 202848

Ion Ratio Lower Upper

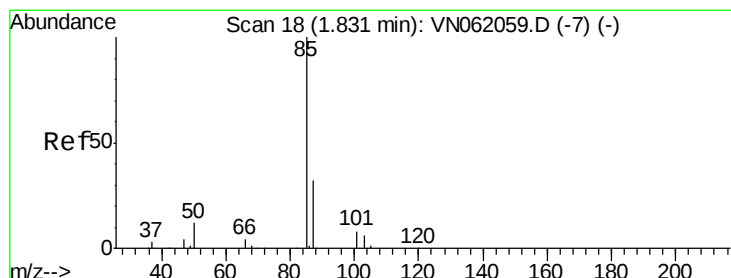
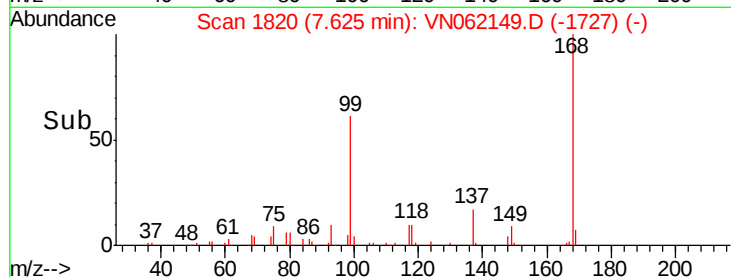
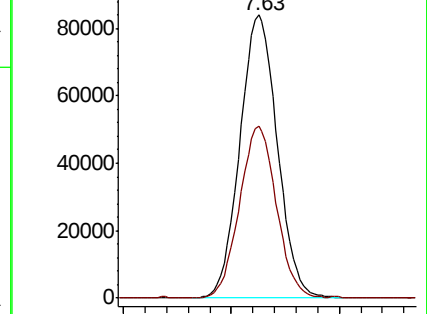
168 100

99 60.8 45.8 68.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#2

Dichlorodifluoromethane

Concen: 0.800 ug/l

RT: 1.83 min Scan# 18

Delta R.T. 0.00 min

Lab File: VN062149.D

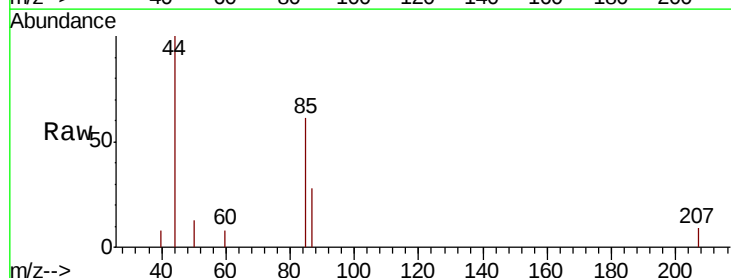
Acq: 26 Jun 2020 19:02

Tgt Ion: 85 Resp: 1834

Ion Ratio Lower Upper

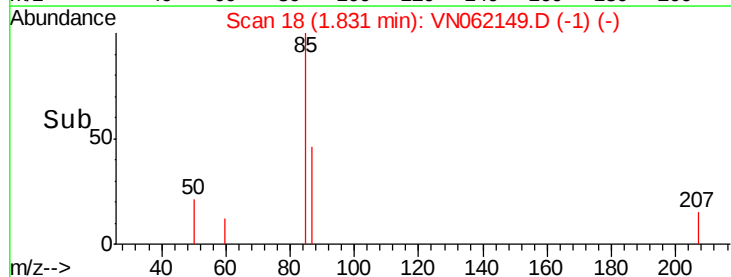
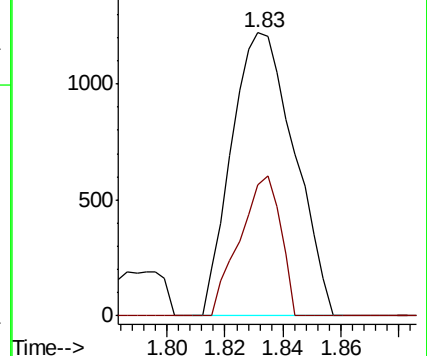
85 100

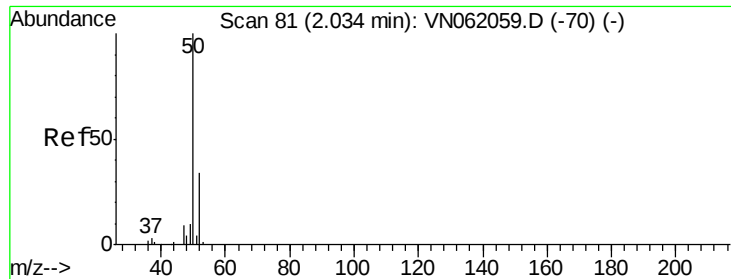
87 46.4 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VN0

Ion 86.90 (86.60 to 87.60): VN0





#3

Chloromethane

Concen: Below Cal

RT: 2.03 min Scan# 80

Delta R.T. -0.00 min

Lab File: VN062149.D

Acq: 26 Jun 2020 19:02

Instrument :

MSVOA_N

ClientSampleId :

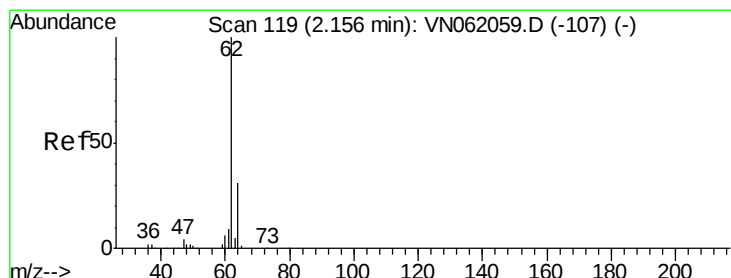
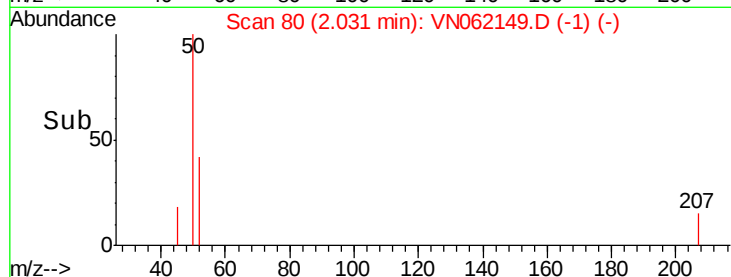
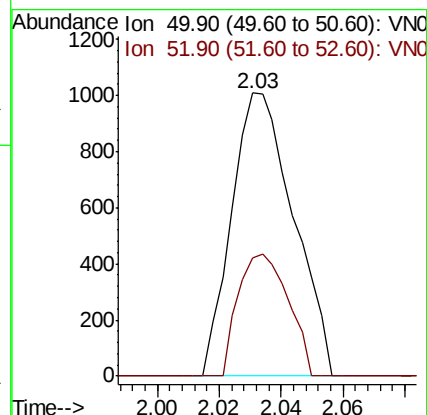
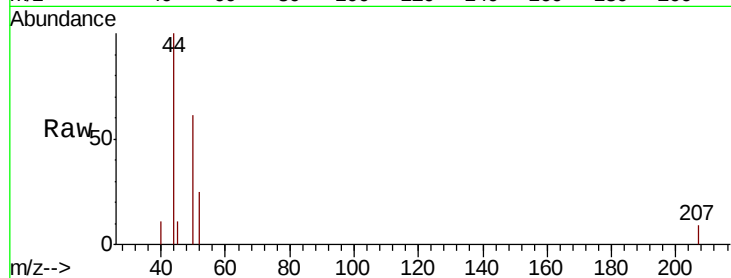
08BR-20200622

Tot Ion: 50 Resp: 1405

Ion Ratio Lower Upper

50 100

52 42.0 27.0 40.6#



#4

Vinyl Chloride

Concen: 1.066 ug/l

RT: 2.16 min Scan# 120

Delta R.T. 0.00 min

Lab File: VN062149.D

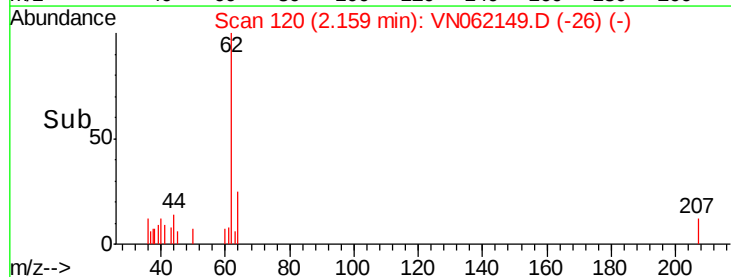
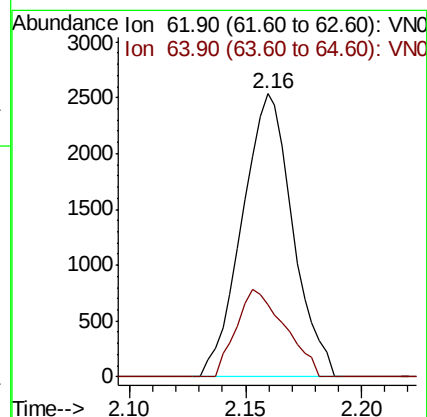
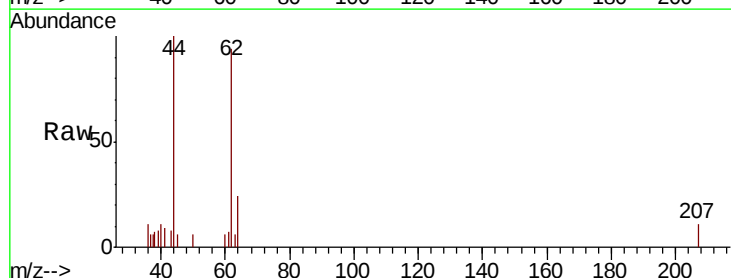
Acq: 26 Jun 2020 19:02

