

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN033120\
 Data File : VN060789.D
 Acq On : 31 Mar 2020 16:28
 Operator : JC/MD
 Sample : L2070-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 01 08:24:01 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	196138	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	328432	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	311149	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	145270	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	129076	47.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.88%	
35) Dibromofluoromethane	7.56	113	96987	48.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.68%	
50) Toluene-d8	10.08	98	408561	50.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.74%	
62) 4-Bromofluorobenzene	12.40	95	155156	52.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.38%	

Target Compounds

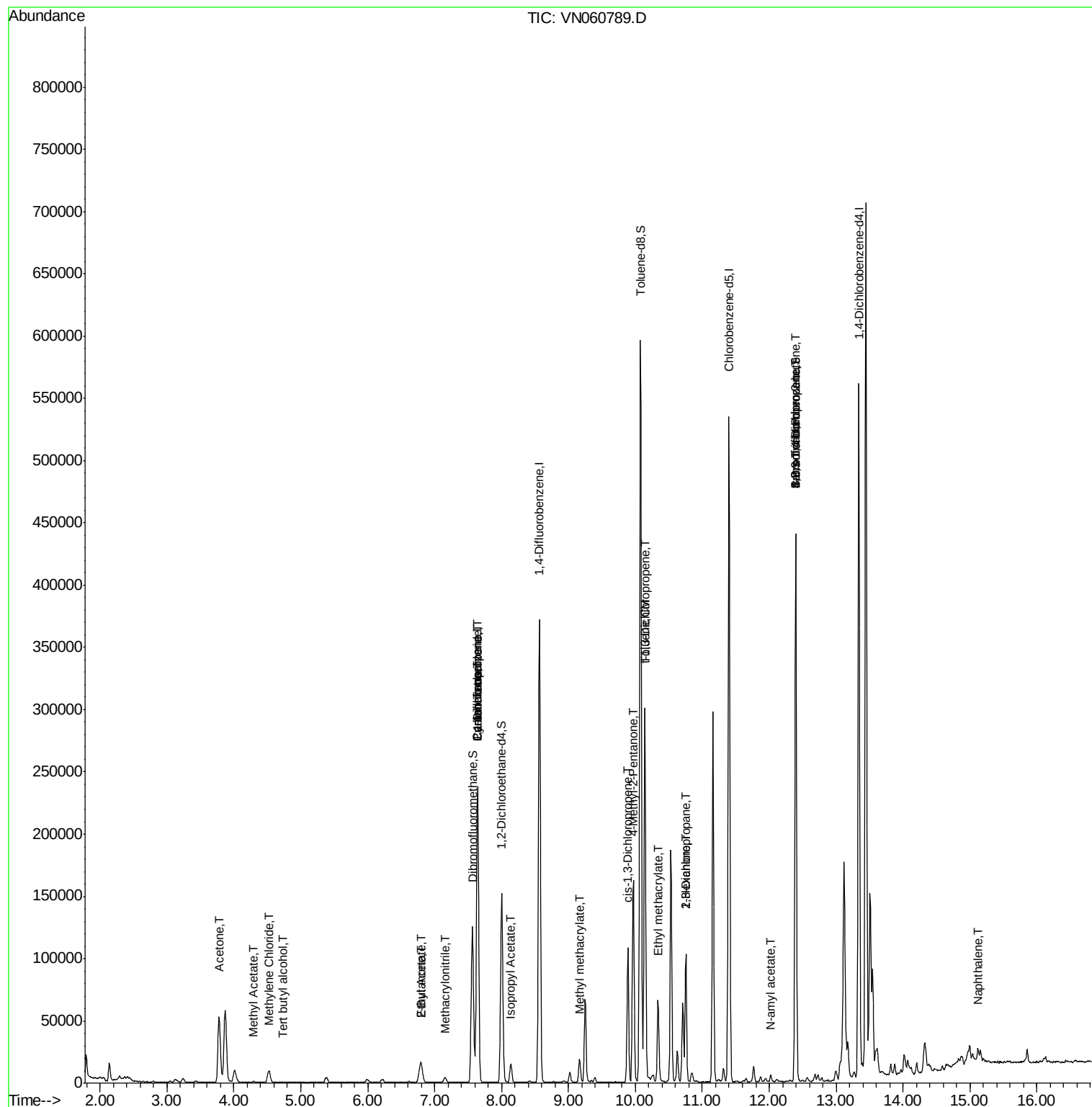
						Qvalue
11) Tert butyl alcohol	4.73	59	288	0.727	ug/l #	72
16) Acetone	3.78	43	92446	96.929	ug/l	97
18) Methyl Acetate	4.29	43	2335	0.870	ug/l #	73
20) Methylene Chloride	4.52	84	7518	3.204	ug/l	93
25) 2-Butanone	6.80	43	26780	17.352	ug/l	97
31) Cyclohexane	7.64	56	4276	0.986	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	15438	4.854	ug/l #	49
37) Ethyl Acetate	6.80	43	26780	7.793	ug/l #	70
38) Carbon Tetrachloride	7.64	117	18756	6.580	ug/l #	16
41) Methacrylonitrile	7.15	41	911	0.621	ug/l #	100
43) Isopropyl Acetate	8.14	43	18288	3.227	ug/l #	89
48) Methyl methacrylate	9.16	41	3588	1.422	ug/l #	23
51) 4-Methyl-2-Pentanone	9.97	43	114809	35.601	ug/l	99
52) Toluene	10.14	92	130309	22.475	ug/l	100
53) t-1,3-Dichloropropene	10.14	75	1417	0.388	ug/l #	1
54) cis-1,3-Dichloropropene	9.89	75	18163	4.529	ug/l #	61
56) Ethyl methacrylate	10.34	69	10107	2.906	ug/l #	58
57) 1,3-Dichloropropane	10.75	76	863	0.223	ug/l #	42
59) 2-Hexanone	10.75	43	16049	6.909	ug/l #	57
71) Bromoform	12.39	173	106	1.736	ug/l #	29
74) N-amyl acetate	12.02	43	4197	0.833	ug/l #	49
76) 1,2,3-Trichloropropane	12.40	75	77716	24.793	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	77716	63.675	ug/l #	13
92) 1,2-Dibromo-3-Chloropropan	14.41	75	29	Below Cal	#	3
95) Naphthalene	15.13	128	2230	0.273	ug/l #	79

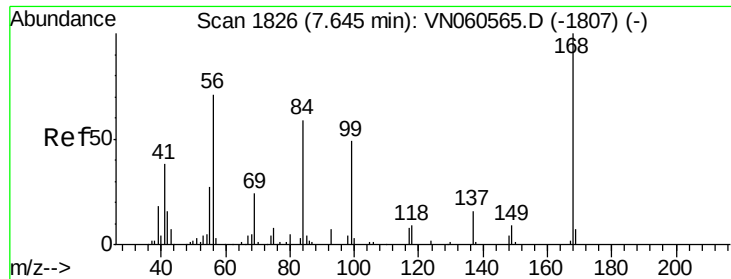
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VN060789.D
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Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
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Quant Time: Apr 01 08:24:01 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N031820W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 18 08:49:09 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060789.D

Acq: 31 Mar 2020 16:28

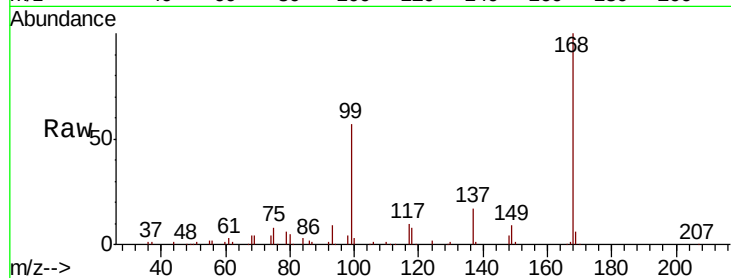
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 196138

Ion Ratio Lower Upper

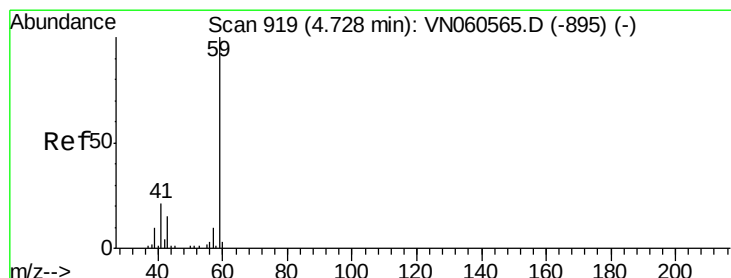
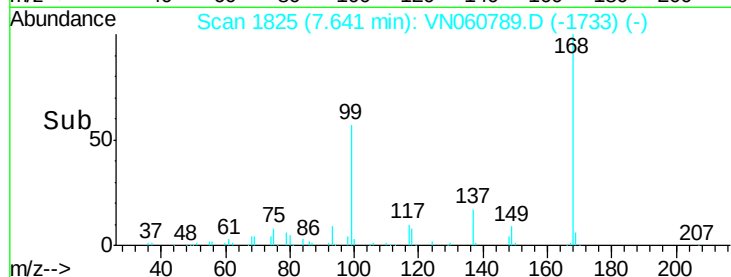
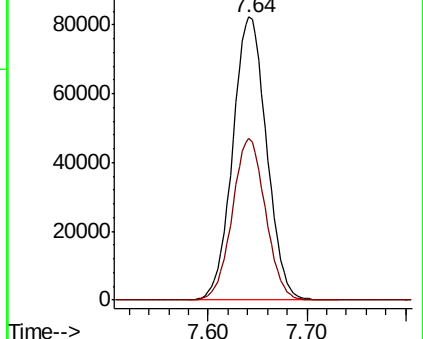
168 100

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



#11

Tert butyl alcohol

Concen: 0.727 ug/l

RT: 4.73 min Scan# 919

Delta R.T. 0.00 min

Lab File: VN060789.D

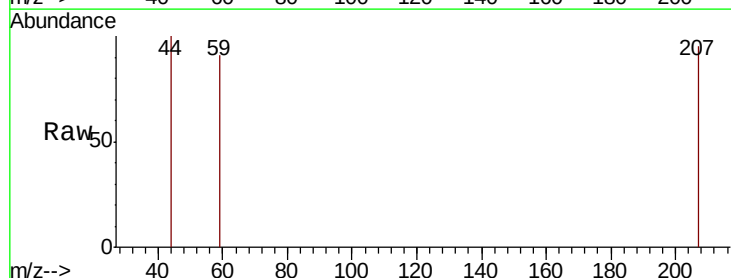
Acq: 31 Mar 2020 16:28

Tgt Ion: 59 Resp: 288

Ion Ratio Lower Upper

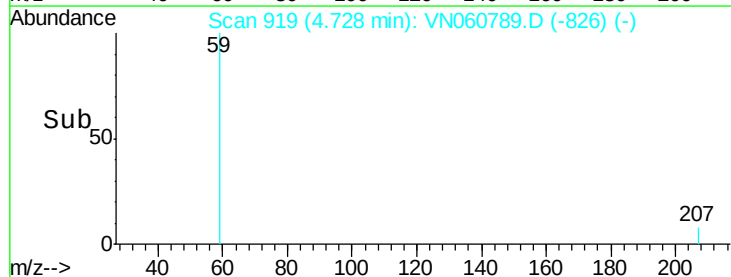
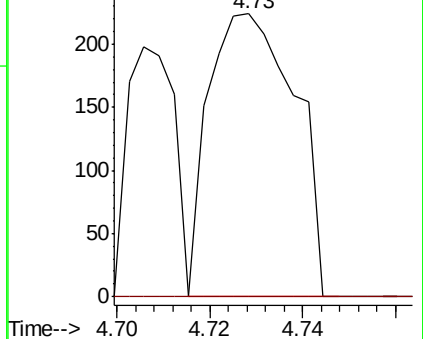
59 100

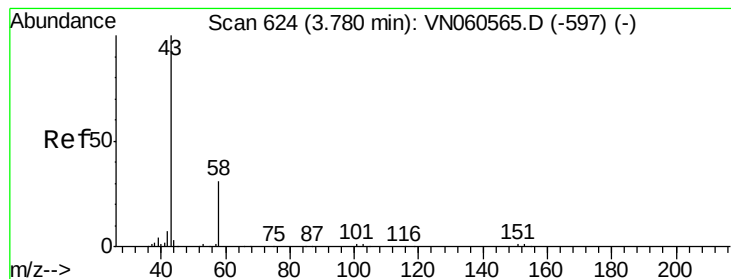
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN





