

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062920\
 Data File : VN062223.D
 Acq On : 30 Jun 2020 6:36
 Operator : JC/MD
 Sample : L3136-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-MW180-SOIL-570-572

Quant Time: Jun 30 08:02:42 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	195126	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	385274	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	387797	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	133508	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	151224	55.23	ug/l	0.00
Spiked Amount			Recovery	=	110.46%	
35) Dibromofluoromethane	7.55	113	126342	51.12	ug/l	0.00
Spiked Amount			Recovery	=	102.24%	
50) Toluene-d8	10.06	98	509395	51.56	ug/l	0.00
Spiked Amount			Recovery	=	103.12%	
62) 4-Bromofluorobenzene	12.38	95	160599	48.11	ug/l	0.00
Spiked Amount			Recovery	=	96.22%	

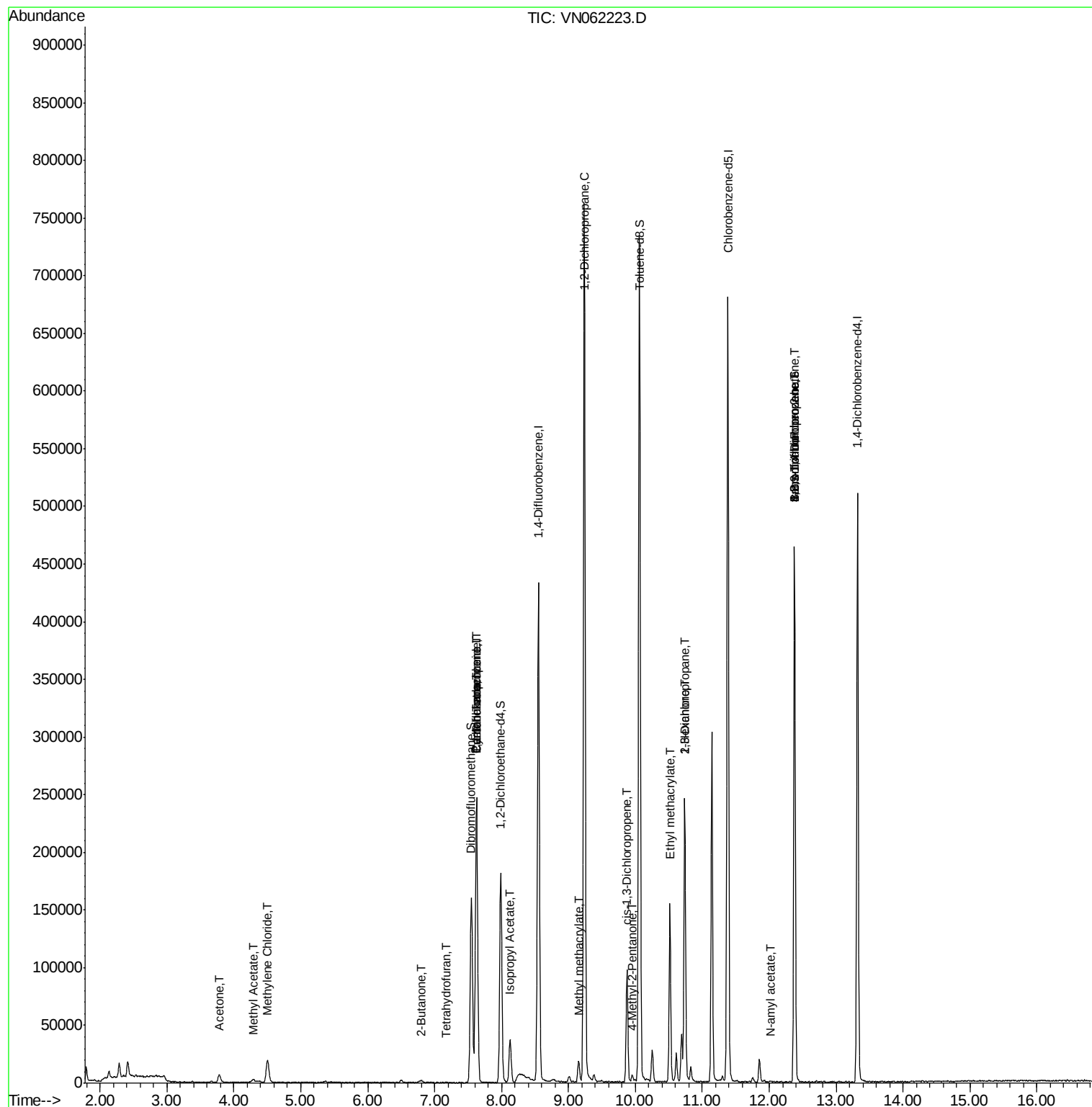
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	205	Below Cal	#	41
16) Acetone	3.78	43	12108	10.201	ug/l	98
18) Methyl Acetate	4.29	43	4709	2.163	ug/l #	70
20) Methylene Chloride	4.50	84	15197	5.854	ug/l	99
25) 2-Butanone	6.80	43	3136	2.343	ug/l	93
29) Tetrahydrofuran	7.18	42	290	0.331	ug/l #	28
31) Cyclohexane	7.62	56	4852	1.283	ug/l #	6
36) 1,1-Dichloropropene	7.63	75	16528	4.268	ug/l #	48
38) Carbon Tetrachloride	7.62	117	20111	5.508	ug/l #	15
43) Isopropyl Acetate	8.13	43	43084	8.242	ug/l	97
45) 1,2-Dichloropropane	9.23	63	914	0.314	ug/l #	43
48) Methyl methacrylate	9.15	41	2936	1.253	ug/l #	6
51) 4-Methyl-2-Pentanone	9.95	43	3999	1.309	ug/l	88
54) cis-1,3-Dichloropropene	9.87	75	17854	3.824	ug/l #	70
56) Ethyl methacrylate	10.52	69	856	0.227	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	2967	0.609	ug/l #	42
59) 2-Hexanone	10.74	43	33776	15.315	ug/l #	50
71) Bromoform	12.38	173	1478	0.706	ug/l #	1
74) N-amyl acetate	12.00	43	193	3.390	ug/l #	38
76) 1,2,3-Trichloropropane	12.38	75	81810	26.030	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	81810	76.018	ug/l #	13

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

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Quant Title : SW846 8260
QLast Update : Wed Jun 24 15:33:00 2020
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: VN062223.D

Acq: 30 Jun 2020 6:36

Instrument :

MSVOA_N

ClientSampleId :

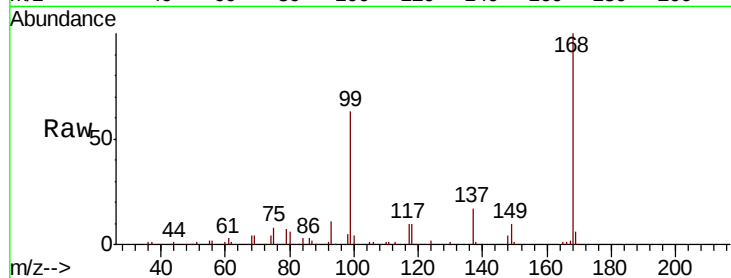
BP-MW180-SOIL-570-572

Tot Ion:168 Resp: 195126

Ion Ratio Lower Upper

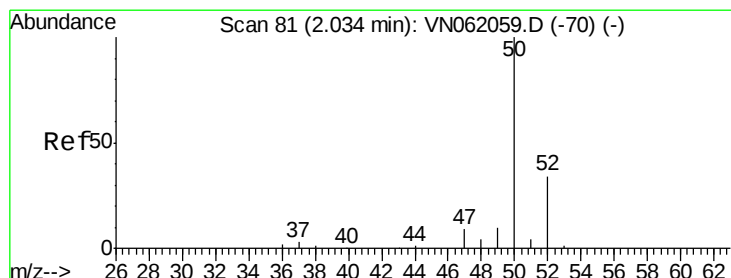
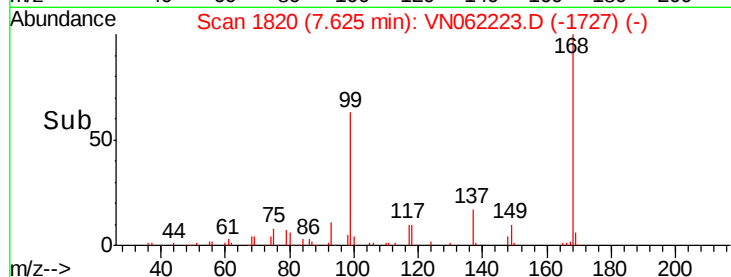
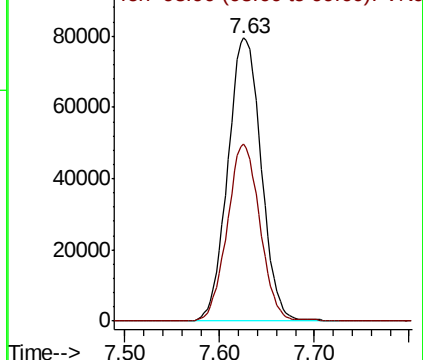
168 100

99 62.8 45.8 68.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN062223.D

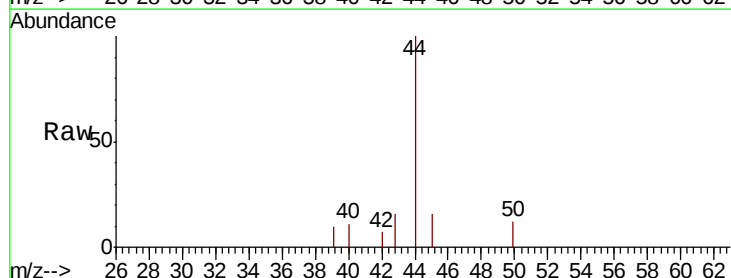
Acq: 30 Jun 2020 6:36

Tgt Ion: 50 Resp: 205

Ion Ratio Lower Upper

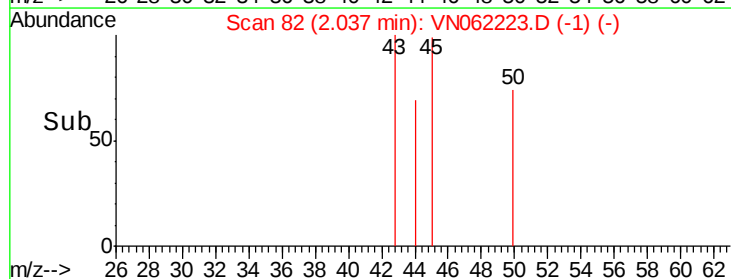
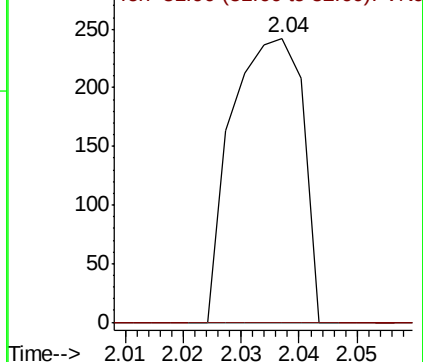
50 100

