

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN040220\
 Data File : VN060827.D
 Acq On : 2 Apr 2020 17:01
 Operator : JC/MD
 Sample : L2097-22
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 03 07:44:00 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	206358	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	344895	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	328484	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	154720	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	133878	47.26	ug/l	0.00
Spiked Amount						
			Recovery	=	94.52%	
35) Dibromofluoromethane	7.56	113	102326	49.07	ug/l	0.00
Spiked Amount						
			Recovery	=	98.14%	
50) Toluene-d8	10.08	98	422812	49.64	ug/l	0.00
Spiked Amount						
			Recovery	=	99.28%	
62) 4-Bromofluorobenzene	12.40	95	163142	52.26	ug/l	0.00
Spiked Amount						
			Recovery	=	104.52%	

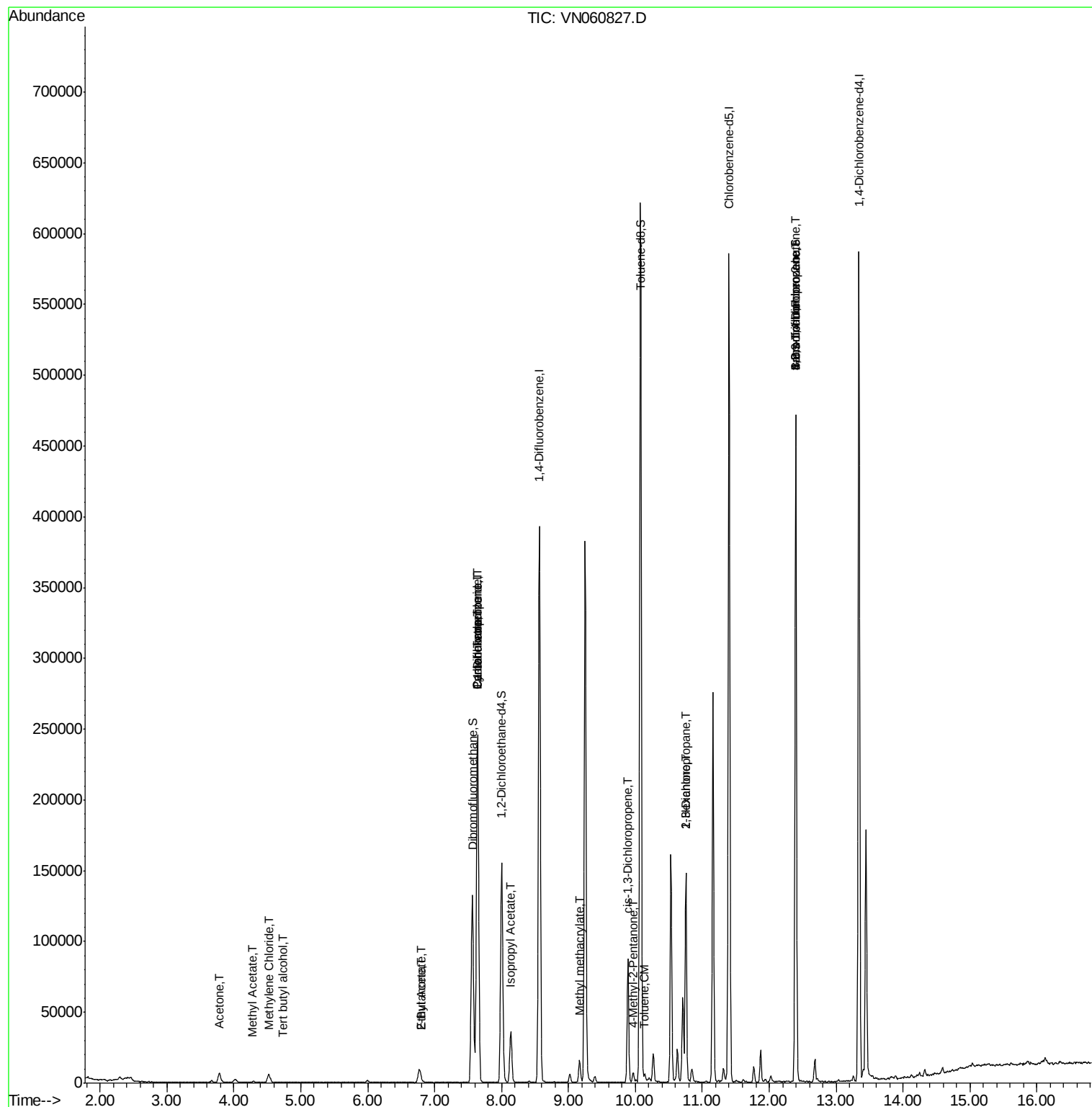
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	489	1.174	ug/l #	72
16) Acetone	3.78	43	11481	11.442	ug/l	96
18) Methyl Acetate	4.28	43	1789	0.633	ug/l #	54
20) Methylene Chloride	4.52	84	4634	1.877	ug/l #	94
25) 2-Butanone	6.80	43	1952	1.202	ug/l	94
31) Cyclohexane	7.64	56	4389	0.962	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	15738	4.712	ug/l #	50
37) Ethyl Acetate	6.80	43	1952	0.541	ug/l #	70
38) Carbon Tetrachloride	7.64	117	19528	6.524	ug/l #	16
43) Isopropyl Acetate	8.14	43	43382	7.290	ug/l #	90
48) Methyl methacrylate	9.16	41	3156	1.191	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	5249	1.550	ug/l	95
52) Toluene	10.14	92	2815	0.462	ug/l	98
54) cis-1,3-Dichloropropene	9.89	75	15193	3.608	ug/l #	62
57) 1,3-Dichloropropane	10.75	76	1385	0.341	ug/l #	42
59) 2-Hexanone	10.75	43	21056	8.631	ug/l #	53
71) Bromoform	12.39	173	170	1.764	ug/l #	29
76) 1,2,3-Trichloropropane	12.40	75	83080	24.885	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	83080	63.912	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: VN060827.D

Acq: 2 Apr 2020 17:01

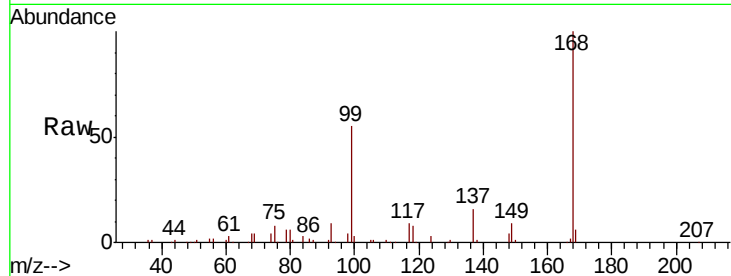
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 206358

Ion Ratio Lower Upper

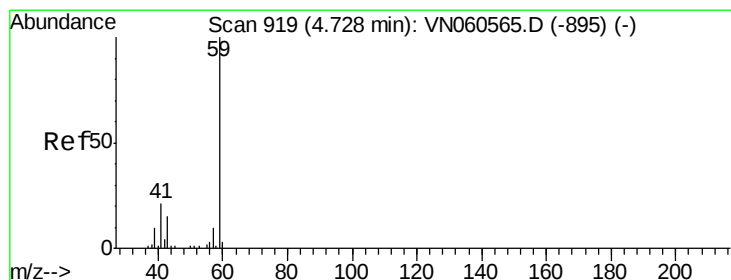
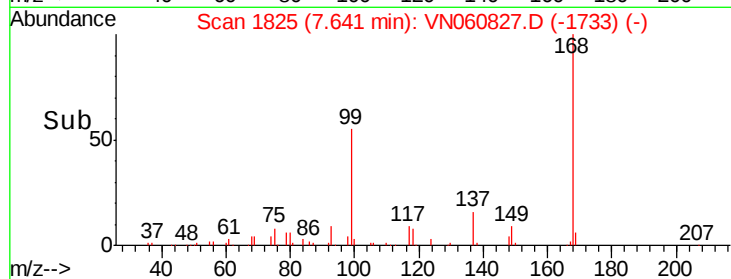
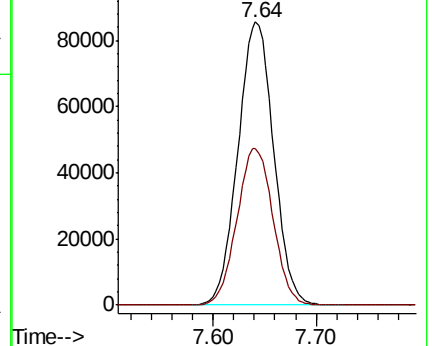
168 100

99 55.3 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: 1.174 ug/l

RT: 4.73 min Scan# 919

Delta R.T. 0.00 min

Lab File: VN060827.D

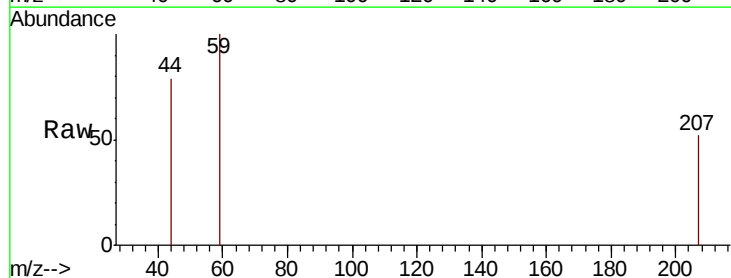
Acq: 2 Apr 2020 17:01

Tgt Ion: 59 Resp: 489

Ion Ratio Lower Upper

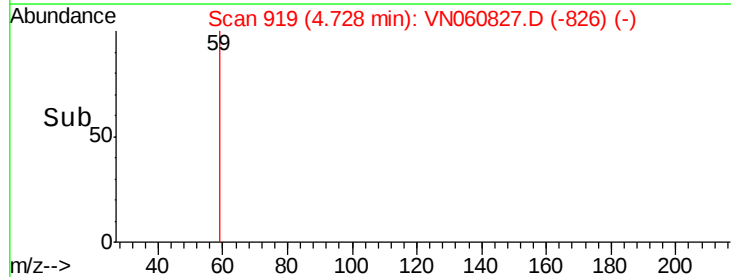
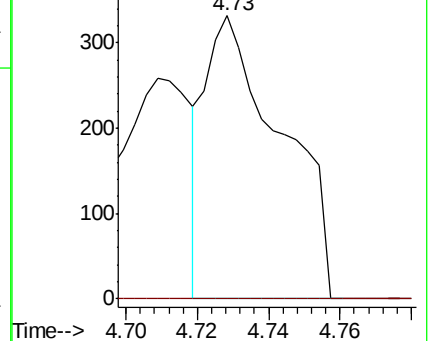
59 100