#16

Acetone

Concen: 96.929 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.00 min

Lab File: VN060789.D

Acq: 31 Mar 2020 16:28

Instrument :

MSVOA_N

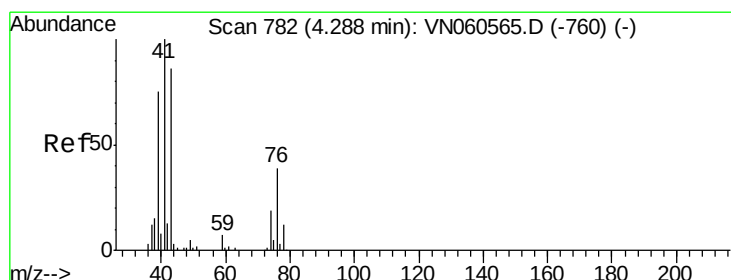
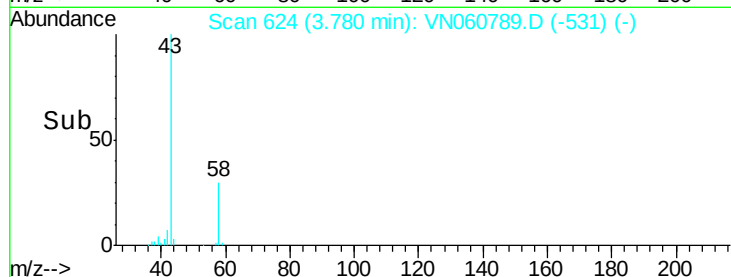
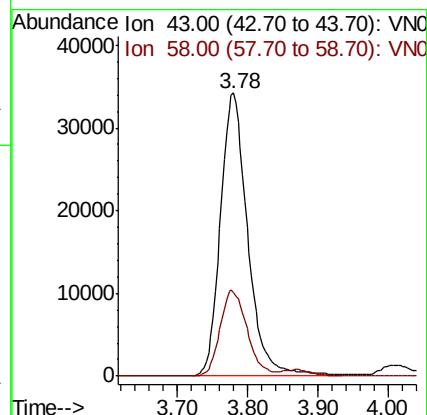
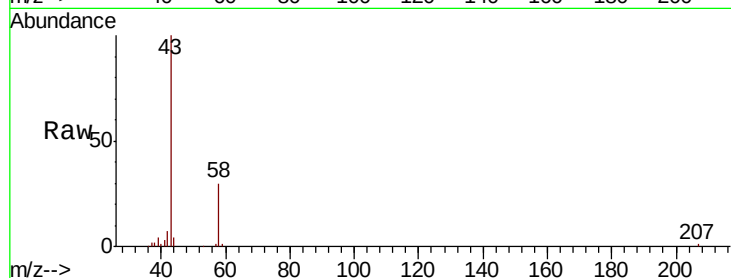
ClientSampleId :

Tot Ion: 43 Resp: 92446

Ion Ratio Lower Upper

43 100

58 29.7 25.1 37.7



#18

Methyl Acetate

Concen: 0.870 ug/l

RT: 4.29 min Scan# 783

Delta R.T. 0.00 min

Lab File: VN060789.D

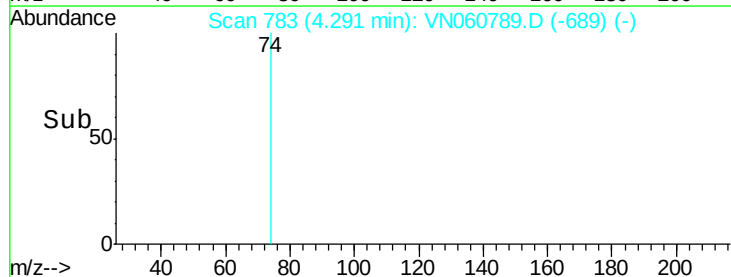
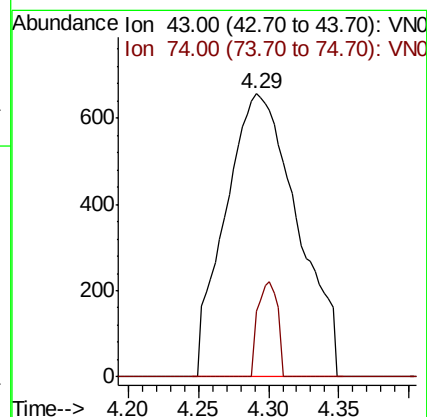
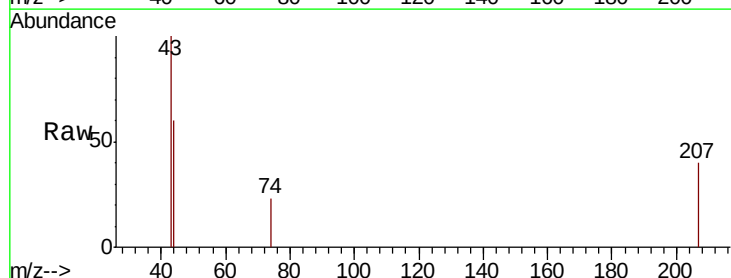
Acq: 31 Mar 2020 16:28

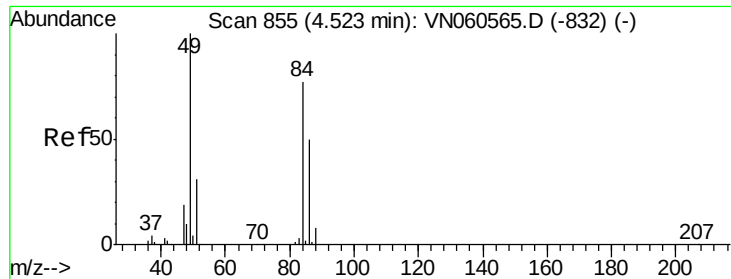
Tgt Ion: 43 Resp: 2335

Ion Ratio Lower Upper

43 100

74 9.2 17.5 26.3#

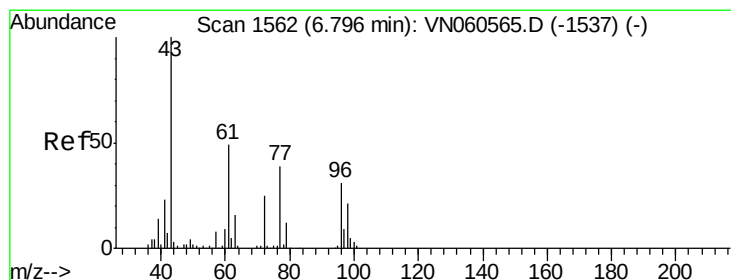
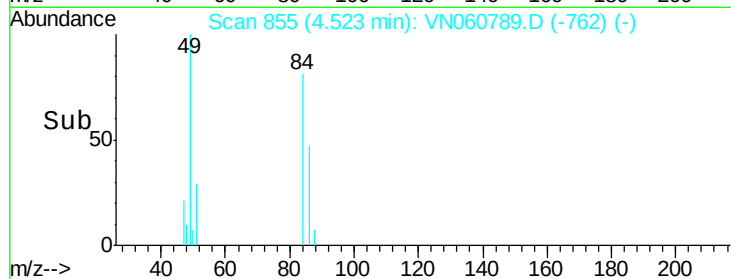
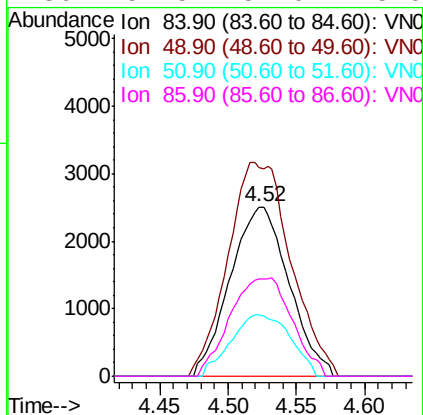
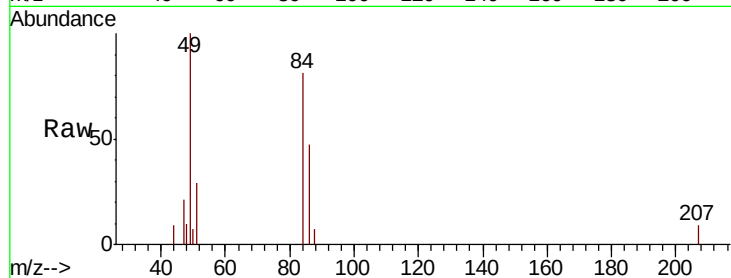




#20
Methvlene Chloride
Concen: 3.204 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN060789.D
Acq: 31 Mar 2020 16:28

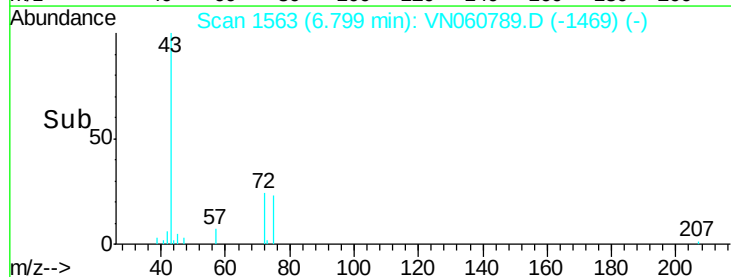
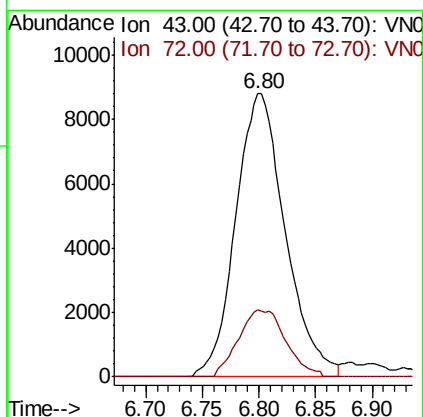
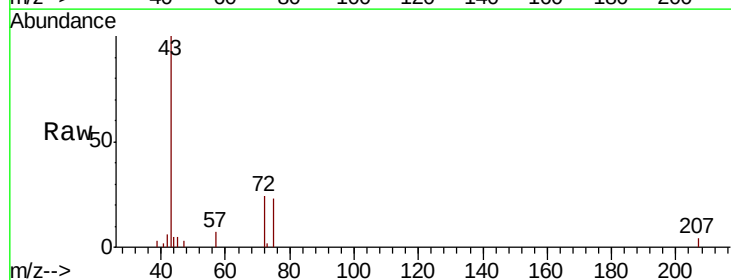
Instrument :
MSVOA_N
ClientSampleId :

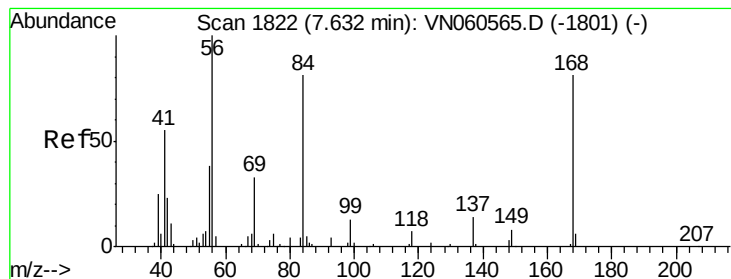
Tot Ion:	84	Resp:	7518
Ion	Ratio	Lower	Upper
84	100		
49	122.9	103.3	154.9
51	36.1	31.6	47.4
86	57.5	52.0	78.0



#25
2-Butanone
Concen: 17.352 ug/l
RT: 6.80 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VN060789.D
Acq: 31 Mar 2020 16:28

Tgt Ion:	43	Resp:	26780
Ion	Ratio	Lower	Upper
43	100		
72	23.8	20.4	30.6





#31

Cyclohexane

Concen: 0.986 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.01 min

Lab File: VN060789.D

Acq: 31 Mar 2020 16:28

Instrument :
MSVOA_N
ClientSampled :

