

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN040220\
 Data File : VN060832.D
 Acq On : 2 Apr 2020 19:20
 Operator : JC/MD
 Sample : L2103-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 03 07:45:08 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	199194	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	329354	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	309689	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	141467	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	128379	46.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.90%	
35) Dibromofluoromethane	7.57	113	98769	49.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.20%	
50) Toluene-d8	10.08	98	408993	50.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.56%	
62) 4-Bromofluorobenzene	12.40	95	151722	50.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.78%	

Target Compounds

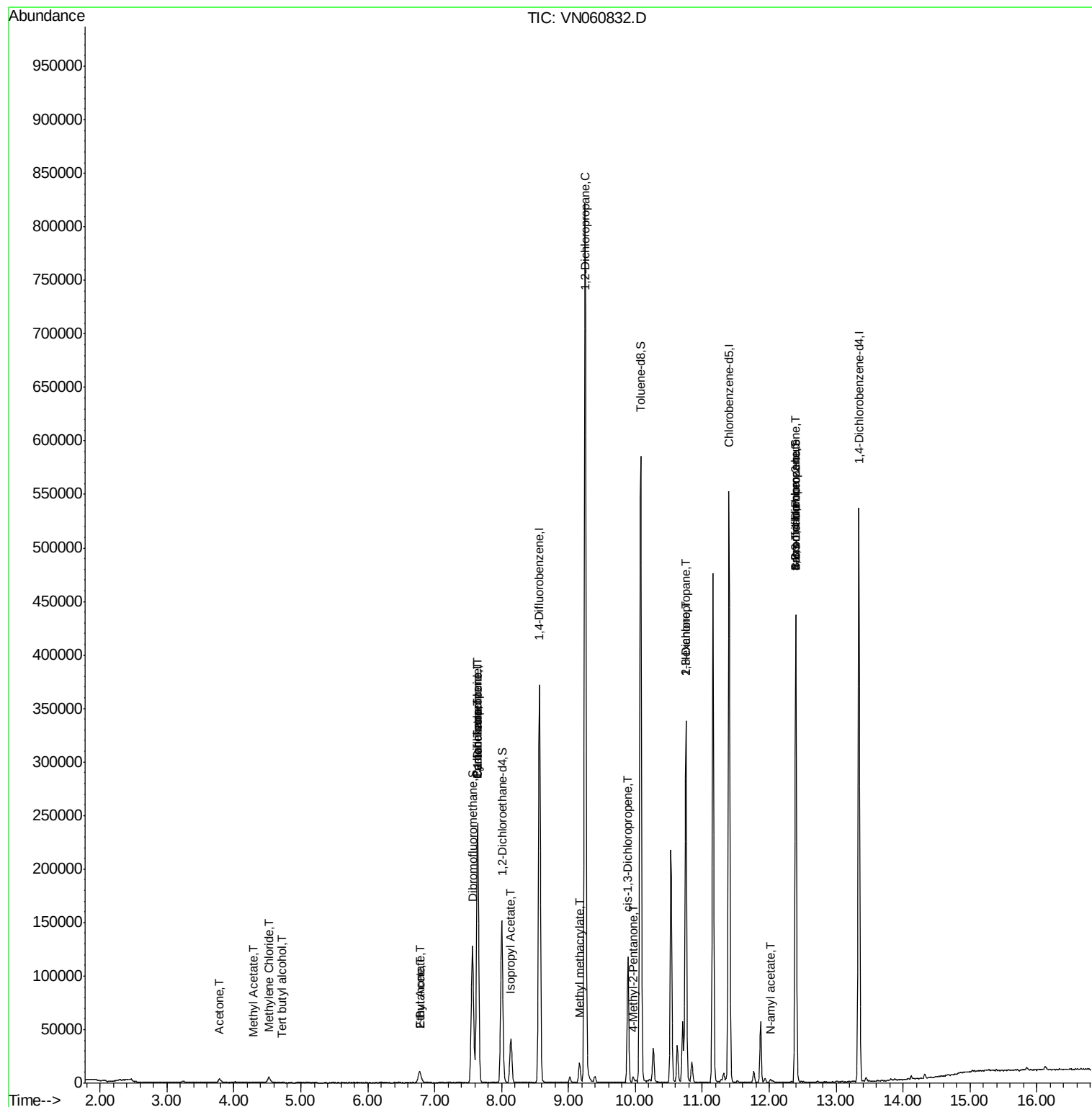
						Qvalue
11) Tert butyl alcohol	4.72	59	192	0.477	ug/l #	72
16) Acetone	3.78	43	6746	6.965	ug/l	100
18) Methyl Acetate	4.29	43	853	0.313	ug/l #	54
20) Methylene Chloride	4.52	84	4007	1.682	ug/l	95
25) 2-Butanone	6.80	43	3609	2.303	ug/l	99
31) Cyclohexane	7.64	56	4268	0.969	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	15352	4.814	ug/l #	50
37) Ethyl Acetate	6.80	43	3609	1.047	ug/l #	70
38) Carbon Tetrachloride	7.64	117	19344	6.768	ug/l #	16
43) Isopropyl Acetate	8.14	43	51118	8.995	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	864	0.340	ug/l #	43
48) Methyl methacrylate	9.16	41	2761	1.091	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	3047	0.942	ug/l	90
54) cis-1,3-Dichloropropene	9.89	75	20636	5.131	ug/l #	61
57) 1,3-Dichloropropane	10.75	76	3490	0.899	ug/l #	42
59) 2-Hexanone	10.75	43	50899	21.849	ug/l #	53
71) Bromoform	12.39	173	457	1.920	ug/l #	1
74) N-amyl acetate	12.02	43	2636	0.537	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	76166	24.951	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	76166	64.083	ug/l #	13

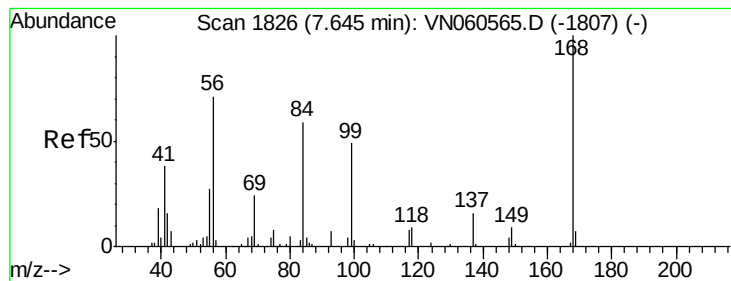
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN060832.D

Acq: 2 Apr 2020 19:20

Instrument :

MSVOA_N

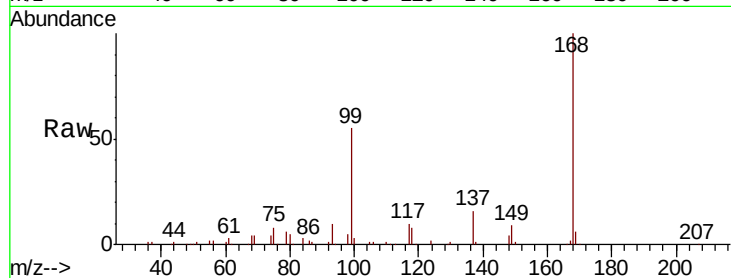
ClientSampleId :

Tot Ion:168 Resp: 199194

Ion Ratio Lower Upper

168 100

99 55.4 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): VN060832.D (-1733) (-)

Ion 98.90 (98.60 to 99.60): VN060832.D (-1733) (-)

7.64

80000

60000

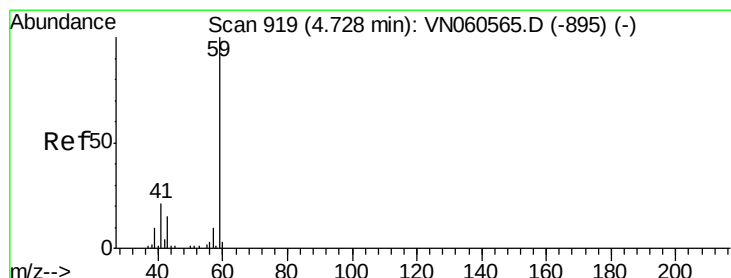
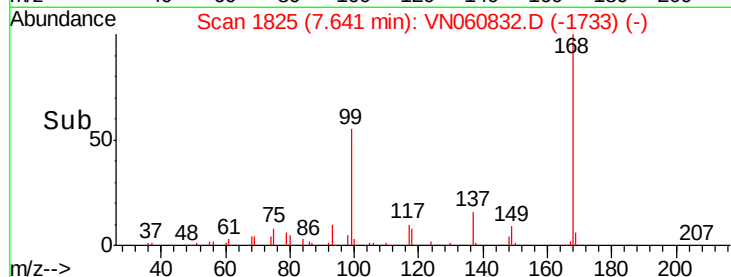
40000

20000

0

7.55 7.60 7.65 7.70 7.75

Time-->



#11

Tert butyl alcohol

Concen: 0.477 ug/l

RT: 4.72 min Scan# 915

Delta R.T. -0.01 min

Lab File: VN060832.D

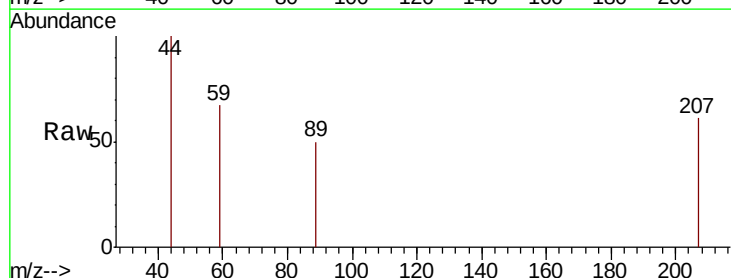
Acq: 2 Apr 2020 19:20

Tgt Ion: 59 Resp: 192

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VN060832.D (-826) (-)

Ion 57.00 (56.70 to 57.70): VN060832.D (-826) (-)