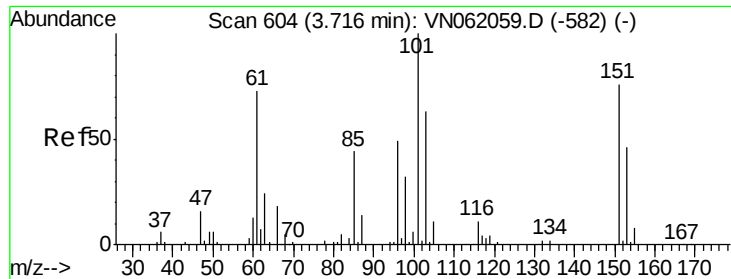
Tgt Ion: 62 Resp: 3850

Ion Ratio Lower Upper

62 100

64 25.3 25.1 37.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 6.980 ug/l

RT: 3.72 min Scan# 606

Delta R.T. 0.01 min

Lab File: VN062149.D

Acq: 26 Jun 2020 19:02

Instrument :

MSVOA_N

ClientSampleId :

08BR-20200622

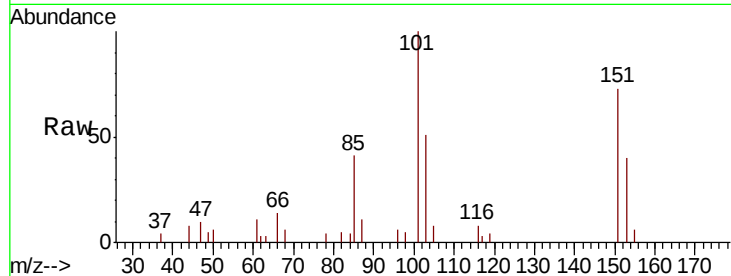
Tot Ion:101 Resp: 16262

Ion Ratio Lower Upper

101 100

85 42.7 34.5 51.7

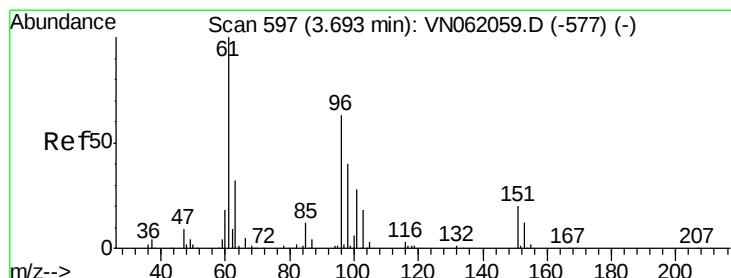
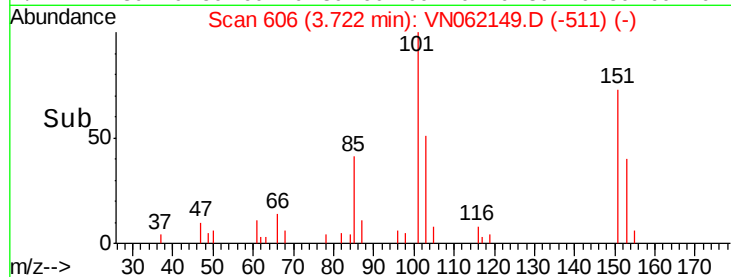
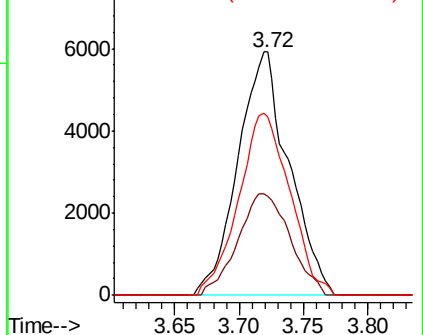
151 75.2 57.8 86.8



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN

Ion 150.80 (150.50 to 151.50): V



#12

1,1-Dichloroethene

Concen: 1.326 ug/l

RT: 3.69 min Scan# 597

Delta R.T. 0.00 min

Lab File: VN062149.D

Acq: 26 Jun 2020 19:02

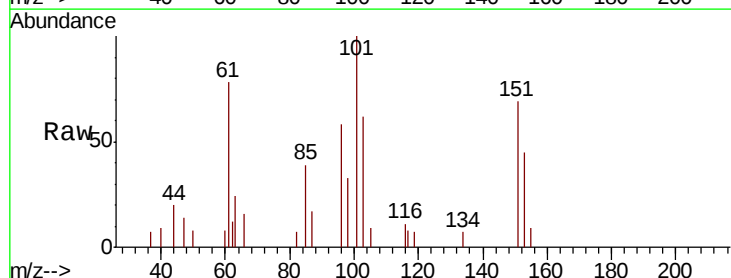
Tgt Ion: 96 Resp: 3088

Ion Ratio Lower Upper

96 100

61 134.1 126.7 190.1

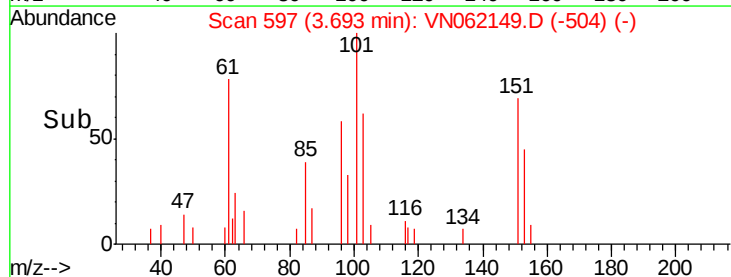
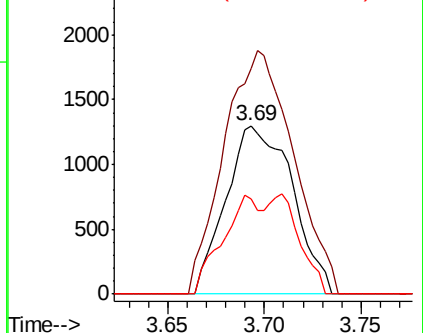
98 56.3 51.0 76.4

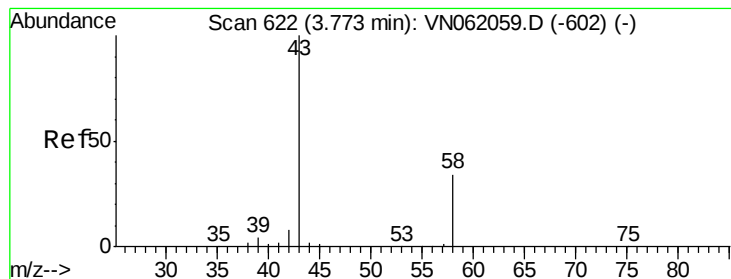


Abundance Ion 95.90 (95.60 to 96.60): VN

Ion 60.90 (60.60 to 61.60): VN

Ion 97.90 (97.60 to 98.60): VN





#16

Acetone

Concen: 0.270 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.01 min

Lab File: VN062149.D

Acq: 26 Jun 2020 19:02

Instrument :

MSVOA_N

ClientSampleId :

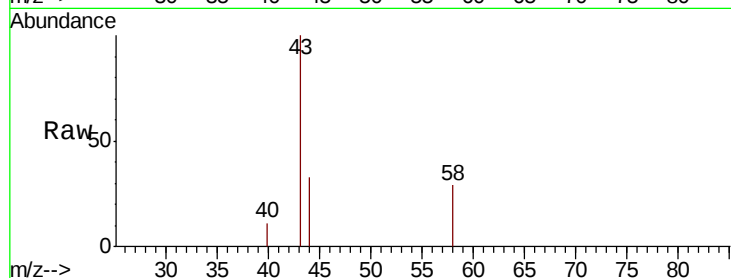
08BR-20200622

Tot Ion: 43 Resp: 3857

Ion Ratio Lower Upper

43 100

58 29.1 27.5 41.3



Abundance Ion 43.00 (42.70 to 43.70): VN062149.D (-529) (-)

