

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN040220\
 Data File : VN060831.D
 Acq On : 2 Apr 2020 18:57
 Operator : JC/MD
 Sample : L2101-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 03 07:44:56 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	190353	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	318530	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	301489	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	136903	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	124673	47.71	ug/l	0.00
Spiked Amount						
			Recovery	=	95.42%	
35) Dibromofluoromethane	7.56	113	94930	49.29	ug/l	0.00
Spiked Amount						
			Recovery	=	98.58%	
50) Toluene-d8	10.08	98	396910	50.45	ug/l	0.00
Spiked Amount						
			Recovery	=	100.90%	
62) 4-Bromofluorobenzene	12.40	95	147735	51.24	ug/l	0.00
Spiked Amount						
			Recovery	=	102.48%	

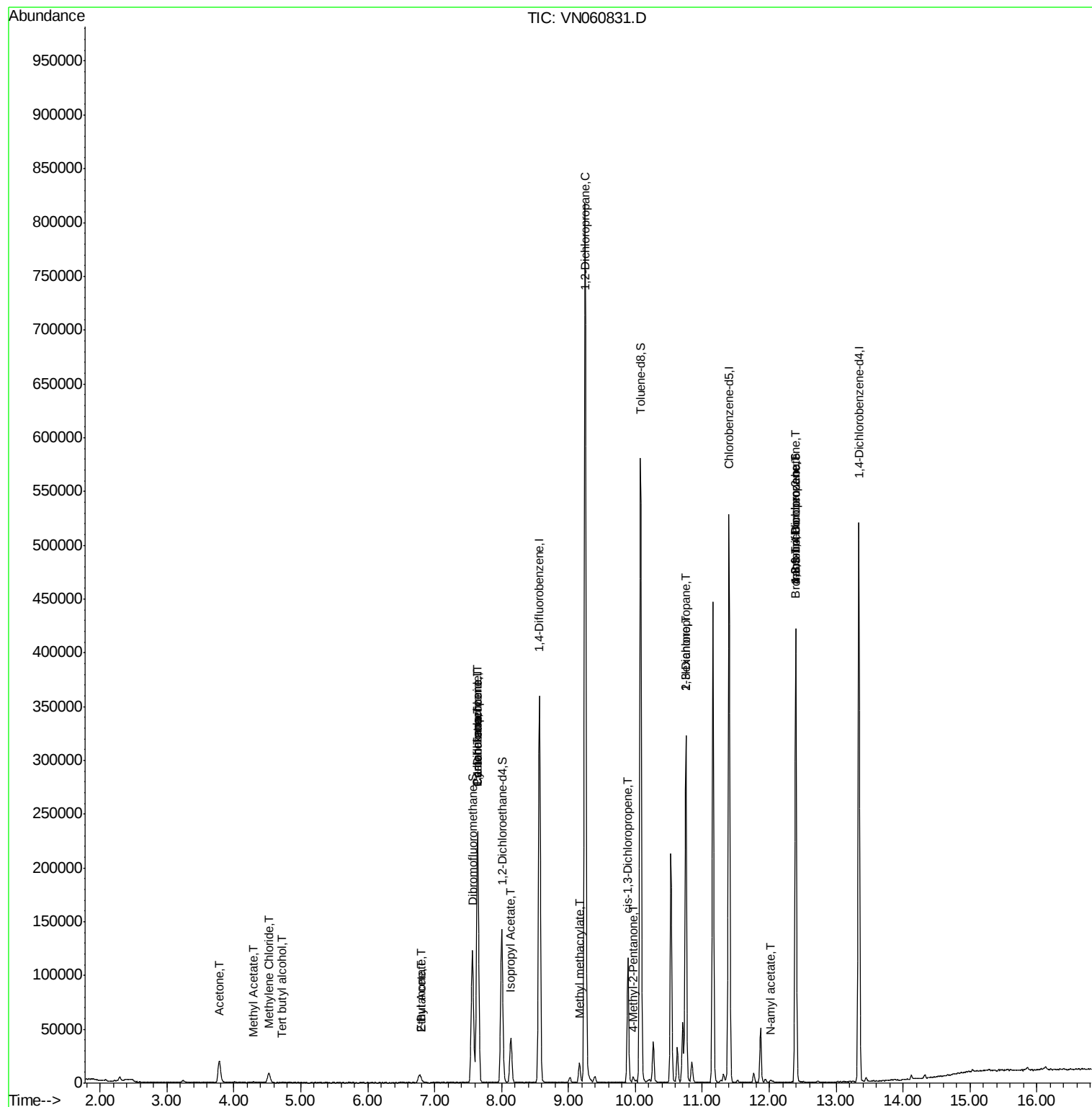
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.72	59	208	0.541	ug/l #	72
16) Acetone	3.78	43	36137	39.041	ug/l	99
18) Methyl Acetate	4.29	43	1725	0.662	ug/l #	54
20) Methylene Chloride	4.52	84	6993	3.071	ug/l	91
25) 2-Butanone	6.80	43	3330	2.223	ug/l	94
31) Cyclohexane	7.64	56	4057	0.964	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	14963	4.851	ug/l #	50
37) Ethyl Acetate	6.80	43	3330	0.999	ug/l #	70
38) Carbon Tetrachloride	7.64	117	18404	6.658	ug/l #	16
43) Isopropyl Acetate	8.14	43	50320	9.155	ug/l #	92
45) 1,2-Dichloropropane	9.25	63	1059	0.431	ug/l #	43
48) Methyl methacrylate	9.16	41	2640	1.079	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	3860	1.234	ug/l	88
54) cis-1,3-Dichloropropene	9.89	75	20136	5.177	ug/l #	60
57) 1,3-Dichloropropane	10.75	76	3047	0.812	ug/l #	42
59) 2-Hexanone	10.75	43	48646	21.592	ug/l #	52
71) Bromoform	12.38	173	158	1.765	ug/l #	29
74) N-amyl acetate	12.02	43	3092	0.651	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	73658	24.934	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	73658	64.039	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: VN060831.D

Acq: 2 Apr 2020 18:57

Instrument :

MSVOA_N

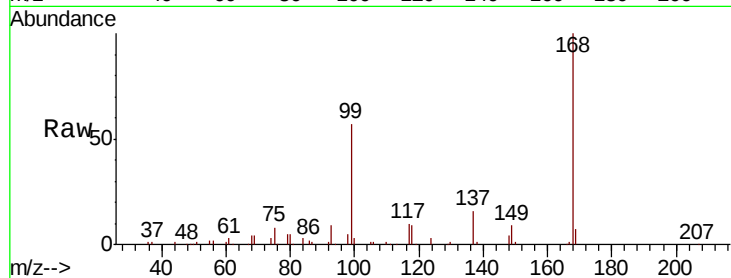
ClientSampled :

Tot Ion:168 Resp: 190353

Ion Ratio Lower Upper

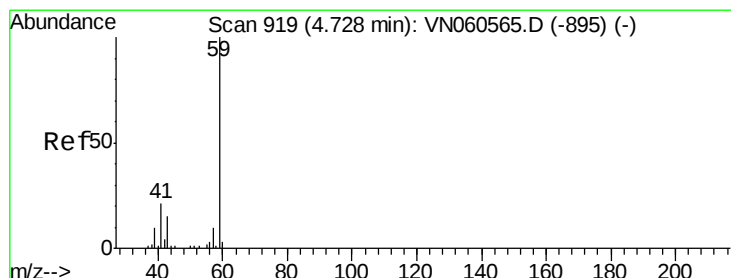
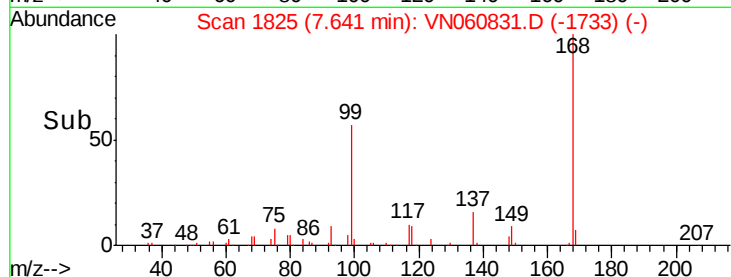
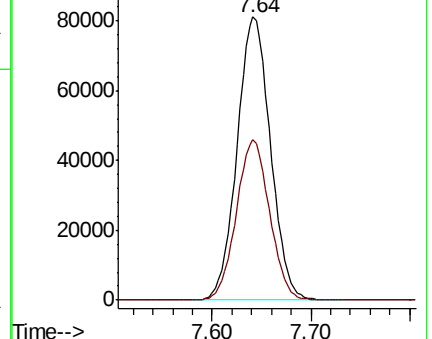
168 100

99 56.5 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: 0.541 ug/l

RT: 4.72 min Scan# 917

Delta R.T. -0.01 min

Lab File: VN060831.D

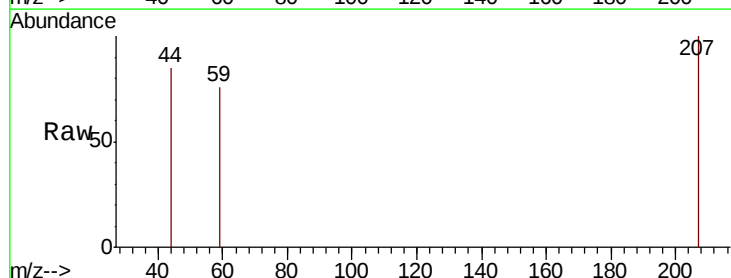
Acq: 2 Apr 2020 18:57

Tgt Ion: 59 Resp: 208

Ion Ratio Lower Upper

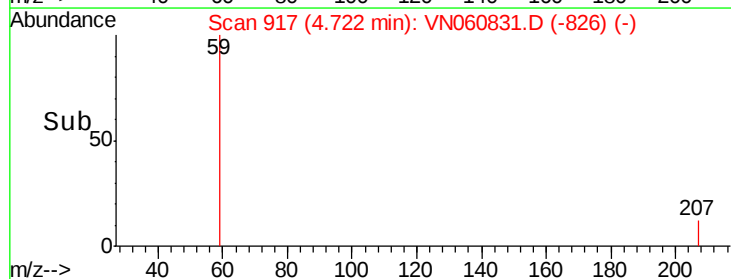
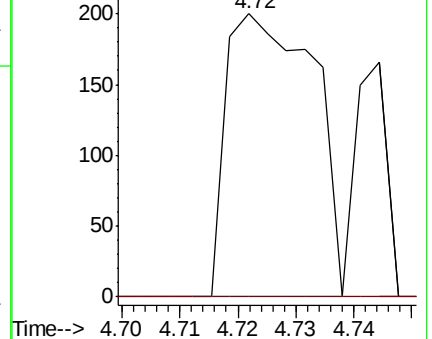
59 100