4.72

250

200

150

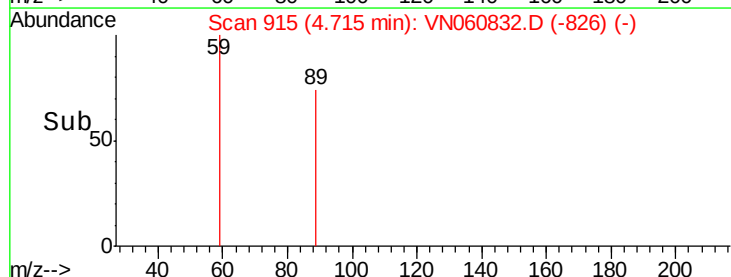
100

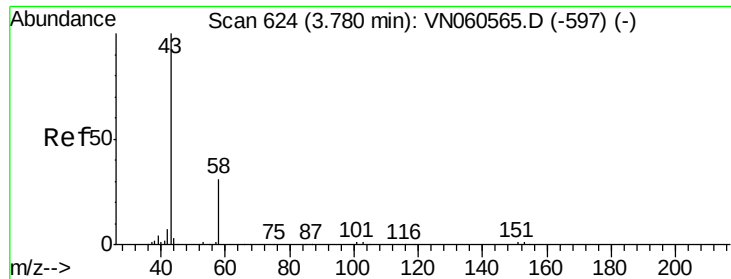
50

0

4.70 4.71 4.72

Time-->





#16

Acetone

Concen: 6.965 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.00 min

Lab File: VN060832.D

Acq: 2 Apr 2020 19:20

Instrument :

MSVOA_N

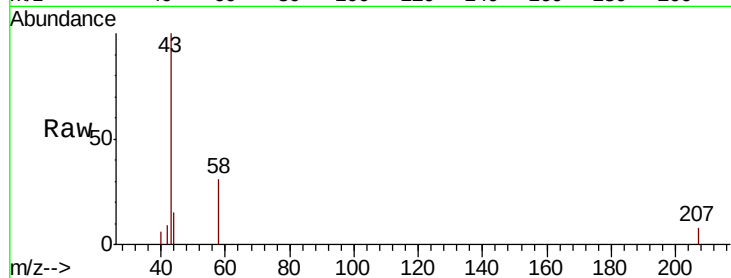
ClientSampled :

Tot Ion: 43 Resp: 6746

Ion Ratio Lower Upper

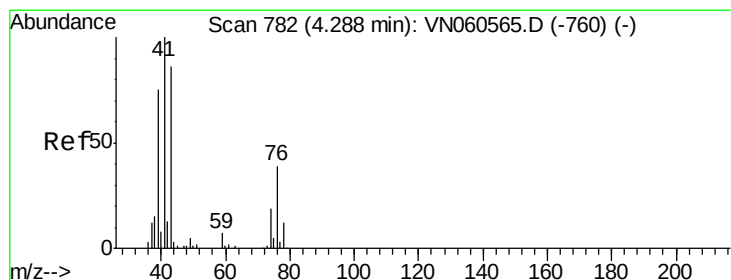
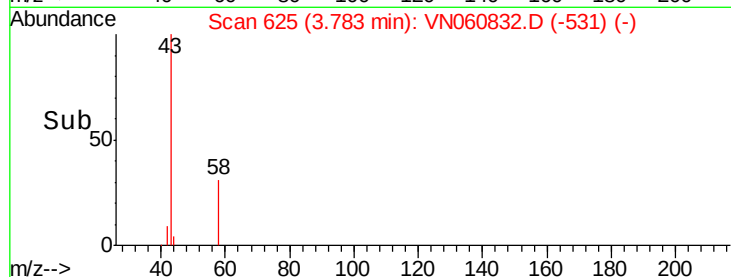
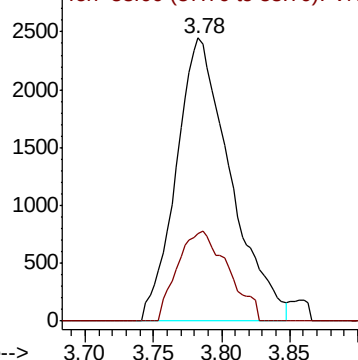
43 100

58 31.1 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 0.313 ug/l

RT: 4.29 min Scan# 783

Delta R.T. 0.00 min

Lab File: VN060832.D

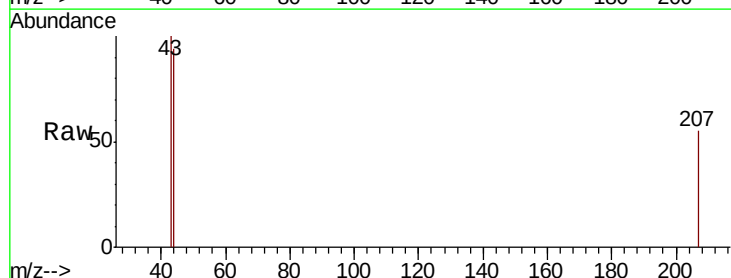
Acq: 2 Apr 2020 19:20

Tgt Ion: 43 Resp: 853

Ion Ratio Lower Upper

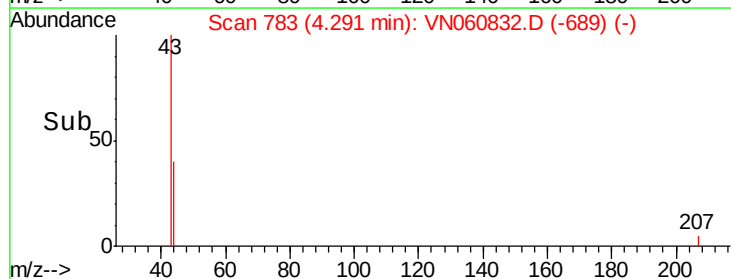
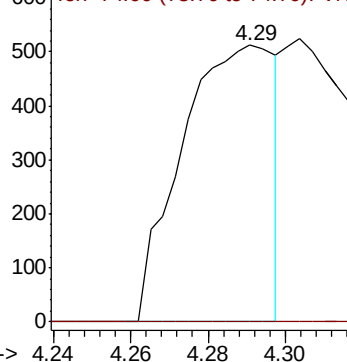
43 100

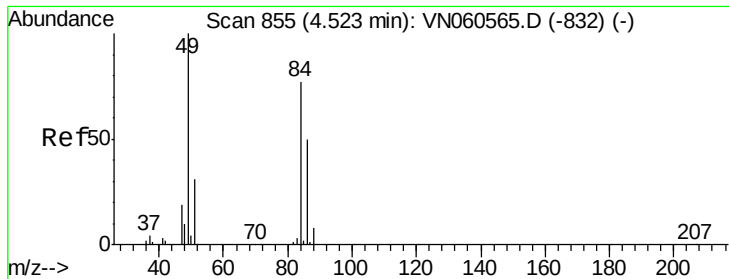
74 0.0 17.5 26.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#20

Methvlene Chloride

Concen: 1.682 ug/l

RT: 4.52 min Scan# 854

Delta R.T. -0.00 min

Lab File: VN060832.D

Acq: 2 Apr 2020 19:20

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 84 Resp: 4007

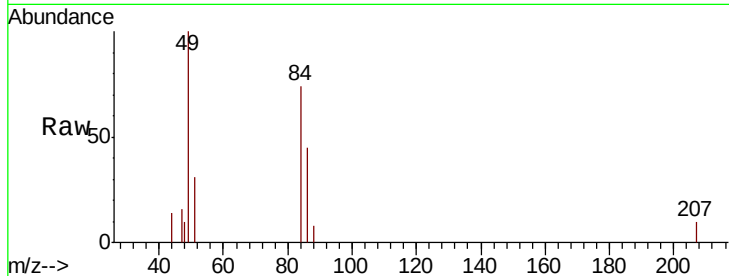
Ion Ratio Lower Upper

84 100

49 135.5 103.3 154.9

51 41.4 31.6 47.4

86 60.5 52.0 78.0

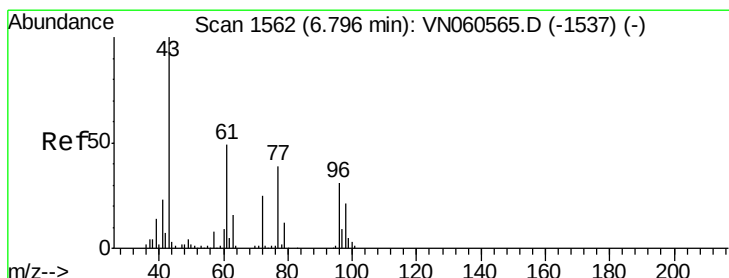
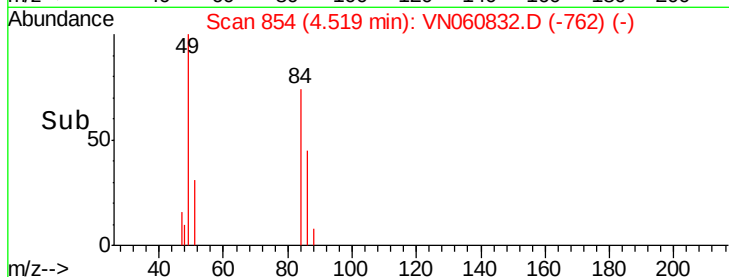
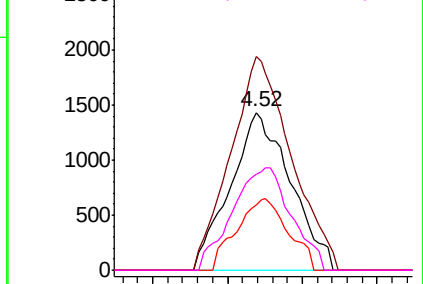


Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#25

2-Butanone

Concen: 2.303 ug/l

RT: 6.80 min Scan# 1562

Delta R.T. -0.00 min

Lab File: VN060832.D

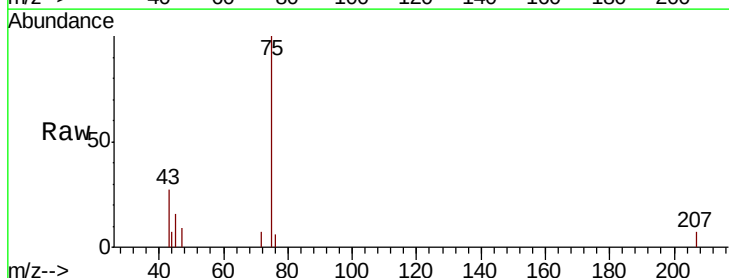
Acq: 2 Apr 2020 19:20

Tgt Ion: 43 Resp: 3609

Ion Ratio Lower Upper

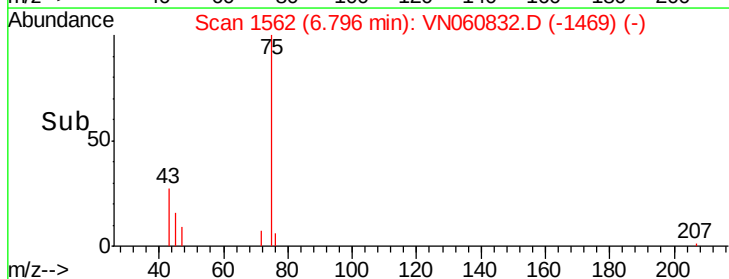
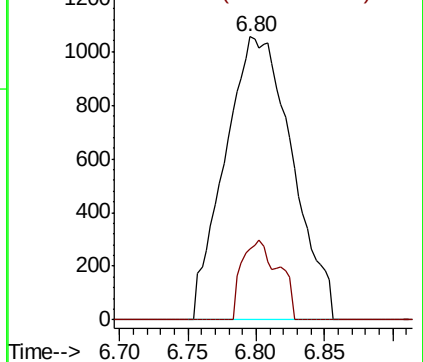
43 100

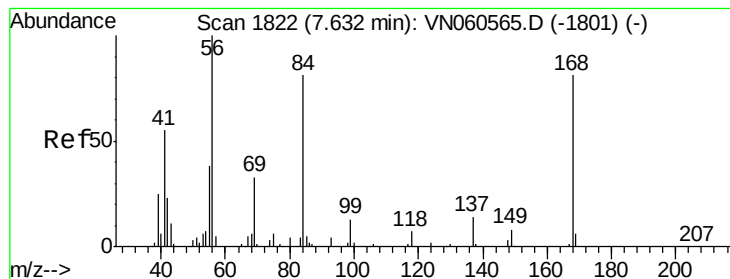
72 24.9 20.4 30.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0





#31

Cyclohexane

Concen: 0.969 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. 0.01 min

Lab File: VN060832.D

Acq: 2 Apr 2020 19:20

Instrument :

MSVOA_N

ClientSampleId :

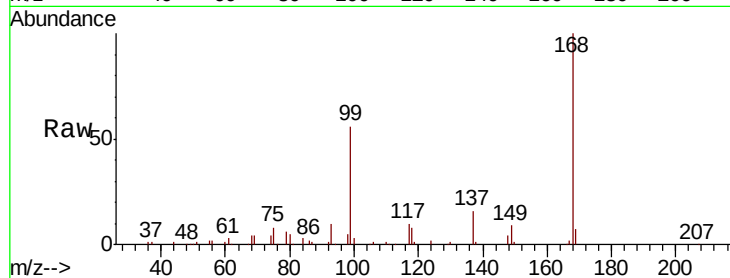
Tot Ion: 56 Resp: 4268

Ion Ratio Lower Upper

56 100

69 162.9 26.6 40.0#

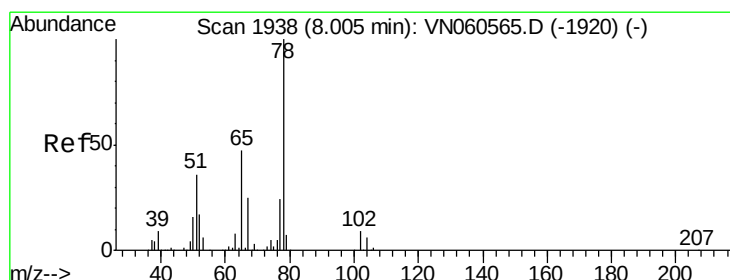
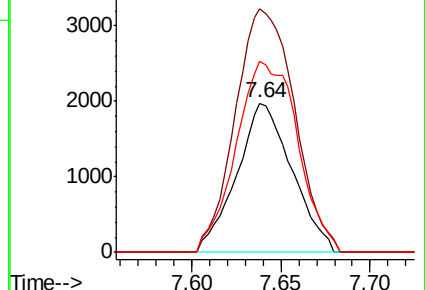
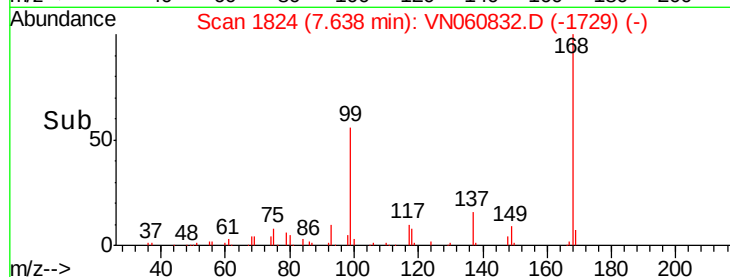
84 127.7 64.3 96.5#



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: 46.948 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. -0.00 min

Lab File: VN060832.D

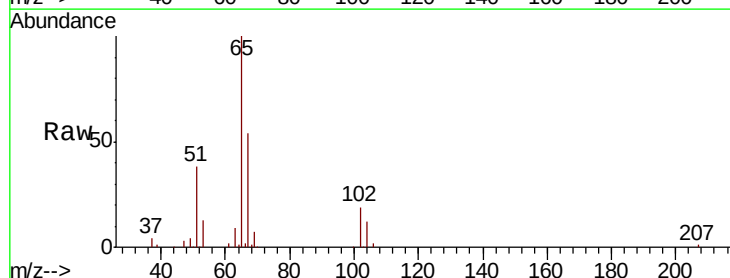
Acq: 2 Apr 2020 19:20

Tgt Ion: 65 Resp: 128379

Ion Ratio Lower Upper

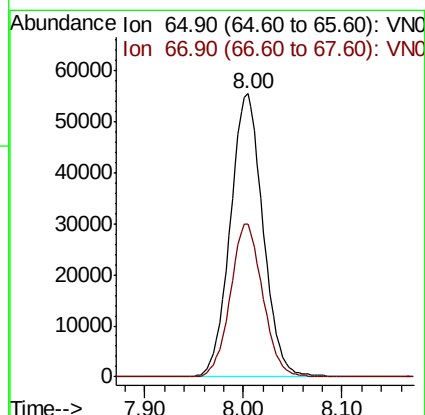
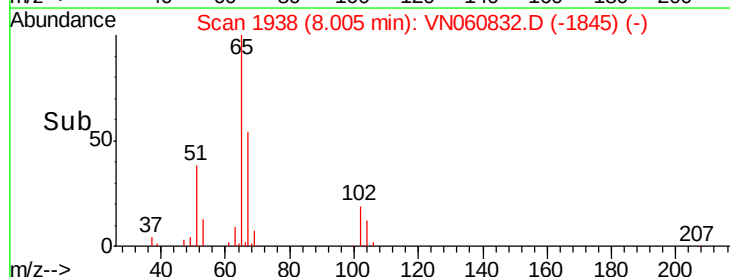
65 100

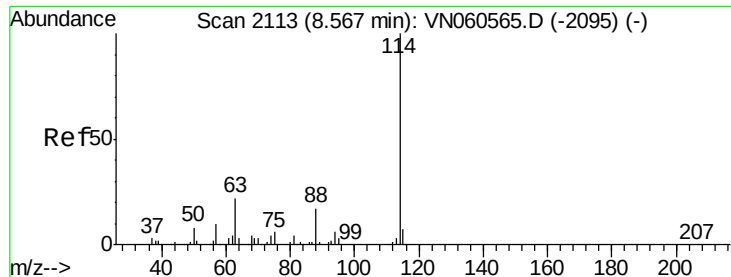
67 53.5 0.0 107.6



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

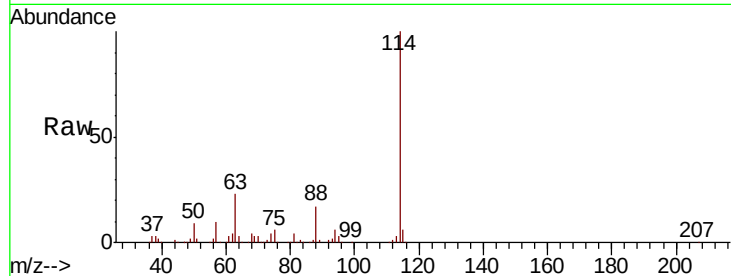




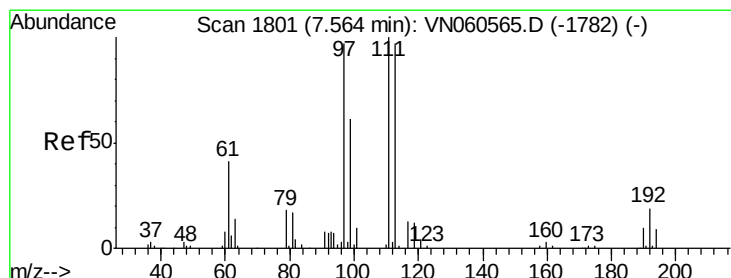
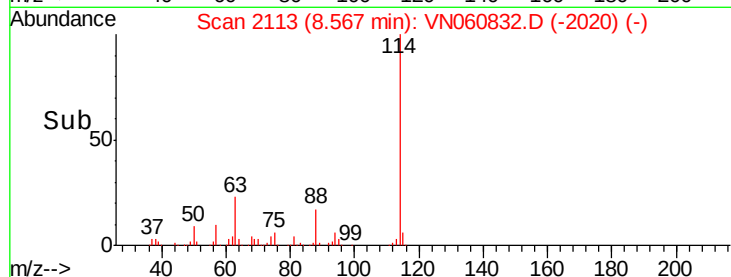
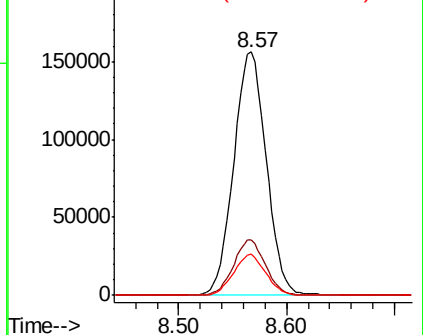
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VN060832.D
 Acq: 2 Apr 2020 19:20