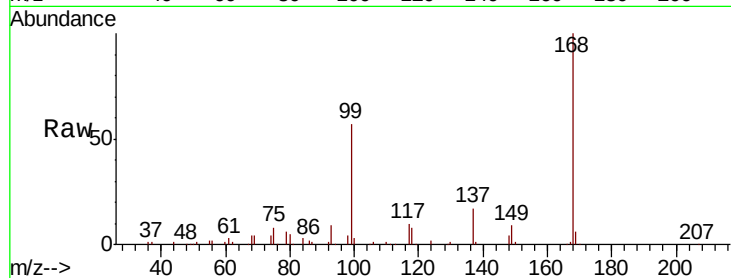
Tot Ion: 56 Resp: 4276

Ion Ratio Lower Upper

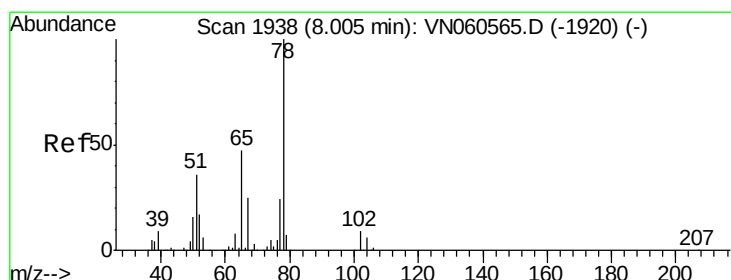
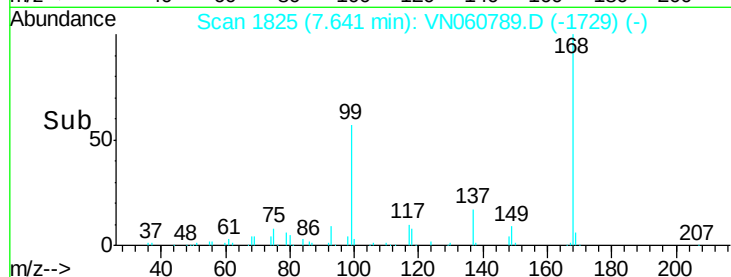
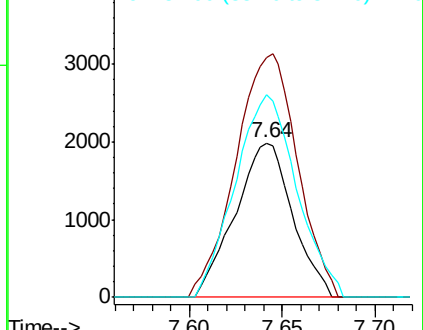
56 100

69 155.0 26.6 40.0#

84 130.8 64.3 96.5#



Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 47.939 ug/l

RT: 8.00 min Scan# 1937

Delta R.T. -0.00 min

Lab File: VN060789.D

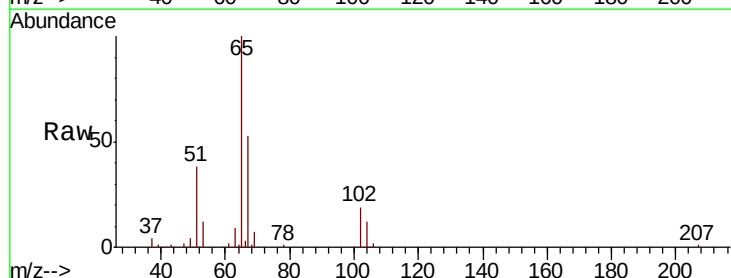
Acq: 31 Mar 2020 16:28

Tgt Ion: 65 Resp: 129076

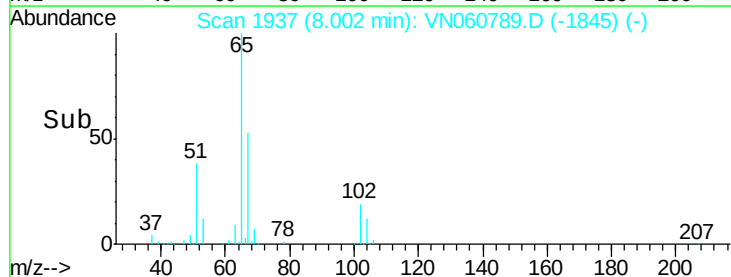
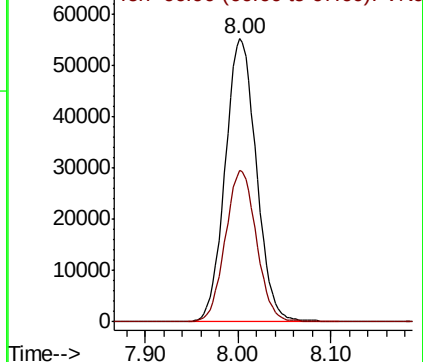
Ion Ratio Lower Upper

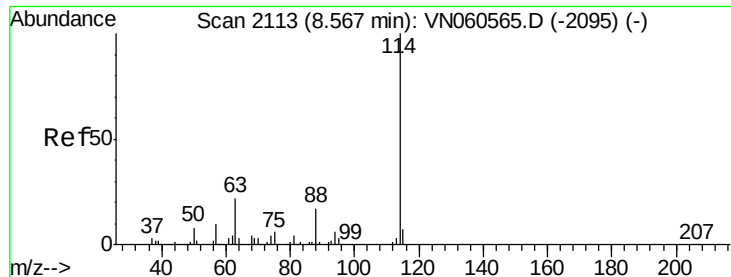
65 100

67 53.3 0.0 107.6



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

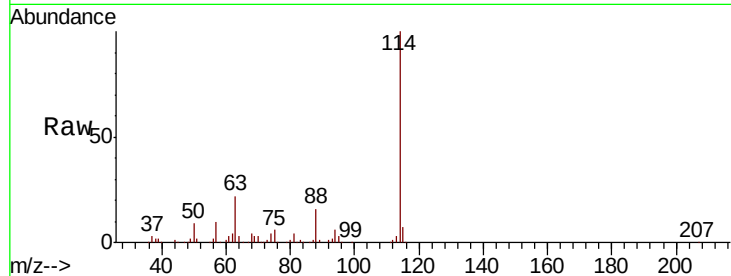




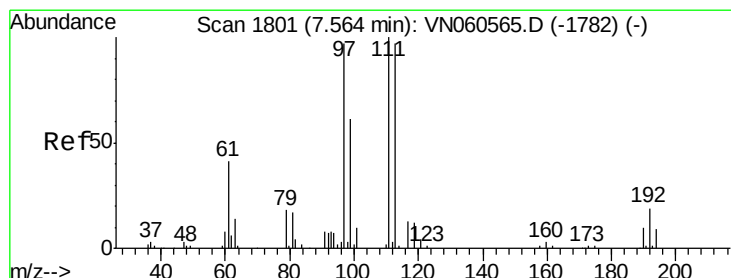
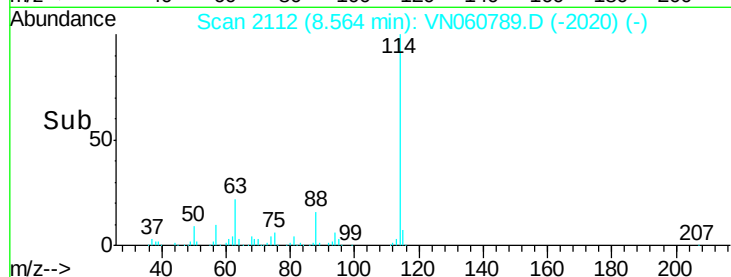
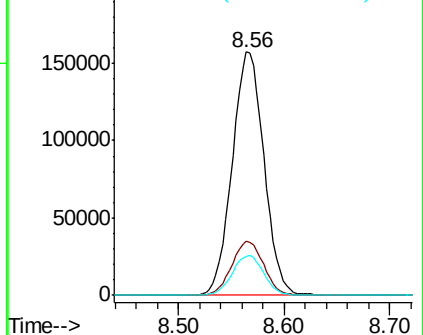
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.56 min Scan# 2112
 Delta R.T. -0.00 min
 Lab File: VN060789.D
 Acq: 31 Mar 2020 16:28

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	22.1	0.0	43.8
88	16.2	0.0	33.0

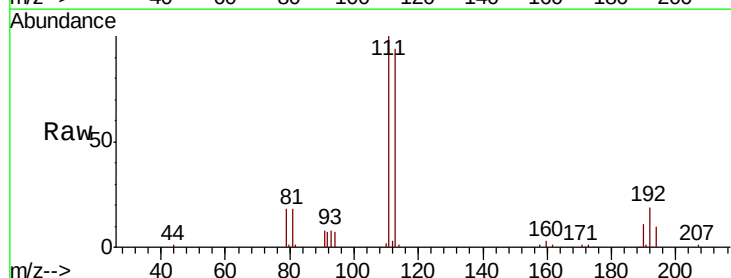


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

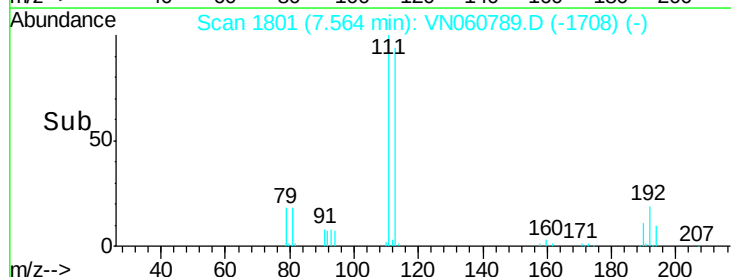
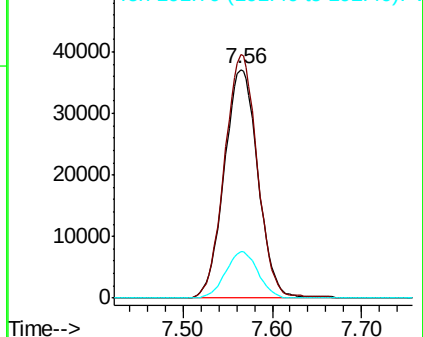


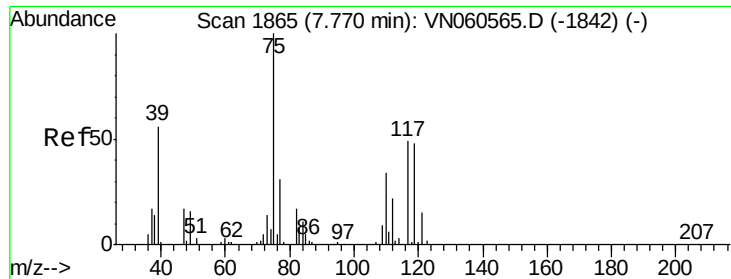
#35
 Dibromofluoromethane
 Concen: 48.837 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. 0.00 min
 Lab File: VN060789.D
 Acq: 31 Mar 2020 16:28

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.4	82.9	124.3
192	19.6	15.8	23.8



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

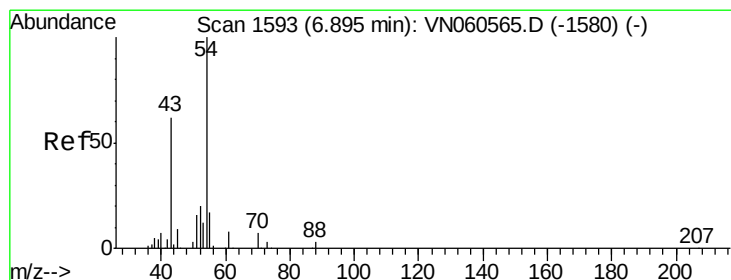
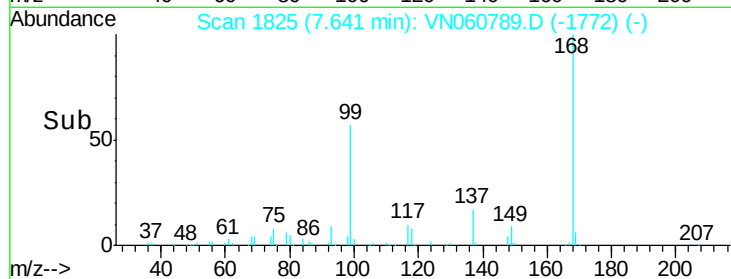
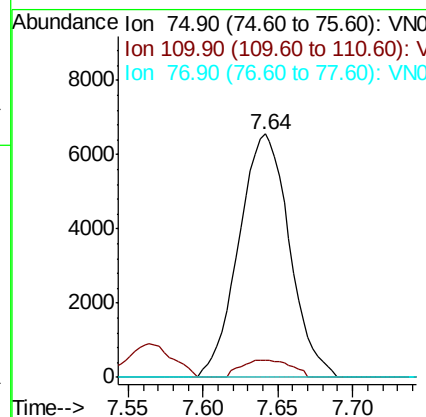
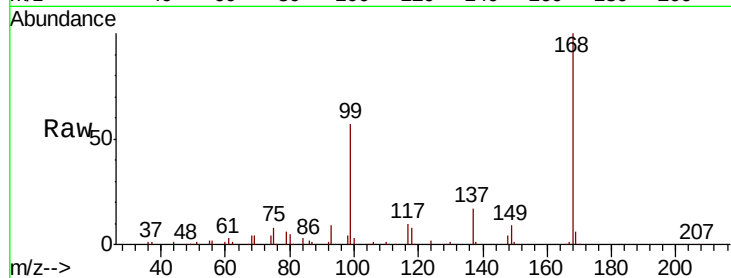