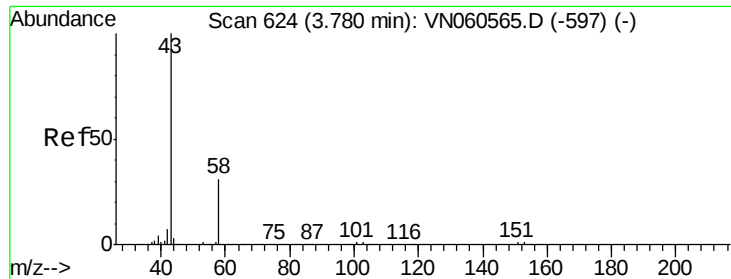
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN





#16

Acetone

Concen: 39.041 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.00 min

Lab File: VN060831.D

Acq: 2 Apr 2020 18:57

Instrument :

MSVOA_N

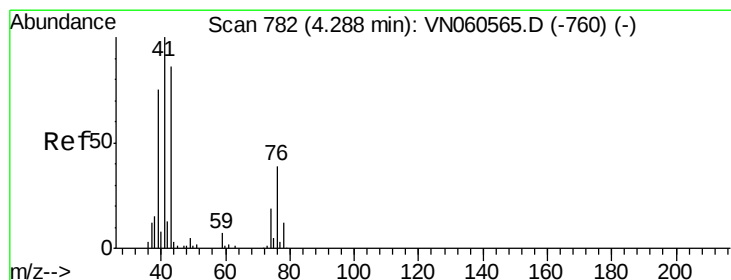
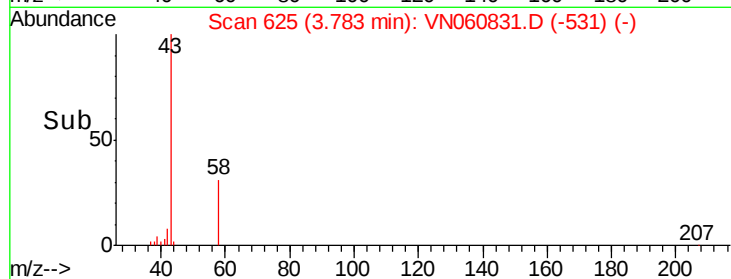
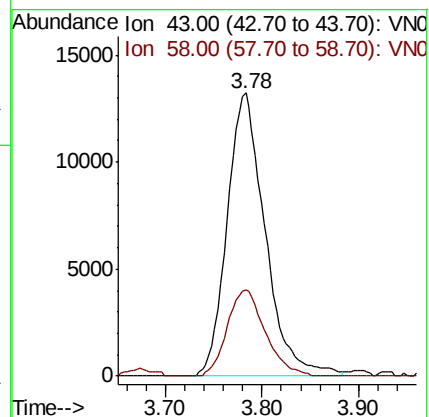
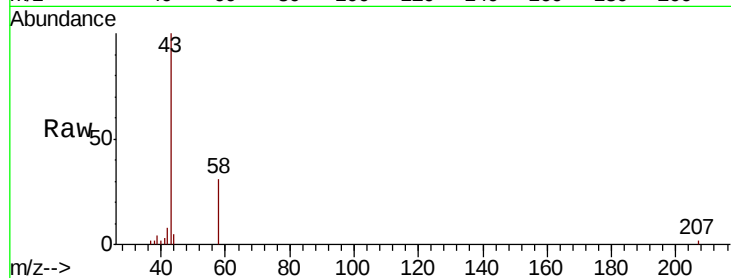
ClientSampled :

Tot Ion: 43 Resp: 36137

Ion Ratio Lower Upper

43 100

58 30.6 25.1 37.7



#18

Methyl Acetate

Concen: 0.662 ug/l

RT: 4.29 min Scan# 784

Delta R.T. 0.01 min

Lab File: VN060831.D

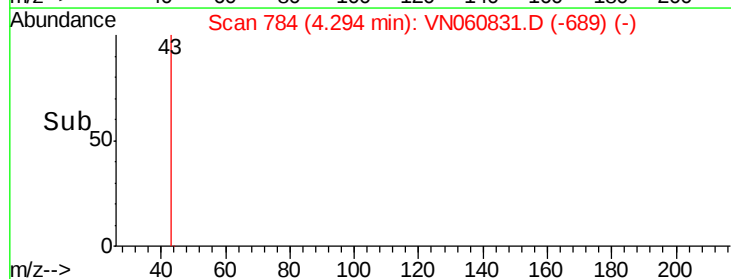
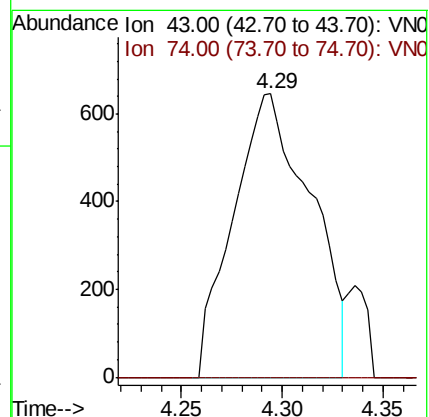
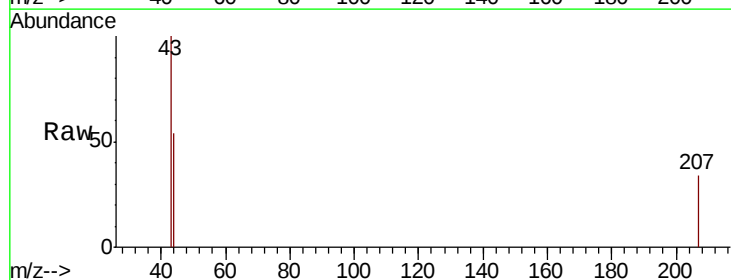
Acq: 2 Apr 2020 18:57

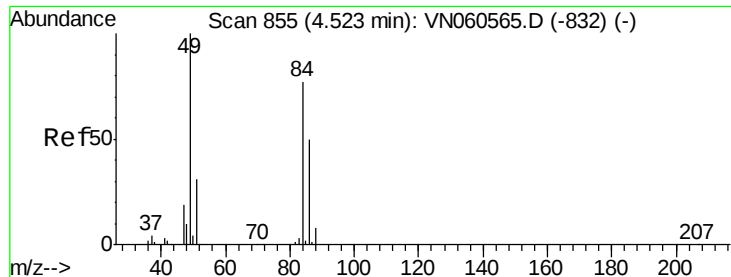
Tgt Ion: 43 Resp: 1725

Ion Ratio Lower Upper

43 100

74 0.0 17.5 26.3#

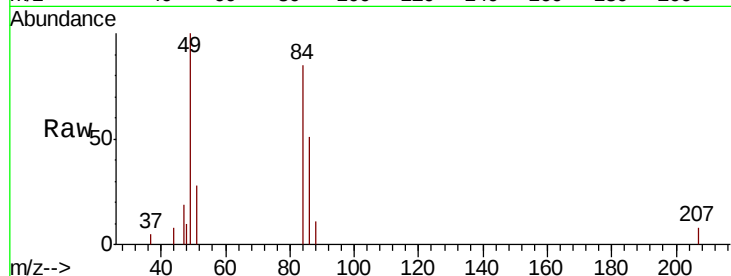




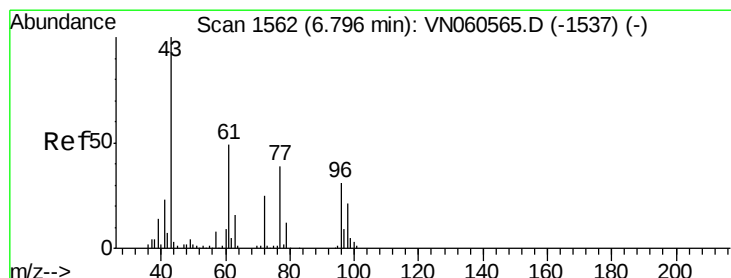
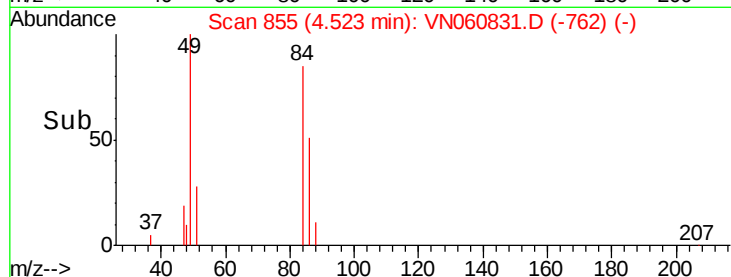
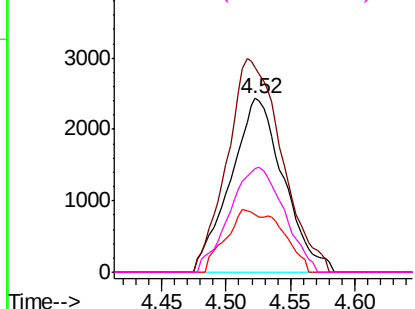
#20
Methvlene Chloride
Concen: 3.071 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN060831.D
Acq: 2 Apr 2020 18:57

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 84 Resp: 6993
Ion Ratio Lower Upper
84 100
49 117.7 103.3 154.9
51 32.9 31.6 47.4
86 59.5 52.0 78.0

