

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062620\
 Data File : VN062140.D
 Acq On : 26 Jun 2020 15:25
 Operator : JC/MD
 Sample : L3088-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 45BR-20200622

Quant Time: Jun 27 03:42:30 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	216419	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	395338	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	373369	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	132930	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	146272	48.16	ug/l	0.00
Spiked Amount			Recovery	=	96.32%	
35) Dibromofluoromethane	7.55	113	123882	48.84	ug/l	0.00
Spiked Amount			Recovery	=	97.68%	
50) Toluene-d8	10.06	98	494189	48.74	ug/l	0.00
Spiked Amount			Recovery	=	97.48%	
62) 4-Bromofluorobenzene	12.38	95	154946	45.24	ug/l	0.00
Spiked Amount			Recovery	=	90.48%	

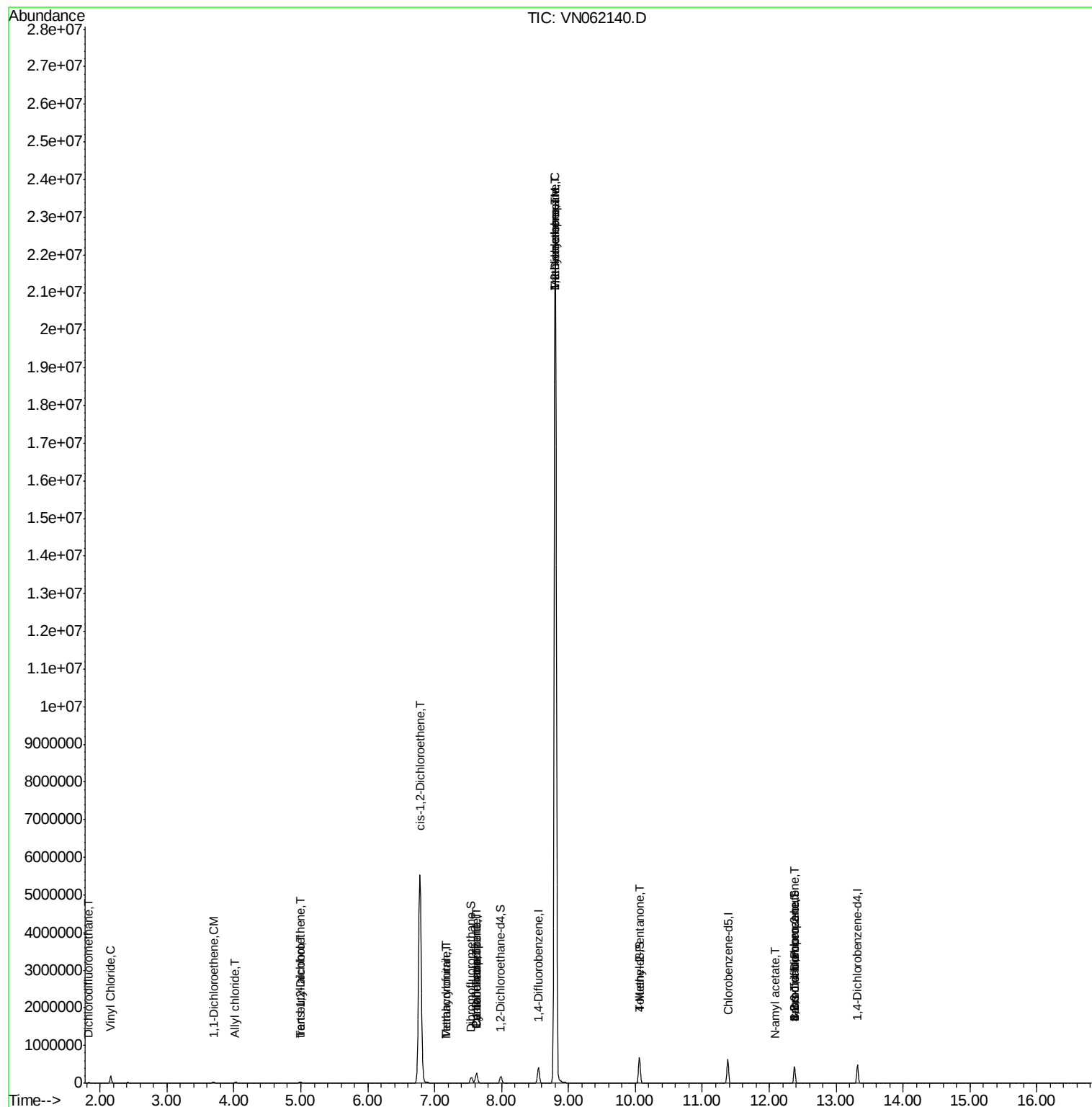
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.83	85	12034	4.919	ug/l	99
3) Chloromethane	2.04	50	509	Below Cal	#	61
4) Vinyl Chloride	2.16	62	172164	44.691	ug/l	98
11) Tert butyl alcohol	4.99	59	663	1.520	ug/l #	72
12) 1,1-Dichloroethene	3.70	96	15148	6.096	ug/l	97
14) Allyl chloride	4.02	41	2733	0.808	ug/l #	67
16) Acetone	3.79	43	2986	Below Cal		95
20) Methylene Chloride	4.50	84	329	Below Cal	#	9
21) trans-1,2-Dichloroethene	4.99	96	18179	6.422	ug/l	98
27) cis-1,2-Dichloroethene	6.78	96	3912446	1228.194	ug/l	87
29) Tetrahydrofuran	7.16	42	1710	1.759	ug/l #	49
31) Cyclohexane	7.62	56	4484	1.069	ug/l #	1
36) 1,1-Dichloropropene	7.62	75	17581	4.424	ug/l #	48
38) Carbon Tetrachloride	7.63	117	21570	5.758	ug/l #	16
39) Methylcyclohexane	8.80	83	138153	31.730	ug/l #	1
41) Methacrylonitrile	7.16	41	644	0.422	ug/l #	29
44) Trichloroethene	8.80	130	7677818	2513.002	ug/l	100
45) 1,2-Dichloropropane	8.80	63	27115	9.075	ug/l #	1
51) 4-Methyl-2-Pentanone	10.06	43	1978	0.631	ug/l #	1
71) Bromoform	12.37	173	1436	0.712	ug/l #	1
74) N-amyl acetate	12.08	43	29	3.350	ug/l #	38
76) 1,2,3-Trichloropropane	12.38	75	79562	25.425	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	79562	74.251	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: VN062140.D

Acq: 26 Jun 2020 15:25

Instrument :

MSVOA_N

ClientSampleId :

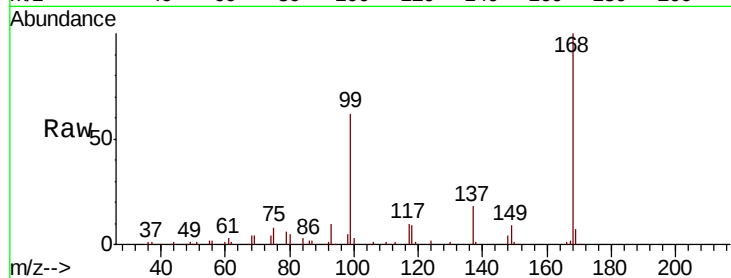
45BR-20200622

Tot Ion:168 Resp: 216419

Ion Ratio Lower Upper

168 100

99 61.6 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

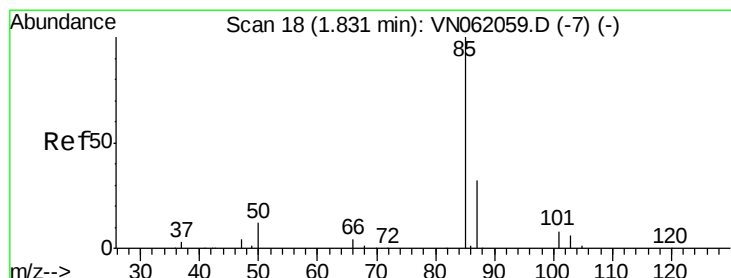
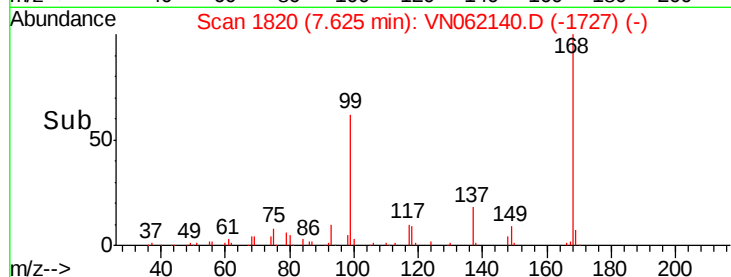
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#2

Dichlorodifluoromethane

Concen: 4.919 ug/l

RT: 1.83 min Scan# 18

Delta R.T. -0.00 min

Lab File: VN062140.D

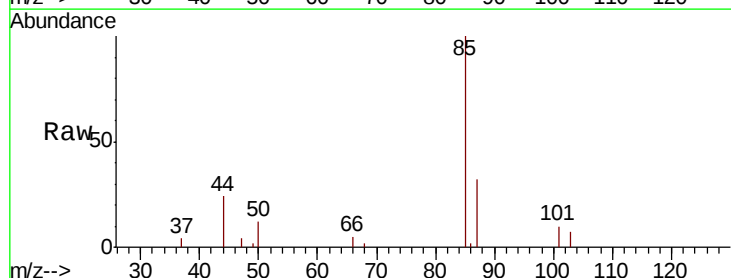
Acq: 26 Jun 2020 15:25

Tgt Ion: 85 Resp: 12034

Ion Ratio Lower Upper

85 100

87 32.4 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

10000

8000

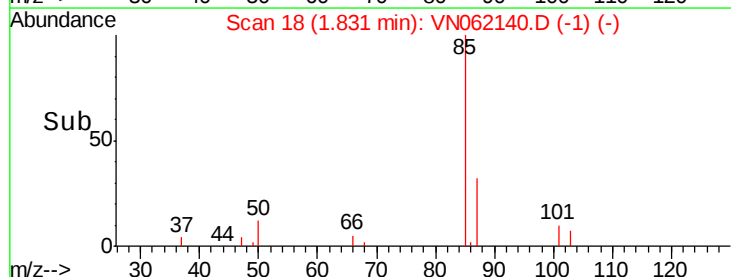
6000

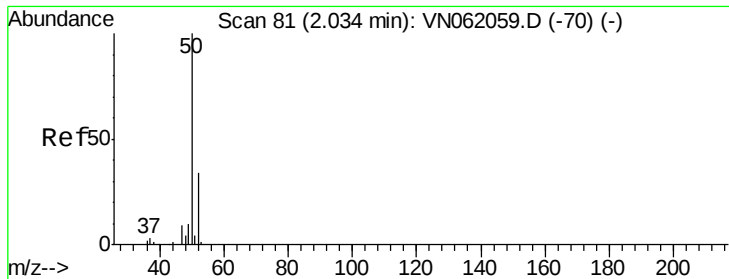
4000

2000

0

Time--> 1.80 1.85 1.90





#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN062140.D

Acq: 26 Jun 2020 15:25

Instrument :

MSVOA_N

ClientSampleId :

