

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062920\
 Data File : VN062222.D
 Acq On : 30 Jun 2020 6:12
 Operator : JC/MD
 Sample : L2819-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BU-03-062620

Quant Time: Jun 30 06:39:09 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	188693	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	375800	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	374915	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	127357	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	148629	56.13	ug/l	0.00
Spiked Amount			Recovery	=	112.26%	
35) Dibromofluoromethane	7.55	113	122273	50.72	ug/l	0.00
Spiked Amount			Recovery	=	101.44%	
50) Toluene-d8	10.06	98	491044	50.95	ug/l	0.00
Spiked Amount			Recovery	=	101.90%	
62) 4-Bromofluorobenzene	12.38	95	154315	47.39	ug/l	0.00
Spiked Amount			Recovery	=	94.78%	

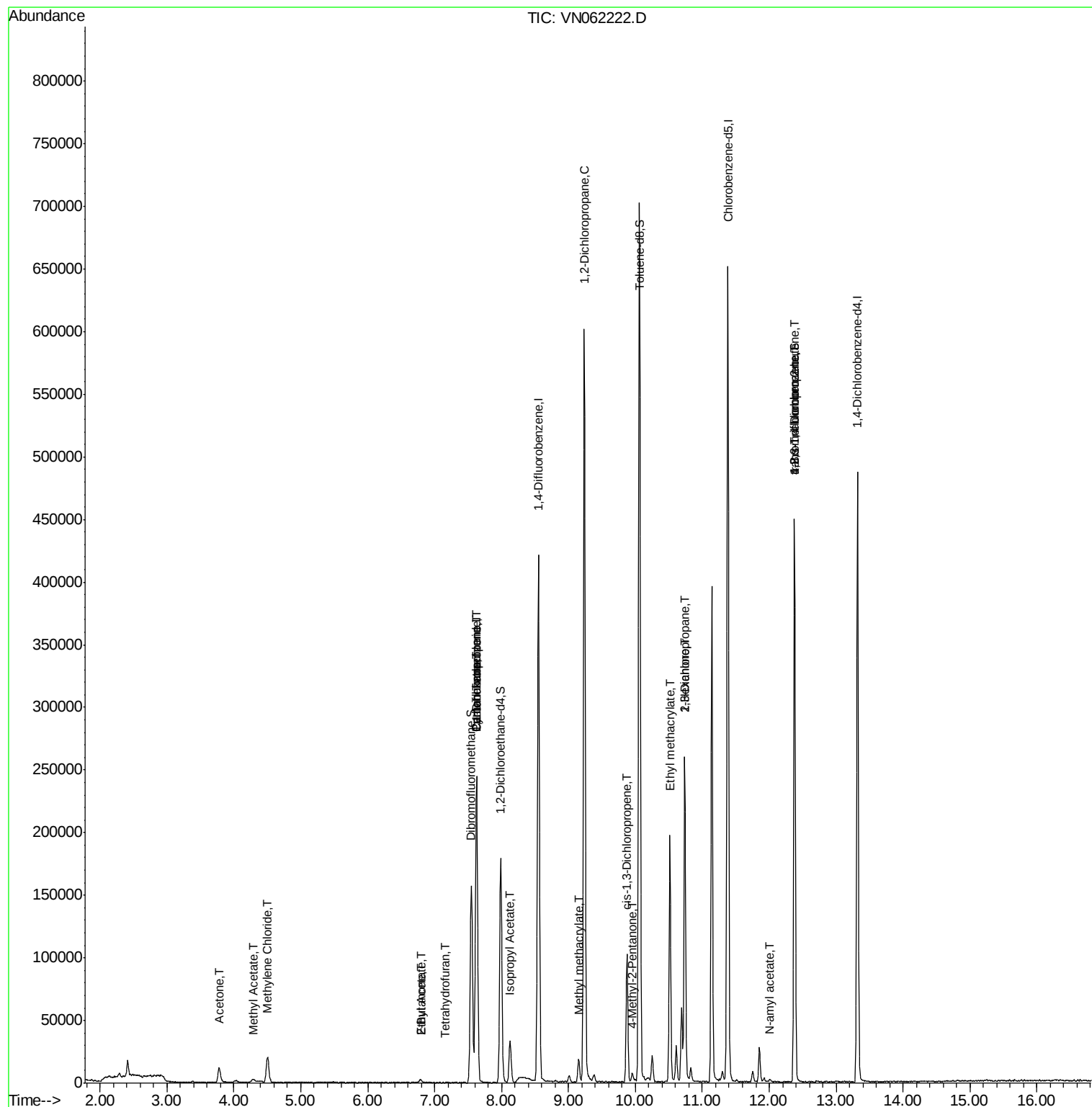
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	269	Below Cal	#	41
16) Acetone	3.78	43	20284	20.688	ug/l	91
18) Methyl Acetate	4.29	43	4469	2.123	ug/l #	78
20) Methylene Chloride	4.51	84	14928	5.950	ug/l #	95
25) 2-Butanone	6.80	43	3641	2.813	ug/l	91
29) Tetrahydrofuran	7.17	42	341	0.402	ug/l #	28
31) Cyclohexane	7.62	56	4444	1.215	ug/l #	11
36) 1,1-Dichloropropene	7.62	75	16327	4.322	ug/l #	48
37) Ethyl Acetate	6.80	43	3641	1.164	ug/l #	66
38) Carbon Tetrachloride	7.62	117	19657	5.520	ug/l #	15
43) Isopropyl Acetate	8.13	43	38775	7.605	ug/l	98
45) 1,2-Dichloropropane	9.24	63	757	0.267	ug/l #	43
48) Methyl methacrylate	9.15	41	2051	0.897	ug/l #	6
51) 4-Methyl-2-Pentanone	9.95	43	3903	1.310	ug/l	92
54) cis-1,3-Dichloropropene	9.88	75	18971	4.165	ug/l #	69
56) Ethyl methacrylate	10.51	69	1026	0.278	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	2781	0.585	ug/l #	42
59) 2-Hexanone	10.74	43	34068	15.837	ug/l #	52
74) N-amyl acetate	12.01	43	1332	3.686	ug/l #	38
76) 1,2,3-Trichloropropane	12.38	75	80705	26.919	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	80705	78.613	ug/l #	13

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

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Quant Title : SW846 8260
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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: VN062222.D

Acq: 30 Jun 2020 6:12

Instrument :

MSVOA_N

ClientSampleId :

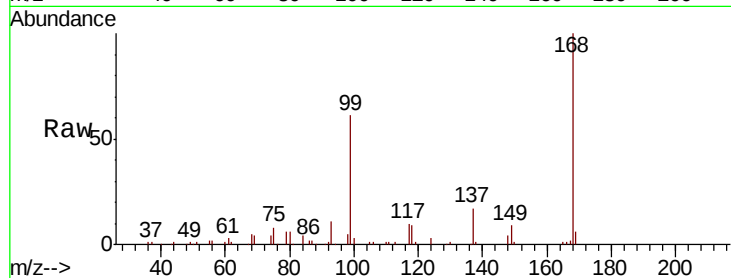
BU-03-062620

Tot Ion:168 Resp: 188693

Ion Ratio Lower Upper

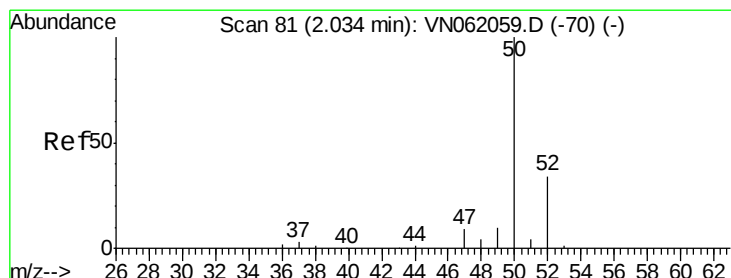
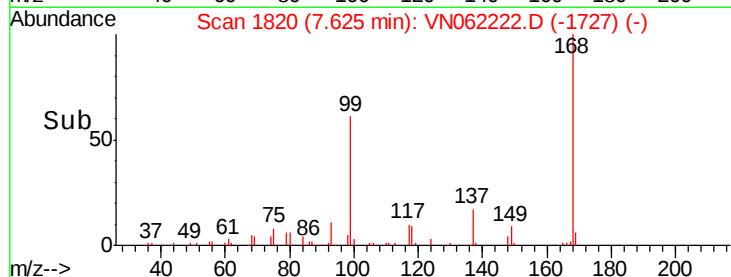
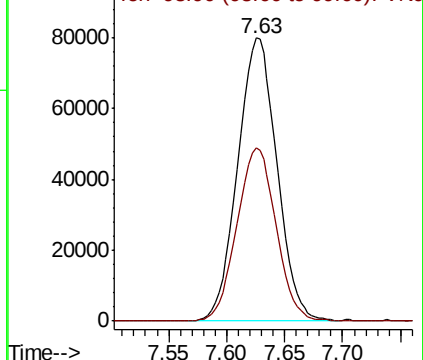
168 100

99 61.0 45.8 68.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN062222.D

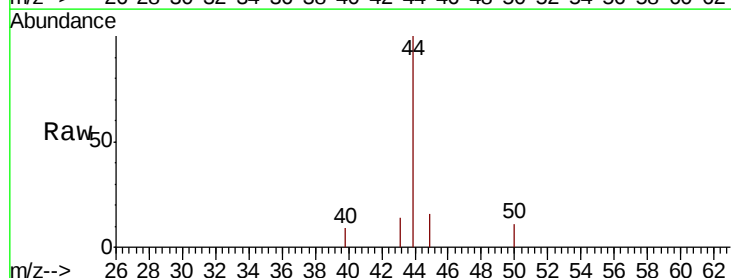
Acq: 30 Jun 2020 6:12

Tgt Ion: 50 Resp: 269

Ion Ratio Lower Upper

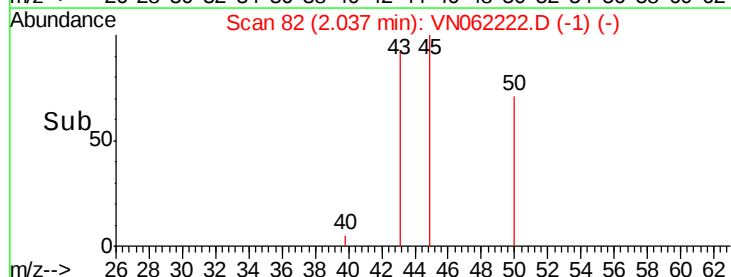
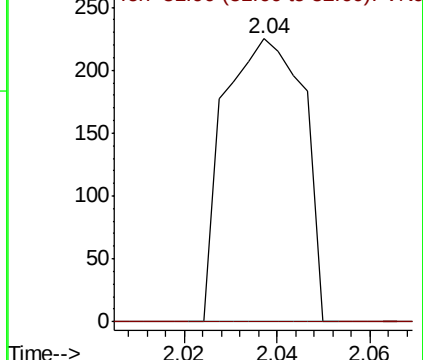
50 100