Ion 58.00 (57.70 to 58.70): VN062149.D (-529) (-)

3.78

1500

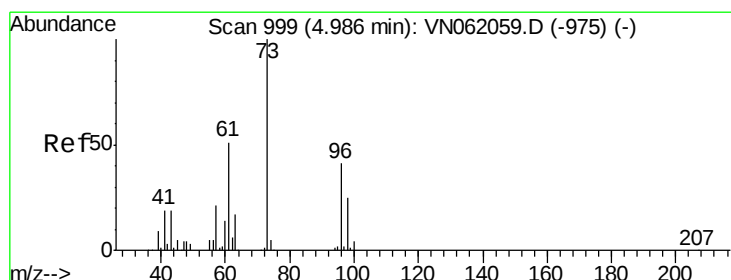
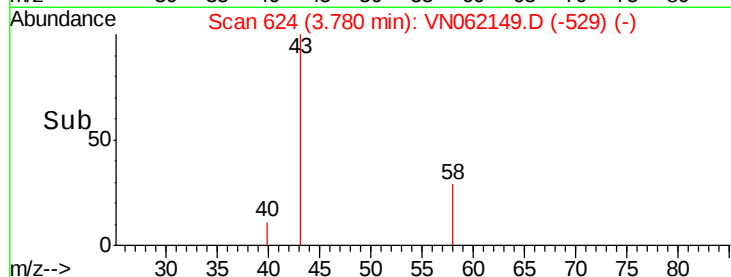
1000

500

0

Time-->

3.70 3.75 3.80 3.85



#21

trans-1,2-Dichloroethene

Concen: 0.806 ug/l

RT: 5.00 min Scan# 1004

Delta R.T. 0.02 min

Lab File: VN062149.D

Acq: 26 Jun 2020 19:02

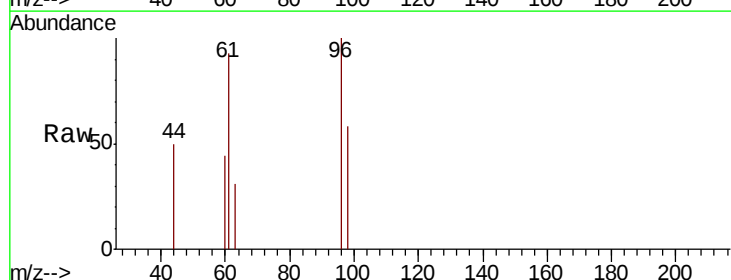
Tgt Ion: 96 Resp: 2139

Ion Ratio Lower Upper

96 100

61 93.5 101.4 152.2#

98 57.6 49.3 73.9



Abundance Ion 95.90 (95.60 to 96.60): VN062149.D (-906) (-)

Ion 60.90 (60.60 to 61.60): VN062149.D (-906) (-)

Ion 97.90 (97.60 to 98.60): VN062149.D (-906) (-)

5.00

1200

1000

800

600

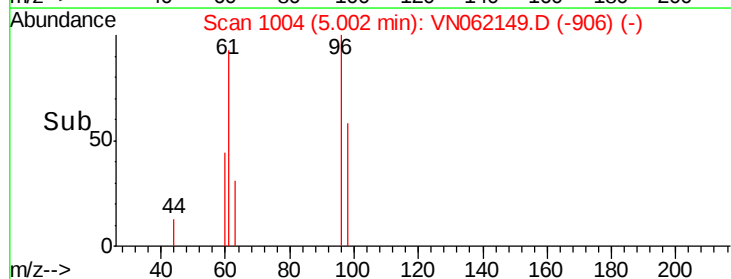
400

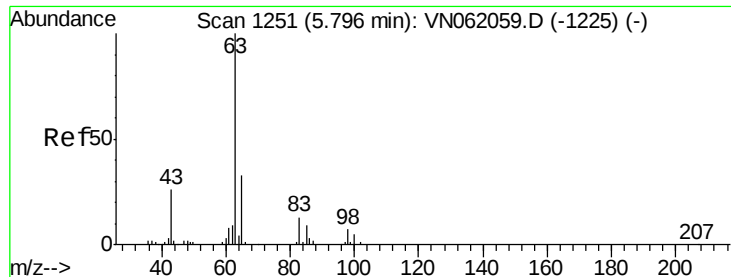
200

0

Time-->

4.95 5.00





#24

1,1-Dichloroethane

Concen: 0.719 ug/l

RT: 5.80 min Scan# 1252

Delta R.T. 0.00 min

Lab File: VN062149.D

Acq: 26 Jun 2020 19:02

Instrument :

MSVOA_N

ClientSampleId :

08BR-20200622

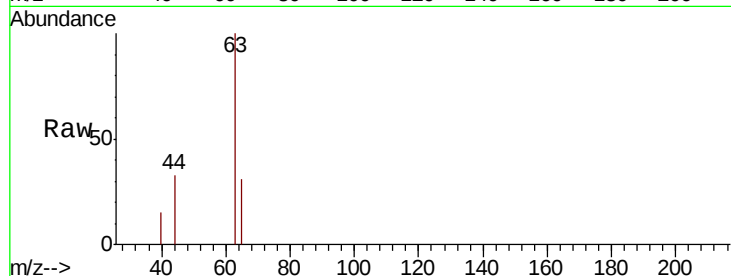
Tot Ion: 63 Resp: 3341

Ion Ratio Lower Upper

63 100

98 0.0 3.6 10.9#

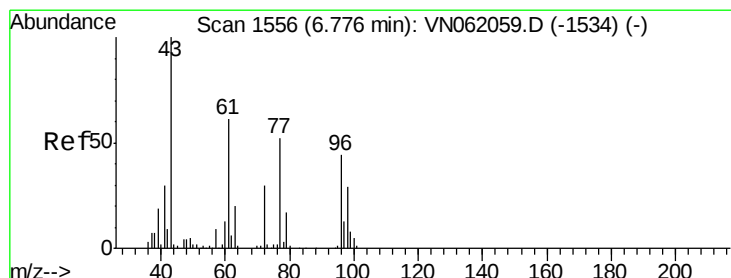
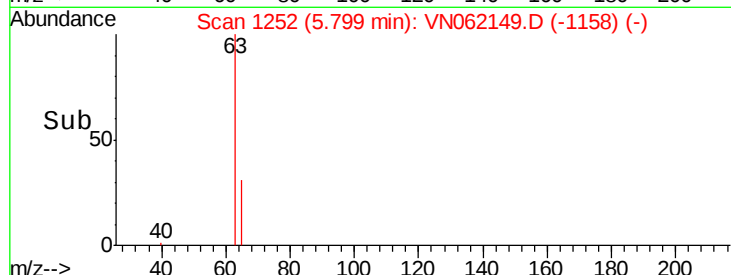
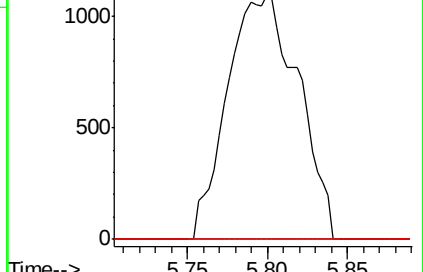
100 0.0 2.4 7.1#



Abundance Ion 62.90 (62.60 to 63.60): VN062149.D (-1225) (-)

Ion 97.90 (97.60 to 98.60): VN062149.D (-1225) (-)

Ion 99.90 (99.60 to 100.60): VN062149.D (-1225) (-)



#27

cis-1,2-Dichloroethene

Concen: 26.597 ug/l

RT: 6.78 min Scan# 1558

Delta R.T. 0.01 min

Lab File: VN062149.D

Acq: 26 Jun 2020 19:02

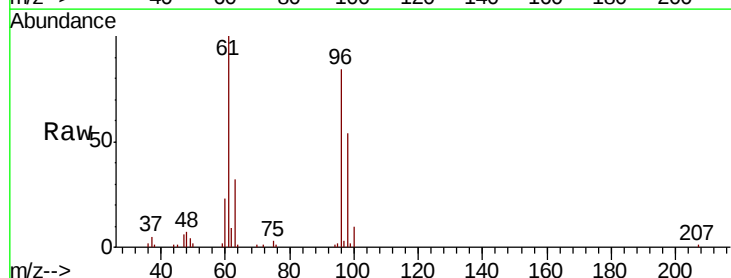
Tgt Ion: 96 Resp: 79412

Ion Ratio Lower Upper

96 100

61 119.9 0.0 280.4

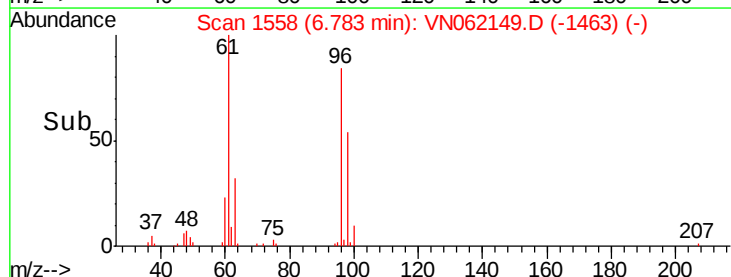
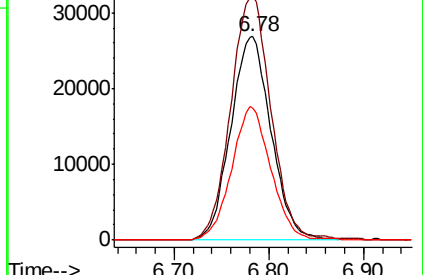
98 63.6 0.0 129.4