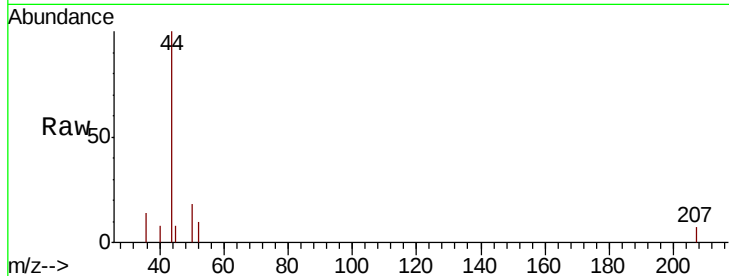
45BR-20200622

Tot Ion: 50 Resp: 509

Ion Ratio Lower Upper

50 100

52 56.3 27.0 40.6#



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

2.04

400

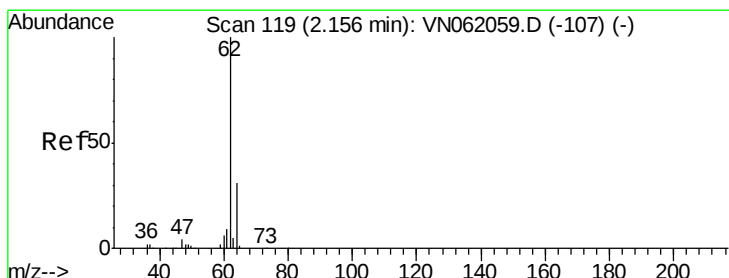
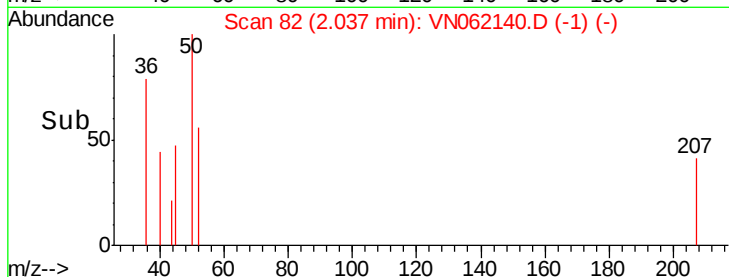
300

200

100

0

Time--> 2.00 2.02 2.04 2.06



#4

Vinyl Chloride

Concen: 44.691 ug/l

RT: 2.16 min Scan# 120

Delta R.T. 0.00 min

Lab File: VN062140.D

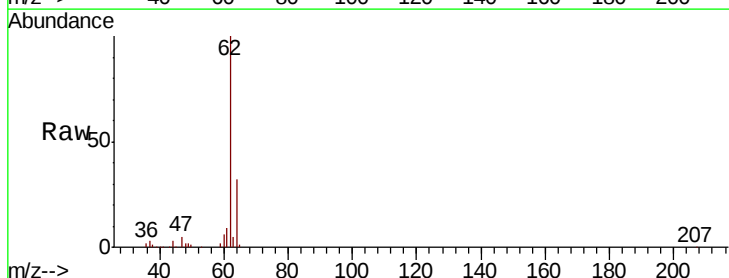
Acq: 26 Jun 2020 15:25

Tgt Ion: 62 Resp: 172164

Ion Ratio Lower Upper

62 100

64 32.5 25.1 37.7



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0

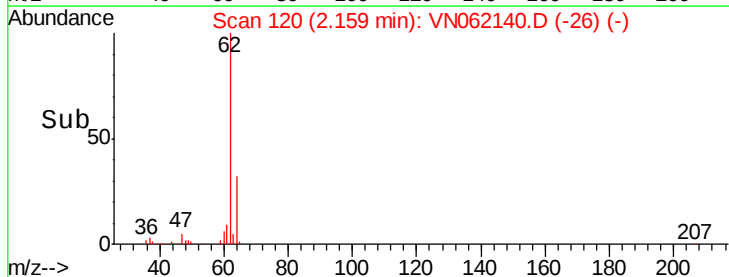
2.16

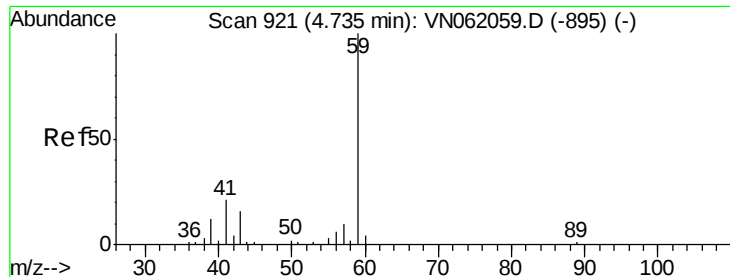
100000

50000

0

Time--> 2.10 2.15 2.20 2.25

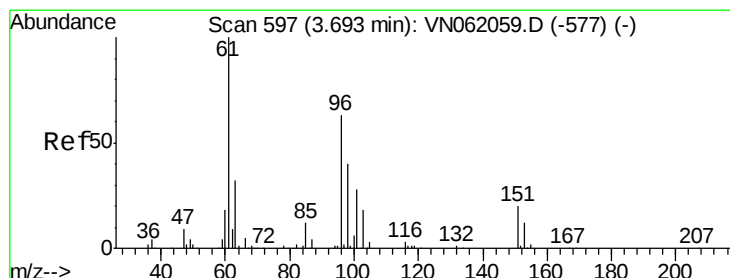
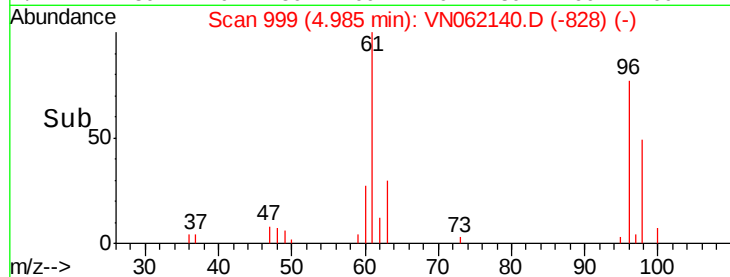
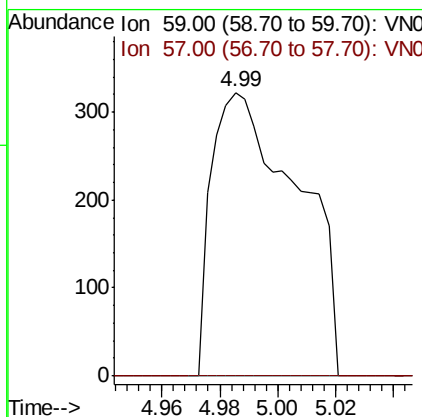
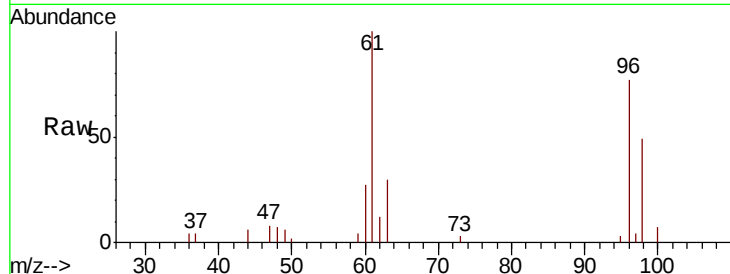




#11
Tert butyl alcohol
Concen: 1.520 ug/l
RT: 4.99 min Scan# 999
Delta R.T. 0.25 min
Lab File: VN062140.D
Acq: 26 Jun 2020 15:25

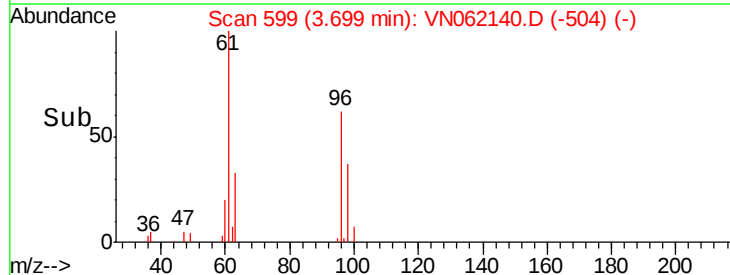
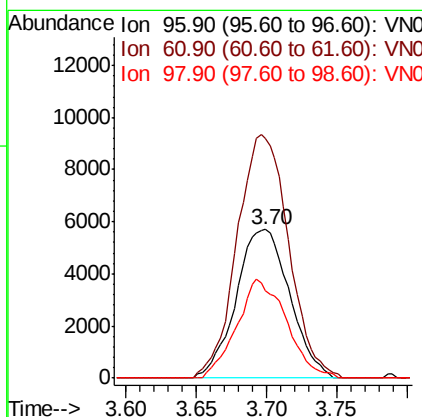
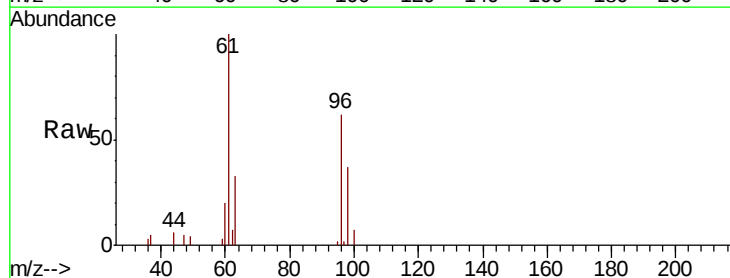
Instrument :
MSVOA_N
ClientSampleId :
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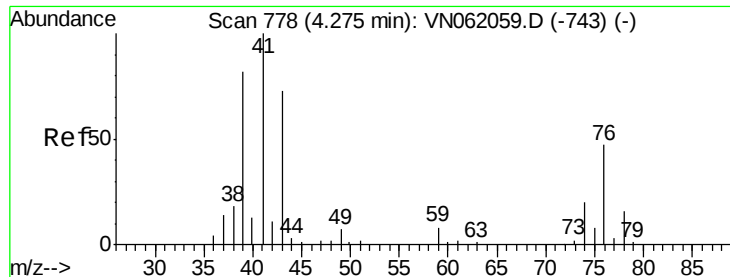
Tot Ion: 59 Resp: 663
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#12
1,1-Dichloroethene
Concen: 6.096 ug/l
RT: 3.70 min Scan# 599
Delta R.T. 0.01 min
Lab File: VN062140.D
Acq: 26 Jun 2020 15:25

Tgt Ion: 96 Resp: 15148
Ion Ratio Lower Upper
96 100
61 161.5 126.7 190.1
98 59.1 51.0 76.4