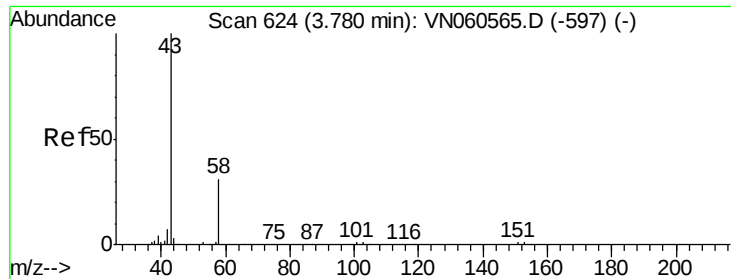
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

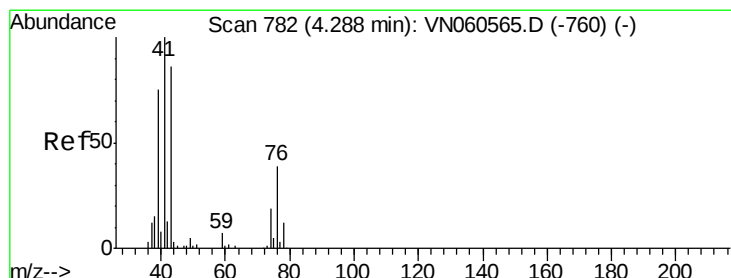
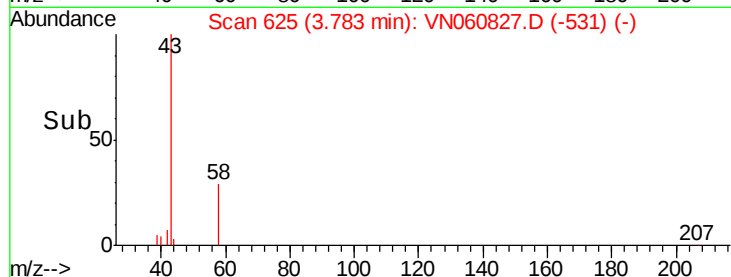
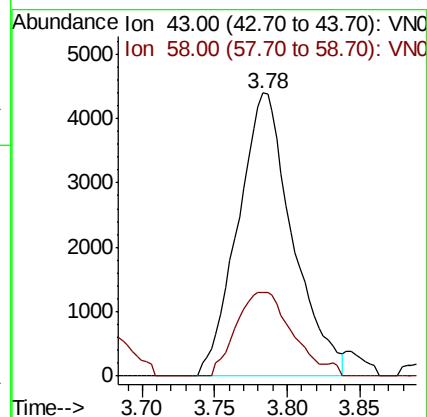
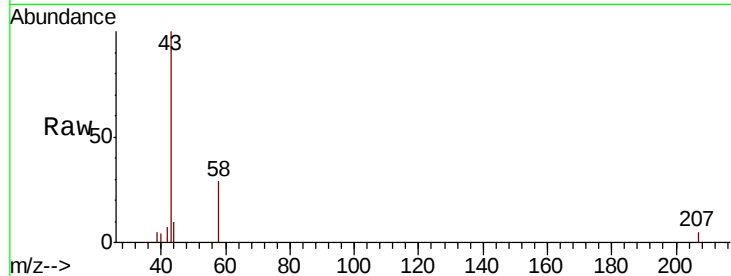




#16
Acetone
Concen: 11.442 ug/l
RT: 3.78 min Scan# 625
Delta R.T. 0.00 min
Lab File: VN060827.D
Acq: 2 Apr 2020 17:01

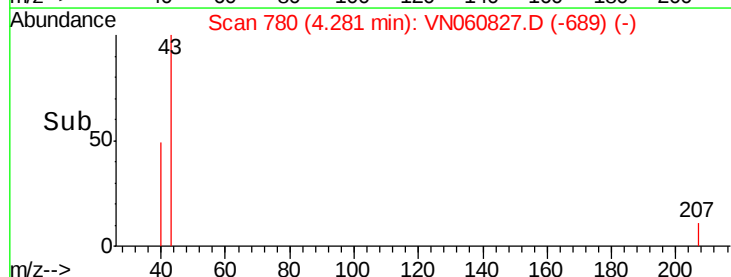
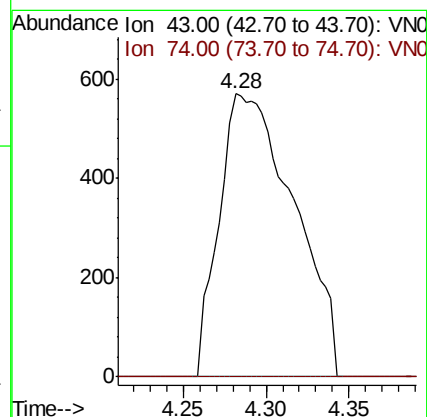
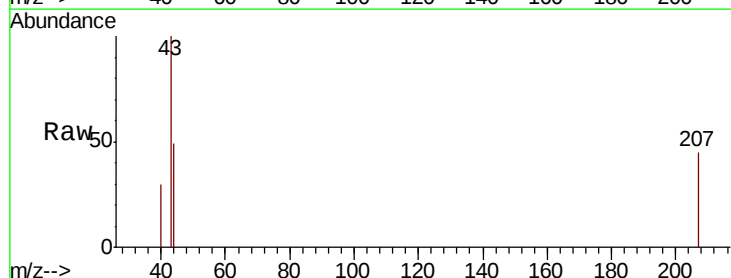
Instrument :
MSVOA_N
ClientSampleId :

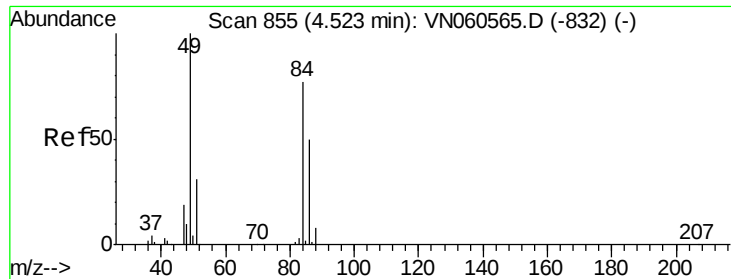
Tot Ion: 43 Resp: 11481
Ion Ratio Lower Upper
43 100
58 29.4 25.1 37.7



#18
Methyl Acetate
Concen: 0.633 ug/l
RT: 4.28 min Scan# 780
Delta R.T. -0.01 min
Lab File: VN060827.D
Acq: 2 Apr 2020 17:01

Tgt Ion: 43 Resp: 1789
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#

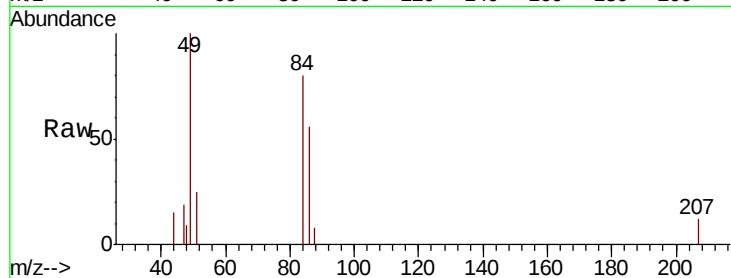




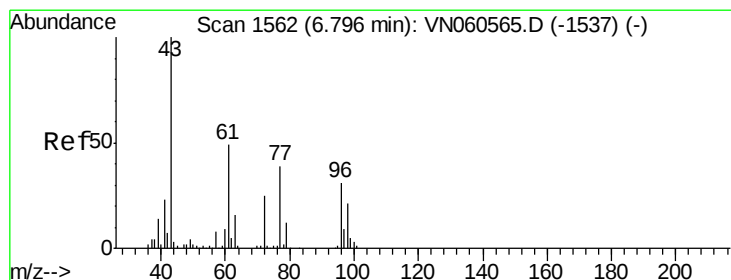
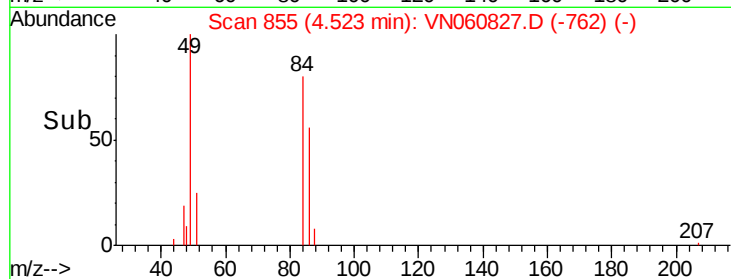
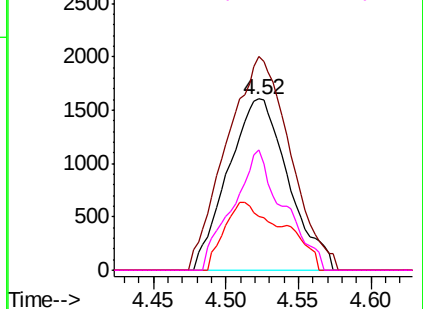
#20
Methylene Chloride
Concen: 1.877 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN060827.D
Acq: 2 Apr 2020 17:01