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	22.6	0.0	43.8
88	16.7	0.0	33.0

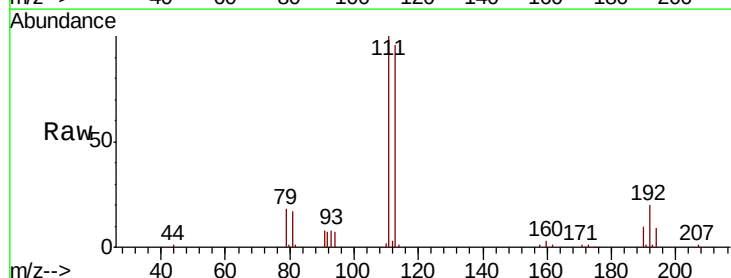


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

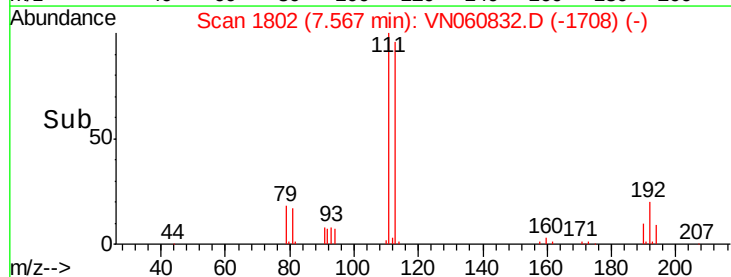
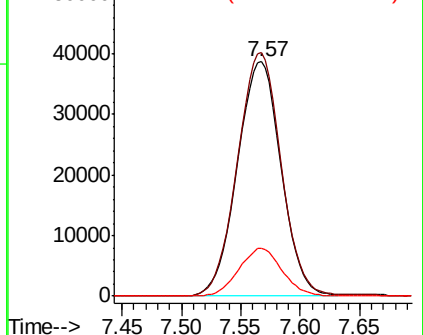


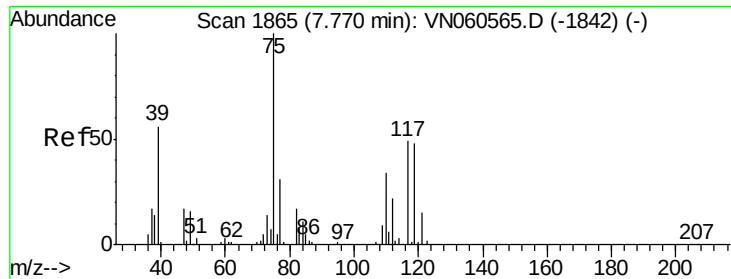
#35
 Dibromofluoromethane
 Concen: 49.595 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN060832.D
 Acq: 2 Apr 2020 19:20

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.7	82.9	124.3
192	20.0	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

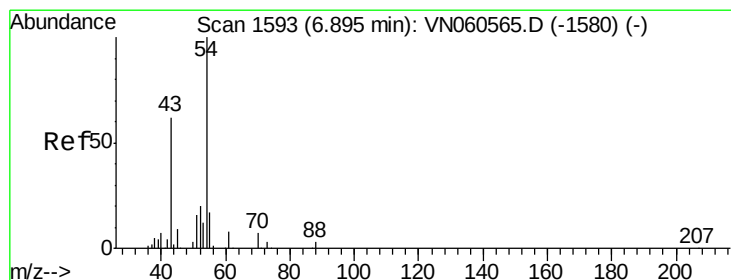
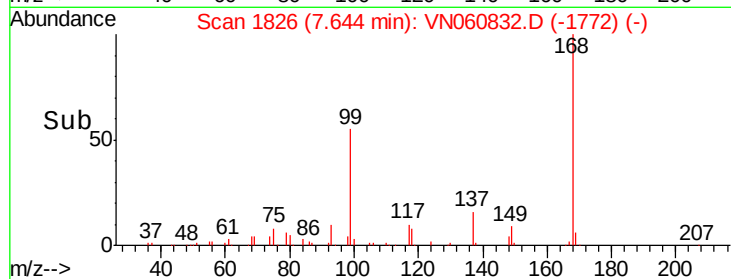
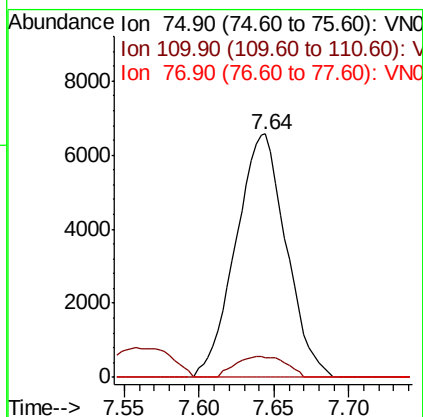
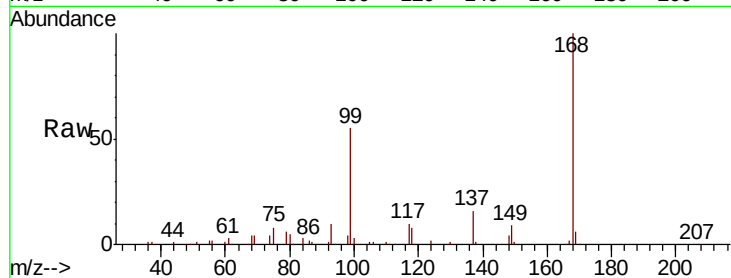




#36
 1,1-Dichloropropene
 Concen: 4.814 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN060832.D
 Acq: 2 Apr 2020 19:20

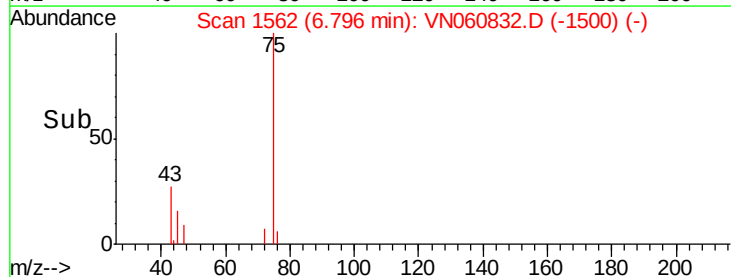
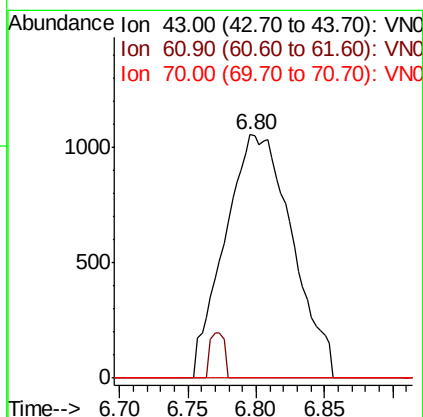
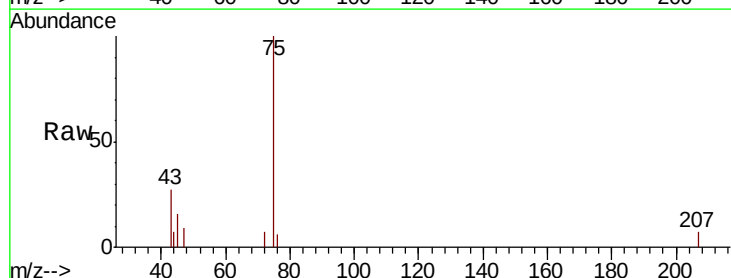
Instrument :
 MSVOA_N
 ClientSampleId :

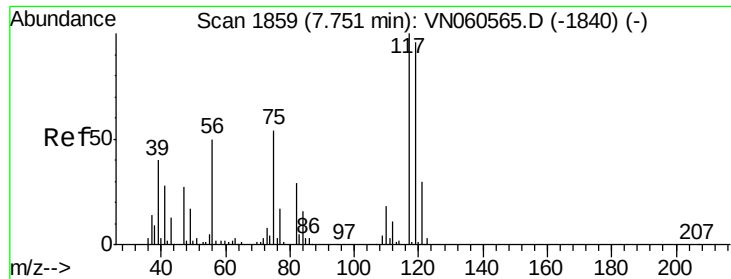
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.6	16.9	50.6#
77	0.0	24.6	36.8#



#37
 Ethyl Acetate
 Concen: 1.047 ug/l
 RT: 6.80 min Scan# 1562
 Delta R.T. -0.10 min
 Lab File: VN060832.D
 Acq: 2 Apr 2020 19:20

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: 6.768 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN060832.D

Acq: 2 Apr 2020 19:20

Instrument :

MSVOA_N

ClientSampled :