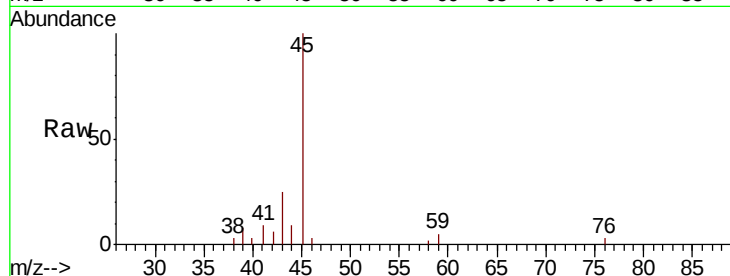




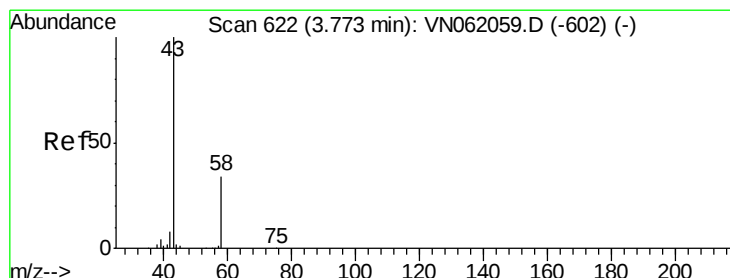
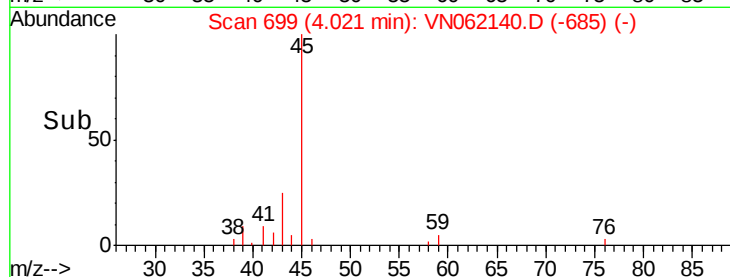
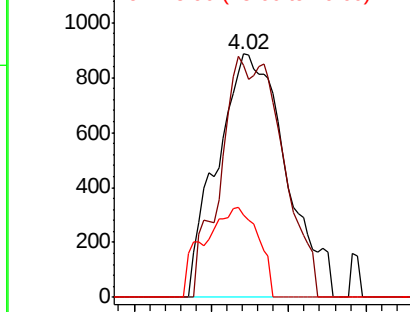
#14
Allvl chloride
Concen: 0.808 ug/l
RT: 4.02 min Scan# 699
Delta R.T. -0.25 min
Lab File: VN062140.D
Acq: 26 Jun 2020 15:25

Instrument :
MSVOA_N
ClientSampleId :
45BR-20200622

Tot Ion: 41 Resp: 2733
Ion Ratio Lower Upper
41 100
39 41.8 60.0 90.0#
76 29.1 34.1 51.1#

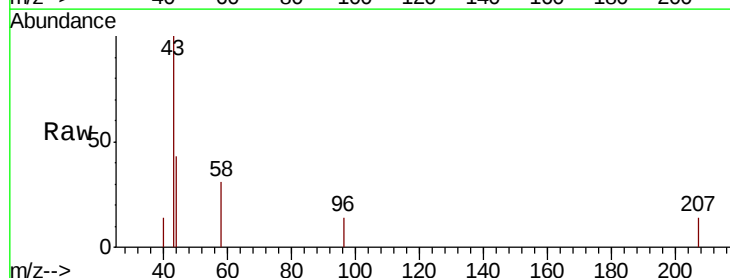


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 39.00 (38.70 to 39.70): VN0
Ion 75.90 (75.60 to 76.60): VN0

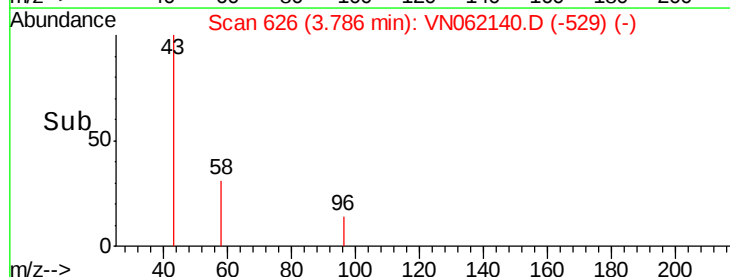
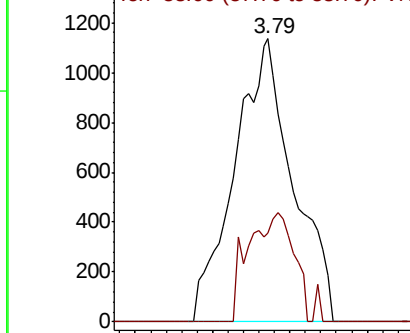


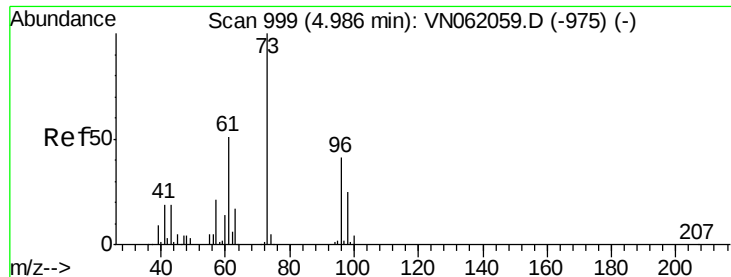
#16
Acetone
Concen: Below Cal
RT: 3.79 min Scan# 626
Delta R.T. 0.01 min
Lab File: VN062140.D
Acq: 26 Jun 2020 15:25

Tgt Ion: 43 Resp: 2986
Ion Ratio Lower Upper
43 100
58 31.3 27.5 41.3



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0





#21

trans-1,2-Dichloroethene

Concen: 6.422 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VN062140.D

Acq: 26 Jun 2020 15:25

Instrument :

MSVOA_N

ClientSampleId :

45BR-20200622

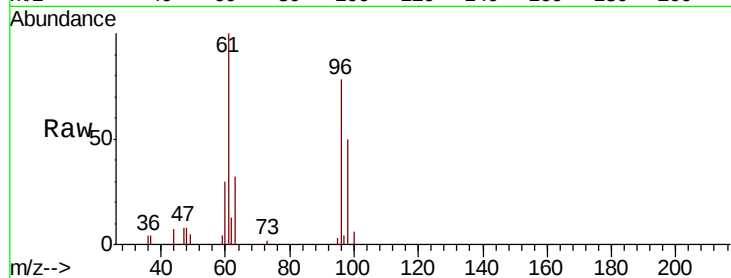
Tot Ion: 96 Resp: 18179

Ion Ratio Lower Upper

96 100

61 127.9 101.4 152.2

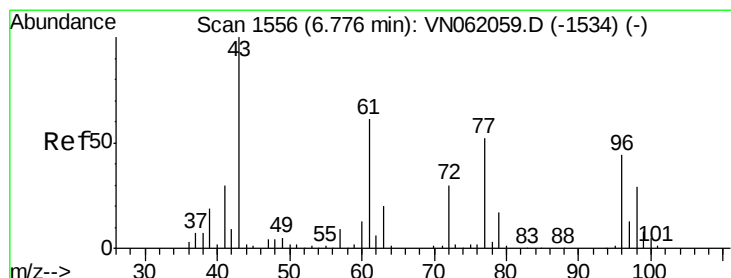
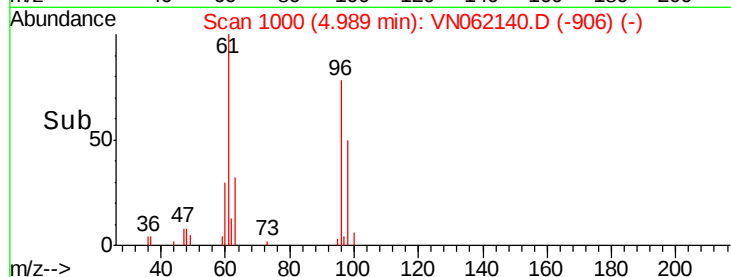
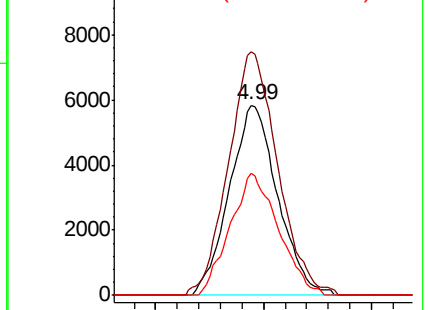
98 64.0 49.3 73.9



Abundance Ion 95.90 (95.60 to 96.60): VN062140.D (-906) (-)

Ion 60.90 (60.60 to 61.60): VN062140.D (-906) (-)

Ion 97.90 (97.60 to 98.60): VN062140.D (-906) (-)



#27

cis-1,2-Dichloroethene

Concen: 1228.194 ug/l

RT: 6.78 min Scan# 1557

Delta R.T. 0.00 min

Lab File: VN062140.D

Acq: 26 Jun 2020 15:25

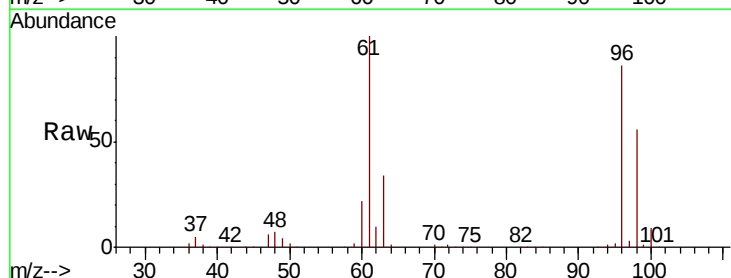
Tgt Ion: 96 Resp: 3912446

Ion Ratio Lower Upper

96 100

61 117.7 0.0 280.4

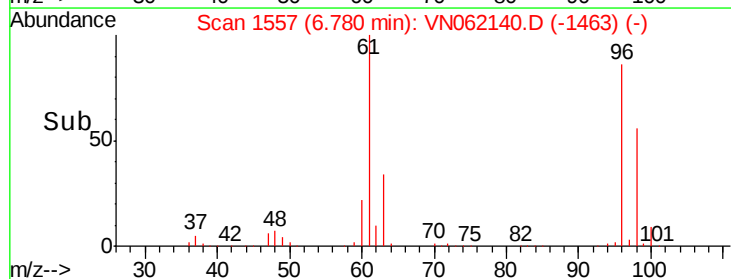
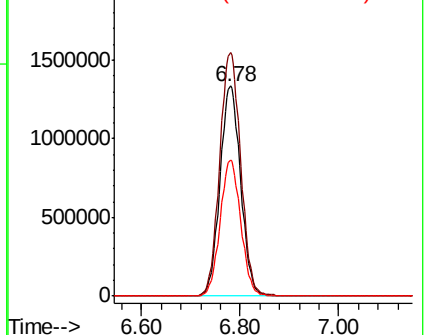
98 64.2 0.0 129.4

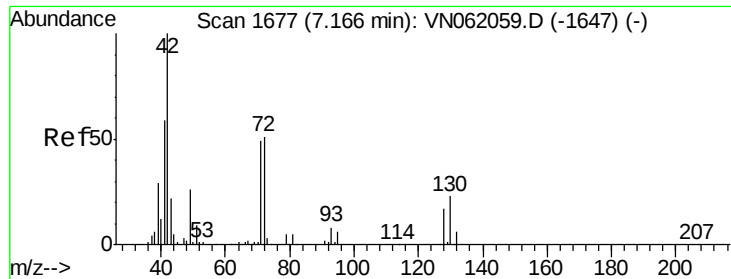


Abundance Ion 95.90 (95.60 to 96.60): VN062140.D (-1463) (-)

Ion 60.90 (60.60 to 61.60): VN062140.D (-1463) (-)

Ion 97.90 (97.60 to 98.60): VN062140.D (-1463) (-)

