

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN040820\
 Data File : VN060897.D
 Acq On : 8 Apr 2020 13:47
 Operator : JC/MD
 Sample : PB128091ZHE#01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 09 08:26:38 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	203327	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	343725	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	317789	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	139836	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	130910	46.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.80%	
35) Dibromofluoromethane	7.57	113	100107	48.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.34%	
50) Toluene-d8	10.08	98	420895	49.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.16%	
62) 4-Bromofluorobenzene	12.40	95	154666	49.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.42%	

Target Compounds

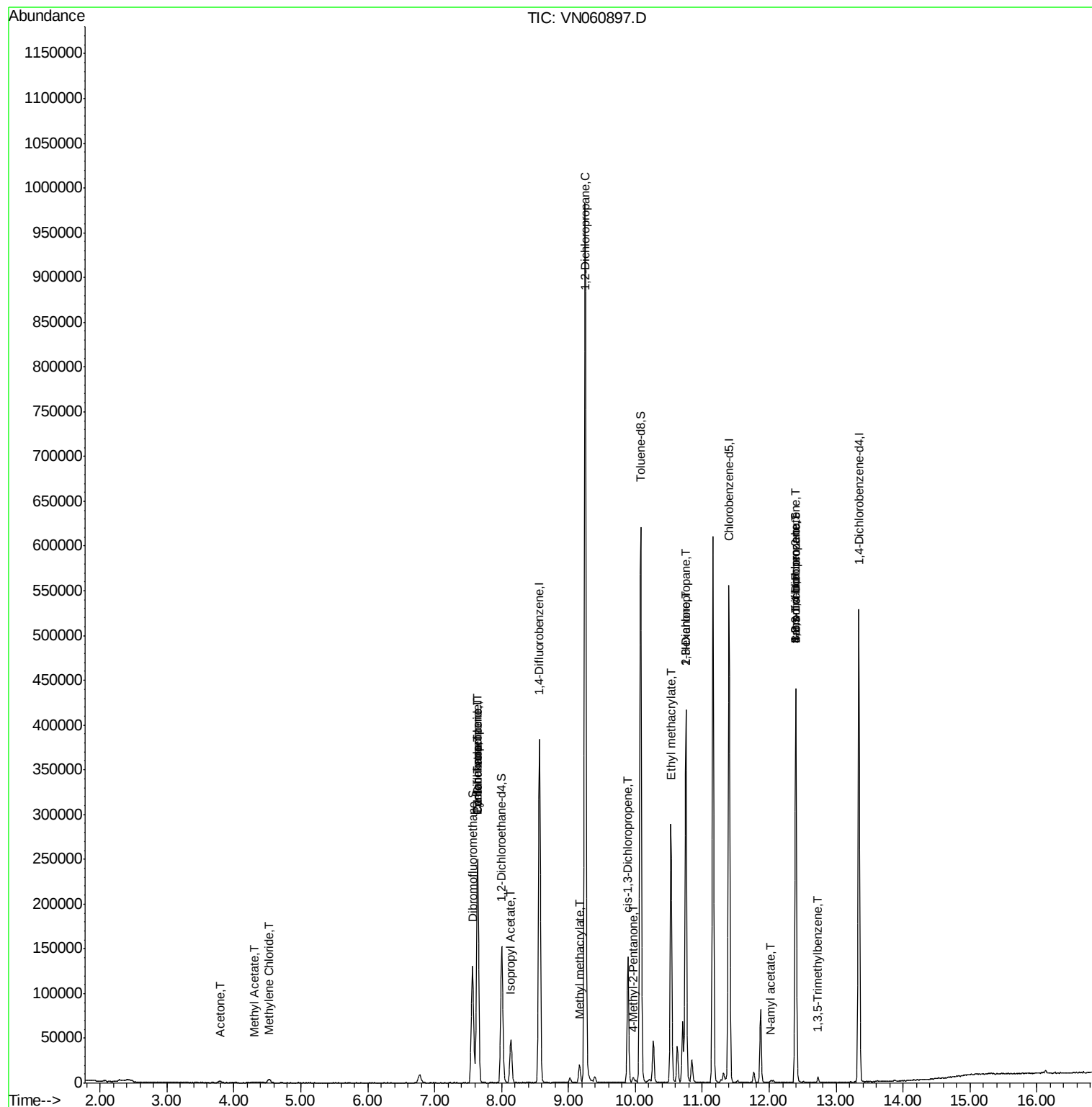
						Qvalue
16) Acetone	3.79	43	3495	3.535	ug/l	90
18) Methyl Acetate	4.29	43	1807	0.649	ug/l #	62
20) Methylene Chloride	4.52	84	3075	1.264	ug/l	93
31) Cyclohexane	7.64	56	4445	0.989	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	16274	4.890	ug/l #	50
38) Carbon Tetrachloride	7.64	117	19053	6.387	ug/l #	16
43) Isopropyl Acetate	8.14	43	60250	10.158	ug/l #	89
45) 1,2-Dichloropropane	9.25	63	1186	0.447	ug/l #	43
48) Methyl methacrylate	9.16	41	2802	1.061	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	4578	1.356	ug/l	91
54) cis-1,3-Dichloropropene	9.89	75	25771	6.140	ug/l #	60
56) Ethyl methacrylate	10.53	69	736	0.202	ug/l #	1
57) 1,3-Dichloropropane	10.75	76	4153	1.025	ug/l #	42
59) 2-Hexanone	10.75	43	62149	25.563	ug/l #	52
71) Bromoform	12.40	173	572	1.972	ug/l #	1
74) N-amyl acetate	12.02	43	2490	0.513	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	77869	25.807	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	3634	0.408	ug/l	91
81) trans-1,4-Dichloro-2-buten	12.40	75	77869	66.280	ug/l #	13

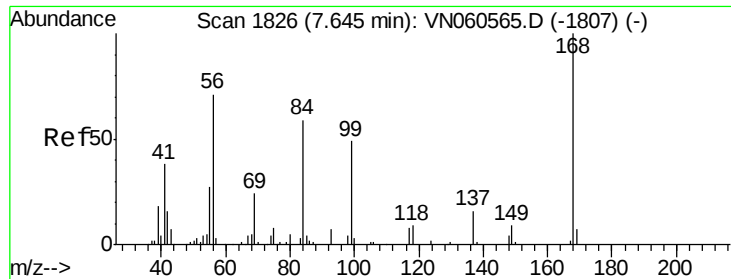
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN060897.D

Acq: 8 Apr 2020 13:47

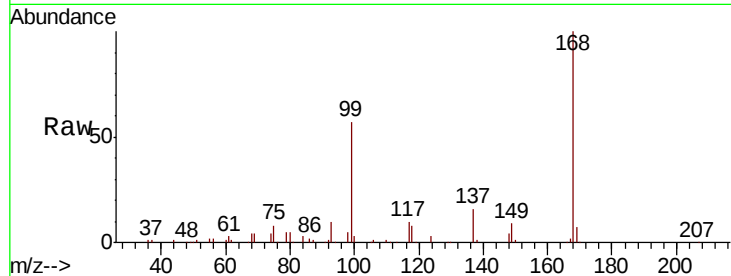
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 203327

Ion Ratio Lower Upper

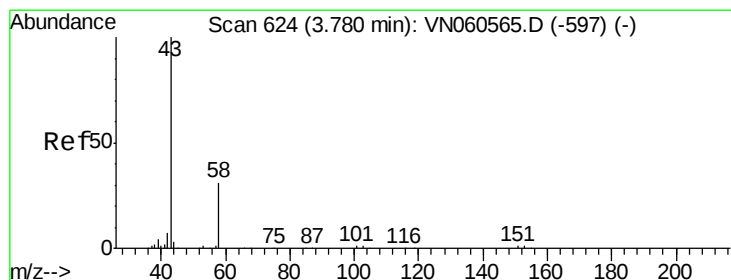
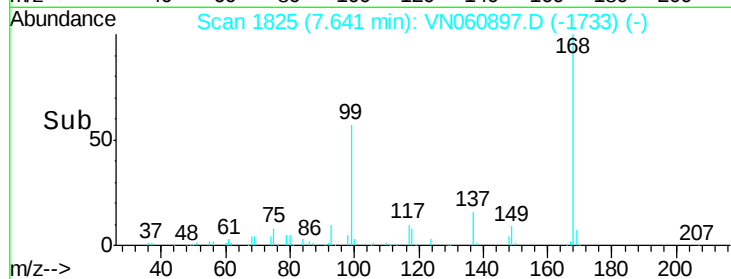
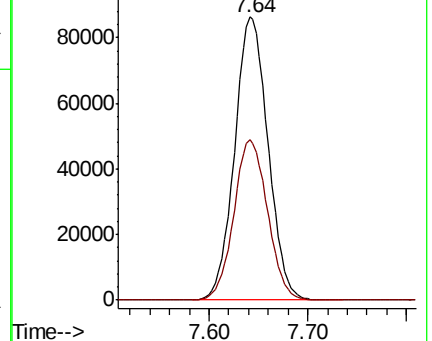
168 100

99 56.6 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 3.535 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN060897.D

