

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN040620\
 Data File : VN060859.D
 Acq On : 6 Apr 2020 18:13
 Operator : JC/MD
 Sample : L2144-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BUS-WASH

Quant Time: Apr 07 07:06:47 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 18 08:49:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	202641	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	336885	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	320400	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	144740	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	130970	47.08	ug/l	0.00
Spiked Amount						
			Recovery	=	94.16%	
35) Dibromofluoromethane	7.56	113	99952	49.07	ug/l	0.00
Spiked Amount						
			Recovery	=	98.14%	
50) Toluene-d8	10.08	98	417996	50.24	ug/l	0.00
Spiked Amount						
			Recovery	=	100.48%	
62) 4-Bromofluorobenzene	12.40	95	156059	51.18	ug/l	0.00
Spiked Amount						
			Recovery	=	102.36%	

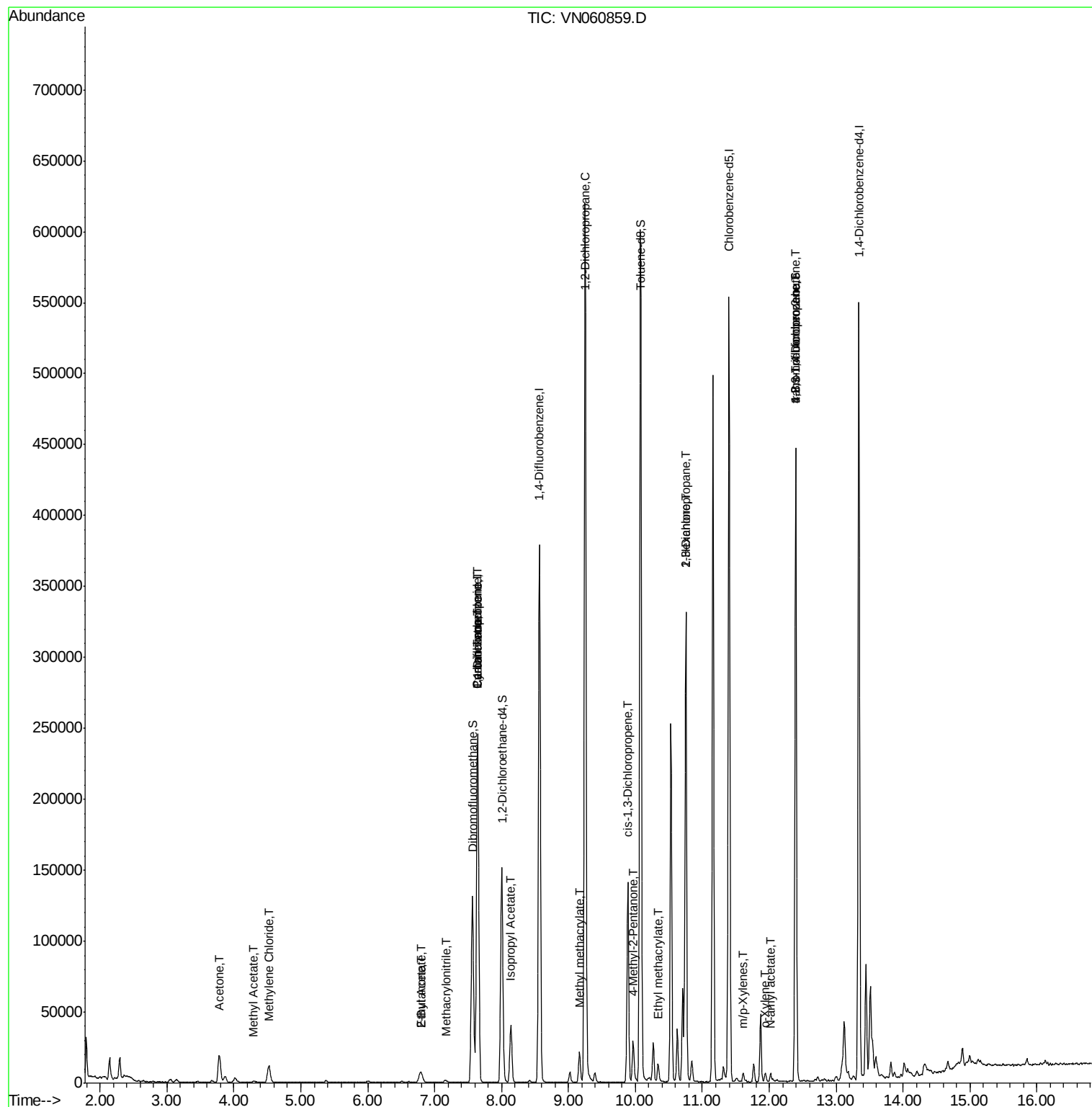
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	35181	35.703	ug/l	99
18) Methyl Acetate	4.29	43	1343	0.484	ug/l #	54
20) Methylene Chloride	4.53	84	9213	3.801	ug/l	97
25) 2-Butanone	6.80	43	13044	8.181	ug/l	97
31) Cyclohexane	7.64	56	4364	0.974	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	15776	4.836	ug/l #	49
37) Ethyl Acetate	6.80	43	13044	3.701	ug/l #	70
38) Carbon Tetrachloride	7.64	117	19359	6.621	ug/l #	16
41) Methacrylonitrile	7.18	41	513	0.341	ug/l #	100
43) Isopropyl Acetate	8.14	43	48670	8.373	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	661	0.254	ug/l #	43
48) Methyl methacrylate	9.16	41	3475	1.343	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	19818	5.991	ug/l	98
54) cis-1,3-Dichloropropene	9.89	75	23504	5.714	ug/l #	58
56) Ethyl methacrylate	10.34	69	2149	0.602	ug/l #	58
57) 1,3-Dichloropropane	10.75	76	3172	0.799	ug/l #	42
59) 2-Hexanone	10.75	43	48566	20.382	ug/l #	52
68) m/p-Xylenes	11.61	106	1952	0.445	ug/l	93
69) o-Xylene	11.94	106	1408	0.336	ug/l	85
74) N-amyl acetate	12.02	43	4616	0.920	ug/l #	48
76) 1,2,3-Trichloropropane	12.40	75	79204	25.360	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	79204	65.132	ug/l #	13

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060859.D

Acq: 6 Apr 2020 18:13

Instrument :

MSVOA_N

ClientSampleId :

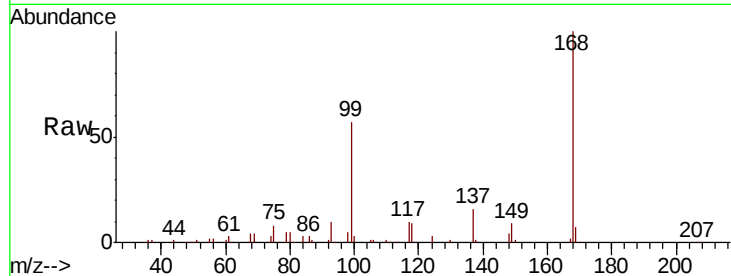
BUS-WASH

Tot Ion:168 Resp: 202641

Ion Ratio Lower Upper

168 100

99 57.2 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

80000

60000

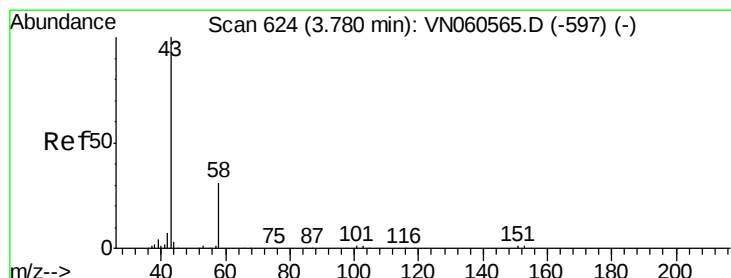
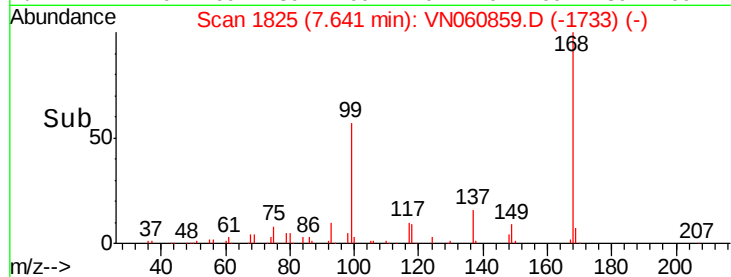
40000

20000

0

7.60 7.70

Time-->



#16

Acetone

Concen: 35.703 ug/l

RT: 3.78 min Scan# 624

Delta R.T. -0.00 min

Lab File: VN060859.D

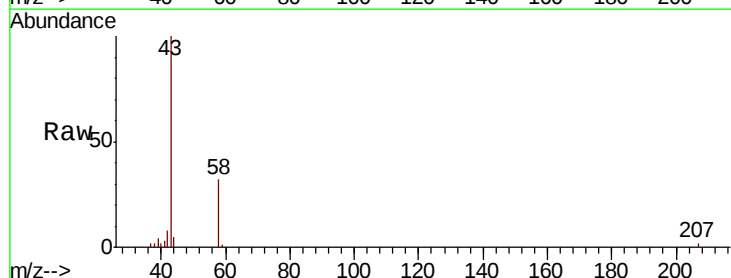
Acq: 6 Apr 2020 18:13

Tgt Ion: 43 Resp: 35181

Ion Ratio Lower Upper

43 100

58 31.8 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.78

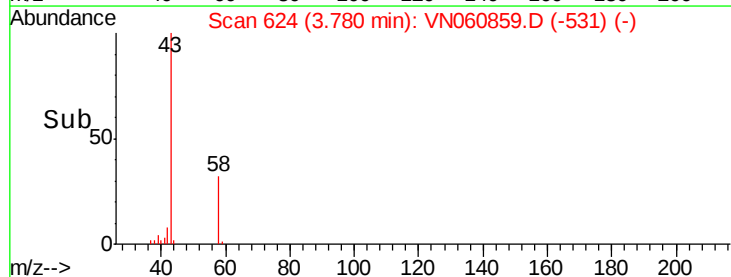
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5000