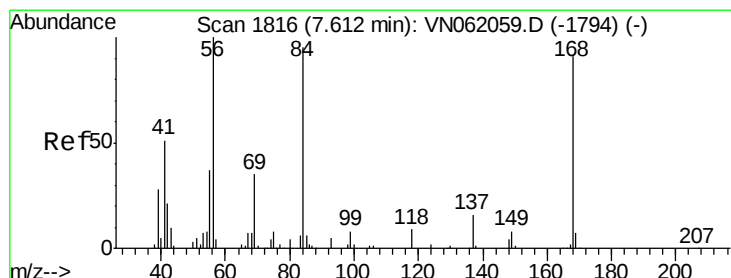
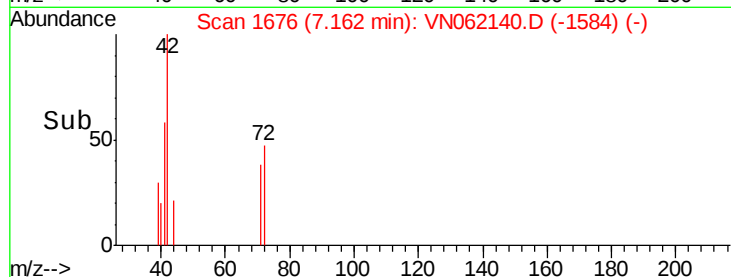
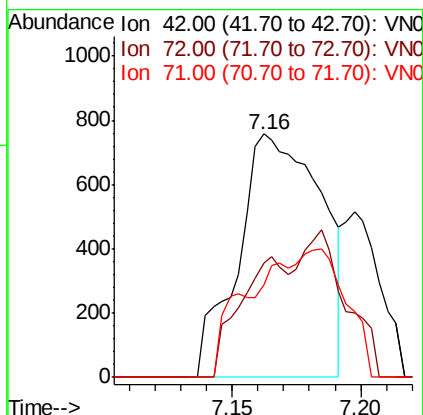
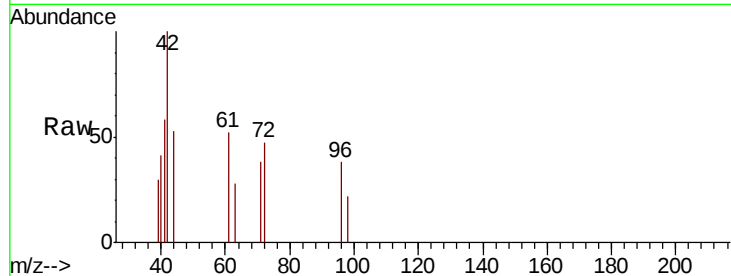




#29
Tetrahydrofuran
Concen: 1.759 ug/l
RT: 7.16 min Scan# 1676
Delta R.T. -0.00 min
Lab File: VN062140.D
Acq: 26 Jun 2020 15:25

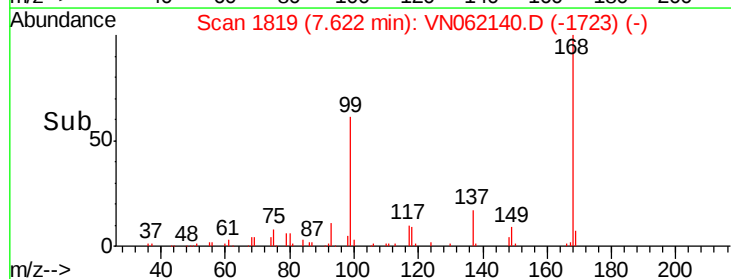
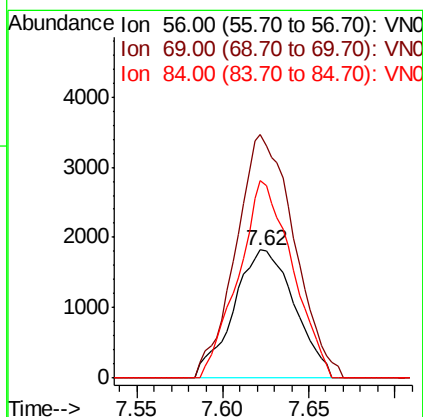
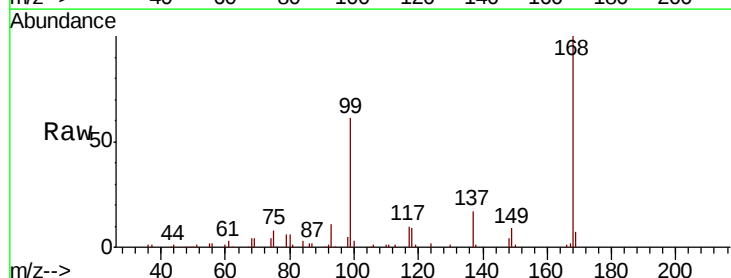
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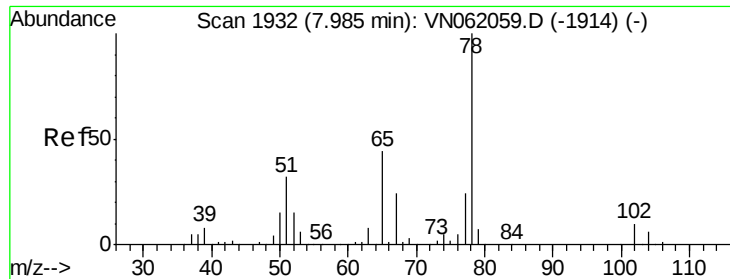
Tot Ion: 42 Resp: 1710
Ion Ratio Lower Upper
42 100
72 28.5 41.1 61.7#
71 0.0 38.2 57.4#



#31
Cyclohexane
Concen: 1.069 ug/l
RT: 7.62 min Scan# 1819
Delta R.T. 0.01 min
Lab File: VN062140.D
Acq: 26 Jun 2020 15:25

Tgt Ion: 56 Resp: 4484
Ion Ratio Lower Upper
56 100
69 189.9 28.0 42.0#
84 154.3 76.1 114.1#

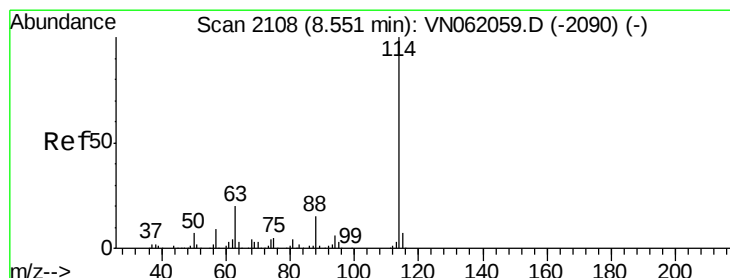
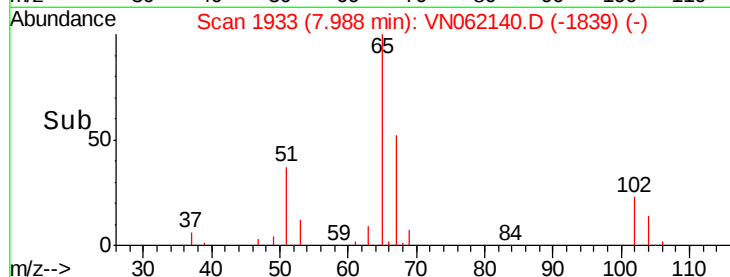
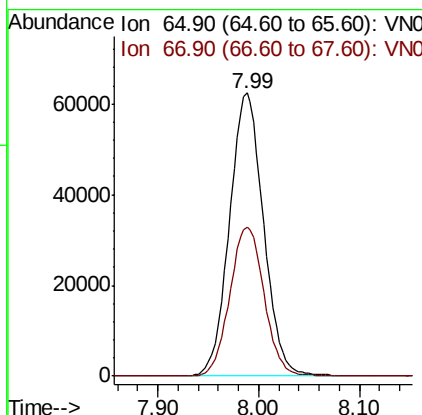
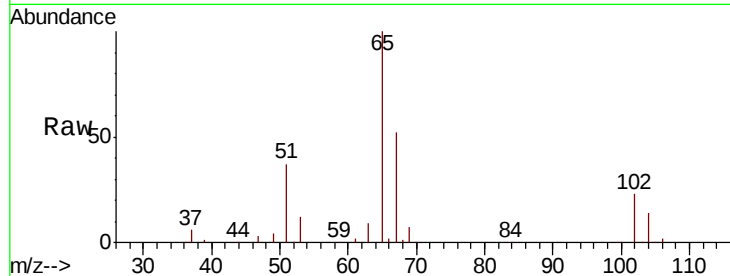




#33
 1,2-Dichloroethane-d4
 Concen: 48.162 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. 0.00 min
 Lab File: VN062140.D
 Acq: 26 Jun 2020 15:25

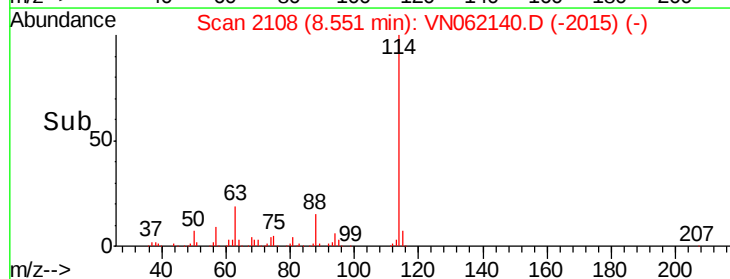
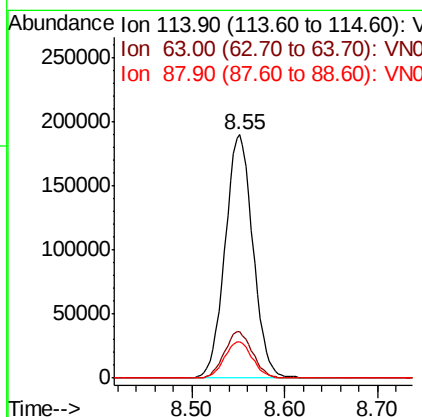
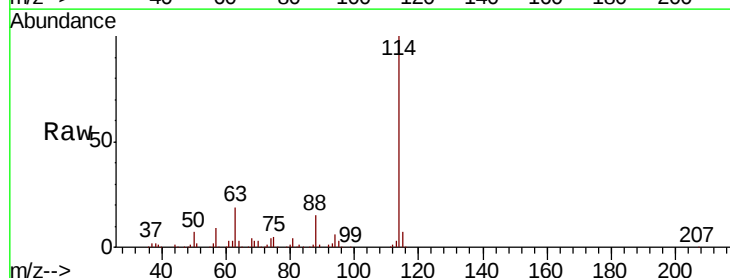
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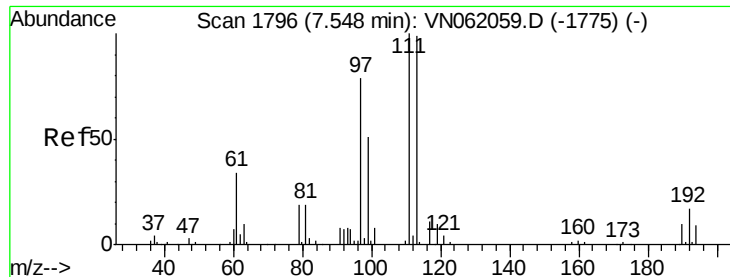
Tot Ion: 65 Resp: 146272
 Ion Ratio Lower Upper
 65 100
 67 53.1 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN062140.D
 Acq: 26 Jun 2020 15:25