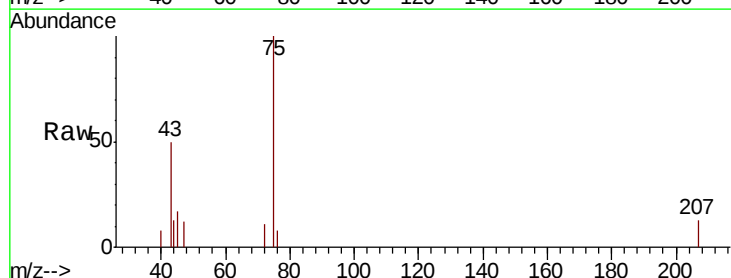


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

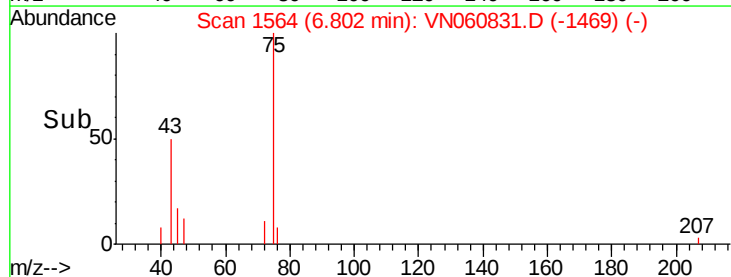
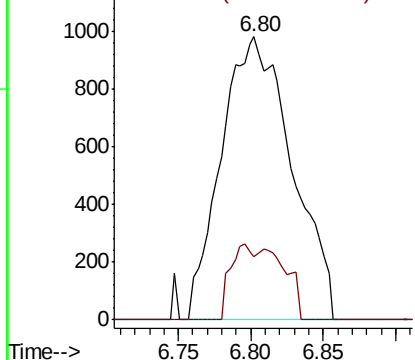


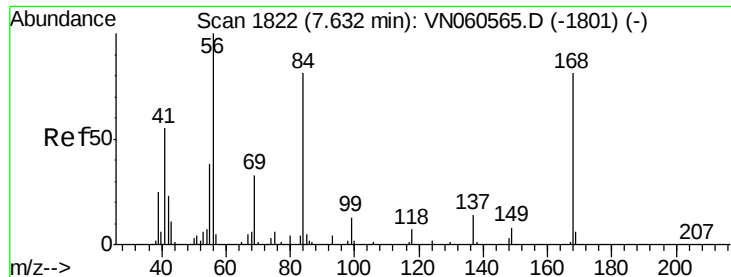
#25
2-Butanone
Concen: 2.223 ug/l
RT: 6.80 min Scan# 1564
Delta R.T. 0.01 min
Lab File: VN060831.D
Acq: 2 Apr 2020 18:57

Tgt Ion: 43 Resp: 3330
Ion Ratio Lower Upper
43 100
72 22.4 20.4 30.6



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 72.00 (71.70 to 72.70): VN0

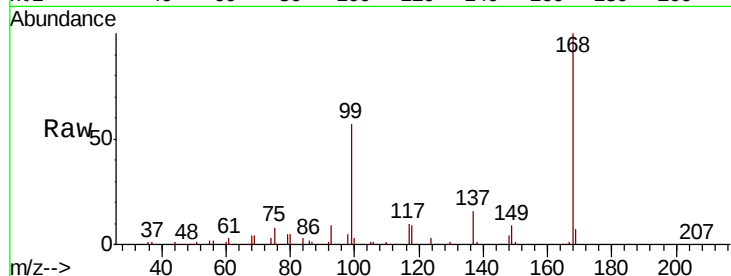




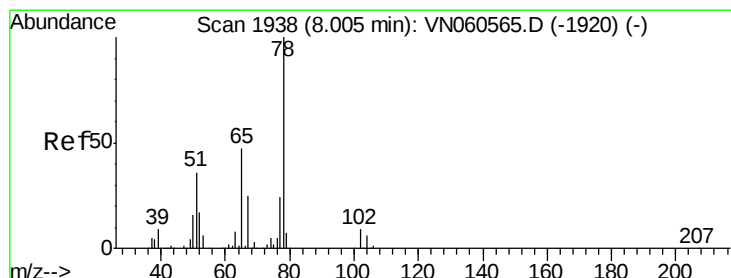
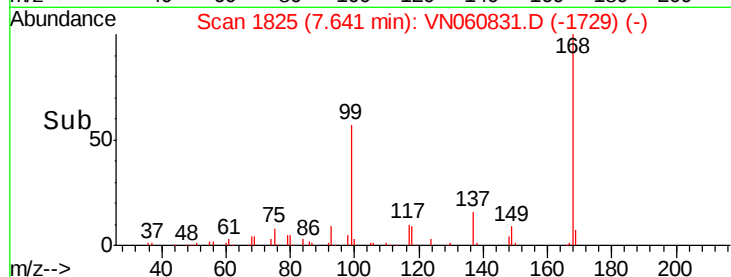
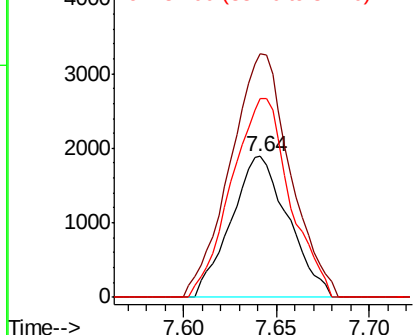
#31
Cyclohexane
Concen: 0.964 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. 0.01 min
Lab File: VN060831.D
Acq: 2 Apr 2020 18:57

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 4057
Ion Ratio Lower Upper
56 100
69 172.7 26.6 40.0#
84 141.1 64.3 96.5#

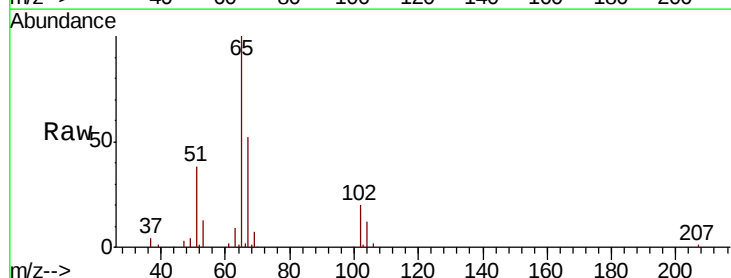


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

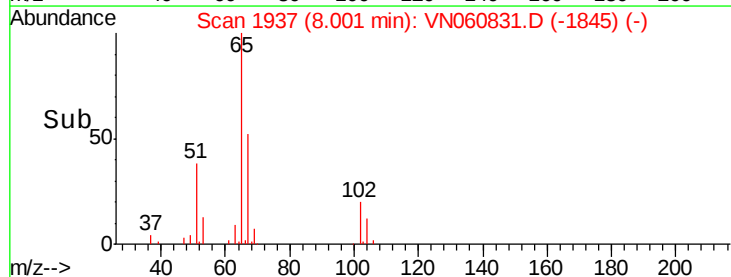
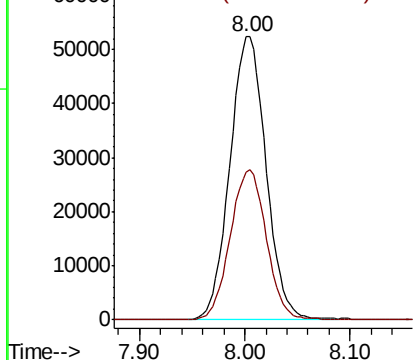


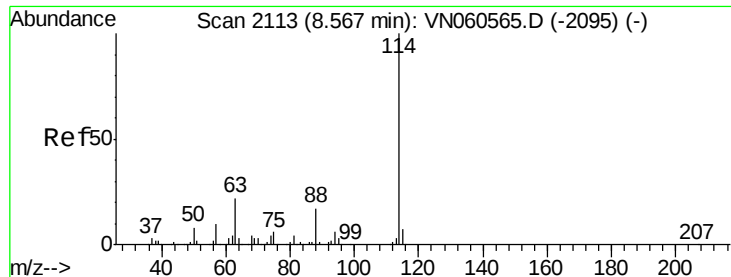
#33
1,2-Dichloroethane-d4
Concen: 47.711 ug/l
RT: 8.00 min Scan# 1937
Delta R.T. -0.00 min
Lab File: VN060831.D
Acq: 2 Apr 2020 18:57

Tgt Ion: 65 Resp: 124673
Ion Ratio Lower Upper
65 100
67 52.8 0.0 107.6



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

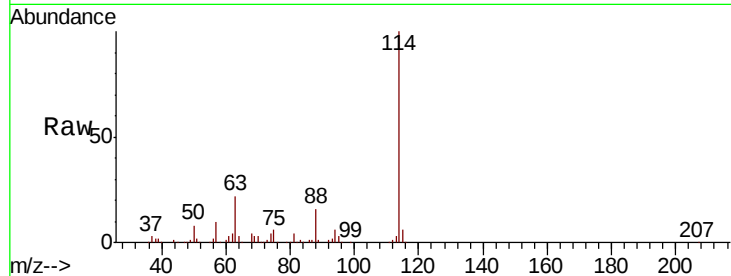




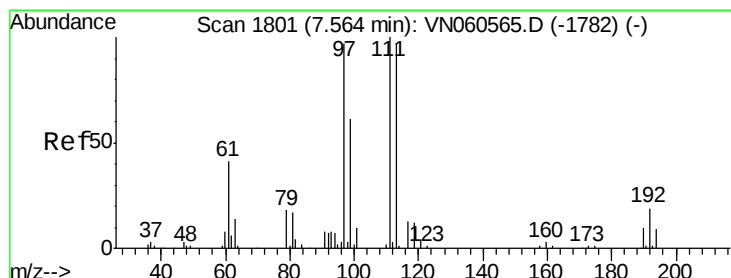
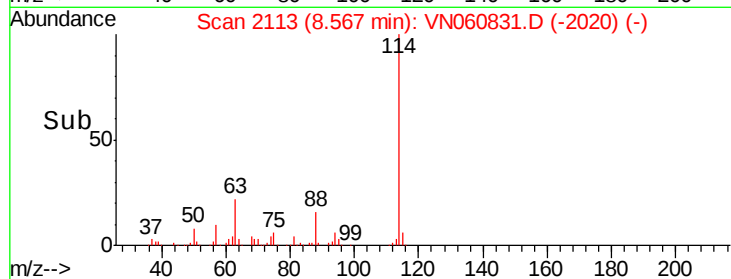
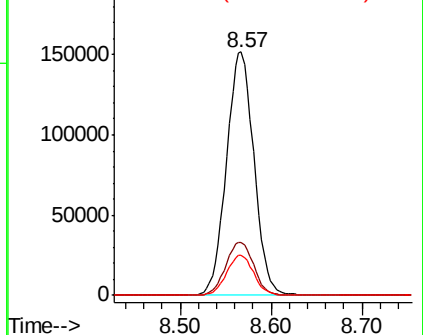
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060831.D
 Acq: 2 Apr 2020 18:57