#36
 1,1-Dichloropropene
 Concen: 4.854 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060789.D
 Acq: 31 Mar 2020 16:28

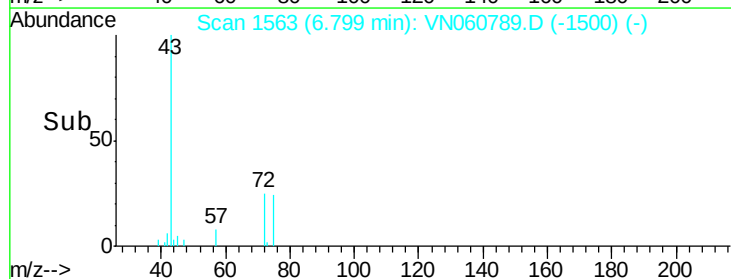
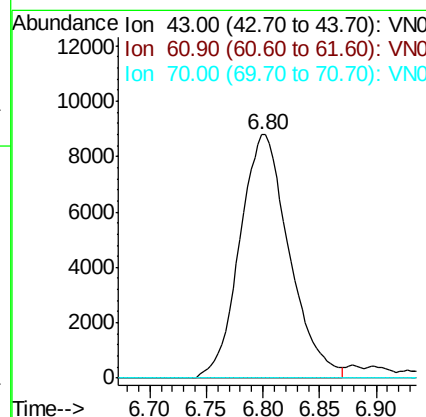
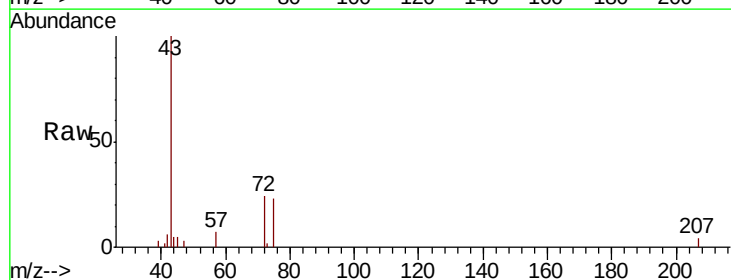
Instrument :
 MSVOA_N
 ClientSampleId :

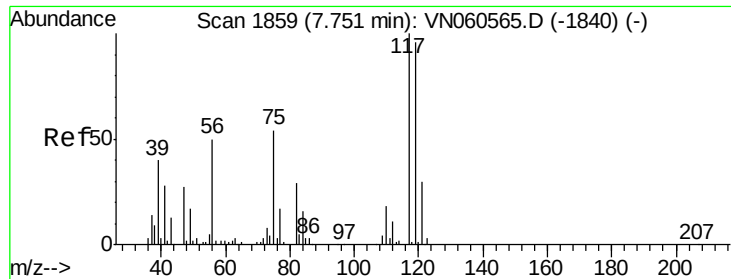
Tot Ion	Ratio	Lower	Upper
75	100		
110	7.0	16.9	50.6#
77	0.0	24.6	36.8#



#37
 Ethyl Acetate
 Concen: 7.793 ug/l
 RT: 6.80 min Scan# 1563
 Delta R.T. -0.10 min
 Lab File: VN060789.D
 Acq: 31 Mar 2020 16:28

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	10.6	15.8#
70	0.0	7.9	11.9#

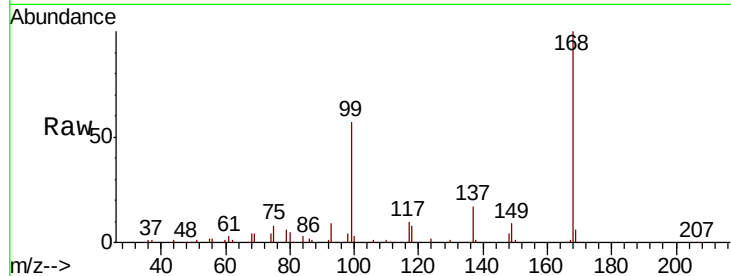




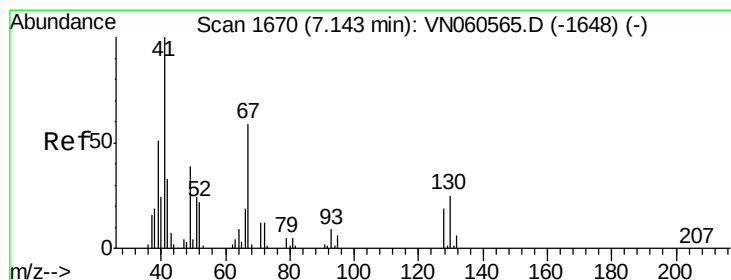
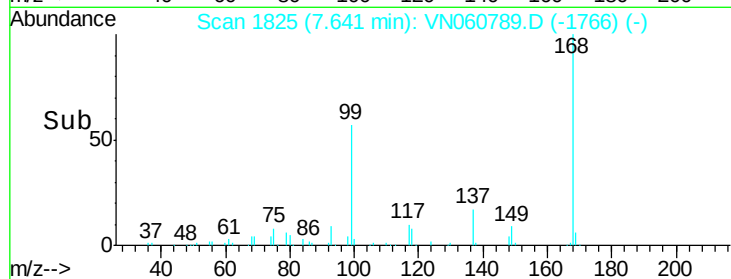
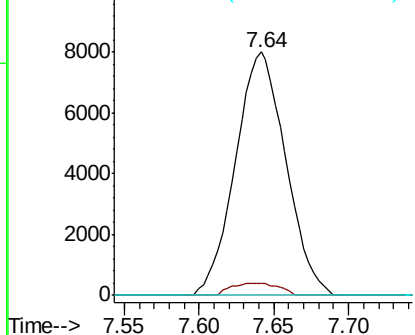
#38
Carbon Tetrachloride
Concen: 6.580 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.11 min
Lab File: VN060789.D
Acq: 31 Mar 2020 16:28

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 18756
Ion Ratio Lower Upper
117 100
119 5.1 76.2 114.2#
121 0.0 23.7 35.5#

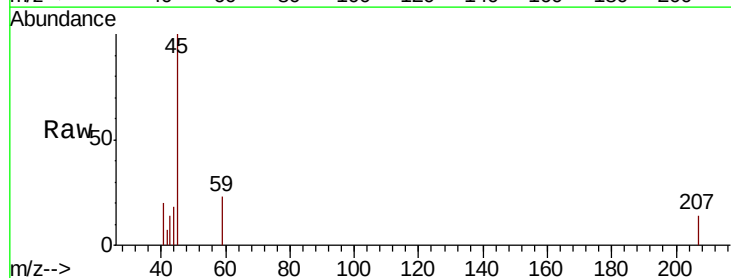


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

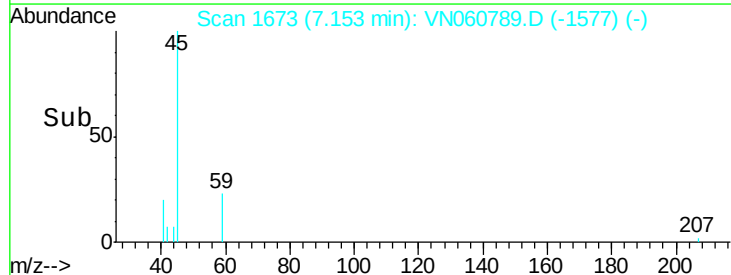
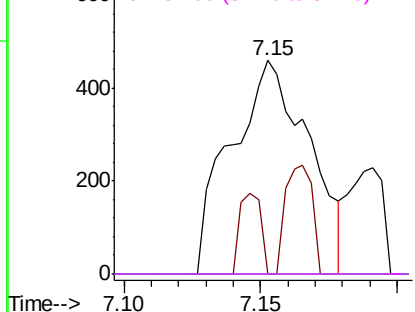


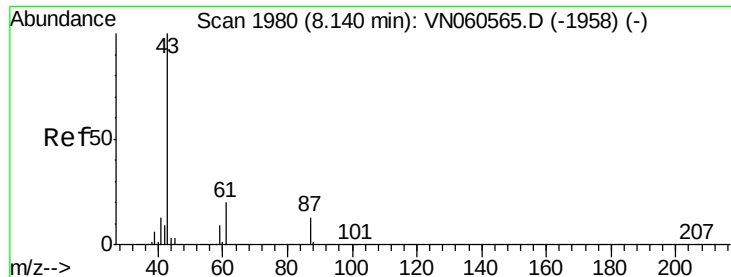
#41
Methacrylonitrile
Concen: 0.621 ug/l
RT: 7.15 min Scan# 1673
Delta R.T. 0.01 min
Lab File: VN060789.D
Acq: 31 Mar 2020 16:28

Tgt Ion: 41 Resp: 911
Ion Ratio Lower Upper
41 100
39 10.3 0.0 0.0#
67 0.0 0.0 0.0
52 0.0 0.0 0.0



Abundance Ion 41.00 (40.70 to 41.70): V
Ion 39.00 (38.70 to 39.70): V
Ion 67.00 (66.70 to 67.70): V
Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 3.227 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060789.D

Acq: 31 Mar 2020 16:28

Instrument :

MSVOA_N

ClientSampled :

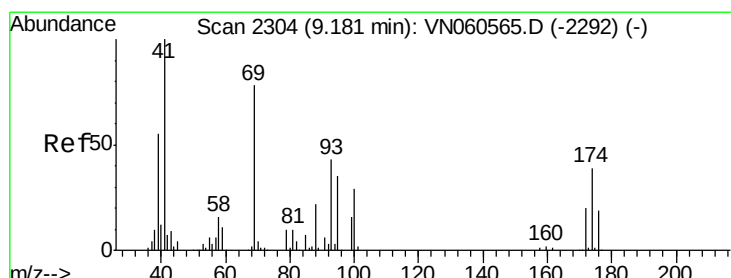
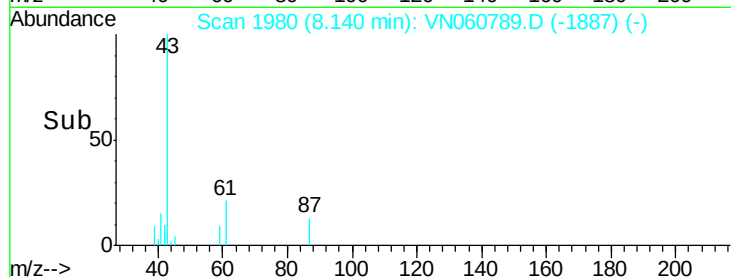
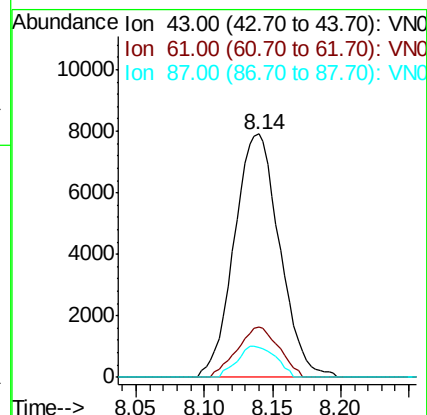
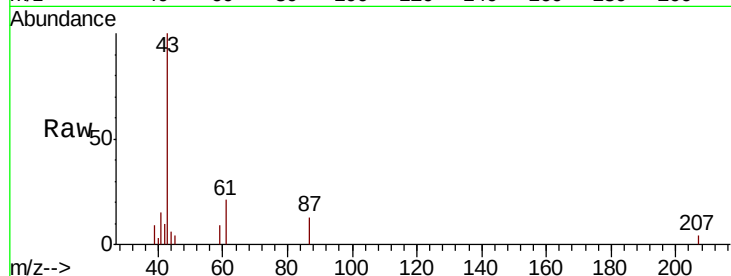
Tot Ion: 43 Resp: 18288