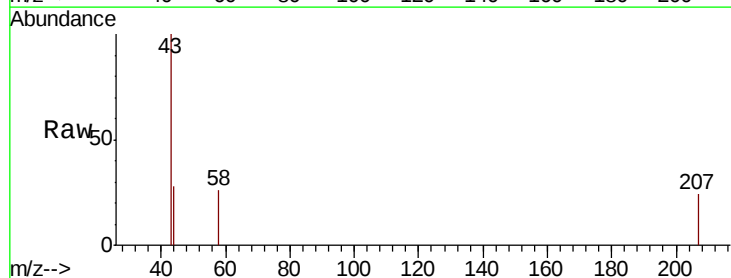
Acq: 8 Apr 2020 13:47

Tgt Ion: 43 Resp: 3495

Ion Ratio Lower Upper

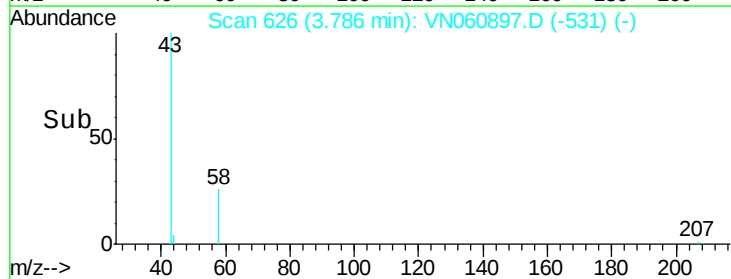
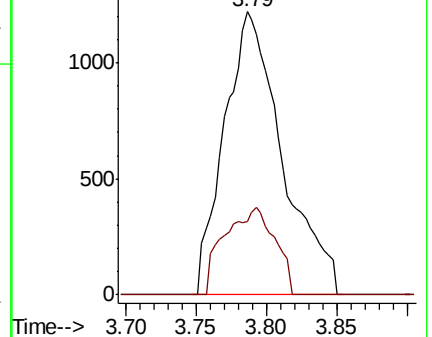
43 100

58 26.0 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

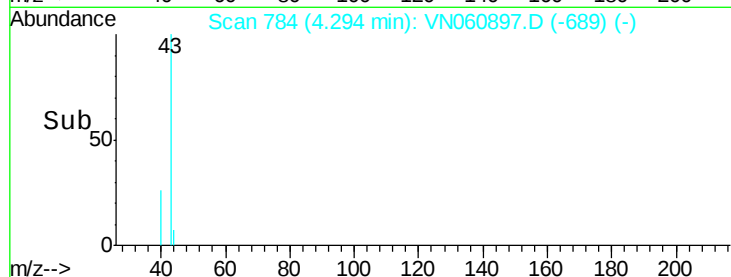
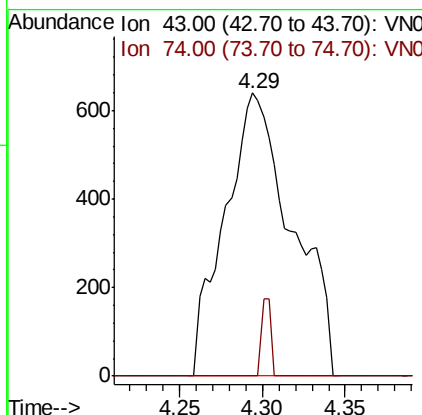
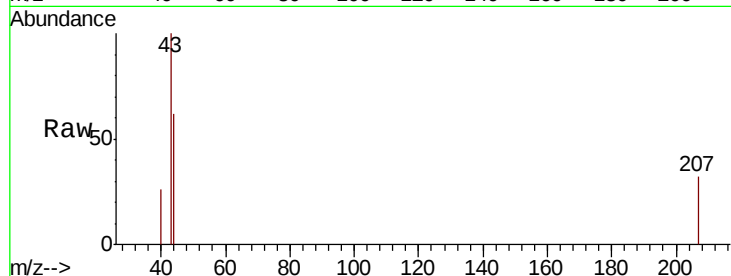




#18
Methyl Acetate
Concen: 0.649 ug/l
RT: 4.29 min Scan# 784
Delta R.T. 0.01 min
Lab File: VN060897.D
Acq: 8 Apr 2020 13:47

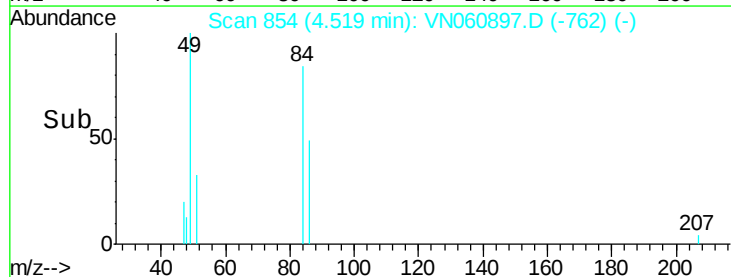
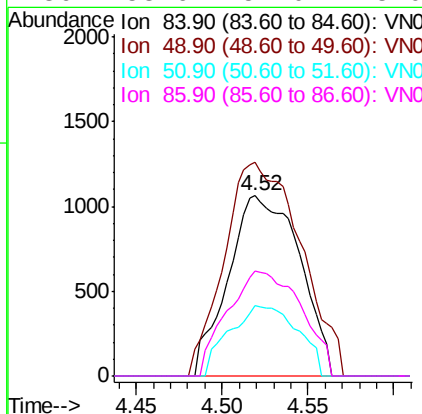
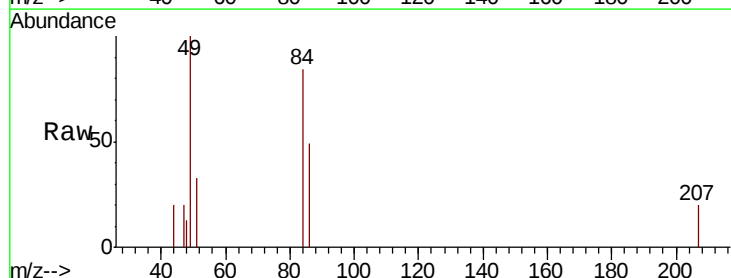
Instrument :
MSVOA_N
ClientSampled :

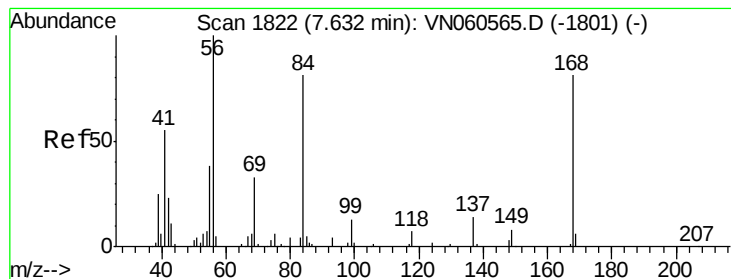
Tot Ion: 43 Resp: 1807
Ion Ratio Lower Upper
43 100
74 3.7 17.5 26.3#



#20
Methylene Chloride
Concen: 1.264 ug/l
RT: 4.52 min Scan# 854
Delta R.T. -0.00 min
Lab File: VN060897.D
Acq: 8 Apr 2020 13:47

Tgt Ion: 84 Resp: 3075
Ion Ratio Lower Upper
84 100
49 118.6 103.3 154.9
51 39.0 31.6 47.4
86 58.6 52.0 78.0





#31

Cyclohexane

Concen: 0.989 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.01 min

Lab File: VN060897.D

Acq: 8 Apr 2020 13:47

Instrument :

MSVOA_N

ClientSampled :

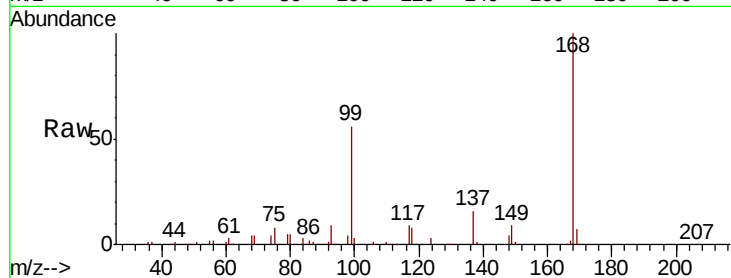
Tot Ion: 56 Resp: 4445

Ion Ratio Lower Upper

56 100

69 173.3 26.6 40.0#

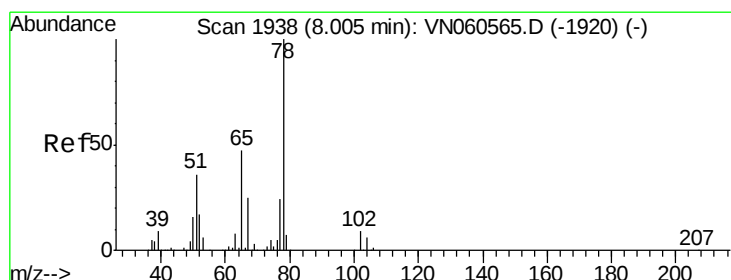
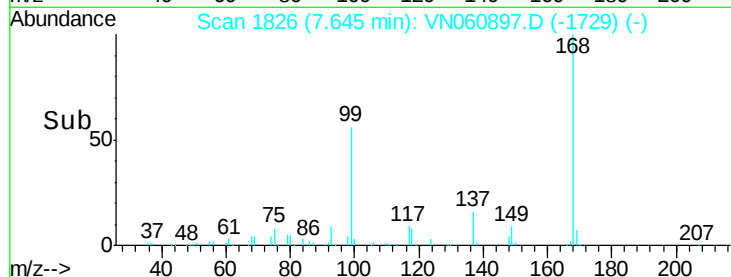
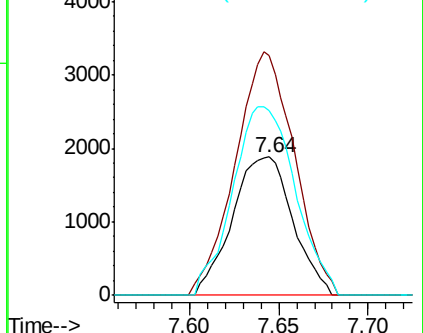
84 133.1 64.3 96.5#



Abundance Ion 56.00 (55.70 to 56.70): VN060897.D (-1729) (-)

Ion 69.00 (68.70 to 69.70): VN060897.D (-1729) (-)

Ion 84.00 (83.70 to 84.70): VN060897.D (-1729) (-)