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 84 Resp: 4634
Ion Ratio Lower Upper
84 100
49 124.8 103.3 154.9
51 31.3 31.6 47.4#
86 70.0 52.0 78.0

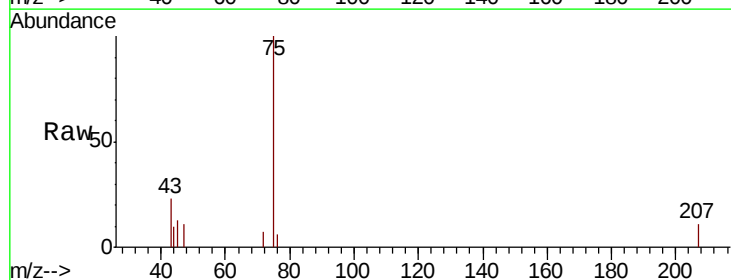


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

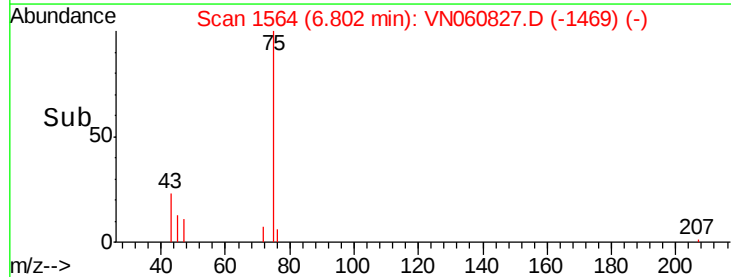
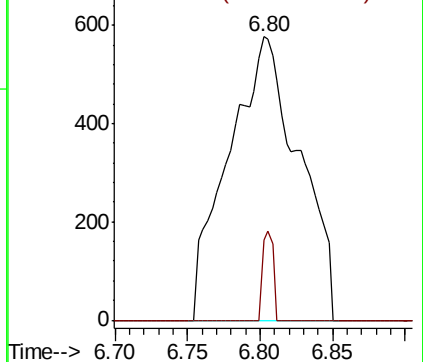


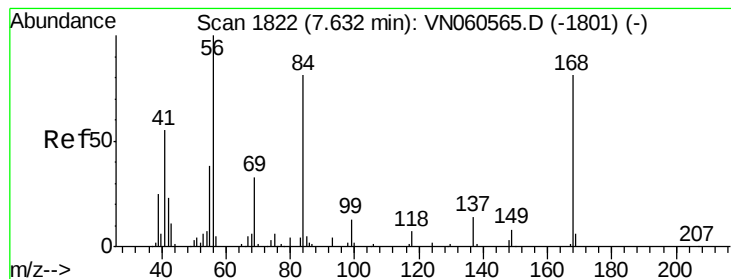
#25
2-Butanone
Concen: 1.202 ug/l
RT: 6.80 min Scan# 1564
Delta R.T. 0.01 min
Lab File: VN060827.D
Acq: 2 Apr 2020 17:01

Tgt Ion: 43 Resp: 1952
Ion Ratio Lower Upper
43 100
72 28.4 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: 0.962 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. 0.01 min

Lab File: VN060827.D

Acq: 2 Apr 2020 17:01

Instrument :

MSVOA_N

ClientSampled :

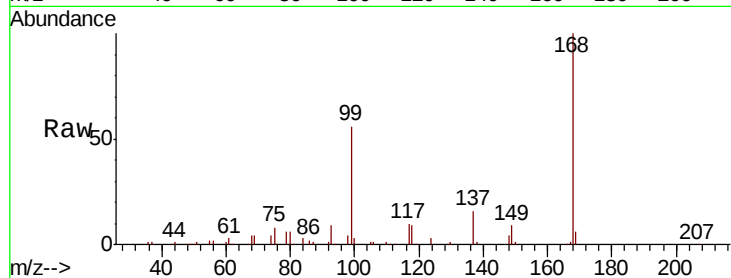
Tot Ion: 56 Resp: 4389

Ion Ratio Lower Upper

56 100

69 172.6 26.6 40.0#

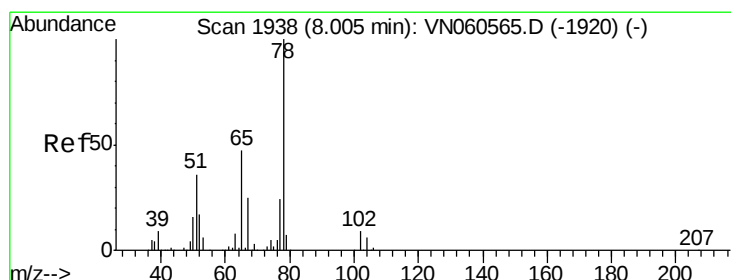
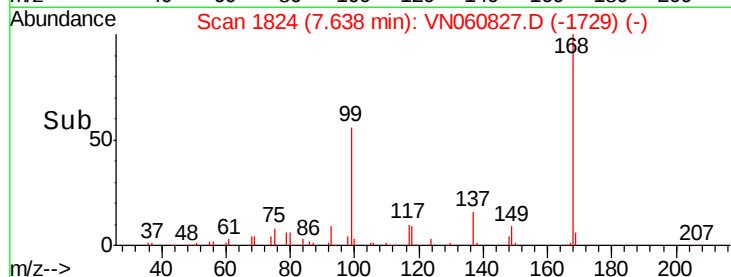
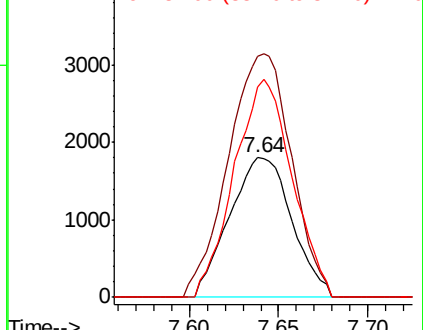
84 151.2 64.3 96.5#



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: 47.260 ug/l

RT: 8.00 min Scan# 1937

Delta R.T. -0.00 min

Lab File: VN060827.D

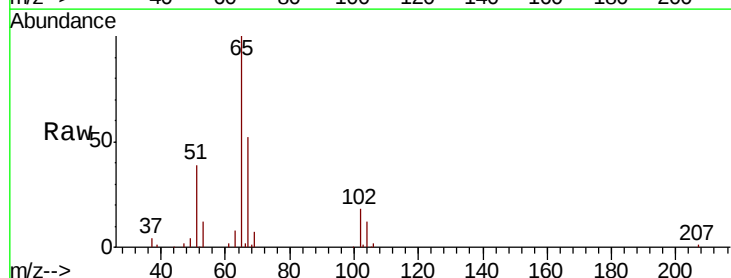
Acq: 2 Apr 2020 17:01

Tgt Ion: 65 Resp: 133878

Ion Ratio Lower Upper

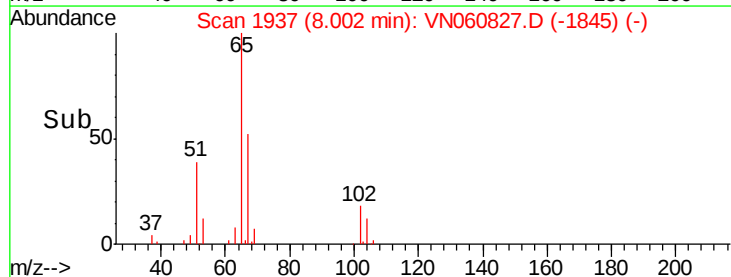
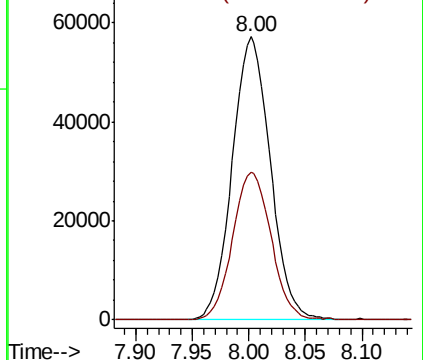
65 100

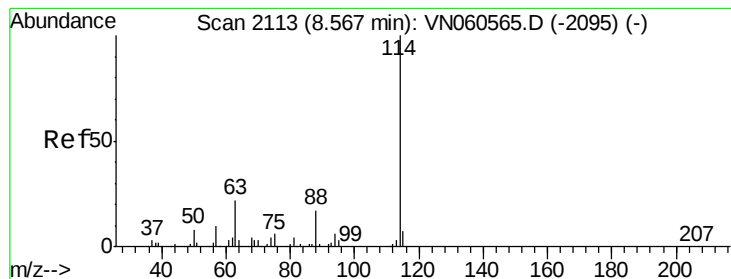
67 52.8 0.0 107.6



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: 8.56 min Scan# 2112

Delta R.T. -0.00 min

Lab File: VN060827.D

Acq: 2 Apr 2020 17:01

Instrument :

MSVOA_N

ClientSampleId :