Ion Ratio Lower Upper

43 100

61 19.0 20.7 31.1#

87 10.7 9.8 14.8



#48

Methyl methacrylate

Concen: 1.422 ug/l

RT: 9.16 min Scan# 2298

Delta R.T. -0.02 min

Lab File: VN060789.D

Acq: 31 Mar 2020 16:28

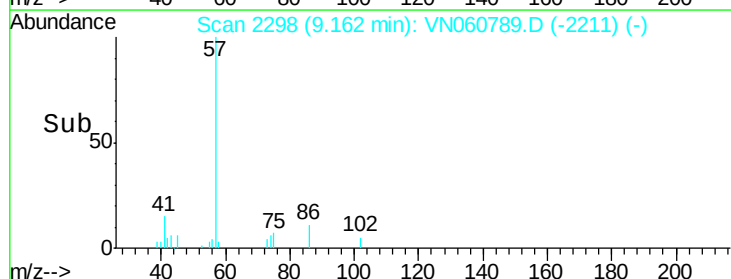
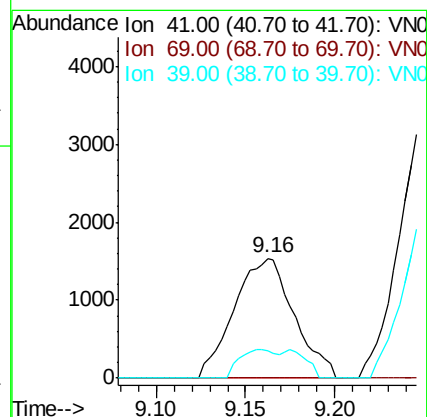
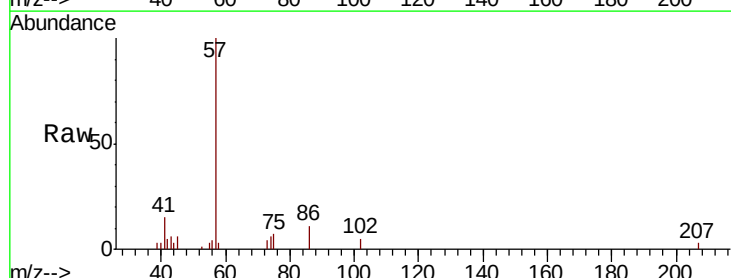
Tgt Ion: 41 Resp: 3588

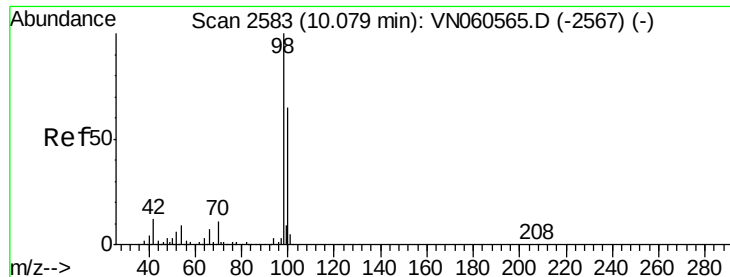
Ion Ratio Lower Upper

41 100

69 0.0 65.4 98.0#

39 14.9 44.0 66.0#





#50

Toluene-d8

Concen: 50.367 ug/l

RT: 10.08 min Scan# 2582

Delta R.T. -0.00 min

Lab File: VN060789.D

Acq: 31 Mar 2020 16:28

Instrument :

MSVOA_N

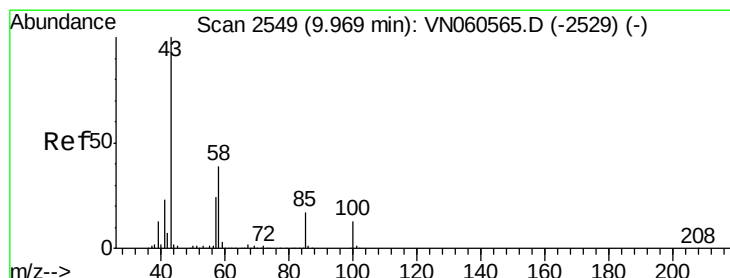
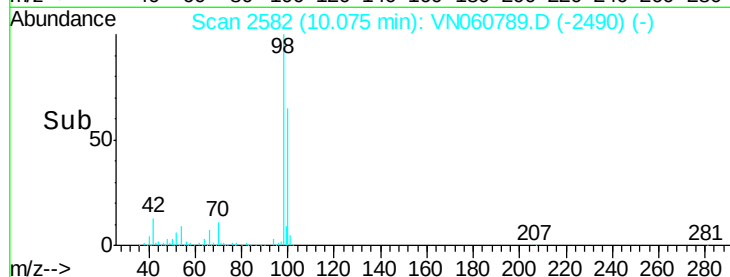
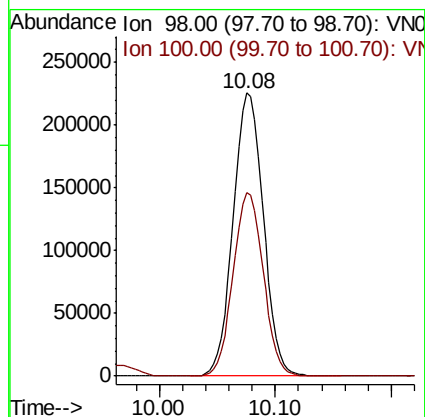
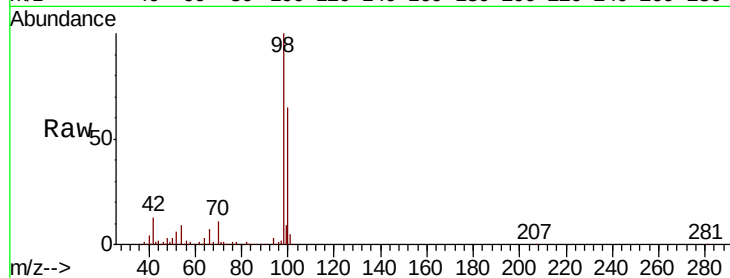
ClientSampled :

Tot Ion: 98 Resp: 408561

Ion Ratio Lower Upper

98 100

100 64.6 51.8 77.8



#51

4-Methyl-2-Pentanone

Concen: 35.601 ug/l

RT: 9.97 min Scan# 2548

Delta R.T. -0.00 min

Lab File: VN060789.D

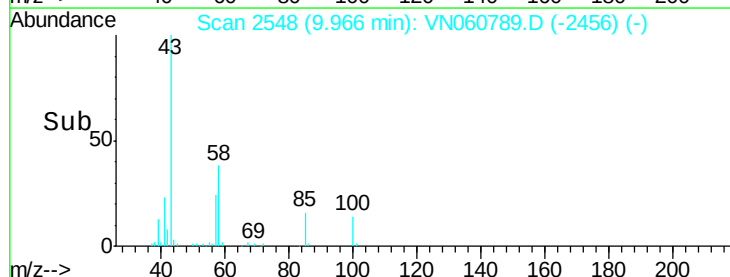
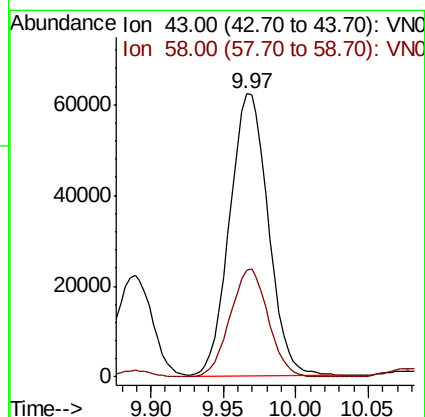
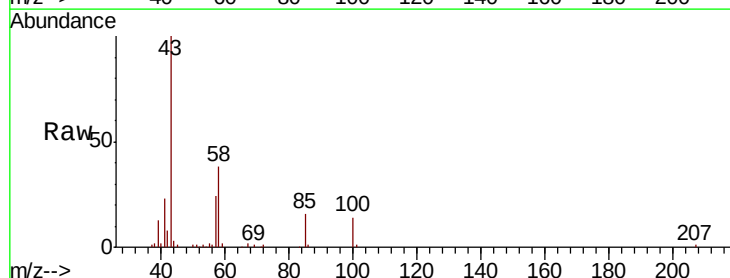
Acq: 31 Mar 2020 16:28

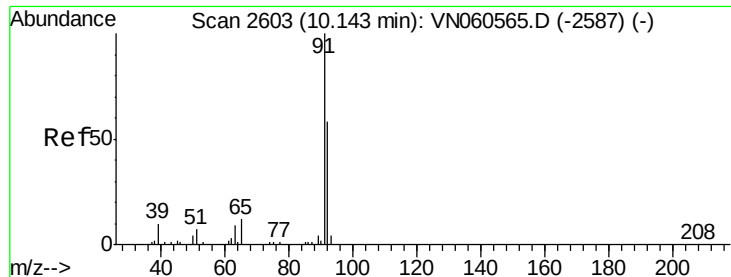
Tgt Ion: 43 Resp: 114809

Ion Ratio Lower Upper

43 100

58 37.7 30.8 46.2





#52

Toluene

Concen: 22.475 ug/l

RT: 10.14 min Scan# 2603

Delta R.T. 0.00 min

Lab File: VN060789.D

Acq: 31 Mar 2020 16:28

Instrument :

MSVOA_N

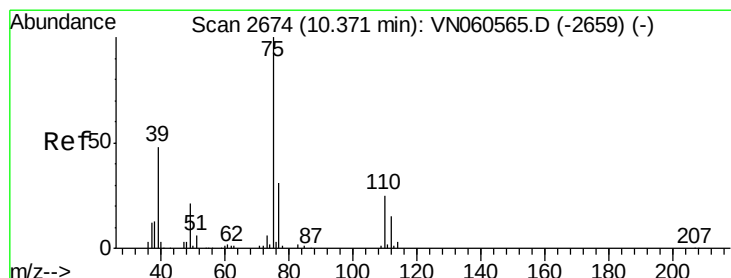
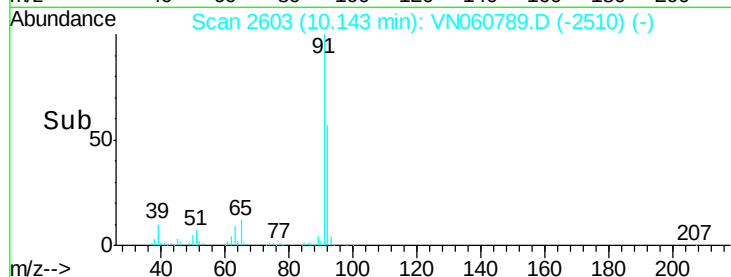
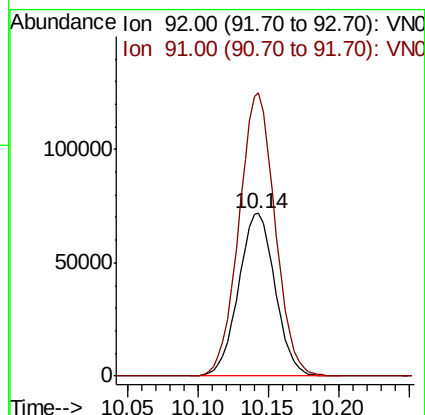
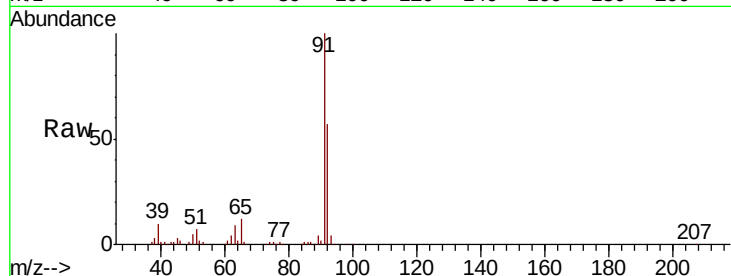
ClientSampled :

Tot Ion: 92 Resp: 130309

Ion Ratio Lower Upper

92 100

91 172.1 137.6 206.4



#53

t-1,3-Dichloropropene

Concen: 0.388 ug/l

RT: 10.14 min Scan# 2603

Delta R.T. -0.23 min

Lab File: VN060789.D

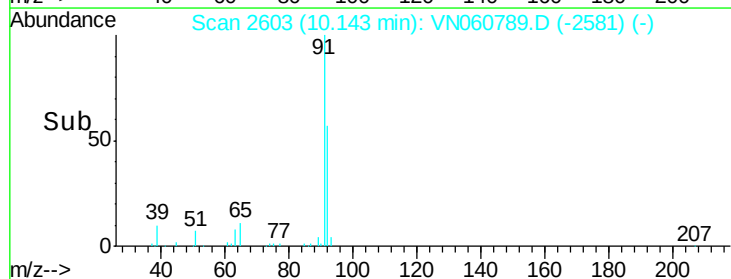
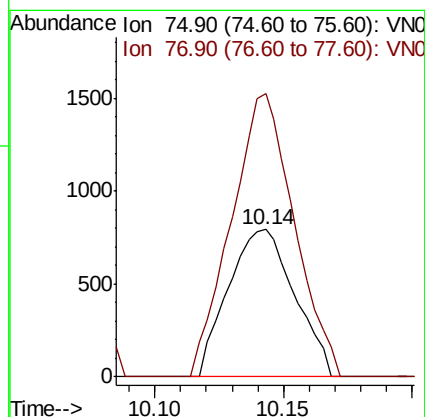
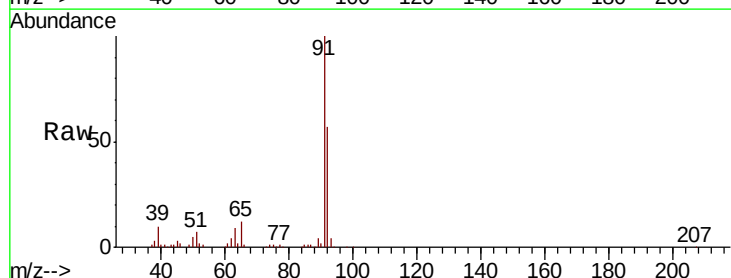
Acq: 31 Mar 2020 16:28