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	21.7	0.0	43.8
88	16.3	0.0	33.0

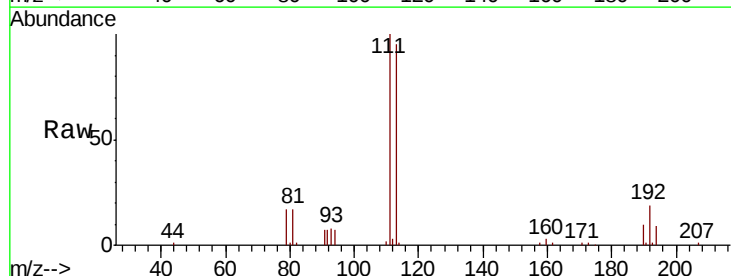


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

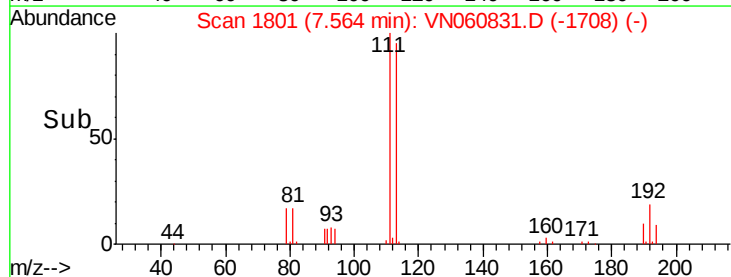
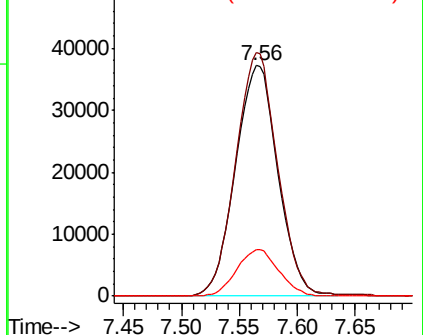


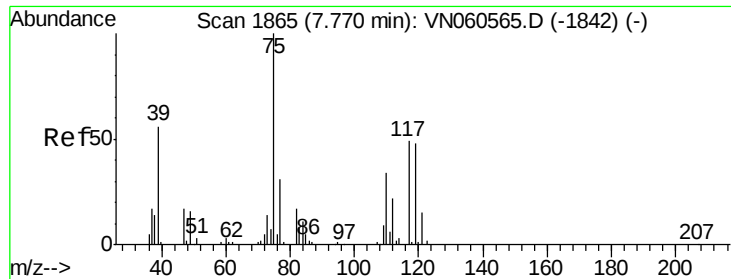
#35
 Dibromofluoromethane
 Concen: 49.287 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. 0.00 min
 Lab File: VN060831.D
 Acq: 2 Apr 2020 18:57

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

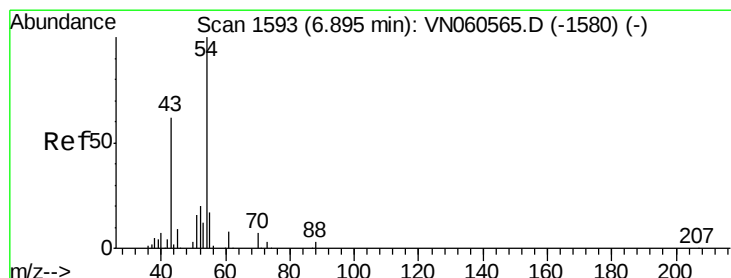
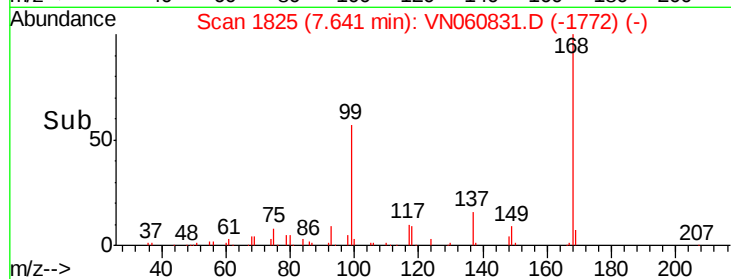
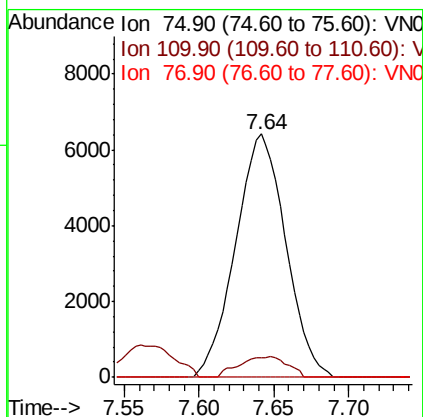
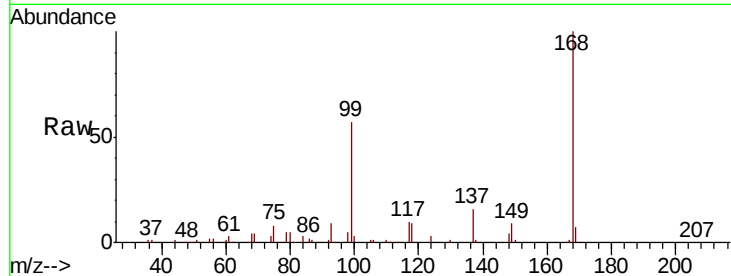




#36
 1,1-Dichloropropene
 Concen: 4.851 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060831.D
 Acq: 2 Apr 2020 18:57

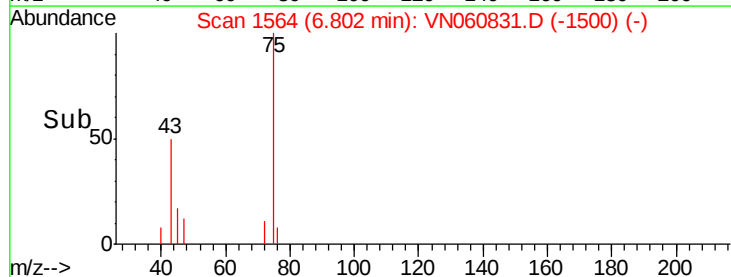
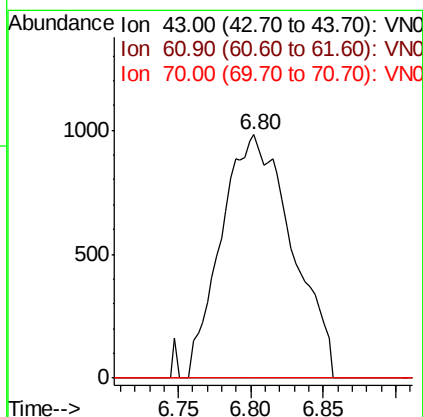
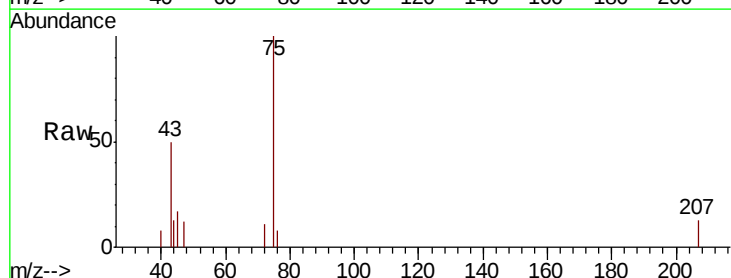
Instrument :
 MSVOA_N
 ClientSampleId :

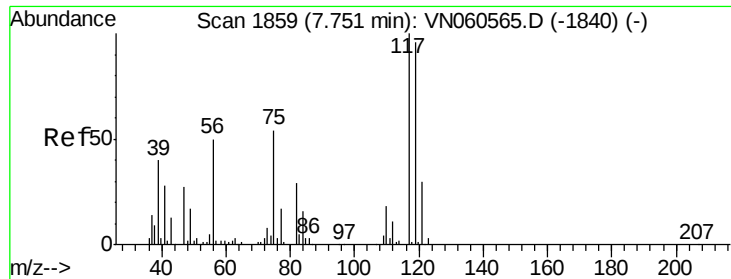
Tot Ion	75	Resp	14963
Ion Ratio	Lower	Upper	
75	100		
110	8.2	16.9	50.6#
77	0.0	24.6	36.8#



#37
 Ethyl Acetate
 Concen: 0.999 ug/l
 RT: 6.80 min Scan# 1564
 Delta R.T. -0.09 min
 Lab File: VN060831.D
 Acq: 2 Apr 2020 18:57

Tgt Ion	43	Resp	3330
Ion Ratio	Lower	Upper	
43	100		
61	0.0	10.6	15.8#
70	0.0	7.9	11.9#





#38

Carbon Tetrachloride

Concen: 6.658 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN060831.D

Acq: 2 Apr 2020 18:57

Instrument :

MSVOA_N

ClientSampleId :