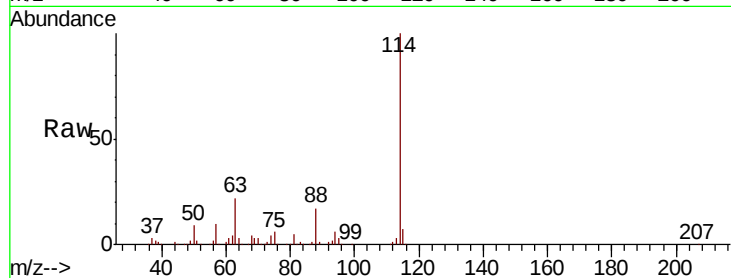
Tot Ion:114 Resp: 344895

Ion Ratio Lower Upper

114 100

63 22.3 0.0 43.8

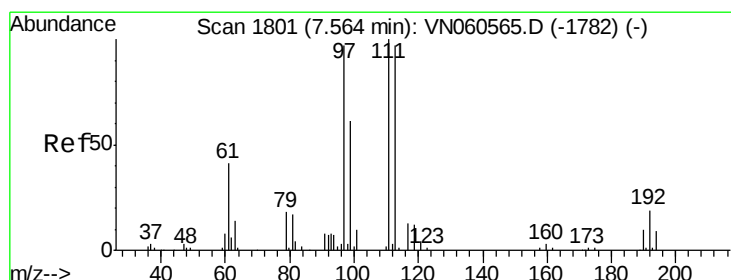
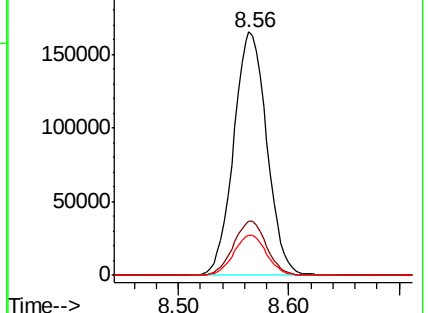
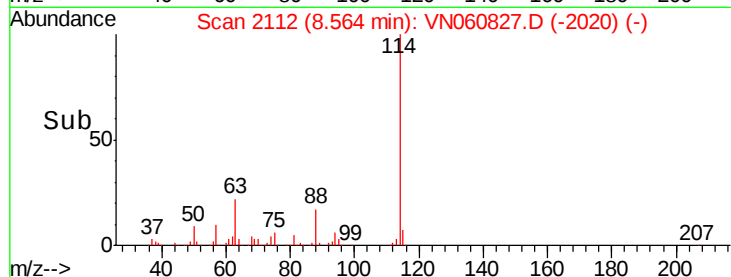
88 16.7 0.0 33.0



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: 49.066 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. 0.00 min

Lab File: VN060827.D

Acq: 2 Apr 2020 17:01

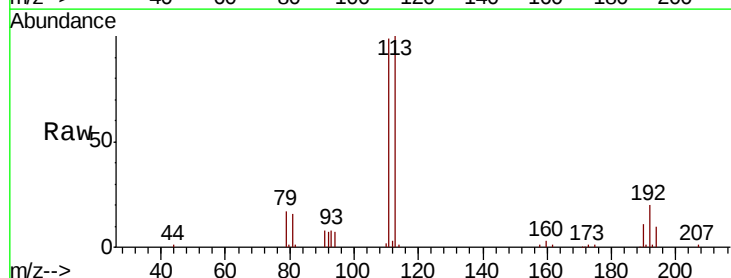
Tgt Ion:113 Resp: 102326

Ion Ratio Lower Upper

113 100

111 102.4 82.9 124.3

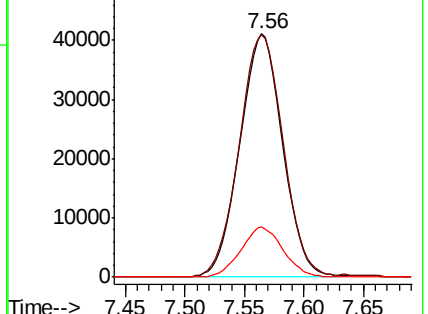
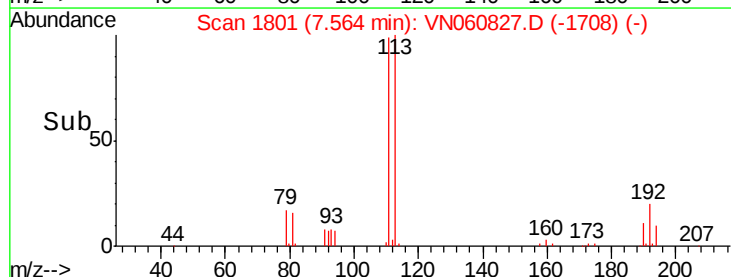
192 20.1 15.8 23.8

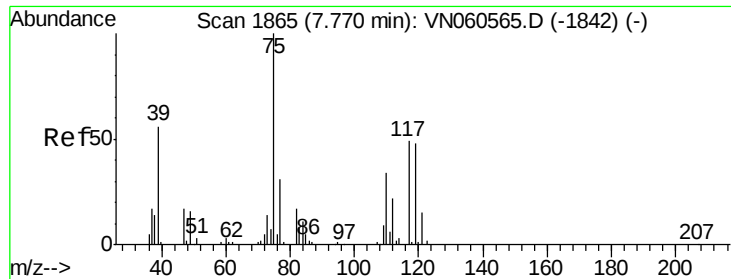


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.712 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN060827.D

Acq: 2 Apr 2020 17:01

Instrument :

MSVOA_N

ClientSampled :

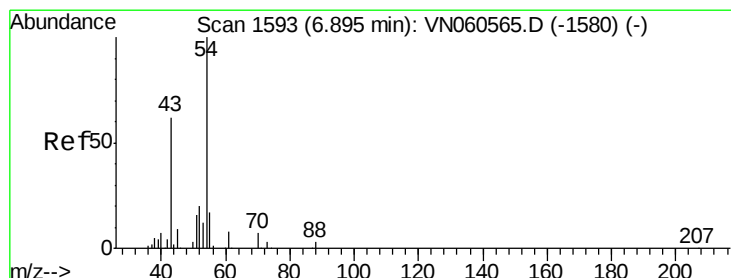
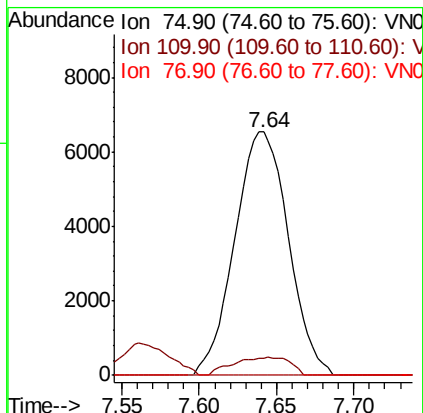
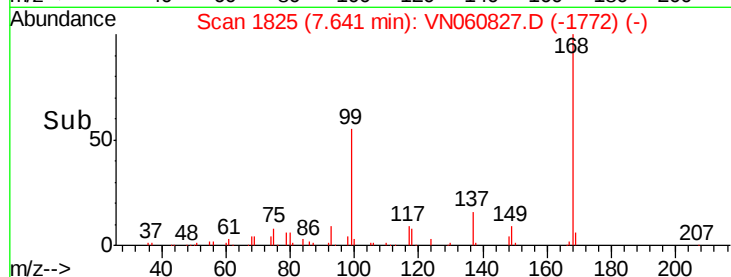
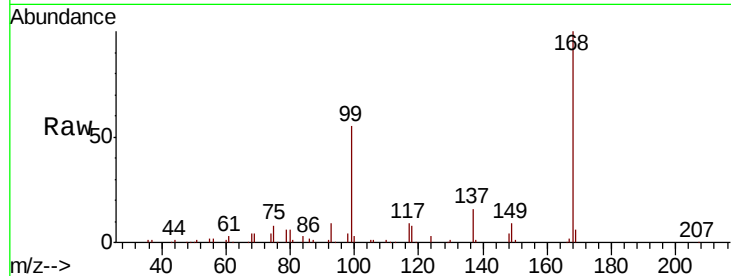
Tot Ion: 75 Resp: 15738

Ion Ratio Lower Upper

75 100

110 7.8 16.9 50.6#

77 0.0 24.6 36.8#



#37

Ethyl Acetate

Concen: 0.541 ug/l

RT: 6.80 min Scan# 1564

Delta R.T. -0.09 min

Lab File: VN060827.D

Acq: 2 Apr 2020 17:01

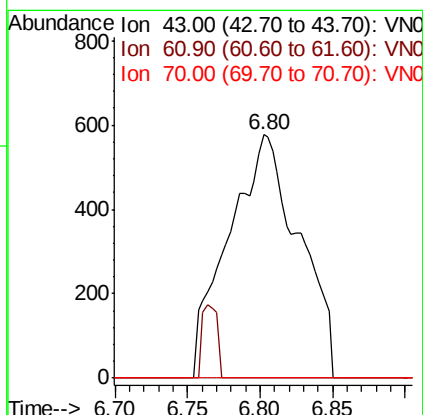
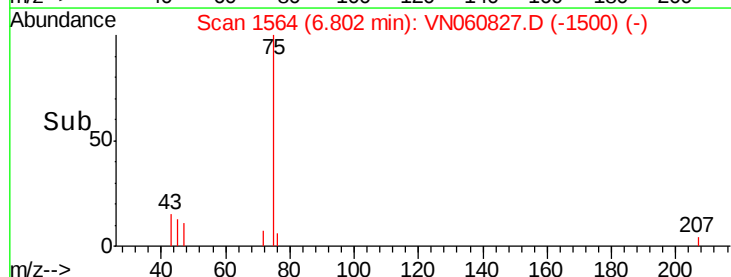
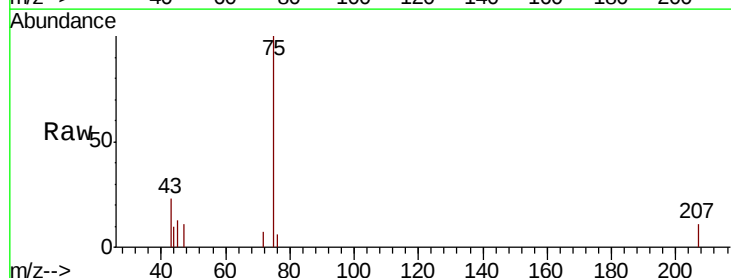
Tgt Ion: 43 Resp: 1952