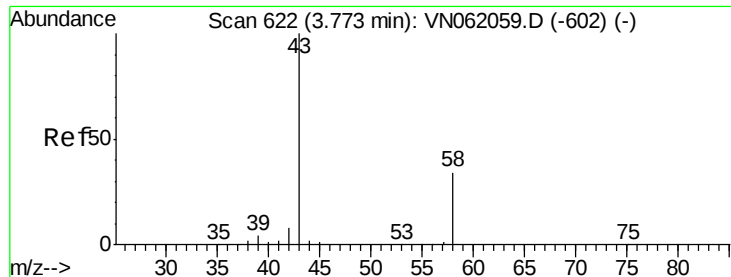
52 0.0 27.0 40.6#



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0





#16

Acetone

Concen: 10.201 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.01 min

Lab File: VN062223.D

Acq: 30 Jun 2020 6:36

Instrument :

MSVOA_N

ClientSampleId :

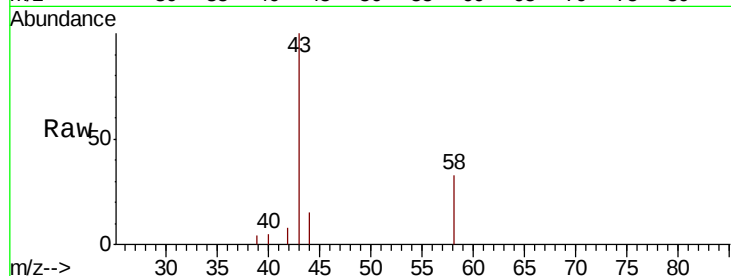
BP-MW180-SOIL-570-572

Tot Ion: 43 Resp: 12108

Ion Ratio Lower Upper

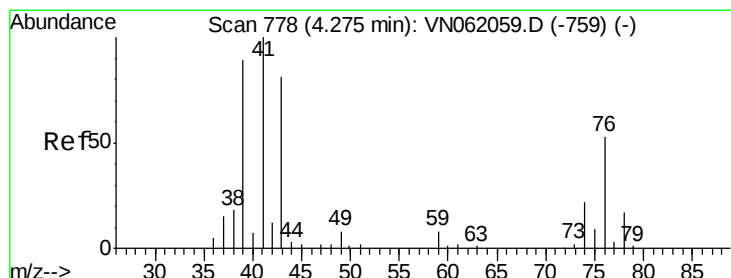
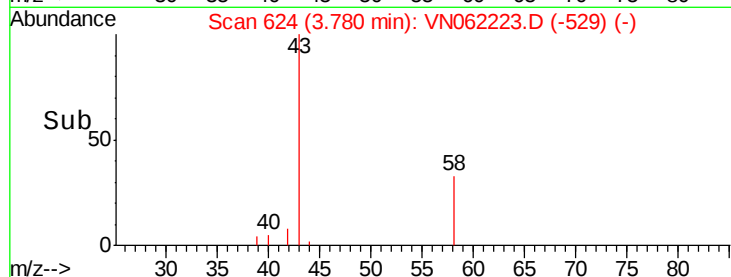
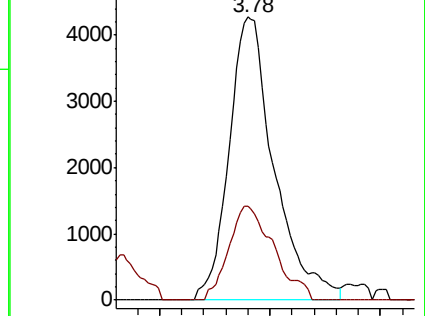
43 100

58 33.3 27.5 41.3



Abundance Ion 43.00 (42.70 to 43.70): VN062059.D (-602) (-)

Ion 58.00 (57.70 to 58.70): VN062059.D (-602) (-)



#18

Methyl Acetate

Concen: 2.163 ug/l

RT: 4.29 min Scan# 783

Delta R.T. 0.02 min

Lab File: VN062223.D

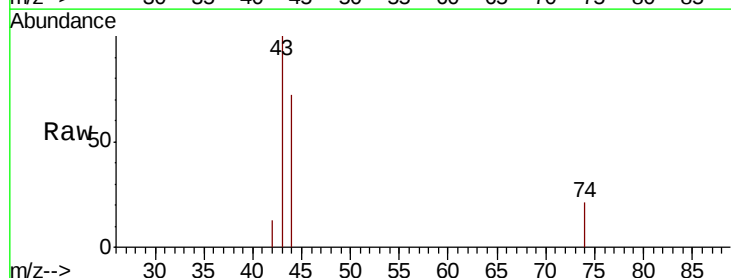
Acq: 30 Jun 2020 6:36

Tgt Ion: 43 Resp: 4709

Ion Ratio Lower Upper

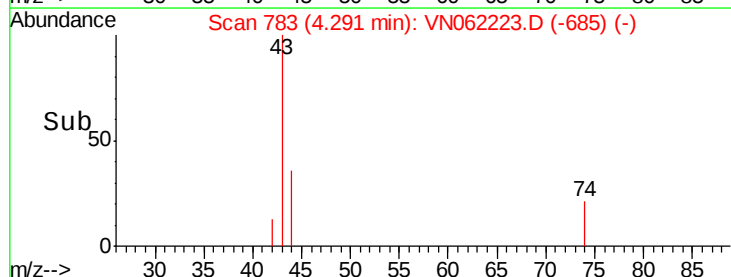
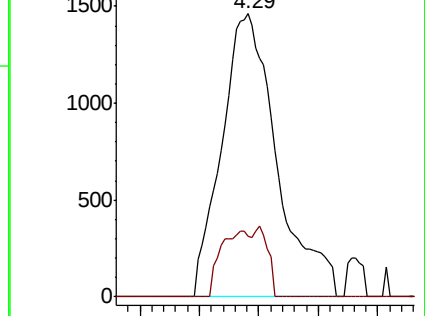
43 100

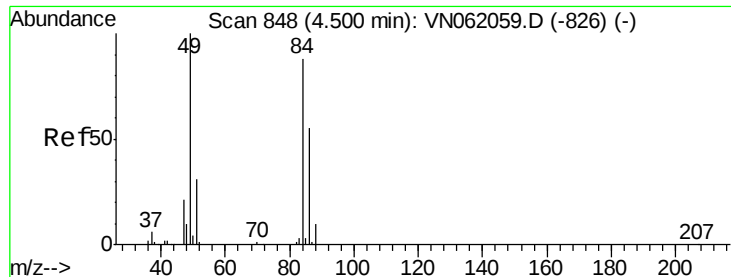
74 12.9 22.9 34.3#



Abundance Ion 43.00 (42.70 to 43.70): VN062059.D (-759) (-)

Ion 74.00 (73.70 to 74.70): VN062059.D (-759) (-)

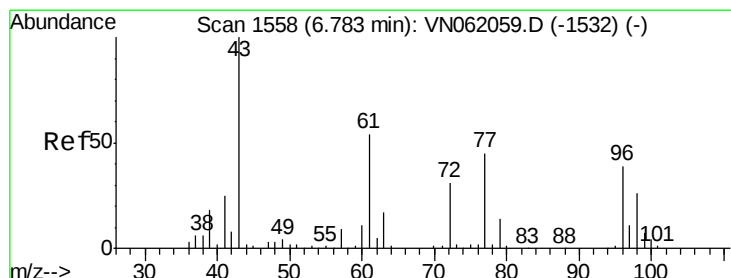
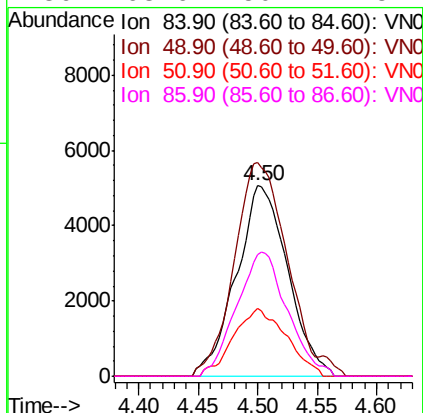
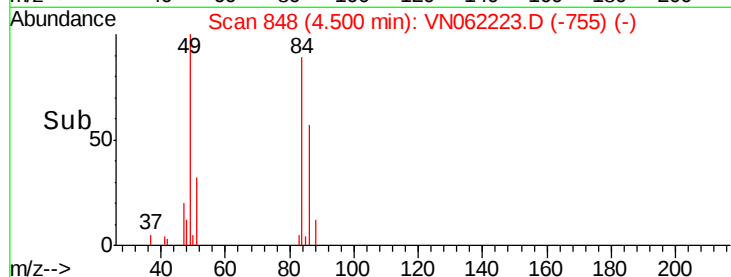
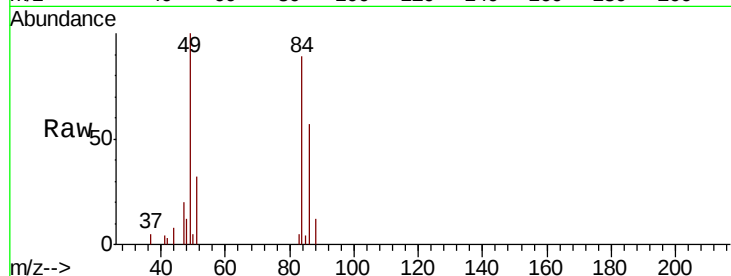




#20
Methvlene Chloride
Concen: 5.854 ug/l
RT: 4.50 min Scan# 848
Delta R.T. -0.00 min
Lab File: VN062223.D
Acq: 30 Jun 2020 6:36

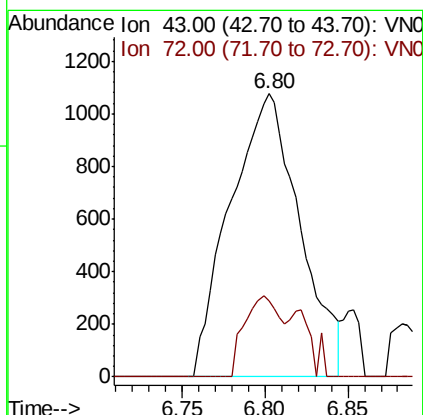
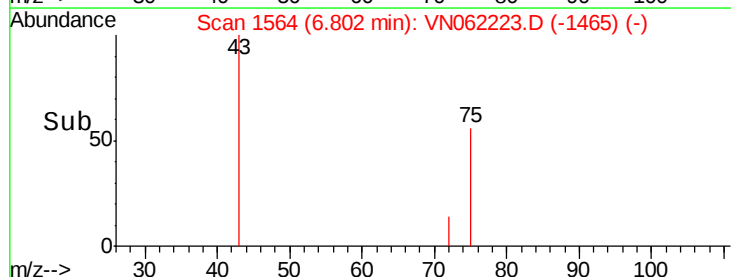
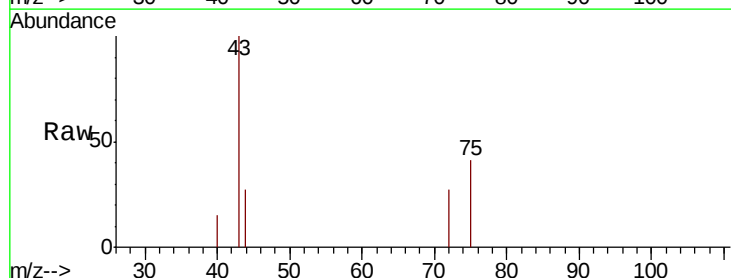
Instrument :
MSVOA_N
ClientSampleId :
BP-MW180-SOIL-570-572