Tgt Ion: 114 Resp: 395338
 Ion Ratio Lower Upper
 114 100
 63 18.9 0.0 39.2
 88 15.0 0.0 30.8

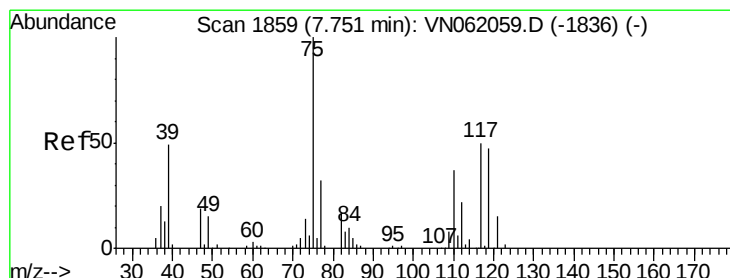
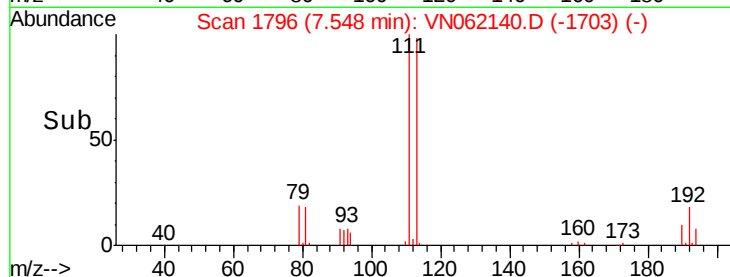
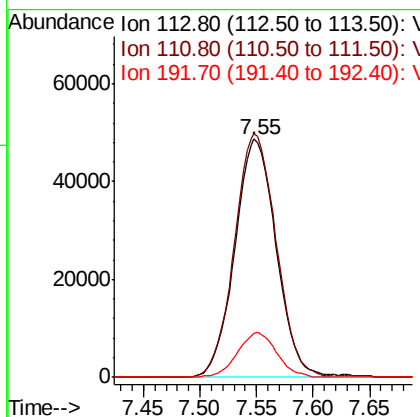
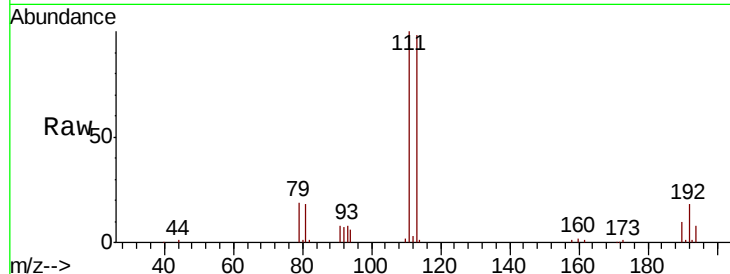




#35
 Dibromofluoromethane
 Concen: 48.844 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. -0.00 min
 Lab File: VN062140.D
 Acq: 26 Jun 2020 15:25

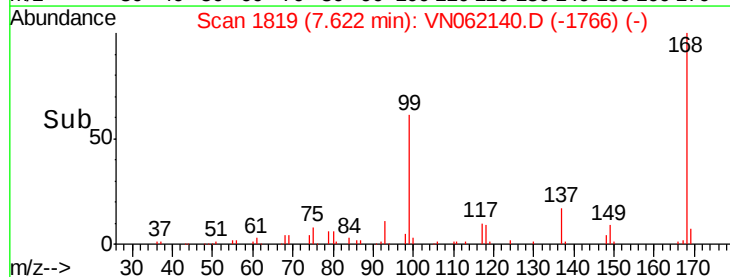
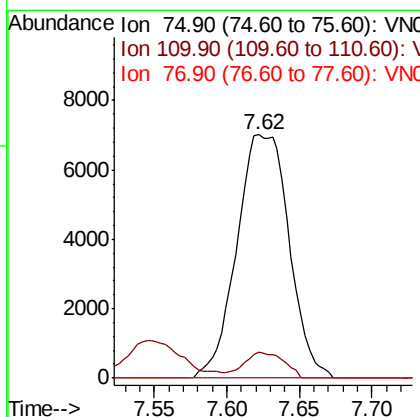
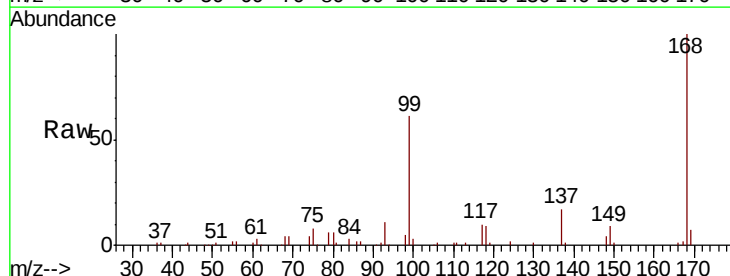
Instrument :
 MSVOA_N
 ClientSampleId :
 45BR-20200622

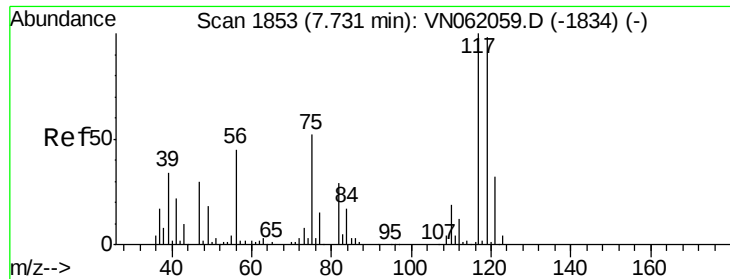
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.1	82.2	123.4
192	17.8	14.0	21.0



#36
 1,1-Dichloropropene
 Concen: 4.424 ug/l
 RT: 7.62 min Scan# 1819
 Delta R.T. -0.13 min
 Lab File: VN062140.D
 Acq: 26 Jun 2020 15:25

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.1	17.9	53.8#
77	0.0	24.9	37.3#





#38

Carbon Tetrachloride

Concen: 5.758 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN062140.D

Acq: 26 Jun 2020 15:25

Instrument :

MSVOA_N

ClientSampleId :

45BR-20200622

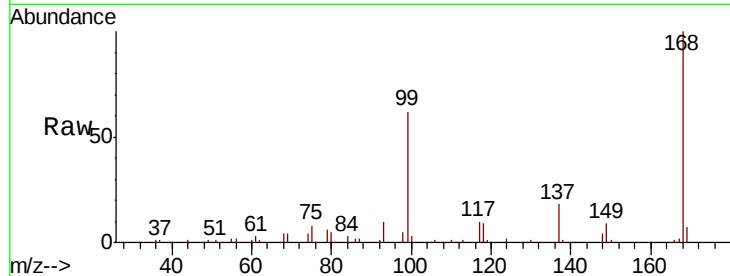
Tot Ion:117 Resp: 21570

Ion Ratio Lower Upper

117 100

119 6.4 78.2 117.2#

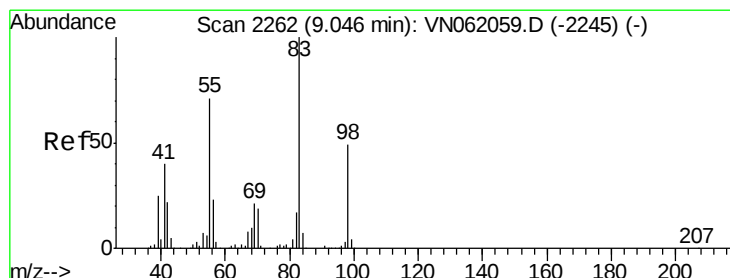
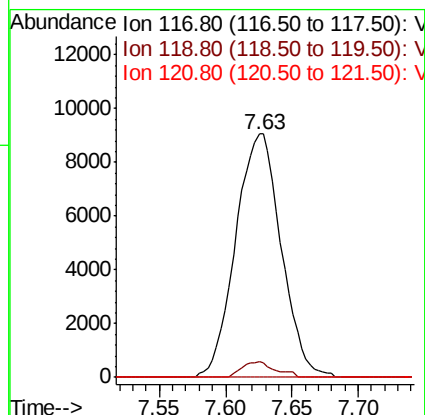
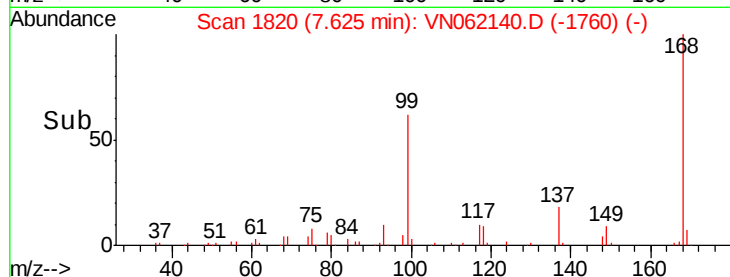
121 0.0 25.8 38.6#



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: 31.730 ug/l

RT: 8.80 min Scan# 2186

Delta R.T. -0.24 min

Lab File: VN062140.D

Acq: 26 Jun 2020 15:25

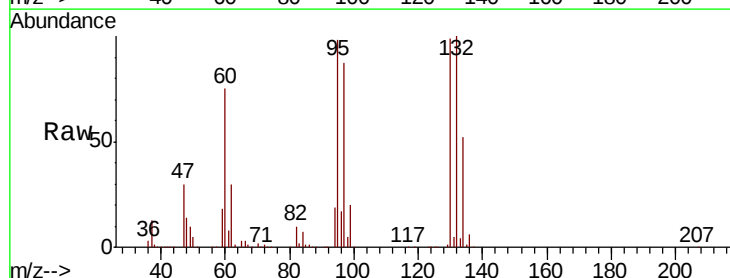
Tgt Ion: 83 Resp: 138153

Ion Ratio Lower Upper

83 100

55 0.0 57.0 85.6#

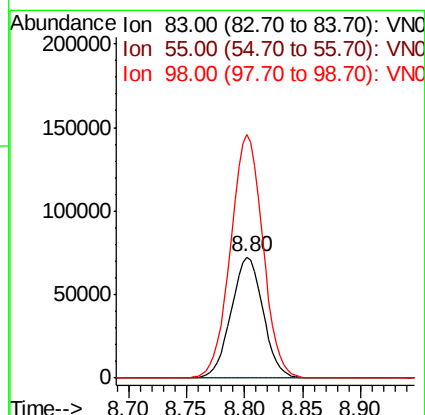
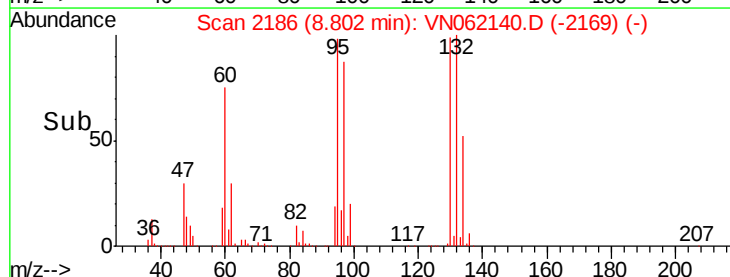
98 201.1 39.0 58.6#