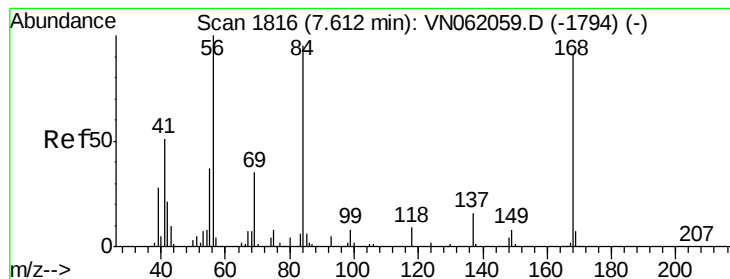


Abundance Ion 95.90 (95.60 to 96.60): VN062149.D (-1534) (-)

Ion 60.90 (60.60 to 61.60): VN062149.D (-1534) (-)

Ion 97.90 (97.60 to 98.60): VN062149.D (-1534) (-)





#31

Cvclohexane

Concen: 1.166 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. 0.01 min

Lab File: VN062149.D

Acq: 26 Jun 2020 19:02

Instrument :

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ClientSampleId :

08BR-20200622

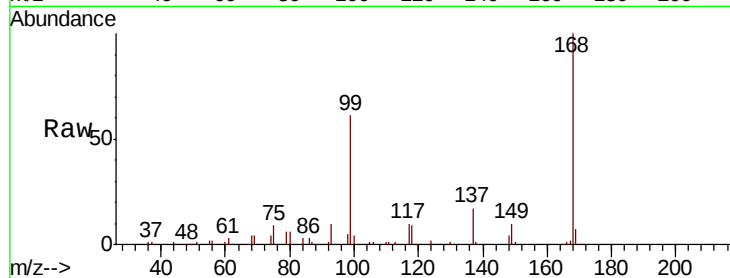
Tot Ion: 56 Resp: 4585

Ion Ratio Lower Upper

56 100

69 171.2 28.0 42.0#

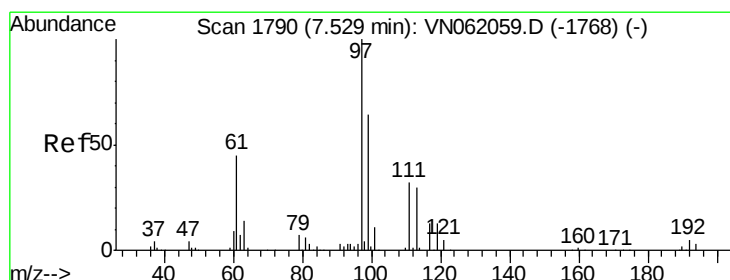
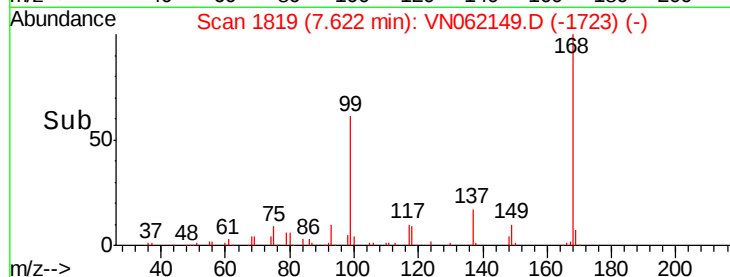
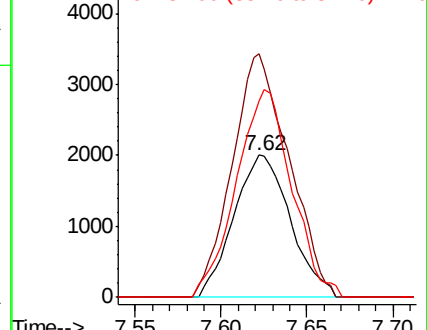
84 138.1 76.1 114.1#



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



#32

1,1,1-Trichloroethane

Concen: 0.367 ug/l

RT: 7.52 min Scan# 1788

Delta R.T. -0.01 min

Lab File: VN062149.D

Acq: 26 Jun 2020 19:02

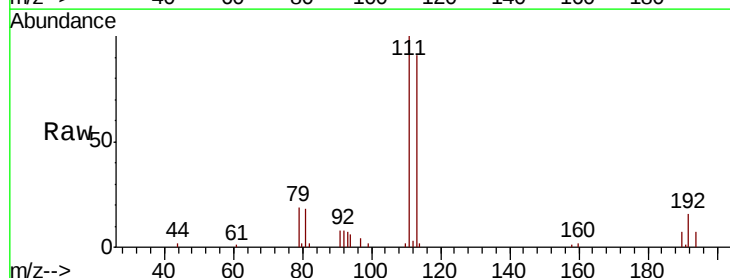
Tgt Ion: 97 Resp: 1463

Ion Ratio Lower Upper

97 100

99 0.0 51.0 76.4#

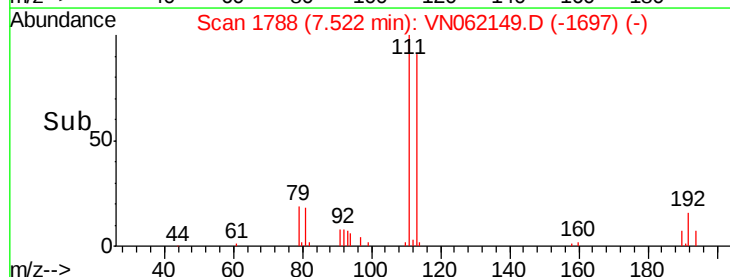
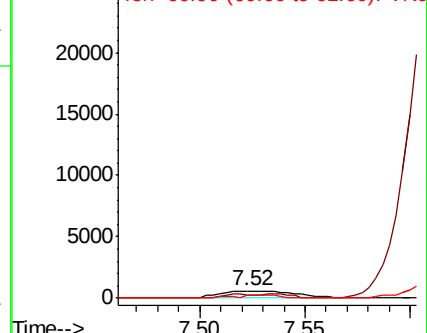
61 16.9 36.2 54.2#

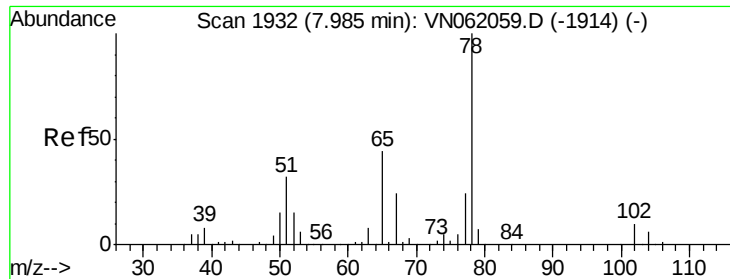


Abundance Ion 96.90 (96.60 to 97.60): VN0

Ion 98.90 (98.60 to 99.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

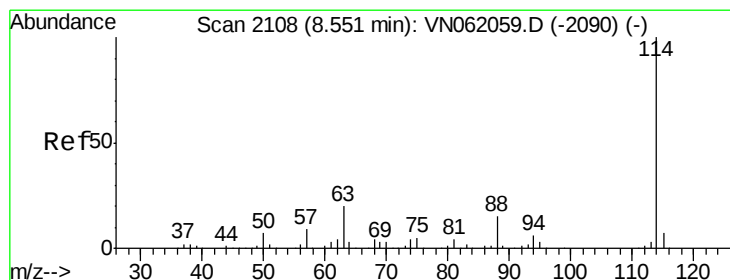
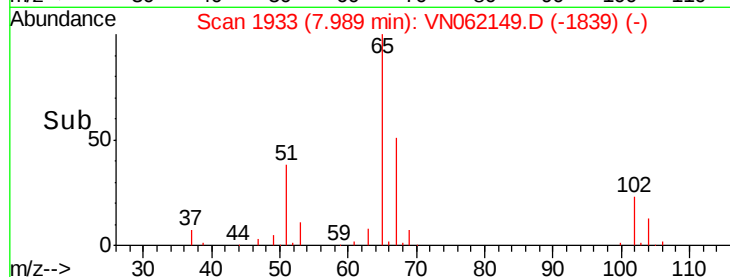
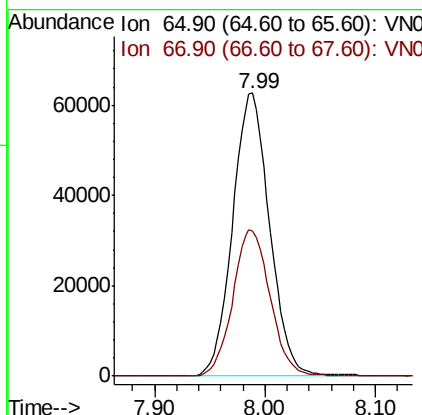
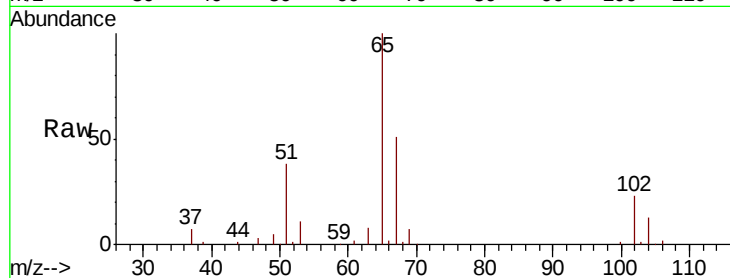