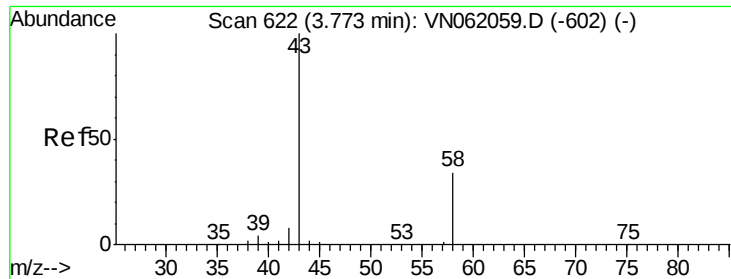
52 0.0 27.0 40.6#



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN





#16

Acetone

Concen: 20.688 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.01 min

Lab File: VN062222.D

Acq: 30 Jun 2020 6:12

Instrument :

MSVOA_N

ClientSampleId :

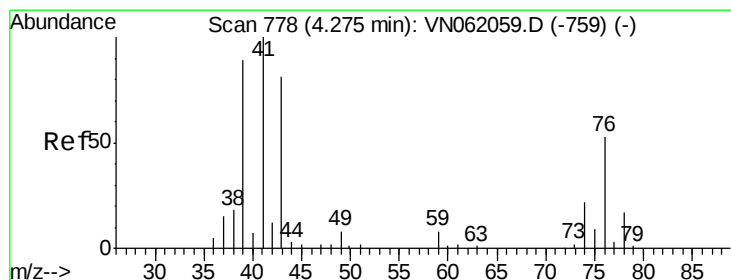
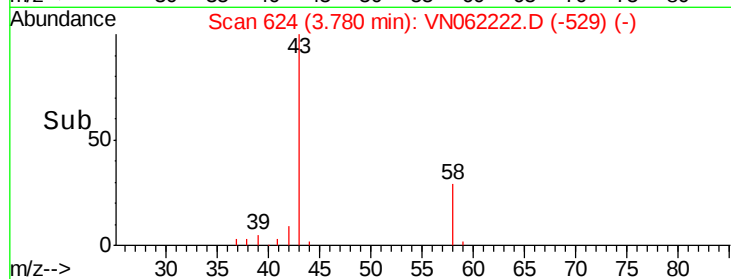
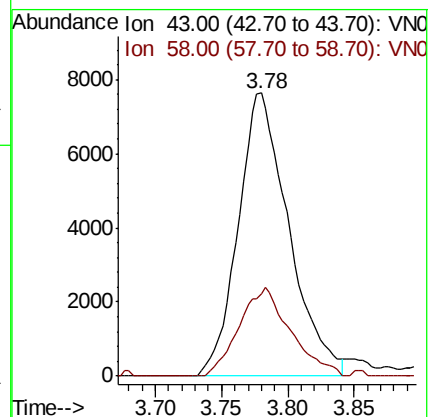
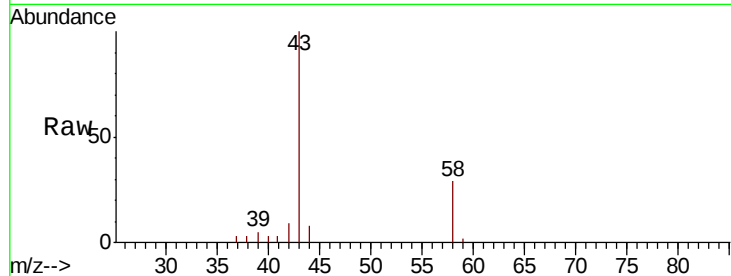
BU-03-062620

Tot Ion: 43 Resp: 20284

Ion Ratio Lower Upper

43 100

58 29.0 27.5 41.3



#18

Methyl Acetate

Concen: 2.123 ug/l

RT: 4.29 min Scan# 782

Delta R.T. 0.01 min

Lab File: VN062222.D

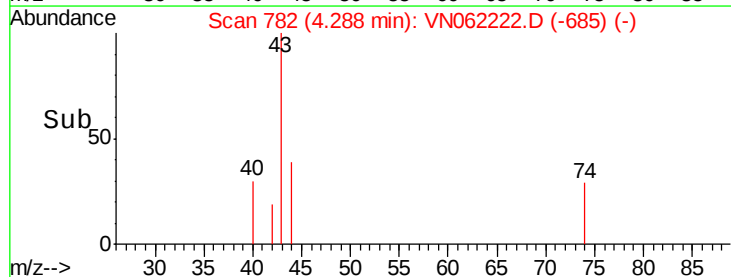
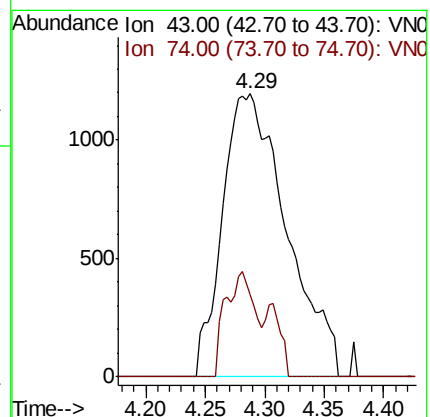
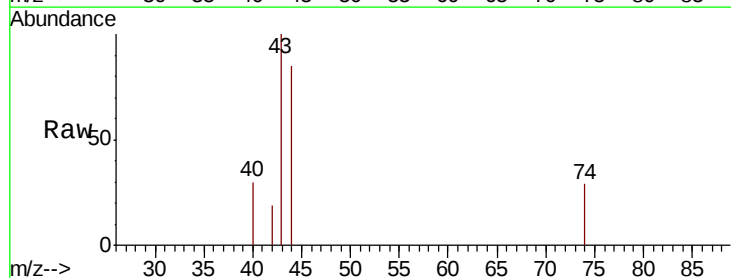
Acq: 30 Jun 2020 6:12

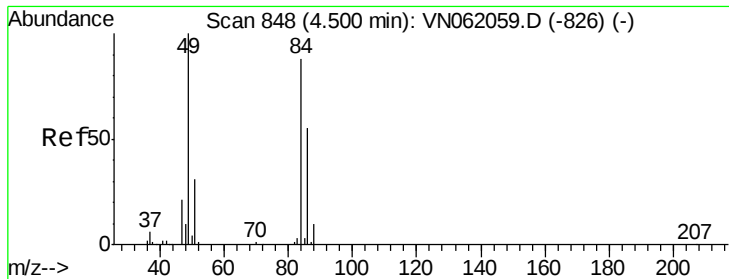
Tgt Ion: 43 Resp: 4469

Ion Ratio Lower Upper

43 100

74 16.9 22.9 34.3#

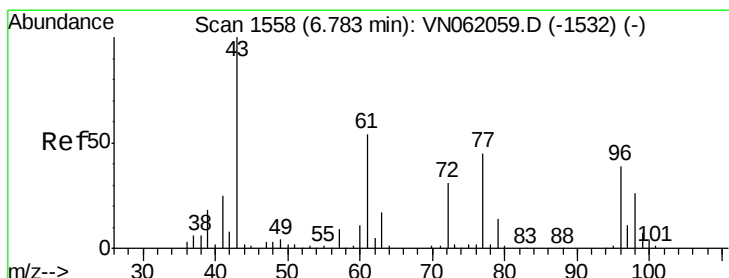
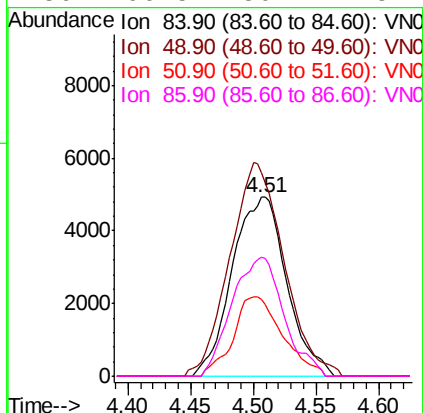
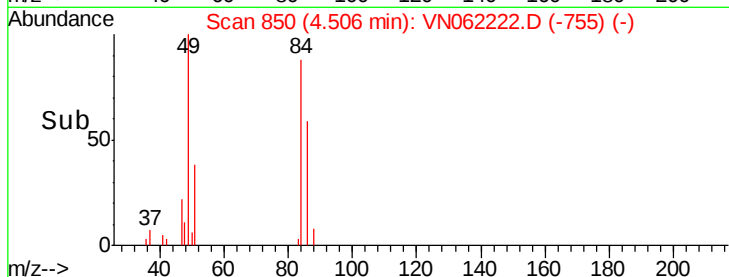
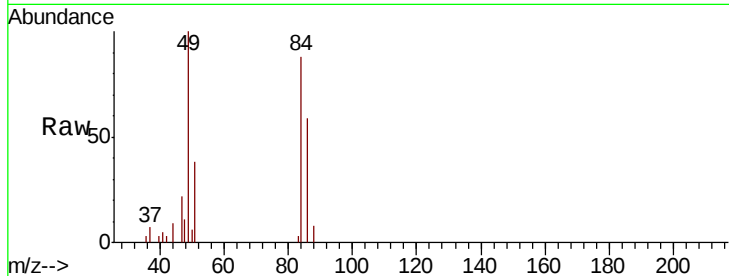




#20
Methvlene Chloride
Concen: 5.950 ug/l
RT: 4.51 min Scan# 850
Delta R.T. 0.01 min
Lab File: VN062222.D
Acq: 30 Jun 2020 6:12

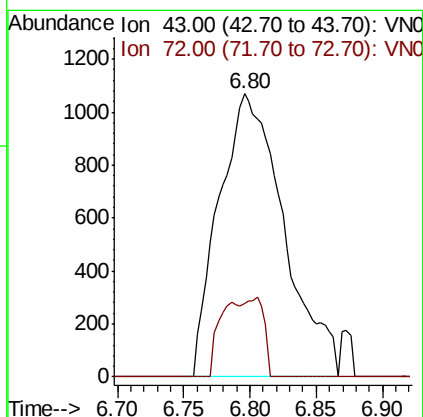
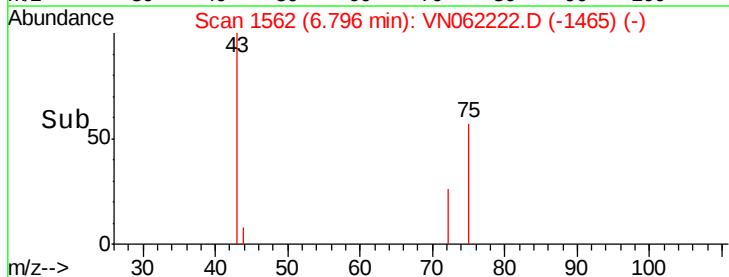
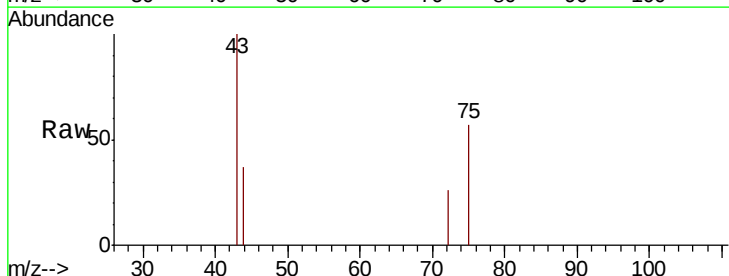
Instrument :
MSVOA_N
ClientSampled :
BU-03-062620