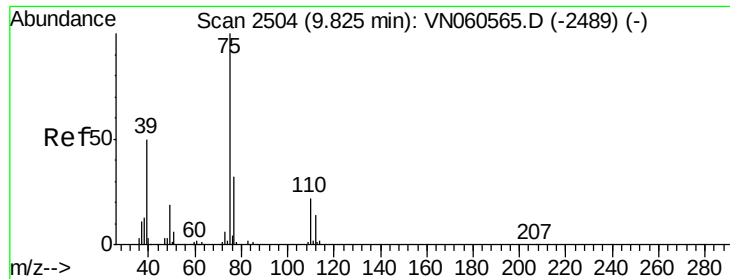
Tgt Ion: 75 Resp: 1417

Ion Ratio Lower Upper

75 100

77 192.1 25.1 37.7#





#54

cis-1,3-Dichloropropene

Concen: 4.529 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060789.D

Acq: 31 Mar 2020 16:28

Instrument :

MSVOA_N

ClientSampled :

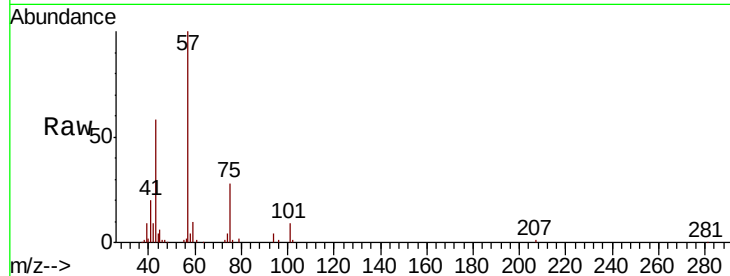
Tot Ion: 75 Resp: 18163

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#

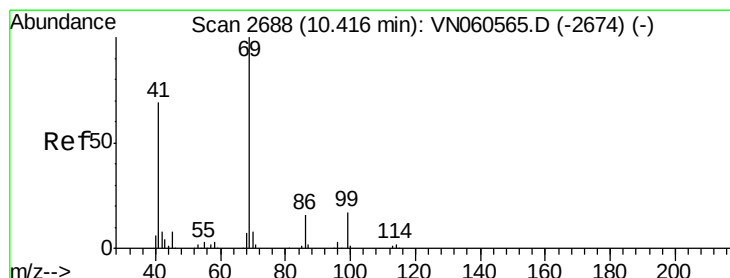
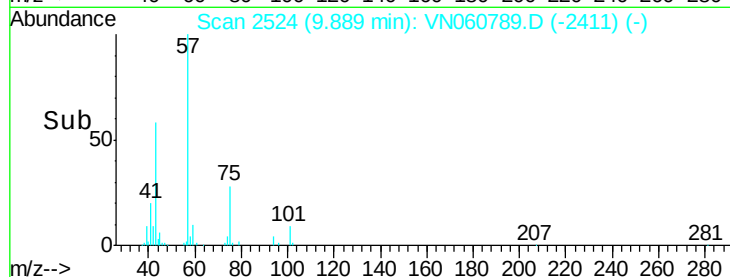
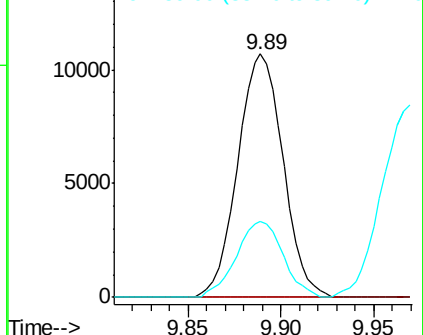
39 31.1 40.2 60.4#



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: 2.906 ug/l

RT: 10.34 min Scan# 2664

Delta R.T. -0.08 min

Lab File: VN060789.D

Acq: 31 Mar 2020 16:28

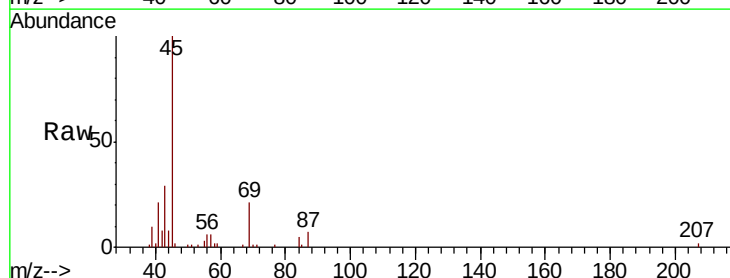
Tgt Ion: 69 Resp: 10107

Ion Ratio Lower Upper

69 100

41 108.1 55.4 83.2#

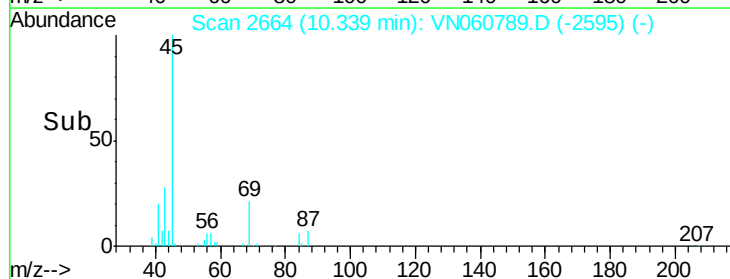
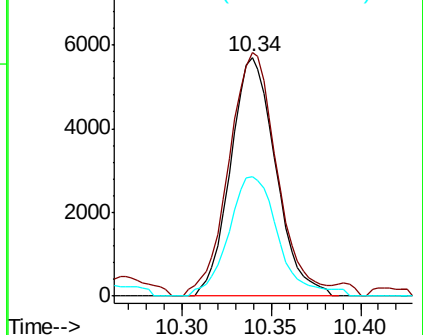
39 55.0 29.4 44.0#

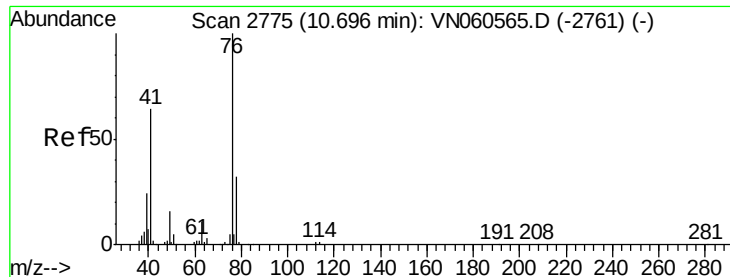


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

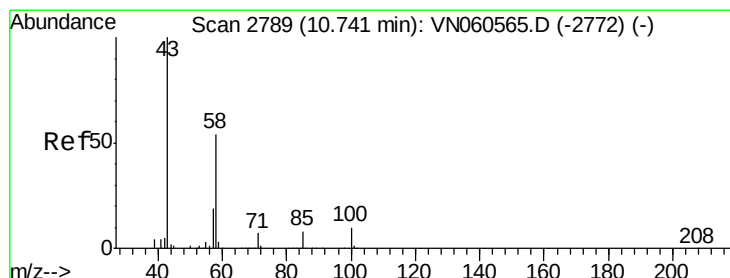
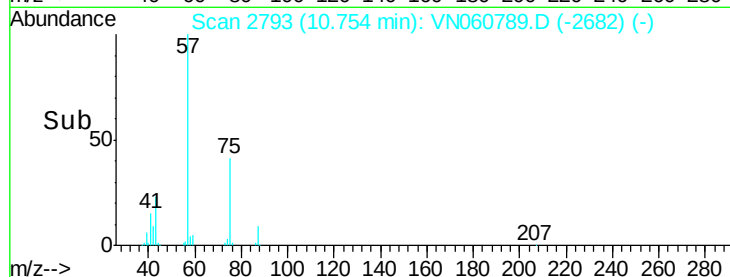
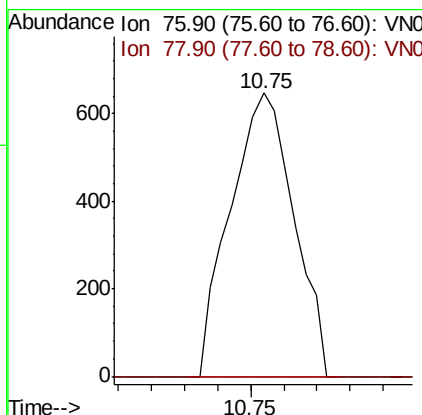
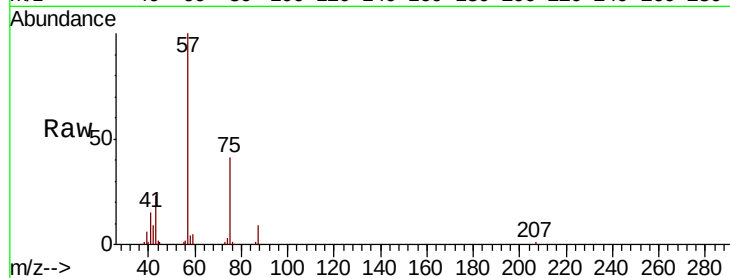




#57
 1,3-Dichloropropane
 Concen: 0.223 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN060789.D
 Acq: 31 Mar 2020 16:28

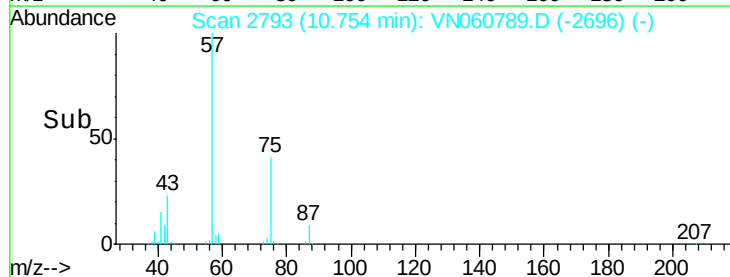
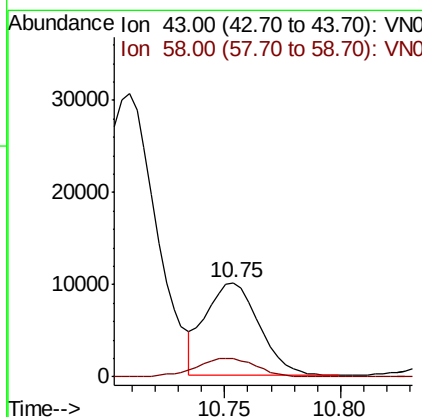
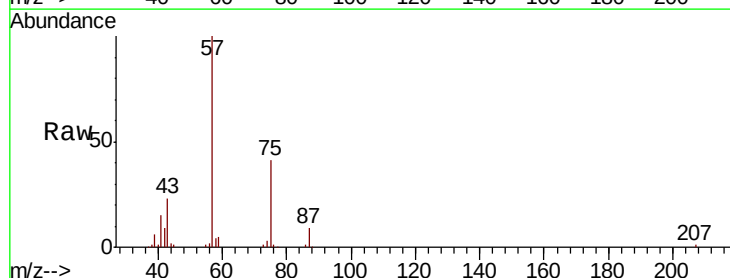
Instrument :
 MSVOA_N
 ClientSampleId :

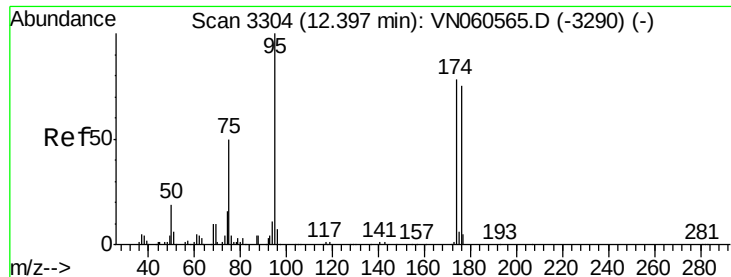
Tot Ion: 76 Resp: 863
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.6#