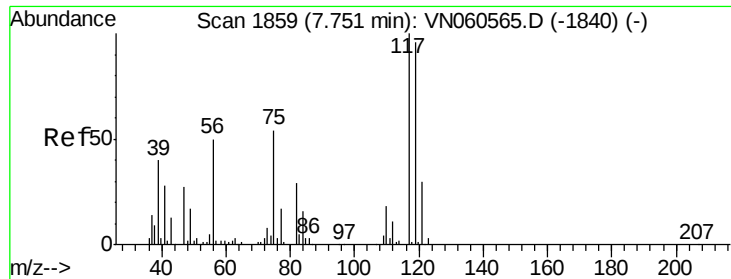
Ion Ratio Lower Upper

43 100

61 0.0 10.6 15.8#

70 0.0 7.9 11.9#

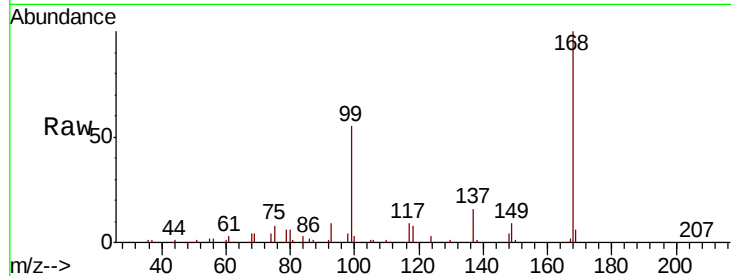




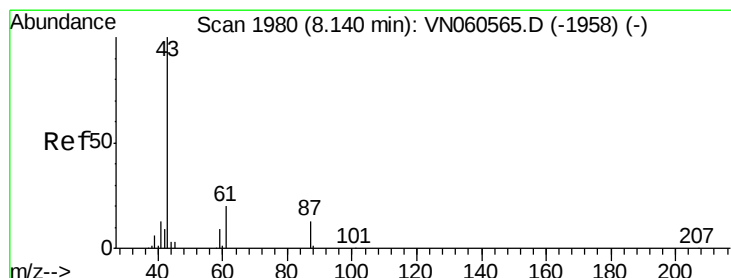
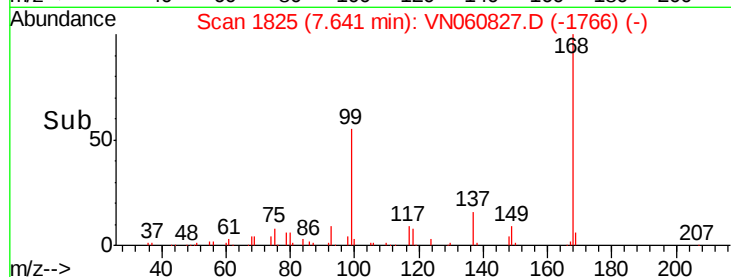
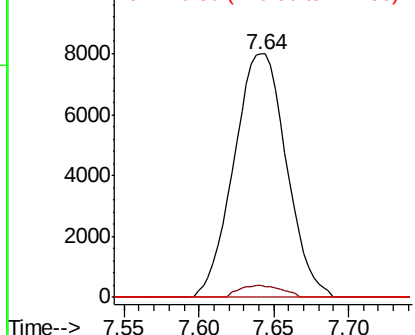
#38
Carbon Tetrachloride
Concen: 6.524 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.11 min
Lab File: VN060827.D
Acq: 2 Apr 2020 17:01

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 19528
Ion Ratio Lower Upper
117 100
119 4.9 76.2 114.2#
121 0.0 23.7 35.5#

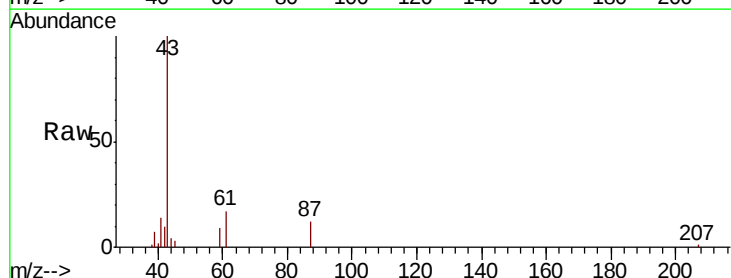


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

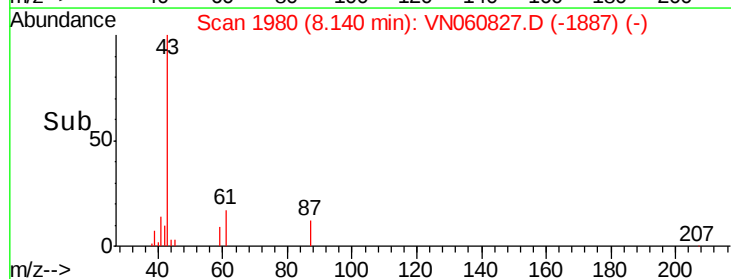
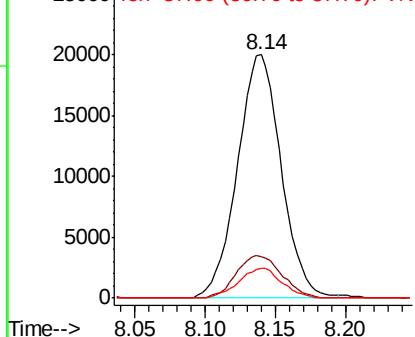


#43
Isopropyl Acetate
Concen: 7.290 ug/l
RT: 8.14 min Scan# 1980
Delta R.T. 0.00 min
Lab File: VN060827.D
Acq: 2 Apr 2020 17:01

Tgt Ion: 43 Resp: 43382
Ion Ratio Lower Upper
43 100
61 18.2 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

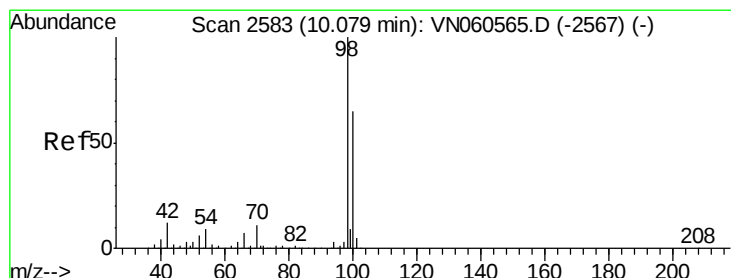
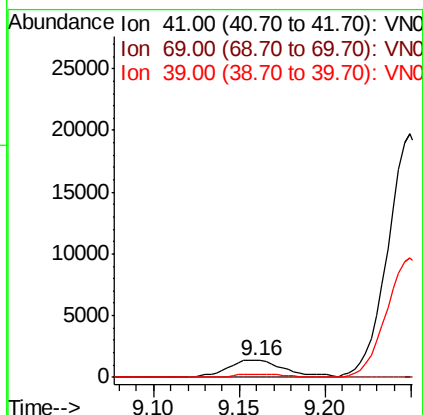
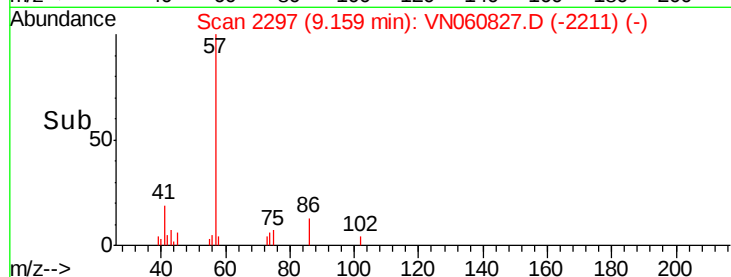
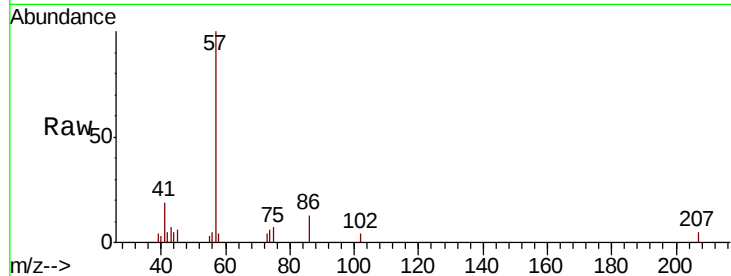




#48
Methvl methacrylate
Concen: 1.191 ug/l
RT: 9.16 min Scan# 2297
Delta R.T. -0.02 min
Lab File: VN060827.D
Acq: 2 Apr 2020 17:01

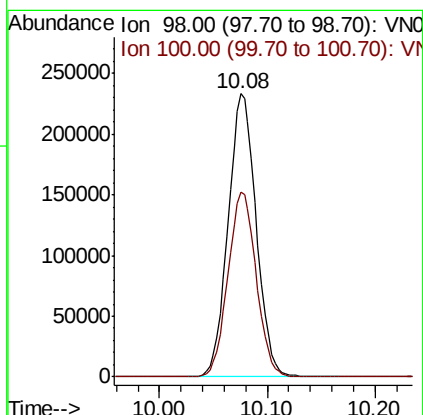
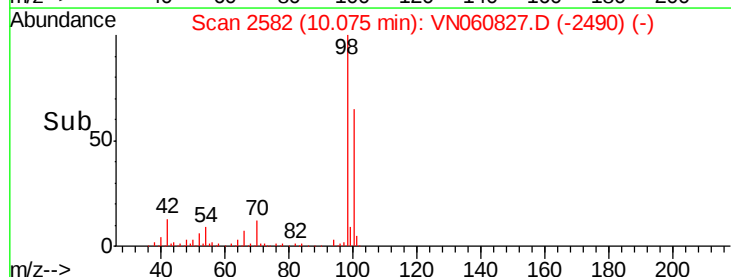
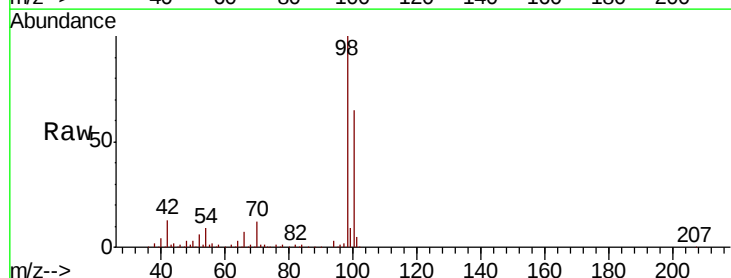
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 3156
Ion Ratio Lower Upper
41 100
69 0.0 65.4 98.0#
39 0.0 44.0 66.0#