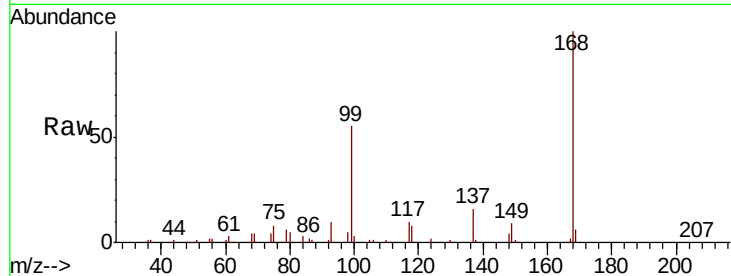
Tot Ion:117 Resp: 19344

Ion Ratio Lower Upper

117 100

119 5.0 76.2 114.2#

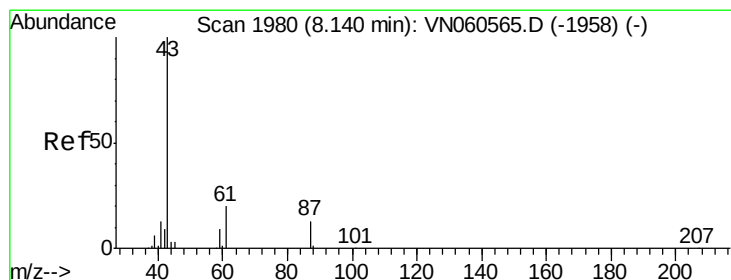
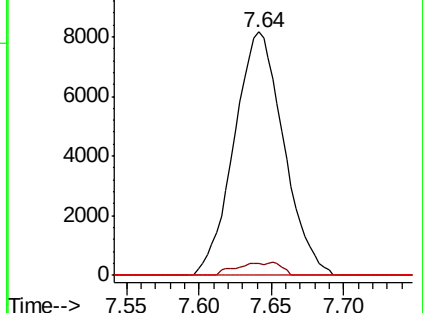
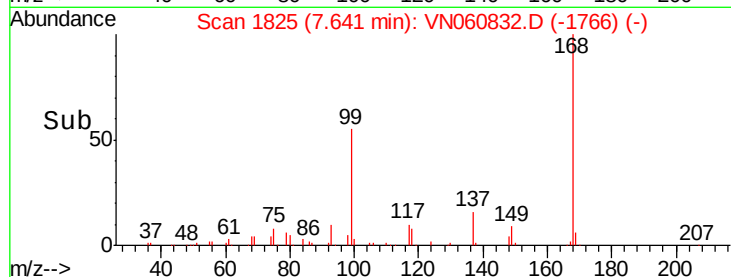
121 0.0 23.7 35.5#



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



#43

Isopropyl Acetate

Concen: 8.995 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. -0.00 min

Lab File: VN060832.D

Acq: 2 Apr 2020 19:20

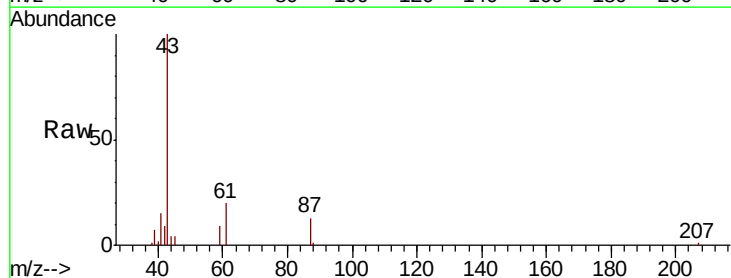
Tgt Ion: 43 Resp: 51118

Ion Ratio Lower Upper

43 100

61 18.6 20.7 31.1#

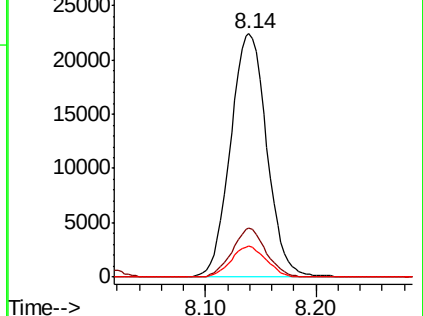
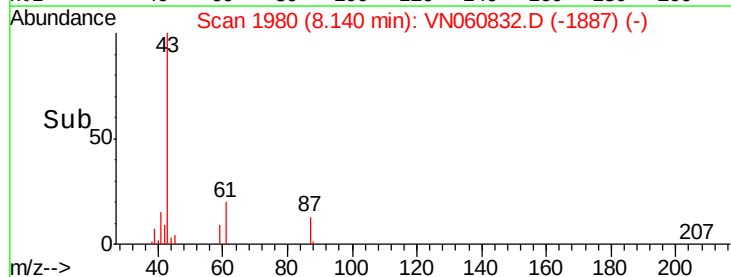
87 12.1 9.8 14.8

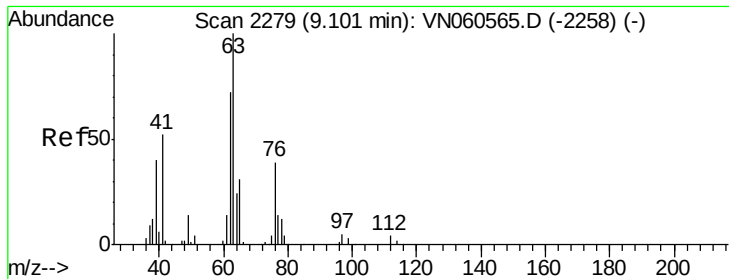


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.340 ug/l

RT: 9.25 min Scan# 2324

Delta R.T. 0.14 min

Lab File: VN060832.D

Acq: 2 Apr 2020 19:20

Instrument :

MSVOA_N

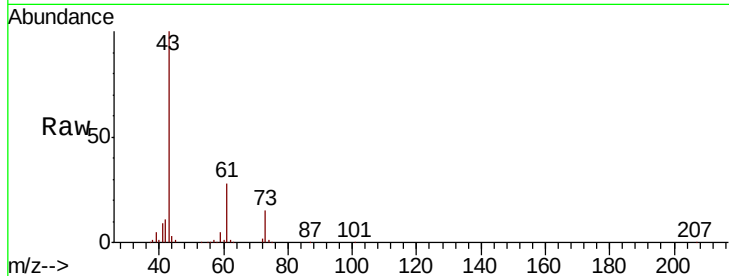
ClientSampleId :

Tot Ion: 63 Resp: 864

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.0#



Abundance Ion 62.90 (62.60 to 63.60): VNC

Ion 64.90 (64.60 to 65.60): VNC

9.25

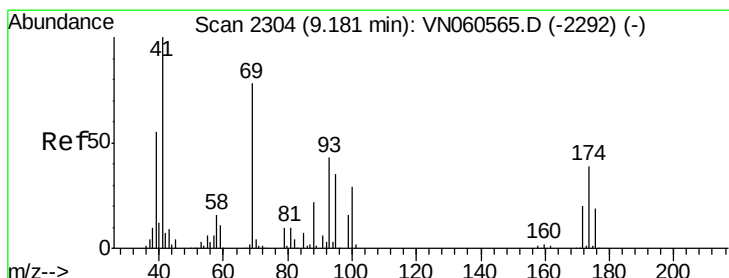
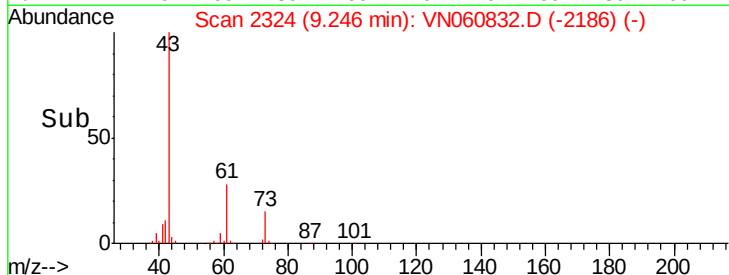
600

400

200

0

Time-->



#48

Methyl methacrylate

Concen: 1.091 ug/l

RT: 9.16 min Scan# 2297

Delta R.T. -0.02 min

Lab File: VN060832.D

Acq: 2 Apr 2020 19:20

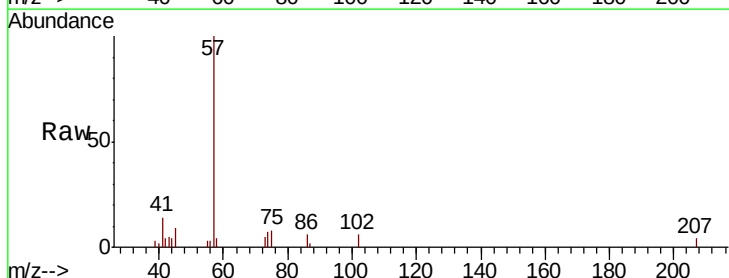
Tgt Ion: 41 Resp: 2761

Ion Ratio Lower Upper

41 100

69 0.0 65.4 98.0#

39 0.0 44.0 66.0#



Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 69.00 (68.70 to 69.70): VNC

Ion 39.00 (38.70 to 39.70): VNC

40000

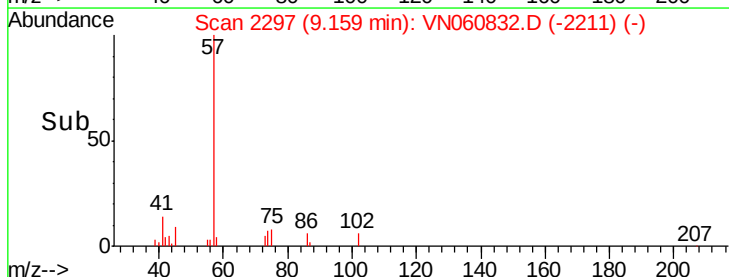
30000

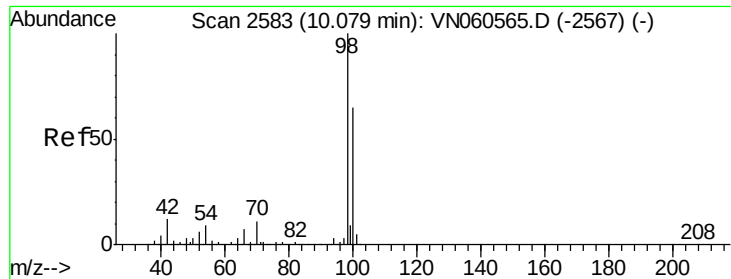
20000

10000

0

Time-->





#50

Toluene-d8

Concen: 50.279 ug/l

RT: 10.08 min Scan# 2582

Delta R.T. -0.00 min

Lab File: VN060832.D

Acq: 2 Apr 2020 19:20

Instrument :