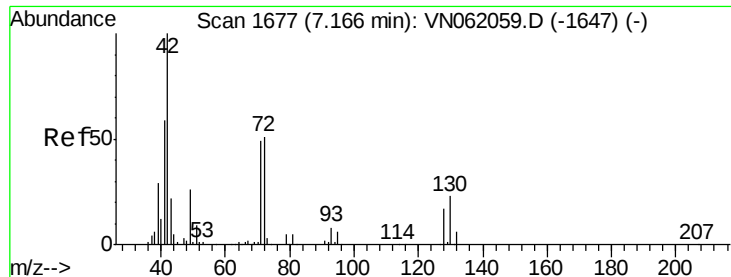
Tot Ion: 84 Resp: 14928
Ion Ratio Lower Upper
84 100
49 110.2 90.6 136.0
51 43.2 27.8 41.8#
86 66.5 50.1 75.1



#25
2-Butanone
Concen: 2.813 ug/l
RT: 6.80 min Scan# 1562
Delta R.T. 0.01 min
Lab File: VN062222.D
Acq: 30 Jun 2020 6:12

Tgt Ion: 43 Resp: 3641
Ion Ratio Lower Upper
43 100
72 26.1 24.8 37.2





#29

Tetrahydrofuran

Concen: 0.402 ug/l

RT: 7.17 min Scan# 1677

Delta R.T. -0.00 min

Lab File: VN062222.D

Acq: 30 Jun 2020 6:12

Instrument :

MSVOA_N

ClientSampleId :

BU-03-062620

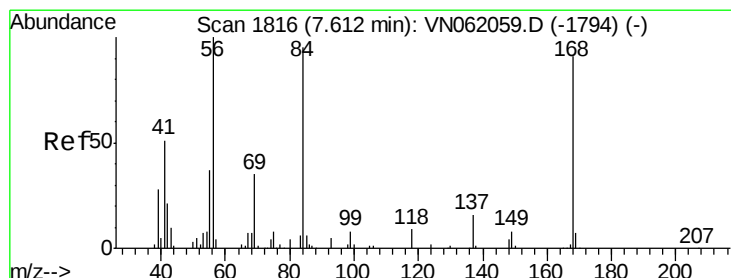
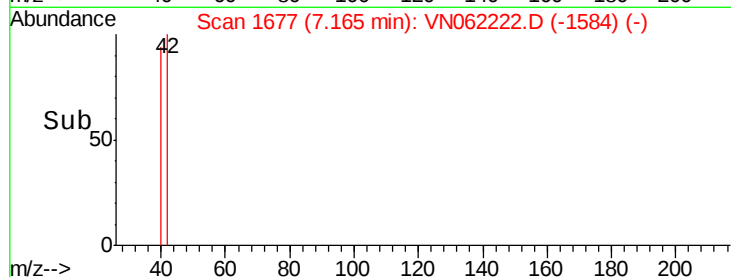
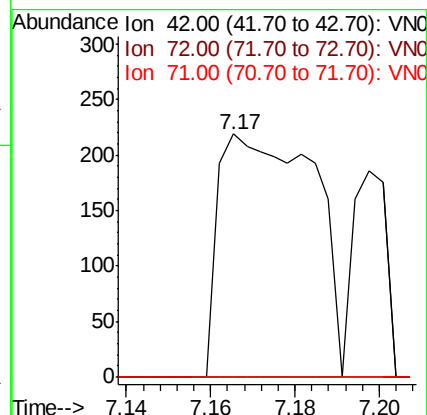
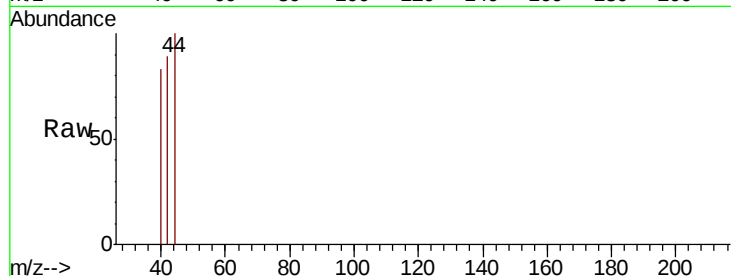
Tot Ion: 42 Resp: 341

Ion Ratio Lower Upper

42 100

72 0.0 41.1 61.7#

71 0.0 38.2 57.4#



#31

Cyclohexane

Concen: 1.215 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. 0.01 min

Lab File: VN062222.D

Acq: 30 Jun 2020 6:12

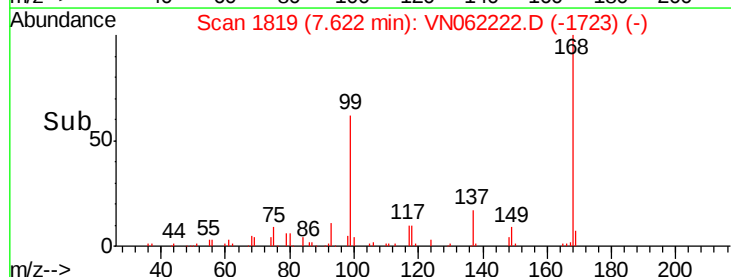
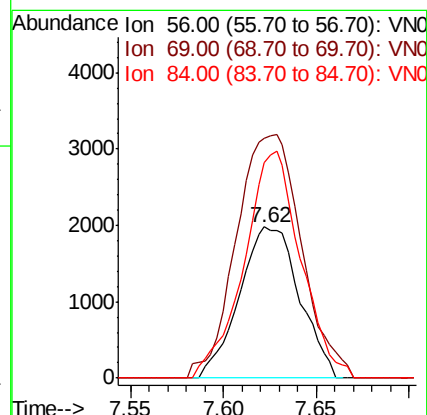
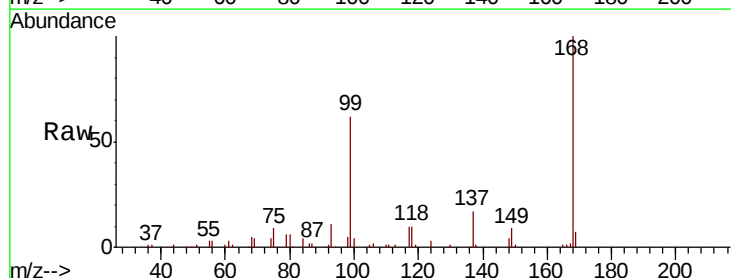
Tgt Ion: 56 Resp: 4444

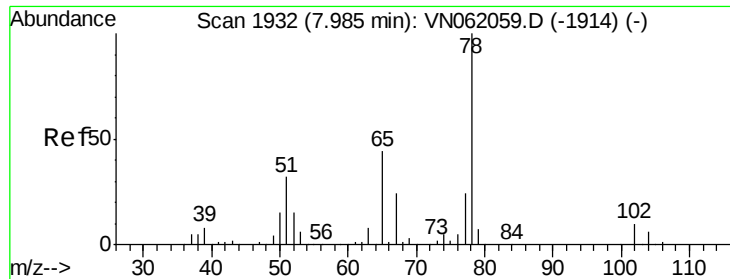
Ion Ratio Lower Upper

56 100

69 149.5 28.0 42.0#

84 142.6 76.1 114.1#

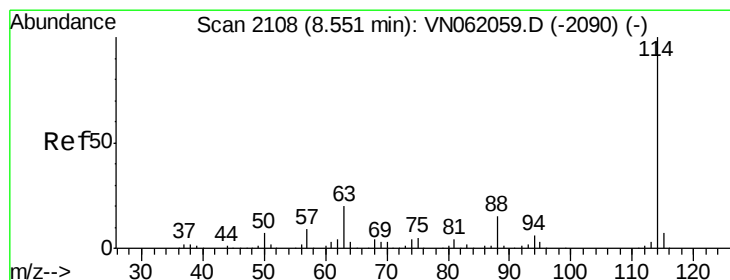
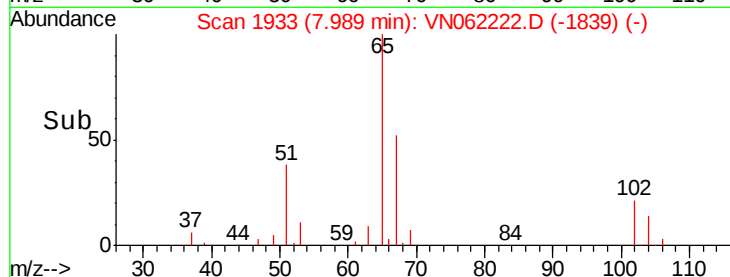
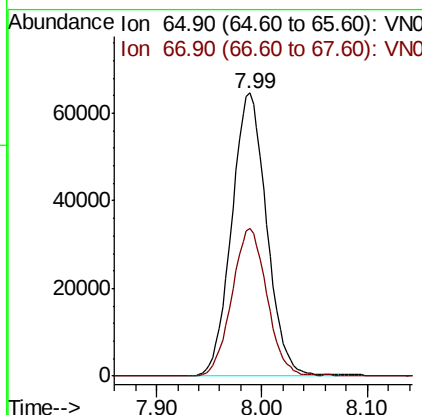
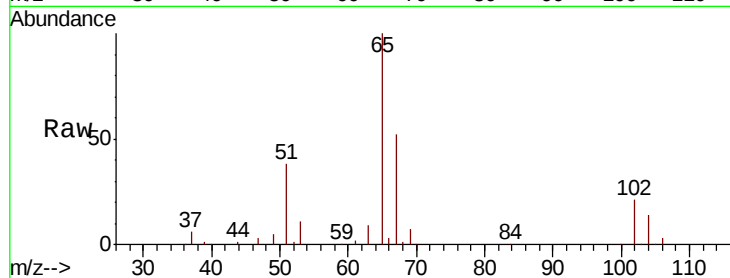




#33
 1,2-Dichloroethane-d4
 Concen: 56.129 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. 0.00 min
 Lab File: VN062222.D
 Acq: 30 Jun 2020 6:12

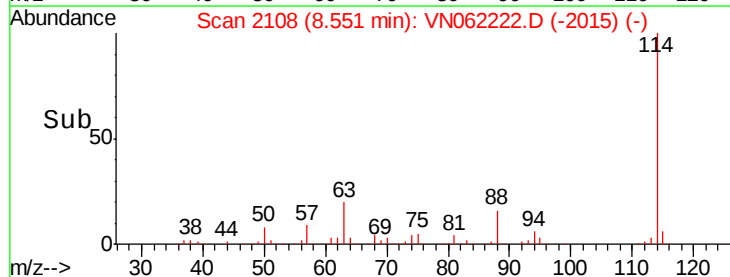
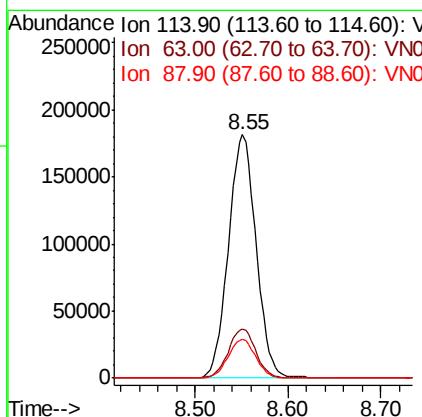
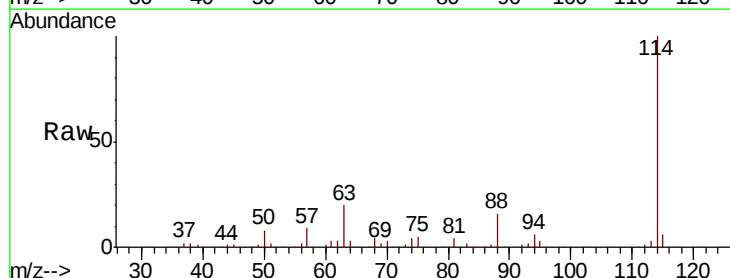
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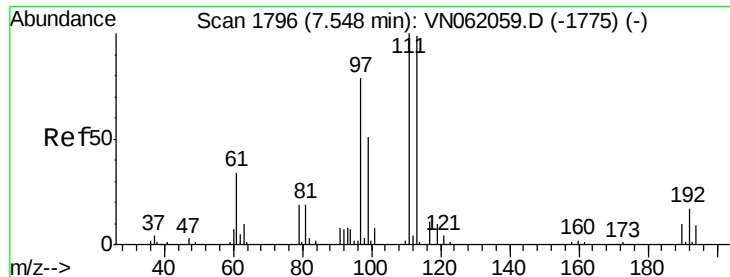
Tot Ion: 65 Resp: 148629
 Ion Ratio Lower Upper
 65 100
 67 52.3 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN062222.D
 Acq: 30 Jun 2020 6:12