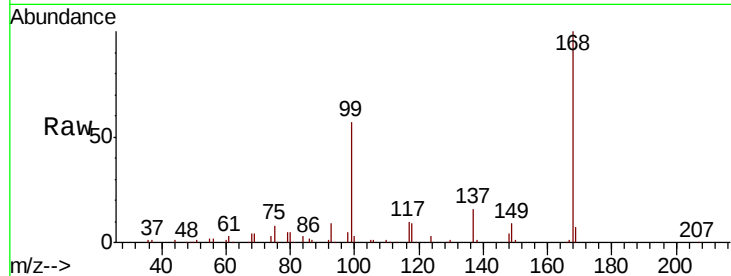
Tot Ion:117 Resp: 18404

Ion Ratio Lower Upper

117 100

119 4.3 76.2 114.2#

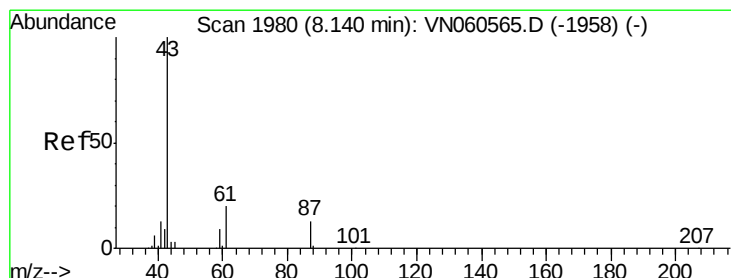
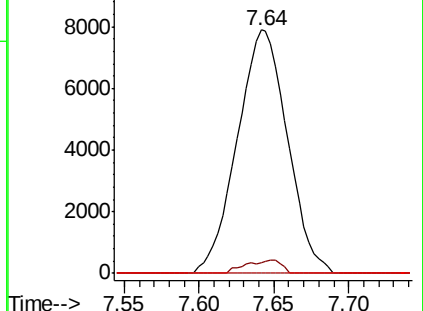
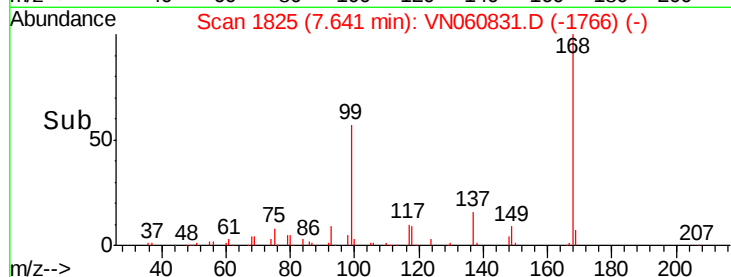
121 0.0 23.7 35.5#



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: 9.155 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060831.D

Acq: 2 Apr 2020 18:57

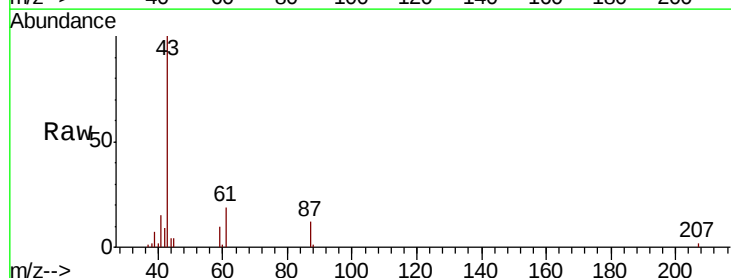
Tgt Ion: 43 Resp: 50320

Ion Ratio Lower Upper

43 100

61 19.6 20.7 31.1#

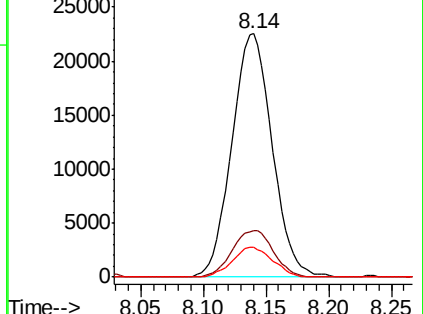
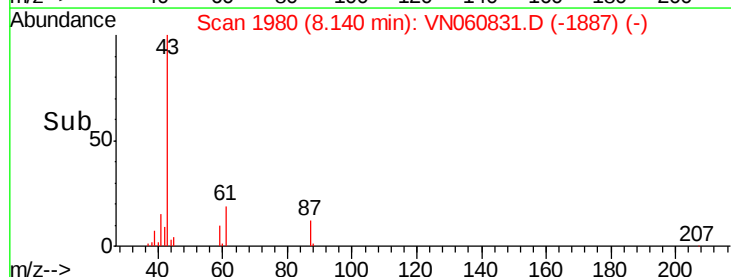
87 12.2 9.8 14.8

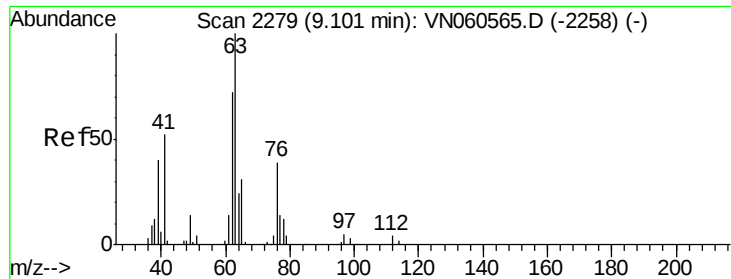


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.431 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN060831.D

Acq: 2 Apr 2020 18:57

Instrument :

MSVOA_N

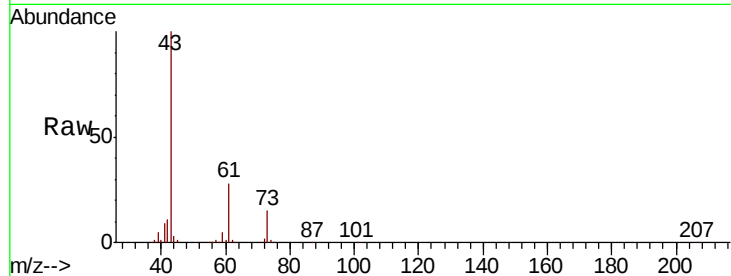
ClientSampleId :

Tot Ion: 63 Resp: 1059

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.0#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.25

800

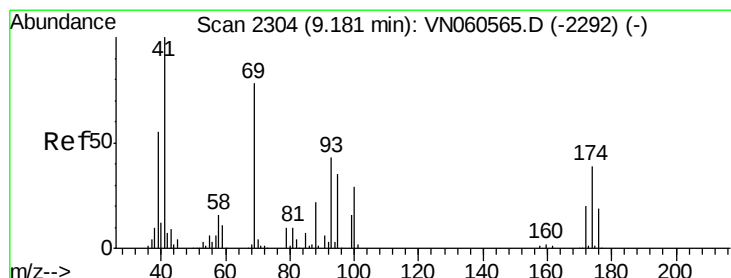
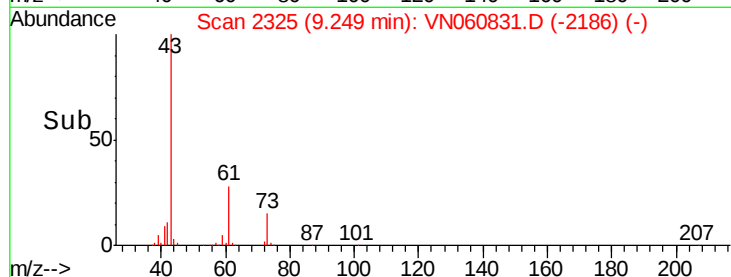
600

400

200

0

Time--> 9.20 9.22 9.24 9.26 9.28



#48

Methyl methacrylate

Concen: 1.079 ug/l

RT: 9.16 min Scan# 2297

Delta R.T. -0.02 min

Lab File: VN060831.D

Acq: 2 Apr 2020 18:57

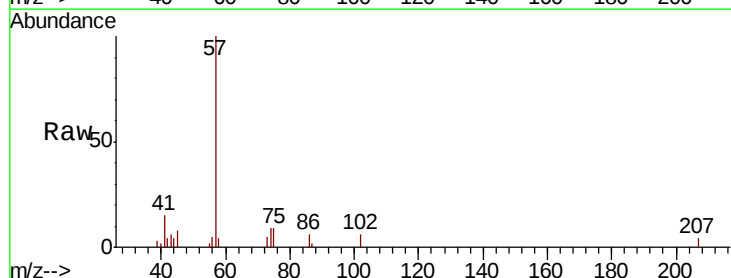
Tgt Ion: 41 Resp: 2640

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): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

30000

25000

20000

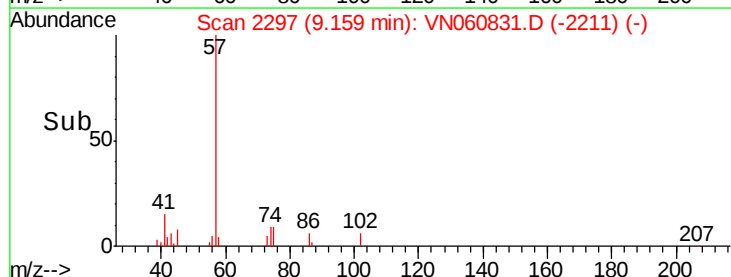
15000

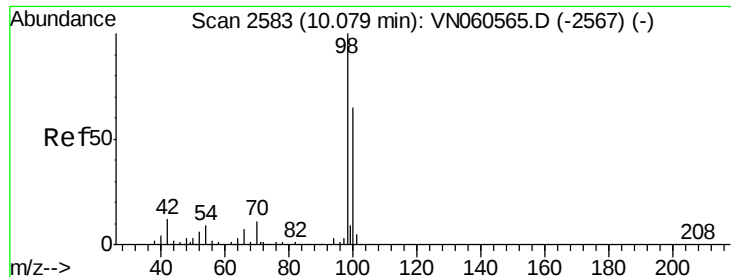
10000

5000

0

Time--> 9.10 9.15 9.20





#50

Toluene-d8

Concen: 50.451 ug/l

RT: 10.08 min Scan# 2582

Delta R.T. -0.00 min

Lab File: VN060831.D

Acq: 2 Apr 2020 18:57

Instrument :

MSVOA_N

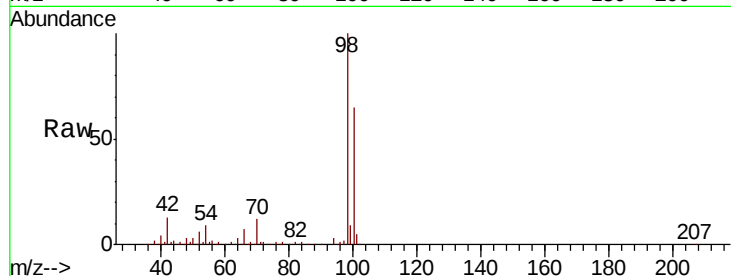
ClientSampleId :