#33
 1,2-Dichloroethane-d4
 Concen: 51.019 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. 0.00 min
 Lab File: VN062149.D
 Acq: 26 Jun 2020 19:02

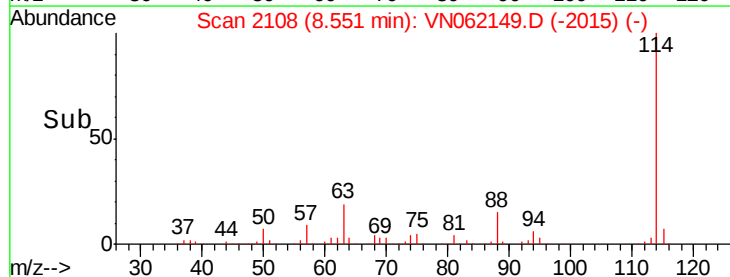
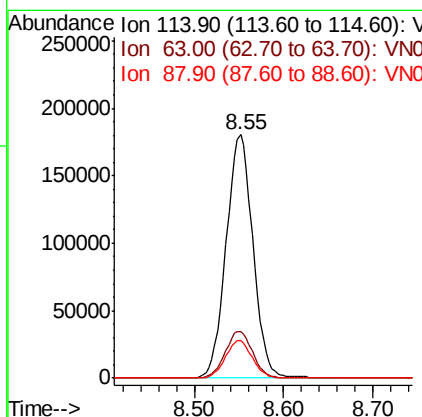
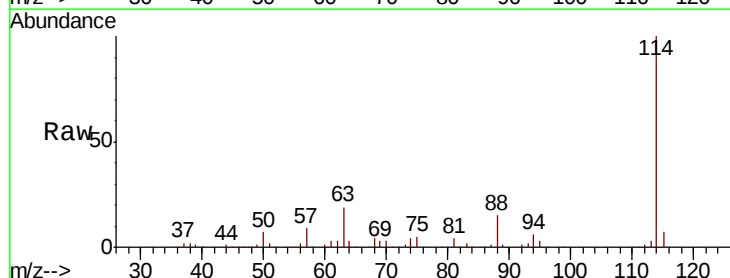
Instrument :
 MSVOA_N
 ClientSampleId :
 08BR-20200622

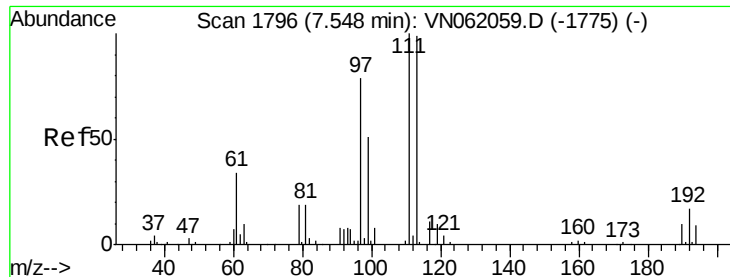
Tot Ion: 65 Resp: 145232
 Ion Ratio Lower Upper
 65 100
 67 52.3 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN062149.D
 Acq: 26 Jun 2020 19:02

Tgt Ion: 114 Resp: 375753
 Ion Ratio Lower Upper
 114 100
 63 19.2 0.0 39.2
 88 15.2 0.0 30.8

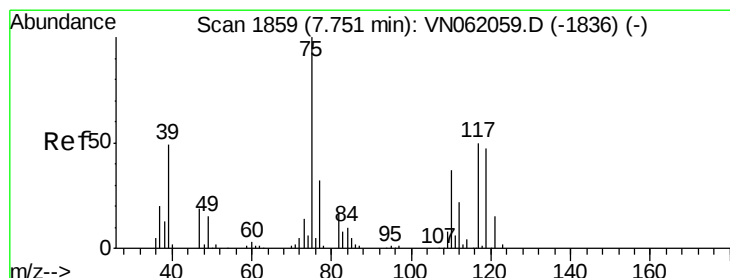
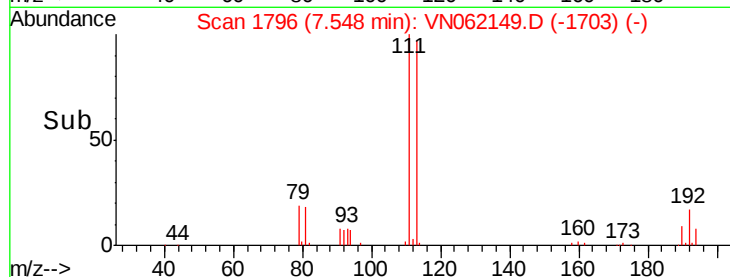
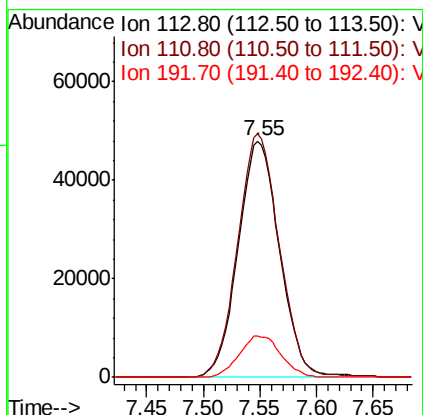
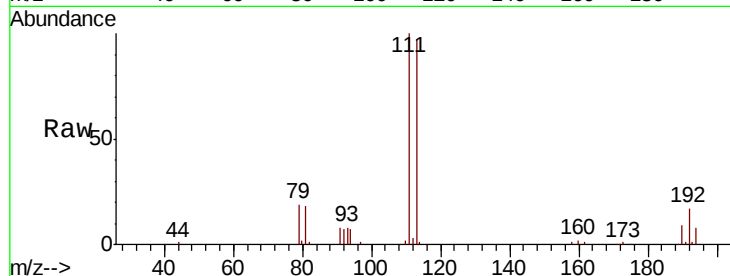




#35
 Dibromofluoromethane
 Concen: 50.510 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. 0.00 min
 Lab File: VN062149.D
 Acq: 26 Jun 2020 19:02

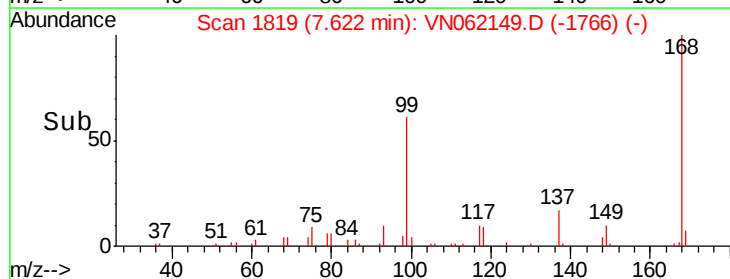
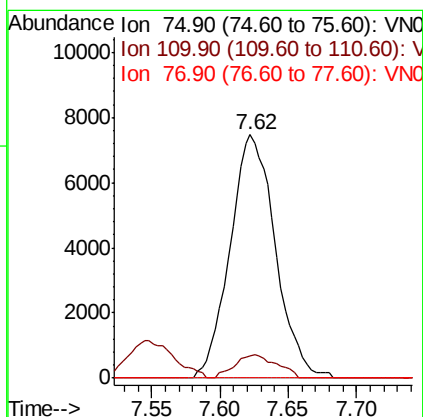
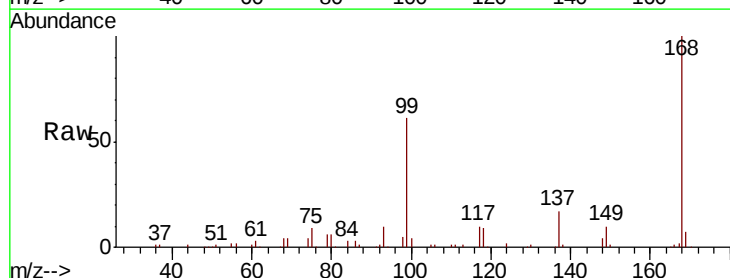
Instrument :
 MSVOA_N
 ClientSampleId :
 08BR-20200622