0

3.70 3.80 3.90

Time-->

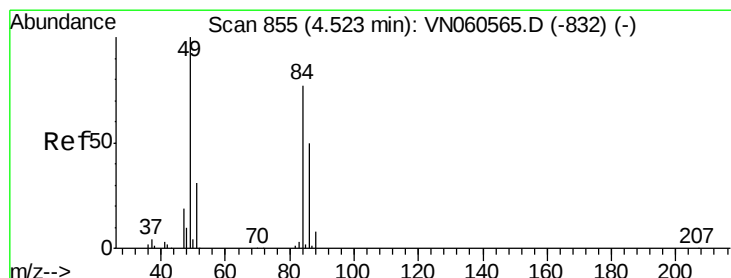
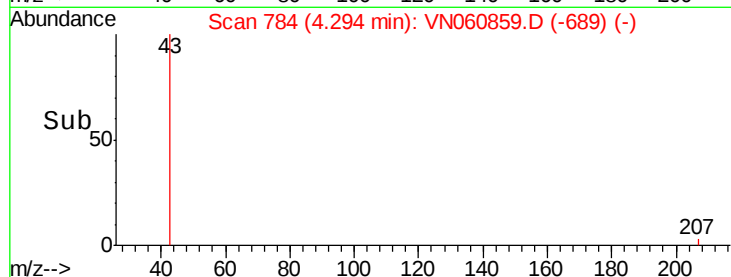
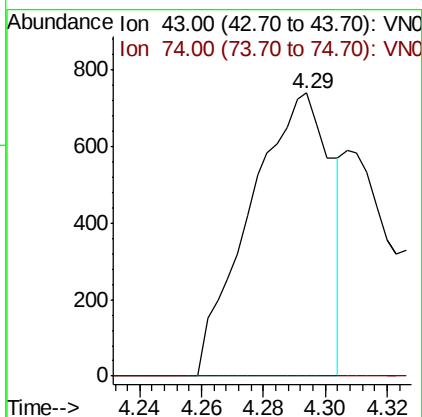
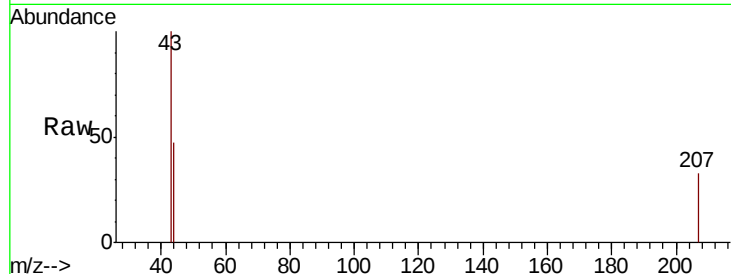




#18
Methyl Acetate
Concen: 0.484 ug/l
RT: 4.29 min Scan# 784
Delta R.T. 0.01 min
Lab File: VN060859.D
Acq: 6 Apr 2020 18:13

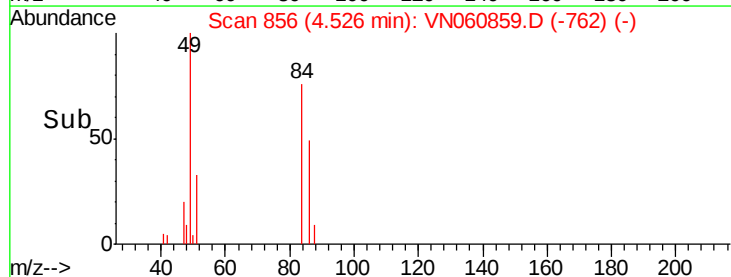
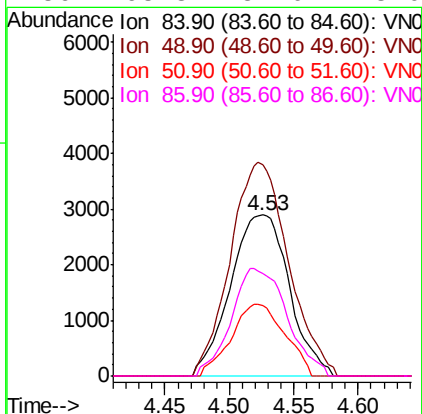
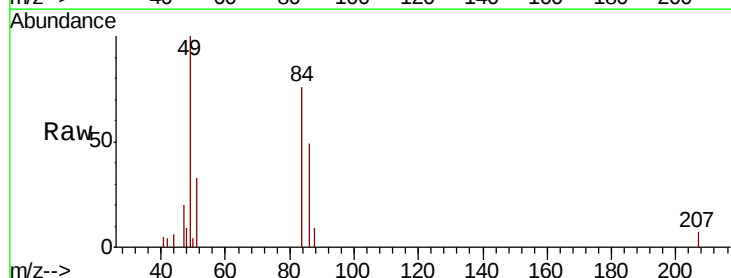
Instrument :
MSVOA_N
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Tot Ion: 43 Resp: 1343
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#



#20
Methylene Chloride
Concen: 3.801 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN060859.D
Acq: 6 Apr 2020 18:13

Tgt Ion: 84 Resp: 9213
Ion Ratio Lower Upper
84 100
49 131.0 103.3 154.9
51 43.8 31.6 47.4
86 63.8 52.0 78.0

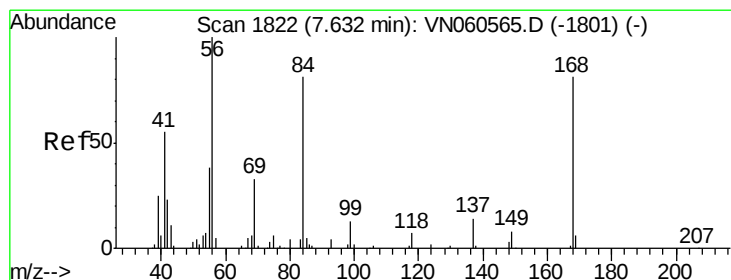
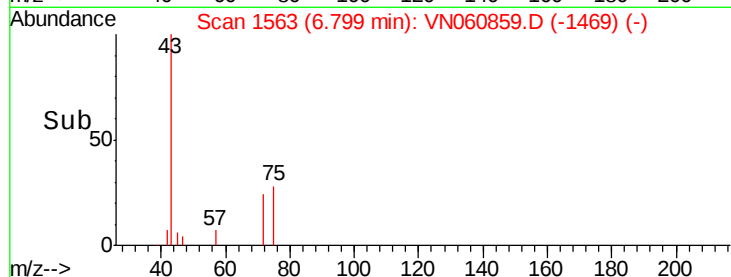
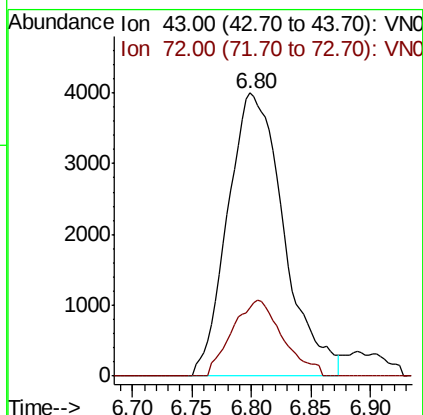
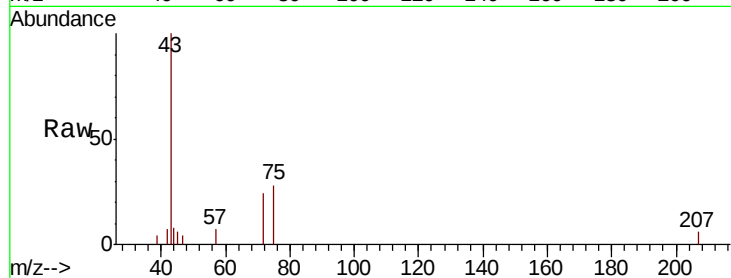




#25
2-Butanone
Concen: 8.181 ug/l
RT: 6.80 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VN060859.D
Acq: 6 Apr 2020 18:13

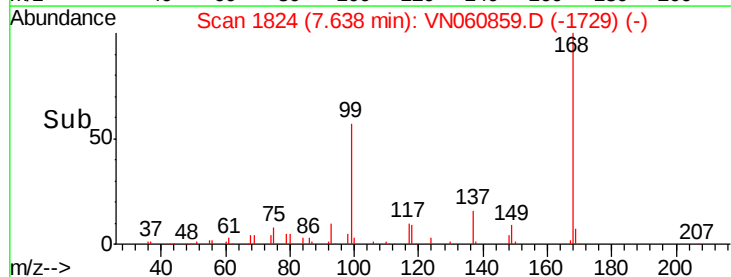
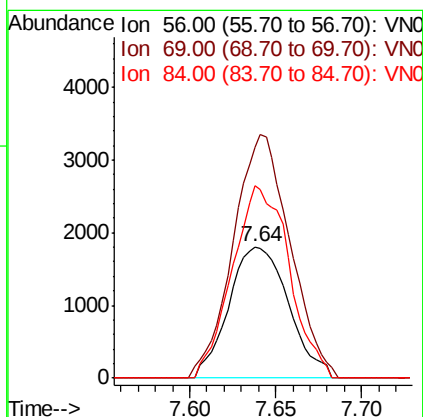
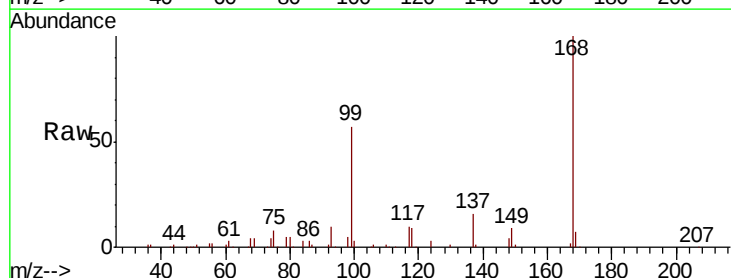
Instrument :
MSVOA_N
ClientSampleId :
BUS-WASH

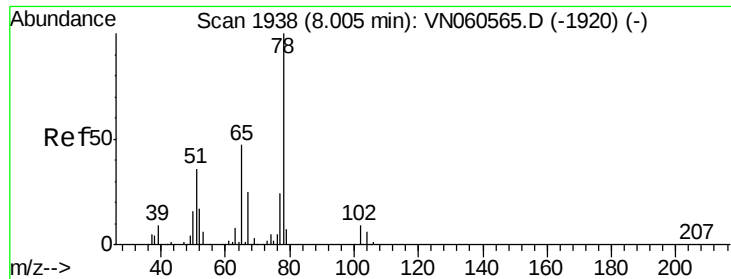
Tot Ion: 43 Resp: 13044
Ion Ratio Lower Upper
43 100
72 24.0 20.4 30.6



#31
Cyclohexane
Concen: 0.974 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. 0.01 min
Lab File: VN060859.D
Acq: 6 Apr 2020 18:13

Tgt Ion: 56 Resp: 4364
Ion Ratio Lower Upper
56 100
69 176.6 26.6 40.0#
84 146.7 64.3 96.5#

