

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN033120\
 Data File : VN060788.D
 Acq On : 31 Mar 2020 16:05
 Operator : JC/MD
 Sample : L2070-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 01 08:23:52 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

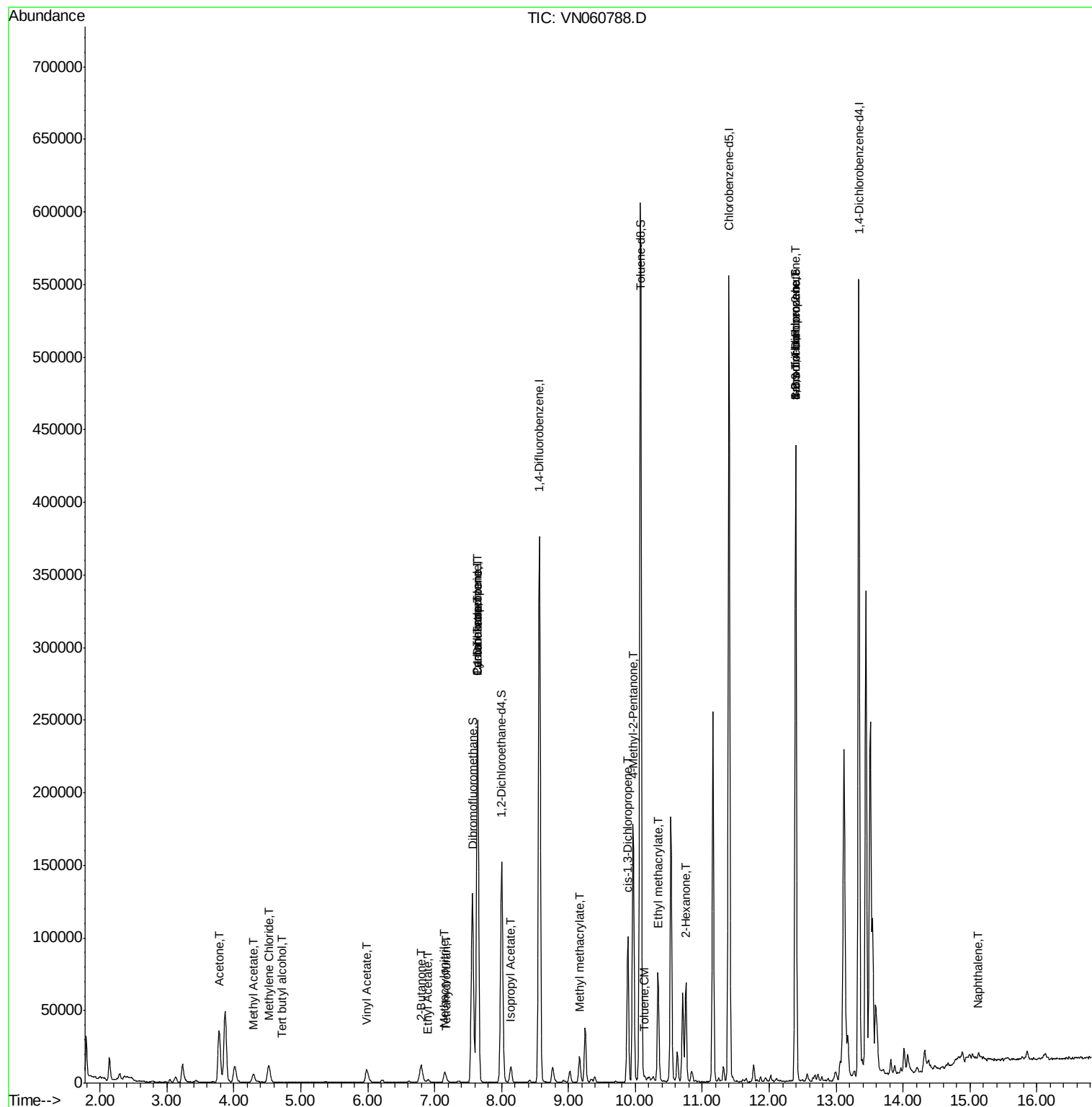
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	200309	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	336699	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	314392	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	145335	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.00	65	129938	47.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.50%	
35) Dibromofluoromethane	7.56	113	99238	48.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.48%	
50) Toluene-d8	10.08	98	416388	50.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.14%	
62) 4-Bromofluorobenzene	12.40	95	155177	50.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.84%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.73	59	117	0.289	ug/l #	72
16) Acetone	3.78	43	63683	65.381	ug/l	98
18) Methyl Acetate	4.29	43	12278	4.478	ug/l	94
20) Methylene Chloride	4.52	84	9019	3.764	ug/l	97
23) Vinyl Acetate	5.99	43	1710	0.260	ug/l #	74
25) 2-Butanone	6.80	43	22349	14.179	ug/l	96
29) Tetrahydrofuran	7.18	42	489	0.438	ug/l #	35
31) Cyclohexane	7.64	56	4459	1.007	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	16057	4.925	ug/l #	49
37) Ethyl Acetate	6.90	43	4889	1.388	ug/l #	77
38) Carbon Tetrachloride	7.64	117	19326	6.614	ug/l #	16
41) Methacrylonitrile	7.14	41	918	0.611	ug/l #	100
43) Isopropyl Acetate	8.14	43	13072	2.250	ug/l #	90
48) Methyl methacrylate	9.16	41	3717	1.437	ug/l #	28
51) 4-Methyl-2-Pentanone	9.97	43	124321	37.604	ug/l	99
52) Toluene	10.14	92	1725	0.290	ug/l	99
54) cis-1,3-Dichloropropene	9.89	75	15211	3.700	ug/l #	61
56) Ethyl methacrylate	10.34	69	11869	3.329	ug/l #	64
59) 2-Hexanone	10.75	43	9834	4.129	ug/l	64
71) Bromoform	12.40	173	116	1.740	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	78784	25.122	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	78784	64.521	ug/l #	13
92) 1,2-Dibromo-3-Chloropropan	14.32	75	60	Below Cal	#	3
95) Naphthalene	15.13	128	3305	0.404	ug/l #	88

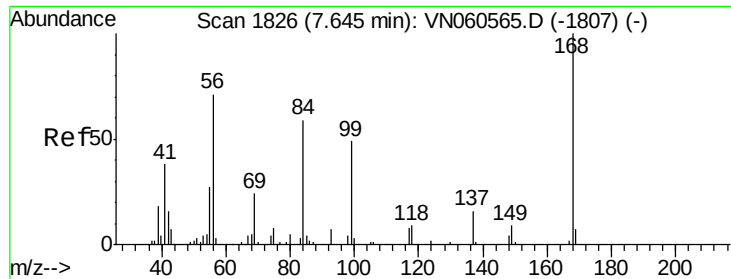
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN033120\
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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: VN060788.D

Acq: 31 Mar 2020 16:05

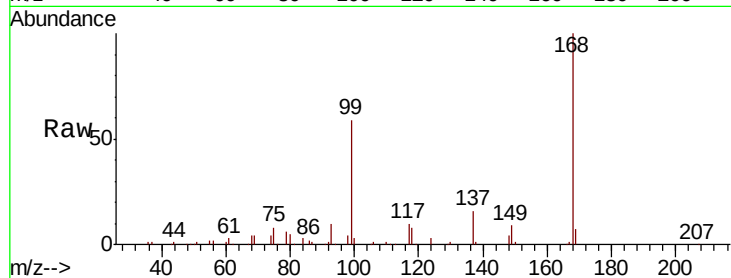
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 200309

Ion Ratio Lower Upper

168 100

99 58.7 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): VN060788.D (-1733) (-)

Ion 98.90 (98.60 to 99.60): VN060788.D (-1733) (-)

7.64

80000

60000

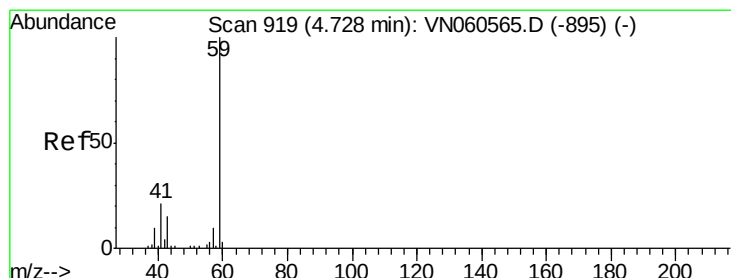
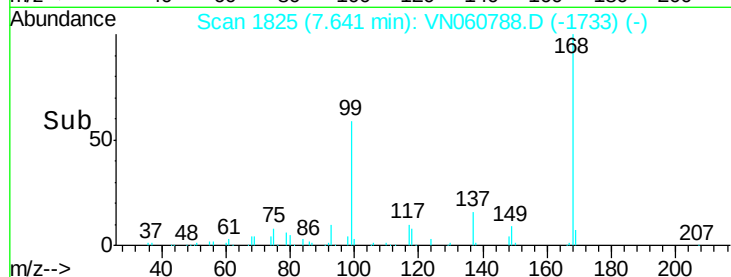
40000

20000

0

7.60 7.70

Time-->



#11

Tert butyl alcohol

Concen: 0.289 ug/l

RT: 4.73 min Scan# 918

Delta R.T. -0.00 min

Lab File: VN060788.D

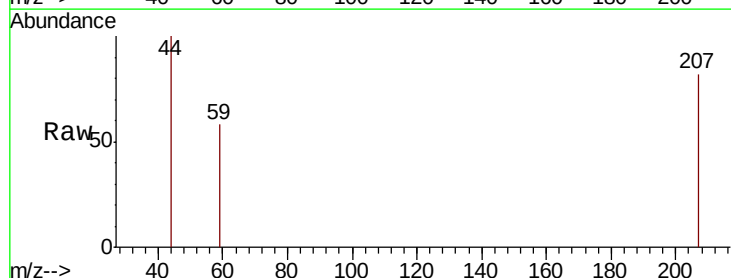
Acq: 31 Mar 2020 16:05

Tgt Ion: 59 Resp: 117

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VN060788.D (-826) (-)

Ion 57.00 (56.70 to 57.70): VN060788.D (-826) (-)