#59
 2-Hexanone
 Concen: 6.909 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.01 min
 Lab File: VN060789.D
 Acq: 31 Mar 2020 16:28

Tgt Ion: 43 Resp: 16049
 Ion Ratio Lower Upper
 43 100
 58 22.5 26.7 80.1#





#62

4-Bromofluorobenzene

Concen: 52.191 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060789.D

Acq: 31 Mar 2020 16:28

Instrument :

MSVOA_N

ClientSampleId :

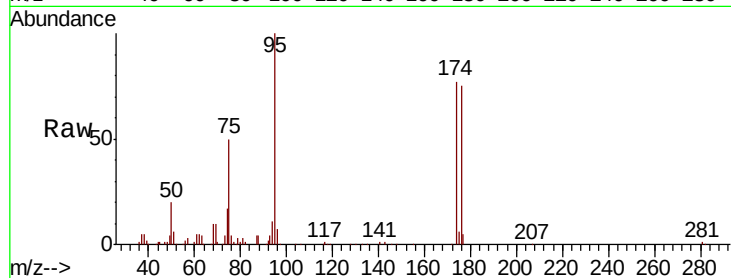
Tot Ion: 95 Resp: 155156

Ion Ratio Lower Upper

95 100

174 77.3 0.0 157.6

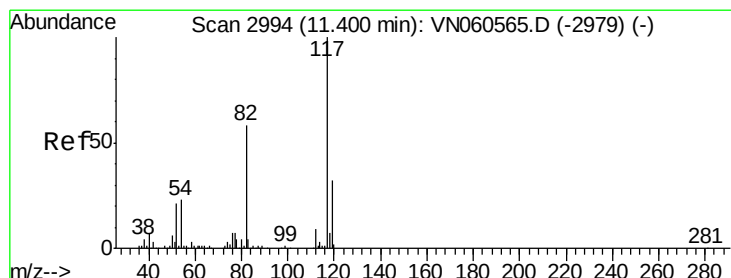
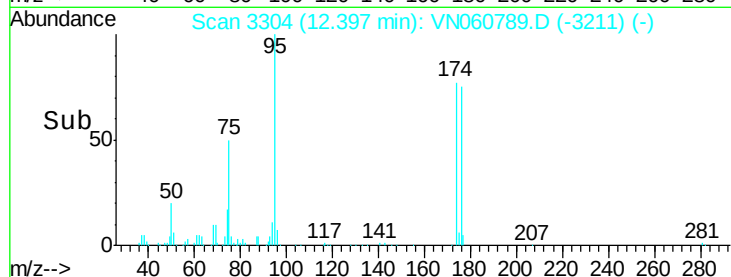
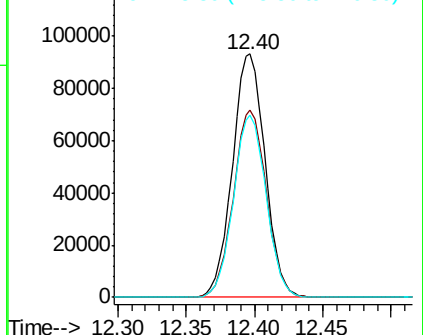
176 74.7 0.0 150.6



Abundance Ion 94.90 (94.60 to 95.60): VN060789.D (-3211) (-)

Ion 173.80 (173.50 to 174.50): VN060789.D (-3211) (-)

Ion 175.80 (175.50 to 176.50): VN060789.D (-3211) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060789.D

Acq: 31 Mar 2020 16:28

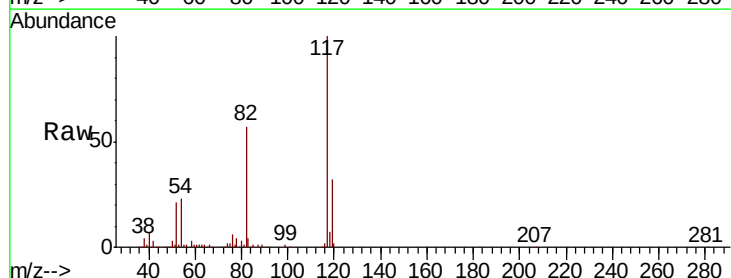
Tgt Ion: 117 Resp: 311149

Ion Ratio Lower Upper

117 100

82 57.2 46.7 70.1

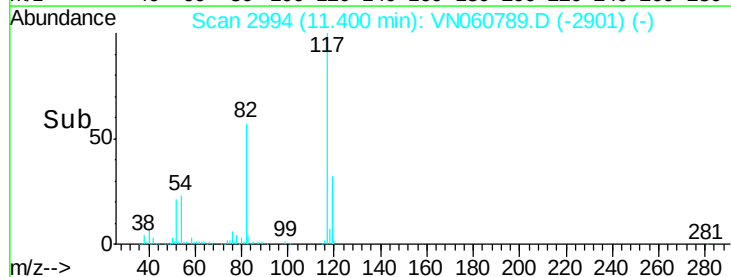
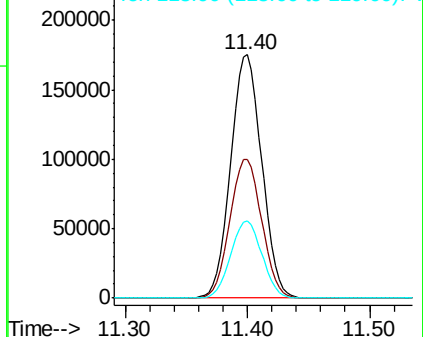
119 31.7 25.5 38.3

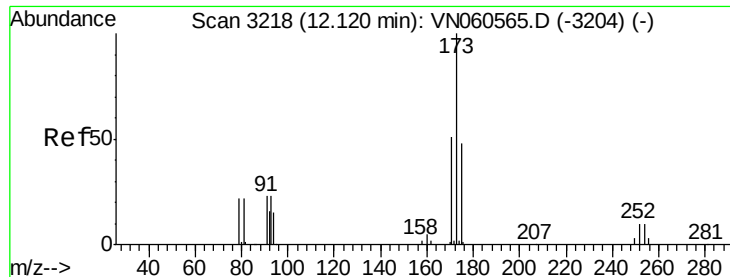


Abundance Ion 116.90 (116.60 to 117.60): VN060789.D (-2901) (-)

Ion 82.00 (81.70 to 82.70): VN060789.D (-2901) (-)

Ion 118.90 (118.60 to 119.60): VN060789.D (-2901) (-)

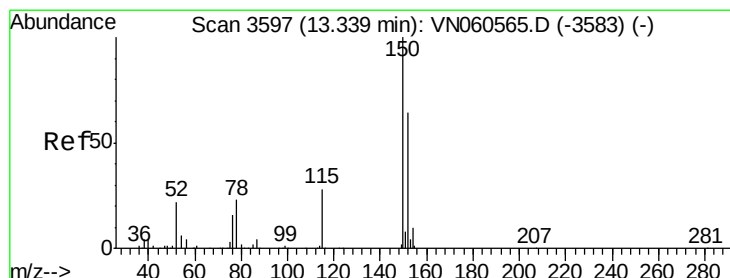
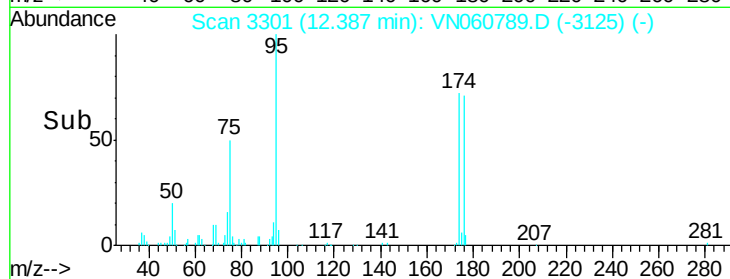
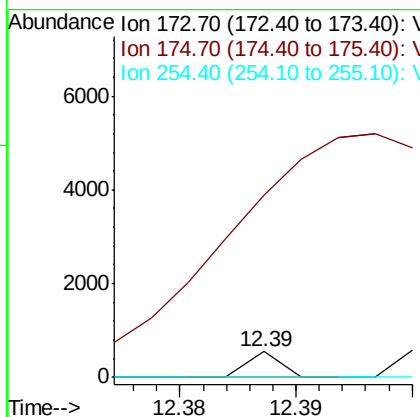
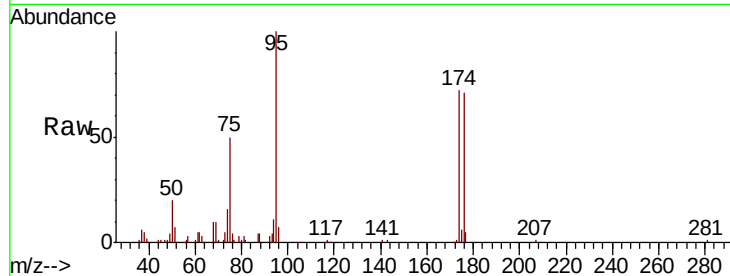




#71
Bromoform
Concen: 1.736 ug/l
RT: 12.39 min Scan# 3301
Delta R.T. 0.27 min
Lab File: VN060789.D
Acq: 31 Mar 2020 16:28

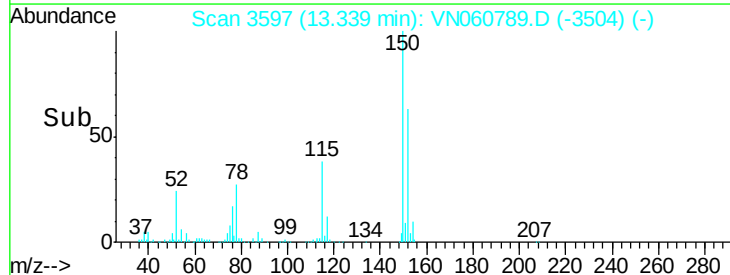
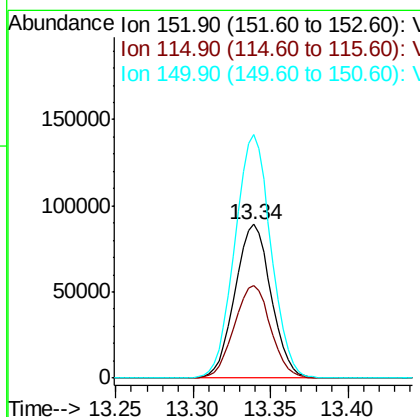
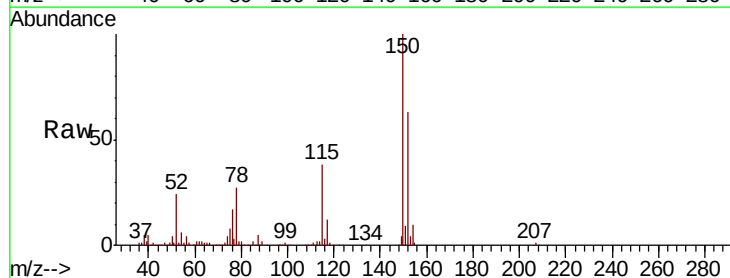
Instrument :
MSVOA_N
ClientSampleId :

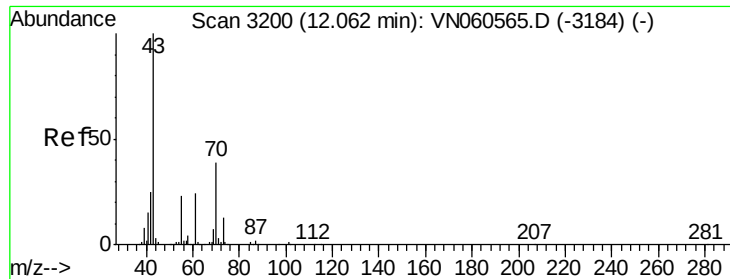
Tot Ion:173 Resp: 106
Ion Ratio Lower Upper
173 100
175 0.0 24.1 72.4#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. 0.00 min
Lab File: VN060789.D
Acq: 31 Mar 2020 16:28

Tgt Ion:152 Resp: 145270
Ion Ratio Lower Upper
152 100
115 60.6 30.2 90.6
150 158.0 0.0 350.2