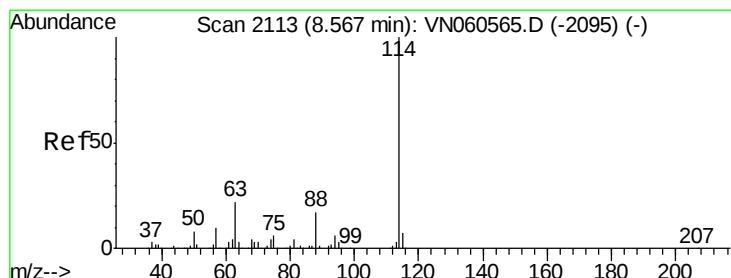
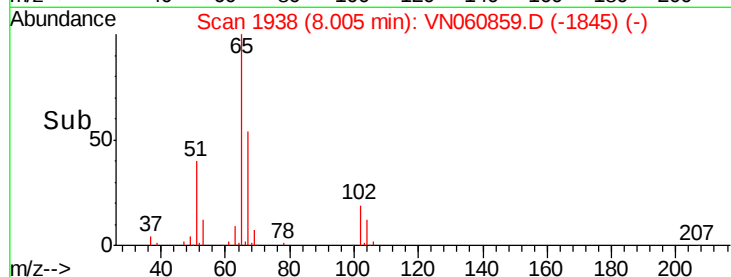
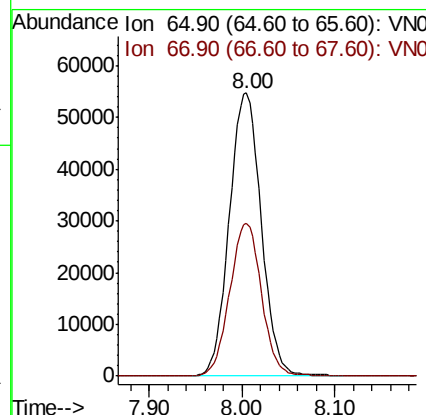
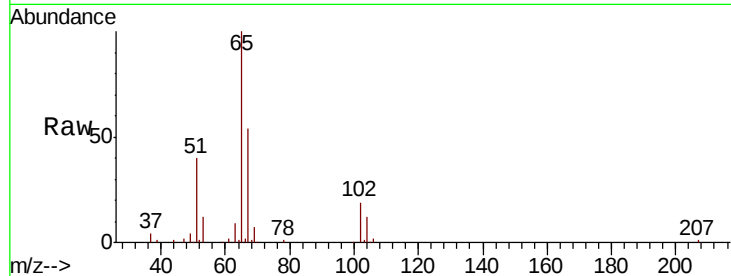




#33
 1,2-Dichloroethane-d4
 Concen: 47.081 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. -0.00 min
 Lab File: VN060859.D
 Acq: 6 Apr 2020 18:13

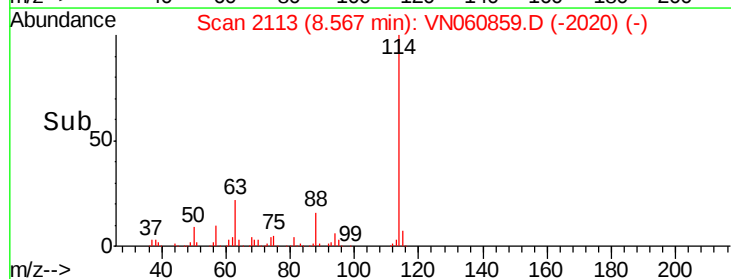
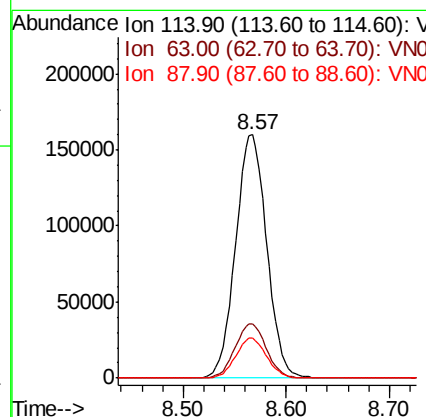
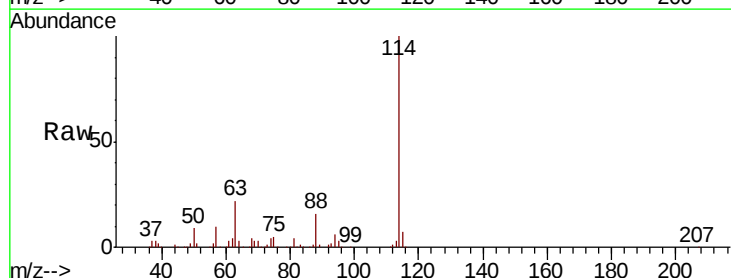
Instrument :
 MSVOA_N
 ClientSampleId :
 BUS-WASH

Tot Ion: 65 Resp: 130970
 Ion Ratio Lower Upper
 65 100
 67 53.7 0.0 107.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VN060859.D
 Acq: 6 Apr 2020 18:13

Tgt Ion: 114 Resp: 336885
 Ion Ratio Lower Upper
 114 100
 63 22.1 0.0 43.8
 88 16.2 0.0 33.0

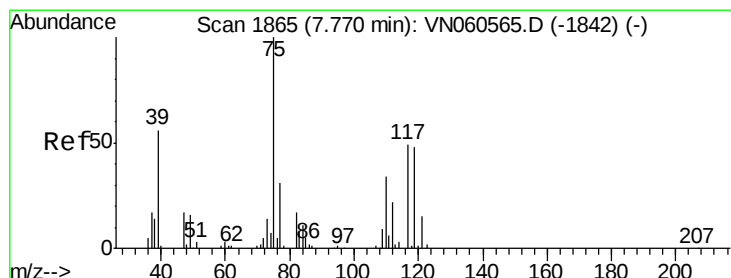
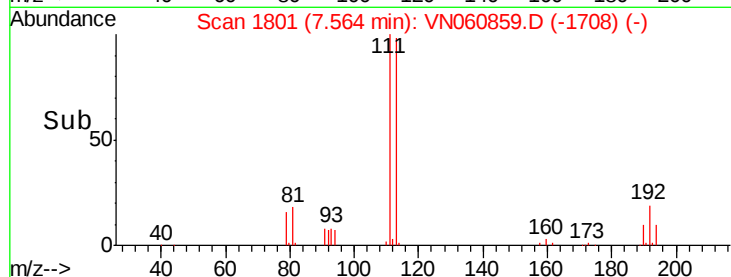
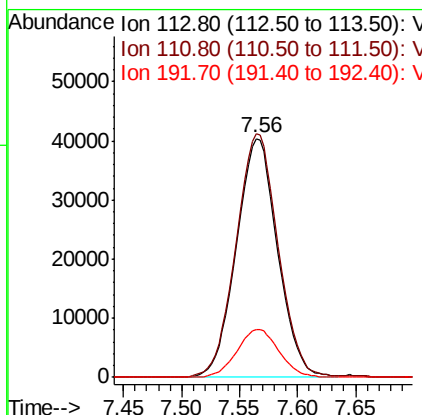
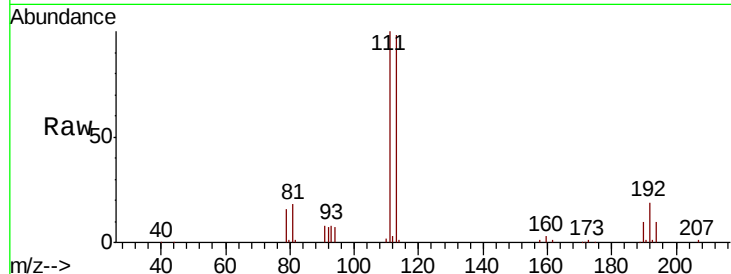




#35
 Dibromofluoromethane
 Concen: 49.067 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. -0.00 min
 Lab File: VN060859.D
 Acq: 6 Apr 2020 18:13

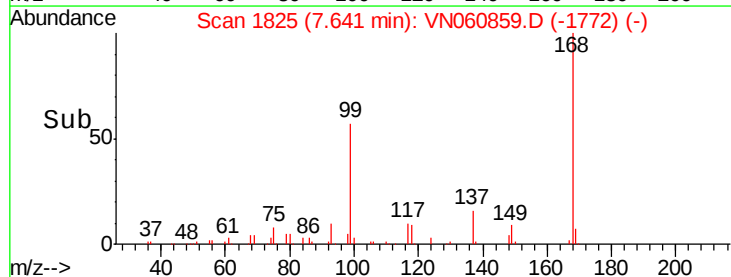
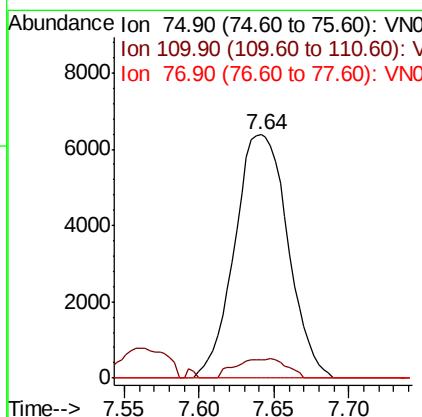
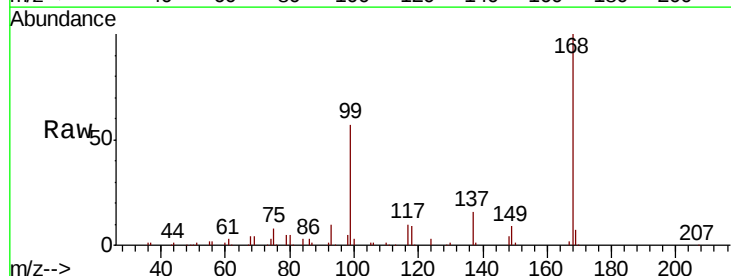
Instrument :
 MSVOA_N
 ClientSampleId :
 BUS-WASH

Tot Ion:113 Resp: 99952
 Ion Ratio Lower Upper
 113 100
 111 104.0 82.9 124.3
 192 20.4 15.8 23.8



#36
 1,1-Dichloropropene
 Concen: 4.836 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060859.D
 Acq: 6 Apr 2020 18:13

Tgt Ion: 75 Resp: 15776
 Ion Ratio Lower Upper
 75 100
 110 7.7 16.9 50.6#
 77 0.0 24.6 36.8#