4.73

150

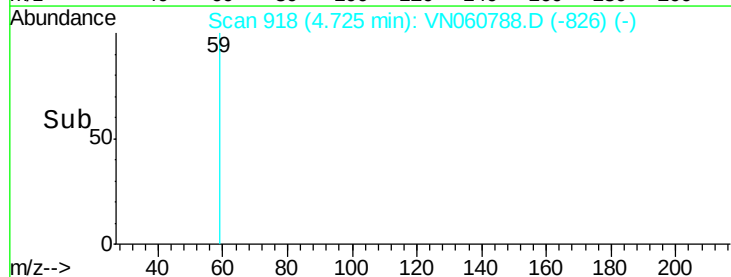
100

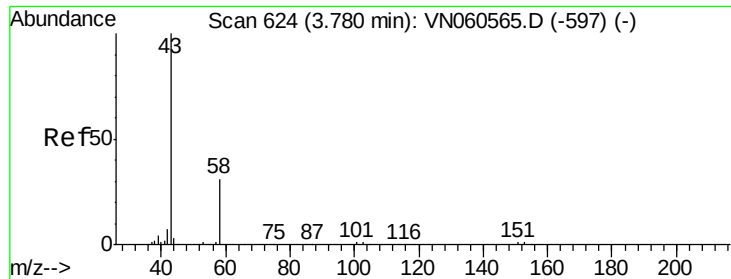
50

0

4.71 4.72 4.73 4.74

Time-->

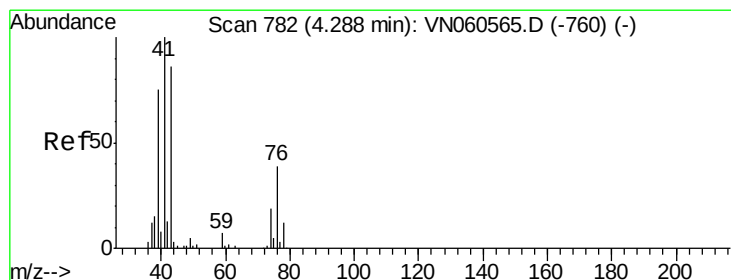
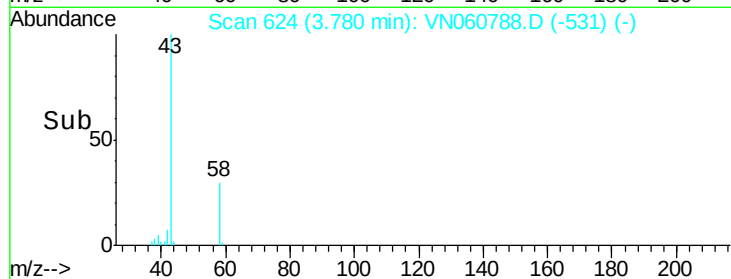
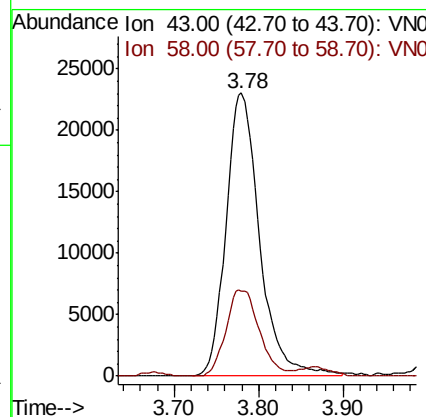
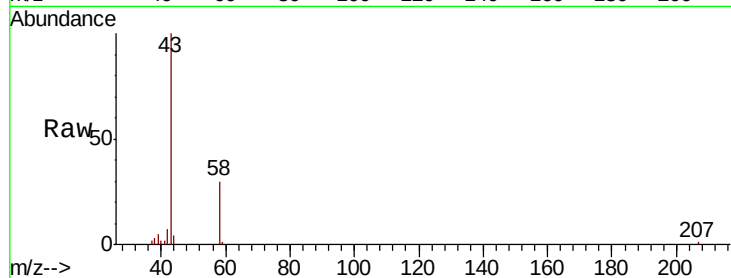




#16
Acetone
Concen: 65.381 ug/l
RT: 3.78 min Scan# 624
Delta R.T. 0.00 min
Lab File: VN060788.D
Acq: 31 Mar 2020 16:05

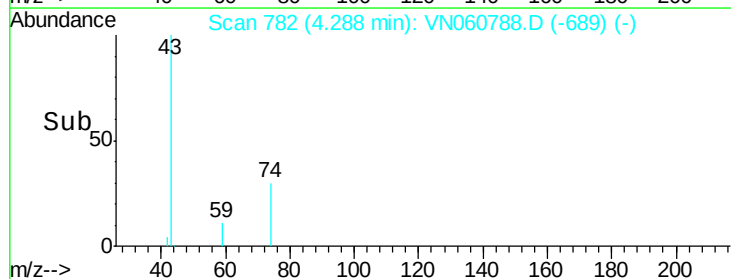
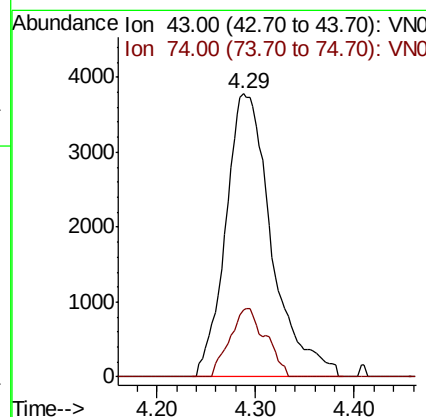
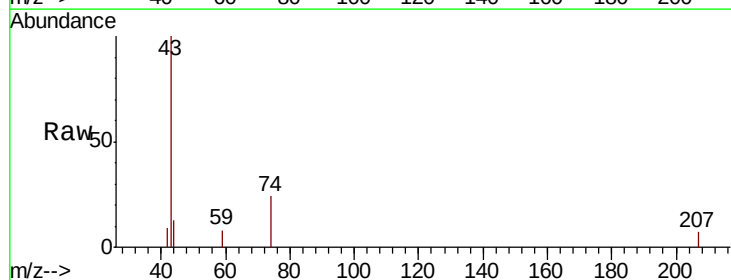
Instrument :
MSVOA_N
ClientSampled :

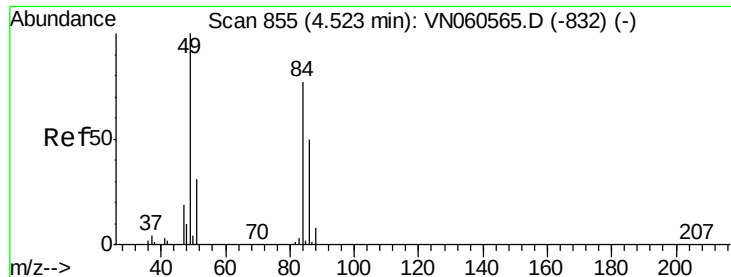
Tot Ion: 43 Resp: 63683
Ion Ratio Lower Upper
43 100
58 30.2 25.1 37.7



#18
Methyl Acetate
Concen: 4.478 ug/l
RT: 4.29 min Scan# 782
Delta R.T. 0.00 min
Lab File: VN060788.D
Acq: 31 Mar 2020 16:05

Tgt Ion: 43 Resp: 12278
Ion Ratio Lower Upper
43 100
74 18.9 17.5 26.3

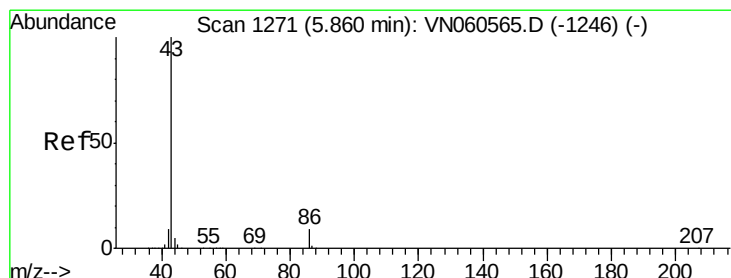
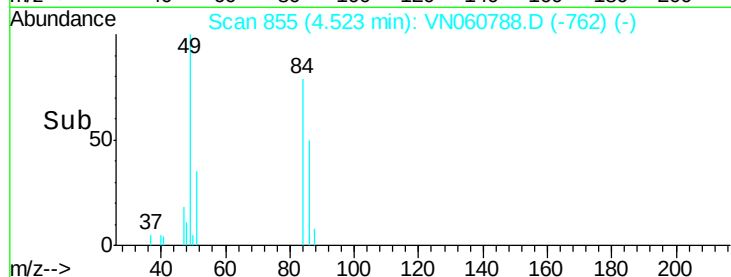
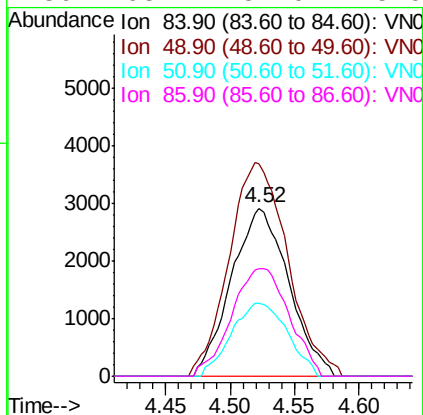
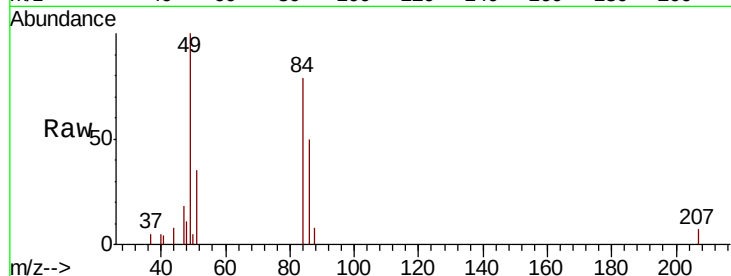




#20
Methvlene Chloride
Concen: 3.764 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN060788.D
Acq: 31 Mar 2020 16:05

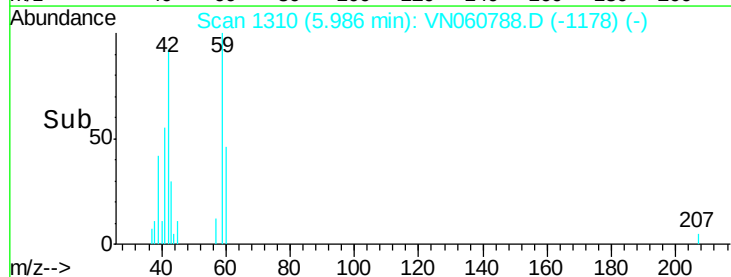
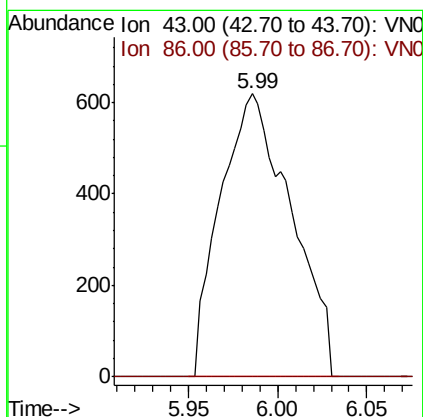
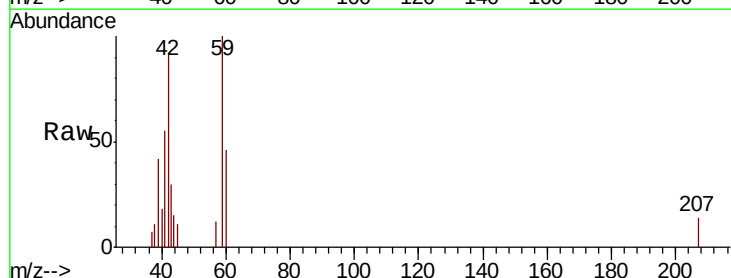
Instrument :
MSVOA_N
ClientSampled :

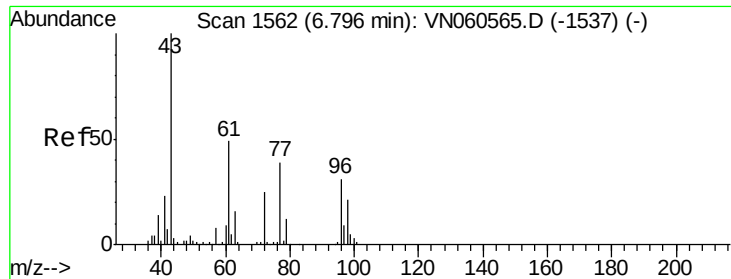
Tot Ion:	84	Resp:	9019
Ion	Ratio	Lower	Upper
84	100		
49	126.8	103.3	154.9
51	43.8	31.6	47.4
86	63.7	52.0	78.0



#23
Vinyl Acetate
Concen: 0.260 ug/l
RT: 5.99 min Scan# 1310
Delta R.T. 0.13 min
Lab File: VN060788.D
Acq: 31 Mar 2020 16:05