#33

1,2-Dichloroethane-d4

Concen: 46.901 ug/l

RT: 8.00 min Scan# 1937

Delta R.T. -0.00 min

Lab File: VN060897.D

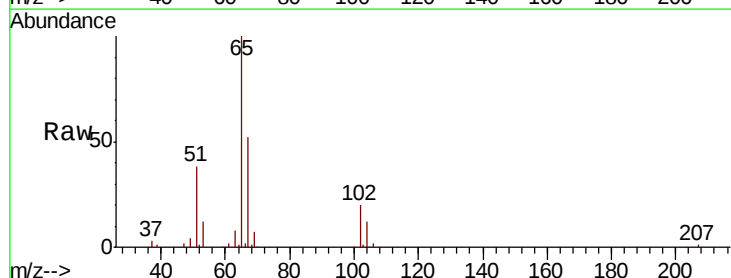
Acq: 8 Apr 2020 13:47

Tgt Ion: 65 Resp: 130910

Ion Ratio Lower Upper

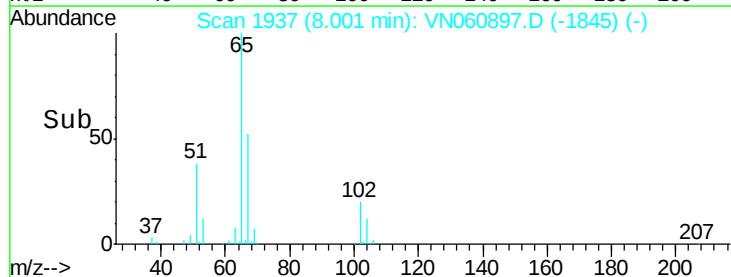
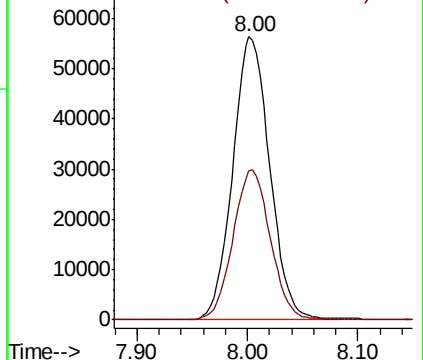
65 100

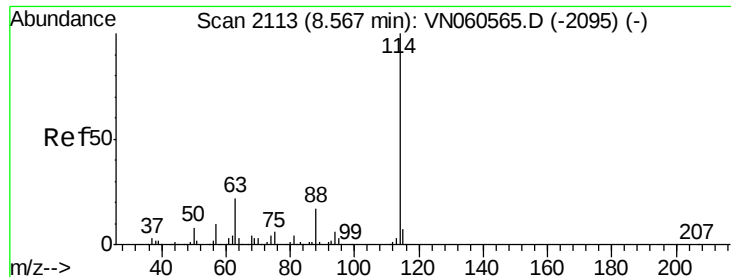
67 53.5 0.0 107.6



Abundance Ion 64.90 (64.60 to 65.60): VN060897.D (-1845) (-)

Ion 66.90 (66.60 to 67.60): VN060897.D (-1845) (-)

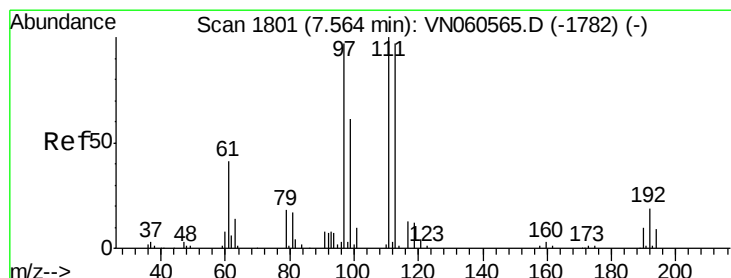
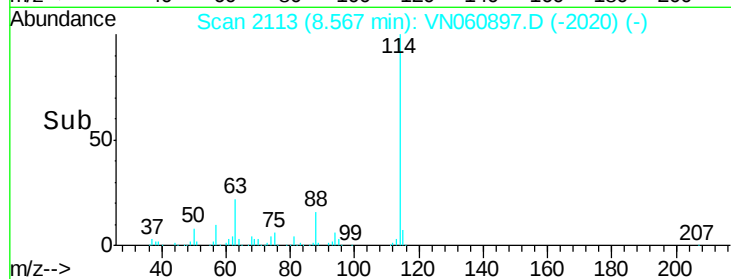
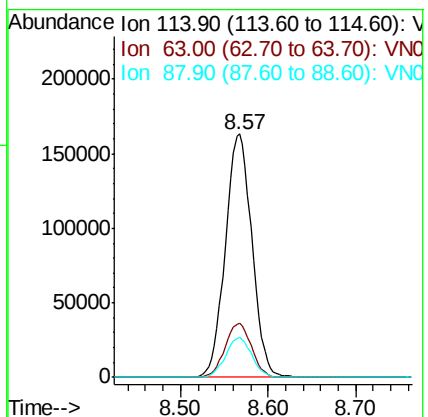
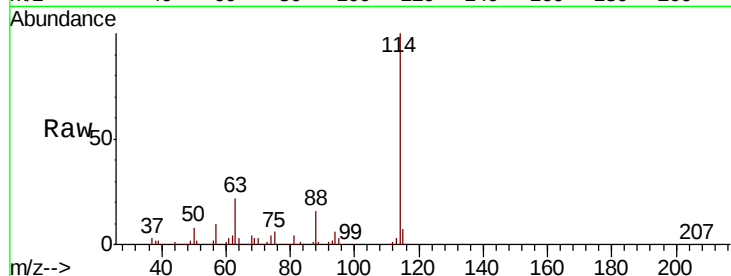




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VN060897.D
 Acq: 8 Apr 2020 13:47

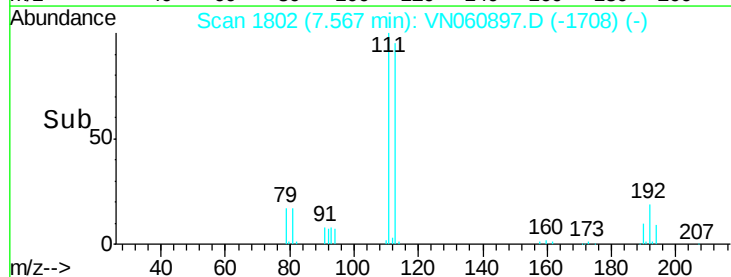
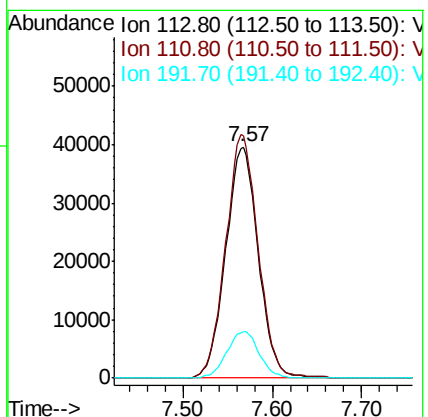
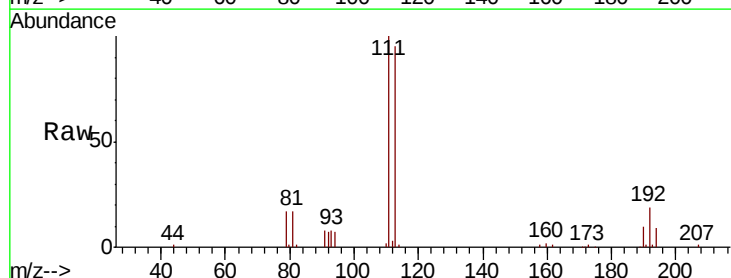
Instrument :
 MSVOA_N
 ClientSampleId :

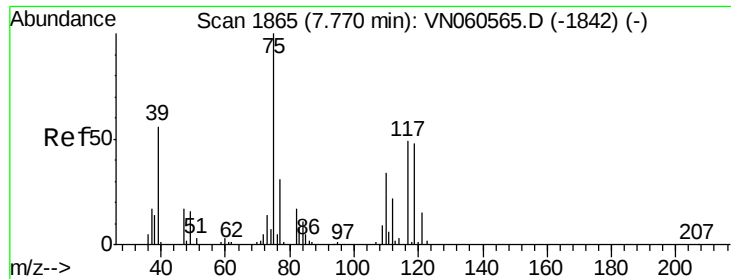
Tot Ion	Ratio	Lower	Upper
114	100		
63	22.1	0.0	43.8
88	16.2	0.0	33.0



#35
 Dibromofluoromethane
 Concen: 48.165 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN060897.D
 Acq: 8 Apr 2020 13:47

Tgt Ion	Ratio	Lower	Upper
113	100		
111	105.1	82.9	124.3
192	20.0	15.8	23.8

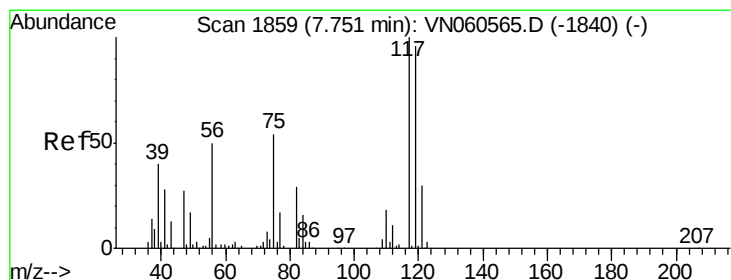
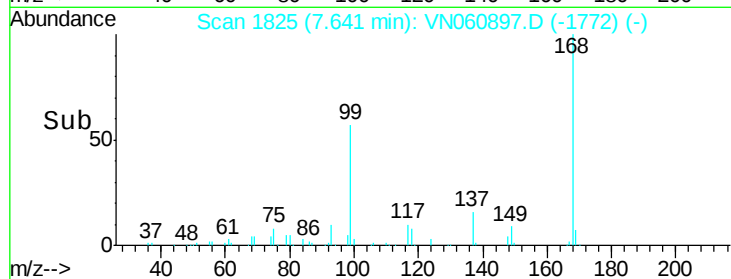
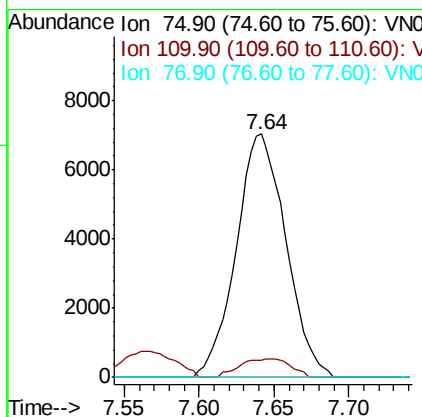
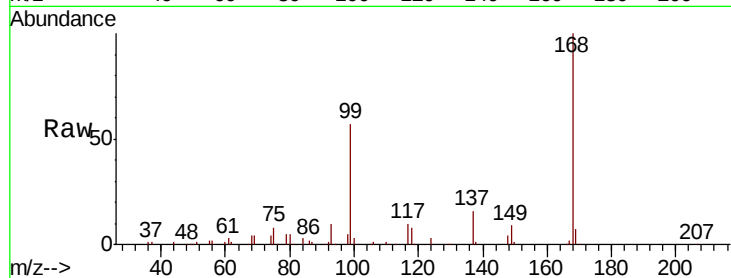