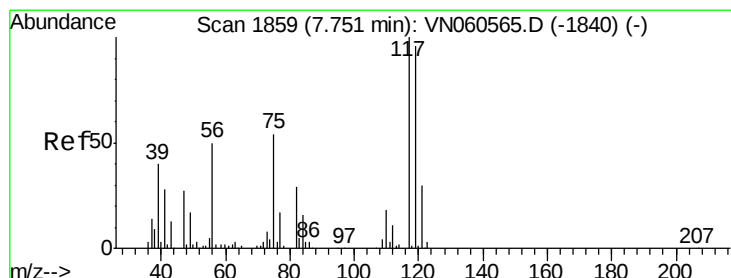
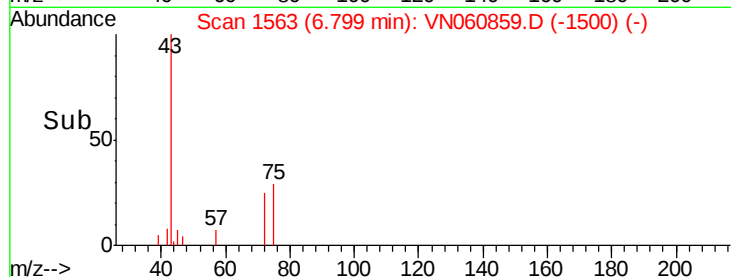
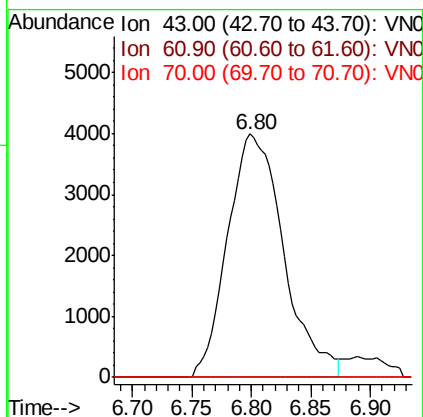
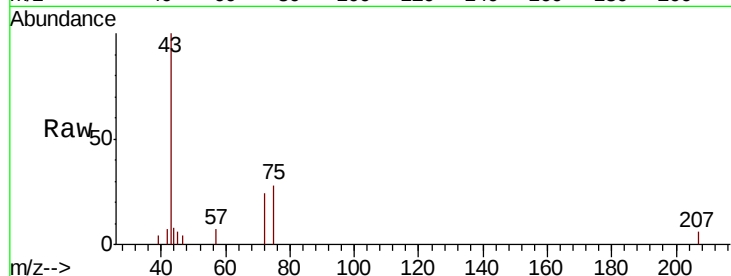




#37
Ethyl Acetate
Concen: 3.701 ug/l
RT: 6.80 min Scan# 1563
Delta R.T. -0.10 min
Lab File: VN060859.D
Acq: 6 Apr 2020 18:13

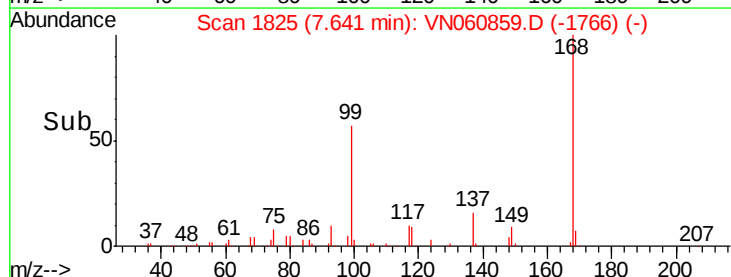
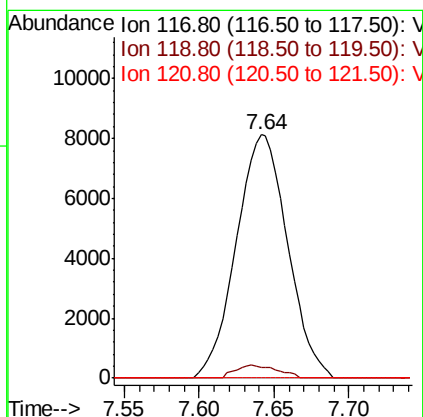
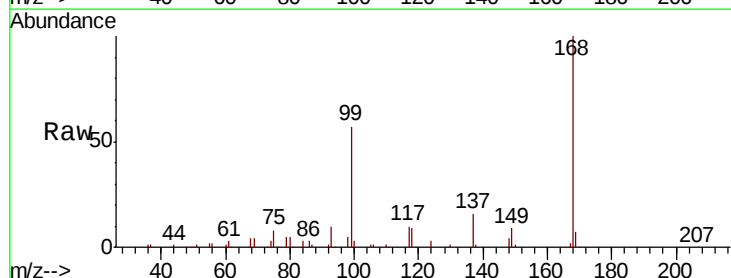
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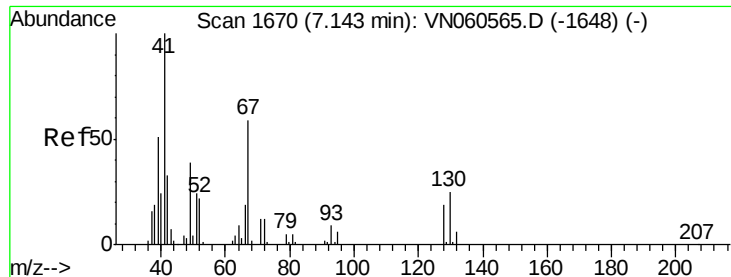
Tot Ion: 43 Resp: 13044
Ion Ratio Lower Upper
43 100
61 0.0 10.6 15.8#
70 0.0 7.9 11.9#



#38
Carbon Tetrachloride
Concen: 6.621 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.11 min
Lab File: VN060859.D
Acq: 6 Apr 2020 18:13

Tgt Ion: 117 Resp: 19359
Ion Ratio Lower Upper
117 100
119 4.3 76.2 114.2#
121 0.0 23.7 35.5#

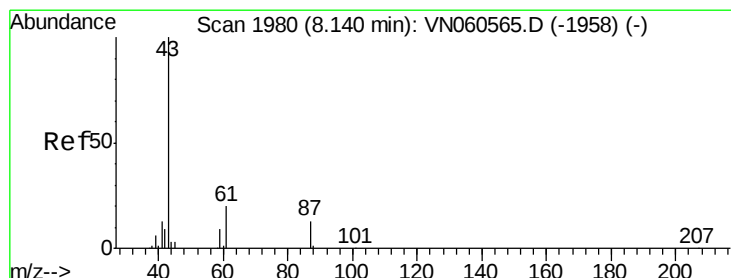
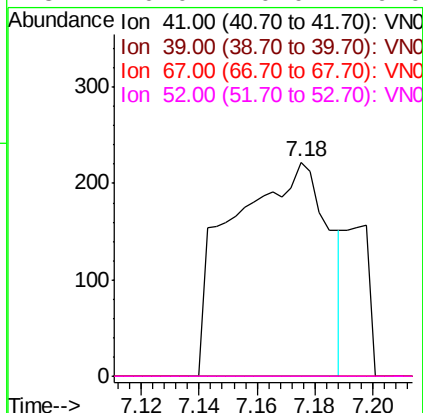
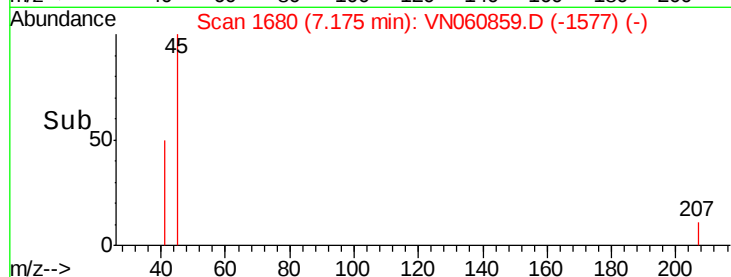
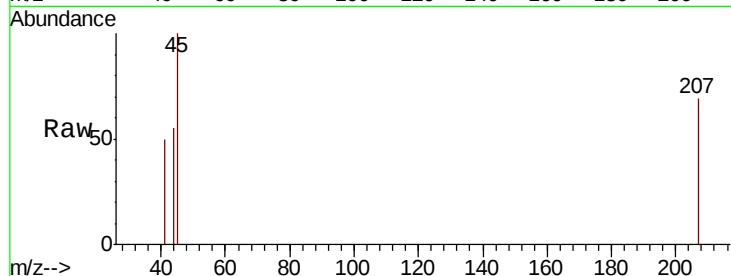




#41
Methacrylonitrile
Concen: 0.341 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. 0.03 min
Lab File: VN060859.D
Acq: 6 Apr 2020 18:13

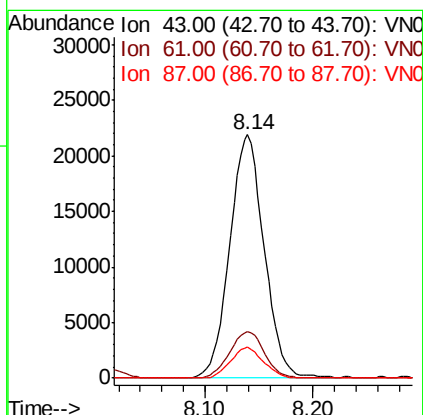
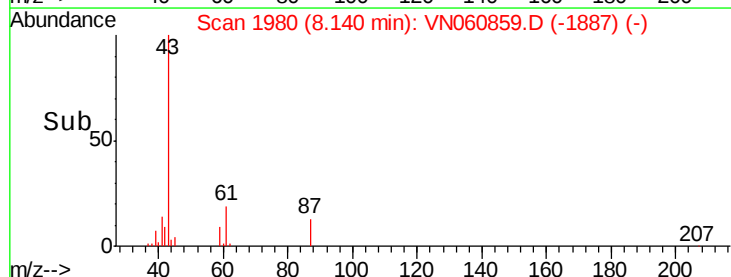
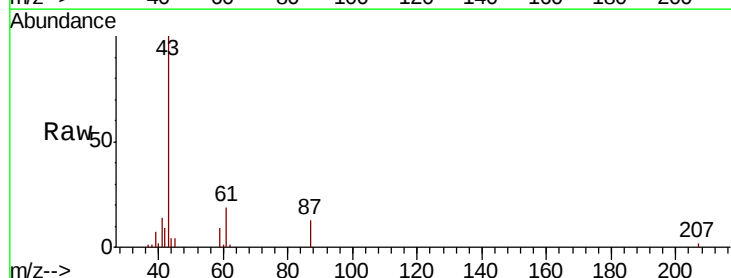
Instrument :
MSVOA_N
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BUS-WASH

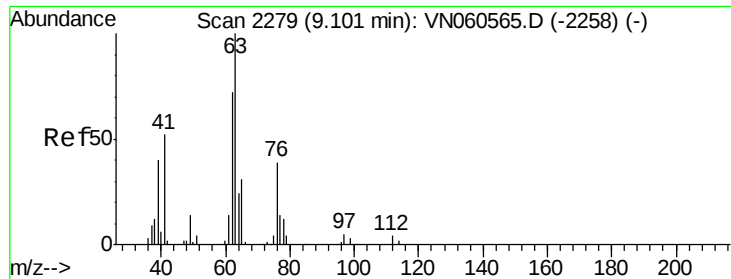
Tot Ion:	41	Resp:	513
Ion	Ratio	Lower	Upper
41	100		
39	0.0	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0



#43
Isopropyl Acetate
Concen: 8.373 ug/l
RT: 8.14 min Scan# 1980
Delta R.T. -0.00 min
Lab File: VN060859.D
Acq: 6 Apr 2020 18:13

Tgt Ion:	43	Resp:	48670
Ion	Ratio	Lower	Upper
43	100		
61	19.2	20.7	31.1#
87	12.0	9.8	14.8