Tgt Ion:	43	Resp:	1710
Ion	Ratio	Lower	Upper
43	100		
86	0.0	7.6	11.4#

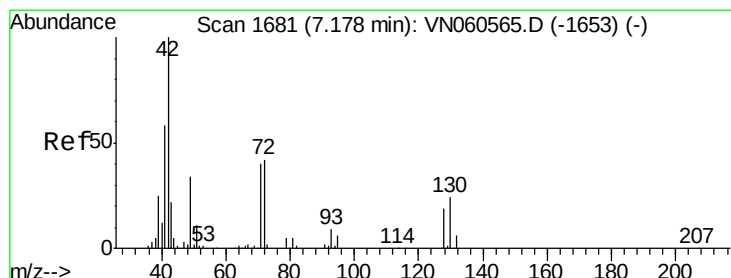
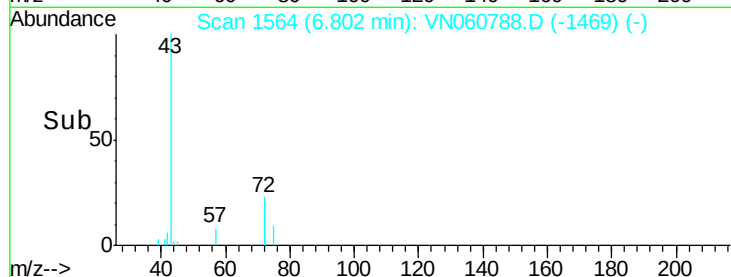
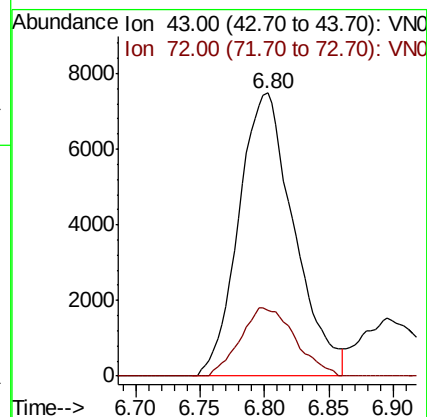
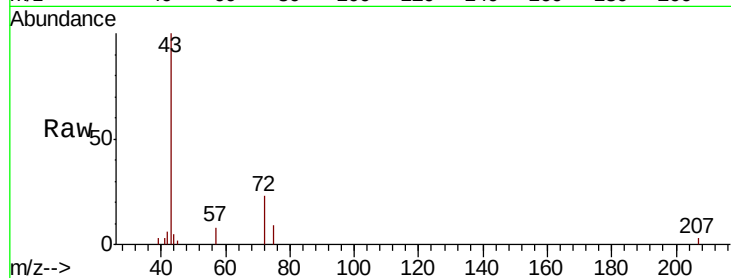




#25
2-Butanone
Concen: 14.179 ug/l
RT: 6.80 min Scan# 1564
Delta R.T. 0.01 min
Lab File: VN060788.D
Acq: 31 Mar 2020 16:05

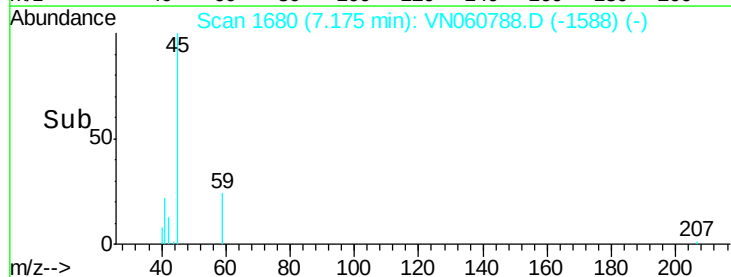
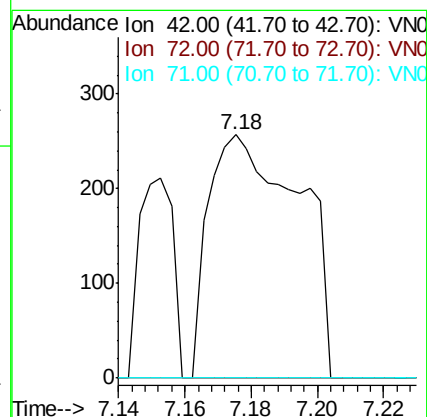
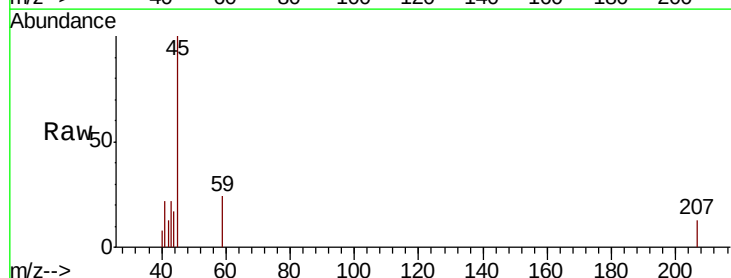
Instrument :
MSVOA_N
ClientSampled :

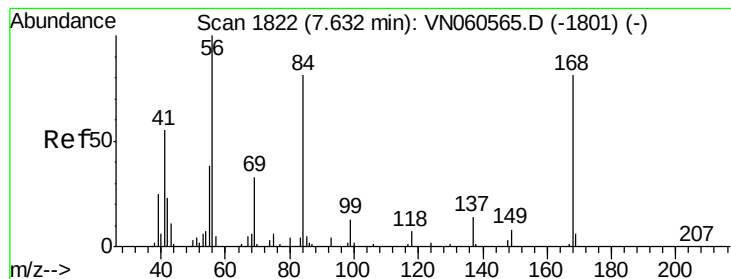
Tot Ion: 43 Resp: 22349
Ion Ratio Lower Upper
43 100
72 23.2 20.4 30.6



#29
Tetrahydrofuran
Concen: 0.438 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. -0.00 min
Lab File: VN060788.D
Acq: 31 Mar 2020 16:05

Tgt Ion: 42 Resp: 489
Ion Ratio Lower Upper
42 100
72 0.0 33.2 49.8#
71 0.0 31.1 46.7#





#31

Cyclohexane

Concen: 1.007 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. 0.01 min

Lab File: VN060788.D

Acq: 31 Mar 2020 16:05

Instrument :
MSVOA_N
ClientSampled :

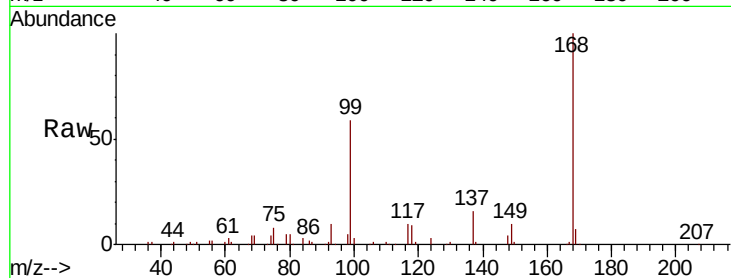
Tot Ion: 56 Resp: 4459

Ion Ratio Lower Upper

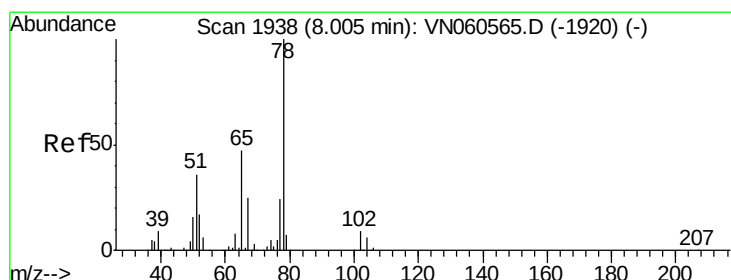
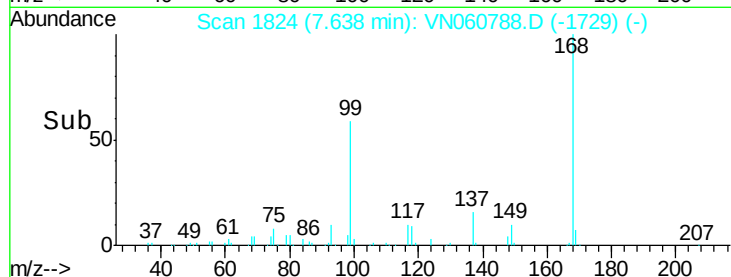
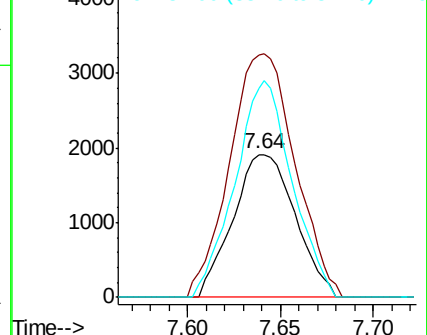
56 100

69 169.6 26.6 40.0#

84 146.7 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: 47.254 ug/l

RT: 8.00 min Scan# 1937

Delta R.T. -0.00 min

Lab File: VN060788.D

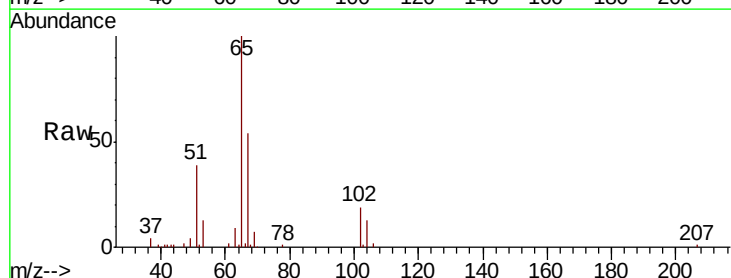
Acq: 31 Mar 2020 16:05

Tgt Ion: 65 Resp: 129938

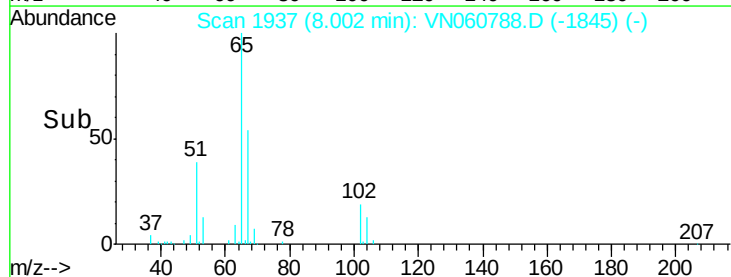
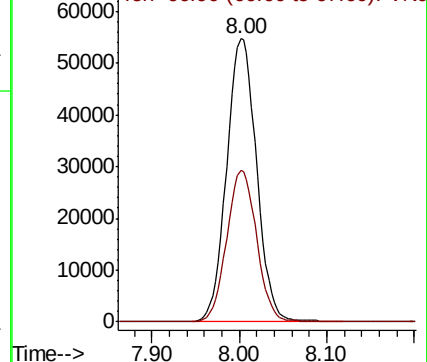
Ion Ratio Lower Upper

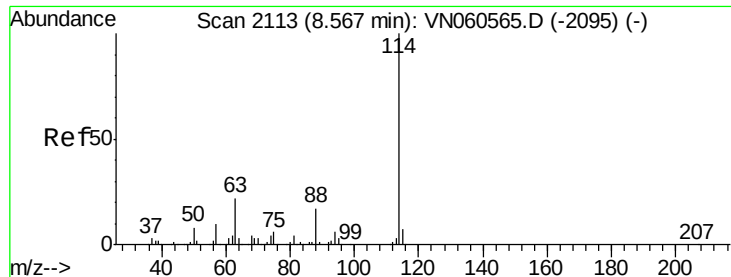
65 100

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: VN060788.D

Acq: 31 Mar 2020 16:05

Instrument :