Tgt Ion: 114 Resp: 375800
 Ion Ratio Lower Upper
 114 100
 63 20.4 0.0 39.2
 88 15.9 0.0 30.8

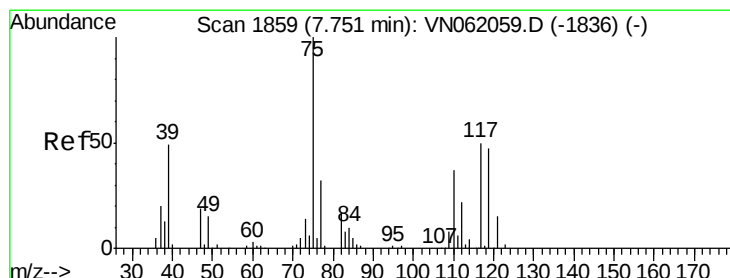
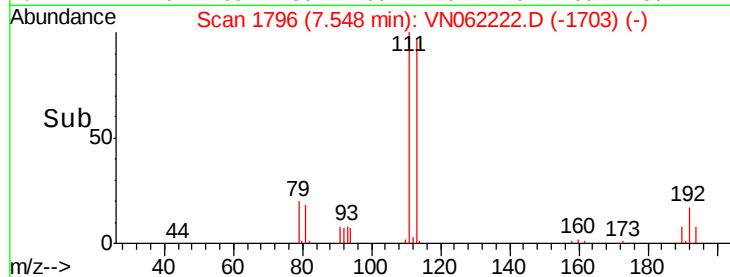
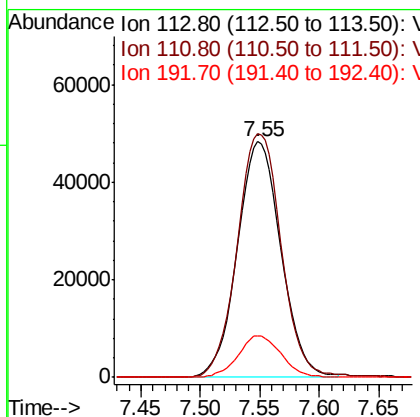
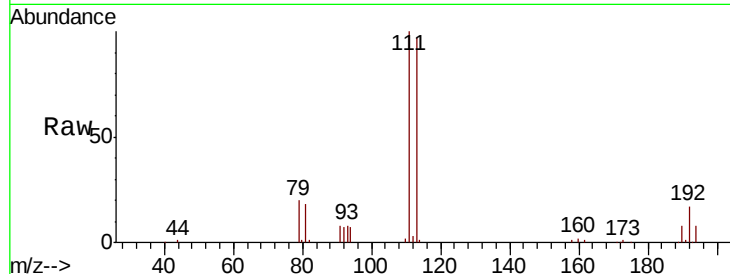




#35
 Dibromofluoromethane
 Concen: 50.716 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. -0.00 min
 Lab File: VN062222.D
 Acq: 30 Jun 2020 6:12

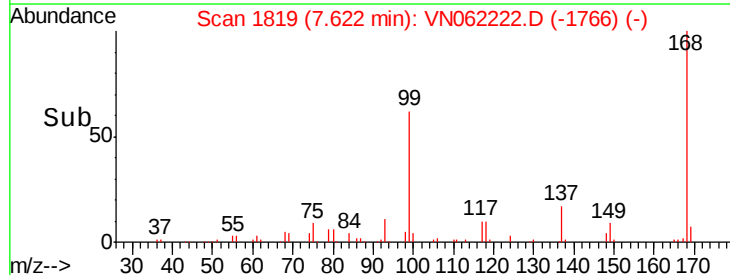
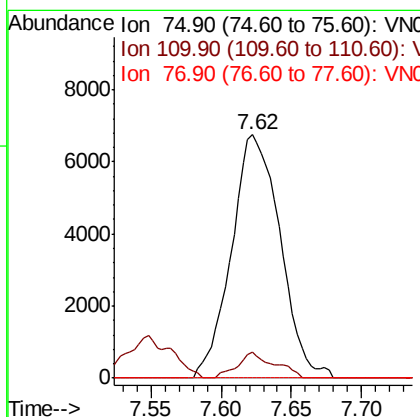
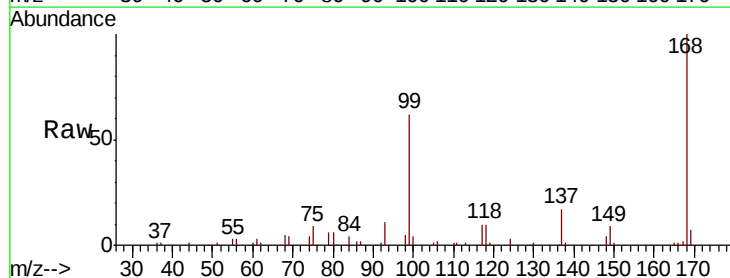
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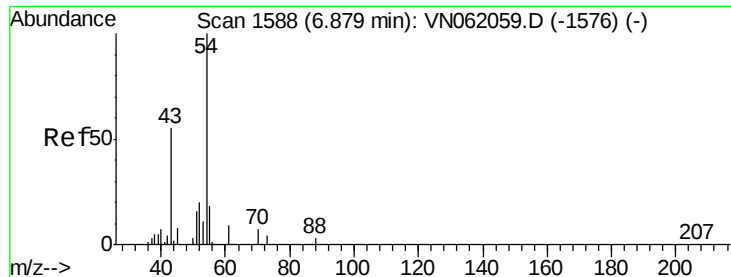
Tot Ion	Ratio	Lower	Upper
113	100		
111	104.7	82.2	123.4
192	17.3	14.0	21.0



#36
 1,1-Dichloropropene
 Concen: 4.322 ug/l
 RT: 7.62 min Scan# 1819
 Delta R.T. -0.13 min
 Lab File: VN062222.D
 Acq: 30 Jun 2020 6:12

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.0	17.9	53.8#
77	0.0	24.9	37.3#

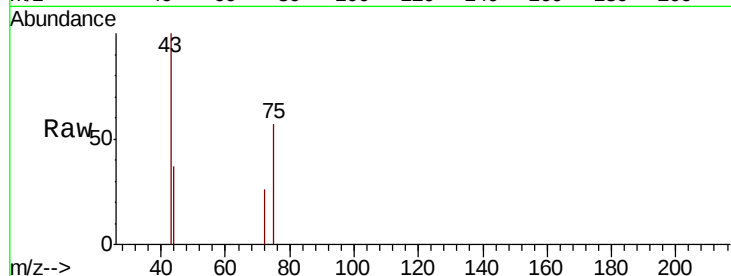




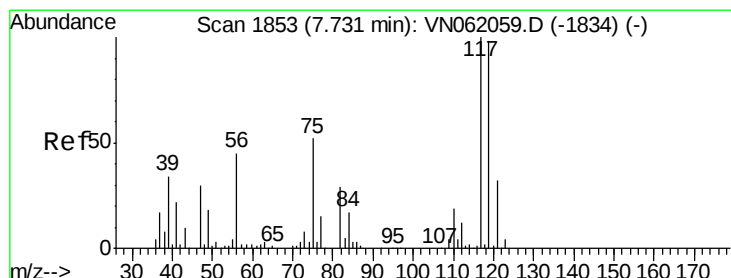
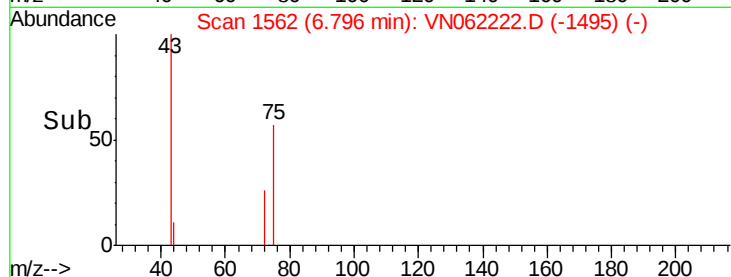
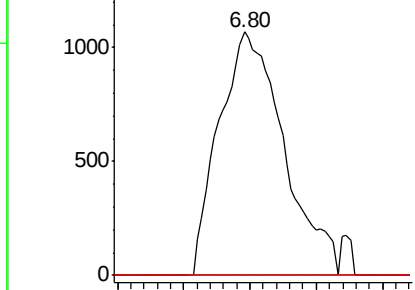
#37
Ethyl Acetate
Concen: 1.164 ug/l
RT: 6.80 min Scan# 1562
Delta R.T. -0.08 min
Lab File: VN062222.D
Acq: 30 Jun 2020 6:12

Instrument :
MSVOA_N
ClientSampled :
BU-03-062620

Tot Ion: 43 Resp: 3641
Ion Ratio Lower Upper
43 100
61 0.0 12.0 18.0#
70 0.0 9.6 14.4#

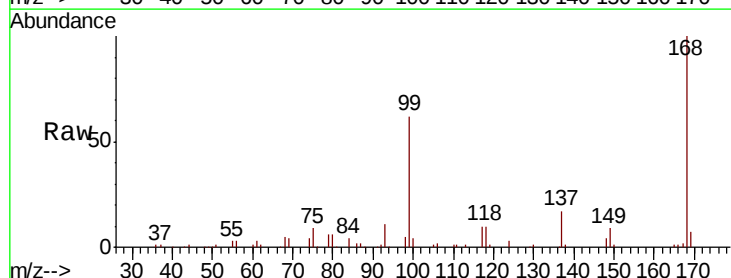


Abundance Ion 43.00 (42.70 to 43.70): VN062059.D (-1576) (-)
Ion 60.90 (60.60 to 61.60): VN062059.D (-1576) (-)
Ion 70.00 (69.70 to 70.70): VN062059.D (-1576) (-)