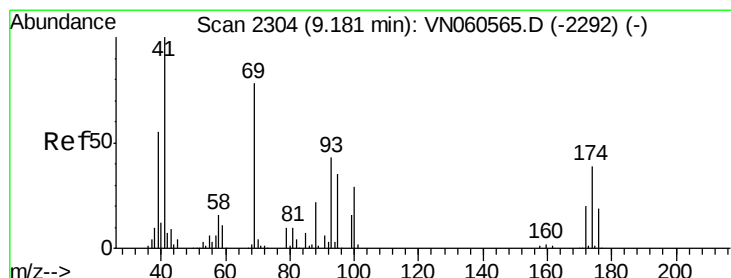
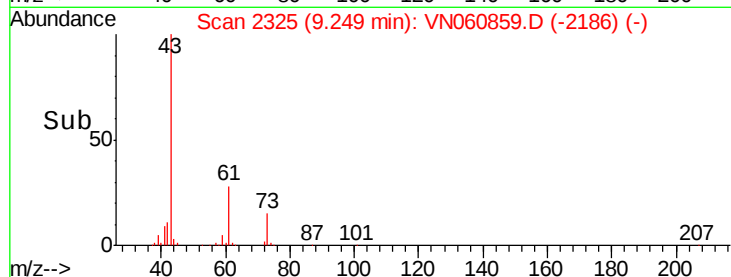
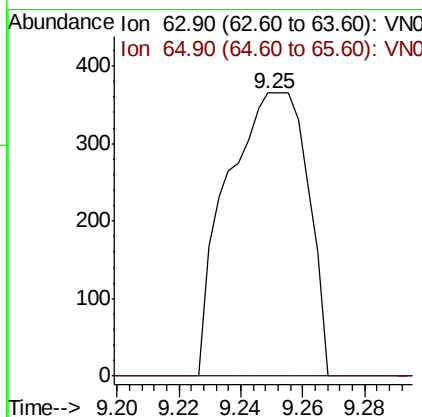
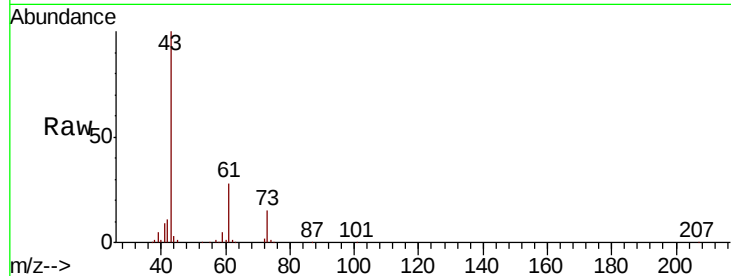




#45
 1,2-Dichloropropane
 Concen: 0.254 ug/l
 RT: 9.25 min Scan# 2325
 Delta R.T. 0.15 min
 Lab File: VN060859.D
 Acq: 6 Apr 2020 18:13

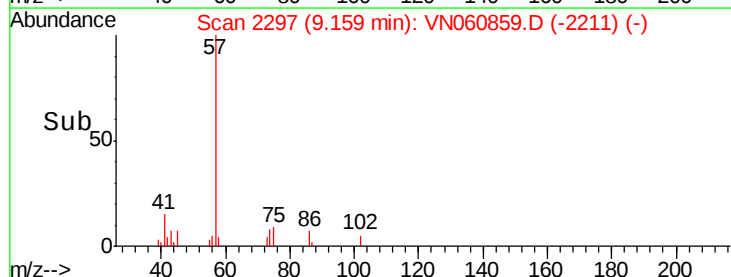
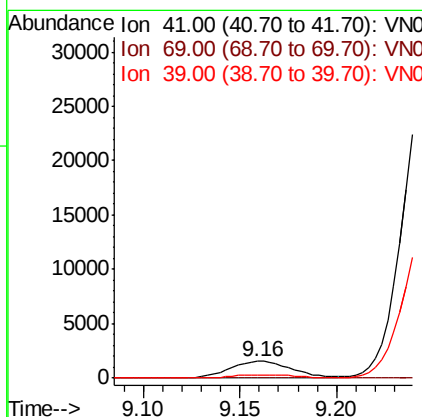
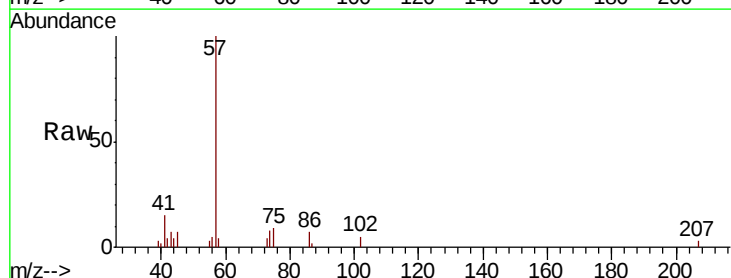
Instrument :
 MSVOA_N
 ClientSampleId :
 BUS-WASH

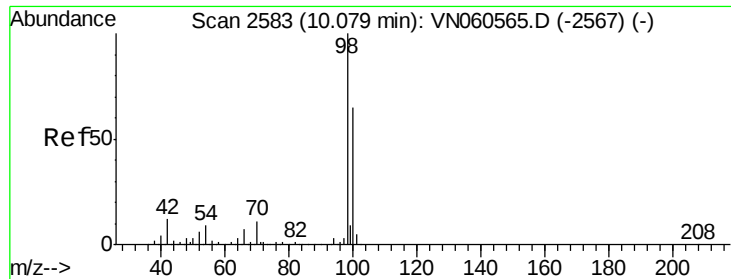
Tot Ion: 63 Resp: 661
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.4 38.0#



#48
 Methyl methacrylate
 Concen: 1.343 ug/l
 RT: 9.16 min Scan# 2297
 Delta R.T. -0.02 min
 Lab File: VN060859.D
 Acq: 6 Apr 2020 18:13

Tgt Ion: 41 Resp: 3475
 Ion Ratio Lower Upper
 41 100
 69 0.0 65.4 98.0#
 39 0.0 44.0 66.0#

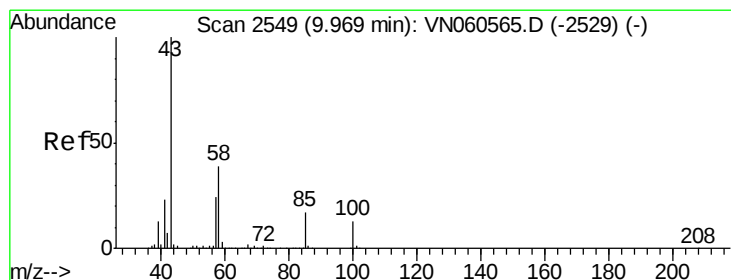
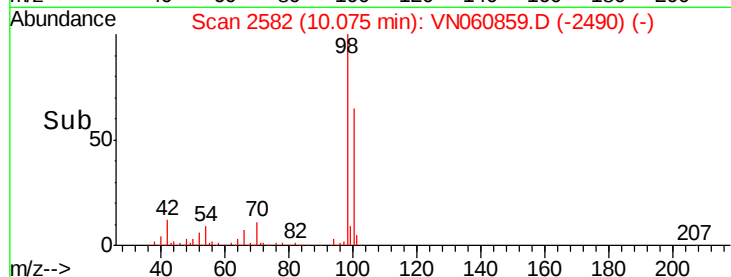
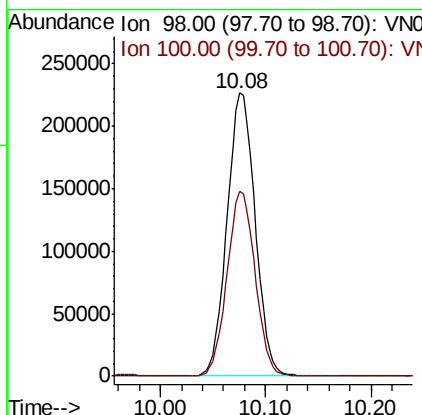
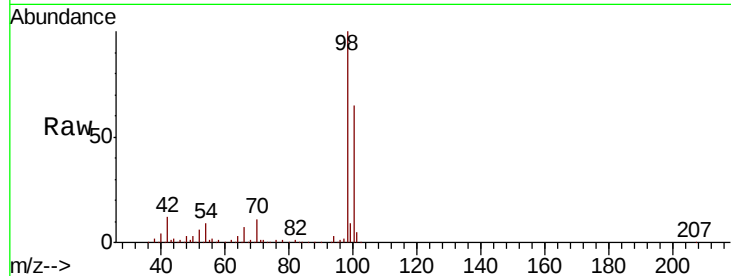




#50
Toluene-d8
Concen: 50.237 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. -0.00 min
Lab File: VN060859.D
Acq: 6 Apr 2020 18:13

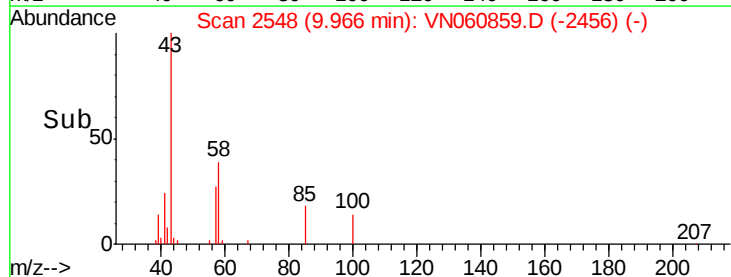
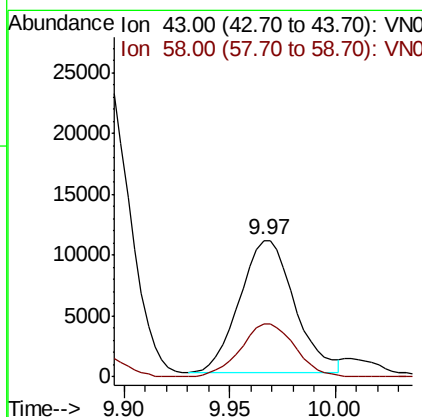
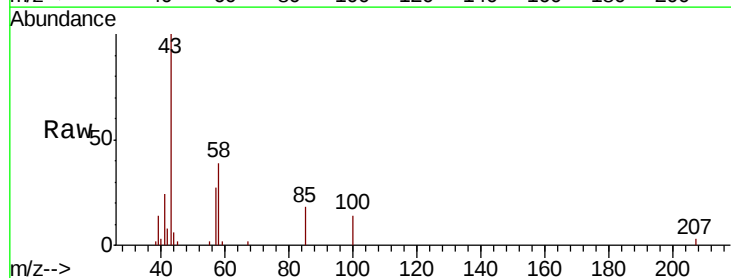
Instrument :
MSVOA_N
ClientSampled :
BUS-WASH