MSVOA_N

ClientSampleId :

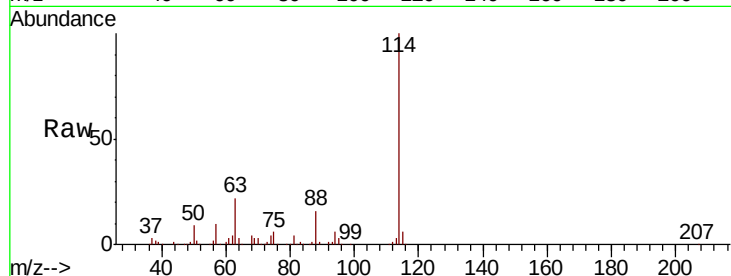
Tot Ion:114 Resp: 336699

Ion Ratio Lower Upper

114 100

63 22.0 0.0 43.8

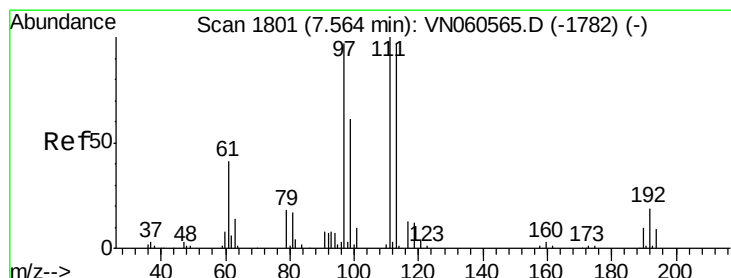
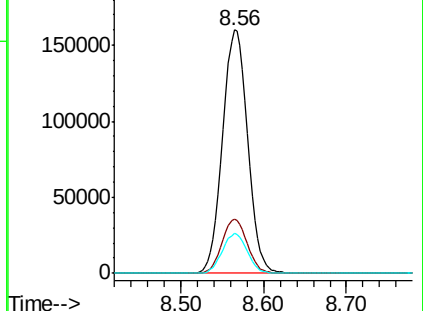
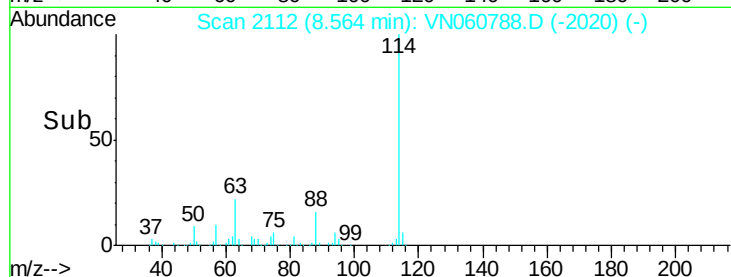
88 16.2 0.0 33.0



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: 48.744 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. 0.00 min

Lab File: VN060788.D

Acq: 31 Mar 2020 16:05

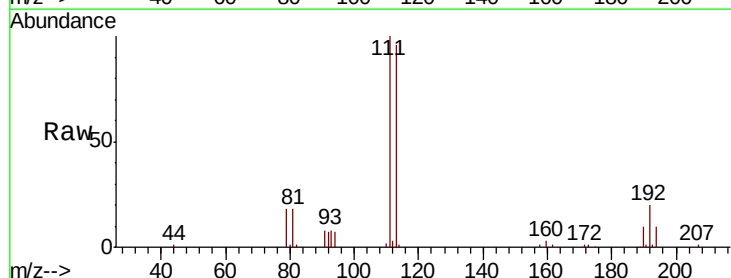
Tgt Ion:113 Resp: 99238

Ion Ratio Lower Upper

113 100

111 102.2 82.9 124.3

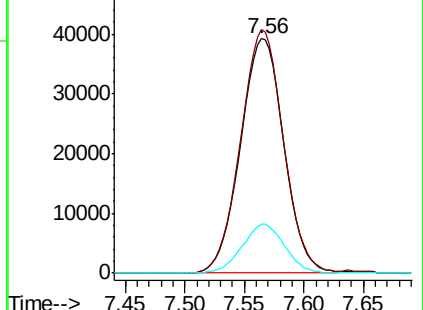
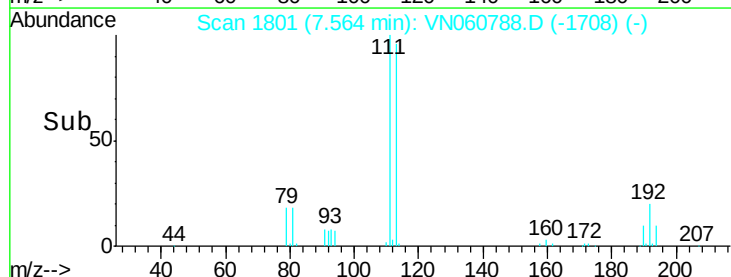
192 20.3 15.8 23.8

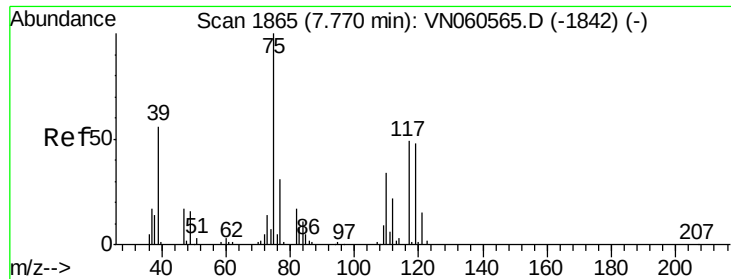


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

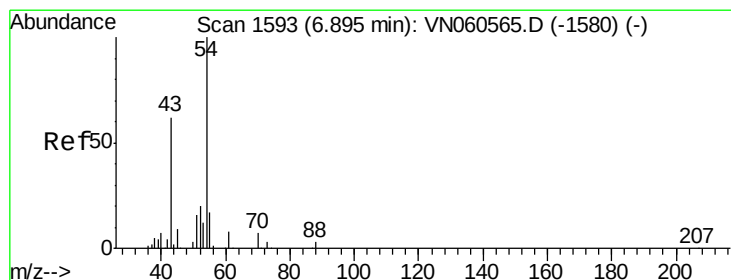
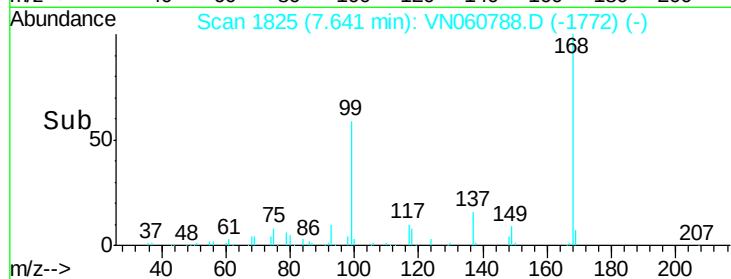
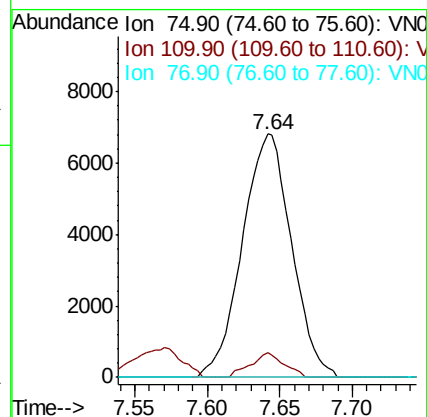
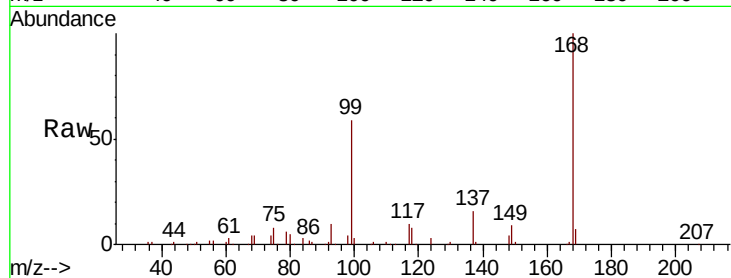




#36
 1,1-Dichloropropene
 Concen: 4.925 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060788.D
 Acq: 31 Mar 2020 16:05

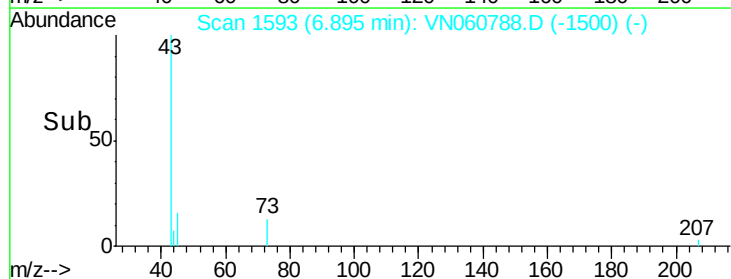
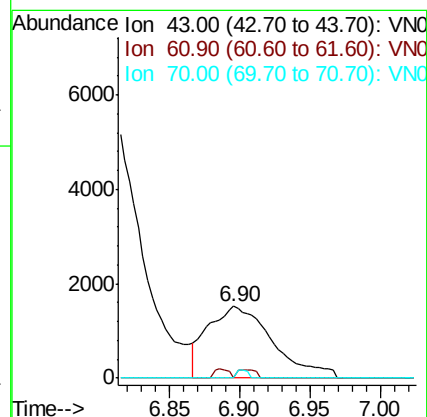
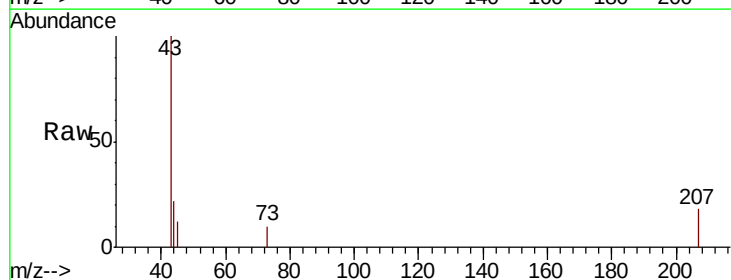
Instrument :
 MSVOA_N
 ClientSampled :

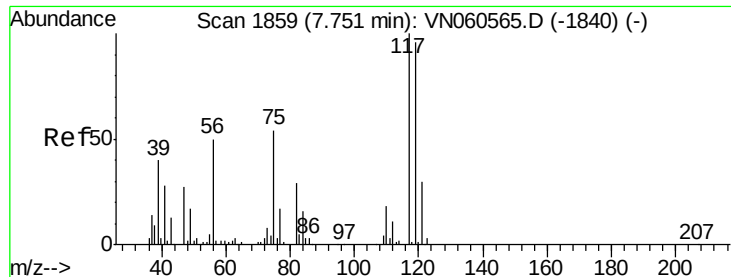
Tot Ion	Ratio	Lower	Upper
75	100		
110	6.9	16.9	50.6#
77	0.0	24.6	36.8#



#37
 Ethyl Acetate
 Concen: 1.388 ug/l
 RT: 6.90 min Scan# 1593
 Delta R.T. 0.00 min
 Lab File: VN060788.D
 Acq: 31 Mar 2020 16:05

Tgt Ion	Ratio	Lower	Upper
43	100		
61	3.3	10.6	15.8#
70	2.0	7.9	11.9#





#38

Carbon Tetrachloride

Concen: 6.614 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN060788.D

Acq: 31 Mar 2020 16:05

Instrument :

MSVOA_N

ClientSampled :