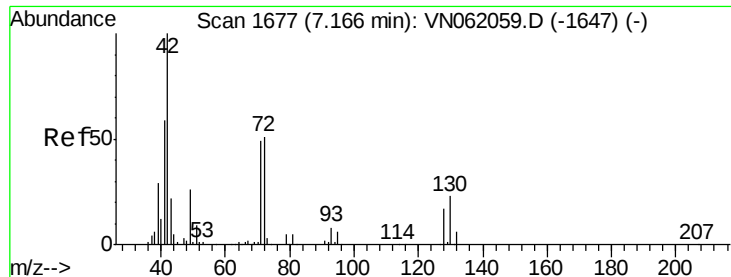
Tot Ion:	84	Resp:	15197
Ion	Ratio	Lower	Upper
84	100		
49	112.0	90.6	136.0
51	35.3	27.8	41.8
86	63.6	50.1	75.1



#25
2-Butanone
Concen: 2.343 ug/l
RT: 6.80 min Scan# 1564
Delta R.T. 0.02 min
Lab File: VN062223.D
Acq: 30 Jun 2020 6:36

Tgt Ion:	43	Resp:	3136
Ion	Ratio	Lower	Upper
43	100		
72	27.0	24.8	37.2





#29

Tetrahydrofuran

Concen: 0.331 ug/l

RT: 7.18 min Scan# 1682

Delta R.T. 0.02 min

Lab File: VN062223.D

Acq: 30 Jun 2020 6:36

Instrument :

MSVOA_N

ClientSampleId :

BP-MW180-SOIL-570-572

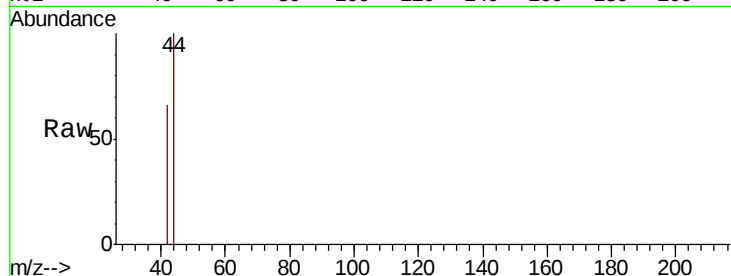
Tot Ion: 42 Resp: 290

Ion Ratio Lower Upper

42 100

72 0.0 41.1 61.7#

71 0.0 38.2 57.4#

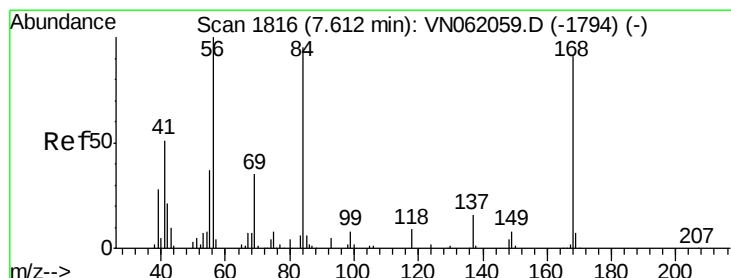
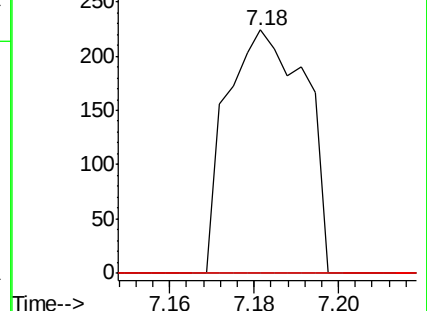
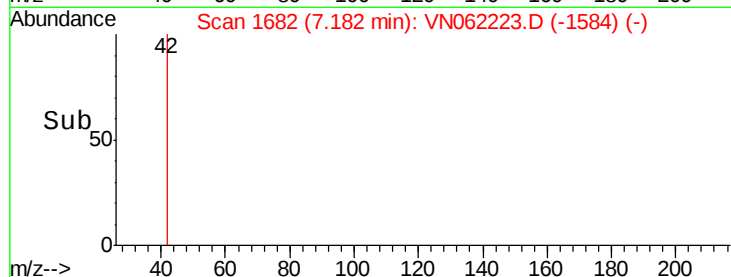


Abundance Ion 42.00 (41.70 to 42.70): VN062059.D (-1647) (-)

Ion 72.00 (71.70 to 72.70): VN062059.D (-1647) (-)

Ion 71.00 (70.70 to 71.70): VN062059.D (-1647) (-)

7.18



#31

Cyclohexane

Concen: 1.283 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. 0.01 min

Lab File: VN062223.D

Acq: 30 Jun 2020 6:36

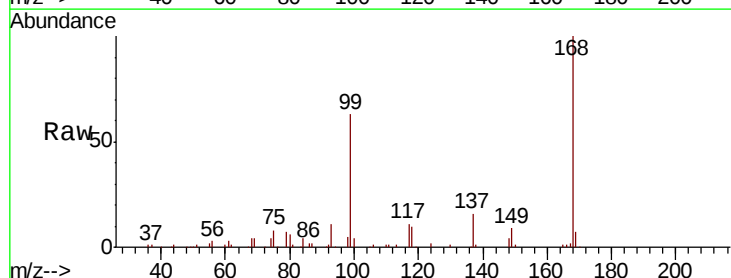
Tgt Ion: 56 Resp: 4852

Ion Ratio Lower Upper

56 100

69 165.8 28.0 42.0#

84 139.3 76.1 114.1#

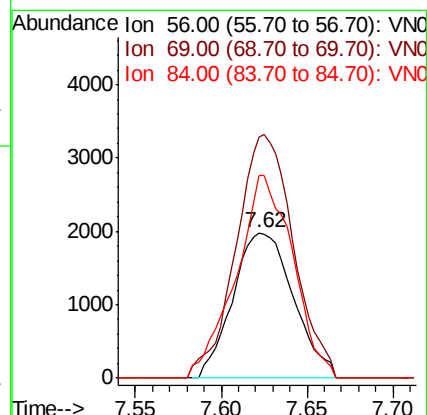
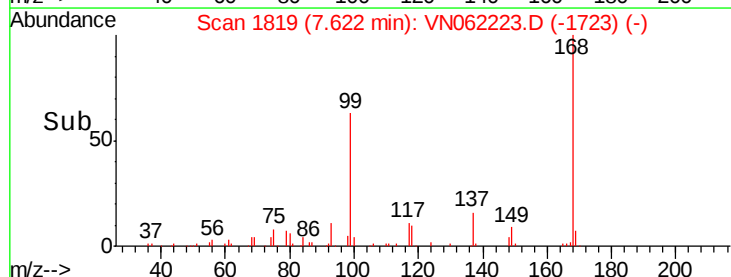


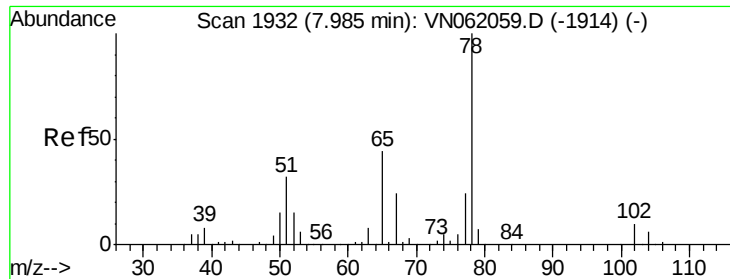
Abundance Ion 56.00 (55.70 to 56.70): VN062059.D (-1794) (-)

Ion 69.00 (68.70 to 69.70): VN062059.D (-1794) (-)

Ion 84.00 (83.70 to 84.70): VN062059.D (-1794) (-)

7.62

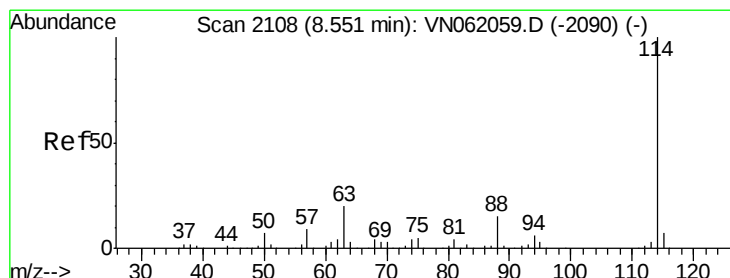
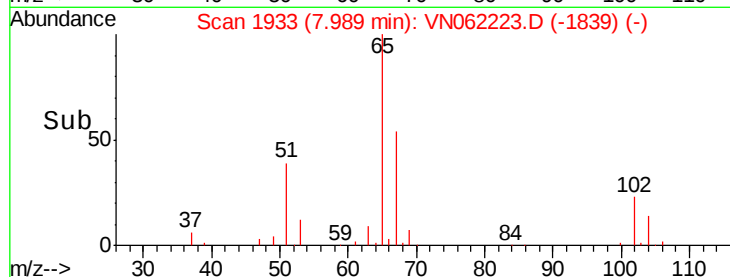
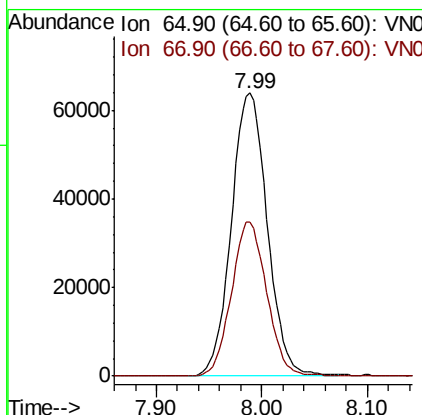
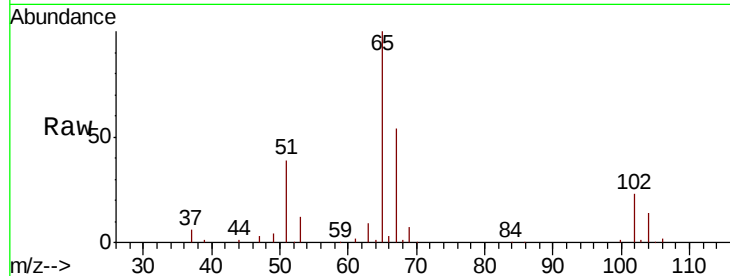