#50
Toluene-d8
Concen: 49.636 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. -0.00 min
Lab File: VN060827.D
Acq: 2 Apr 2020 17:01

Tgt Ion: 98 Resp: 422812
Ion Ratio Lower Upper
98 100
100 65.8 51.8 77.8





#51

4-Methyl-2-Pentanone

Concen: 1.550 ug/l

RT: 9.97 min Scan# 2548

Delta R.T. -0.00 min

Lab File: VN060827.D

Acq: 2 Apr 2020 17:01

Instrument :

MSVOA_N

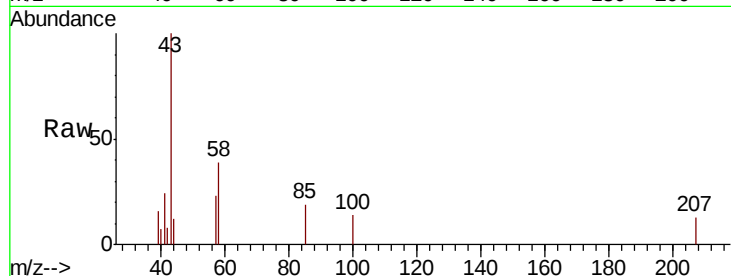
ClientSampled :

Tot Ion: 43 Resp: 5249

Ion Ratio Lower Upper

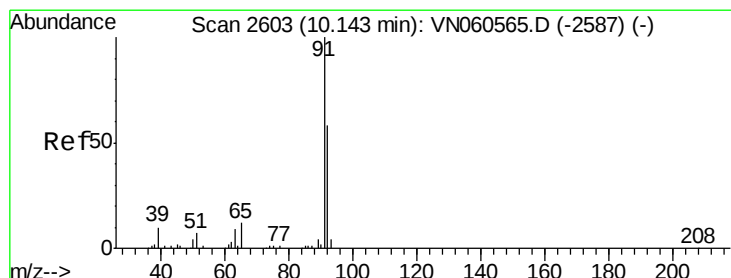
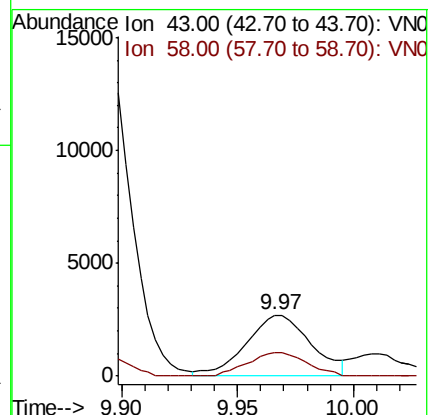
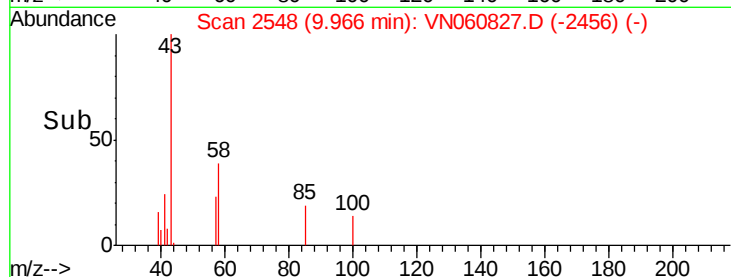
43 100

58 35.4 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: 0.462 ug/l

RT: 10.14 min Scan# 2603

Delta R.T. 0.00 min

Lab File: VN060827.D

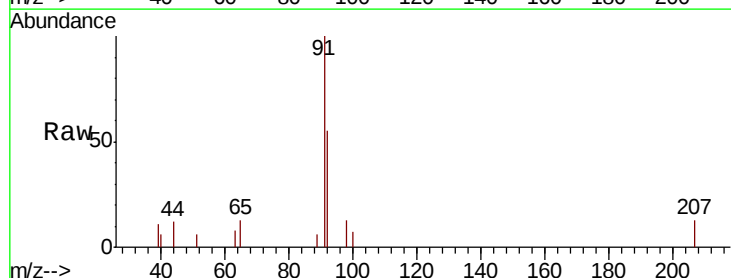
Acq: 2 Apr 2020 17:01

Tgt Ion: 92 Resp: 2815

Ion Ratio Lower Upper

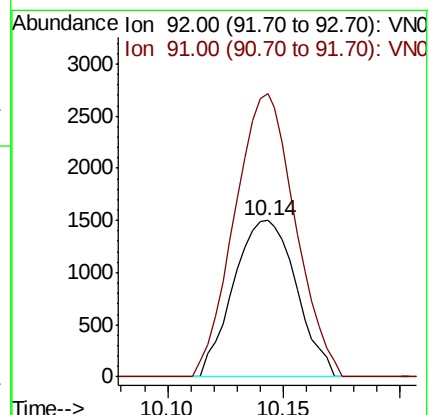
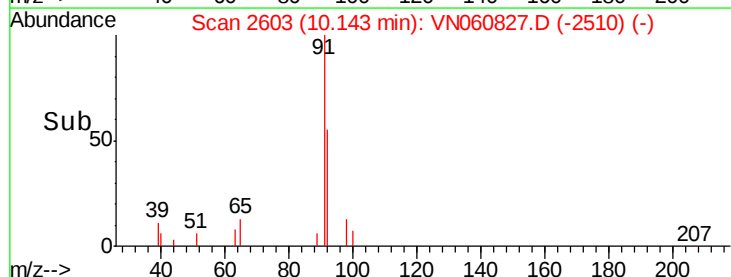
92 100

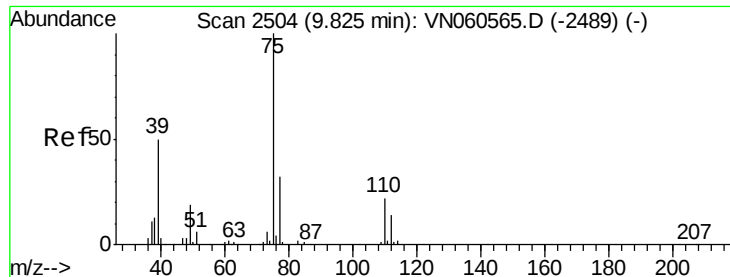
91 175.3 137.6 206.4



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: 3.608 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060827.D

Acq: 2 Apr 2020 17:01

Instrument :

MSVOA_N

ClientSampleId :

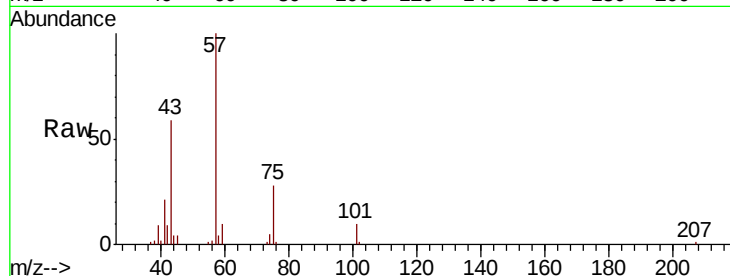
Tot Ion: 75 Resp: 15193

Ion Ratio Lower Upper

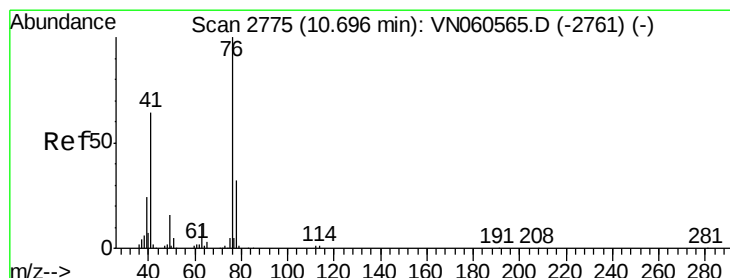
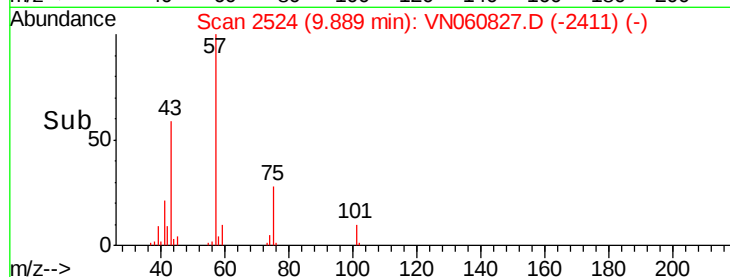
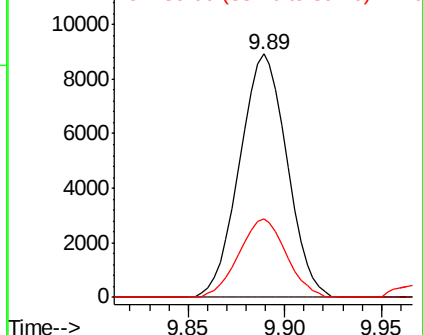
75 100

77 0.0 25.4 38.0#

39 32.5 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: 0.341 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060827.D