#36
 1,1-Dichloropropene
 Concen: 4.890 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060897.D
 Acq: 8 Apr 2020 13:47

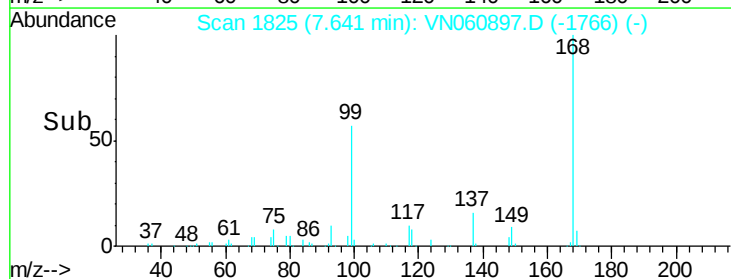
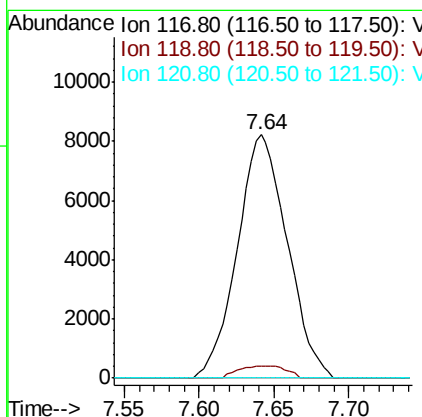
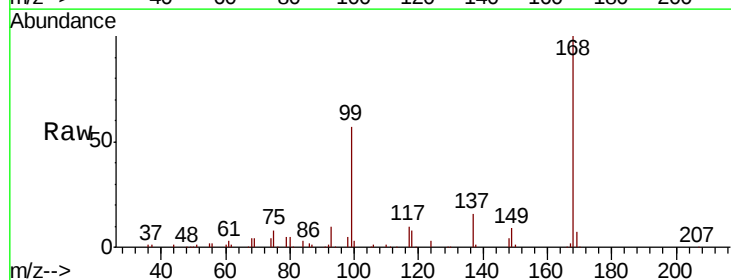
Instrument :
 MSVOA_N
 ClientSampleId :

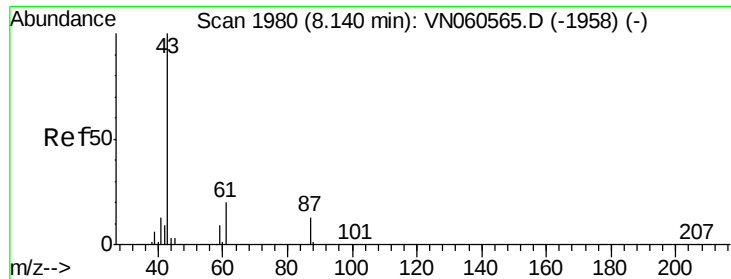
Tot Ion	75	Resp	16274
Ion Ratio	Lower	Upper	
75	100		
110	7.8	16.9	50.6#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 6.387 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.11 min
 Lab File: VN060897.D
 Acq: 8 Apr 2020 13:47

Tgt Ion	117	Resp	19053
Ion Ratio	Lower	Upper	
117	100		
119	4.8	76.2	114.2#
121	0.0	23.7	35.5#





#43

Isopropyl Acetate

Concen: 10.158 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. -0.00 min

Lab File: VN060897.D

Acq: 8 Apr 2020 13:47

Instrument :

MSVOA_N

ClientSampleId :

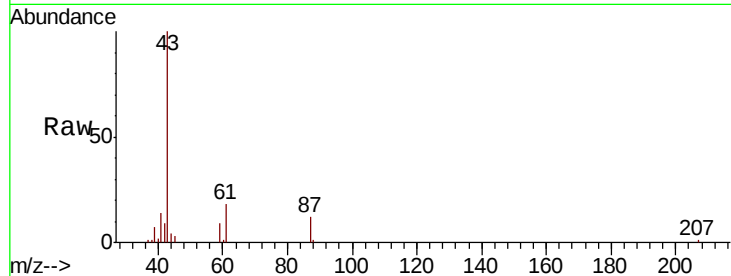
Tot Ion: 43 Resp: 60250

Ion Ratio Lower Upper

43 100

61 18.4 20.7 31.1#

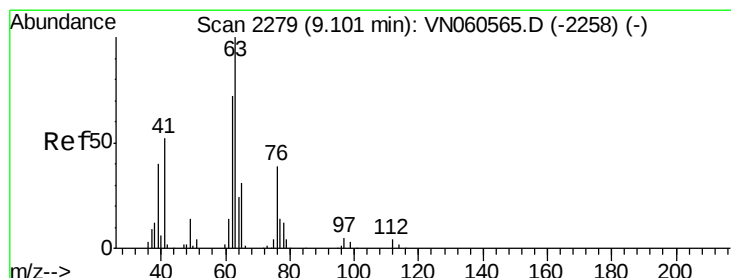
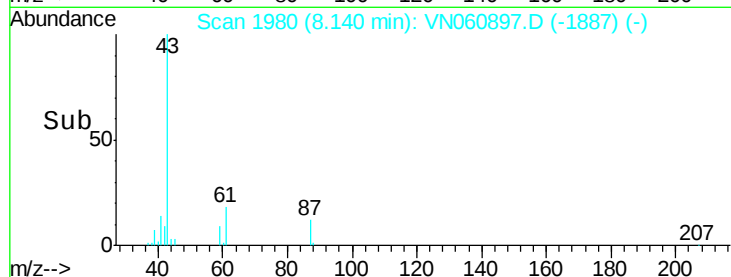
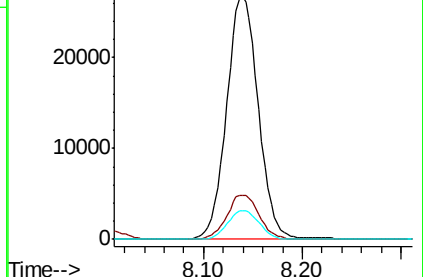
87 11.6 9.8 14.8



Abundance Ion 43.00 (42.70 to 43.70): VN060897.D (-1887) (-)

Ion 61.00 (60.70 to 61.70): VN060897.D (-1887) (-)

Ion 87.00 (86.70 to 87.70): VN060897.D (-1887) (-)



#45

1,2-Dichloropropane

Concen: 0.447 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN060897.D

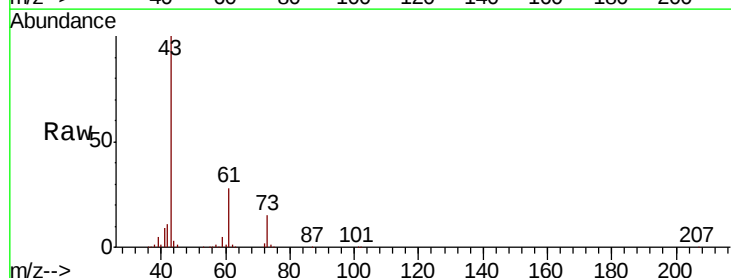
Acq: 8 Apr 2020 13:47

Tgt Ion: 63 Resp: 1186

Ion Ratio Lower Upper

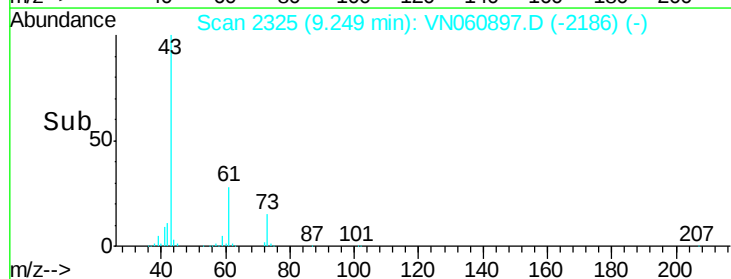
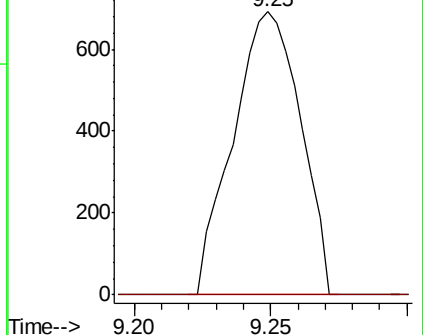
63 100

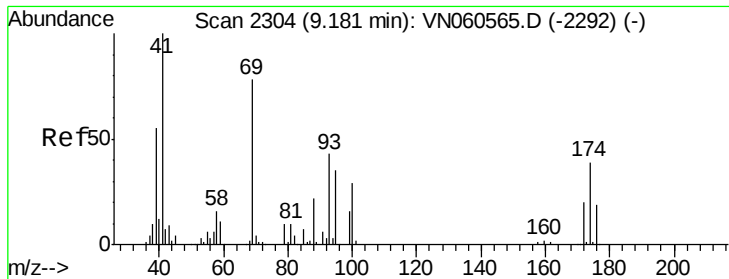
65 0.0 25.4 38.0#



Abundance Ion 62.90 (62.60 to 63.60): VN060897.D (-2186) (-)