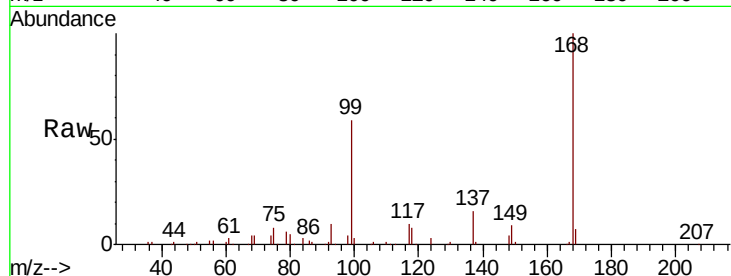
Tot Ion:117 Resp: 19326

Ion Ratio Lower Upper

117 100

119 4.9 76.2 114.2#

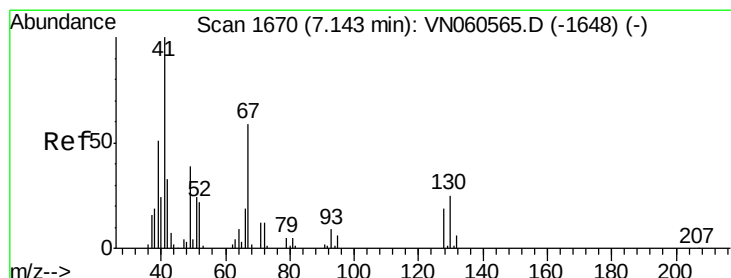
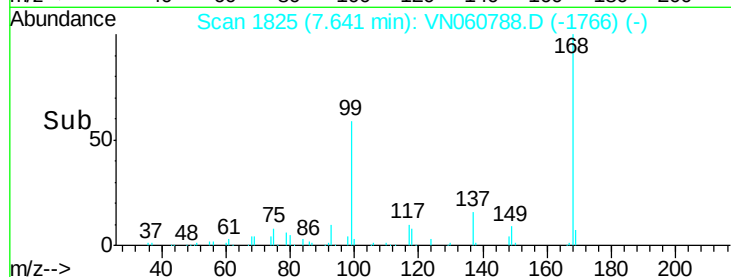
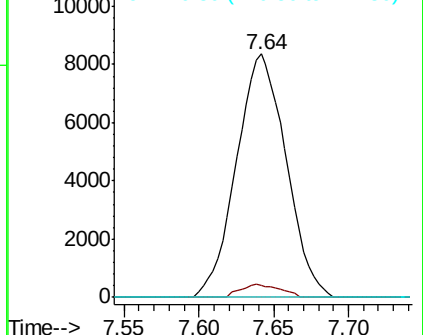
121 0.0 23.7 35.5#



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: 0.611 ug/l

RT: 7.14 min Scan# 1670

Delta R.T. 0.00 min

Lab File: VN060788.D

Acq: 31 Mar 2020 16:05

Tgt Ion: 41 Resp: 918

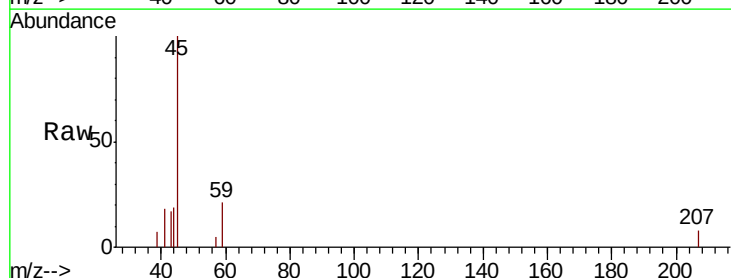
Ion Ratio Lower Upper

41 100

39 28.8 0.0 0.0#

67 0.0 0.0 0.0

52 0.0 0.0 0.0

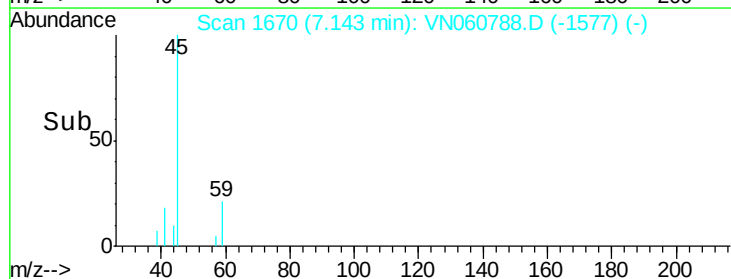
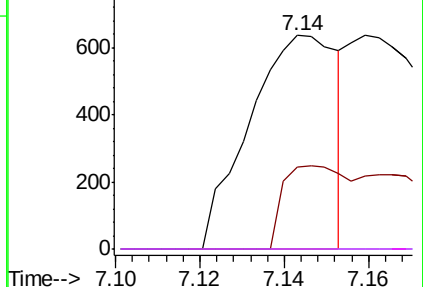


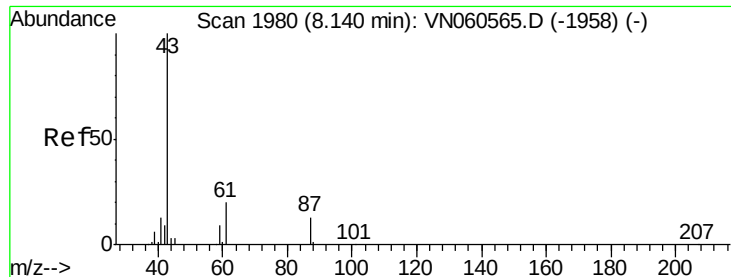
Abundance Ion 41.00 (40.70 to 41.70): V

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: 2.250 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060788.D

Acq: 31 Mar 2020 16:05

Instrument :

MSVOA_N

ClientSampleId :

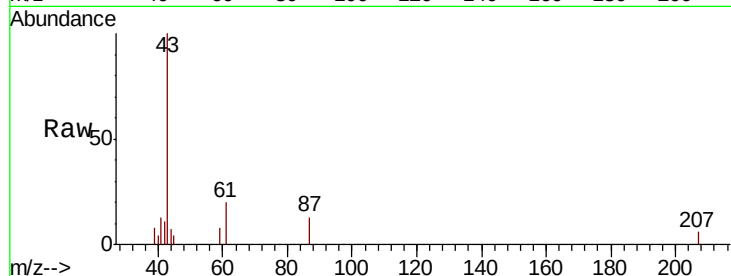
Tot Ion: 43 Resp: 13072

Ion Ratio Lower Upper

43 100

61 18.8 20.7 31.1#

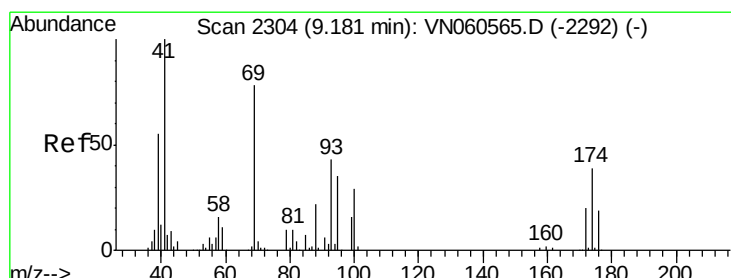
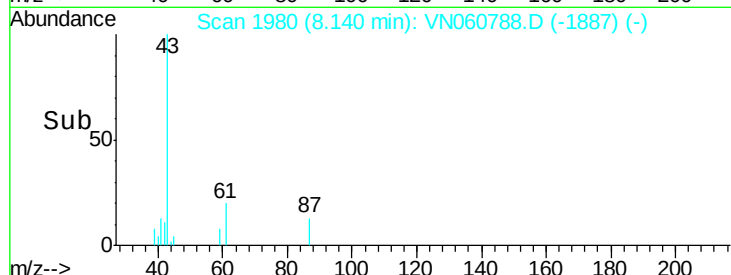
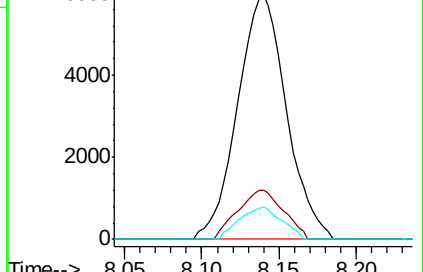
87 11.4 9.8 14.8



Abundance Ion 43.00 (42.70 to 43.70): VN060788.D (-1887) (-)

Ion 61.00 (60.70 to 61.70): VN060788.D (-1887) (-)

Ion 87.00 (86.70 to 87.70): VN060788.D (-1887) (-)



#48

Methyl methacrylate

Concen: 1.437 ug/l

RT: 9.16 min Scan# 2298

Delta R.T. -0.02 min

Lab File: VN060788.D

Acq: 31 Mar 2020 16:05

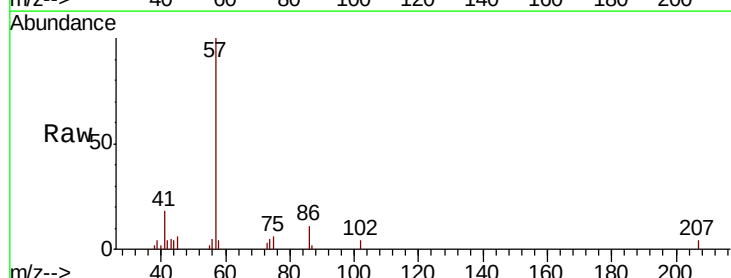
Tgt Ion: 41 Resp: 3717

Ion Ratio Lower Upper

41 100

69 0.0 65.4 98.0#

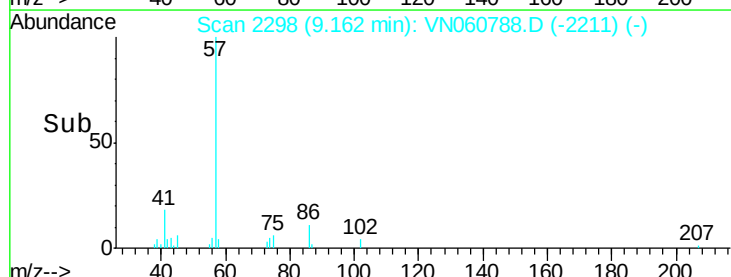
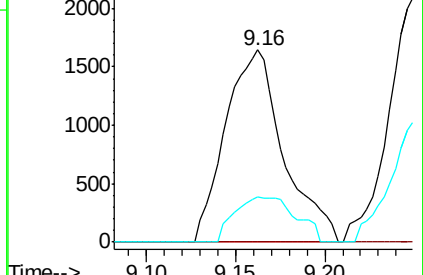
39 24.7 44.0 66.0#

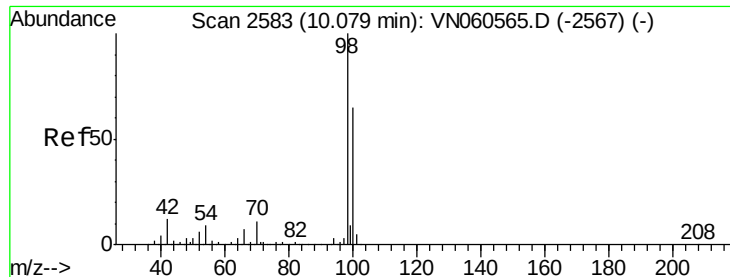


Abundance Ion 41.00 (40.70 to 41.70): VN060788.D (-2211) (-)

Ion 69.00 (68.70 to 69.70): VN060788.D (-2211) (-)

Ion 39.00 (38.70 to 39.70): VN060788.D (-2211) (-)





#50

Toluene-d8

Concen: 50.071 ug/l

RT: 10.08 min Scan# 2582

Delta R.T. -0.00 min

Lab File: VN060788.D

Acq: 31 Mar 2020 16:05

Instrument :