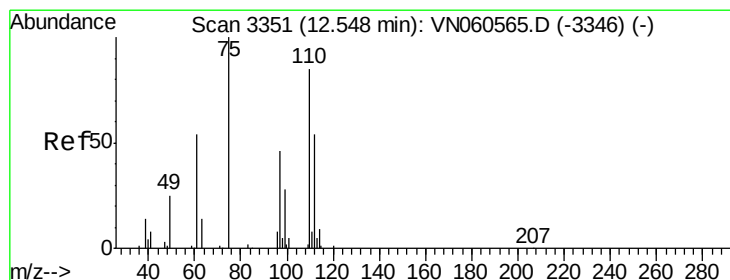
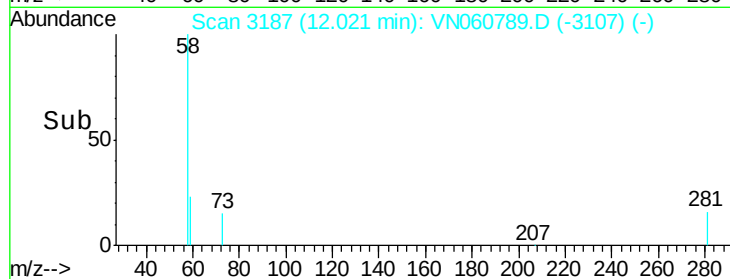
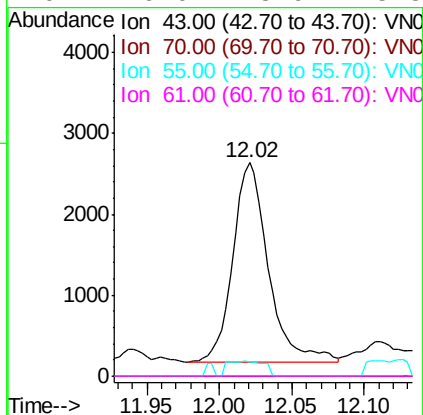
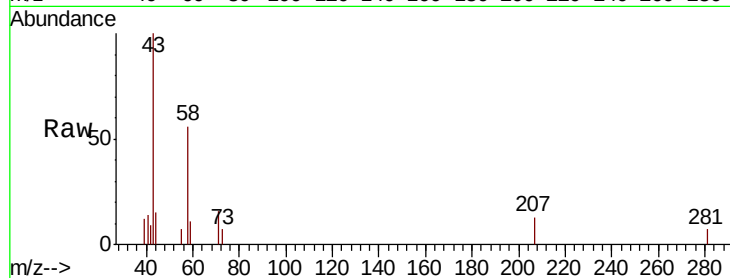




#74
N-amyl acetate
Concen: 0.833 ug/l
RT: 12.02 min Scan# 3187
Delta R.T. -0.04 min
Lab File: VN060789.D
Acq: 31 Mar 2020 16:28

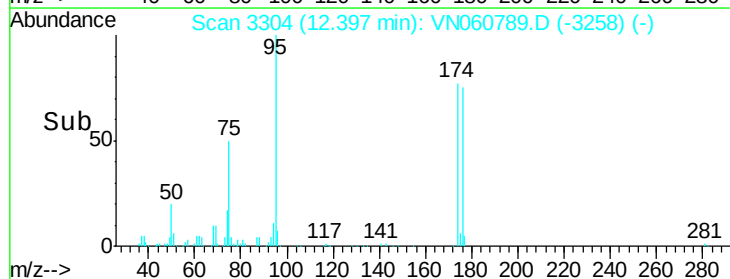
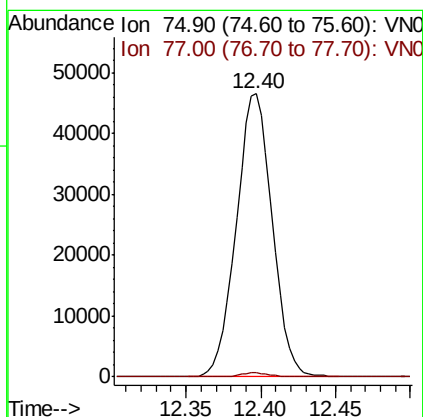
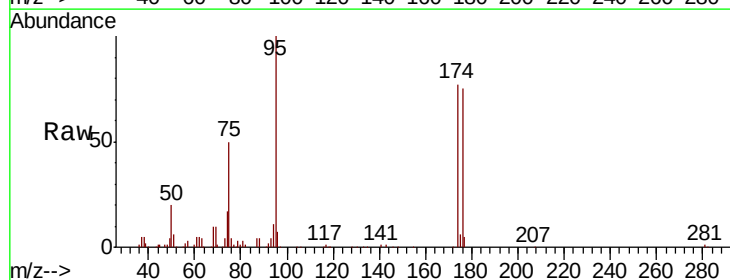
Instrument :
MSVOA_N
ClientSampleId :

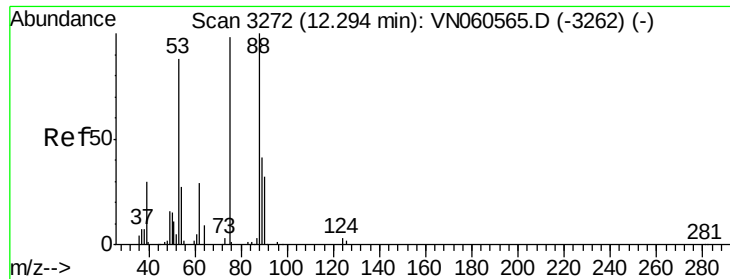
Tot Ion: 43 Resp: 4197
Ion Ratio Lower Upper
43 100
70 0.0 31.1 46.7#
55 7.9 18.6 27.8#
61 0.0 18.9 28.3#



#76
1,2,3-Trichloropropane
Concen: 24.793 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.15 min
Lab File: VN060789.D
Acq: 31 Mar 2020 16:28

Tgt Ion: 75 Resp: 77716
Ion Ratio Lower Upper
75 100
77 1.1 0.0 0.0#

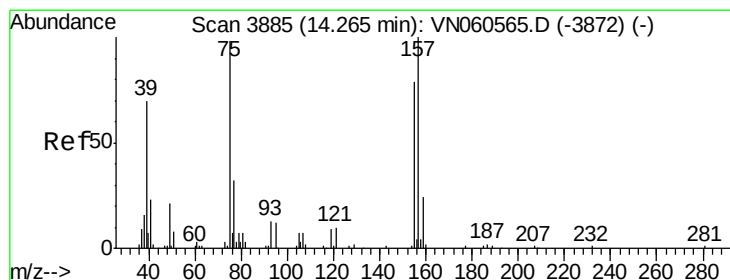
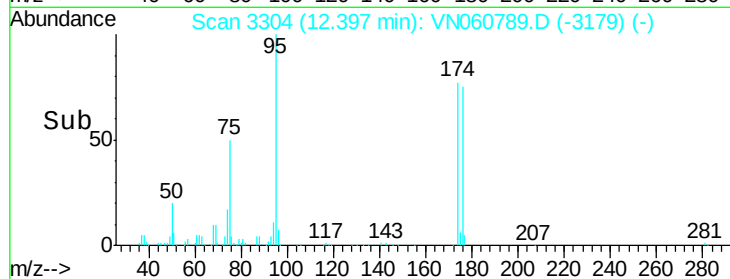
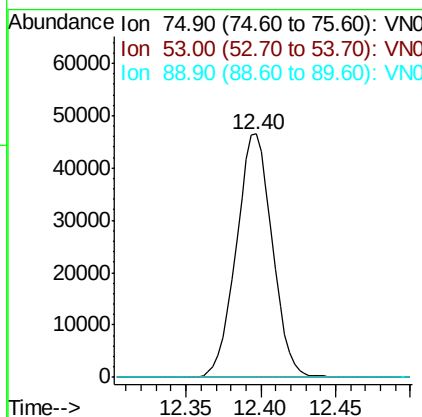
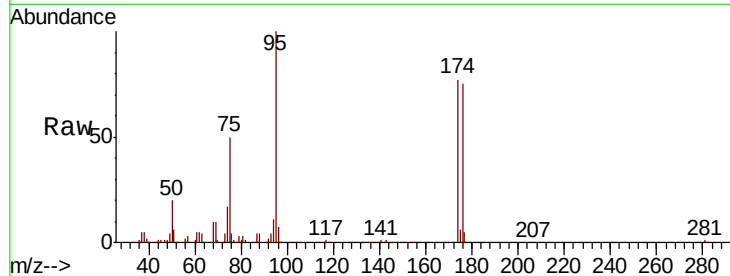




#81
trans-1,4-Dichloro-2-butene
Concen: 63.675 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.10 min
Lab File: VN060789.D
Acq: 31 Mar 2020 16:28

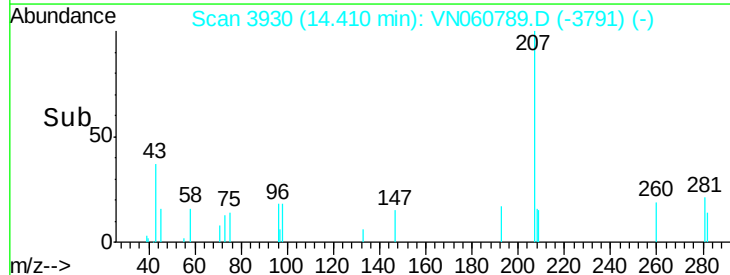
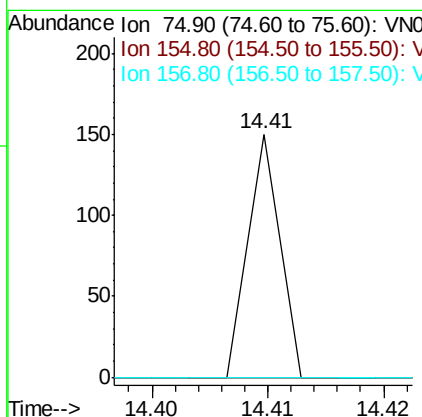
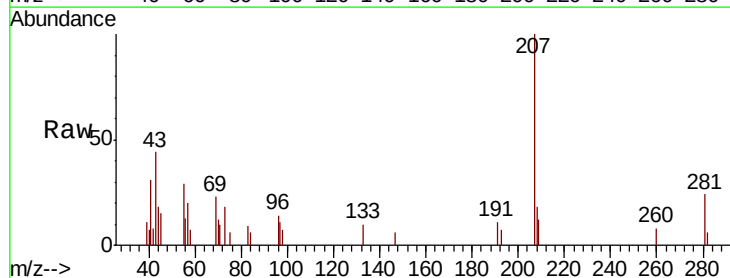
Instrument :
MSVOA_N
ClientSampleId :

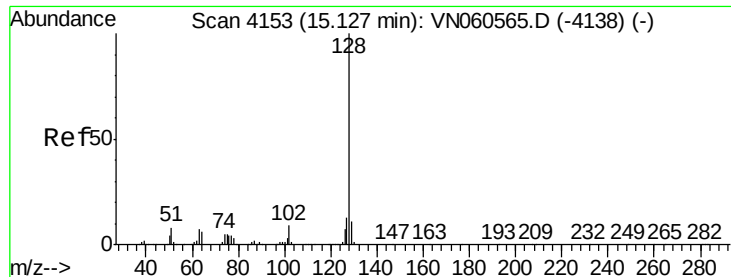
Tot Ion: 75 Resp: 77716
Ion Ratio Lower Upper
75 100
53 0.0 73.0 109.4#
89 0.0 34.8 52.2#



#92
1,2-Dibromo-3-Chloropropane
Concen: Below Cal
RT: 14.41 min Scan# 3930
Delta R.T. 0.15 min
Lab File: VN060789.D
Acq: 31 Mar 2020 16:28

Tgt Ion: 75 Resp: 29
Ion Ratio Lower Upper
75 100
155 0.0 40.7 122.1#
157 0.0 51.5 154.7#

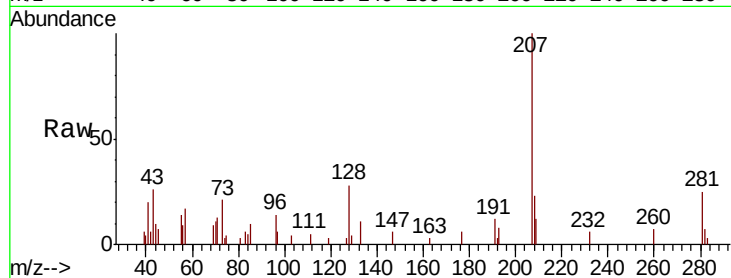




#95
Naphthalene
Concen: 0.273 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. 0.00 min
Lab File: VN060789.D
Acq: 31 Mar 2020 16:28

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	4.2	10.2	15.2#
129	3.0	8.8	13.2#



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