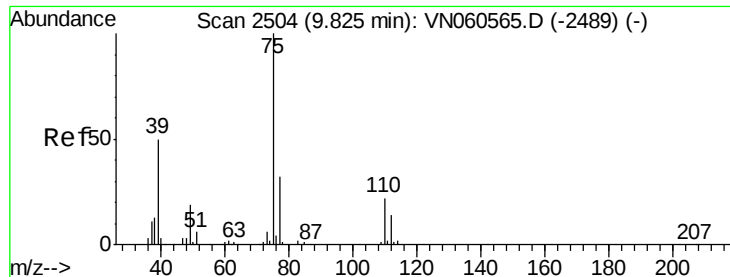
Tot Ion: 98 Resp: 417996
Ion Ratio Lower Upper
98 100
100 65.0 51.8 77.8



#51
4-Methyl-2-Pentanone
Concen: 5.991 ug/l
RT: 9.97 min Scan# 2548
Delta R.T. -0.00 min
Lab File: VN060859.D
Acq: 6 Apr 2020 18:13

Tgt Ion: 43 Resp: 19818
Ion Ratio Lower Upper
43 100
58 39.5 30.8 46.2





#54

cis-1,3-Dichloropropene

Concen: 5.714 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060859.D

Acq: 6 Apr 2020 18:13

Instrument :

MSVOA_N

ClientSampleId :

BUS-WASH

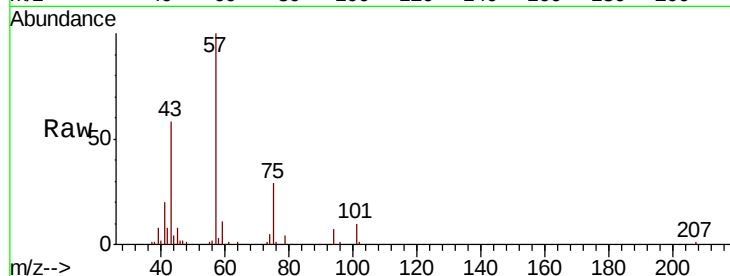
Tot Ion: 75 Resp: 23504

Ion Ratio Lower Upper

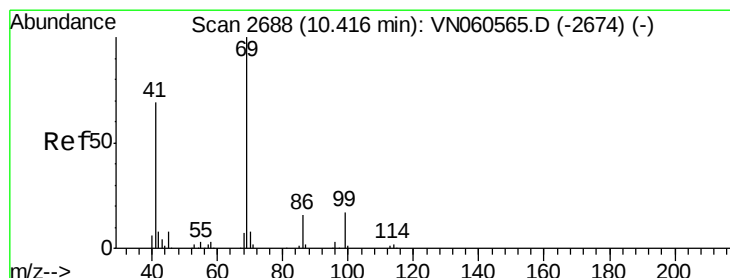
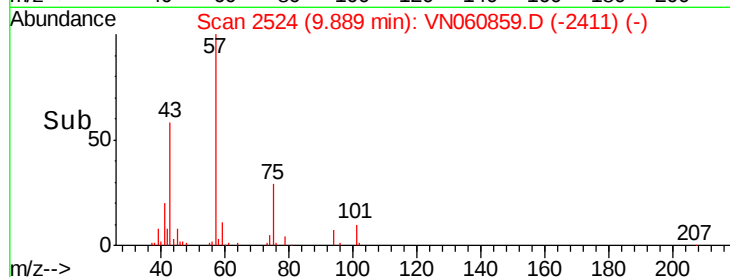
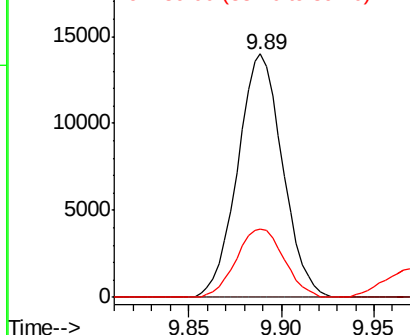
75 100

77 0.0 25.4 38.0#

39 28.3 40.2 60.4#



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 76.90 (76.60 to 77.60): VNO
Ion 39.00 (38.70 to 39.70): VNO



#56

Ethyl methacrylate

Concen: 0.602 ug/l

RT: 10.34 min Scan# 2664

Delta R.T. -0.08 min

Lab File: VN060859.D

Acq: 6 Apr 2020 18:13

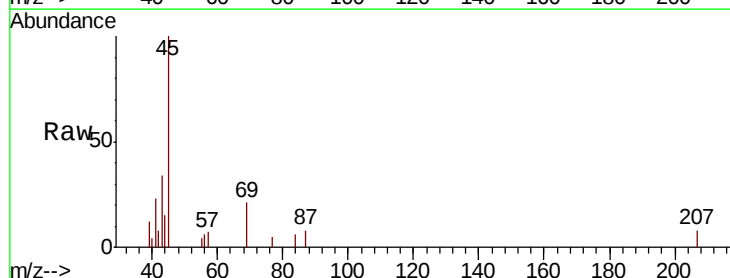
Tgt Ion: 69 Resp: 2149

Ion Ratio Lower Upper

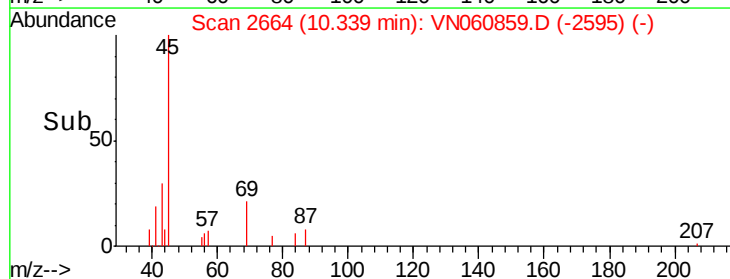
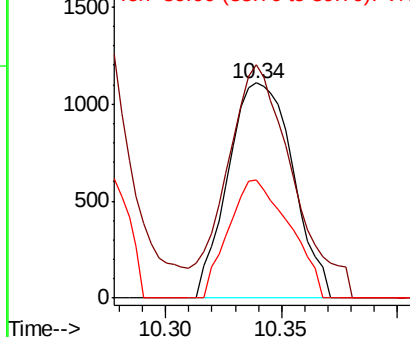
69 100

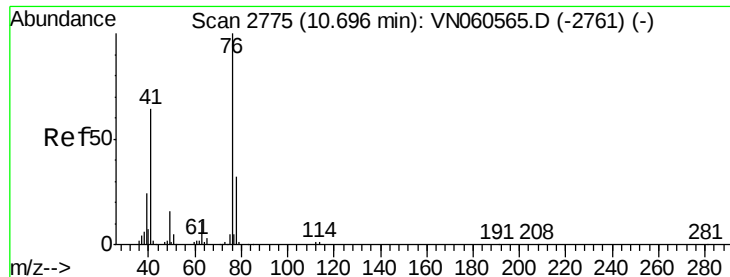
41 110.4 55.4 83.2#

39 51.7 29.4 44.0#



Abundance Ion 69.00 (68.70 to 69.70): VNO
Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO





#57

1,3-Dichloropropane

Concen: 0.799 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060859.D

Acq: 6 Apr 2020 18:13

Instrument :

MSVOA_N

ClientSampleId :

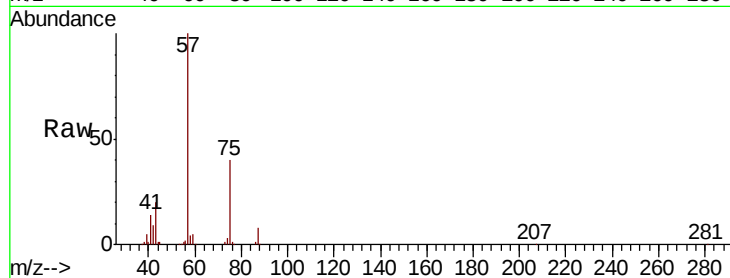
BUS-WASH

Tot Ion: 76 Resp: 3172

Ion Ratio Lower Upper

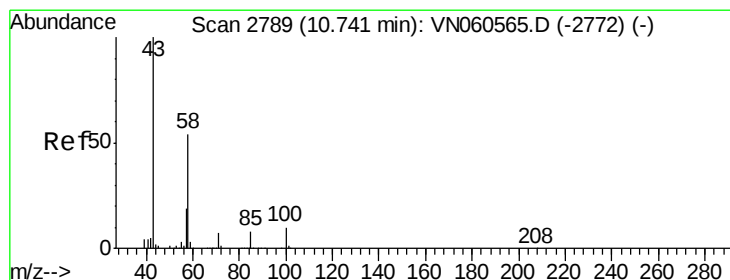
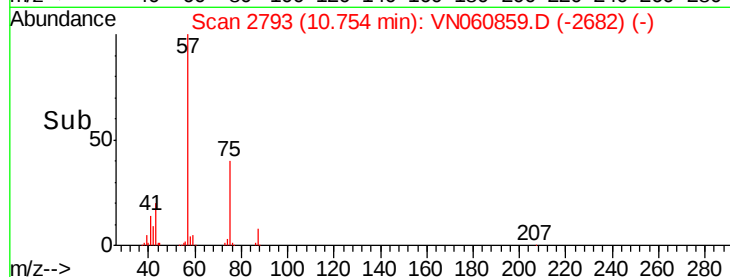
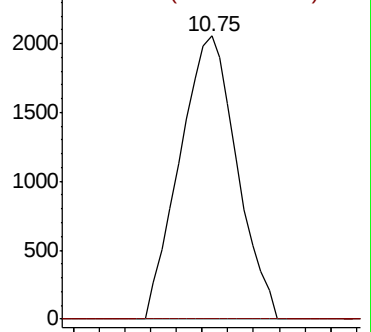
76 100

78 0.0 25.8 38.6#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 20.382 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN060859.D

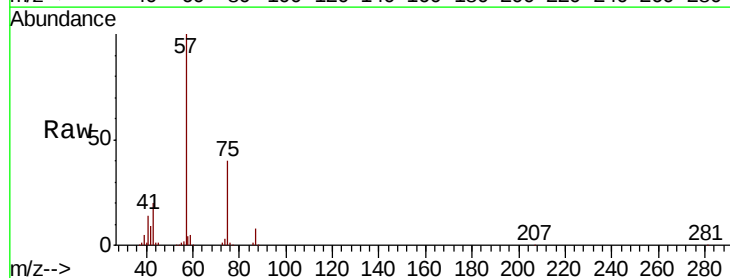
Acq: 6 Apr 2020 18:13

Tgt Ion: 43 Resp: 48566

Ion Ratio Lower Upper

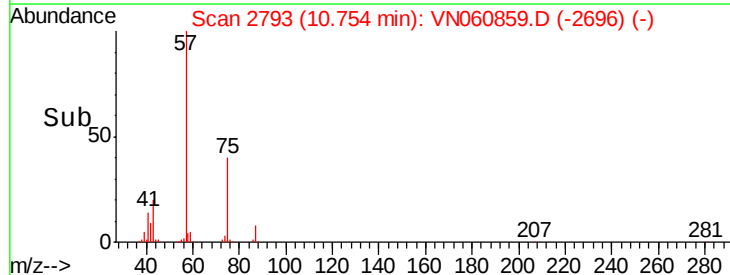
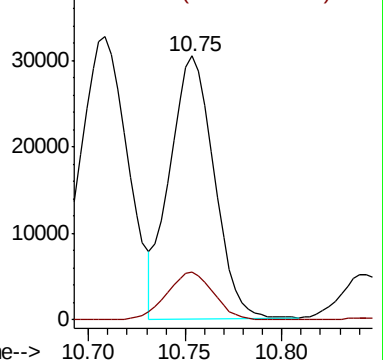
43 100