MSVOA_N

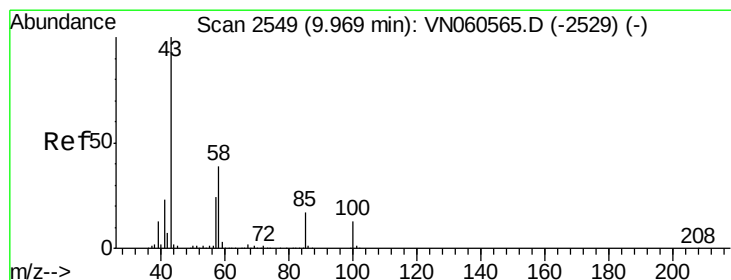
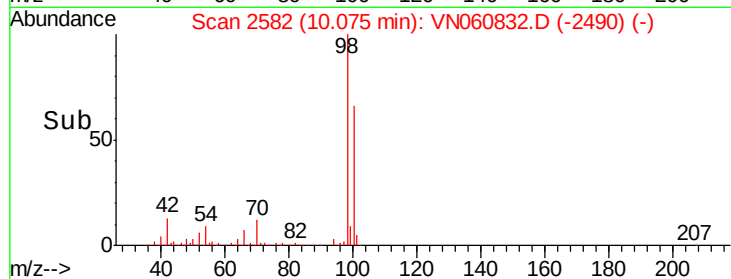
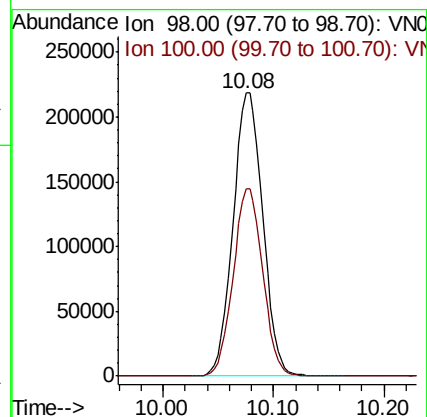
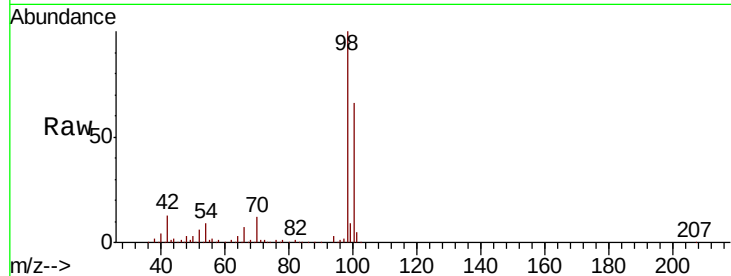
ClientSampleId :

Tot Ion: 98 Resp: 408993

Ion Ratio Lower Upper

98 100

100 65.6 51.8 77.8



#51

4-Methyl-2-Pentanone

Concen: 0.942 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. -0.00 min

Lab File: VN060832.D

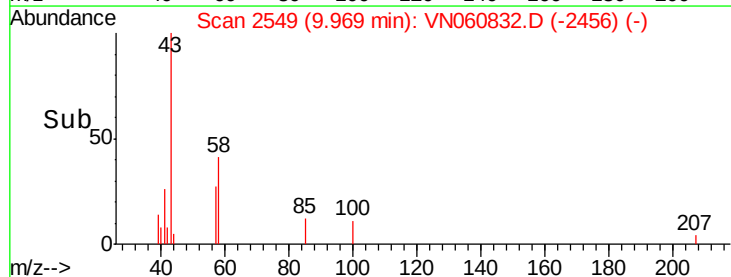
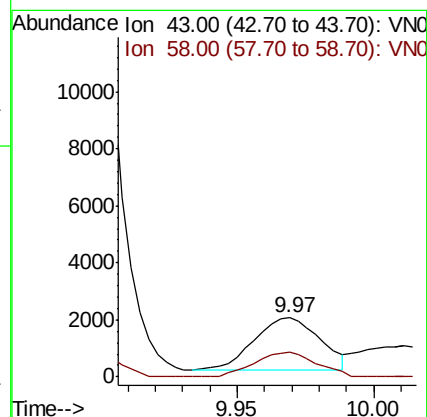
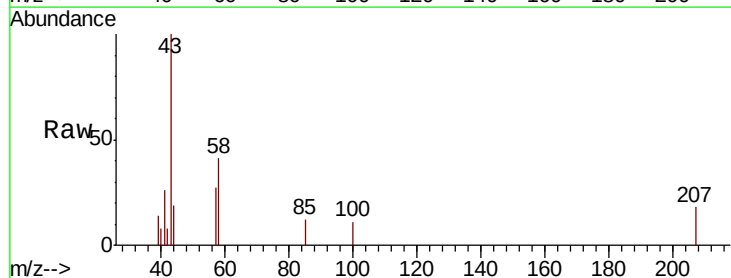
Acq: 2 Apr 2020 19:20

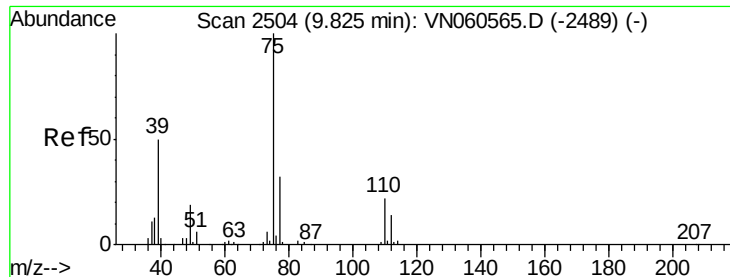
Tgt Ion: 43 Resp: 3047

Ion Ratio Lower Upper

43 100

58 44.7 30.8 46.2





#54

cis-1,3-Dichloropropene

Concen: 5.131 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060832.D

Acq: 2 Apr 2020 19:20

Instrument :

MSVOA_N

ClientSampleId :

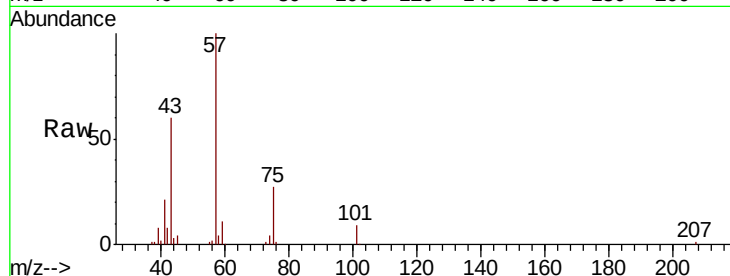
Tot Ion: 75 Resp: 20636

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#

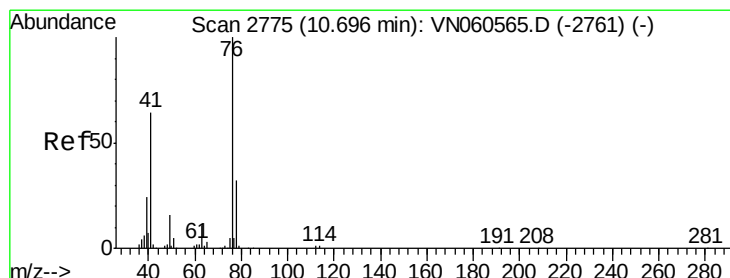
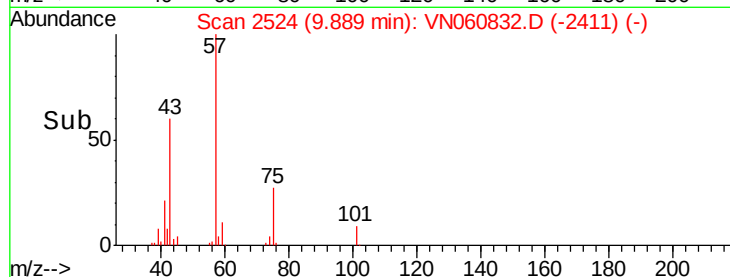
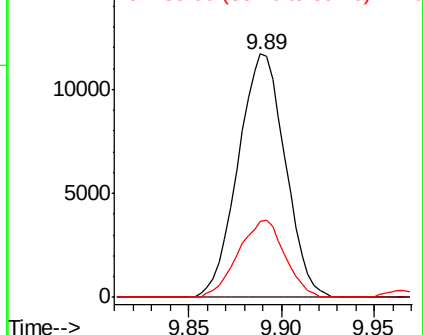
39 31.1 40.2 60.4#



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



#57

1,3-Dichloropropane

Concen: 0.899 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060832.D

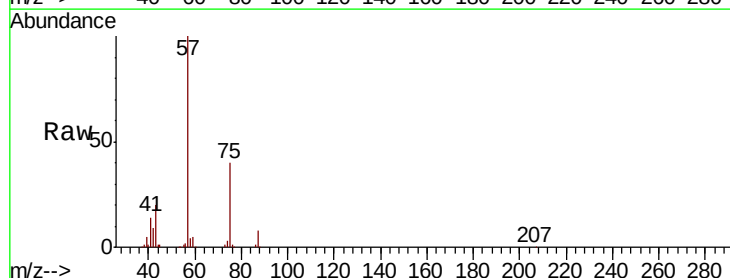
Acq: 2 Apr 2020 19:20

Tgt Ion: 76 Resp: 3490

Ion Ratio Lower Upper

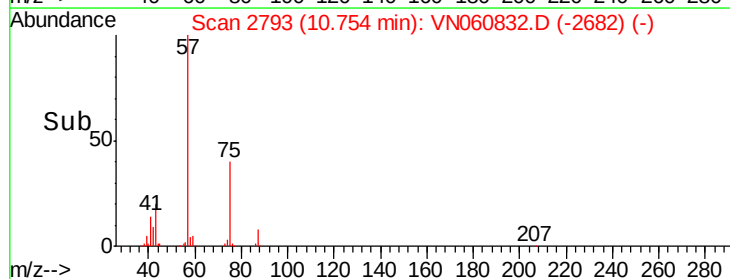
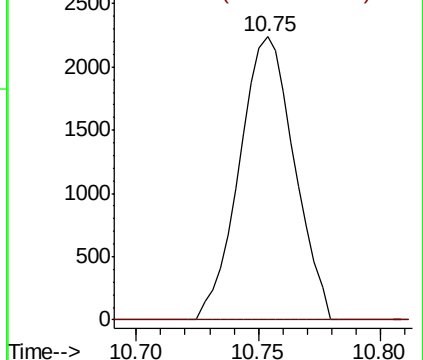
76 100

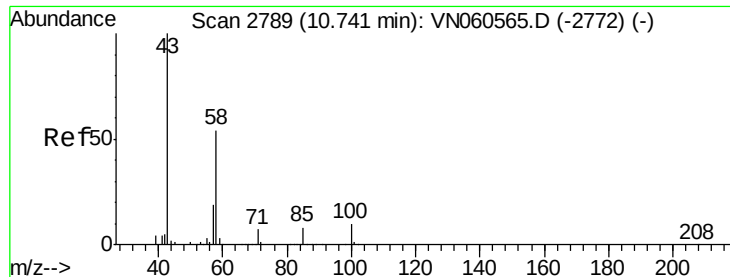
78 0.0 25.8 38.6#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