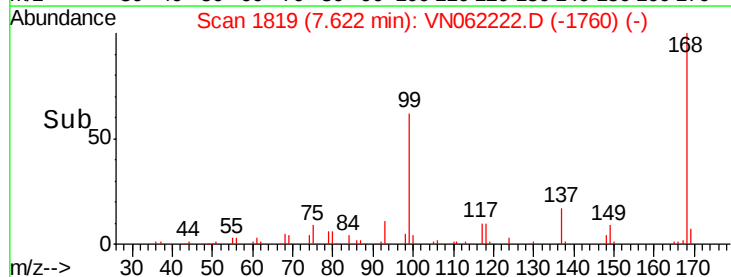
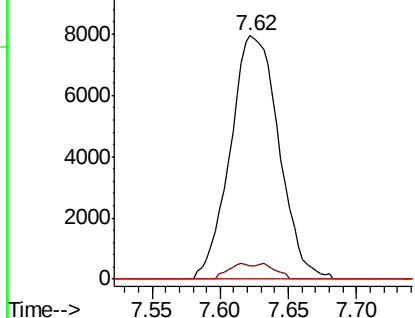


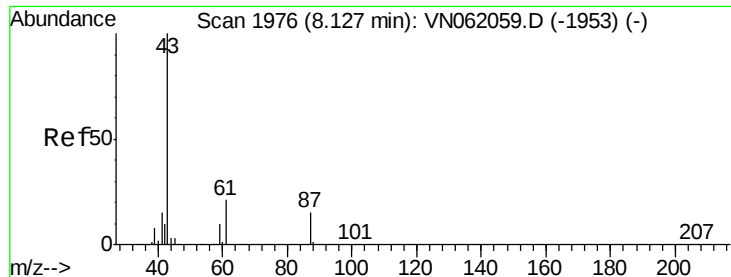
#38
Carbon Tetrachloride
Concen: 5.520 ug/l
RT: 7.62 min Scan# 1819
Delta R.T. -0.11 min
Lab File: VN062222.D
Acq: 30 Jun 2020 6:12

Tgt Ion: 117 Resp: 19657
Ion Ratio Lower Upper
117 100
119 5.3 78.2 117.2#
121 0.0 25.8 38.6#



Abundance Ion 116.80 (116.50 to 117.50): VN062059.D (-1834) (-)
Ion 118.80 (118.50 to 119.50): VN062059.D (-1834) (-)
Ion 120.80 (120.50 to 121.50): VN062059.D (-1834) (-)





#43

Isopropyl Acetate

Concen: 7.605 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. -0.00 min

Lab File: VN062222.D

Acq: 30 Jun 2020 6:12

Instrument :

MSVOA_N

ClientSampleId :

BU-03-062620

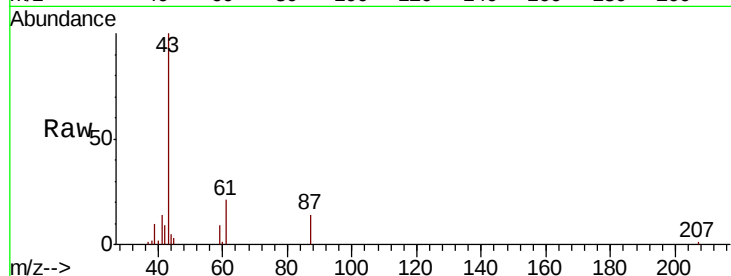
Tot Ion: 43 Resp: 38775

Ion Ratio Lower Upper

43 100

61 21.7 17.2 25.8

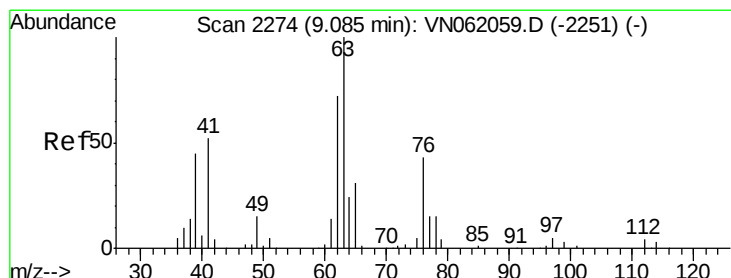
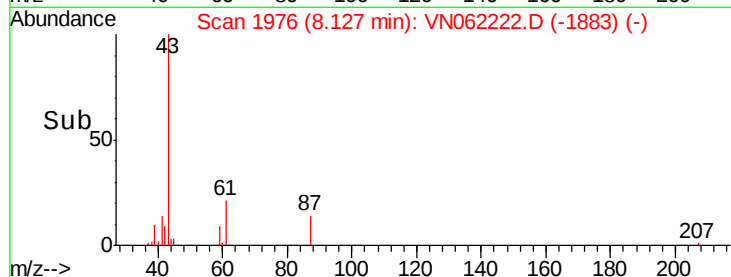
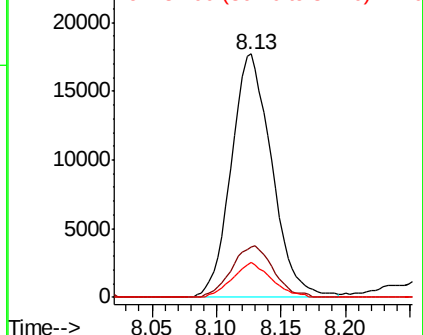
87 13.6 12.1 18.1



Abundance Ion 43.00 (42.70 to 43.70): VN062059.D (-1953) (-)

Ion 61.00 (60.70 to 61.70): VN062059.D (-1953) (-)

Ion 87.00 (86.70 to 87.70): VN062059.D (-1953) (-)



#45

1,2-Dichloropropane

Concen: 0.267 ug/l

RT: 9.24 min Scan# 2321

Delta R.T. 0.15 min

Lab File: VN062222.D

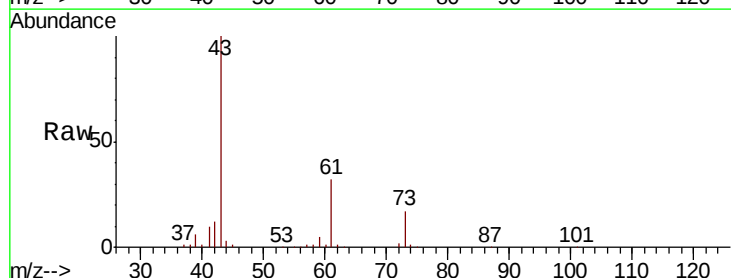
Acq: 30 Jun 2020 6:12

Tgt Ion: 63 Resp: 757

Ion Ratio Lower Upper

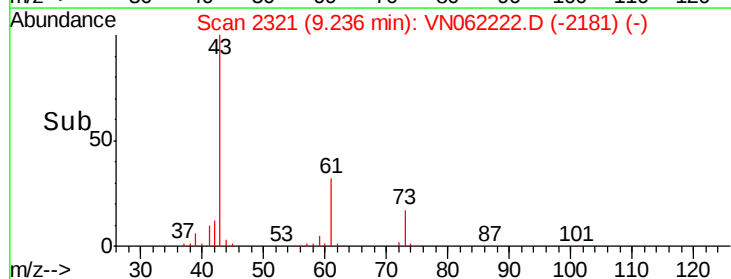
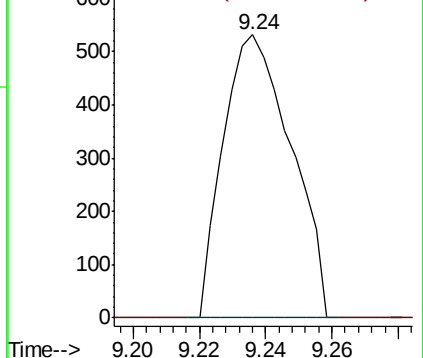
63 100

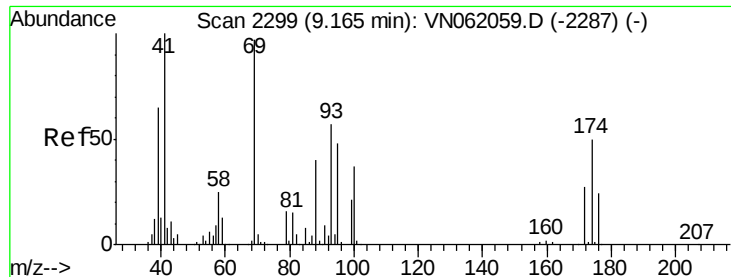
65 0.0 25.0 37.4#



Abundance Ion 62.90 (62.60 to 63.60): VN062059.D (-2251) (-)

Ion 64.90 (64.60 to 65.60): VN062059.D (-2251) (-)

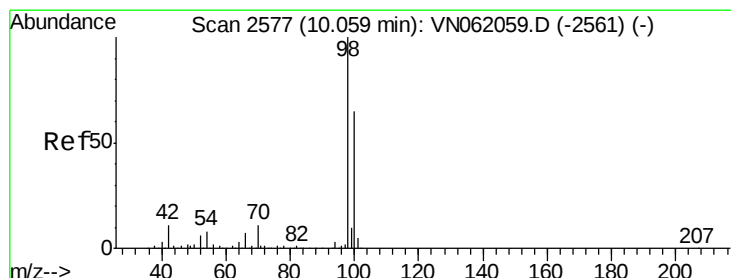
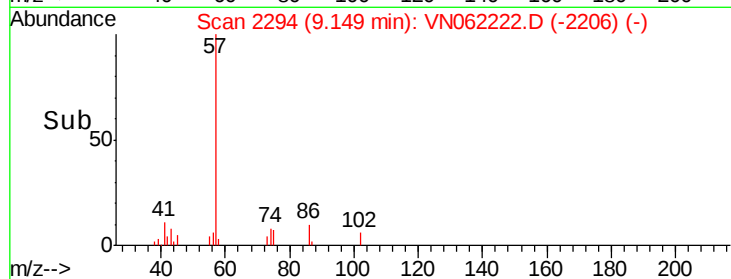
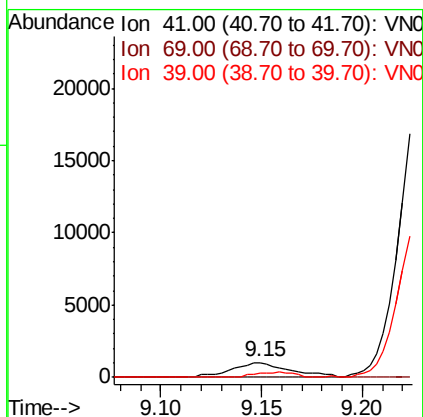
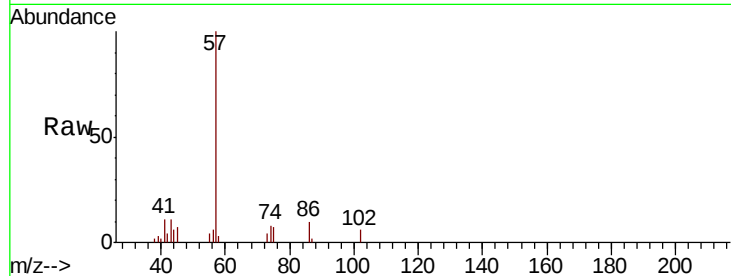




#48
Methvl methacrylate
Concen: 0.897 ug/l
RT: 9.15 min Scan# 2294
Delta R.T. -0.02 min
Lab File: VN062222.D
Acq: 30 Jun 2020 6:12