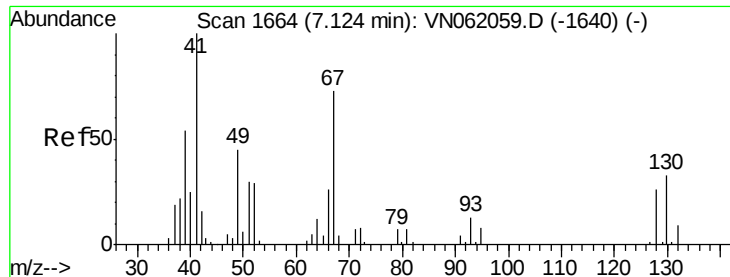


Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 98.00 (97.70 to 98.70): VN0

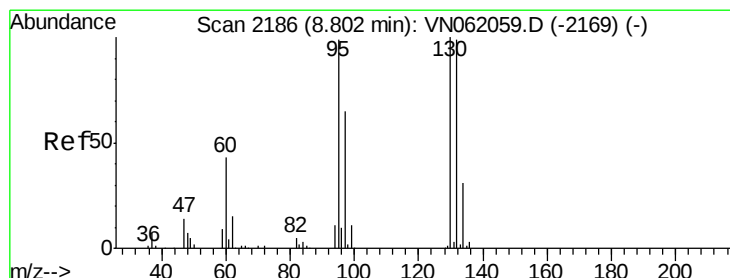
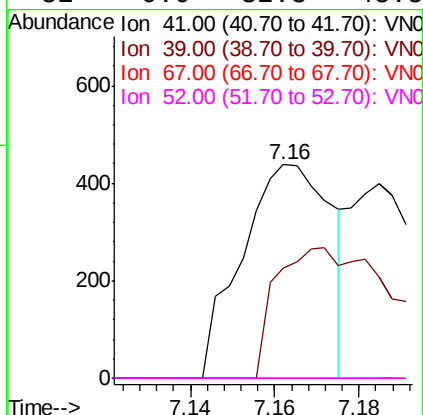
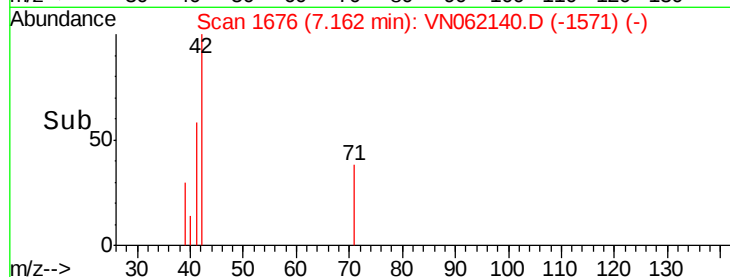
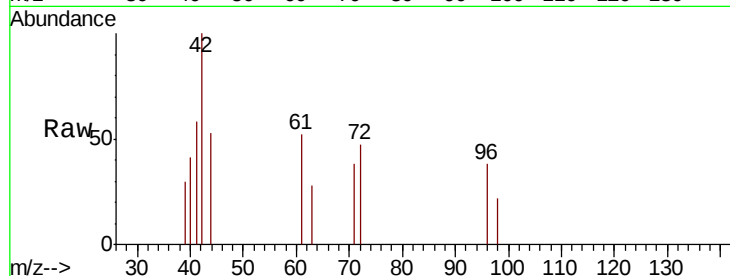




#41
Methacrylonitrile
Concen: 0.422 ug/l
RT: 7.16 min Scan# 1676
Delta R.T. 0.04 min
Lab File: VN062140.D
Acq: 26 Jun 2020 15:25

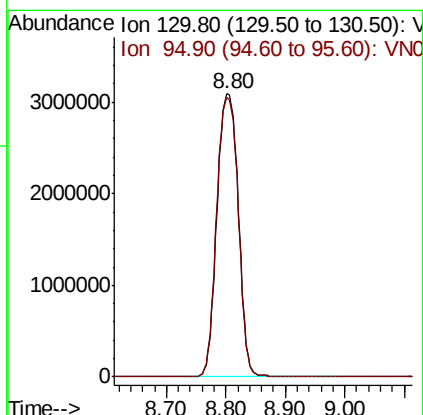
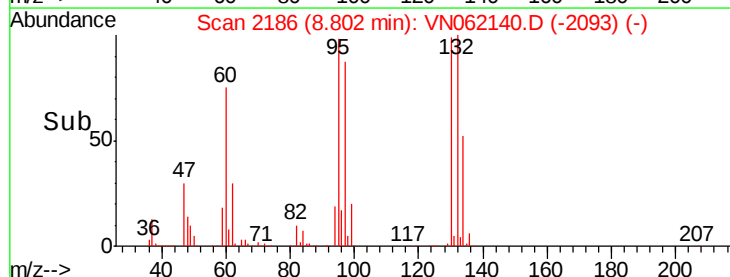
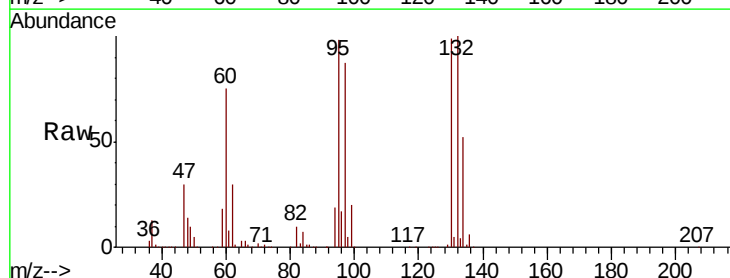
Instrument :
MSVOA_N
ClientSampleId :
45BR-20200622

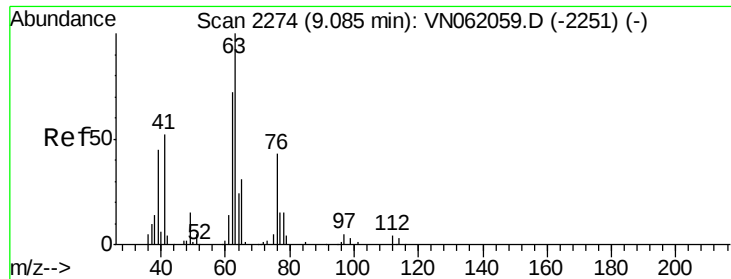
Tot Ion: 41 Resp: 644
Ion Ratio Lower Upper
41 100
39 73.1 44.2 66.2#
67 0.0 79.5 119.3#
52 0.0 32.3 48.5#



#44
Trichloroethene
Concen: 2513.002 ug/l
RT: 8.80 min Scan# 2186
Delta R.T. -0.00 min
Lab File: VN062140.D
Acq: 26 Jun 2020 15:25

Tgt Ion: 130 Resp: 7677818
Ion Ratio Lower Upper
130 100
95 98.6 0.0 197.8

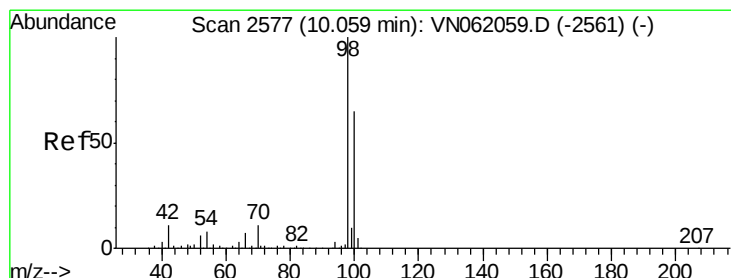
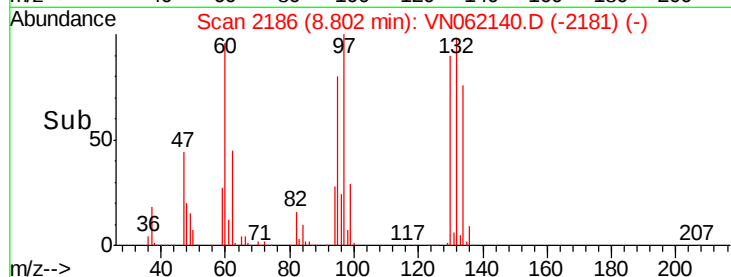
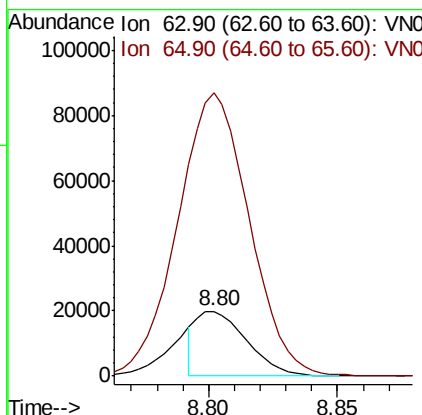
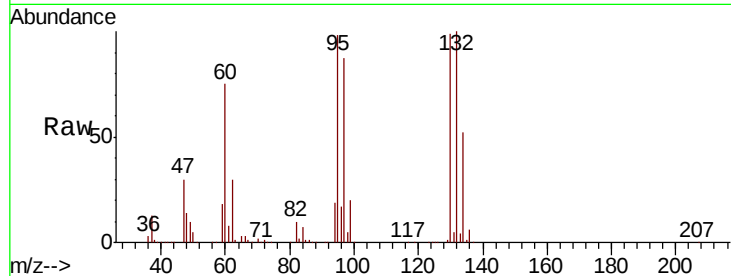




#45
 1,2-Dichloropropane
 Concen: 9.075 ug/l
 RT: 8.80 min Scan# 2186
 Delta R.T. -0.28 min
 Lab File: VN062140.D
 Acq: 26 Jun 2020 15:25

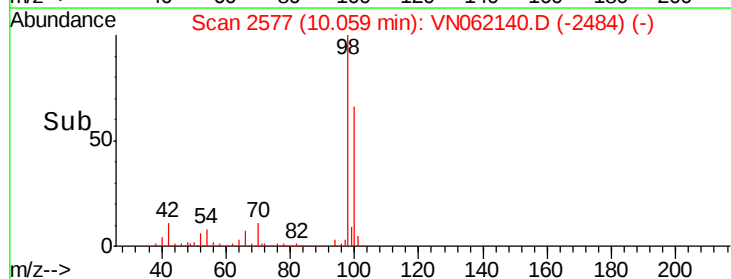
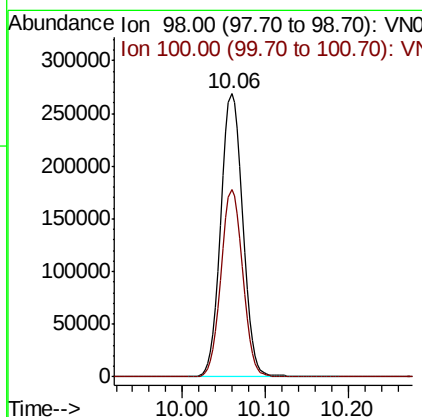
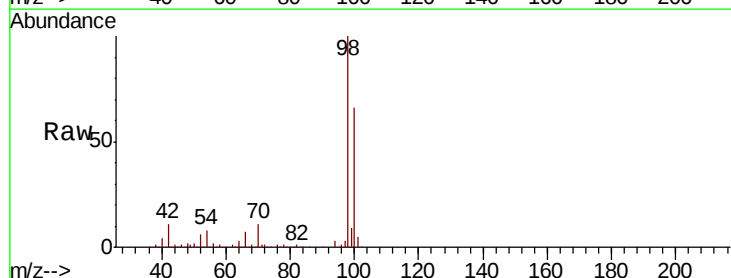
Instrument :
 MSVOA_N
 ClientSampleId :
 45BR-20200622