Ion 64.90 (64.60 to 65.60): VN060897.D (-2186) (-)

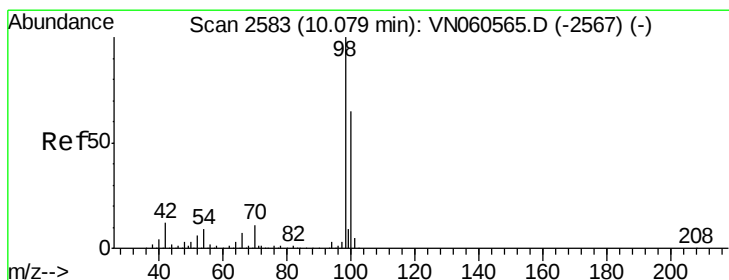
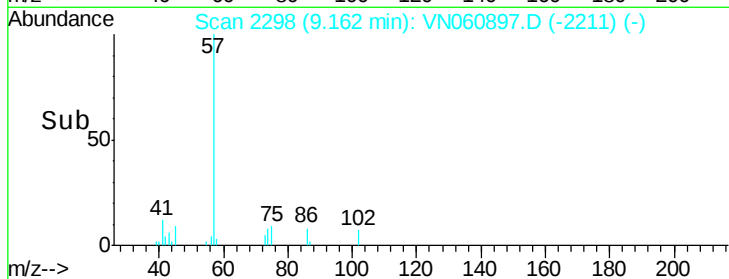
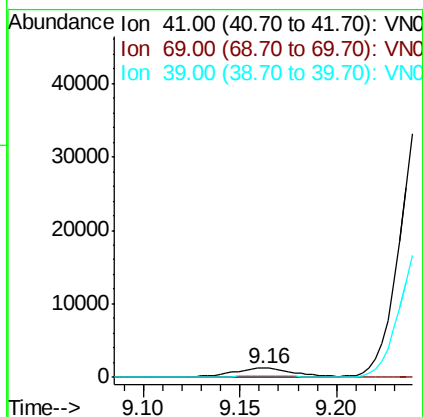
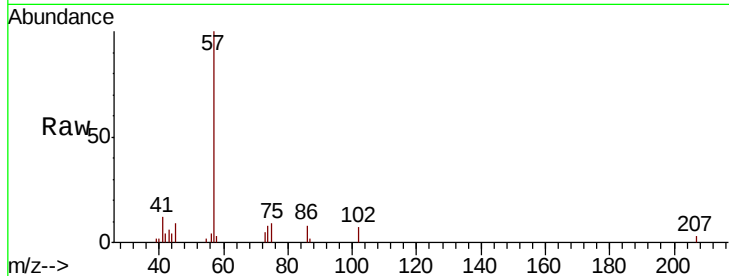




#48
Methvl methacrylate
Concen: 1.061 ug/l
RT: 9.16 min Scan# 2298
Delta R.T. -0.02 min
Lab File: VN060897.D
Acq: 8 Apr 2020 13:47

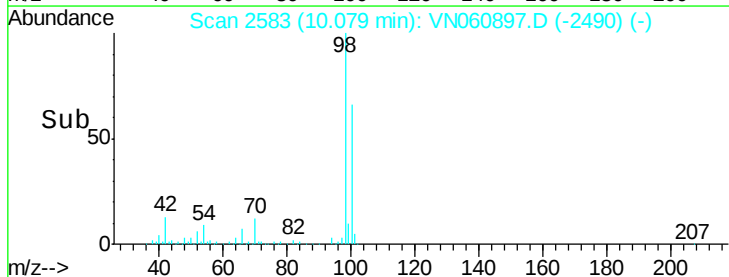
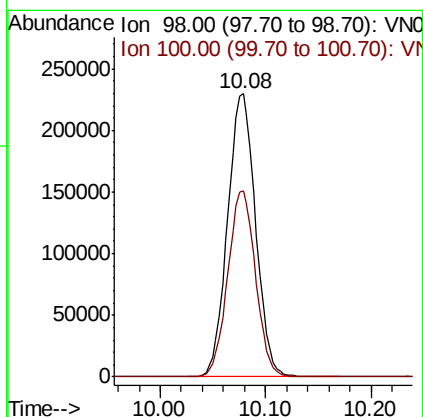
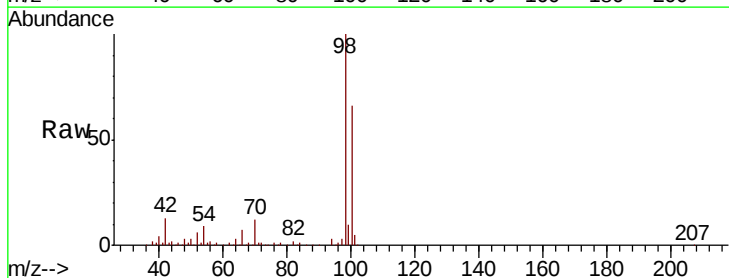
Instrument :
MSVOA_N
ClientSampleId :

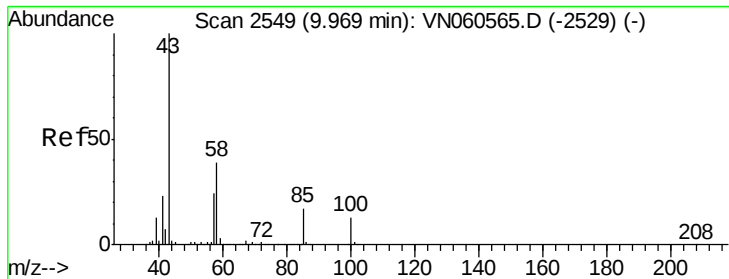
Tot Ion: 41 Resp: 2802
Ion Ratio Lower Upper
41 100
69 0.0 65.4 98.0#
39 0.0 44.0 66.0#



#50
Toluene-d8
Concen: 49.579 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. -0.00 min
Lab File: VN060897.D
Acq: 8 Apr 2020 13:47

Tgt Ion: 98 Resp: 420895
Ion Ratio Lower Upper
98 100
100 65.2 51.8 77.8

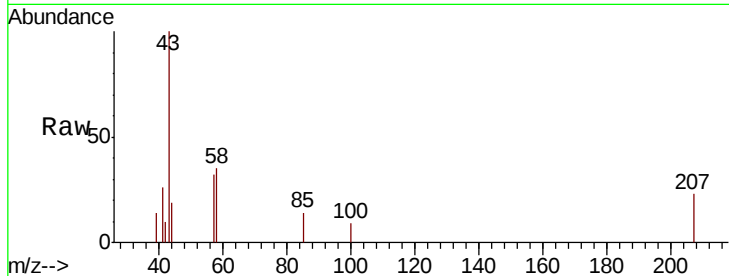




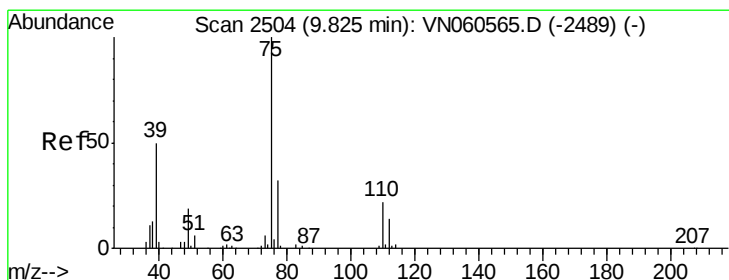
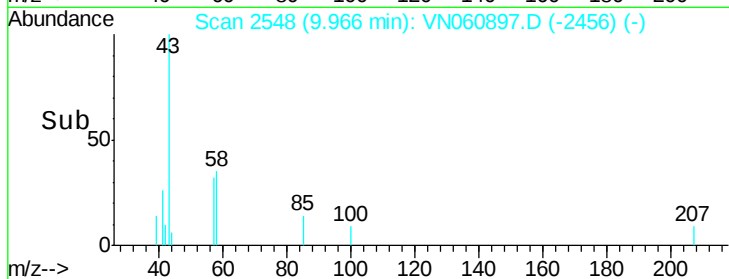
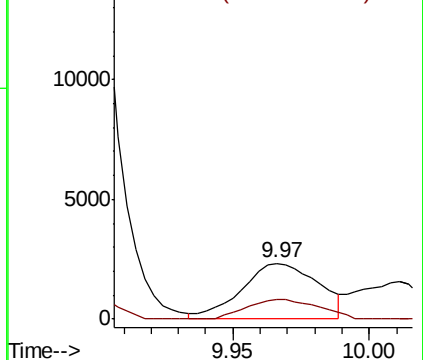
#51
4-Methyl-2-Pentanone
Concen: 1.356 ug/l
RT: 9.97 min Scan# 2548
Delta R.T. -0.00 min
Lab File: VN060897.D
Acq: 8 Apr 2020 13:47

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 4578
Ion Ratio Lower Upper
43 100
58 32.7 30.8 46.2