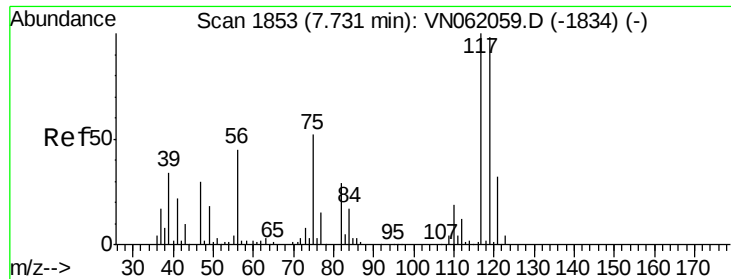
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.9	82.2	123.4
192	17.8	14.0	21.0



#36
 1,1-Dichloropropene
 Concen: 4.557 ug/l
 RT: 7.62 min Scan# 1819
 Delta R.T. -0.13 min
 Lab File: VN062149.D
 Acq: 26 Jun 2020 19:02

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.9	17.9	53.8#
77	0.0	24.9	37.3#

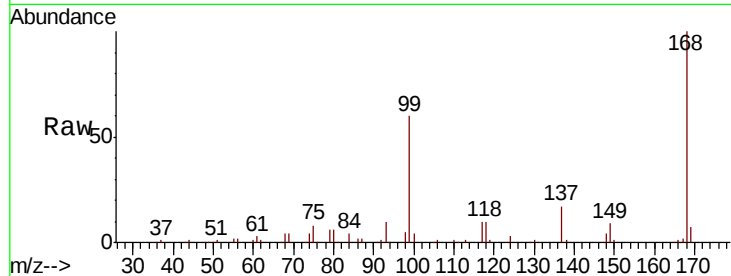




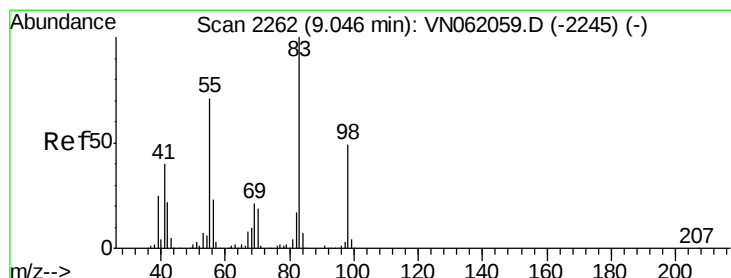
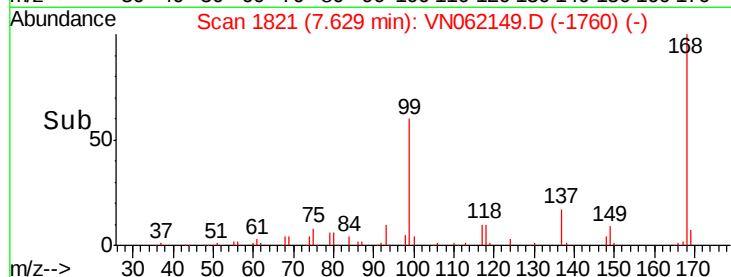
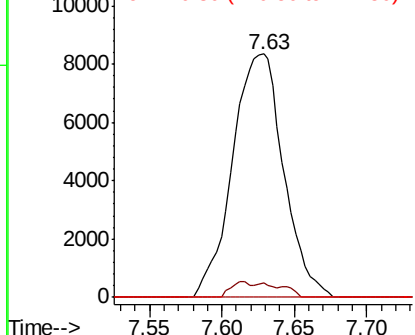
#38
Carbon Tetrachloride
Concen: 5.739 ug/l
RT: 7.63 min Scan# 1821
Delta R.T. -0.10 min
Lab File: VN062149.D
Acq: 26 Jun 2020 19:02

Instrument :
MSVOA_N
ClientSampleId :
08BR-20200622

Tot Ion:117 Resp: 20435
Ion Ratio Lower Upper
117 100
119 5.8 78.2 117.2#
121 0.0 25.8 38.6#

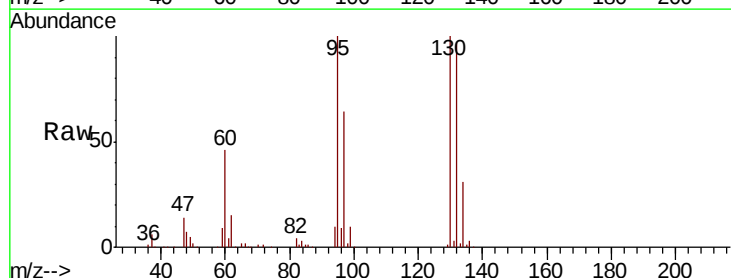


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

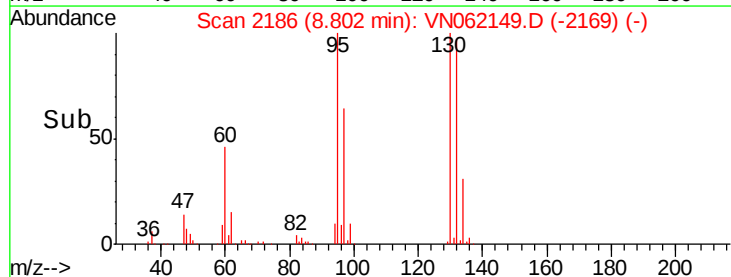
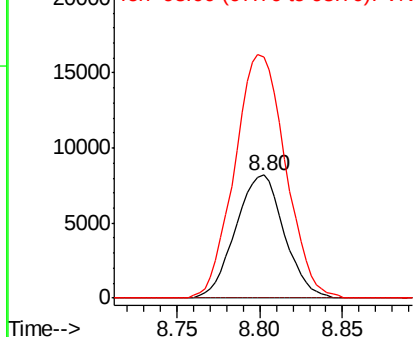


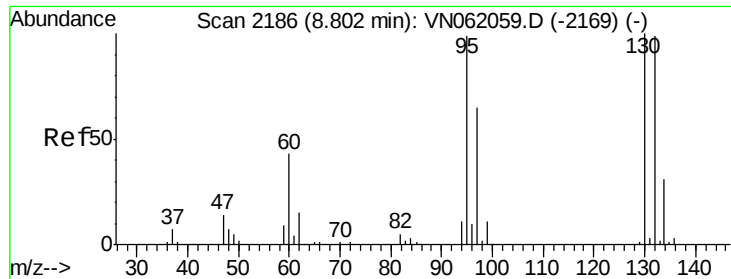
#39
Methylcyclohexane
Concen: 4.033 ug/l
RT: 8.80 min Scan# 2186
Delta R.T. -0.24 min
Lab File: VN062149.D
Acq: 26 Jun 2020 19:02

Tgt Ion: 83 Resp: 16689
Ion Ratio Lower Upper
83 100
55 0.0 57.0 85.6#
98 195.6 39.0 58.6#



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





#44

Trichloroethene

Concen: 472.683 ug/l

RT: 8.80 min Scan# 2186

Delta R.T. 0.00 min

Lab File: VN062149.D

Acq: 26 Jun 2020 19:02

Instrument :

MSVOA_N

ClientSampleId :

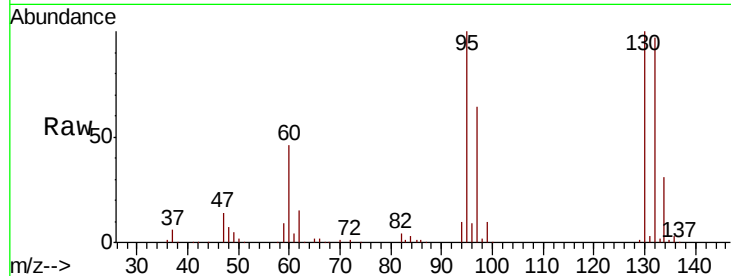
08BR-20200622

Tot Ion:130 Resp: 1372616

Ion Ratio Lower Upper

130 100

95 100.3 0.0 197.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN

8.80

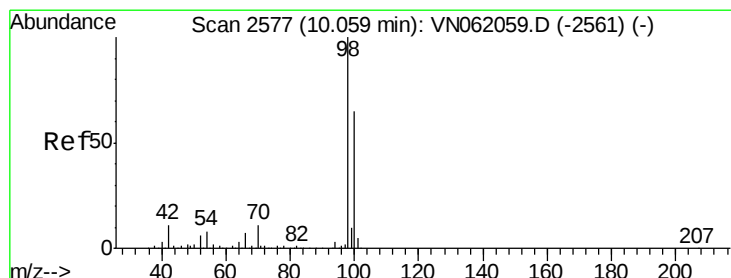
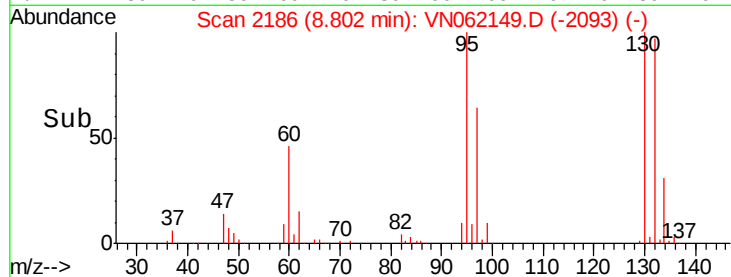
600000