#33
 1,2-Dichloroethane-d4
 Concen: 55.226 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. 0.00 min
 Lab File: VN062223.D
 Acq: 30 Jun 2020 6:36

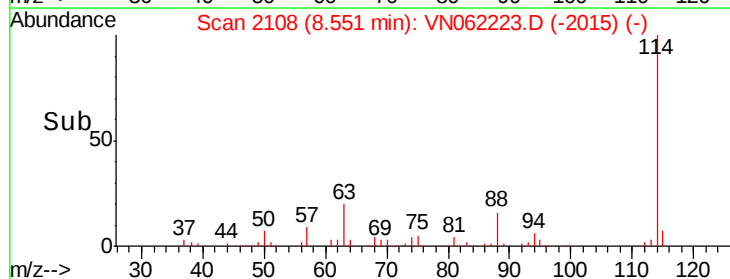
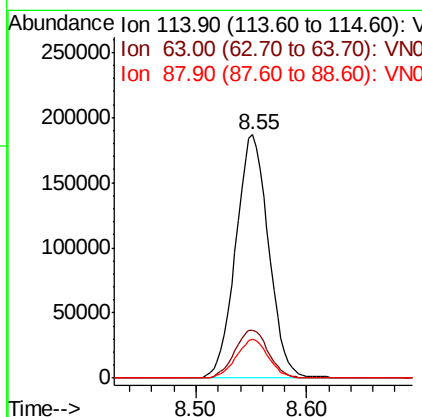
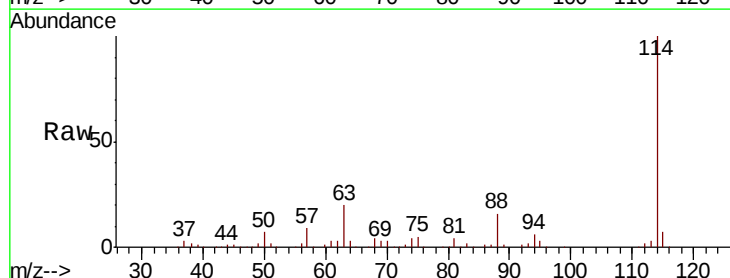
Instrument :
 MSVOA_N
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 BP-MW180-SOIL-570-572

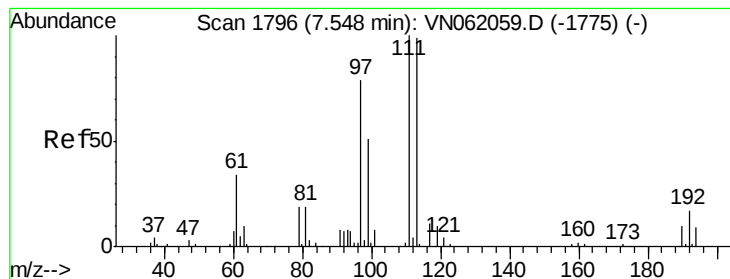
Tot Ion: 65 Resp: 151224
 Ion Ratio Lower Upper
 65 100
 67 53.4 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN062223.D
 Acq: 30 Jun 2020 6:36

Tgt Ion: 114 Resp: 385274
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 39.2
 88 15.8 0.0 30.8





#35

Dibromofluoromethane

Concen: 51.115 ug/l

RT: 7.55 min Scan# 1796

Delta R.T. -0.00 min

Lab File: VN062223.D

Acq: 30 Jun 2020 6:36

Instrument :

MSVOA_N

ClientSampleId :

BP-MW180-SOIL-570-572

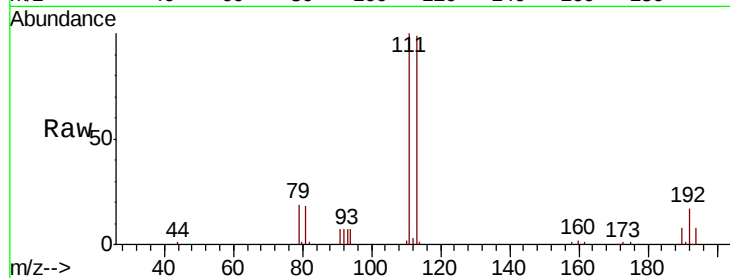
Tot Ion:113 Resp: 126342

Ion Ratio Lower Upper

113 100

111 102.6 82.2 123.4

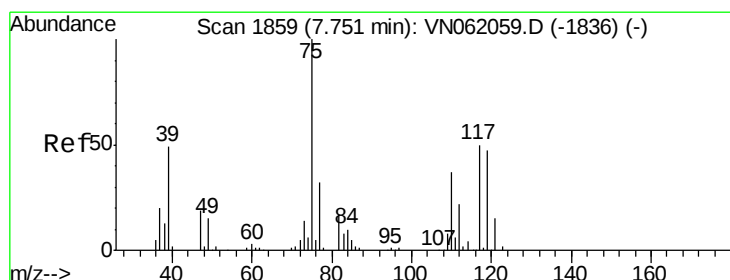
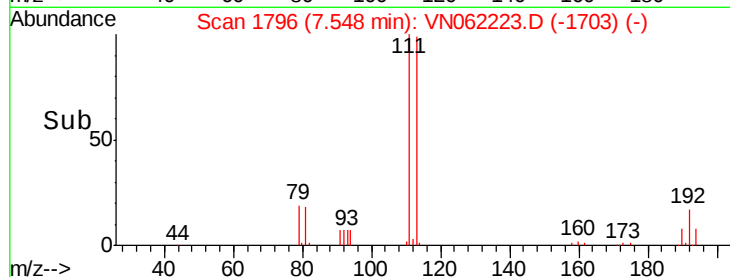
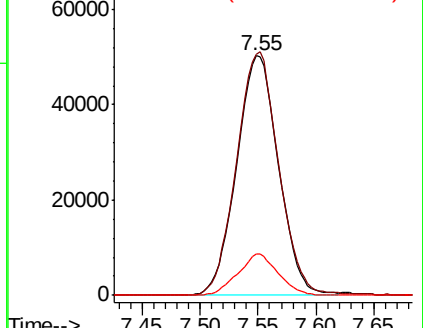
192 16.5 14.0 21.0



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: 4.268 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.13 min

Lab File: VN062223.D

Acq: 30 Jun 2020 6:36

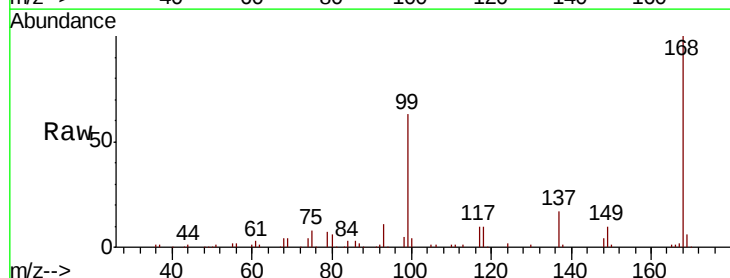
Tgt Ion: 75 Resp: 16528

Ion Ratio Lower Upper

75 100

110 7.3 17.9 53.8#

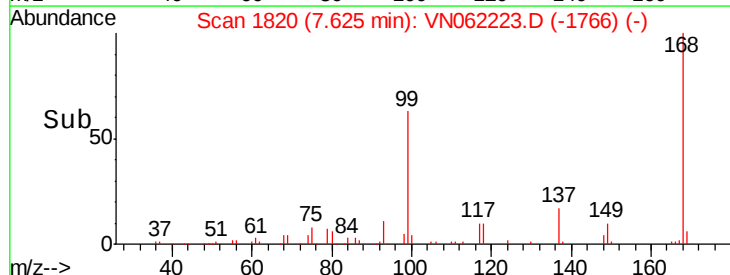
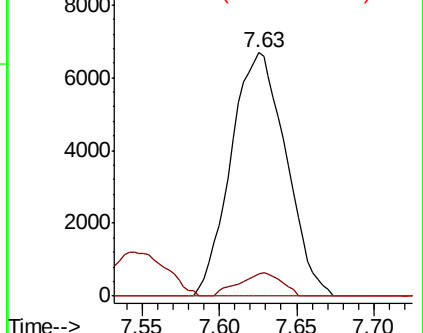
77 0.0 24.9 37.3#

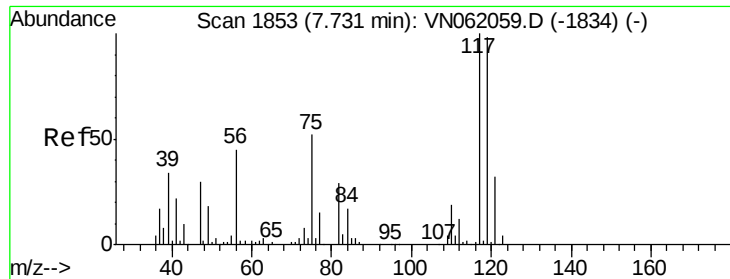


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 5.508 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. -0.11 min

Lab File: VN062223.D

Acq: 30 Jun 2020 6:36

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ClientSampleId :

BP-MW180-SOIL-570-572

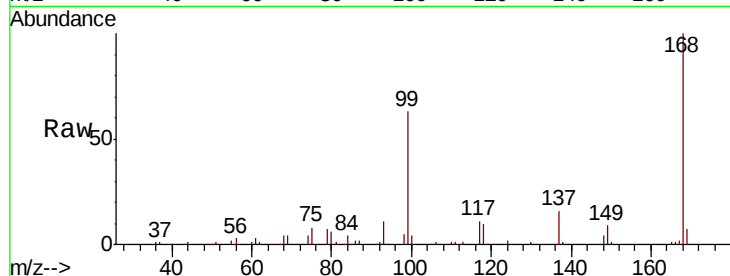
Tot Ion:117 Resp: 20111

Ion Ratio Lower Upper

117 100

119 4.3 78.2 117.2#

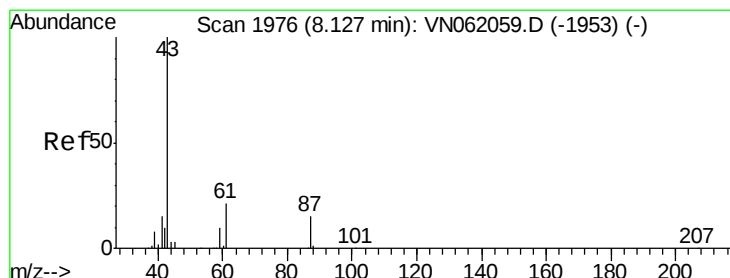
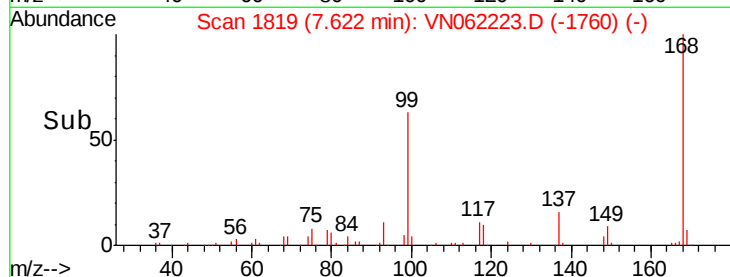
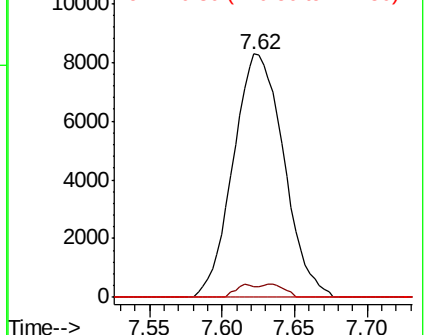
121 0.0 25.8 38.6#