MSVOA_N

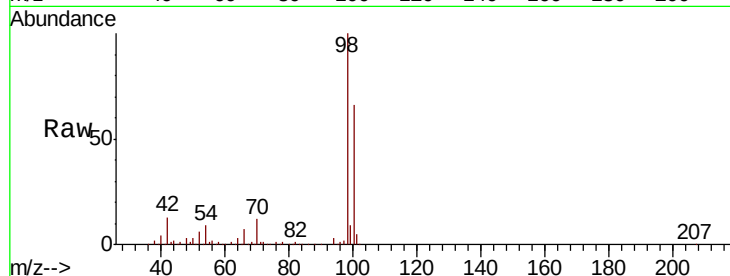
ClientSampled :

Tot Ion: 98 Resp: 416388

Ion Ratio Lower Upper

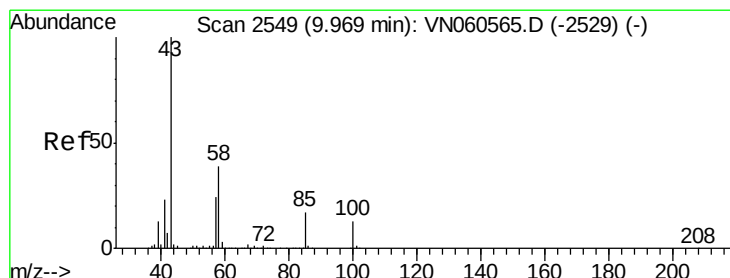
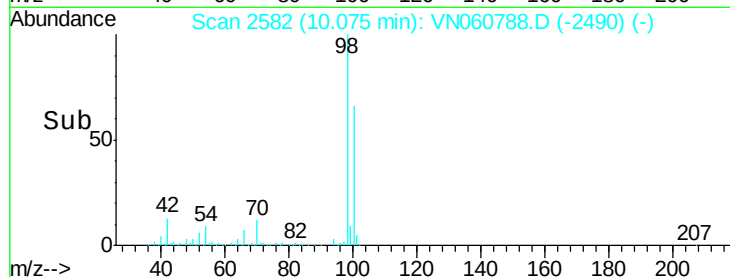
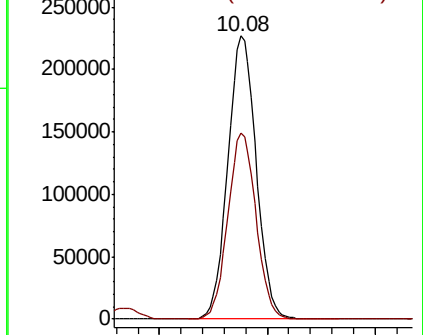
98 100

100 65.4 51.8 77.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#51

4-Methyl-2-Pentanone

Concen: 37.604 ug/l

RT: 9.97 min Scan# 2548

Delta R.T. -0.00 min

Lab File: VN060788.D

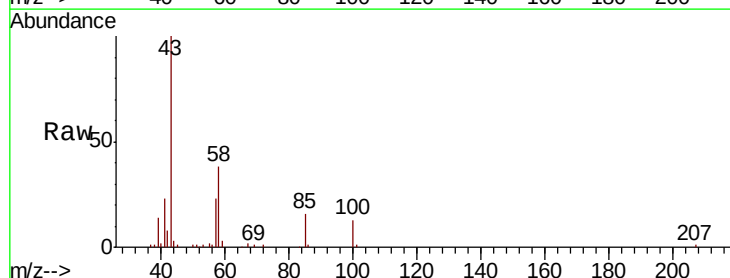
Acq: 31 Mar 2020 16:05

Tgt Ion: 43 Resp: 124321

Ion Ratio Lower Upper

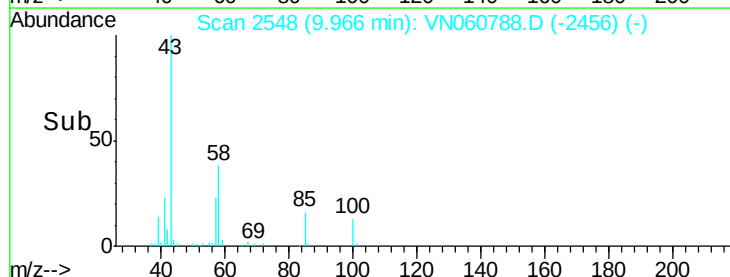
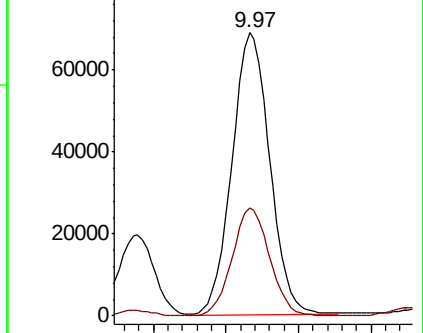
43 100

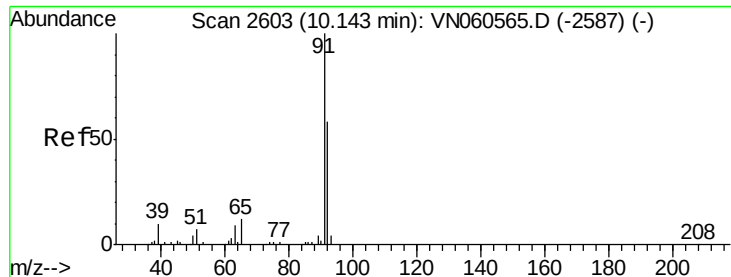
58 38.0 30.8 46.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#52

Toluene

Concen: 0.290 ug/l

RT: 10.14 min Scan# 2603

Delta R.T. 0.00 min

Lab File: VN060788.D

Acq: 31 Mar 2020 16:05

Instrument :

MSVOA_N

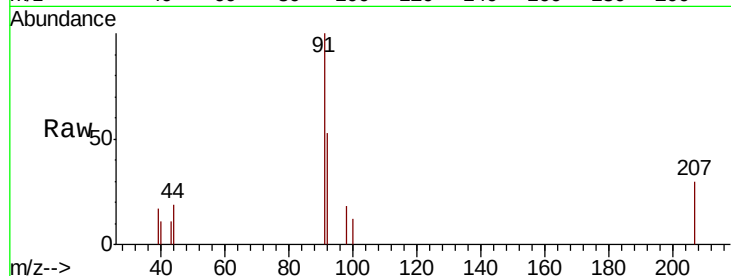
ClientSampleId :

Tot Ion: 92 Resp: 1725

Ion Ratio Lower Upper

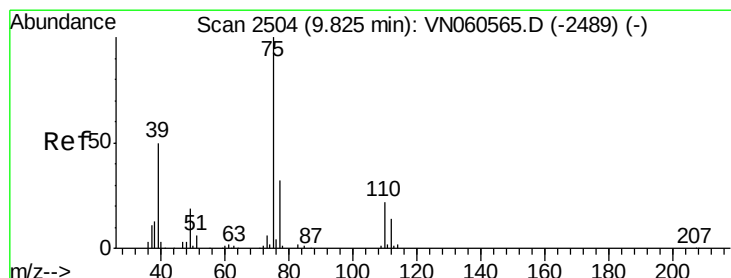
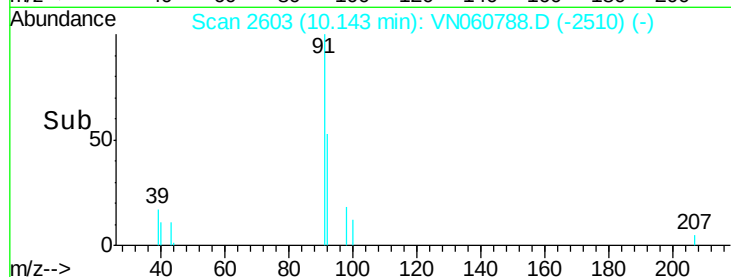
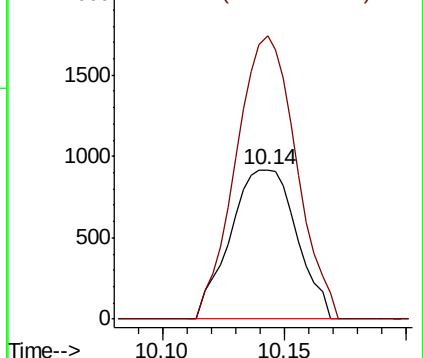
92 100

91 172.9 137.6 206.4



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 3.700 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060788.D

Acq: 31 Mar 2020 16:05

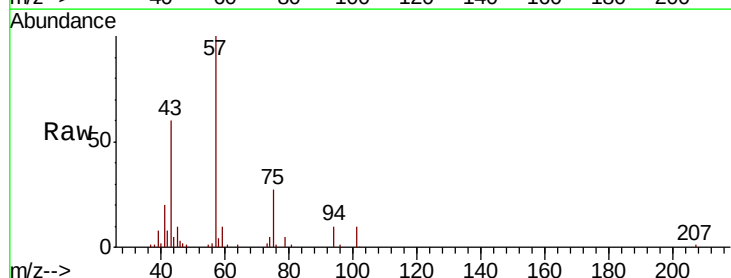
Tgt Ion: 75 Resp: 15211

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#

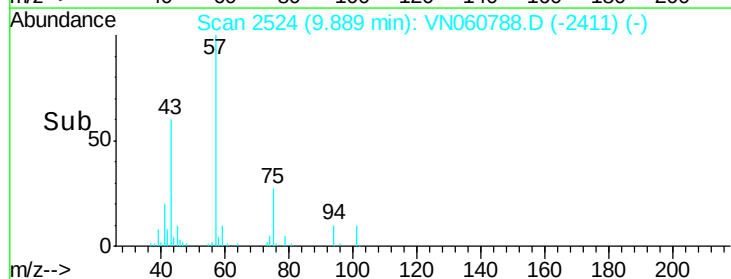
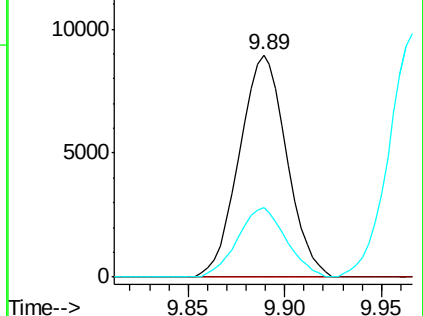
39 31.1 40.2 60.4#

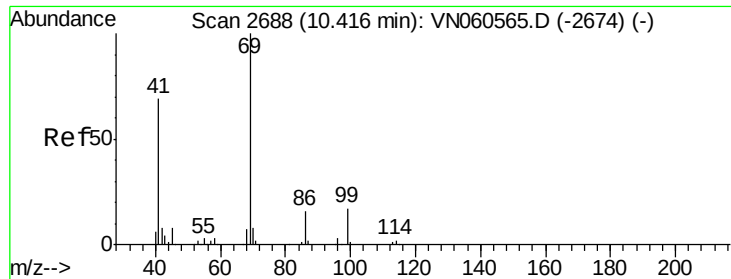


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#56

Ethyl methacrylate

Concen: 3.329 ug/l

RT: 10.34 min Scan# 2664

Delta R.T. -0.08 min

Lab File: VN060788.D

Acq: 31 Mar 2020 16:05

Instrument :

MSVOA_N

ClientSampleId :