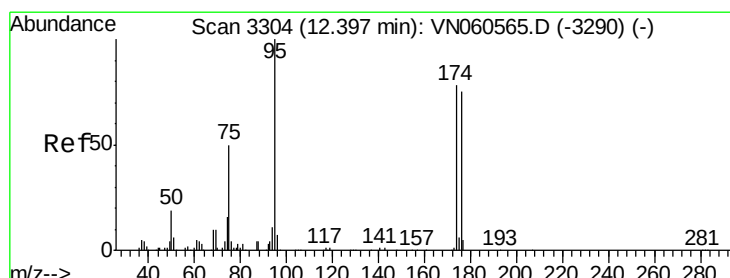
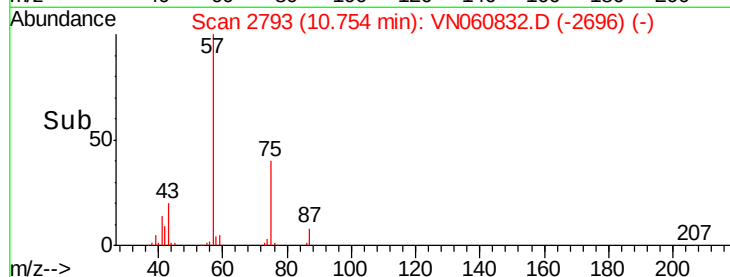
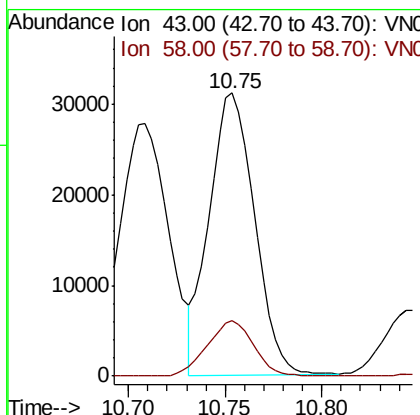
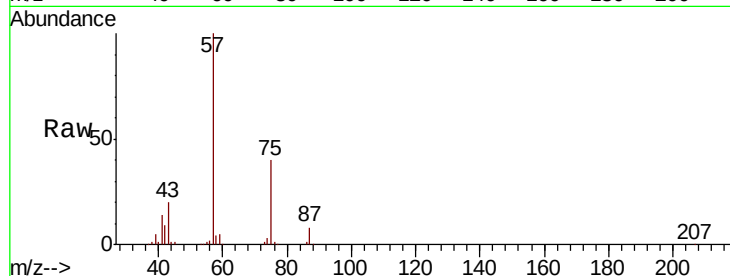




#59
2-Hexanone
Concen: 21.849 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060832.D
Acq: 2 Apr 2020 19:20

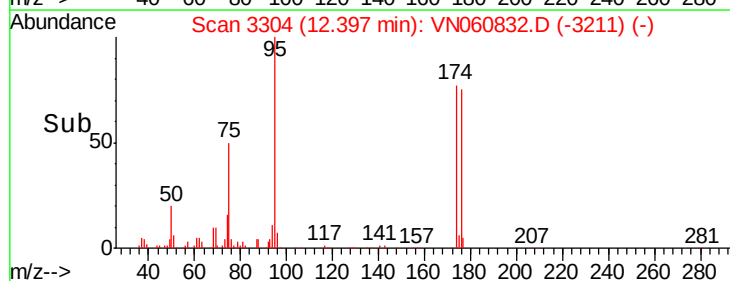
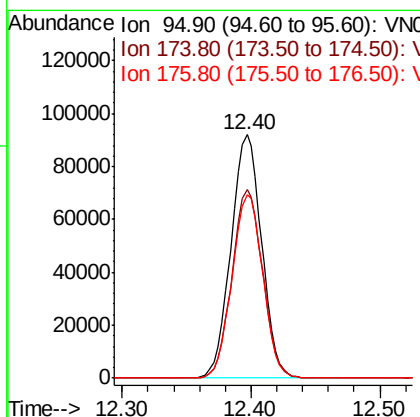
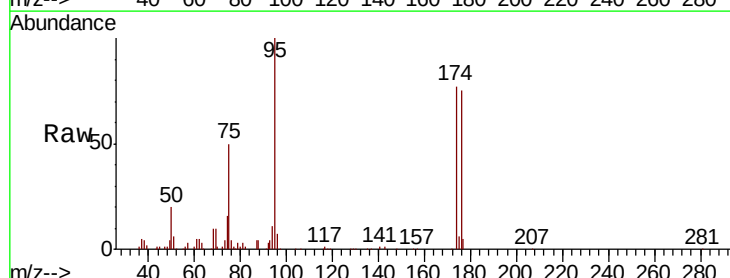
Instrument :
MSVOA_N
ClientSampleId :

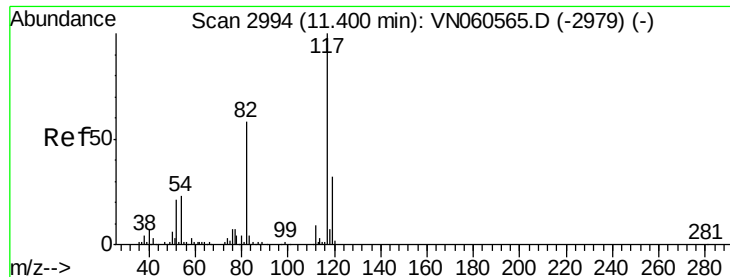
Tot Ion: 43 Resp: 50899
Ion Ratio Lower Upper
43 100
58 20.0 26.7 80.1#



#62
4-Bromofluorobenzene
Concen: 50.893 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.00 min
Lab File: VN060832.D
Acq: 2 Apr 2020 19:20

Tgt Ion: 95 Resp: 151722
Ion Ratio Lower Upper
95 100
174 77.6 0.0 157.6
176 75.6 0.0 150.6

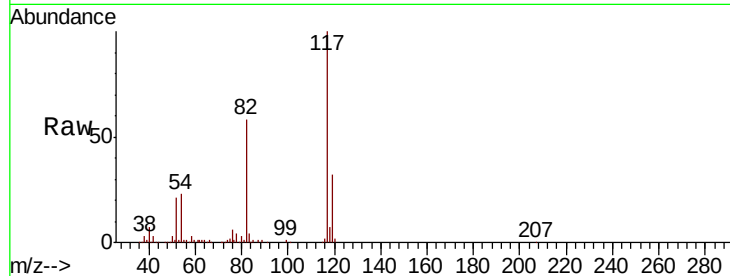




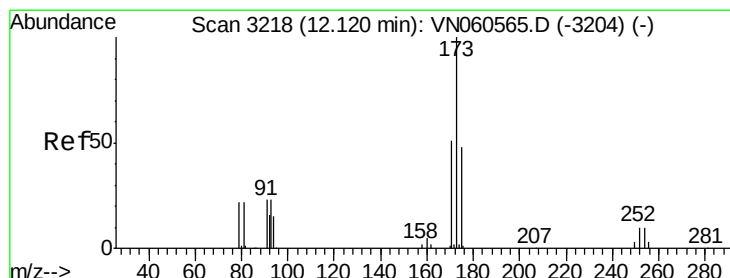
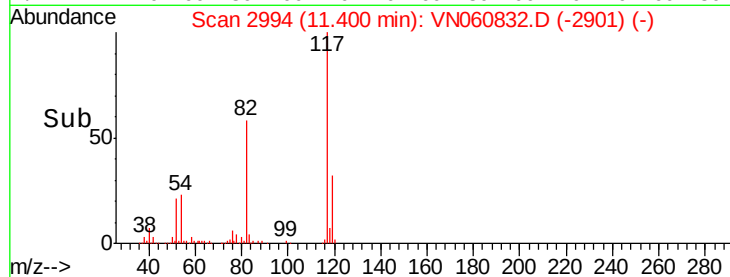
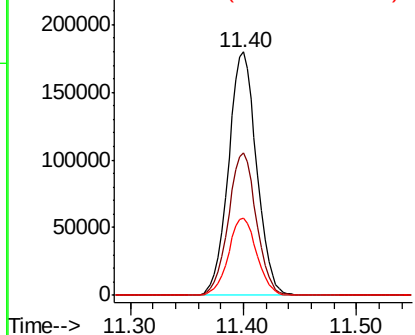
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. -0.00 min
Lab File: VN060832.D
Acq: 2 Apr 2020 19:20

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 309689
Ion Ratio Lower Upper
117 100
82 58.4 46.7 70.1
119 31.9 25.5 38.3

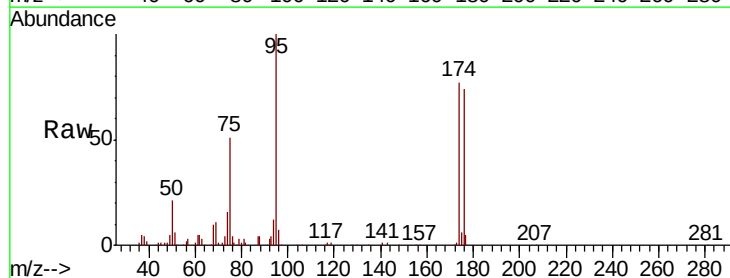


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

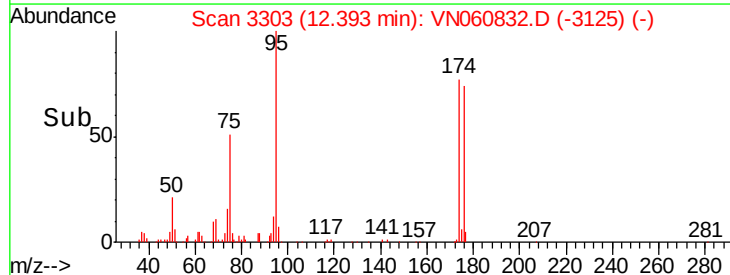
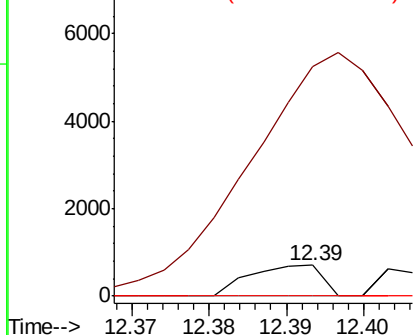