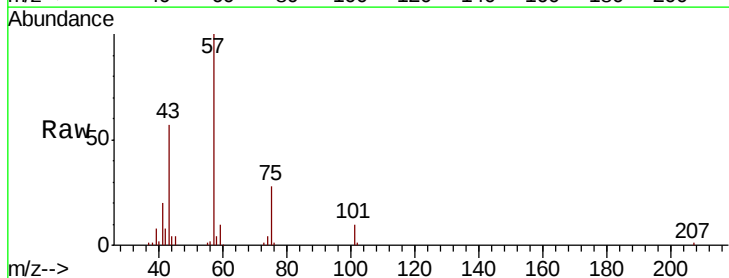


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

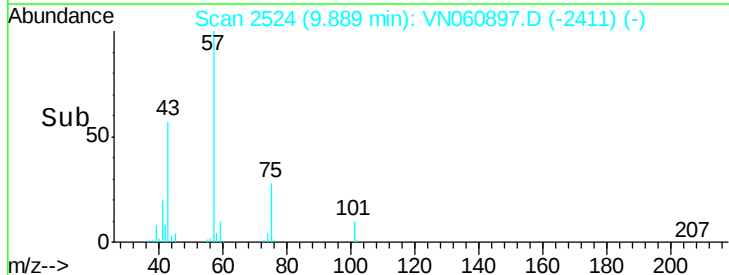
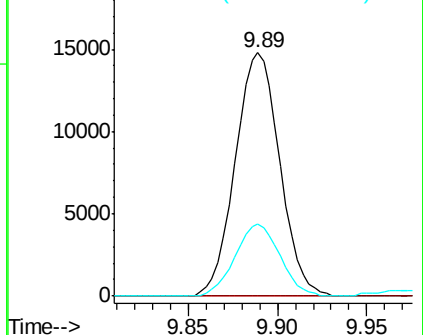


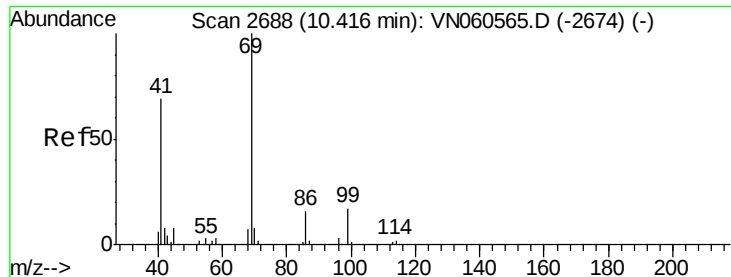
#54
cis-1,3-Dichloropropene
Concen: 6.140 ug/l
RT: 9.89 min Scan# 2524
Delta R.T. 0.06 min
Lab File: VN060897.D
Acq: 8 Apr 2020 13:47

Tgt Ion: 75 Resp: 25771
Ion Ratio Lower Upper
75 100
77 0.0 25.4 38.0#
39 29.6 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: 0.202 ug/l

RT: 10.53 min Scan# 2724

Delta R.T. 0.12 min

Lab File: VN060897.D

Acq: 8 Apr 2020 13:47

Instrument :

MSVOA_N

ClientSampleId :

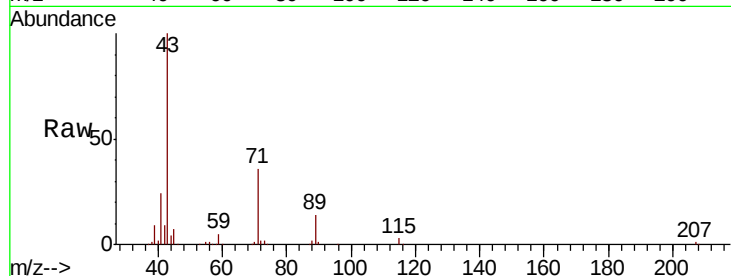
Tot Ion: 69 Resp: 736

Ion Ratio Lower Upper

69 100

41 7127.0 55.4 83.2#

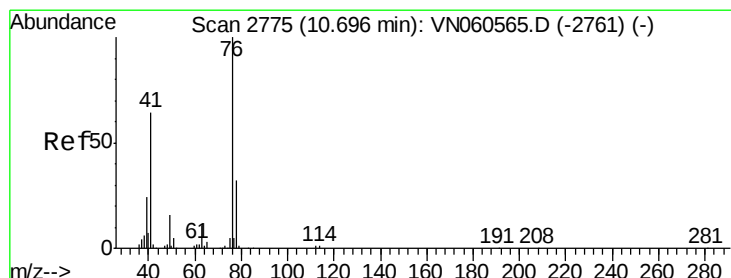
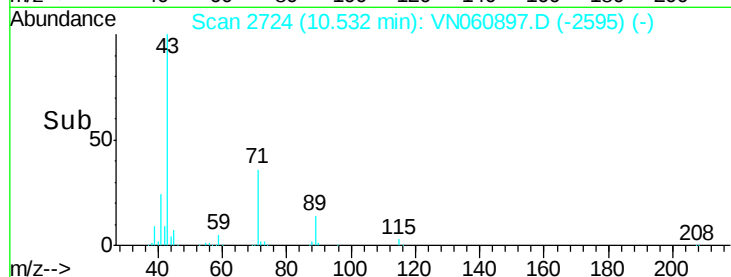
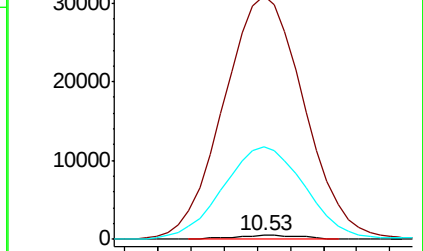
39 2784.1 29.4 44.0#



Abundance Ion 69.00 (68.70 to 69.70): VN060897.D (-2595) (-)

Ion 41.00 (40.70 to 41.70): VN060897.D (-2595) (-)

Ion 39.00 (38.70 to 39.70): VN060897.D (-2595) (-)



#57

1,3-Dichloropropane

Concen: 1.025 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060897.D

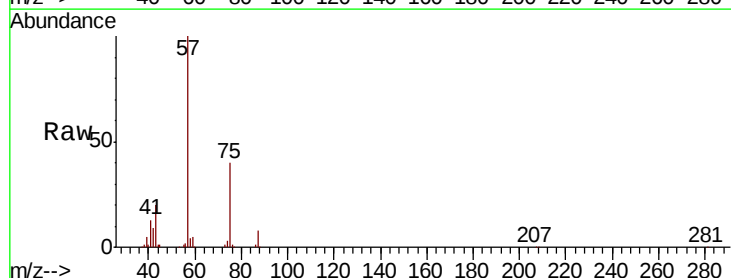
Acq: 8 Apr 2020 13:47

Tgt Ion: 76 Resp: 4153

Ion Ratio Lower Upper

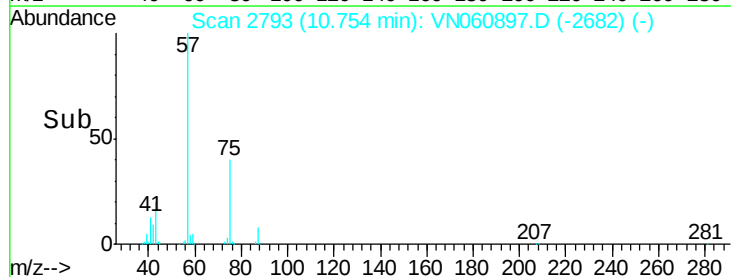
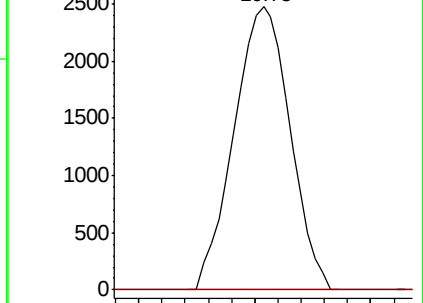
76 100

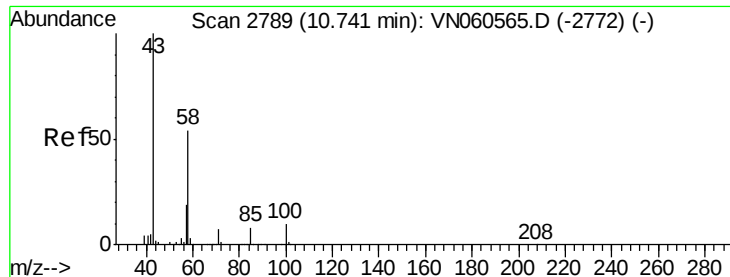
78 0.0 25.8 38.6#



Abundance Ion 75.90 (75.60 to 76.60): VN060897.D (-2682) (-)

Ion 77.90 (77.60 to 78.60): VN060897.D (-2682) (-)

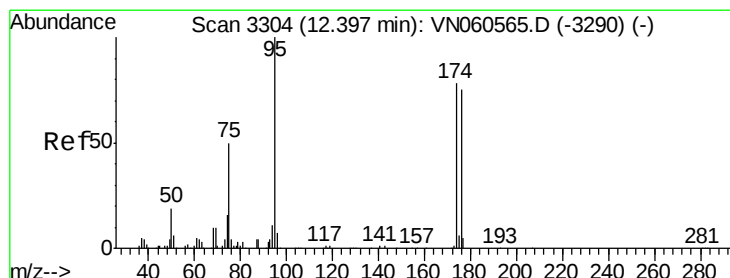
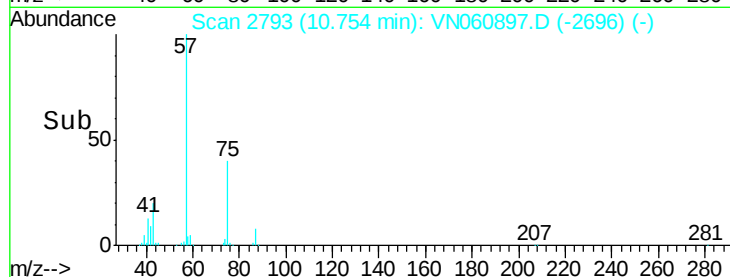
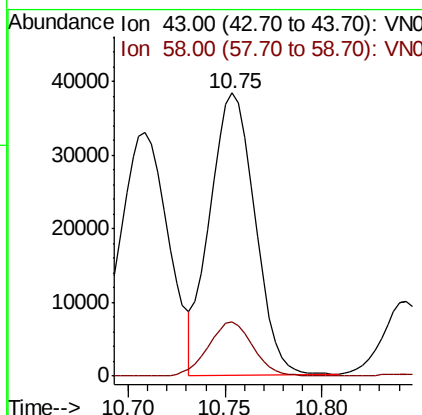
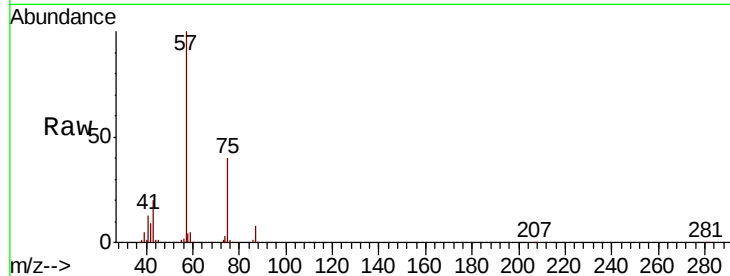