Tot Ion: 98 Resp: 396910

Ion Ratio Lower Upper

98 100

100 65.0 51.8 77.8



Abundance Ion 98.00 (97.70 to 98.70): VN060831.D (-2490) (-)

Ion 100.00 (99.70 to 100.70): VN060831.D (-2490) (-)

10.08

250000

200000

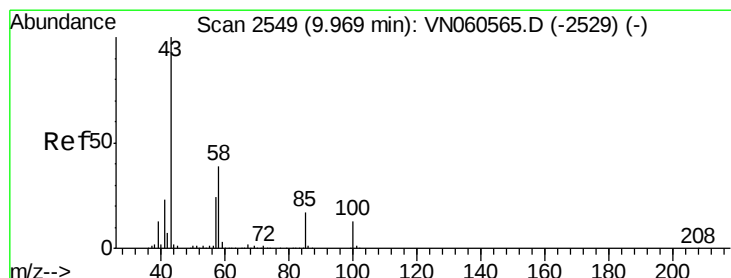
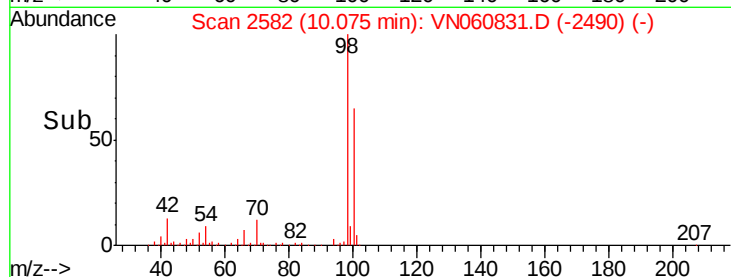
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.234 ug/l

RT: 9.97 min Scan# 2548

Delta R.T. -0.00 min

Lab File: VN060831.D

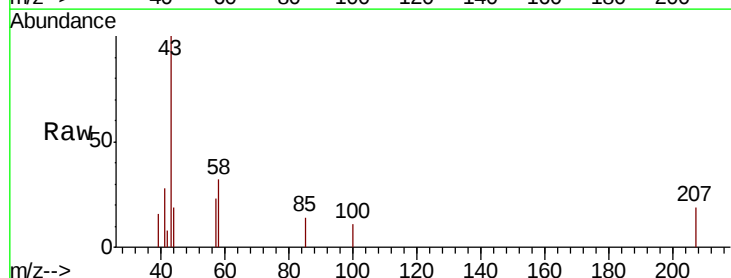
Acq: 2 Apr 2020 18:57

Tgt Ion: 43 Resp: 3860

Ion Ratio Lower Upper

43 100

58 31.5 30.8 46.2



Abundance Ion 43.00 (42.70 to 43.70): VN060831.D (-2456) (-)

Ion 58.00 (57.70 to 58.70): VN060831.D (-2456) (-)

4000

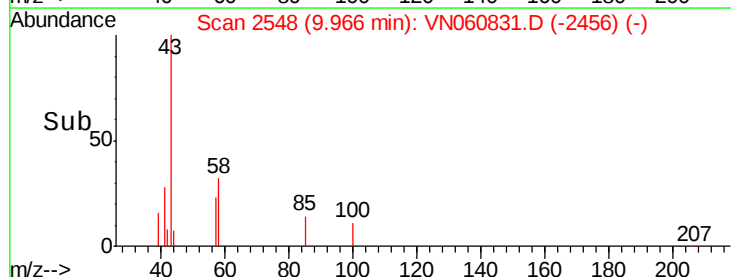
3000

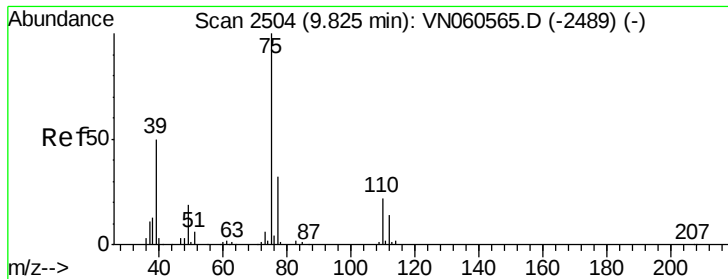
2000

1000

0

Time-->



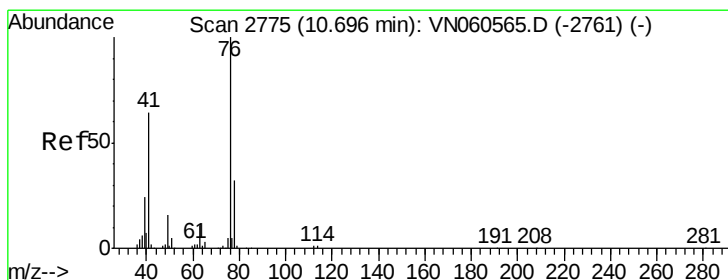
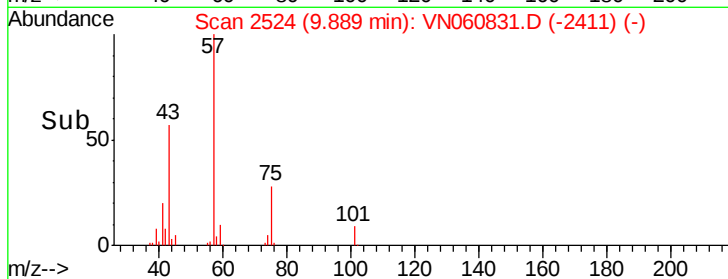
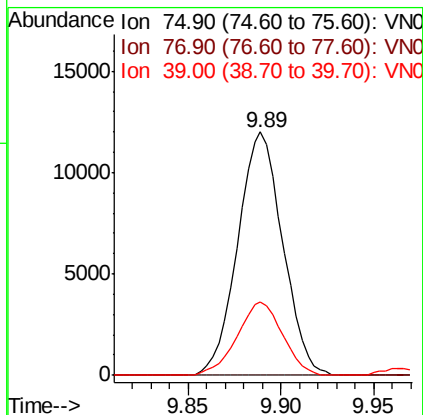
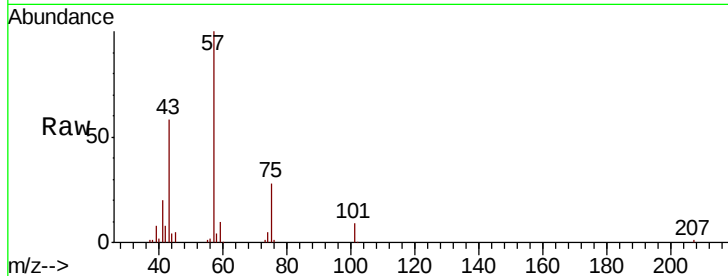


#54

cis-1,3-Dichloropropene
 Concen: 5.177 ug/l
 RT: 9.89 min Scan# 2524
 Delta R.T. 0.06 min
 Lab File: VN060831.D
 Acq: 2 Apr 2020 18:57

Instrument :
 MSVOA_N
 ClientSampleId :

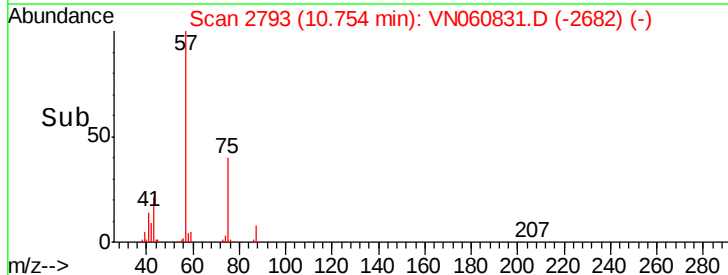
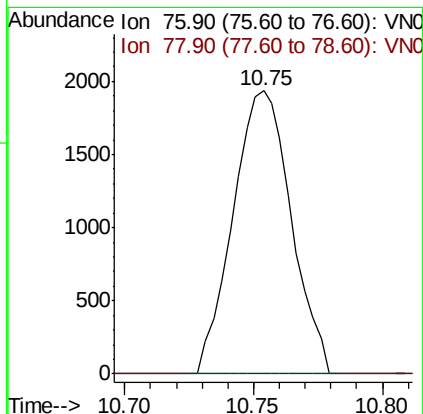
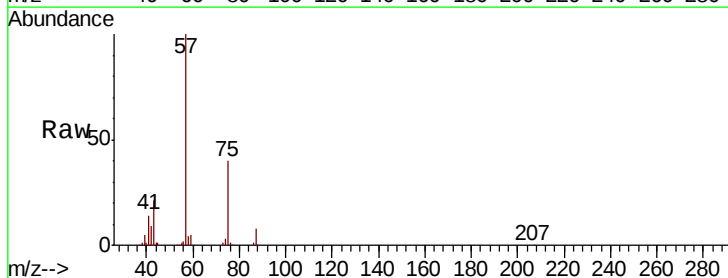
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.0	25.4	38.0#
39	30.2	40.2	60.4#

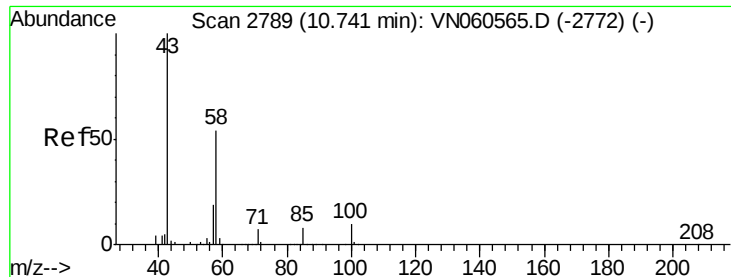


#57

1,3-Dichloropropane
 Concen: 0.812 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN060831.D
 Acq: 2 Apr 2020 18:57