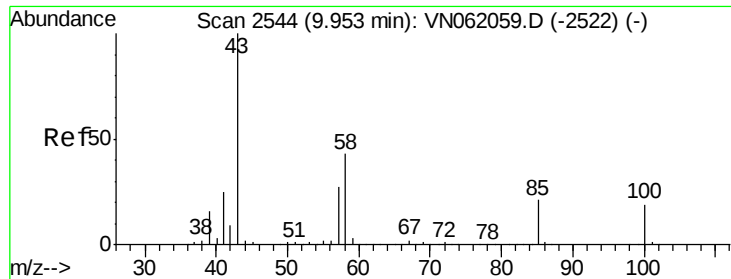
Tot Ion: 63 Resp: 27115
 Ion Ratio Lower Upper
 63 100
 65 433.6 25.0 37.4#



#50
 Toluene-d8
 Concen: 48.744 ug/l
 RT: 10.06 min Scan# 2577
 Delta R.T. -0.00 min
 Lab File: VN062140.D
 Acq: 26 Jun 2020 15:25

Tgt Ion: 98 Resp: 494189
 Ion Ratio Lower Upper
 98 100
 100 65.0 51.2 76.8





#51

4-Methyl-2-Pentanone

Concen: 0.631 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.11 min

Lab File: VN062140.D

Acq: 26 Jun 2020 15:25

Instrument :

MSVOA_N

ClientSampleId :

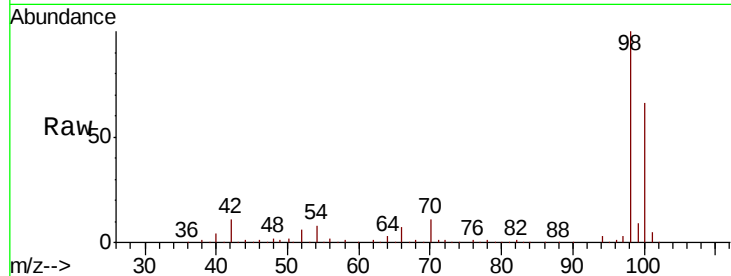
45BR-20200622

Tot Ion: 43 Resp: 1978

Ion Ratio Lower Upper

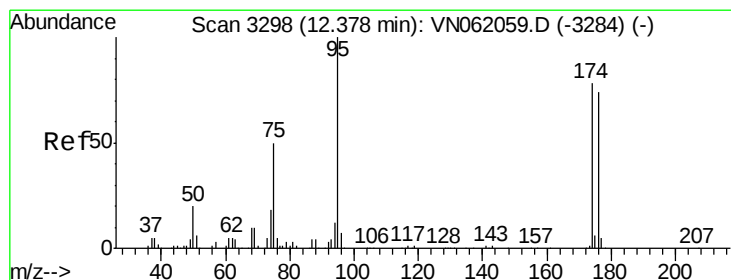
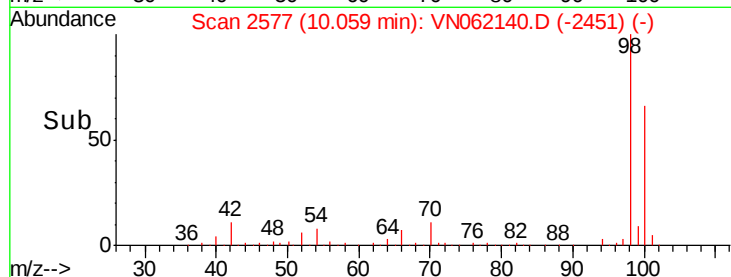
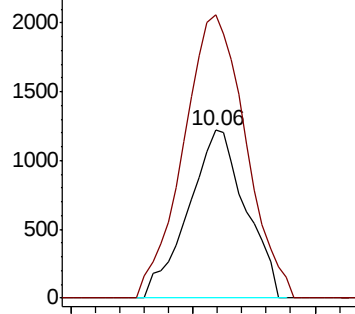
43 100

58 184.4 34.2 51.2#



Abundance Ion 43.00 (42.70 to 43.70): VN062140.D (-2522) (-)

Ion 58.00 (57.70 to 58.70): VN062140.D (-2522) (-)



#62

4-Bromofluorobenzene

Concen: 45.235 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.00 min

Lab File: VN062140.D

Acq: 26 Jun 2020 15:25

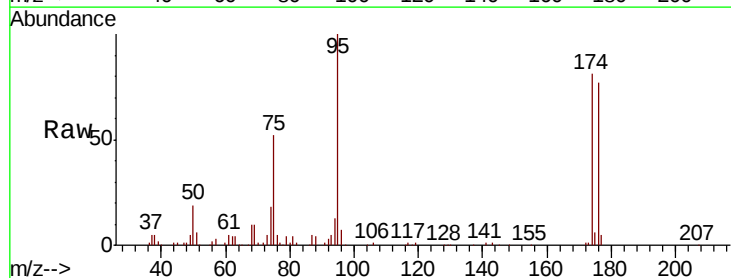
Tgt Ion: 95 Resp: 154946

Ion Ratio Lower Upper

95 100

174 79.4 0.0 154.8

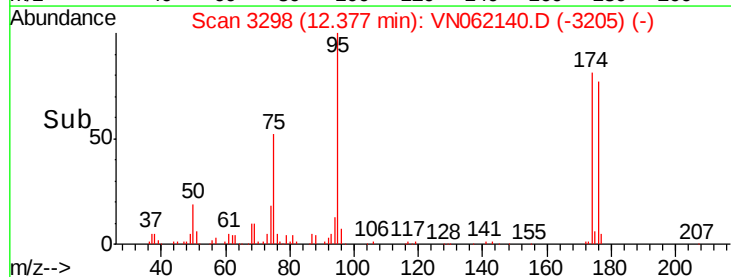
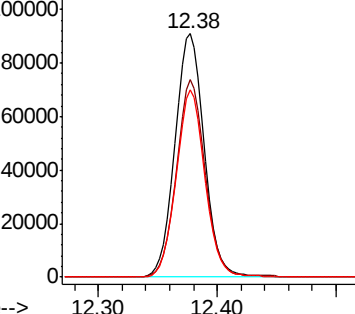
176 75.7 0.0 147.4

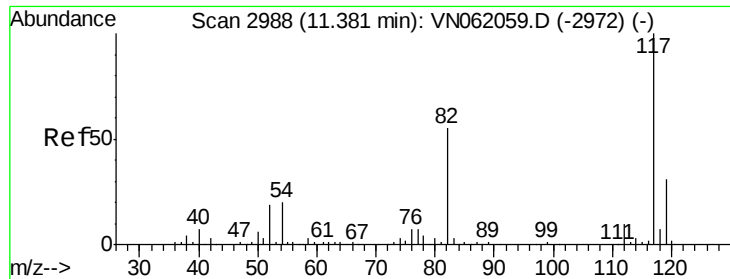


Abundance Ion 94.90 (94.60 to 95.60): VN062140.D (-3205) (-)

Ion 173.80 (173.50 to 174.50): VN062140.D (-3205) (-)

Ion 175.80 (175.50 to 176.50): VN062140.D (-3205) (-)

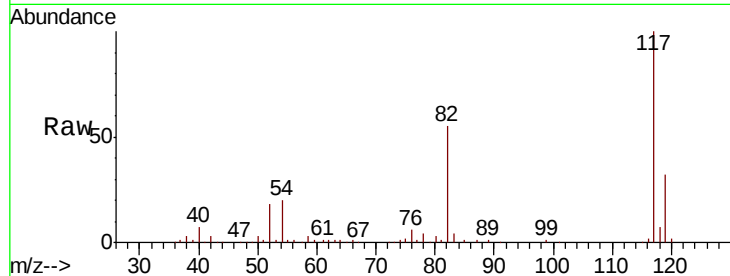




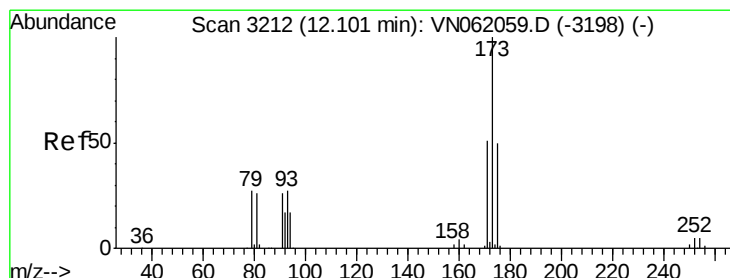
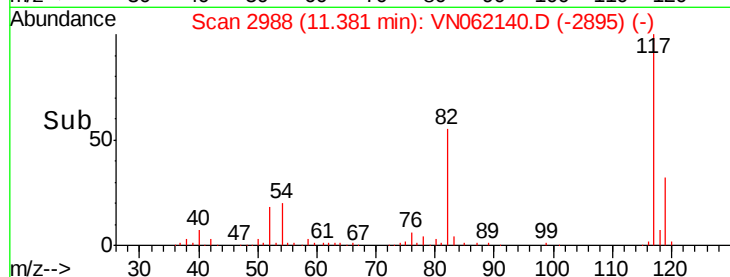
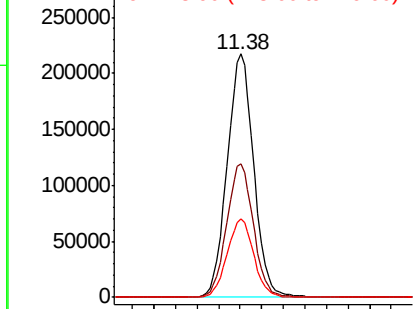
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN062140.D
Acq: 26 Jun 2020 15:25

Instrument :
MSVOA_N
ClientSampleId :
45BR-20200622

Tot Ion:117 Resp: 373369
Ion Ratio Lower Upper
117 100
82 54.9 43.8 65.8
119 32.1 25.2 37.8

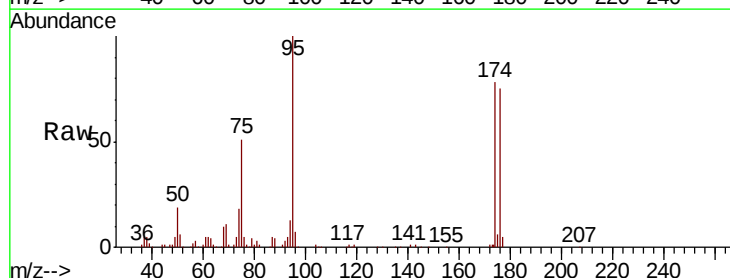


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

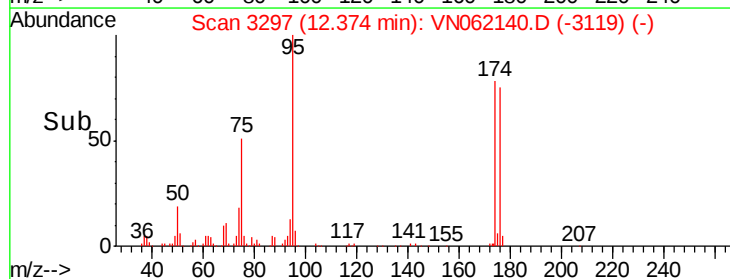
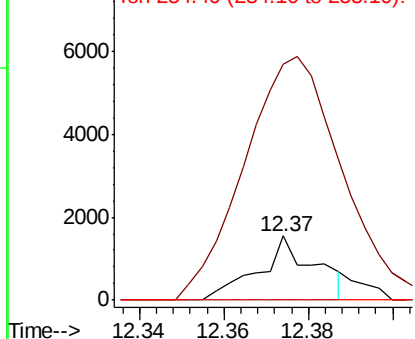