400000

200000

0

Time-->



#50

Toluene-d8

Concen: 49.675 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN062149.D

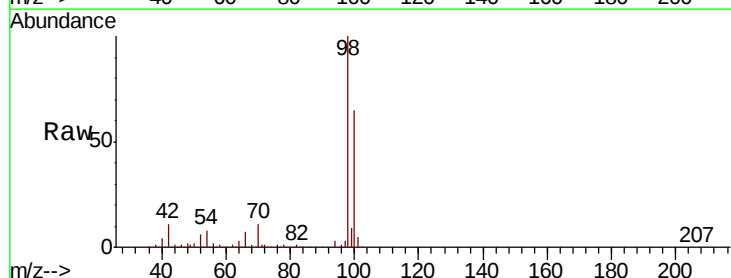
Acq: 26 Jun 2020 19:02

Tgt Ion: 98 Resp: 478670

Ion Ratio Lower Upper

98 100

100 65.3 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN

10.06

300000

250000

200000

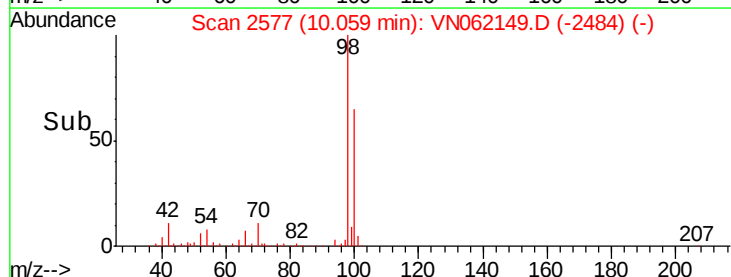
150000

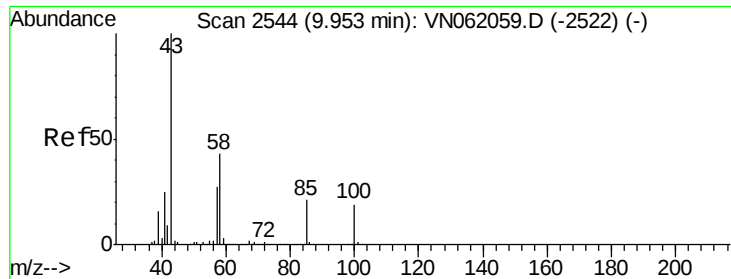
100000

50000

0

Time-->





#51

4-Methyl-2-Pentanone

Concen: 0.639 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.11 min

Lab File: VN062149.D

Acq: 26 Jun 2020 19:02

Instrument :

MSVOA_N

ClientSampleId :

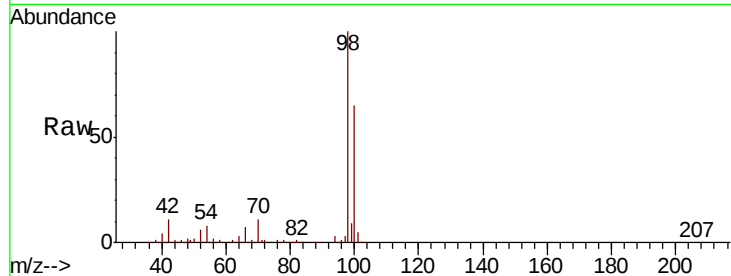
08BR-20200622

Tot Ion: 43 Resp: 1904

Ion Ratio Lower Upper

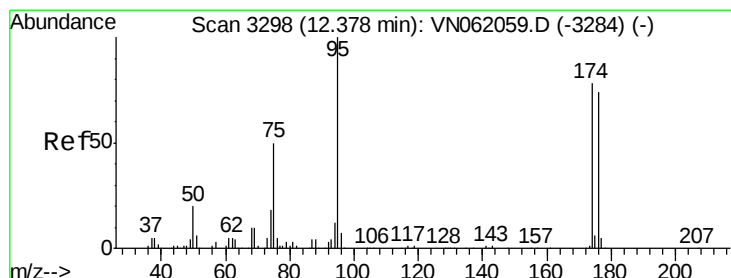
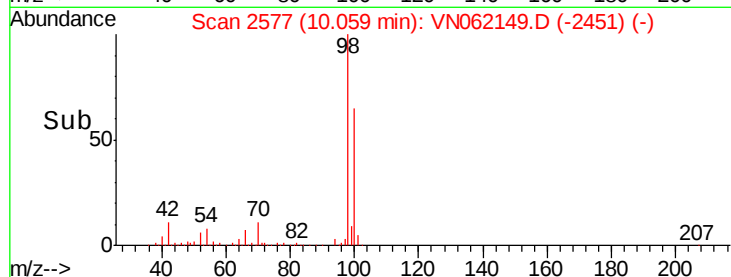
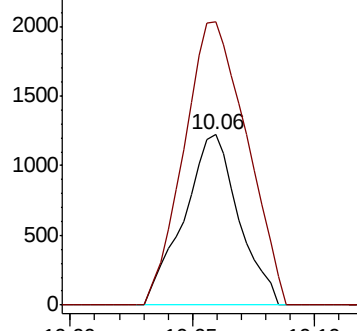
43 100

58 190.6 34.2 51.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#62

4-Bromofluorobenzene

Concen: 47.402 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN062149.D

Acq: 26 Jun 2020 19:02

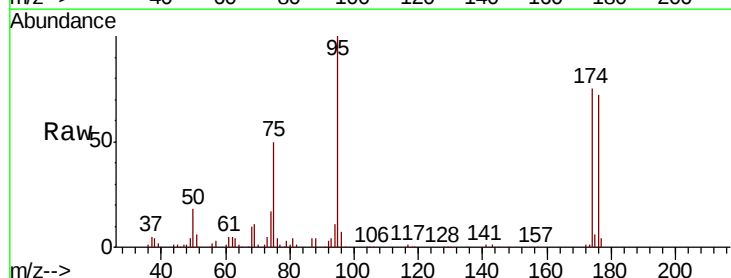
Tgt Ion: 95 Resp: 154323

Ion Ratio Lower Upper

95 100

174 77.0 0.0 154.8

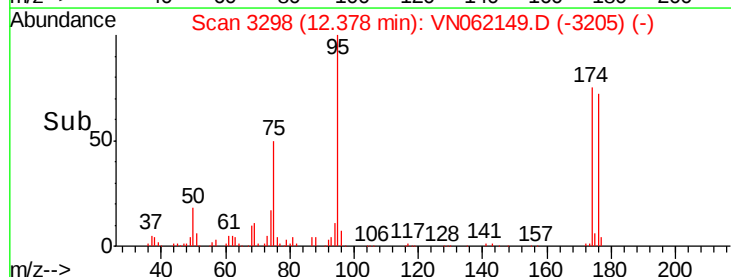
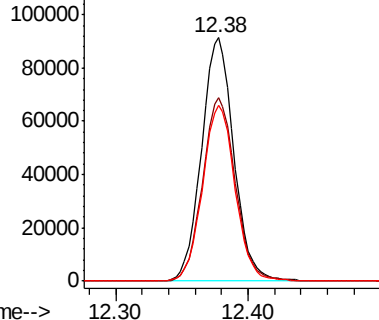
176 72.8 0.0 147.4