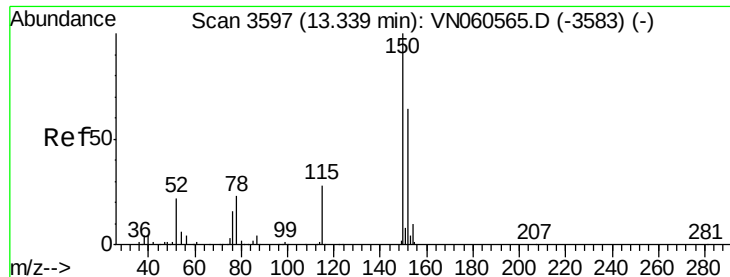
#71
Bromoform
Concen: 1.920 ug/l
RT: 12.39 min Scan# 3303
Delta R.T. 0.27 min
Lab File: VN060832.D
Acq: 2 Apr 2020 19:20

Tgt Ion:173 Resp: 457
Ion Ratio Lower Upper
173 100
175 1622.1 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



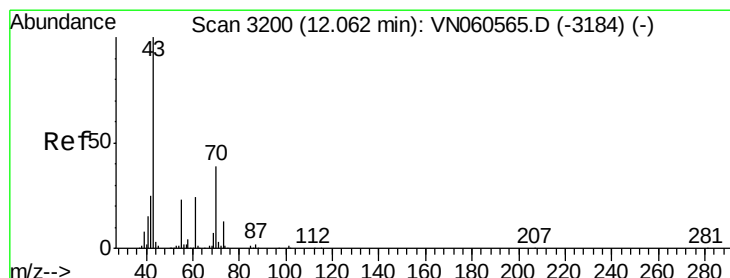
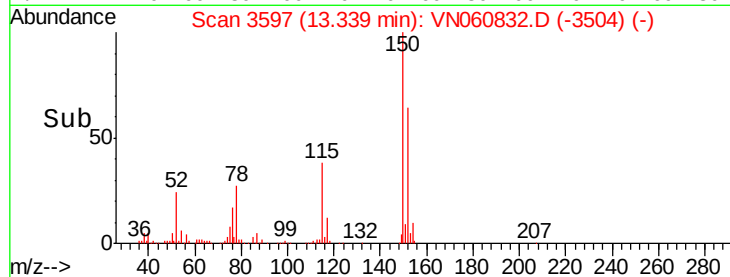
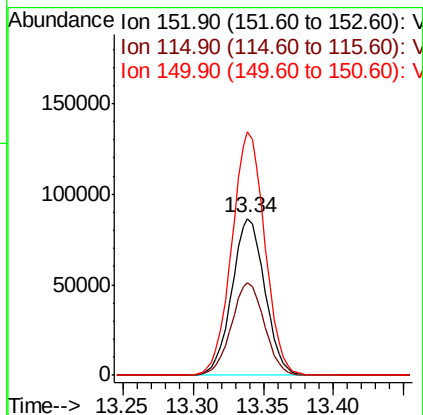
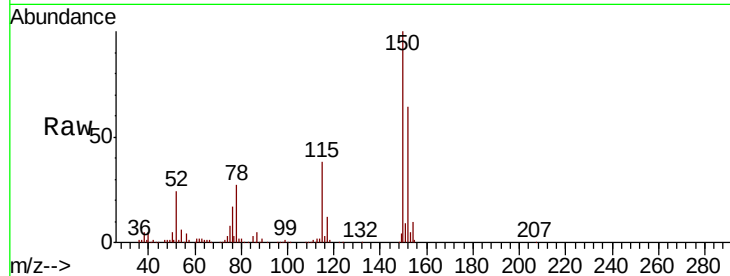


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. -0.00 min
Lab File: VN060832.D
Acq: 2 Apr 2020 19:20

Instrument :
MSVOA_N
ClientSampleId :

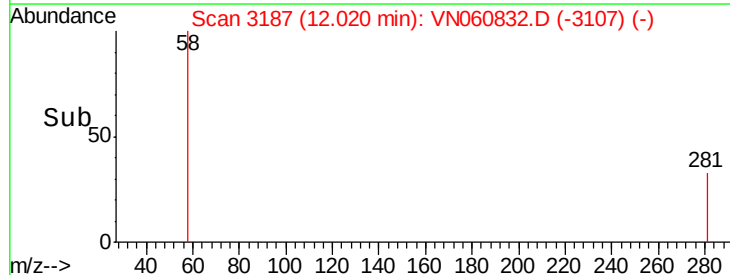
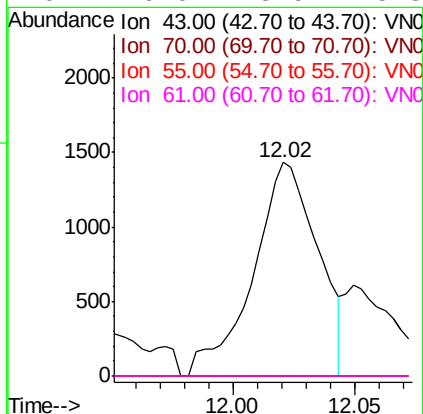
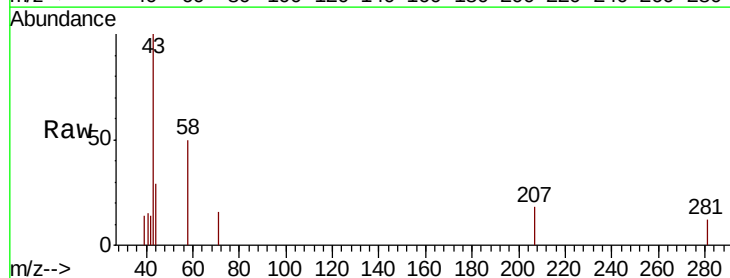
Tot Ion	Ratio	Lower	Upper
152	100		
115	59.1	30.2	90.6
150	155.5	0.0	350.2

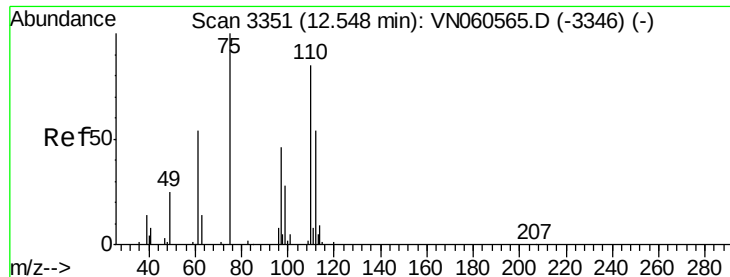


#74

N-ethyl acetate
Concen: 0.537 ug/l
RT: 12.02 min Scan# 3187
Delta R.T. -0.04 min
Lab File: VN060832.D
Acq: 2 Apr 2020 19:20

Tgt 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#





#76

1,2,3-Trichloropropane

Concen: 24.951 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060832.D

Acq: 2 Apr 2020 19:20

Instrument :

MSVOA_N

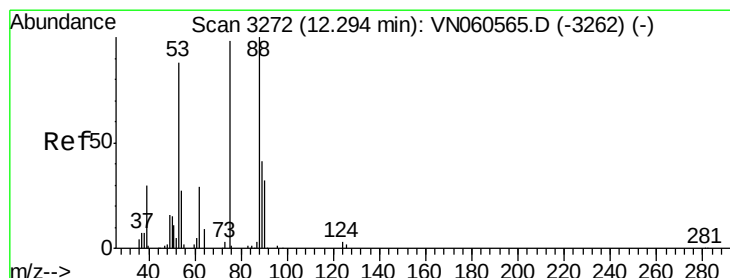
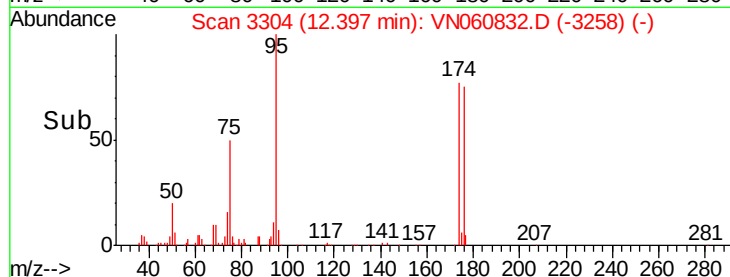
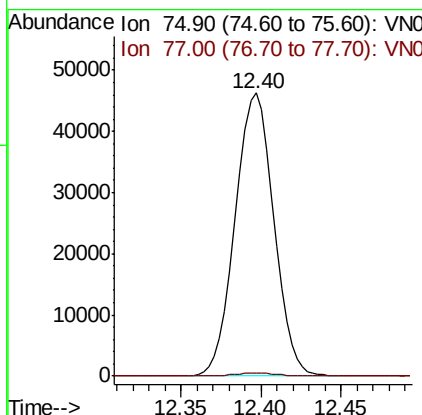
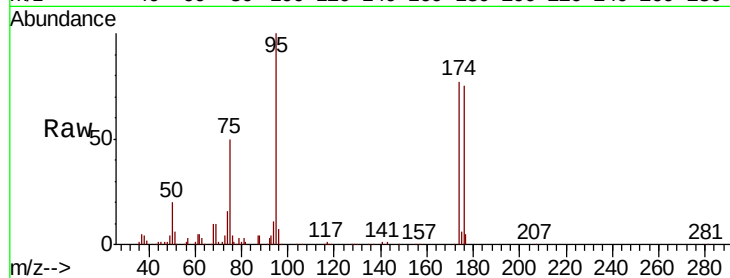
ClientSampled :

Tot Ion: 75 Resp: 76166

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 64.083 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060832.D

Acq: 2 Apr 2020 19:20

Tgt Ion: 75 Resp: 76166

Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.4#

89 0.0 34.8 52.2#