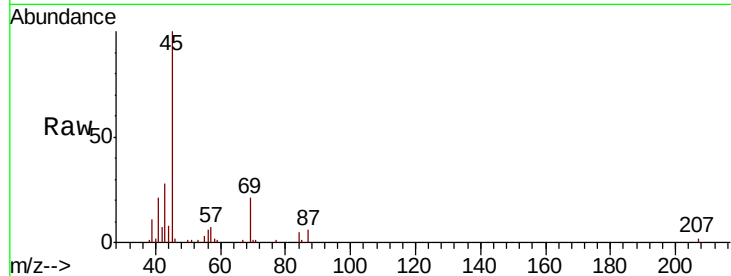
Tot Ion: 69 Resp: 11869

Ion Ratio Lower Upper

69 100

41 103.5 55.4 83.2#

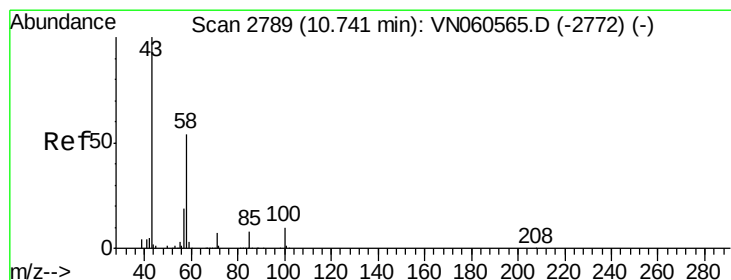
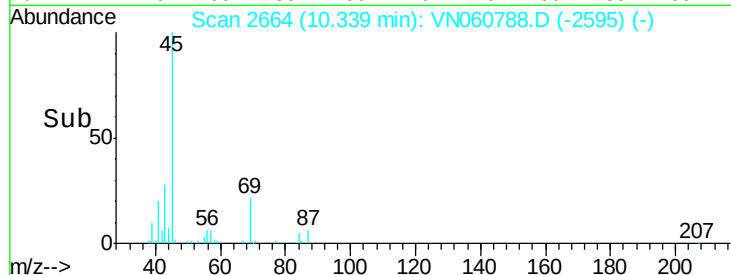
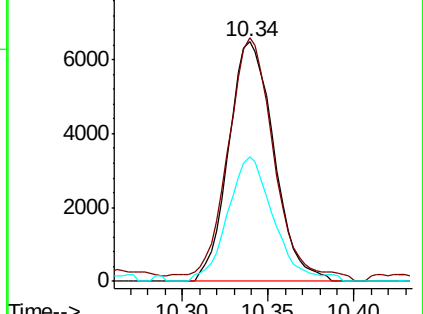
39 52.0 29.4 44.0#



Abundance Ion 69.00 (68.70 to 69.70): VN060788.D (-2595) (-)

Ion 41.00 (40.70 to 41.70): VN060788.D (-2595) (-)

Ion 39.00 (38.70 to 39.70): VN060788.D (-2595) (-)



#59

2-Hexanone

Concen: 4.129 ug/l

RT: 10.75 min Scan# 2792

Delta R.T. 0.01 min

Lab File: VN060788.D

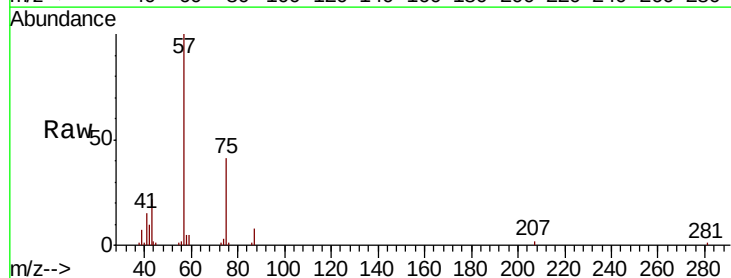
Acq: 31 Mar 2020 16:05

Tgt Ion: 43 Resp: 9834

Ion Ratio Lower Upper

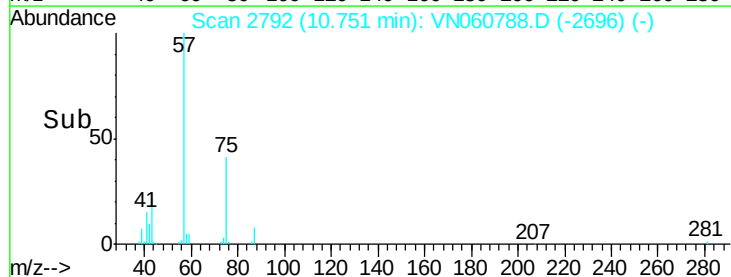
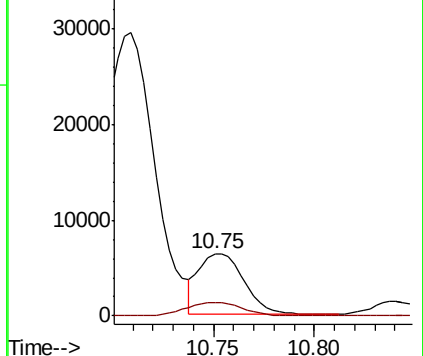
43 100

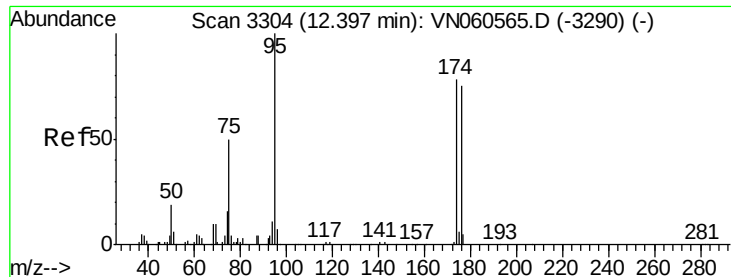
58 27.4 26.7 80.1



Abundance Ion 43.00 (42.70 to 43.70): VN060788.D (-2696) (-)

Ion 58.00 (57.70 to 58.70): VN060788.D (-2696) (-)





#62

4-Bromofluorobenzene

Concen: 50.917 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060788.D

Acq: 31 Mar 2020 16:05

Instrument :

MSVOA_N

ClientSampleId :

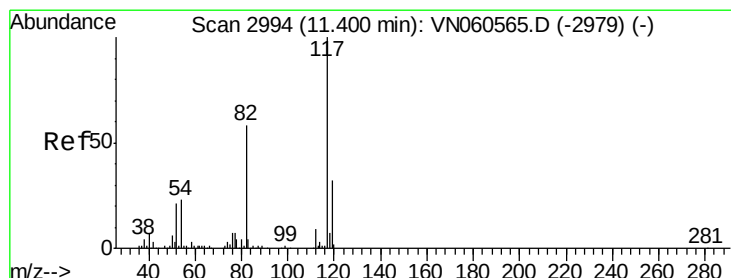
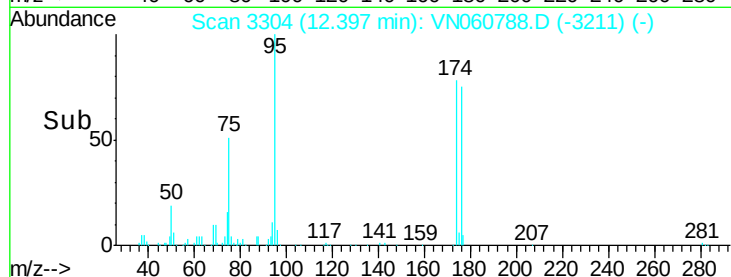
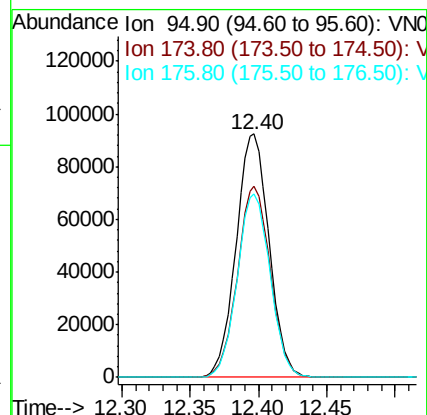
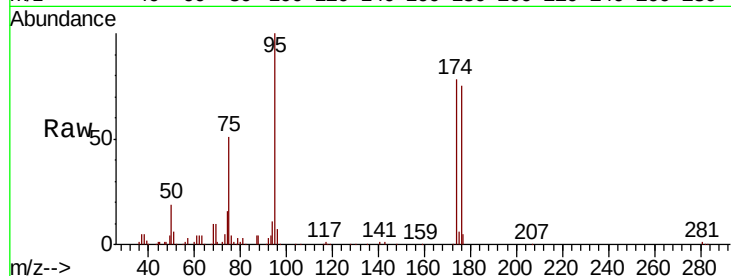
Tot Ion: 95 Resp: 155177

Ion Ratio Lower Upper

95 100

174 78.0 0.0 157.6

176 75.1 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: VN060788.D

Acq: 31 Mar 2020 16:05

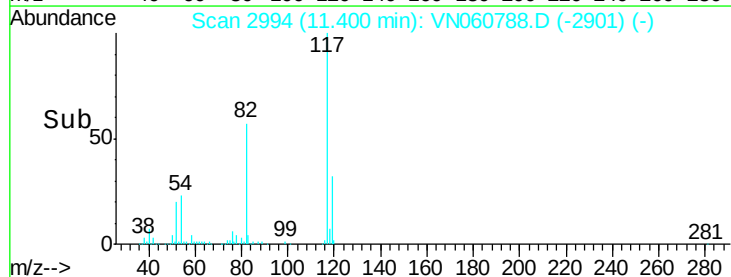
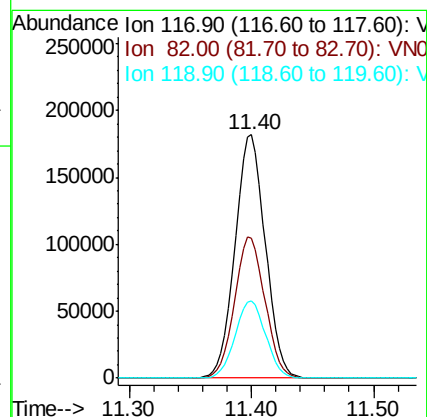
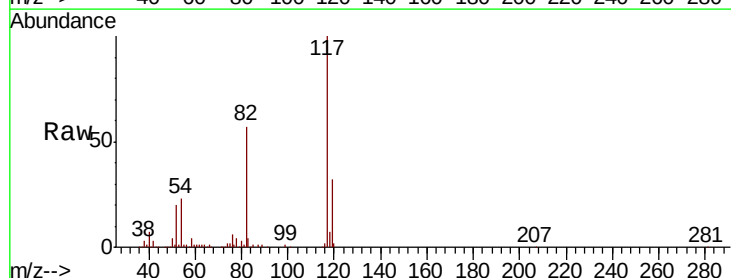
Tgt Ion: 117 Resp: 314392

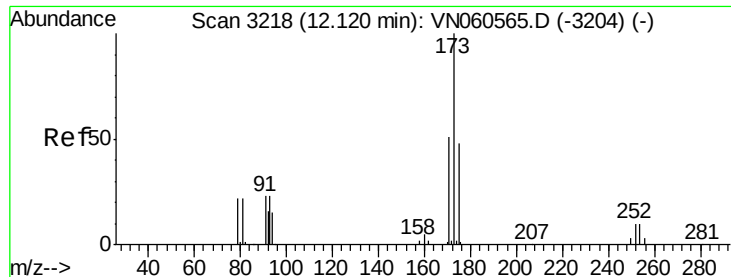
Ion Ratio Lower Upper

117 100

82 57.4 46.7 70.1

119 31.8 25.5 38.3





#71

Bromoform

Concen: 1.740 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN060788.D

Acq: 31 Mar 2020 16:05

Instrument :

MSVOA_N

ClientSampleId :