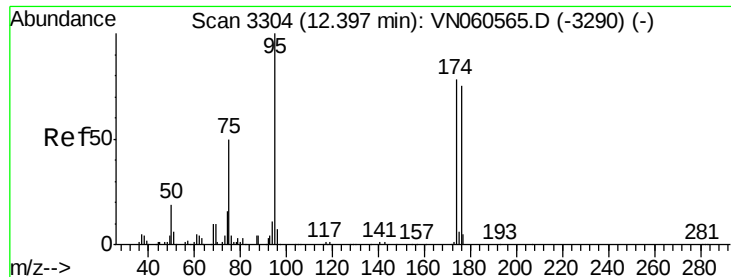
58 19.1 26.7 80.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 51.178 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.00 min

Lab File: VN060859.D

Acq: 6 Apr 2020 18:13

Instrument :

MSVOA_N

ClientSampleId :

BUS-WASH

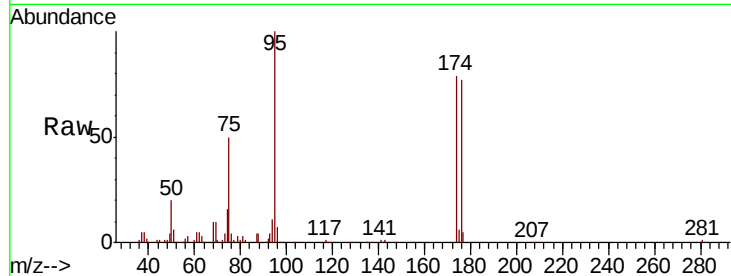
Tot Ion: 95 Resp: 156059

Ion Ratio Lower Upper

95 100

174 78.4 0.0 157.6

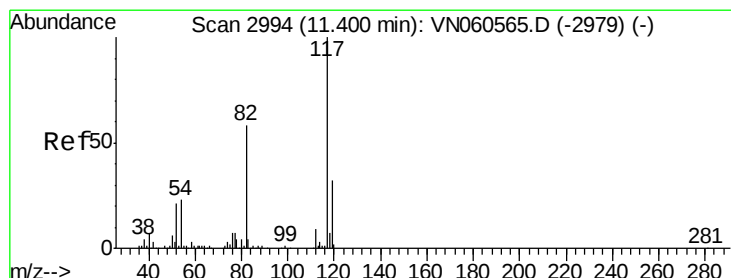
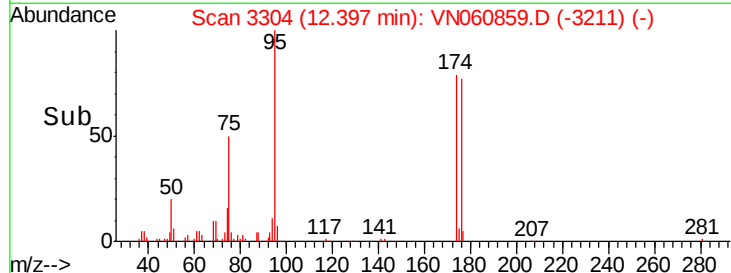
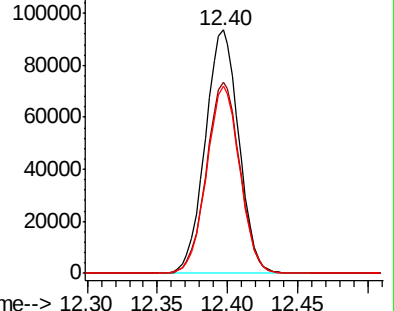
176 76.1 0.0 150.6



Abundance Ion 94.90 (94.60 to 95.60): VN060859.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN060859.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN060859.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. -0.00 min

Lab File: VN060859.D

Acq: 6 Apr 2020 18:13

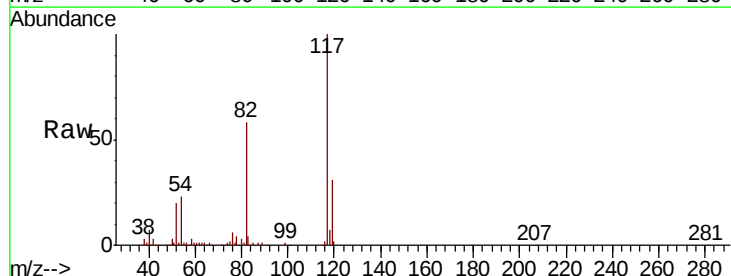
Tgt Ion: 117 Resp: 320400

Ion Ratio Lower Upper

117 100

82 58.5 46.7 70.1

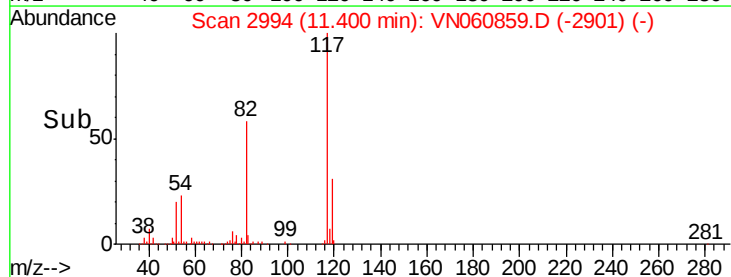
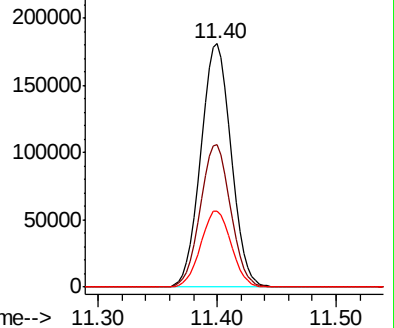
119 31.4 25.5 38.3

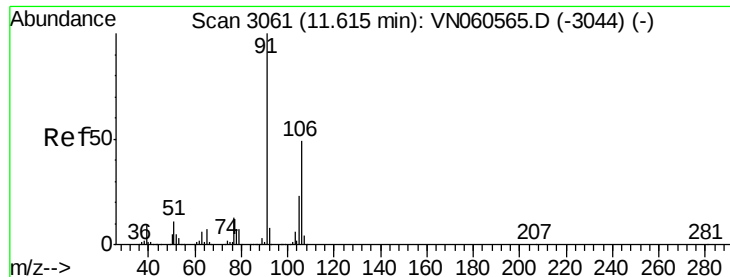


Abundance Ion 116.90 (116.60 to 117.60): VN060859.D (-2979) (-)

Ion 82.00 (81.70 to 82.70): VN060859.D (-2979) (-)

Ion 118.90 (118.60 to 119.60): VN060859.D (-2979) (-)

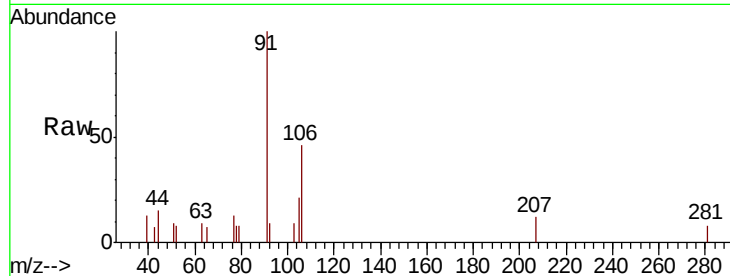




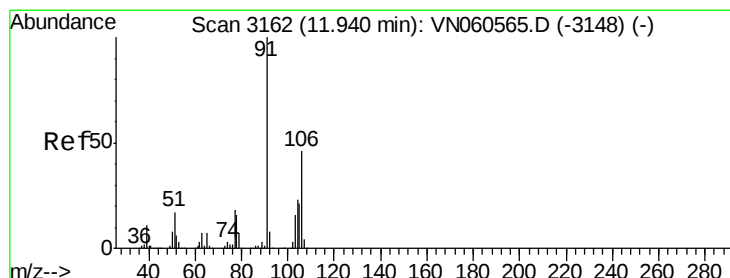
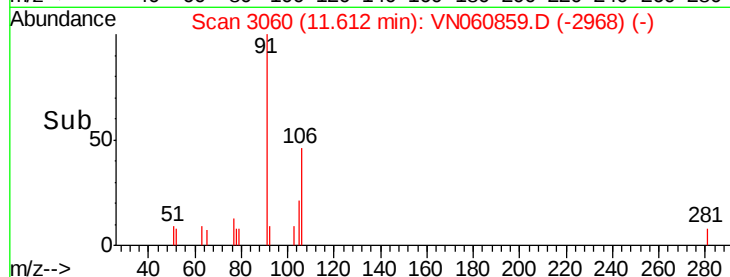
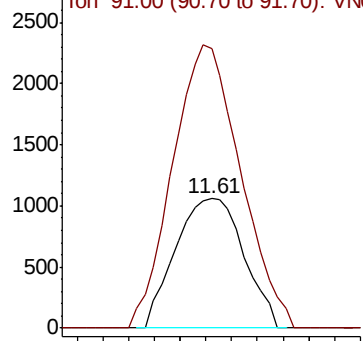
#68
m/p-Xylenes
Concen: 0.445 ug/l
RT: 11.61 min Scan# 3060
Delta R.T. -0.00 min
Lab File: VN060859.D
Acq: 6 Apr 2020 18:13