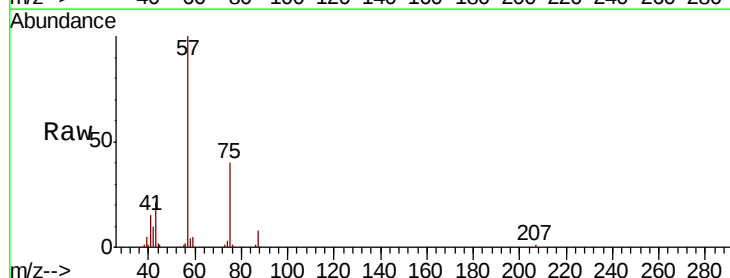
Acq: 2 Apr 2020 17:01

Tgt Ion: 76 Resp: 1385

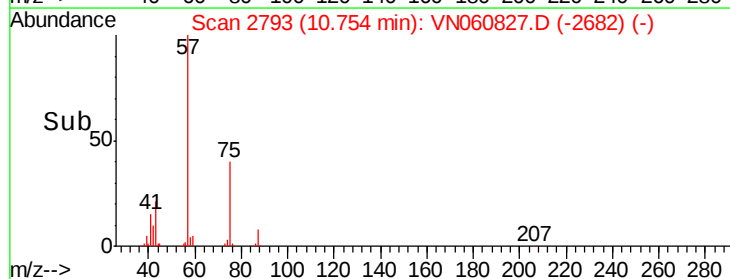
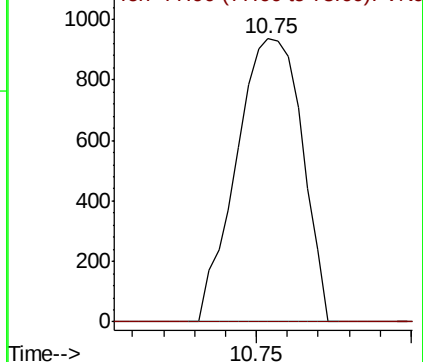
Ion Ratio Lower Upper

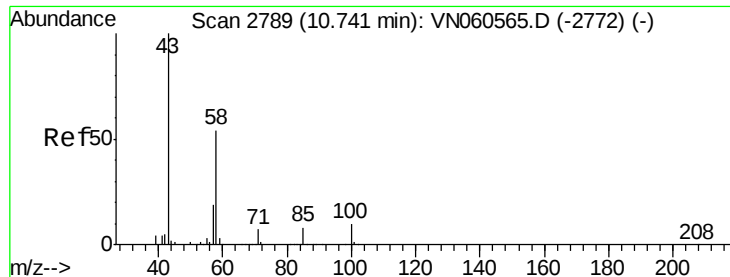
76 100

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

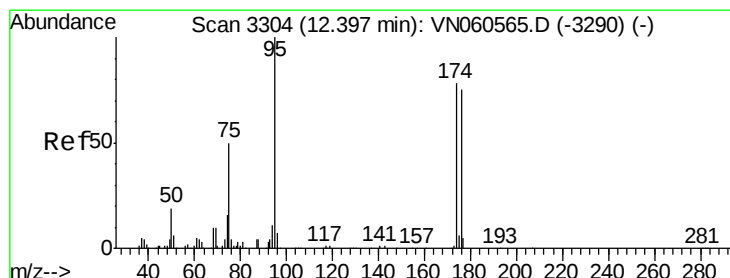
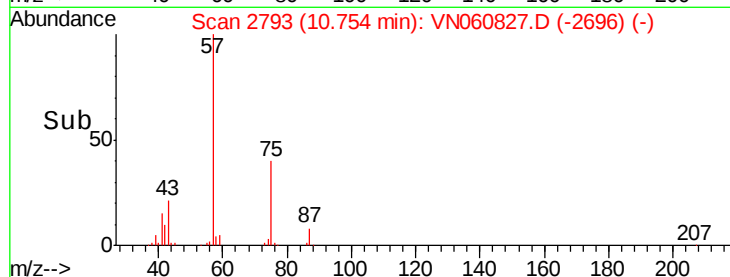
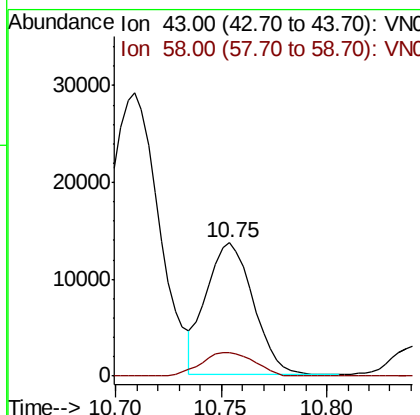
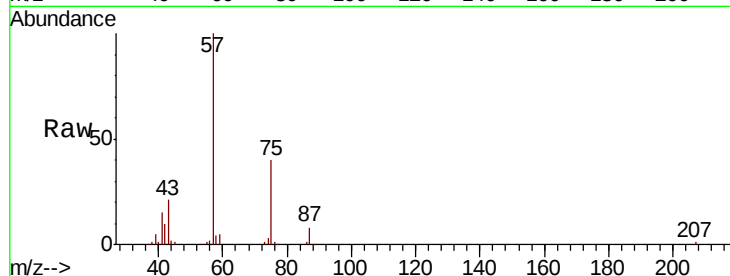




#59
2-Hexanone
Concen: 8.631 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060827.D
Acq: 2 Apr 2020 17:01

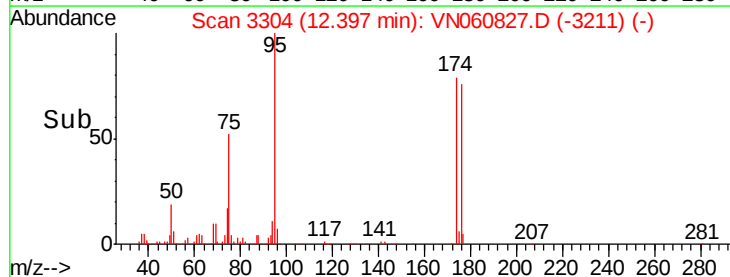
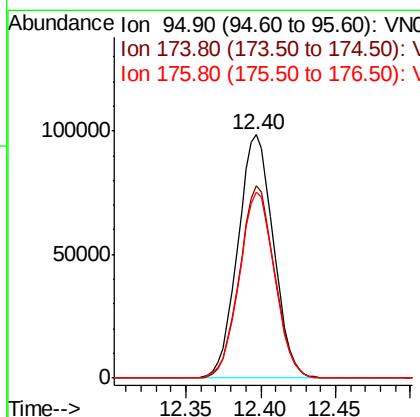
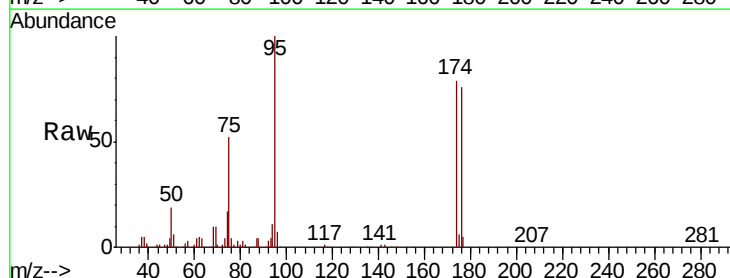
Instrument :
MSVOA_N
ClientSampleId :

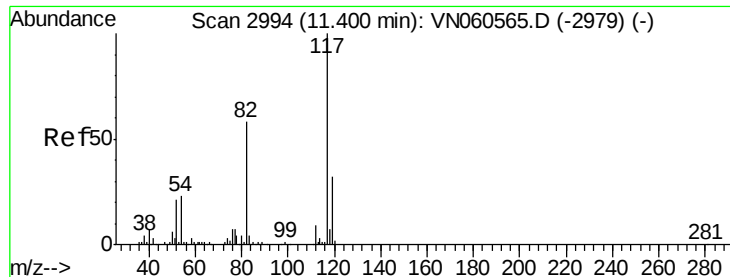
Tot Ion: 43 Resp: 21056
Ion Ratio Lower Upper
43 100
58 20.2 26.7 80.1#



#62
4-Bromofluorobenzene
Concen: 52.258 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN060827.D
Acq: 2 Apr 2020 17:01

Tgt Ion: 95 Resp: 163142
Ion Ratio Lower Upper
95 100
174 77.8 0.0 157.6
176 75.8 0.0 150.6

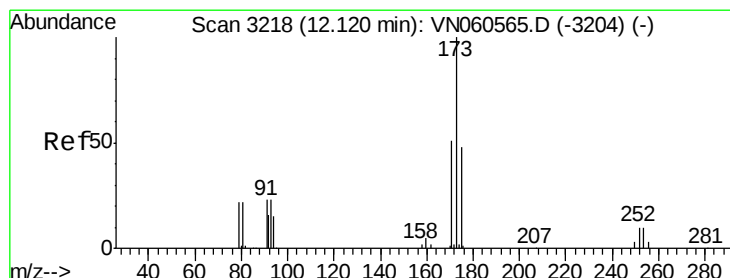
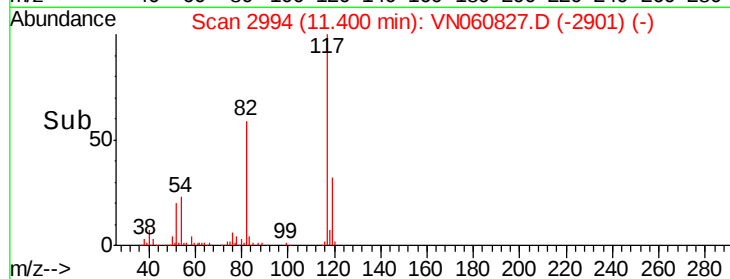
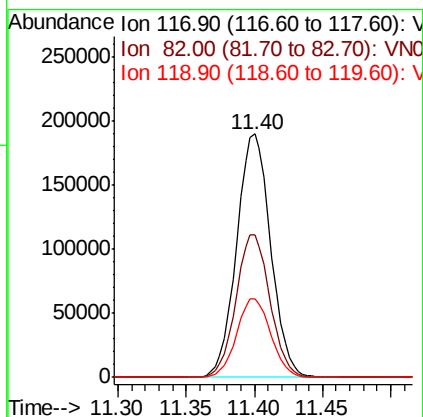
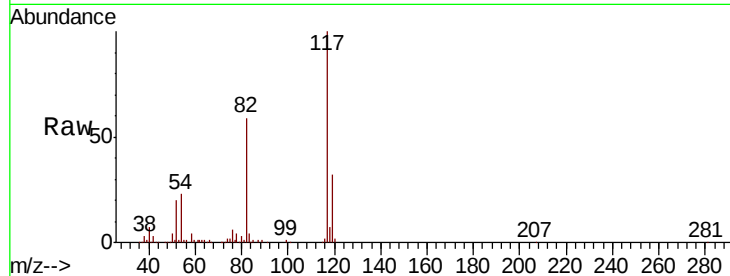