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



#43

Isopropyl Acetate

Concen: 8.242 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. -0.00 min

Lab File: VN062223.D

Acq: 30 Jun 2020 6:36

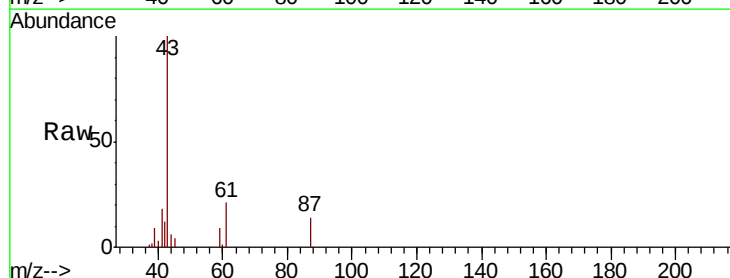
Tgt Ion: 43 Resp: 43084

Ion Ratio Lower Upper

43 100

61 20.4 17.2 25.8

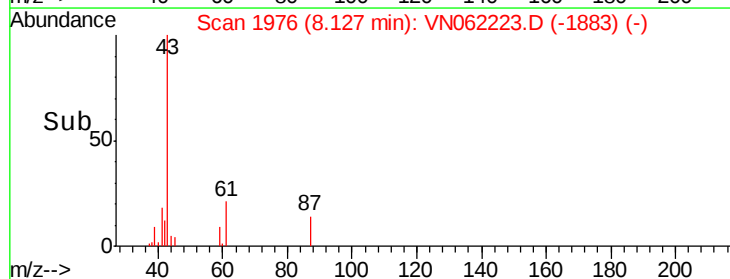
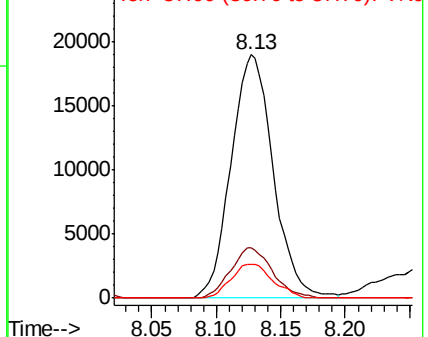
87 13.7 12.1 18.1

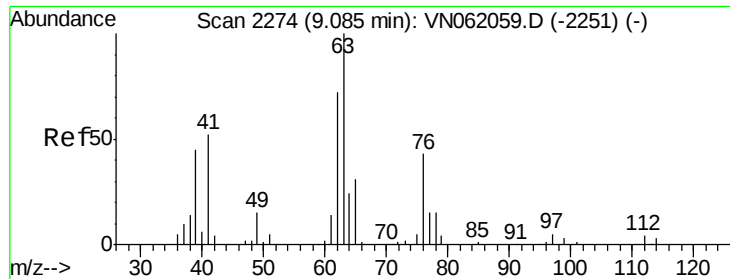


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#45

1,2-Dichloropropane

Concen: 0.314 ug/l

RT: 9.23 min Scan# 2320

Delta R.T. 0.15 min

Lab File: VN062223.D

Acq: 30 Jun 2020 6:36

Instrument :

MSVOA_N

ClientSampleId :

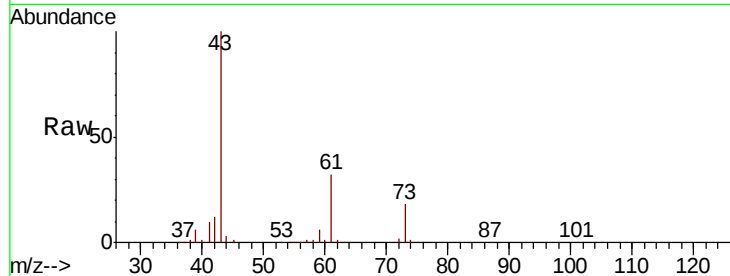
BP-MW180-SOIL-570-572

Tot Ion: 63 Resp: 914

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.4#



Abundance Ion 62.90 (62.60 to 63.60): VN062223.D (-2320) (-)

Ion 64.90 (64.60 to 65.60): VN062223.D (-2320) (-)

9.23

500

400

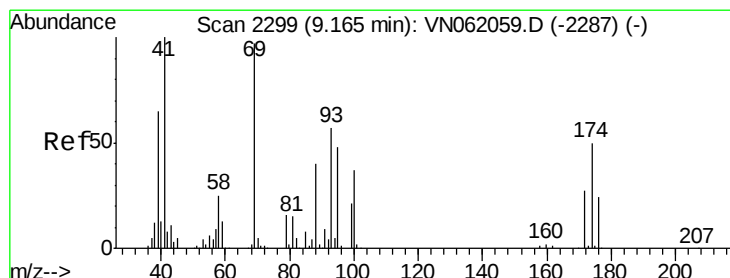
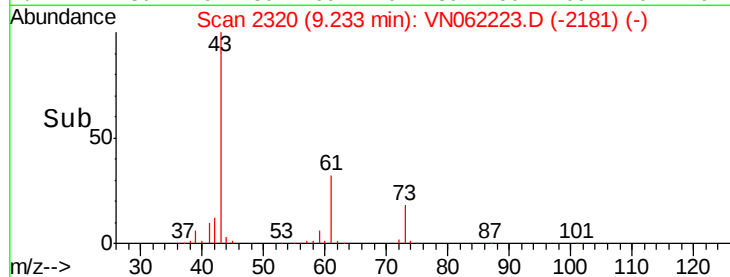
300

200

100

0

Time-->



#48

Methyl methacrylate

Concen: 1.253 ug/l

RT: 9.15 min Scan# 2294

Delta R.T. -0.02 min

Lab File: VN062223.D

Acq: 30 Jun 2020 6:36

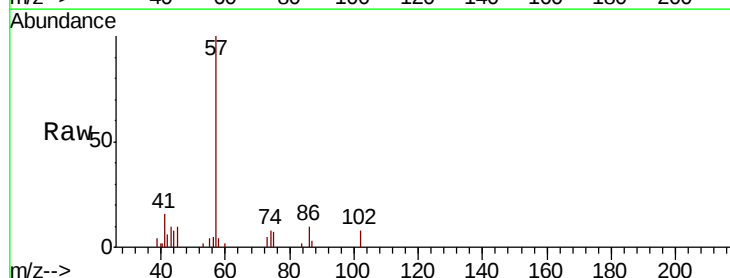
Tgt Ion: 41 Resp: 2936

Ion Ratio Lower Upper

41 100

69 0.0 80.7 121.1#

39 0.0 54.5 81.7#



Abundance Ion 41.00 (40.70 to 41.70): VN062223.D (-2294) (-)

Ion 69.00 (68.70 to 69.70): VN062223.D (-2294) (-)

Ion 39.00 (38.70 to 39.70): VN062223.D (-2294) (-)

20000

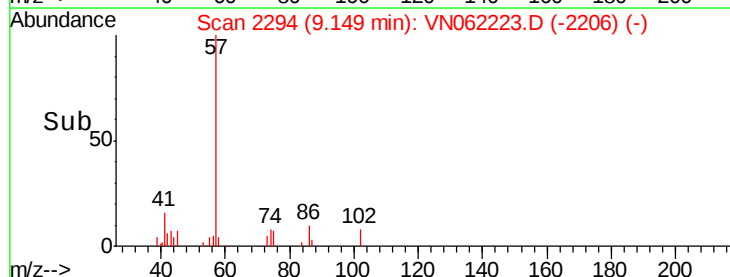
15000

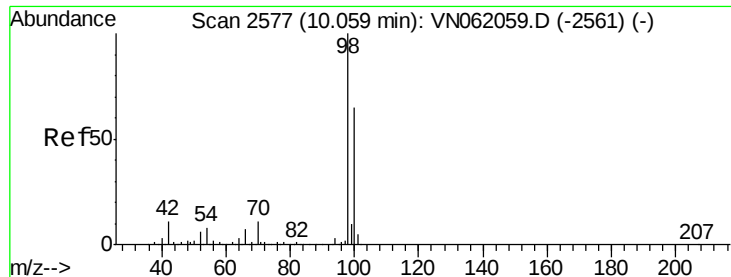
10000

5000

0

Time-->





#50

Toluene-d8

Concen: 51.557 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN062223.D

Acq: 30 Jun 2020 6:36

Instrument :

MSVOA_N

ClientSampleId :

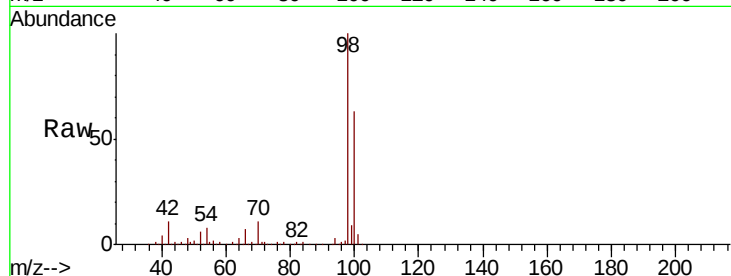
BP-MW180-SOIL-570-572

Tot Ion: 98 Resp: 509395

Ion Ratio Lower Upper

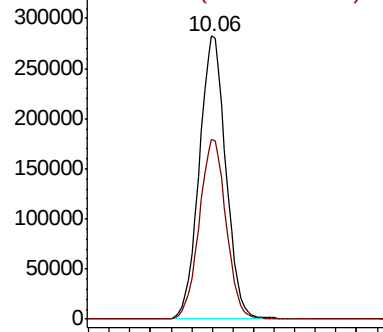
98 100

100 63.7 51.2 76.8

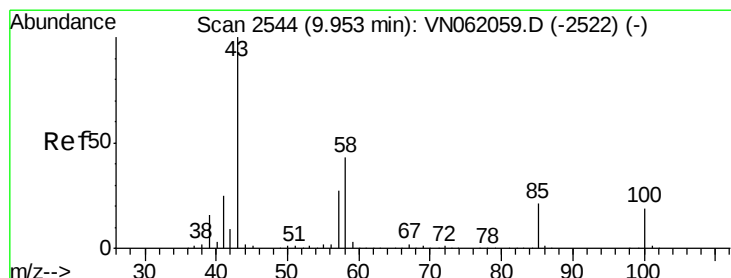
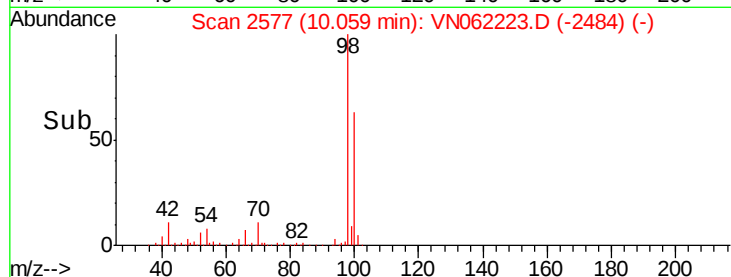


Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.309 ug/l

RT: 9.95 min Scan# 2543

Delta R.T. -0.00 min

Lab File: VN062223.D

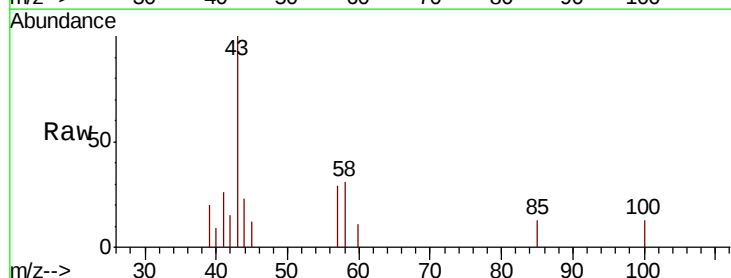
Acq: 30 Jun 2020 6:36

Tgt Ion: 43 Resp: 3999

Ion Ratio Lower Upper

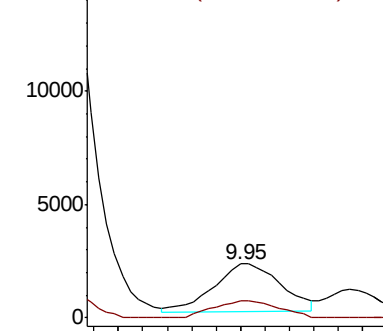
43 100

58 35.0 34.2 51.2

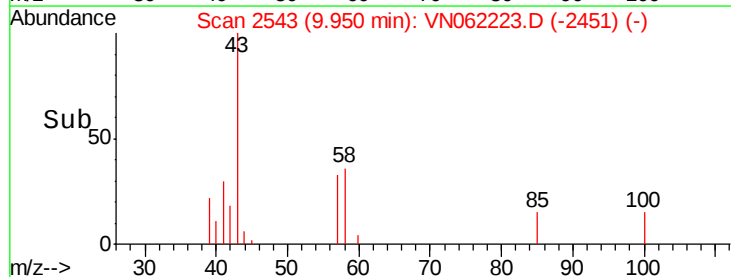


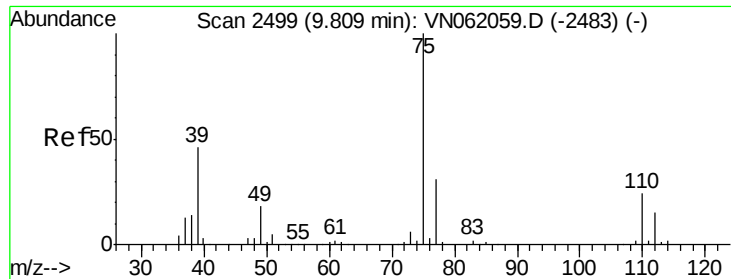
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time-->

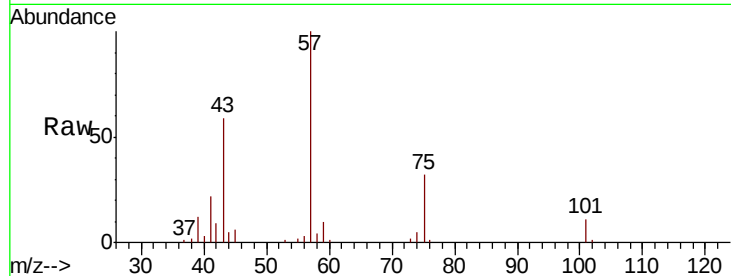




#54
 cis-1,3-Dichloropropene
 Concen: 3.824 ug/l
 RT: 9.87 min Scan# 2519
 Delta R.T. 0.06 min
 Lab File: VN062223.D
 Acq: 30 Jun 2020 6:36

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-MW180-SOIL-570-572

Tot Ion	Ratio	Lower	Upper
75	100		
77	0.0	25.0	37.6#
39	38.3	36.9	55.3

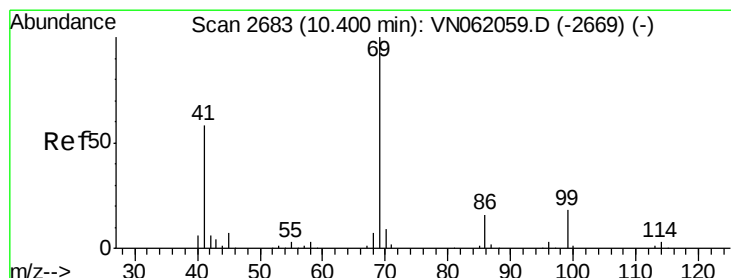
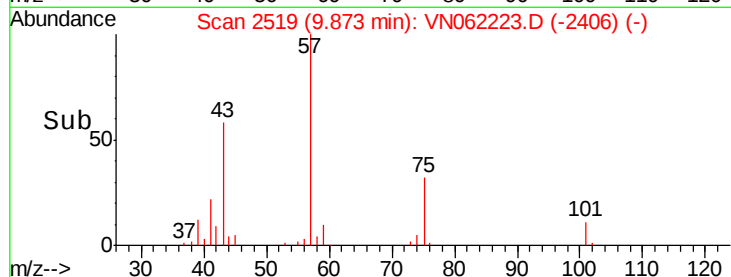
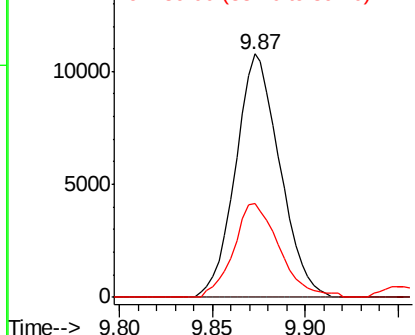


Abundance

Ion 74.90 (74.60 to 75.60): VN0

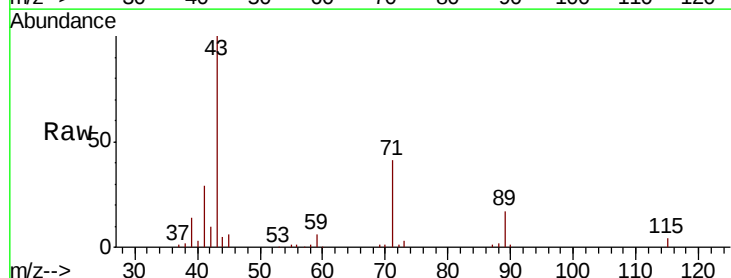
Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#56
 Ethyl methacrylate
 Concen: 0.227 ug/l
 RT: 10.52 min Scan# 2720
 Delta R.T. 0.12 min
 Lab File: VN062223.D
 Acq: 30 Jun 2020 6:36

Tgt Ion	Ratio	Lower	Upper
69	100		
41	3595.8	46.6	70.0#
39	1782.4	31.0	46.4#

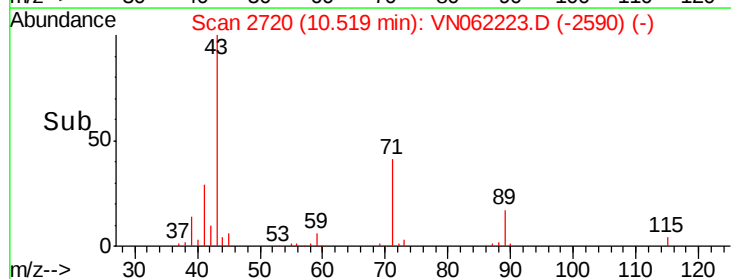
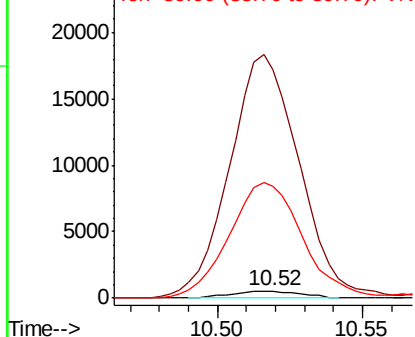


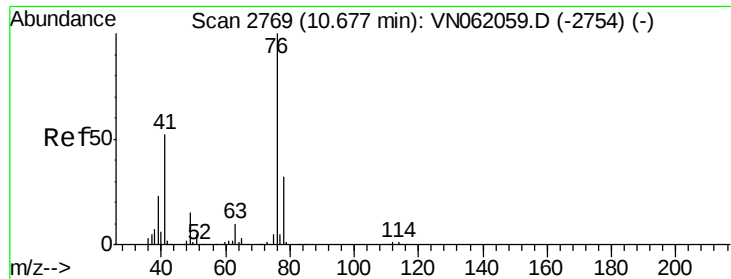
Abundance

Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 0.609 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.06 min

Lab File: VN062223.D

Acq: 30 Jun 2020 6:36

Instrument :

MSVOA_N

ClientSampleId :