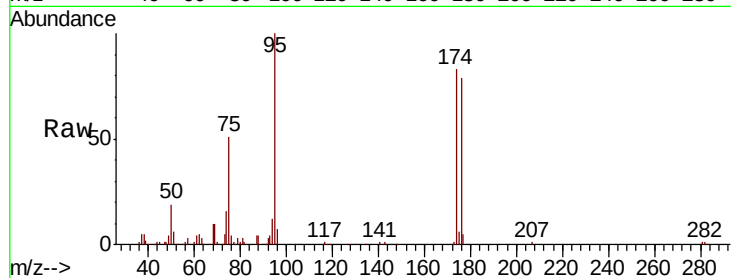
Tot Ion:173 Resp: 116

Ion Ratio Lower Upper

173 100

175 6664.7 24.1 72.4#

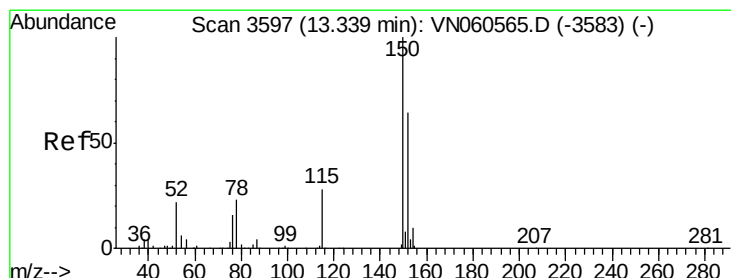
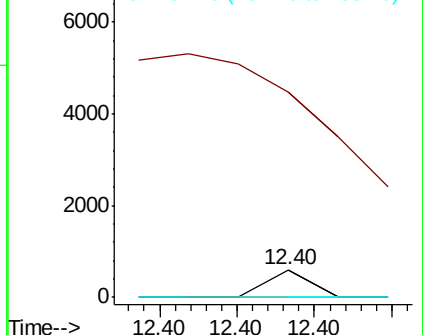
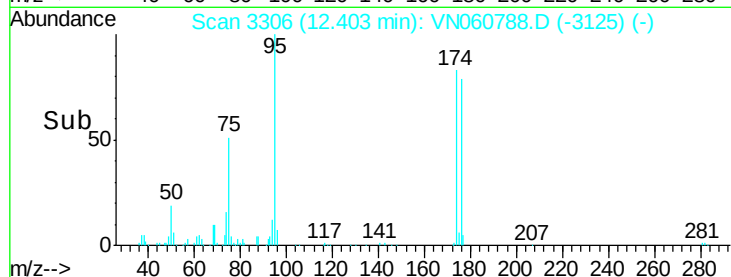
254 0.0 0.0 0.0



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: VN060788.D

Acq: 31 Mar 2020 16:05

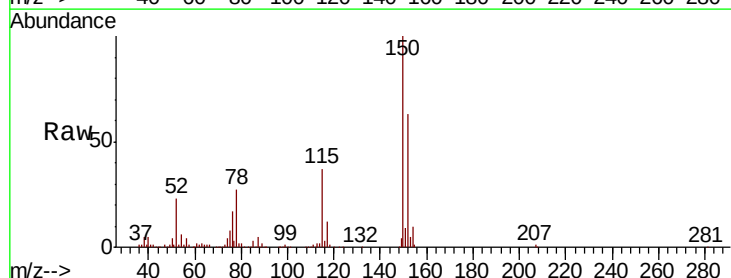
Tgt Ion:152 Resp: 145335

Ion Ratio Lower Upper

152 100

115 59.9 30.2 90.6

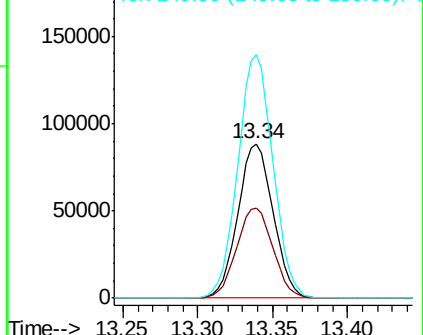
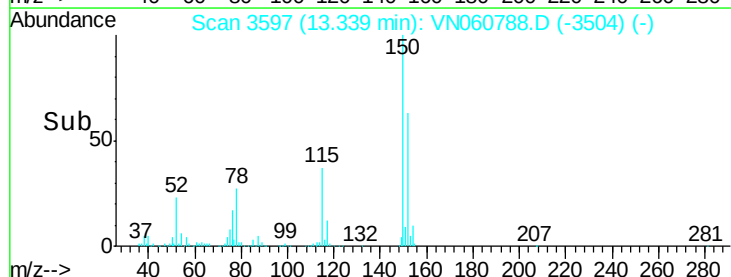
150 157.3 0.0 350.2

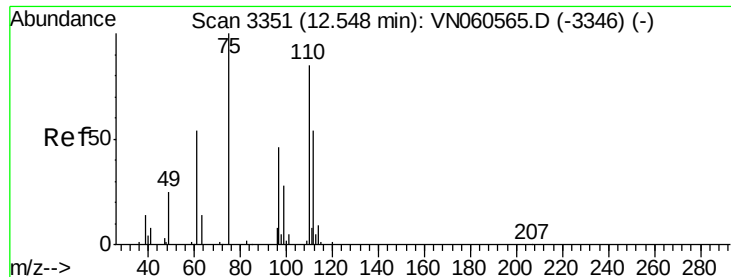


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 25.122 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060788.D

Acq: 31 Mar 2020 16:05

Instrument :

MSVOA_N

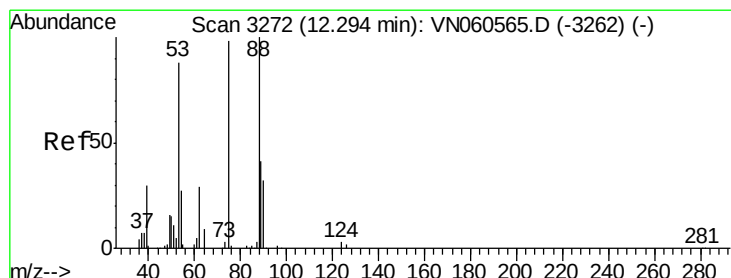
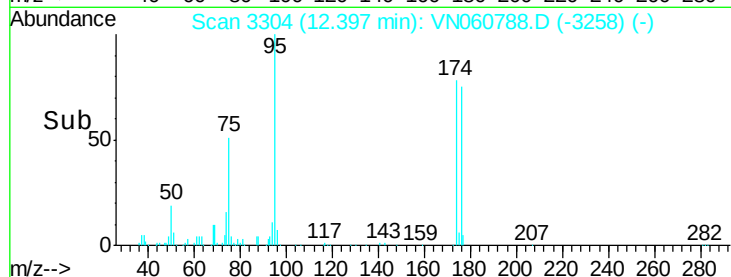
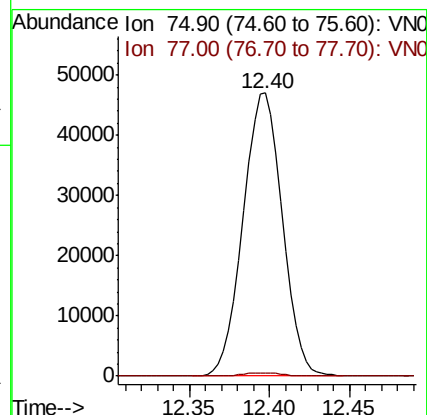
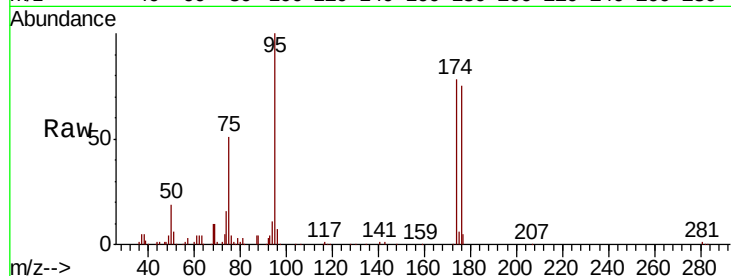
ClientSampled :

Tot Ion: 75 Resp: 78784

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 64.521 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060788.D

Acq: 31 Mar 2020 16:05

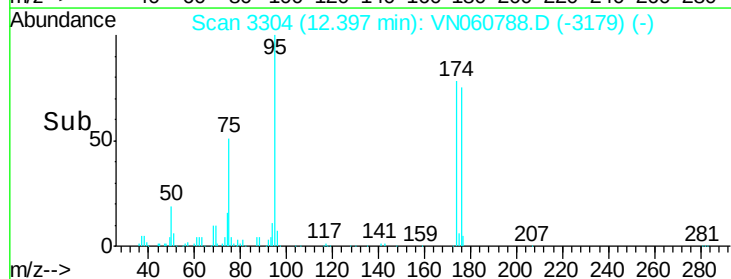
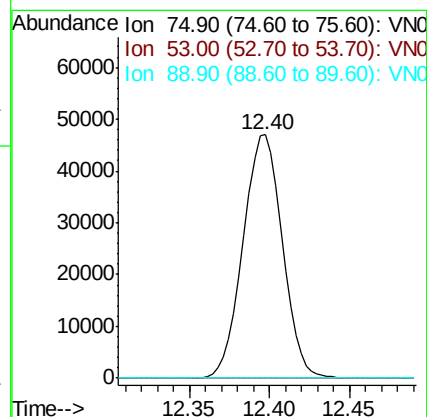
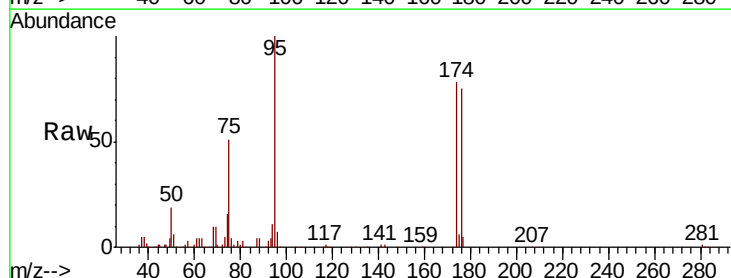
Tgt Ion: 75 Resp: 78784

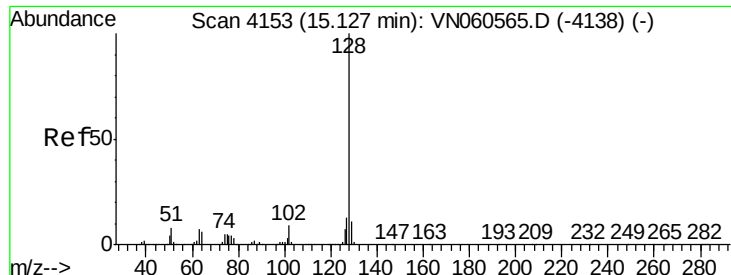
Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.4#

89 0.0 34.8 52.2#





#95

Naphthalene

Concen: 0.404 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN060788.D

Acq: 31 Mar 2020 16:05

Instrument :

MSVOA_N

ClientSampleId :

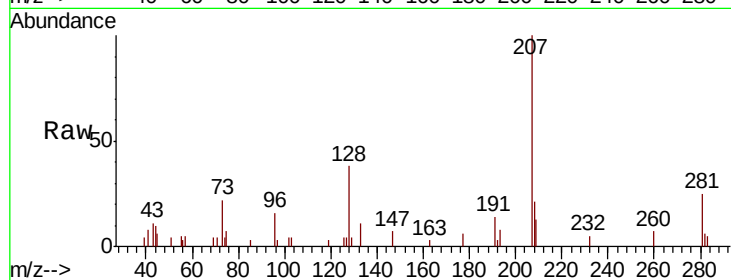
Tot Ion:128 Resp: 3305

Ion Ratio Lower Upper

128 100

127 8.3 10.2 15.2#

129 6.1 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