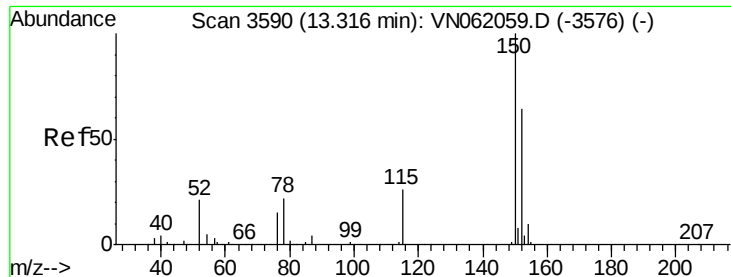
#71
Bromoform
Concen: 0.712 ug/l
RT: 12.37 min Scan# 3297
Delta R.T. 0.27 min
Lab File: VN062140.D
Acq: 26 Jun 2020 15:25

Tgt Ion:173 Resp: 1436
Ion Ratio Lower Upper
173 100
175 566.8 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: VN062140.D

Acq: 26 Jun 2020 15:25

Instrument :

MSVOA_N

ClientSampleId :

45BR-20200622

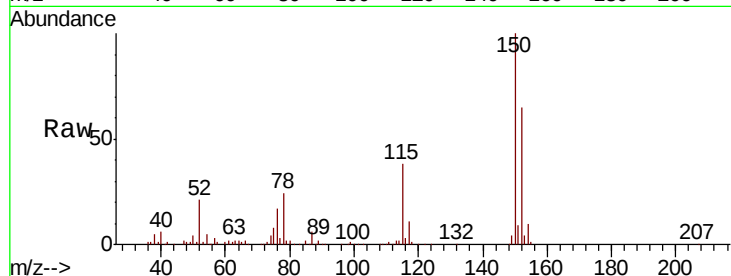
Tot Ion:152 Resp: 132930

Ion Ratio Lower Upper

152 100

115 58.4 29.5 88.5

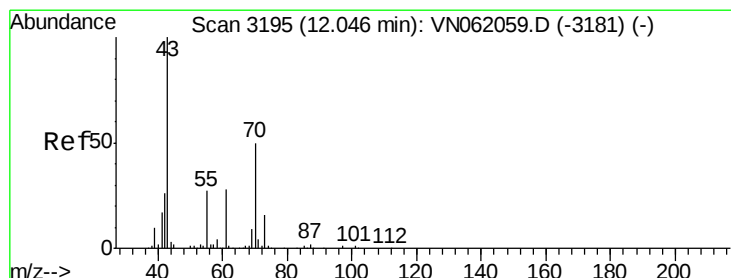
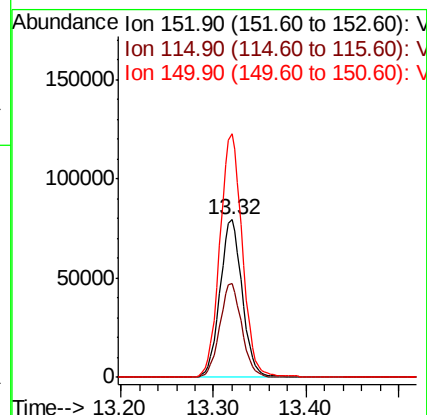
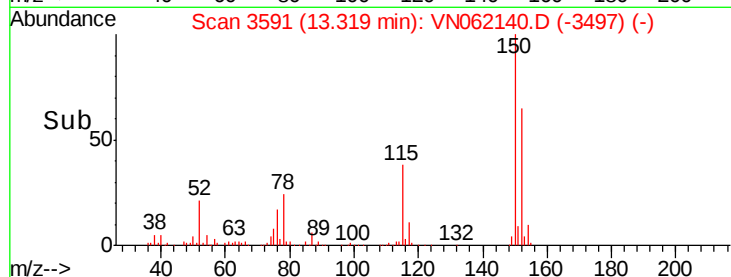
150 155.9 0.0 351.4



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



#74

N-ethyl acetate

Concen: 3.350 ug/l

RT: 12.08 min Scan# 3207

Delta R.T. 0.04 min

Lab File: VN062140.D

Acq: 26 Jun 2020 15:25

Tgt Ion: 43 Resp: 29

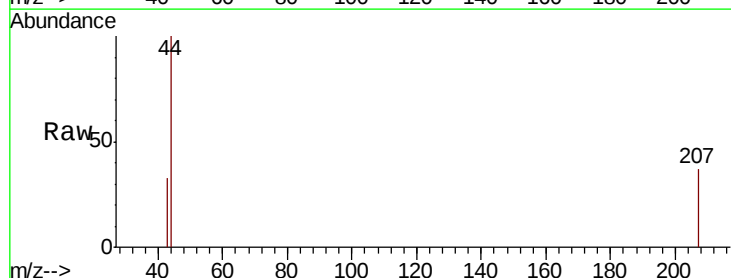
Ion Ratio Lower Upper

43 100

70 0.0 39.4 59.2#

55 0.0 21.7 32.5#

61 0.0 21.3 31.9#

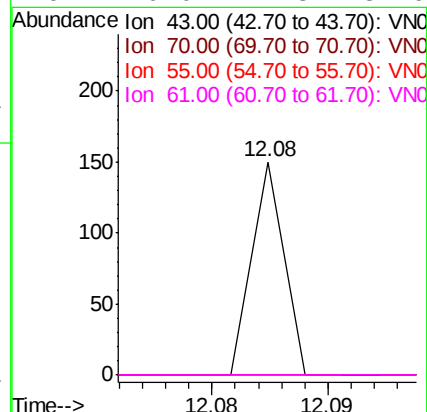
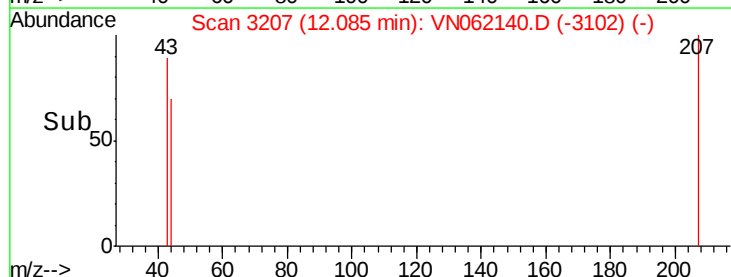


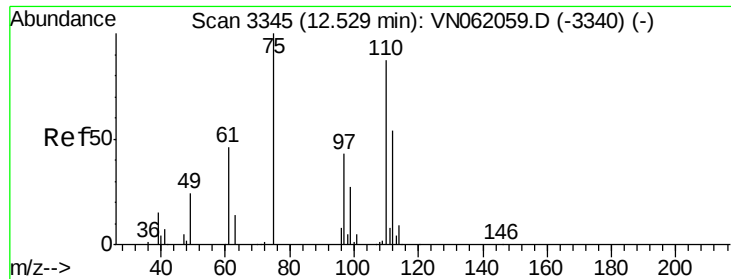
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0





#76

1,2,3-Trichloropropane

Concen: 25.425 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062140.D

Acq: 26 Jun 2020 15:25

Instrument :

MSVOA_N

ClientSampleId :

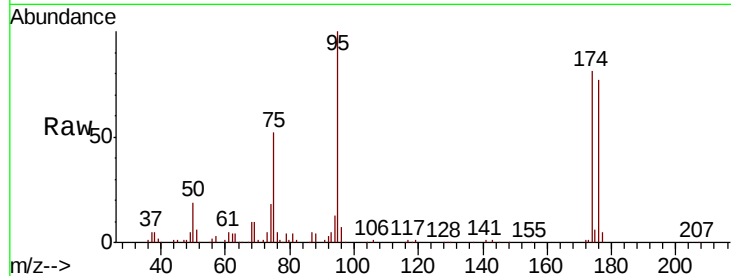
45BR-20200622

Tot Ion: 75 Resp: 79562

Ion Ratio Lower Upper

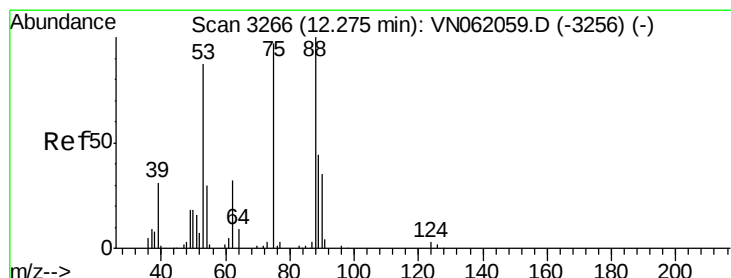
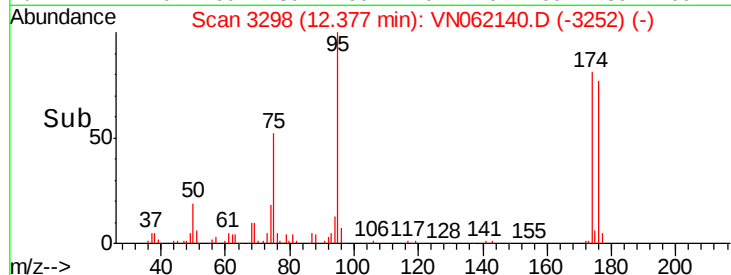
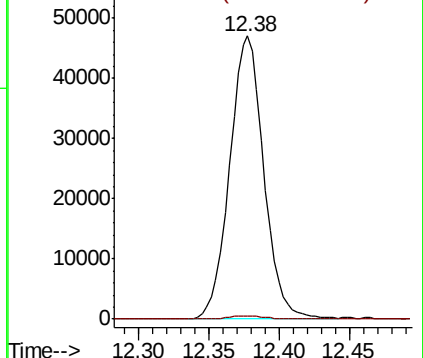
75 100

77 1.1 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: 74.251 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062140.D

Acq: 26 Jun 2020 15:25

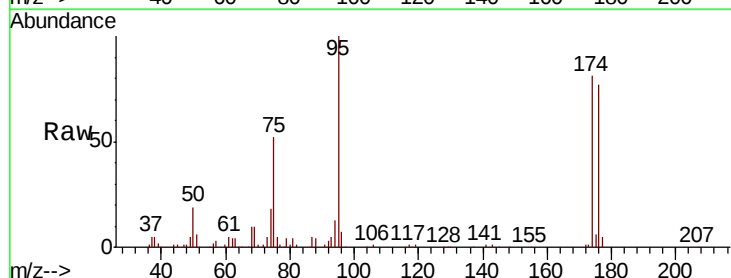
Tgt Ion: 75 Resp: 79562

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