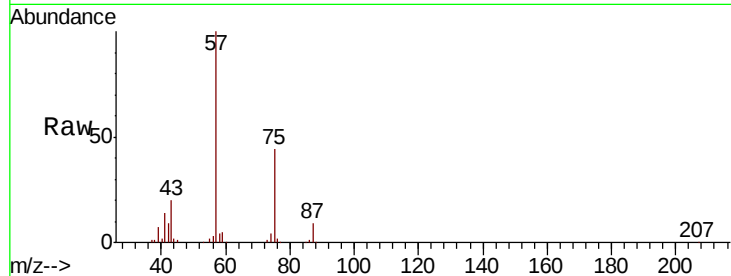
BP-MW180-SOIL-570-572

Tot Ion: 76 Resp: 2967

Ion Ratio Lower Upper

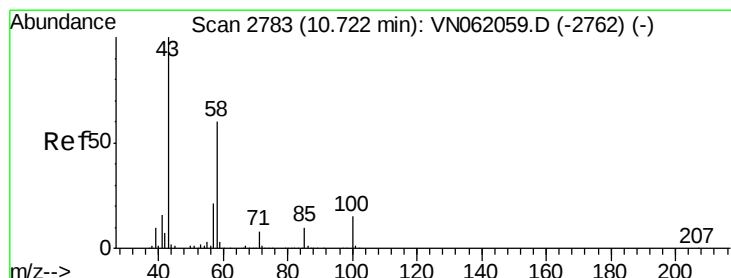
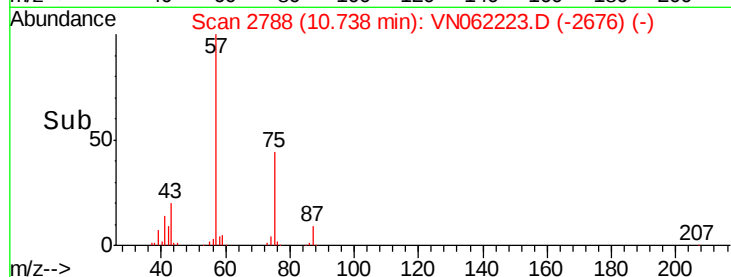
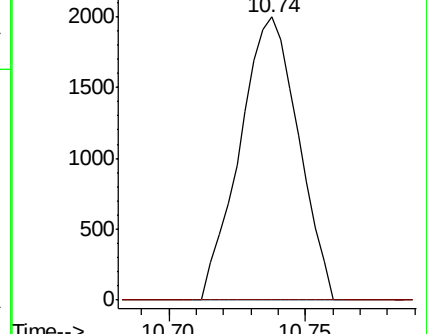
76 100

78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 15.315 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.02 min

Lab File: VN062223.D

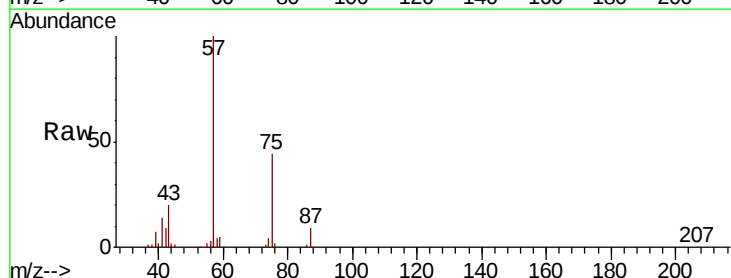
Acq: 30 Jun 2020 6:36

Tgt Ion: 43 Resp: 33776

Ion Ratio Lower Upper

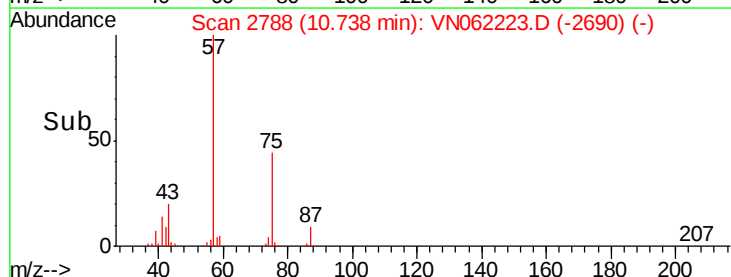
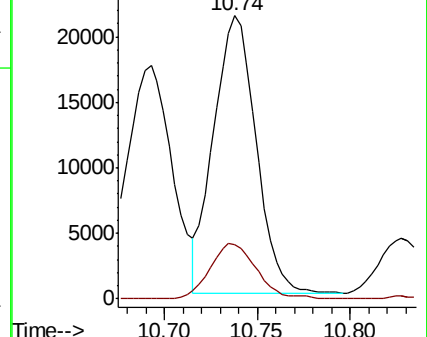
43 100

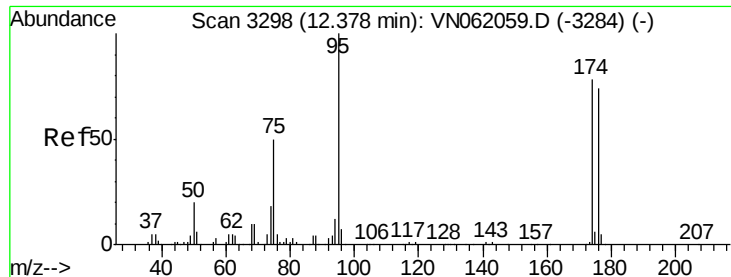
58 21.7 29.5 88.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

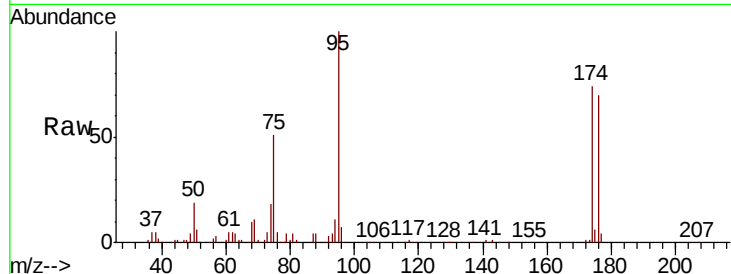




#62
4-Bromofluorobenzene
Concen: 48.110 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.00 min
Lab File: VN062223.D
Acq: 30 Jun 2020 6:36

Instrument :
MSVOA_N
ClientSampleId :
BP-MW180-SOIL-570-572

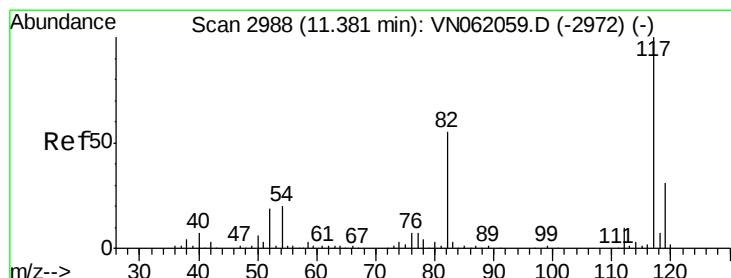
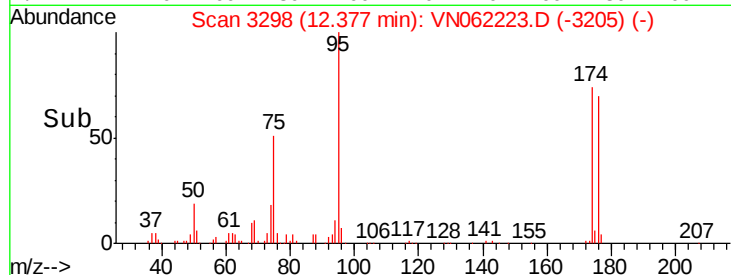
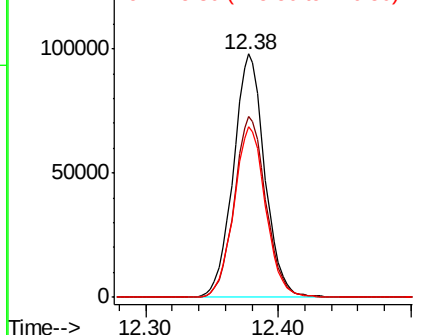
Tot Ion	95	Resp	160599
Ion Ratio	Lower	Upper	
95	100		
174	75.5	0.0	154.8
176	71.1	0.0	147.4



Abundance Ion 94.90 (94.60 to 95.60): VN062223.D (-3284) (-)

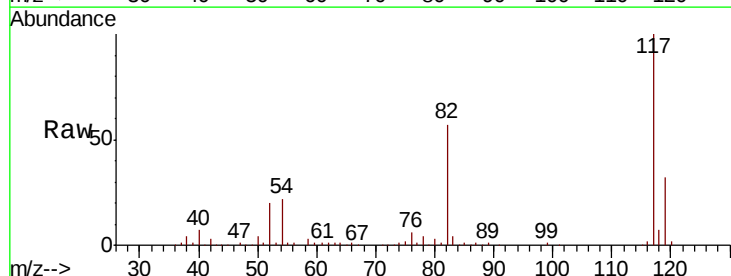
Ion 173.80 (173.50 to 174.50): VN062223.D (-3284) (-)

Ion 175.80 (175.50 to 176.50): VN062223.D (-3284) (-)



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN062223.D
Acq: 30 Jun 2020 6:36

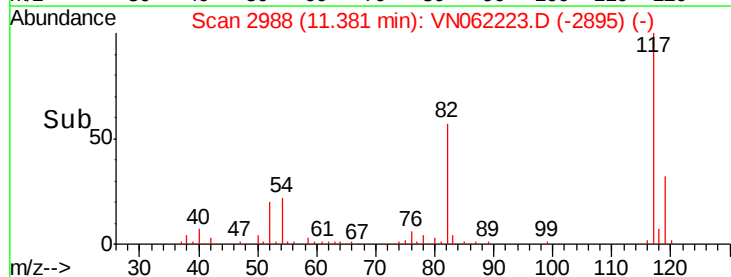
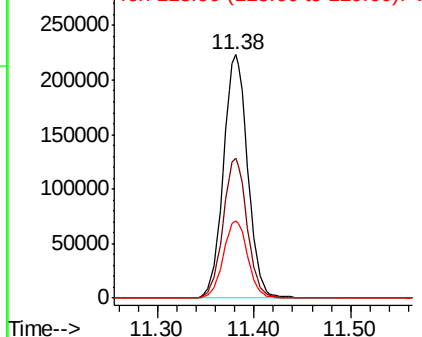
Tgt Ion	117	Resp	387797
Ion Ratio	Lower	Upper	
117	100		
82	57.3	43.8	65.8
119	31.8	25.2	37.8

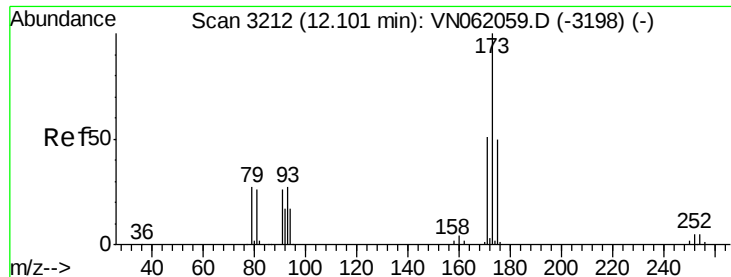


Abundance Ion 116.90 (116.60 to 117.60): VN062223.D (-2895) (-)

Ion 82.00 (81.70 to 82.70): VN062223.D (-2895) (-)

Ion 118.90 (118.60 to 119.60): VN062223.D (-2895) (-)





#71

Bromoform

Concen: 0.706 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.28 min

Lab File: VN062223.D

Acq: 30 Jun 2020 6:36

Instrument :

MSVOA_N

ClientSampleId :