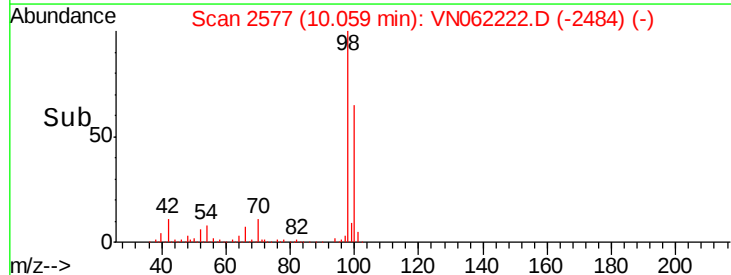
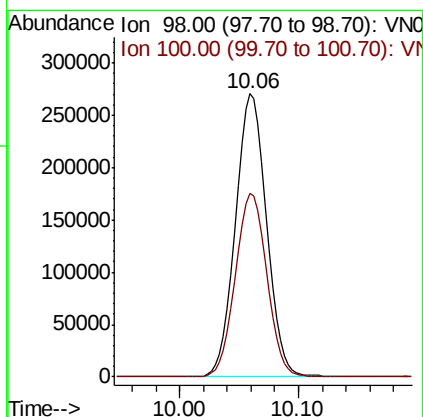
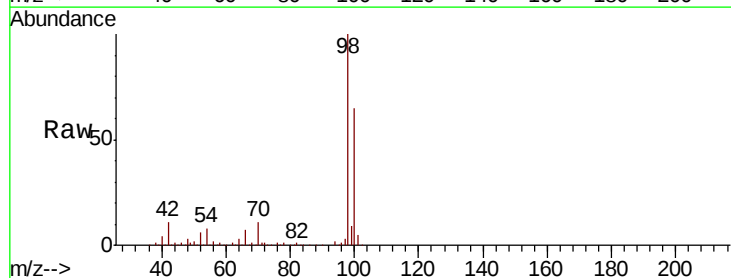
Instrument :
MSVOA_N
ClientSampleId :
BU-03-062620

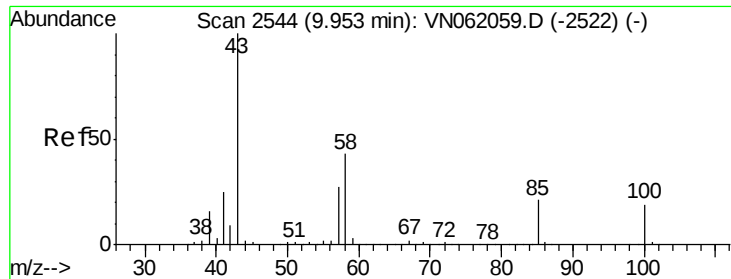
Tot Ion: 41 Resp: 2051
Ion Ratio Lower Upper
41 100
69 0.0 80.7 121.1#
39 0.0 54.5 81.7#



#50
Toluene-d8
Concen: 50.952 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. -0.00 min
Lab File: VN062222.D
Acq: 30 Jun 2020 6:12

Tgt Ion: 98 Resp: 491044
Ion Ratio Lower Upper
98 100
100 65.7 51.2 76.8

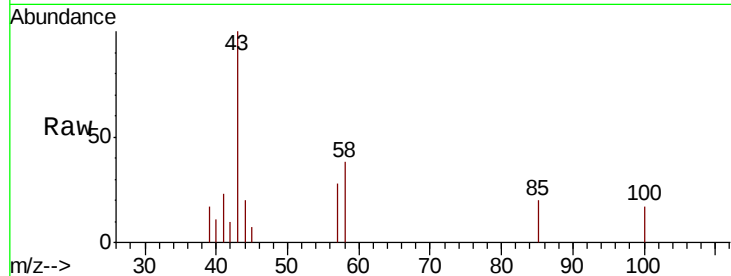




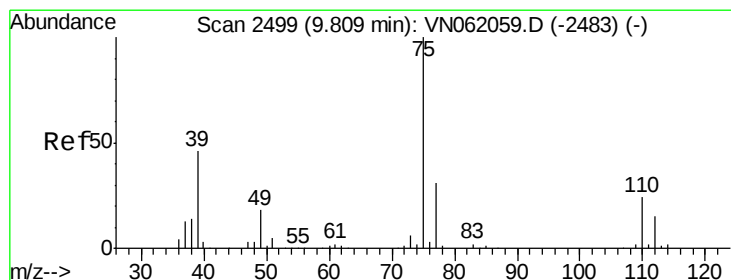
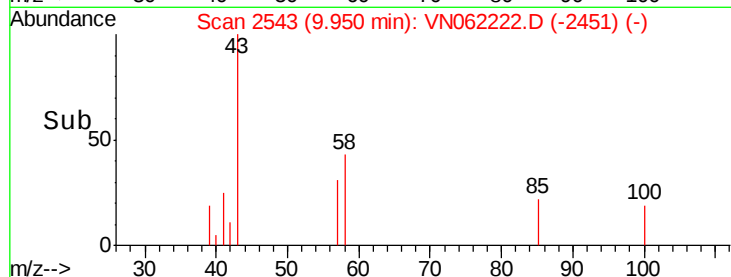
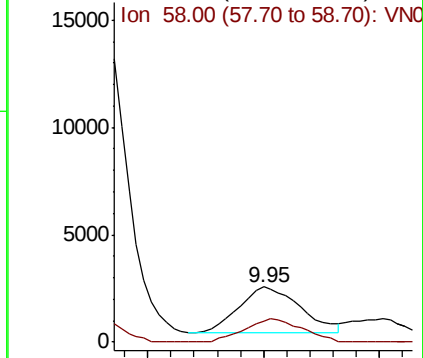
#51
4-Methyl-2-Pentanone
Concen: 1.310 ug/l
RT: 9.95 min Scan# 2543
Delta R.T. -0.00 min
Lab File: VN062222.D
Acq: 30 Jun 2020 6:12

Instrument :
MSVOA_N
ClientSampled :
BU-03-062620

Tot Ion: 43 Resp: 3903
Ion Ratio Lower Upper
43 100
58 48.1 34.2 51.2

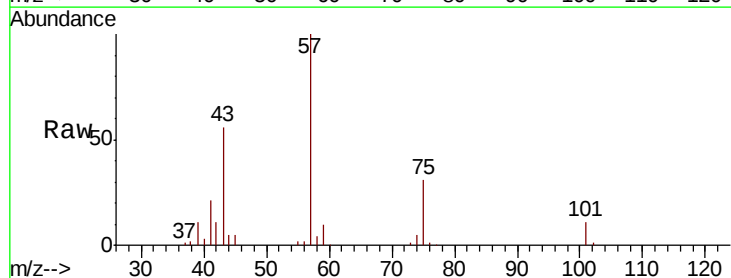


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

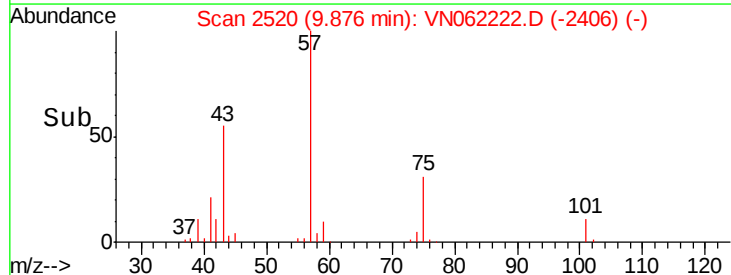
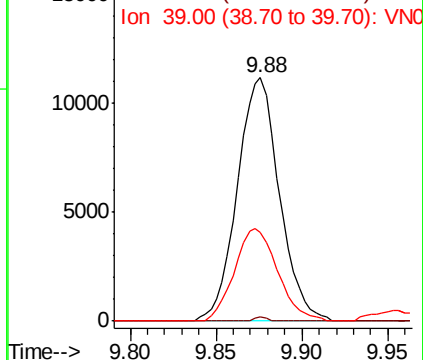


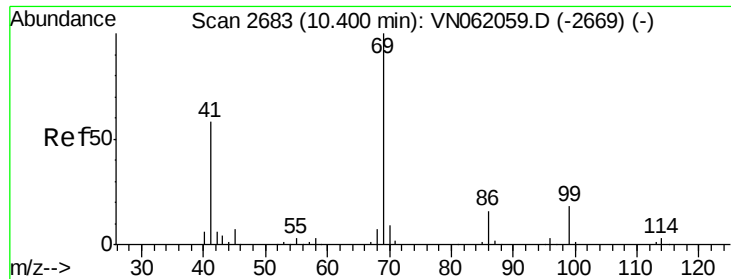
#54
cis-1,3-Dichloropropene
Concen: 4.165 ug/l
RT: 9.88 min Scan# 2520
Delta R.T. 0.07 min
Lab File: VN062222.D
Acq: 30 Jun 2020 6:12

Tgt Ion: 75 Resp: 18971
Ion Ratio Lower Upper
75 100
77 1.5 25.0 37.6#
39 36.4 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: 0.278 ug/l

RT: 10.51 min Scan# 2717

Delta R.T. 0.11 min

Lab File: VN062222.D

Acq: 30 Jun 2020 6:12

Instrument :

MSVOA_N

ClientSampled :

BU-03-062620

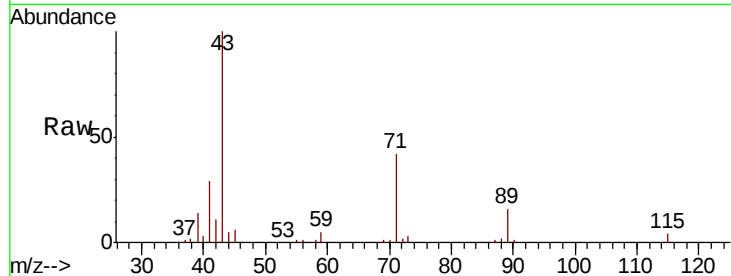
Tot Ion: 69 Resp: 1026

Ion Ratio Lower Upper

69 100

41 3738.6 46.6 70.0#

39 1821.0 31.0 46.4#

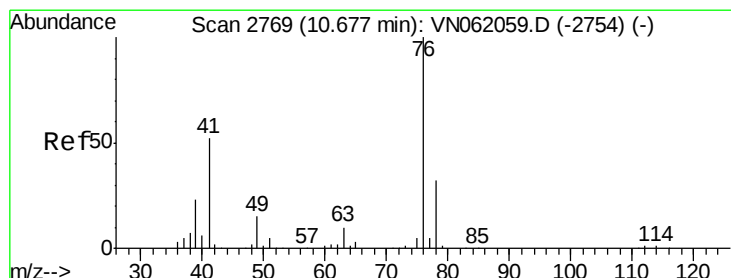
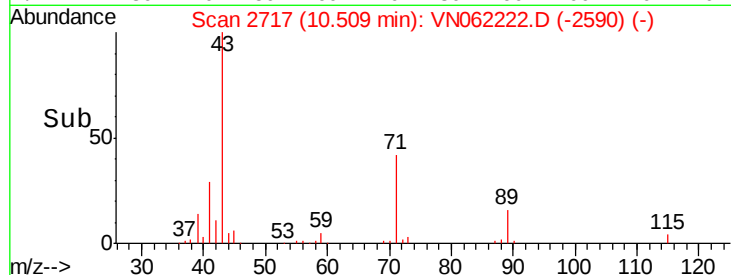
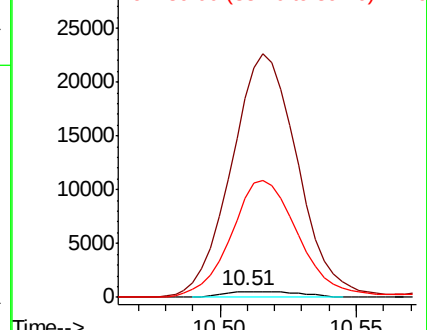