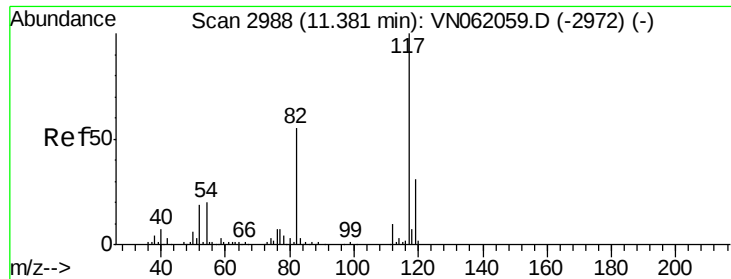


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

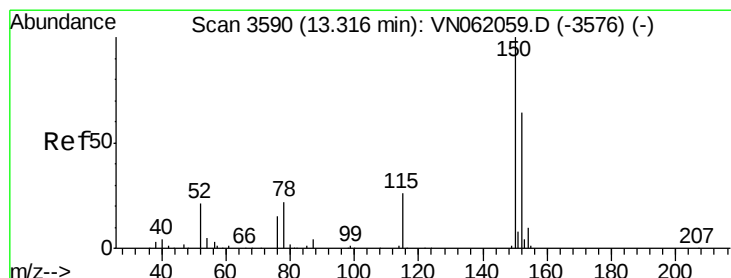
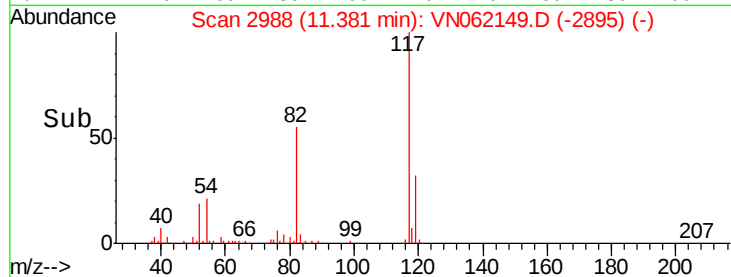
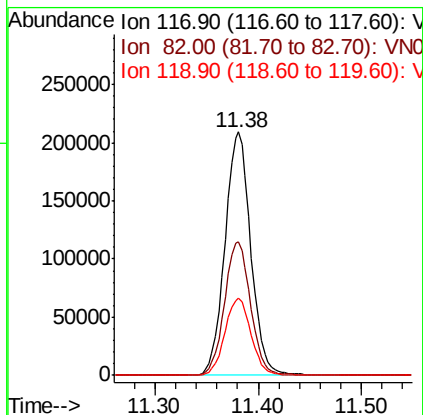
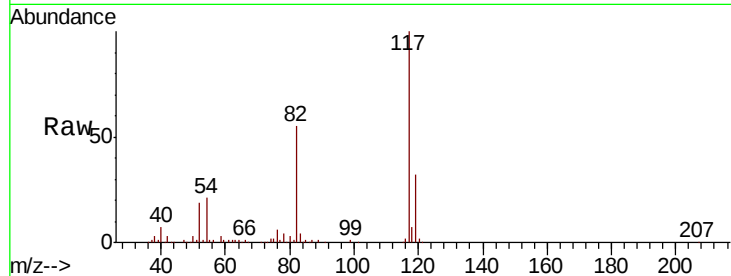




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN062149.D
Acq: 26 Jun 2020 19:02

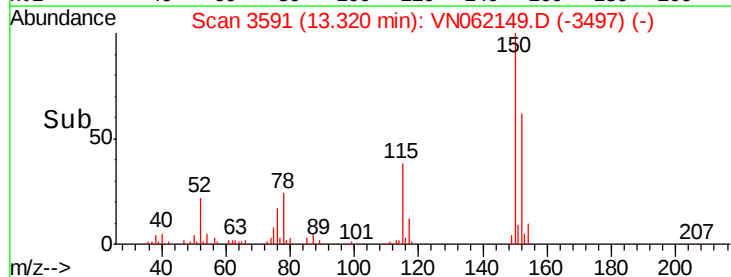
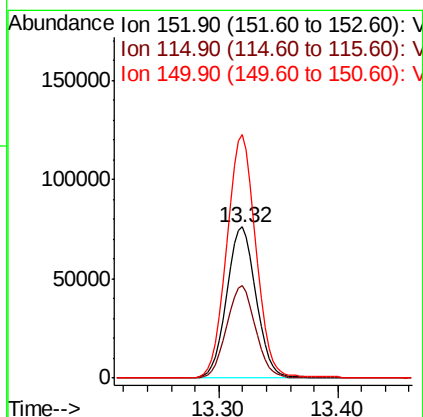
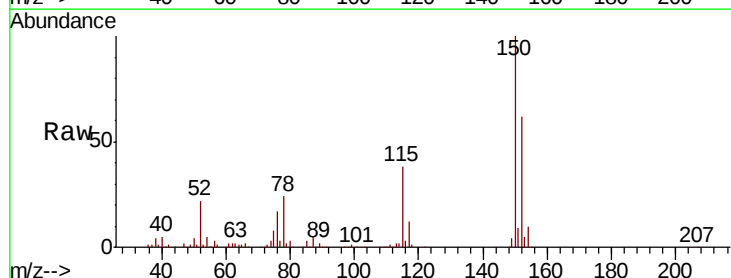
Instrument :
MSVOA_N
ClientSampleId :
08BR-20200622

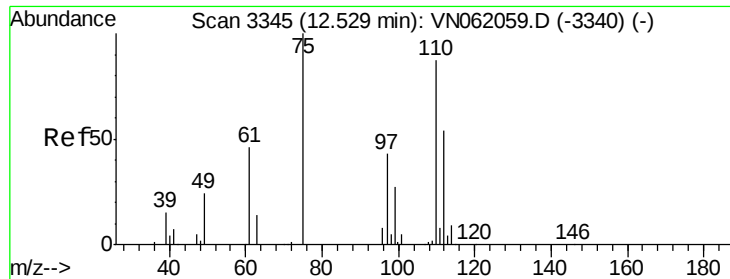
Tot Ion:117 Resp: 365050
Ion Ratio Lower Upper
117 100
82 54.6 43.8 65.8
119 31.5 25.2 37.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3591
Delta R.T. 0.00 min
Lab File: VN062149.D
Acq: 26 Jun 2020 19:02

Tgt Ion:152 Resp: 131012
Ion Ratio Lower Upper
152 100
115 60.0 29.5 88.5
150 158.9 0.0 351.4





#76

1,2,3-Trichloropropane

Concen: 24.882 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062149.D

Acq: 26 Jun 2020 19:02

Instrument :

MSVOA_N

ClientSampleId :

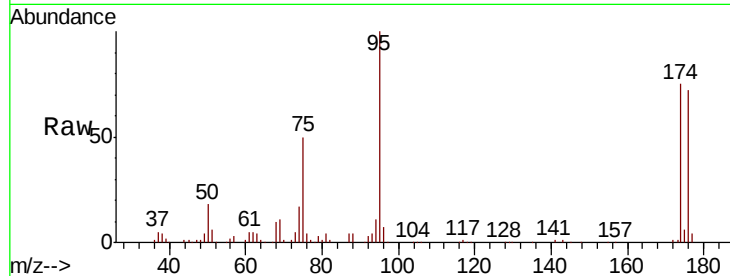
08BR-20200622

Tot Ion: 75 Resp: 76739

Ion Ratio Lower Upper

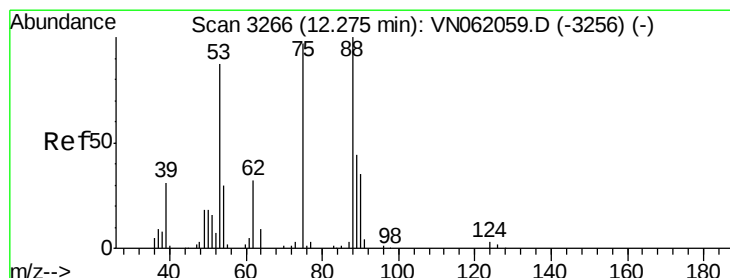
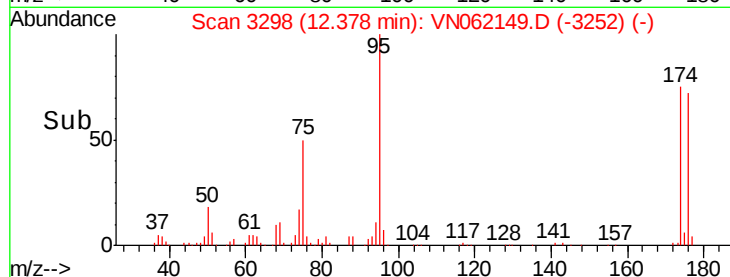
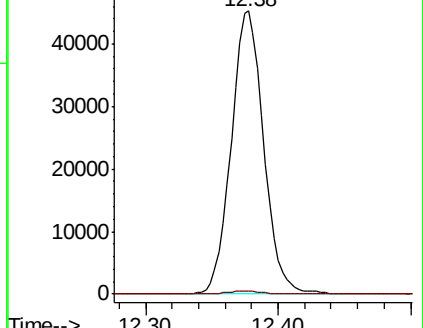
75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN062149.D (-3298) (-)

Ion 77.00 (76.70 to 77.70): VN062149.D (-3298) (-)



#81

trans-1,4-Dichloro-2-butene

Concen: 72.664 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062149.D

Acq: 26 Jun 2020 19:02

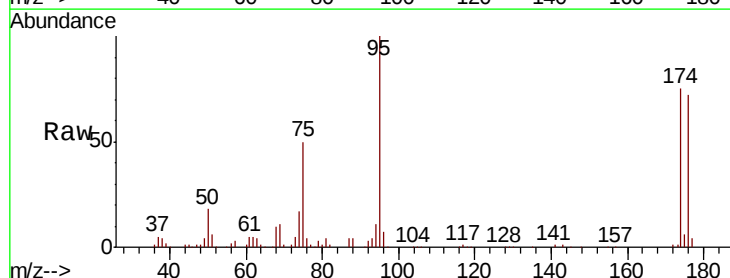
Tgt Ion: 75 Resp: 76739

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): VN062149.D (-3298) (-)

Ion 53.00 (52.70 to 53.70): VN062149.D (-3298) (-)

Ion 88.90 (88.60 to 89.60): VN062149.D (-3298) (-)