BP-MW180-SOIL-570-572

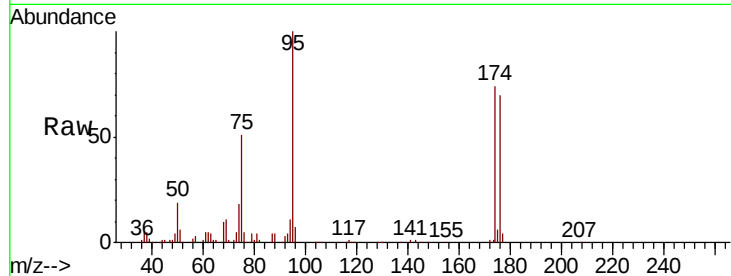
Tot Ion:173 Resp: 1478

Ion Ratio Lower Upper

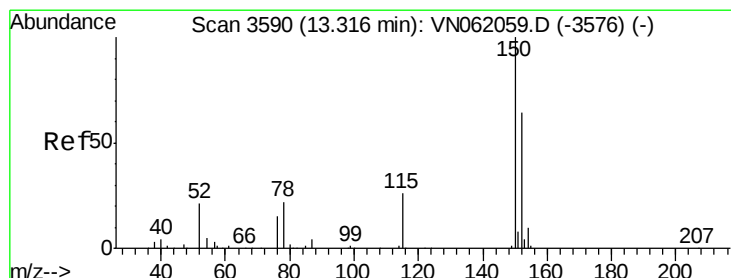
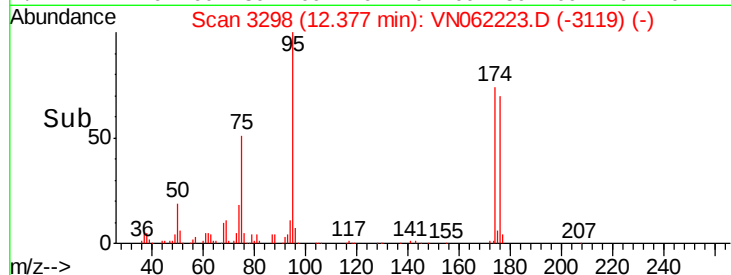
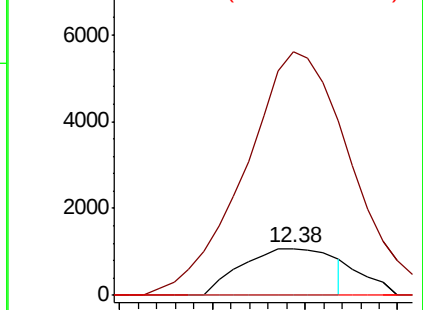
173 100

175 499.9 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: VN062223.D

Acq: 30 Jun 2020 6:36

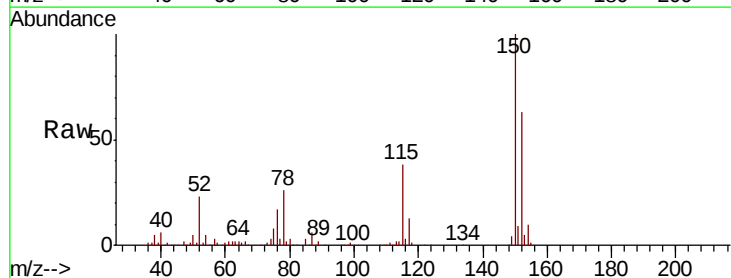
Tgt Ion:152 Resp: 133508

Ion Ratio Lower Upper

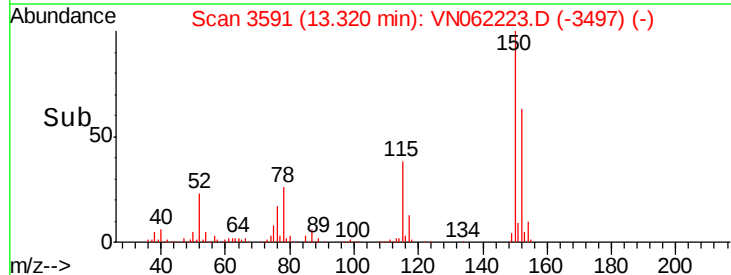
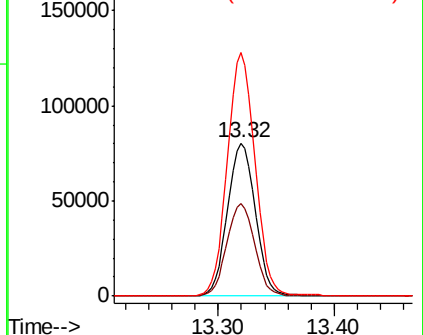
152 100

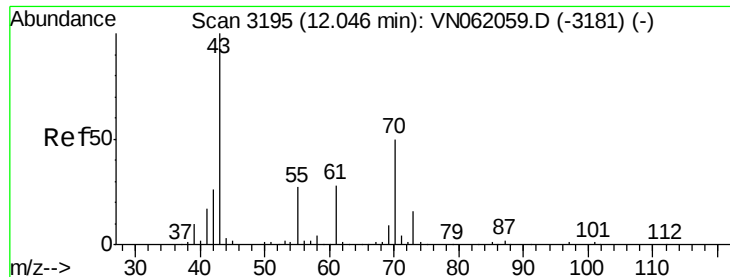
115 60.7 29.5 88.5

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





#74

N-amvl acetate

Concen: 3.390 ug/l

RT: 12.00 min Scan# 3182

Delta R.T. -0.04 min

Lab File: VN062223.D

Acq: 30 Jun 2020 6:36

Instrument :

MSVOA_N

ClientSampleId :

BP-MW180-SOIL-570-572

Tot Ion: 43 Resp: 193

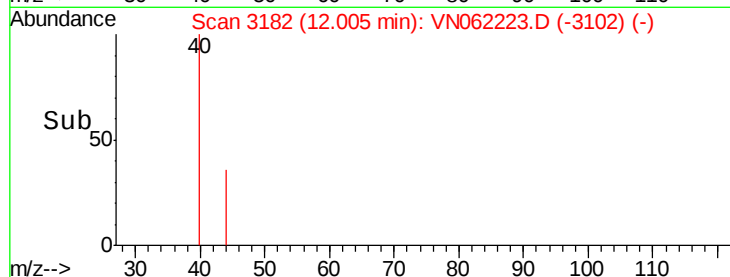
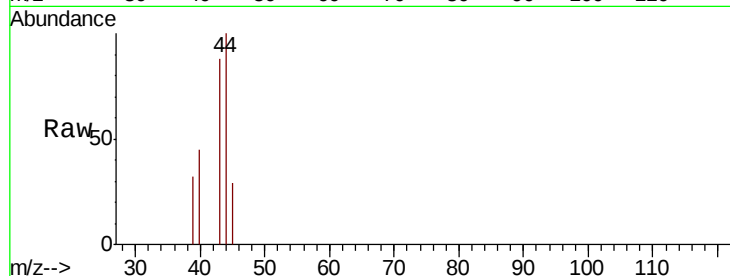
Ion Ratio Lower Upper

43 100

70 0.0 39.4 59.2#

55 0.0 21.7 32.5#

61 0.0 21.3 31.9#

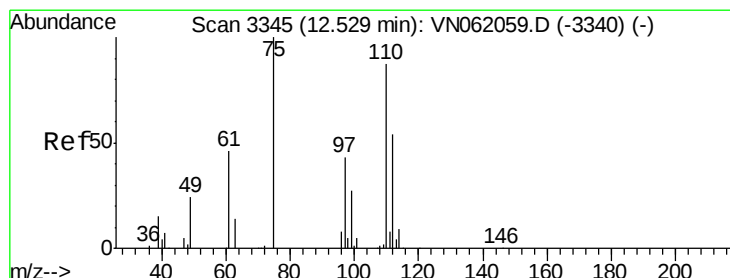
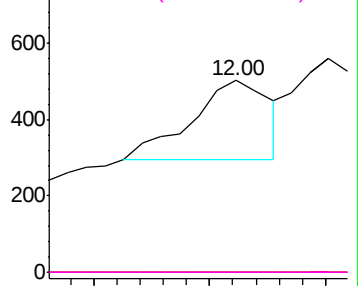


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 26.030 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062223.D

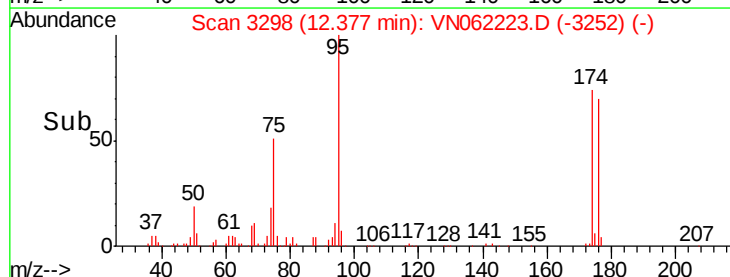
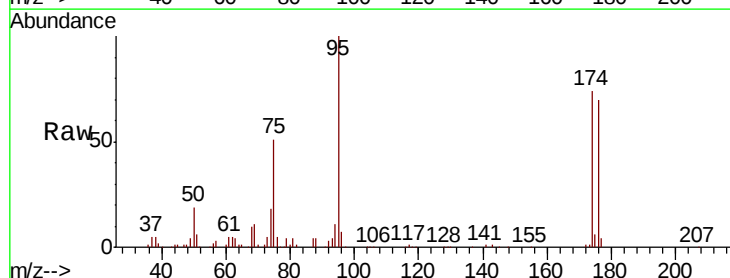
Acq: 30 Jun 2020 6:36

Tgt Ion: 75 Resp: 81810

Ion Ratio Lower Upper

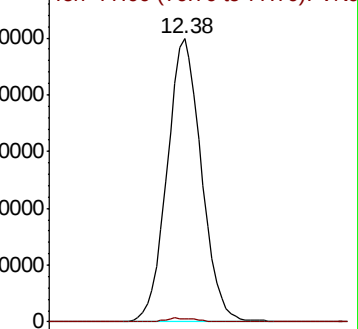
75 100

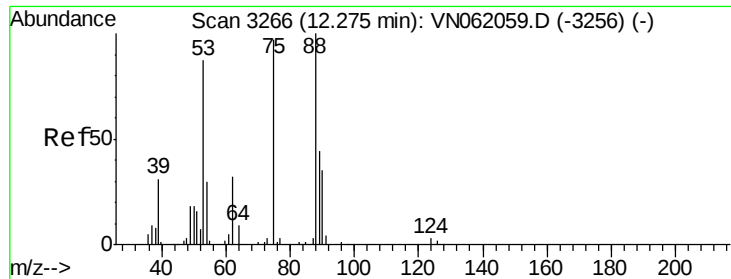
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 76.018 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062223.D

Acq: 30 Jun 2020 6:36

Instrument :

MSVOA_N

ClientSampleId :

BP-MW180-SOIL-570-572

Tot Ion: 75 Resp: 81810

Ion Ratio Lower Upper

75 100

53 0.0 72.0 108.0#

89 0.0 36.9 55.3#