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN060827.D
Acq: 2 Apr 2020 17:01

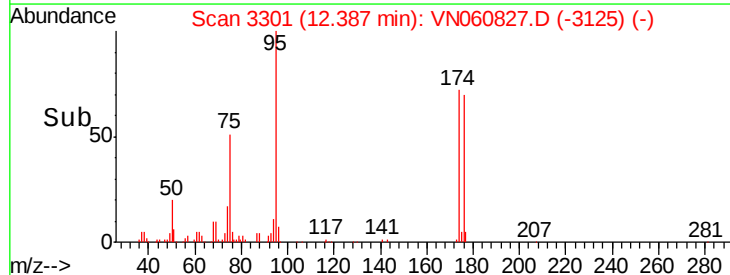
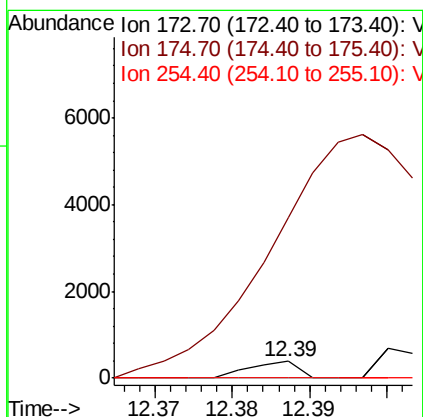
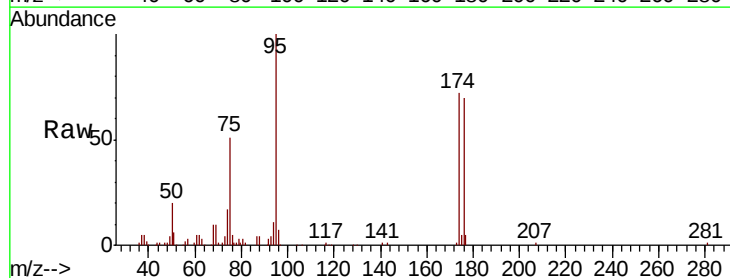
Instrument :
MSVOA_N
ClientSampleId :

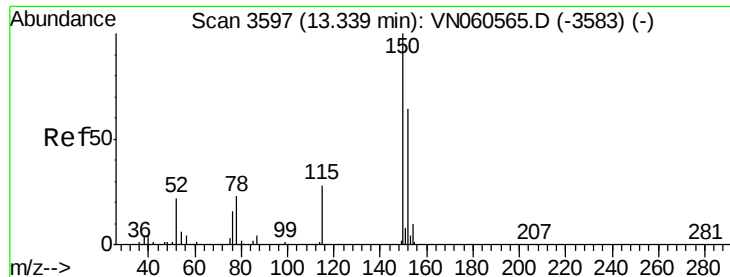
Tot Ion:117 Resp: 328484
Ion Ratio Lower Upper
117 100
82 58.6 46.7 70.1
119 32.4 25.5 38.3



#71
Bromoform
Concen: 1.764 ug/l
RT: 12.39 min Scan# 3301
Delta R.T. 0.27 min
Lab File: VN060827.D
Acq: 2 Apr 2020 17:01

Tgt Ion:173 Resp: 170
Ion Ratio Lower Upper
173 100
175 0.0 24.1 72.4#
254 0.0 0.0 0.0



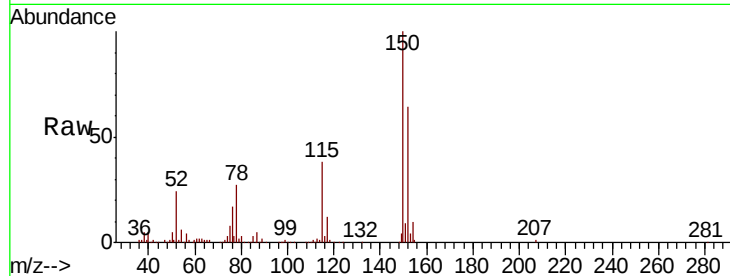


#72

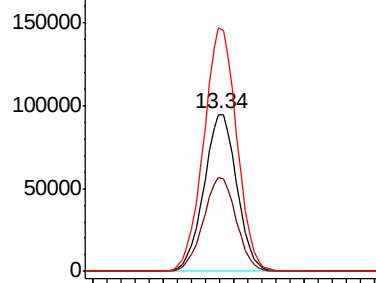
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. 0.00 min
Lab File: VN060827.D
Acq: 2 Apr 2020 17:01

Instrument :
MSVOA_N
ClientSampleId :

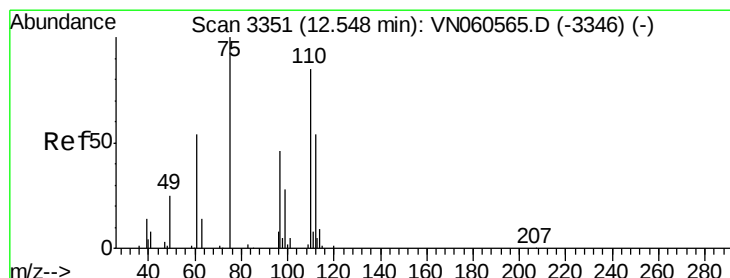
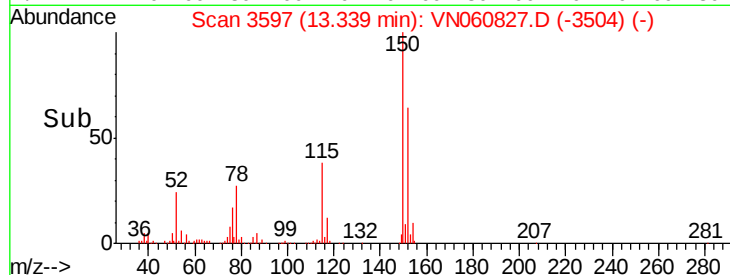
Tot Ion	Ratio	Lower	Upper
152	100		
115	59.7	30.2	90.6
150	156.1	0.0	350.2



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



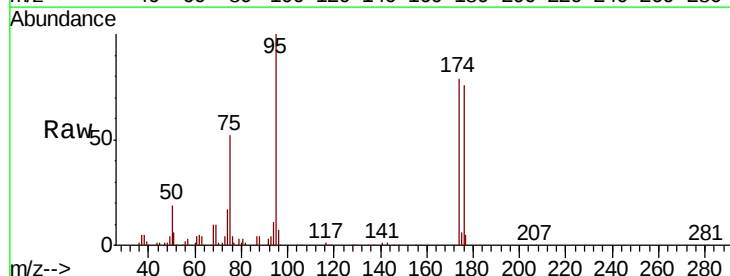
Time--> 13.25 13.30 13.35 13.40



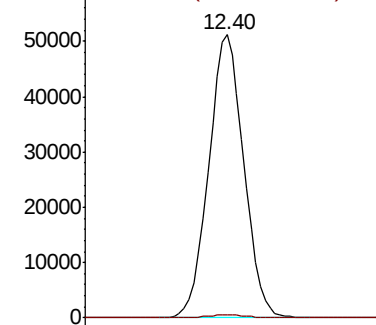
#76

1,2,3-Trichloropropane
Concen: 24.885 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.15 min
Lab File: VN060827.D
Acq: 2 Apr 2020 17:01

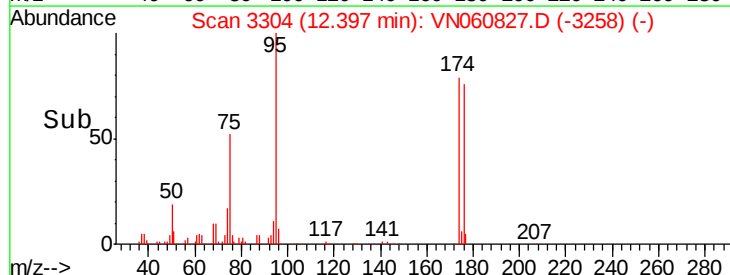
Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.1	0.0	0.0#

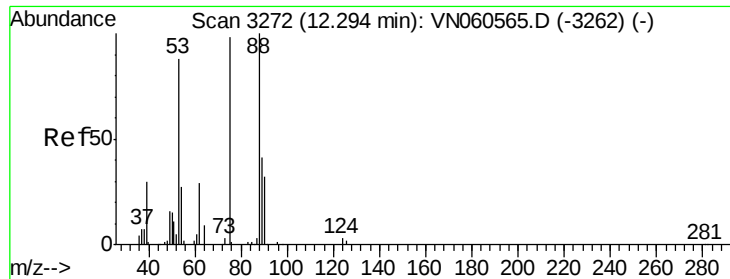


Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 77.00 (76.70 to 77.70): VN0



Time--> 12.35 12.40 12.45





#81

trans-1,4-Dichloro-2-butene

Concen: 63.912 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060827.D

Acq: 2 Apr 2020 17:01

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 75 Resp: 83080

Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.4#

89 0.0 34.8 52.2#