Tgt Ion	Ratio	Lower	Upper
76	100		
78	0.0	25.8	38.6#

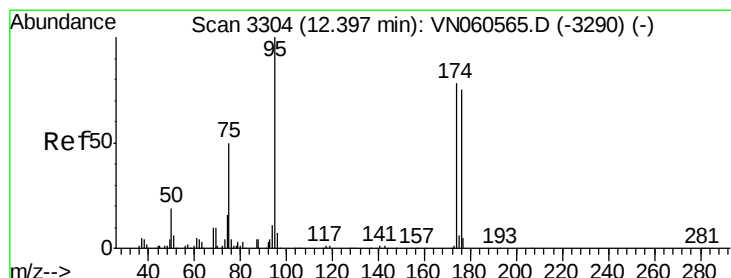
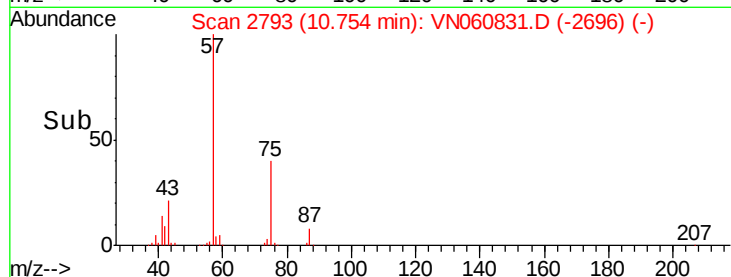
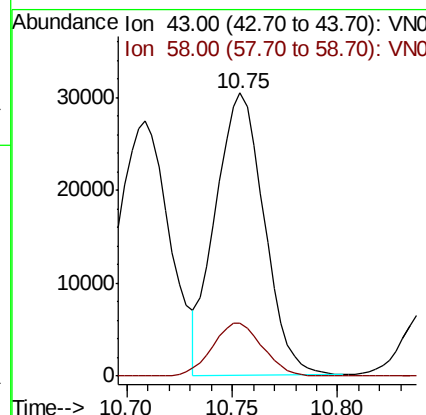
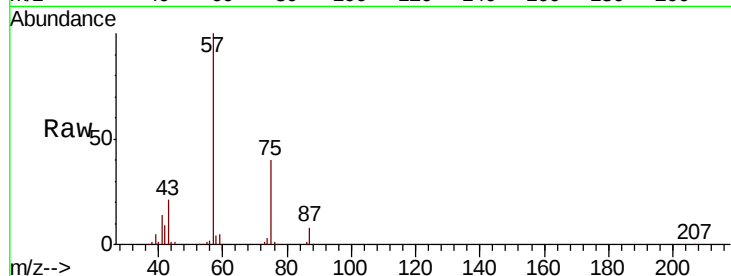




#59
2-Hexanone
Concen: 21.592 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060831.D
Acq: 2 Apr 2020 18:57

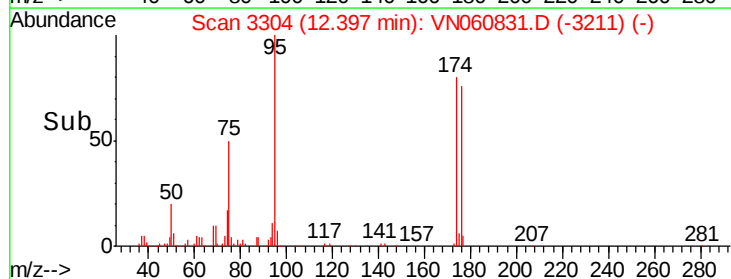
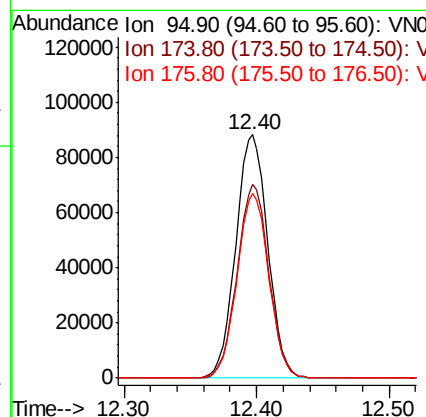
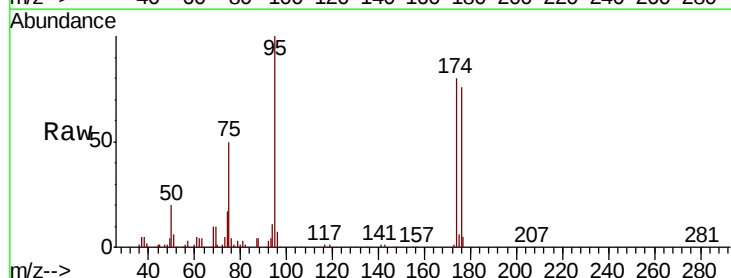
Instrument :
MSVOA_N
ClientSampleId :

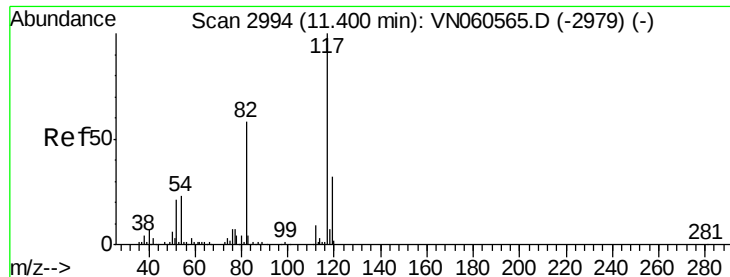
Tot Ion: 43 Resp: 48646
Ion Ratio Lower Upper
43 100
58 19.5 26.7 80.1#



#62
4-Bromofluorobenzene
Concen: 51.240 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN060831.D
Acq: 2 Apr 2020 18:57

Tgt Ion: 95 Resp: 147735
Ion Ratio Lower Upper
95 100
174 78.5 0.0 157.6
176 75.5 0.0 150.6

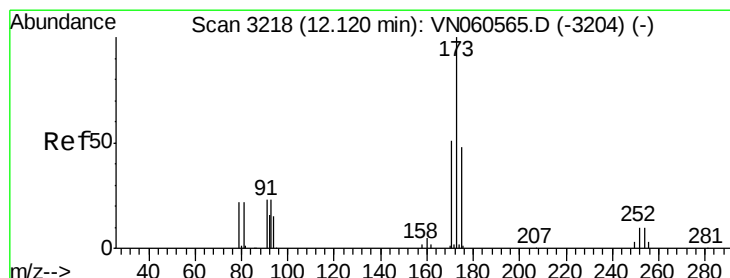
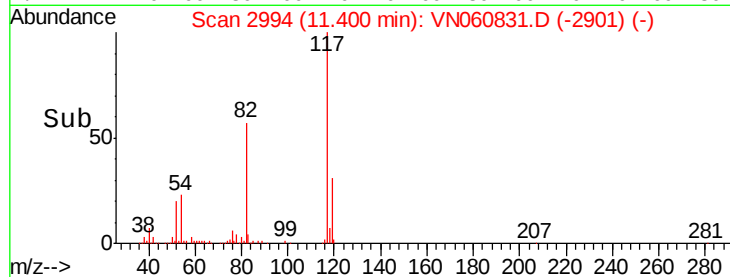
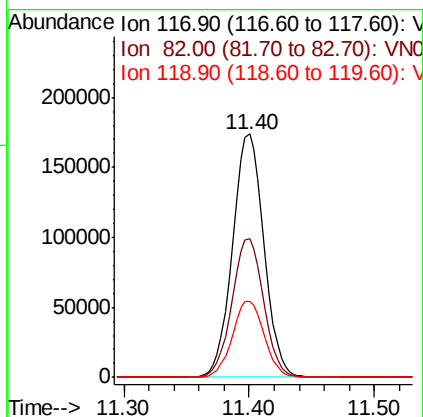
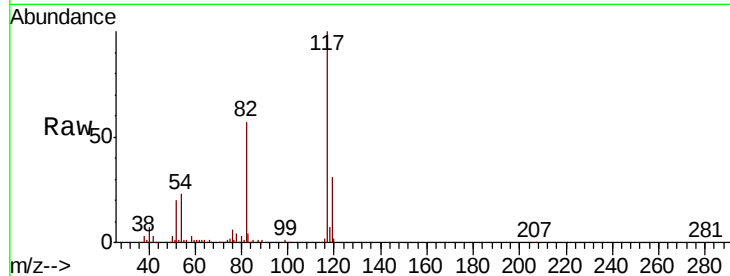




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN060831.D
Acq: 2 Apr 2020 18:57

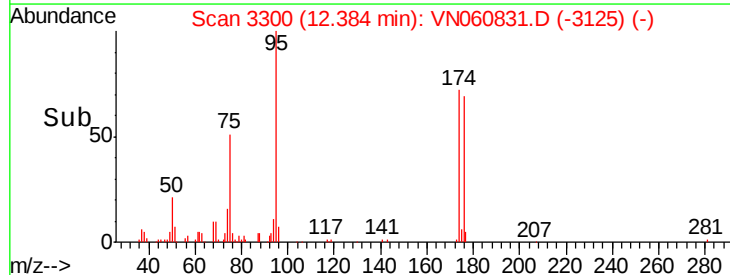
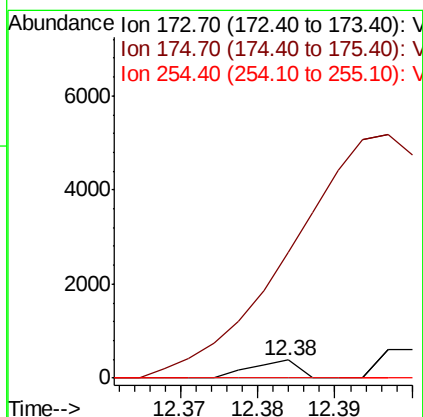
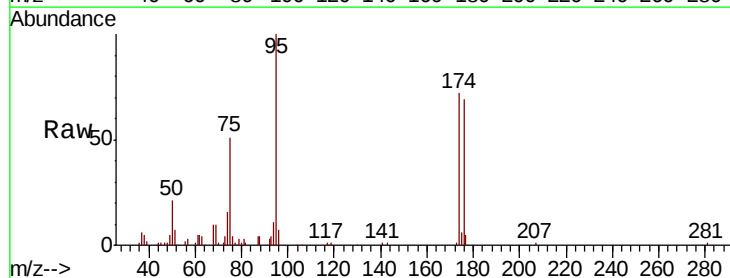
Instrument :
MSVOA_N
ClientSampled :