Instrument :
MSVOA_N
ClientSampled :
BUS-WASH

Tot Ion:106 Resp: 1952
Ion Ratio Lower Upper
106 100
91 217.6 165.0 247.4

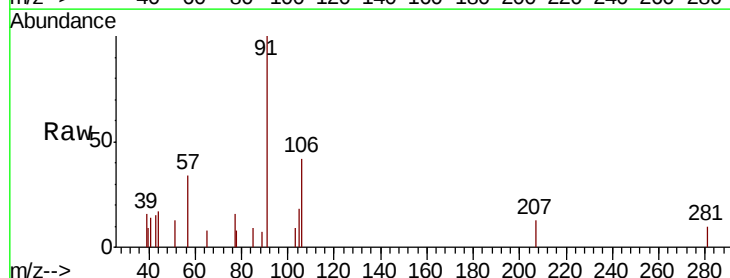


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN0

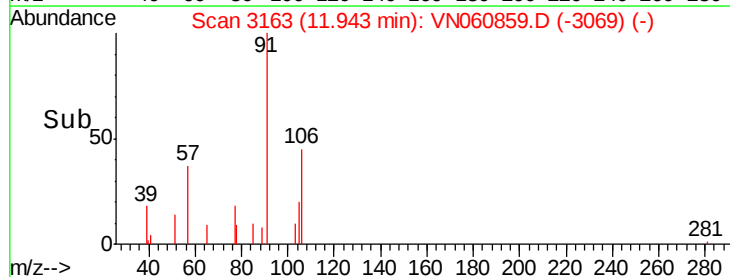
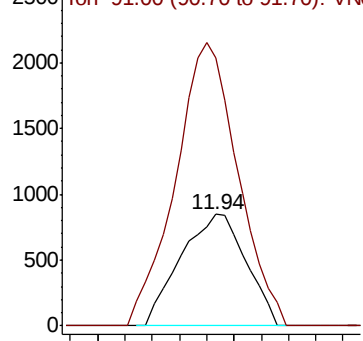


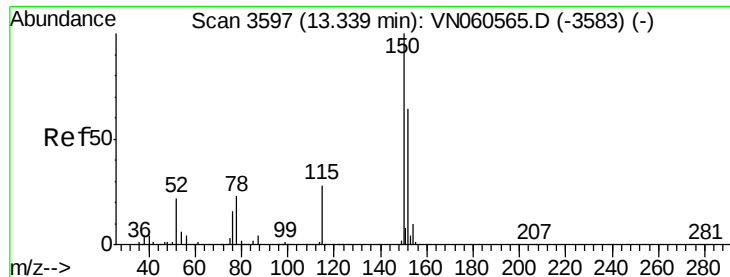
#69
o-Xylene
Concen: 0.336 ug/l
RT: 11.94 min Scan# 3163
Delta R.T. 0.00 min
Lab File: VN060859.D
Acq: 6 Apr 2020 18:13

Tgt Ion:106 Resp: 1408
Ion Ratio Lower Upper
106 100
91 242.3 109.5 328.4



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. -0.00 min

Lab File: VN060859.D

Acq: 6 Apr 2020 18:13

Instrument :

MSVOA_N

ClientSampleId :

BUS-WASH

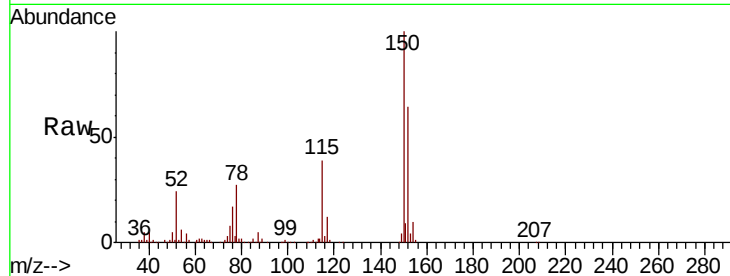
Tot Ion:152 Resp: 144740

Ion Ratio Lower Upper

152 100

115 60.6 30.2 90.6

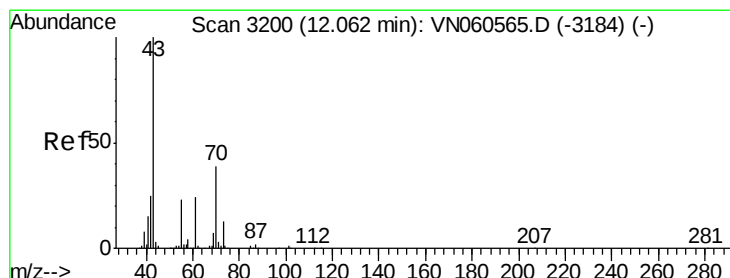
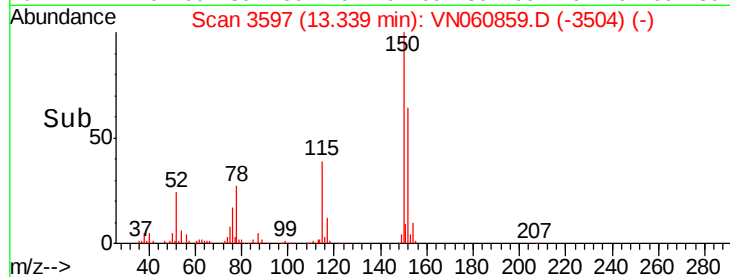
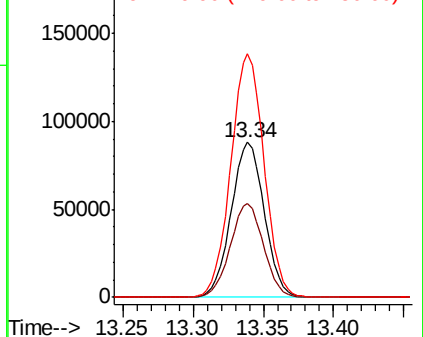
150 157.8 0.0 350.2



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: 0.920 ug/l

RT: 12.02 min Scan# 3187

Delta R.T. -0.04 min

Lab File: VN060859.D

Acq: 6 Apr 2020 18:13

Tgt Ion: 43 Resp: 4616

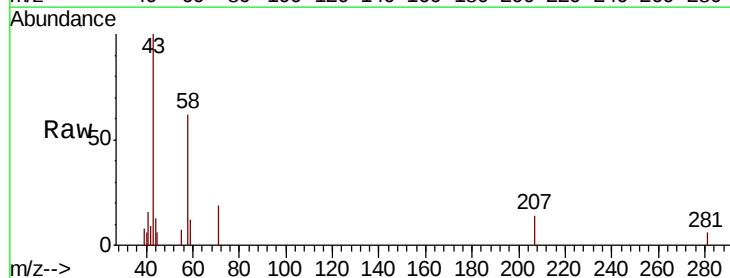
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 5.0 18.6 27.8#

61 0.0 18.9 28.3#

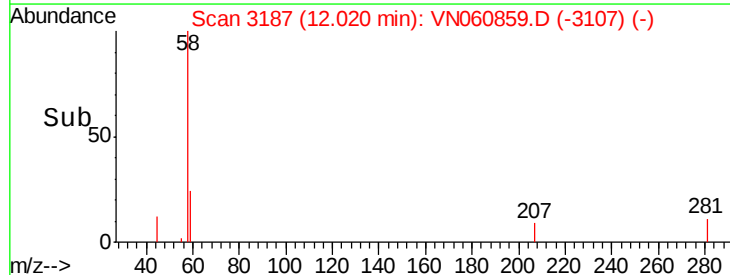
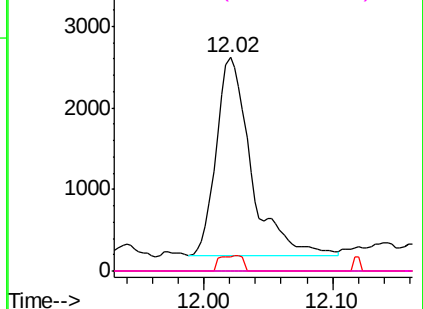


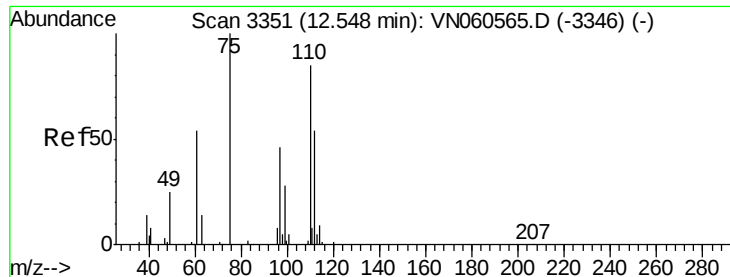
Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 25.360 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060859.D

Acq: 6 Apr 2020 18:13

Instrument :

MSVOA_N

ClientSampleId :

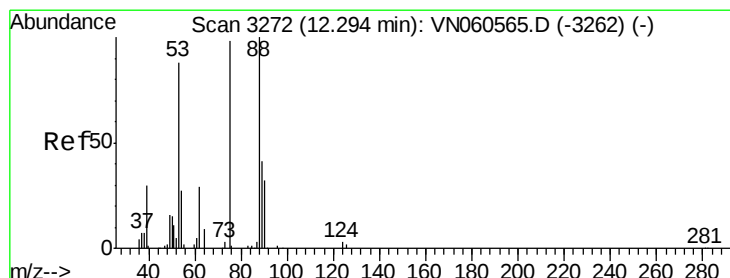
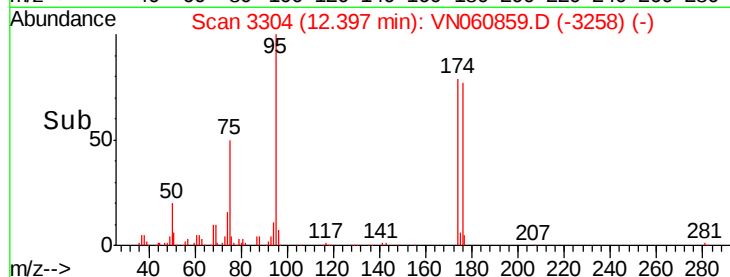
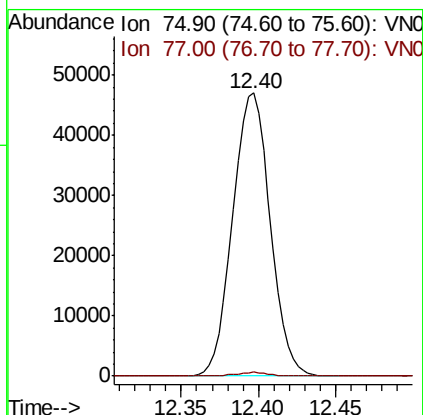
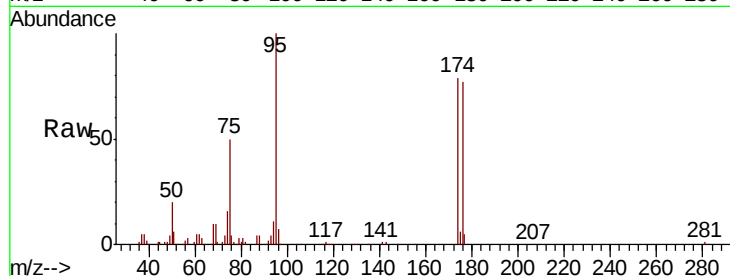
BUS-WASH

Tot Ion: 75 Resp: 79204

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 65.132 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060859.D

Acq: 6 Apr 2020 18:13

Tgt Ion: 75 Resp: 79204

Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.4#

89 0.0 34.8 52.2#