#59
2-Hexanone
Concen: 25.563 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060897.D
Acq: 8 Apr 2020 13:47

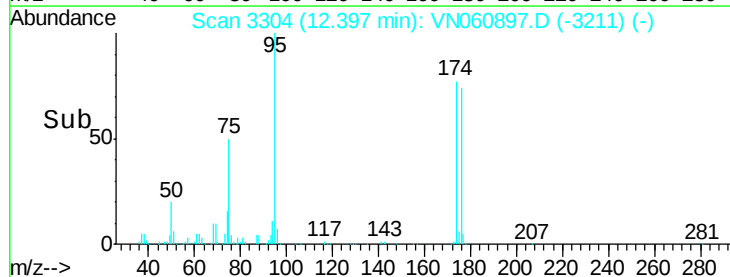
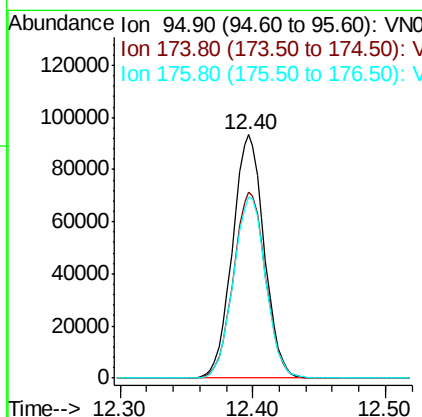
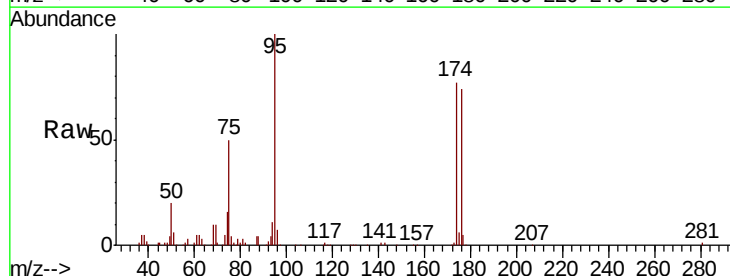
Instrument :
MSVOA_N
ClientSampleId :

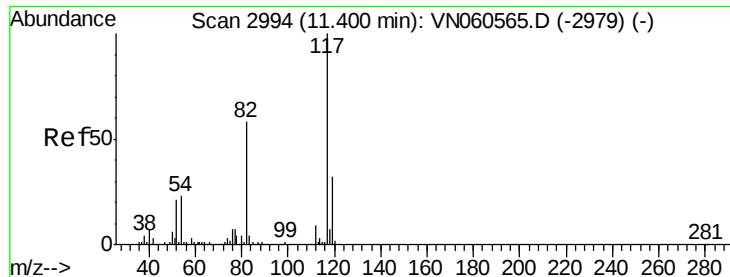
Tot Ion: 43 Resp: 62149
Ion Ratio Lower Upper
43 100
58 19.1 26.7 80.1#



#62
4-Bromofluorobenzene
Concen: 49.712 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.00 min
Lab File: VN060897.D
Acq: 8 Apr 2020 13:47

Tgt Ion: 95 Resp: 154666
Ion Ratio Lower Upper
95 100
174 77.7 0.0 157.6
176 76.0 0.0 150.6

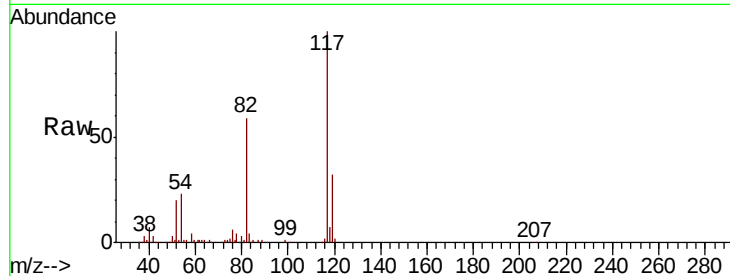




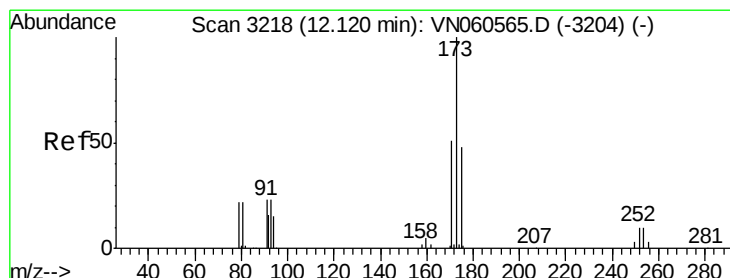
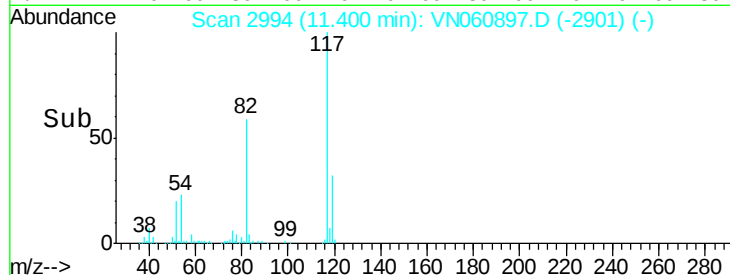
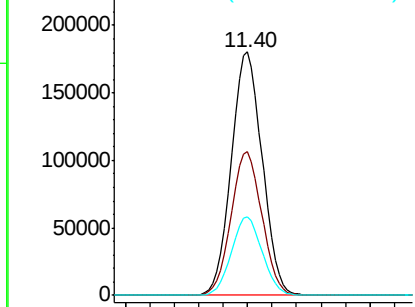
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. -0.00 min
Lab File: VN060897.D
Acq: 8 Apr 2020 13:47

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 317789
Ion Ratio Lower Upper
117 100
82 58.9 46.7 70.1
119 32.4 25.5 38.3

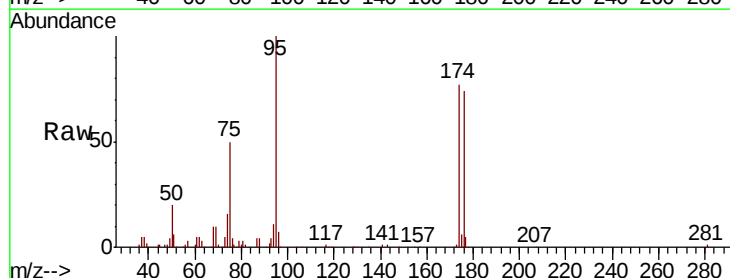


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

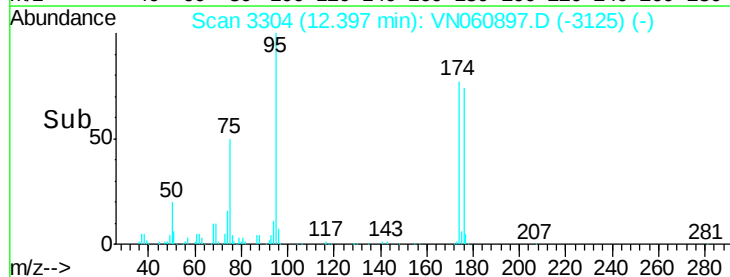
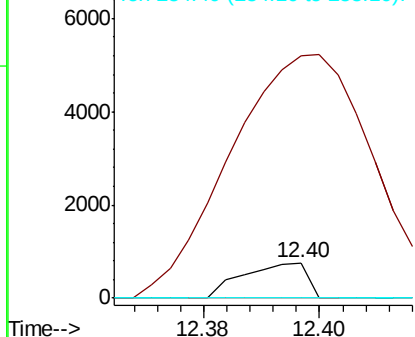


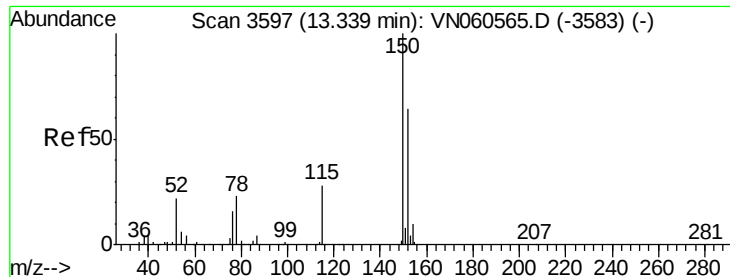
#71
Bromoform
Concen: 1.972 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.28 min
Lab File: VN060897.D
Acq: 8 Apr 2020 13:47

Tgt Ion:173 Resp: 572
Ion Ratio Lower Upper
173 100
175 1329.2 24.1 72.4#
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. -0.00 min

Lab File: VN060897.D

Acq: 8 Apr 2020 13:47

Instrument :

MSVOA_N

ClientSampleId :