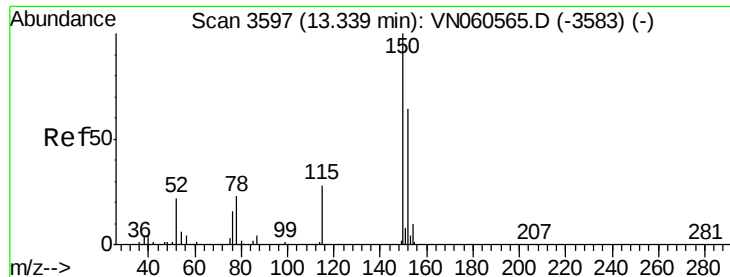
Tot Ion:117 Resp: 301489
Ion Ratio Lower Upper
117 100
82 56.8 46.7 70.1
119 31.5 25.5 38.3



#71
Bromoform
Concen: 1.765 ug/l
RT: 12.38 min Scan# 3300
Delta R.T. 0.26 min
Lab File: VN060831.D
Acq: 2 Apr 2020 18:57

Tgt Ion:173 Resp: 158
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: VN060831.D

Acq: 2 Apr 2020 18:57

Instrument :

MSVOA_N

ClientSampleId :

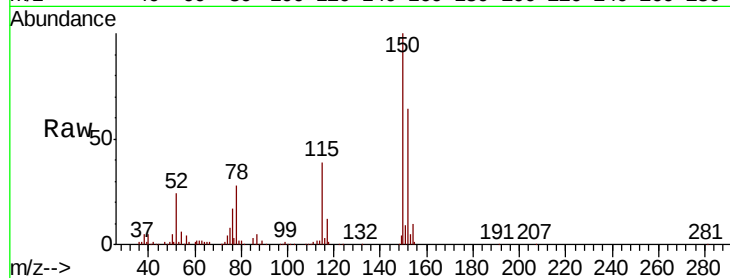
Tot Ion:152 Resp: 136903

Ion Ratio Lower Upper

152 100

115 59.9 30.2 90.6

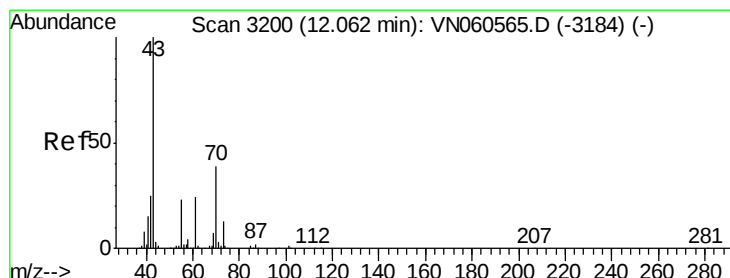
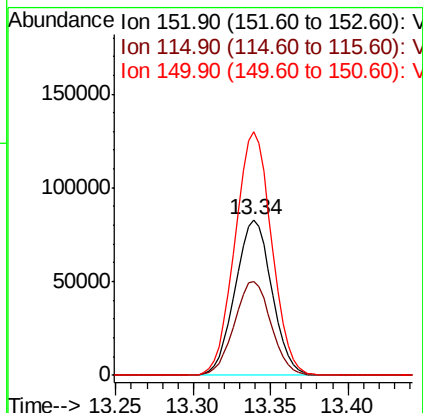
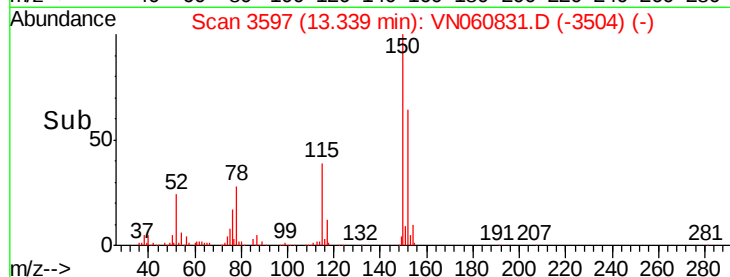
150 156.3 0.0 350.2



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



#74

N-ethyl acetate

Concen: 0.651 ug/l

RT: 12.02 min Scan# 3187

Delta R.T. -0.04 min

Lab File: VN060831.D

Acq: 2 Apr 2020 18:57

Tgt Ion: 43 Resp: 3092

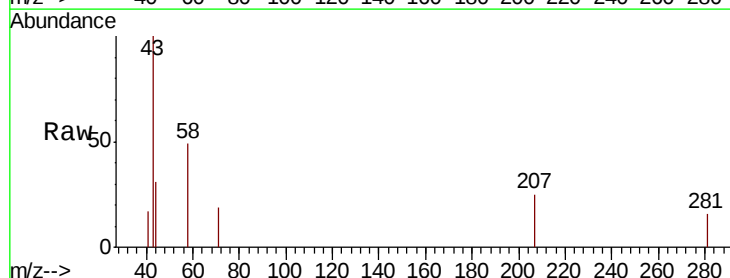
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 0.0 18.6 27.8#

61 0.0 18.9 28.3#

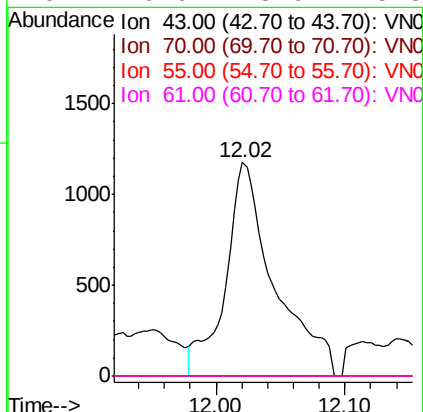
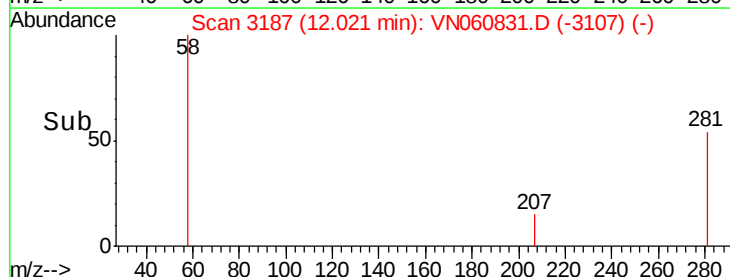


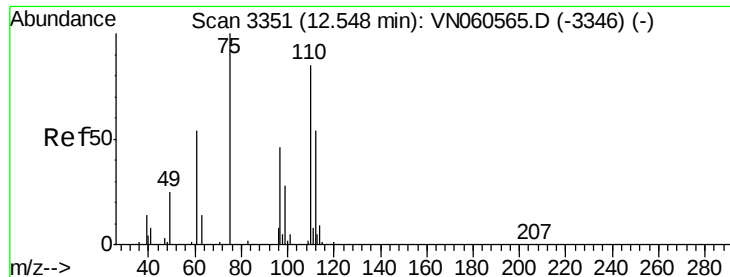
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

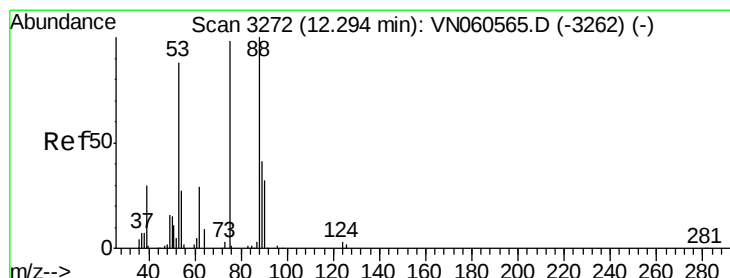
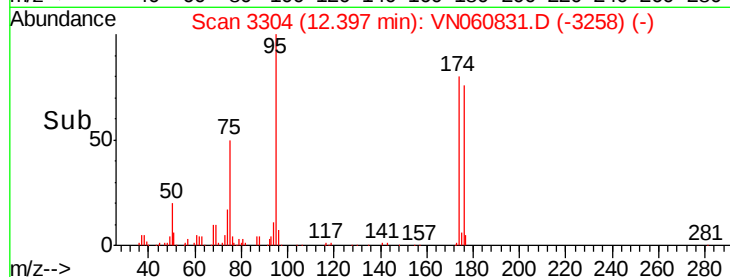
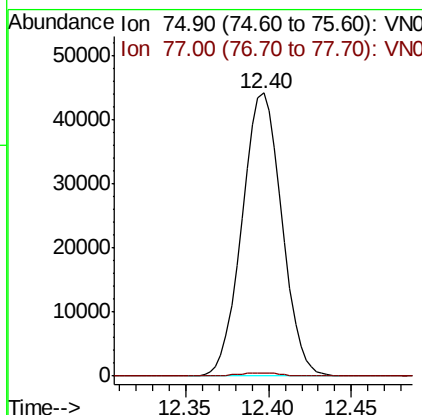
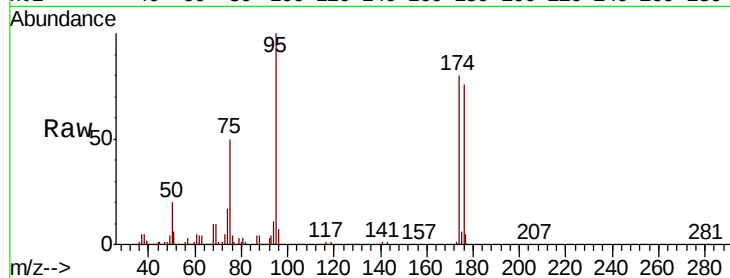




#76
 1,2,3-Trichloropropane
 Concen: 24.934 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. -0.15 min
 Lab File: VN060831.D
 Acq: 2 Apr 2020 18:57

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion: 75 Resp: 73658
 Ion Ratio Lower Upper
 75 100
 77 1.1 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 64.039 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. 0.10 min
 Lab File: VN060831.D
 Acq: 2 Apr 2020 18:57

Tgt Ion: 75 Resp: 73658
 Ion Ratio Lower Upper
 75 100
 53 0.0 73.0 109.4#
 89 0.0 34.8 52.2#