Abundance

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: 0.585 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.06 min

Lab File: VN062222.D

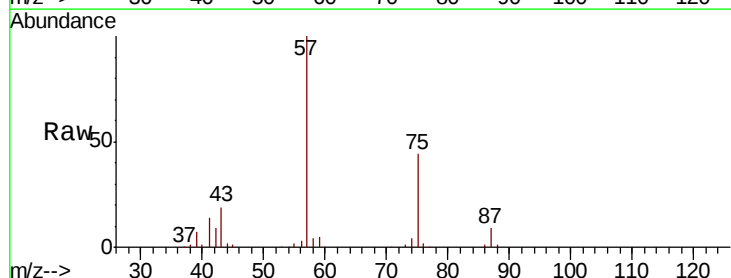
Acq: 30 Jun 2020 6:12

Tgt Ion: 76 Resp: 2781

Ion Ratio Lower Upper

76 100

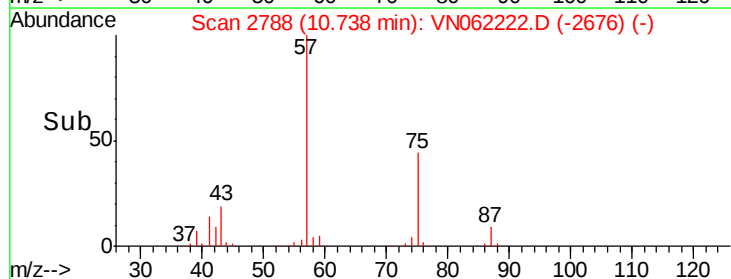
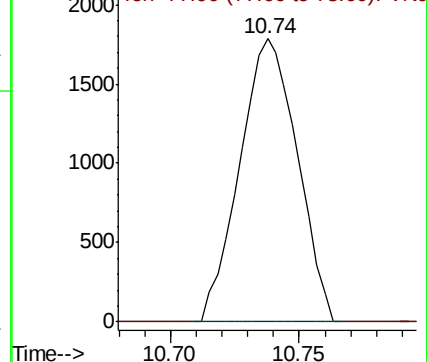
78 0.0 25.8 38.8#

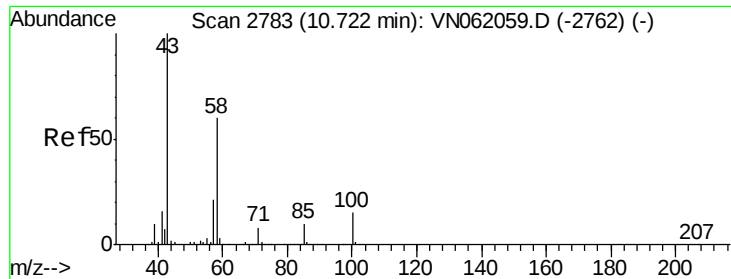


Abundance

Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

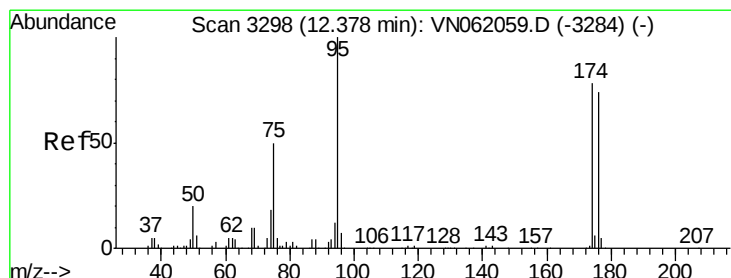
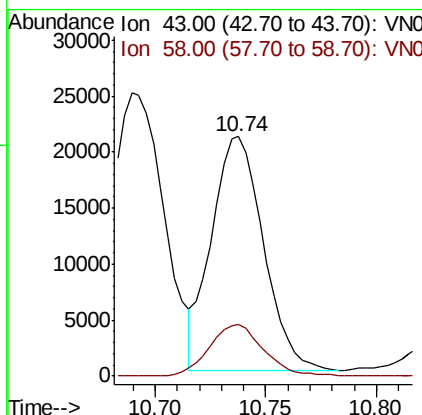
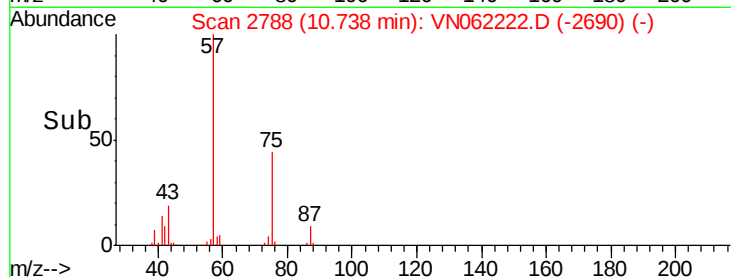
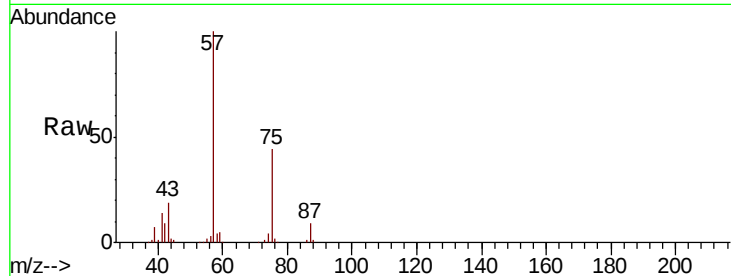




#59
2-Hexanone
Concen: 15.837 ug/l
RT: 10.74 min Scan# 2788
Delta R.T. 0.02 min
Lab File: VN062222.D
Acq: 30 Jun 2020 6:12

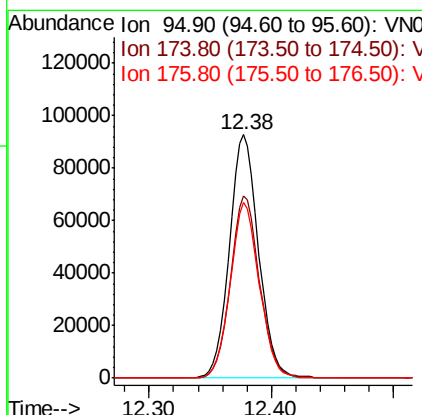
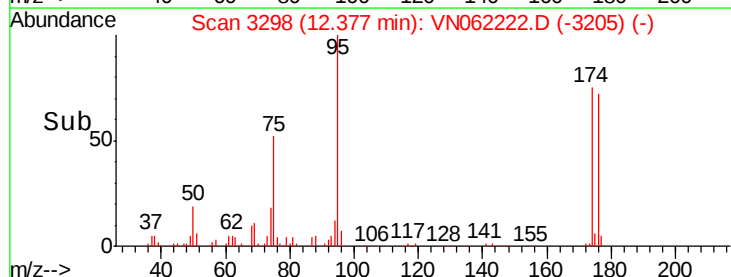
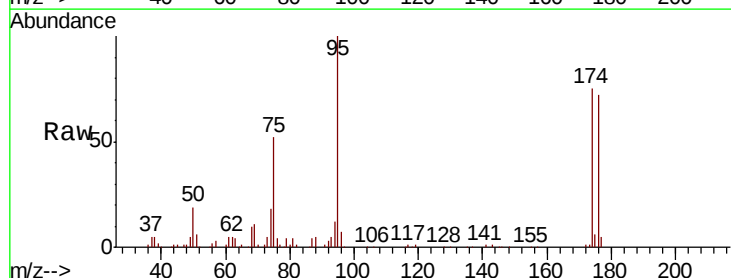
Instrument :
MSVOA_N
ClientSampled :
BU-03-062620

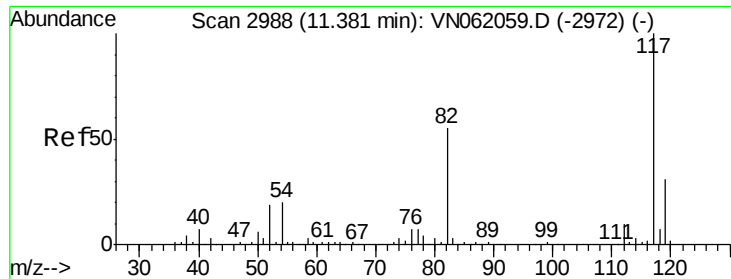
Tot Ion: 43 Resp: 34068
Ion Ratio Lower Upper
43 100
58 23.1 29.5 88.5#



#62
4-Bromofluorobenzene
Concen: 47.393 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.00 min
Lab File: VN062222.D
Acq: 30 Jun 2020 6:12

Tgt Ion: 95 Resp: 154315
Ion Ratio Lower Upper
95 100
174 75.3 0.0 154.8
176 71.9 0.0 147.4

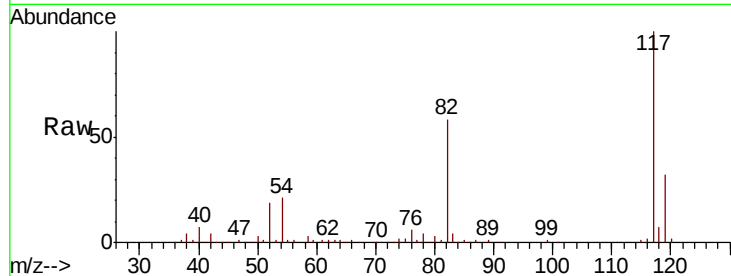




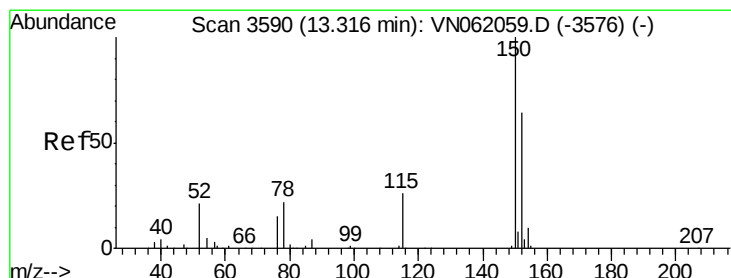
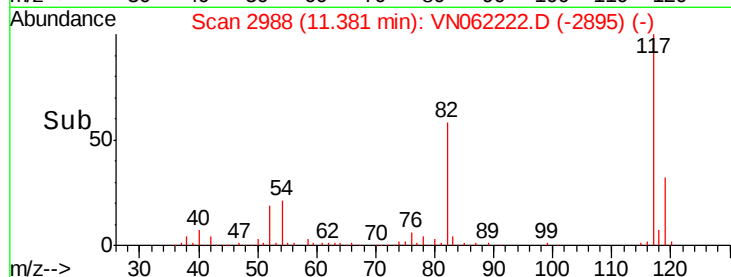
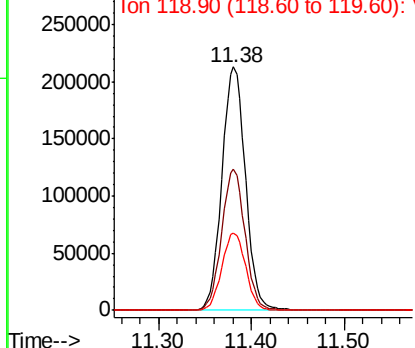
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN062222.D
Acq: 30 Jun 2020 6:12