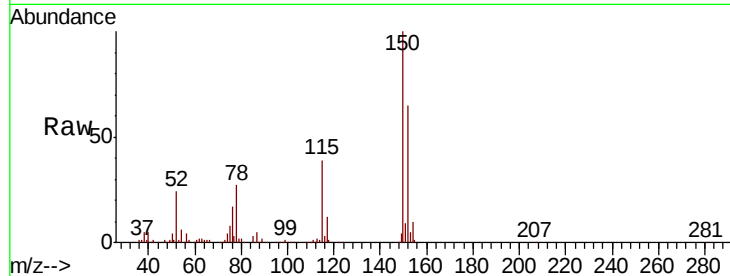
Tot Ion:152 Resp: 139836

Ion Ratio Lower Upper

152 100

115 59.7 30.2 90.6

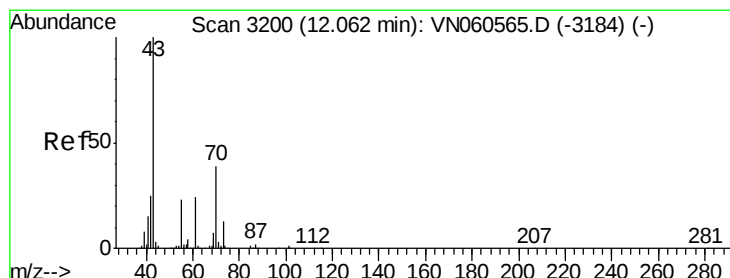
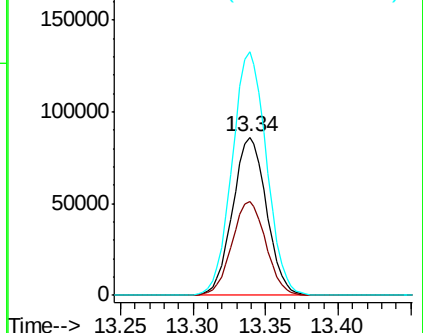
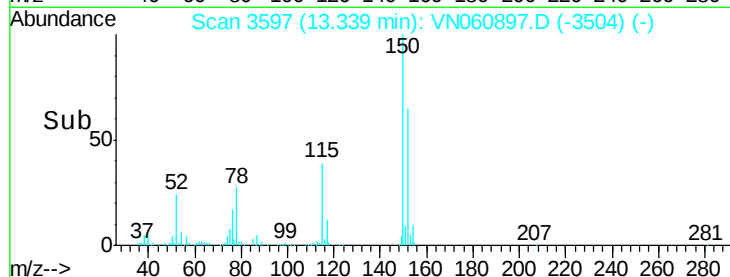
150 156.4 0.0 350.2



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: 0.513 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060897.D

Acq: 8 Apr 2020 13:47

Tgt Ion: 43 Resp: 2490

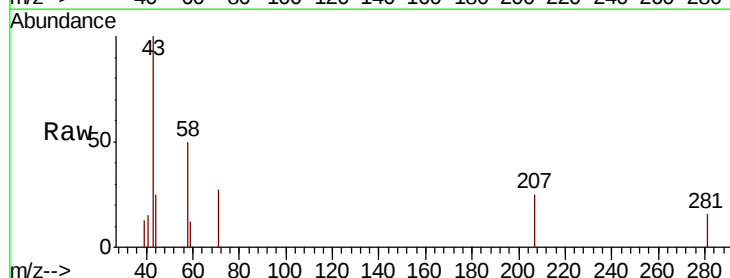
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 0.0 18.6 27.8#

61 0.0 18.9 28.3#

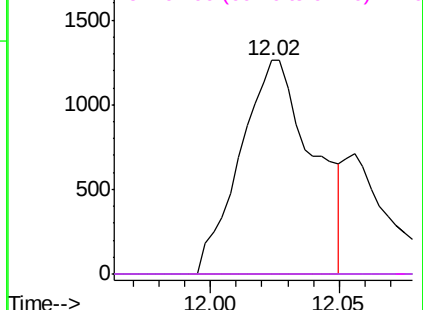
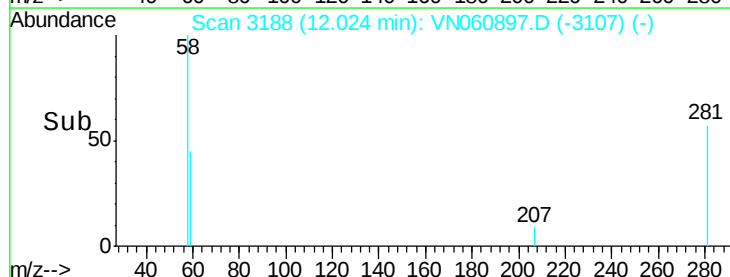


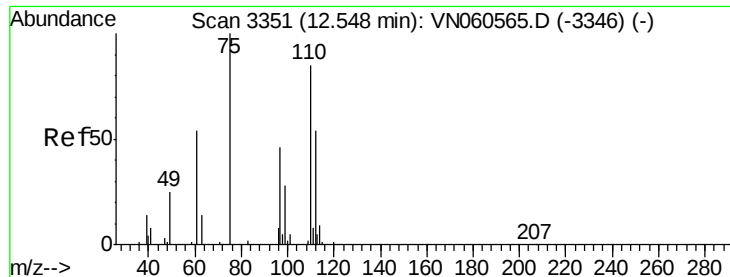
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 25.807 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060897.D

Acq: 8 Apr 2020 13:47

Instrument :

MSVOA_N

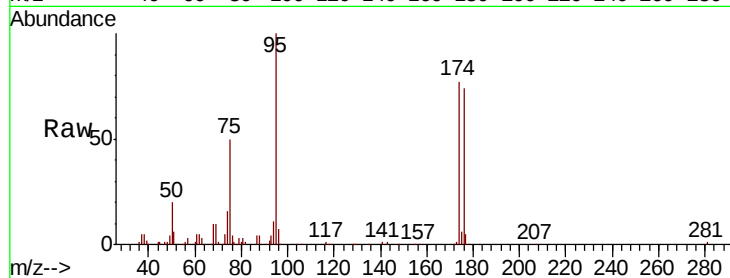
ClientSampled :

Tot Ion: 75 Resp: 77869

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN060897.D (-3304) (-)

Ion 77.00 (76.70 to 77.70): VN060897.D (-3304) (-)

12.40

50000

40000

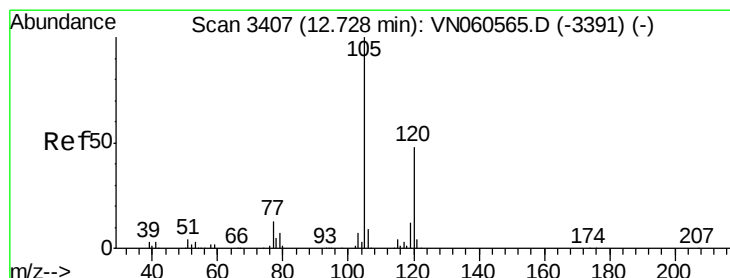
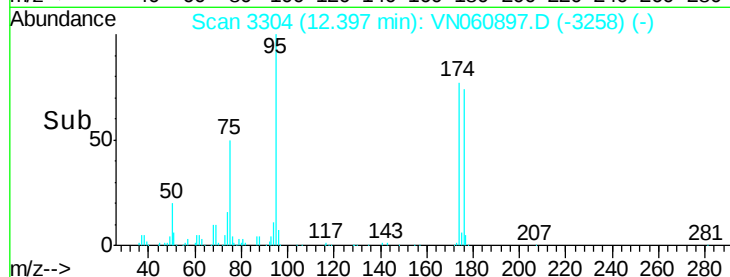
30000

20000

10000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.408 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. -0.00 min

Lab File: VN060897.D

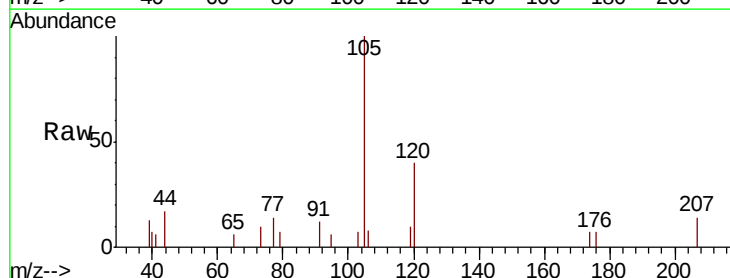
Acq: 8 Apr 2020 13:47

Tgt Ion:105 Resp: 3634

Ion Ratio Lower Upper

105 100

120 41.8 23.9 71.7



Abundance Ion 105.00 (104.70 to 105.70): VN060897.D (-3314) (-)

Ion 120.00 (119.70 to 120.70): VN060897.D (-3314) (-)

12.73

2500

2000

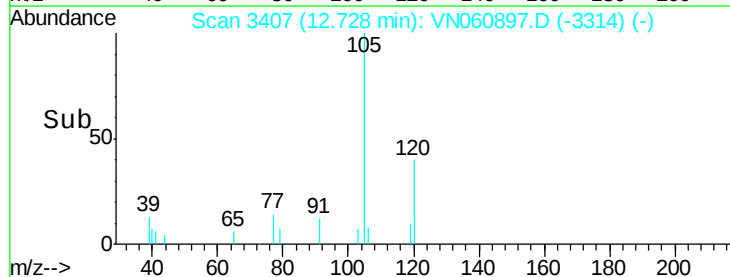
1500

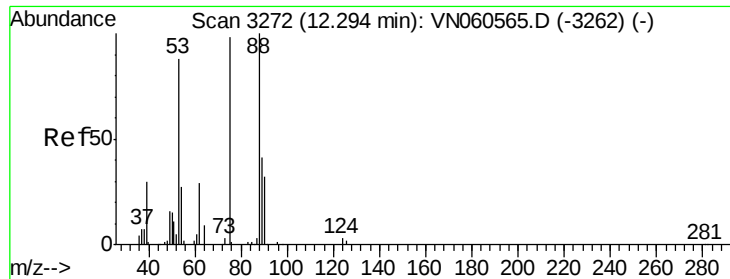
1000

500

0

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 66.280 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060897.D

Acq: 8 Apr 2020 13:47

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 75 Resp: 77869

Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.4#

89 0.0 34.8 52.2#