Instrument :
MSVOA_N
ClientSampled :
BU-03-062620

Tot Ion:117 Resp: 374915
Ion Ratio Lower Upper
117 100
82 58.0 43.8 65.8
119 32.0 25.2 37.8

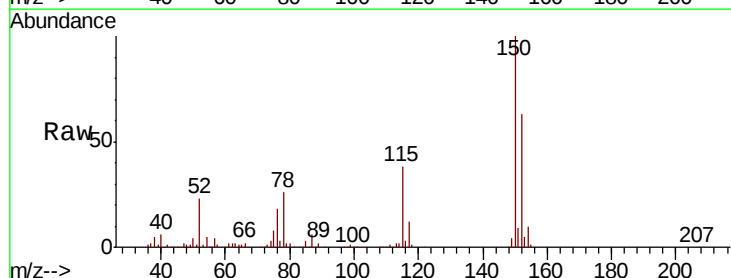


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

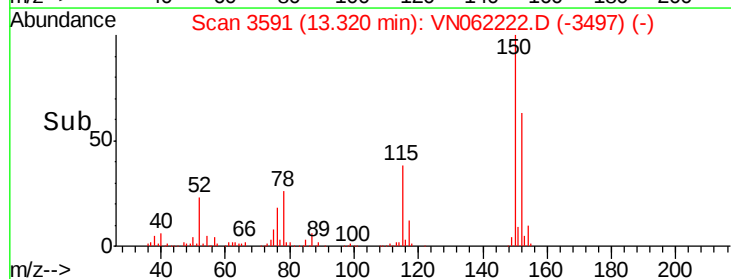
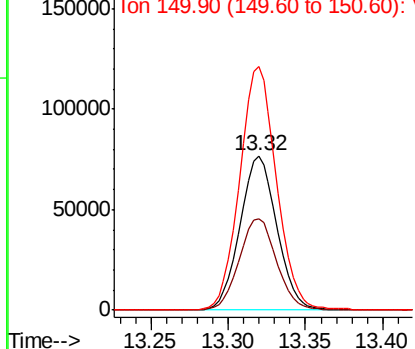


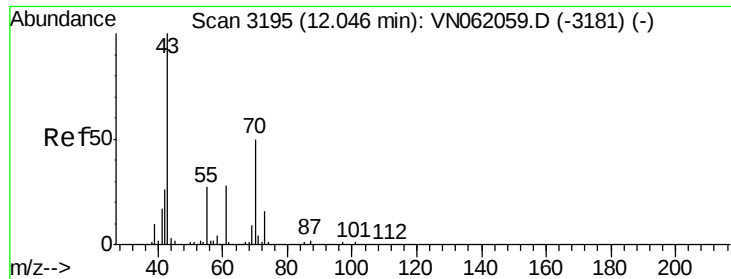
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3591
Delta R.T. 0.00 min
Lab File: VN062222.D
Acq: 30 Jun 2020 6:12

Tgt Ion:152 Resp: 127357
Ion Ratio Lower Upper
152 100
115 60.2 29.5 88.5
150 157.9 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-amvl acetate

Concen: 3.686 ug/l

RT: 12.01 min Scan# 3184

Delta R.T. -0.04 min

Lab File: VN062222.D

Acq: 30 Jun 2020 6:12

Instrument :

MSVOA_N

ClientSampled :

BU-03-062620

Tot Ion: 43 Resp: 1332

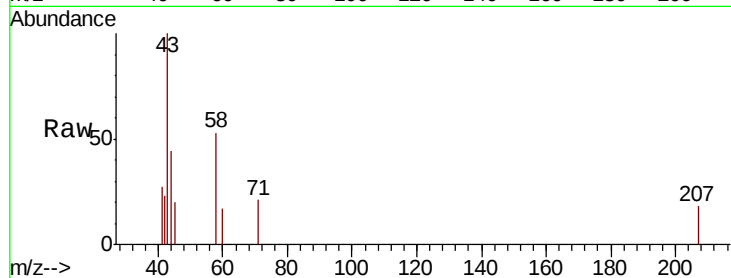
Ion Ratio Lower Upper

43 100

70 0.0 39.4 59.2#

55 0.0 21.7 32.5#

61 0.0 21.3 31.9#

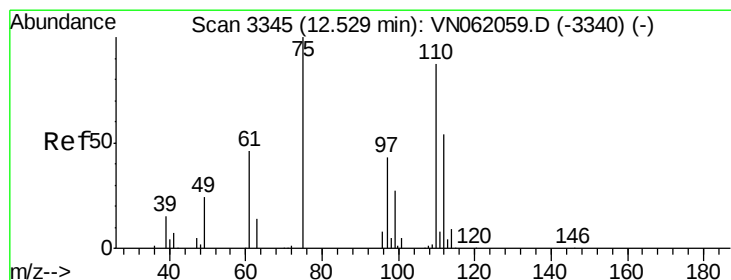
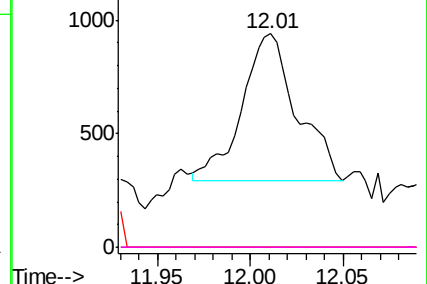
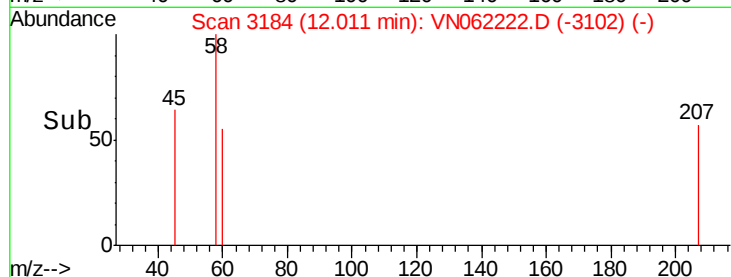


Abundance Ion 43.00 (42.70 to 43.70): VN062059.D (-3181) (-)

Ion 70.00 (69.70 to 70.70): VN062059.D (-3181) (-)

Ion 55.00 (54.70 to 55.70): VN062059.D (-3181) (-)

Ion 61.00 (60.70 to 61.70): VN062059.D (-3181) (-)



#76

1,2,3-Trichloropropane

Concen: 26.919 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062222.D

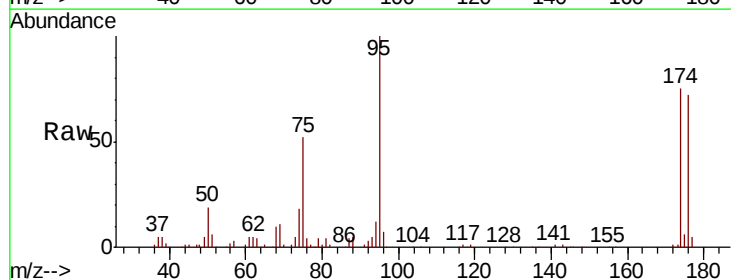
Acq: 30 Jun 2020 6:12

Tgt Ion: 75 Resp: 80705

Ion Ratio Lower Upper

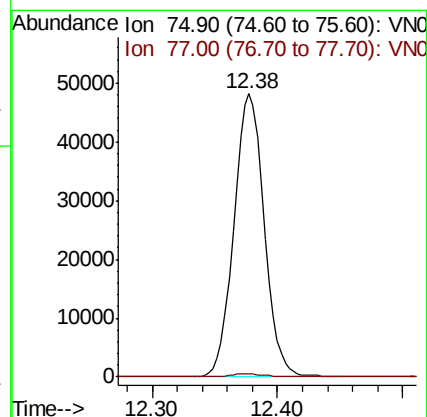
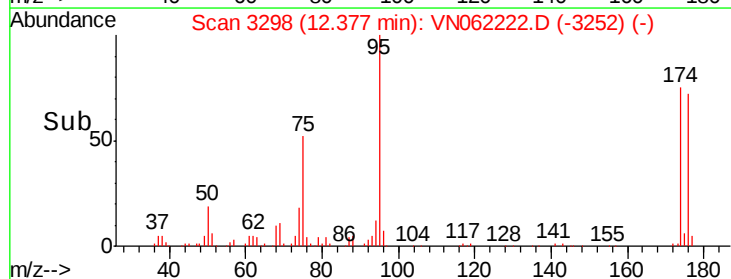
75 100

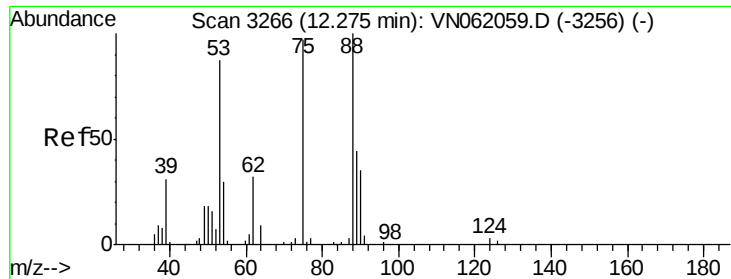
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN062059.D (-3340) (-)

Ion 77.00 (76.70 to 77.70): VN062059.D (-3340) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 78.613 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062222.D

Acq: 30 Jun 2020 6:12

Instrument :

MSVOA_N

ClientSampleId :

BU-03-062620

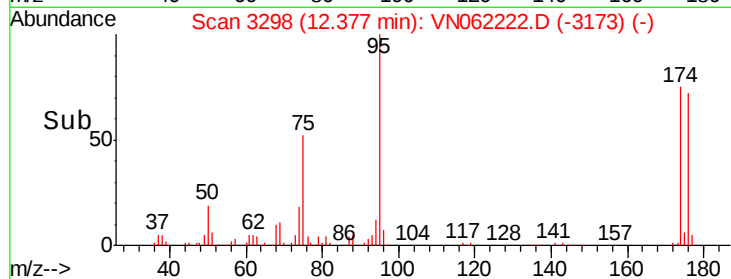
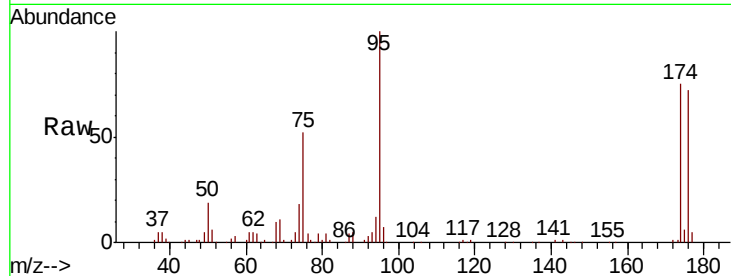
Tot Ion: 75 Resp: 80705

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

