

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN040220\
 Data File : VN060823.D
 Acq On : 2 Apr 2020 15:18
 Operator : JC/MD
 Sample : L2018-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 03 07:43:02 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	196782	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	331014	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	312604	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	141855	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	129093	47.79	ug/l	0.00
Spiked Amount			Recovery	=	95.58%	
35) Dibromofluoromethane	7.56	113	99102	49.51	ug/l	0.00
Spiked Amount			Recovery	=	99.02%	
50) Toluene-d8	10.08	98	408701	49.99	ug/l	0.00
Spiked Amount			Recovery	=	99.98%	
62) 4-Bromofluorobenzene	12.40	95	153184	51.13	ug/l	0.00
Spiked Amount			Recovery	=	102.26%	

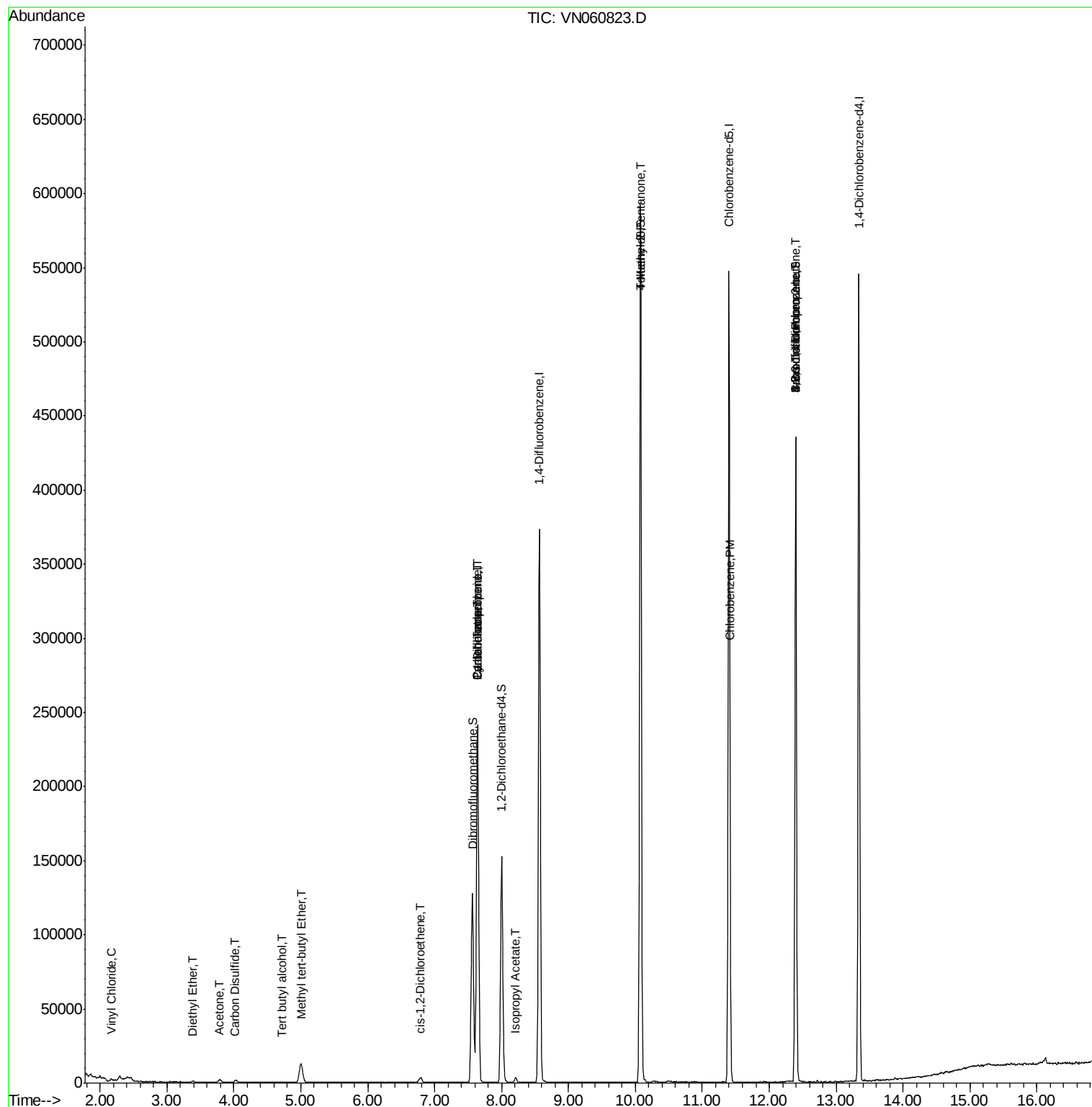
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	2.17	62	575	0.207	ug/l #	44
8) Diethyl Ether	3.38	74	350	0.254	ug/l #	46
11) Tert butyl alcohol	4.72	59	353	0.889	ug/l #	72
16) Acetone	3.78	43	3805	3.976	ug/l	94
17) Carbon Disulfide	4.02	76	2502	0.386	ug/l #	75
19) Methyl tert-butyl Ether	5.00	73	22062	3.012	ug/l	98
27) cis-1,2-Dichloroethene	6.80	96	1267	0.491	ug/l	88
31) Cyclohexane	7.64	56	4176	0.960	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	15356	4.791	ug/l #	49
38) Carbon Tetrachloride	7.64	117	18812	6.549	ug/l #	17
43) Isopropyl Acetate	8.21	43	1221	0.214	ug/l #	35
51) 4-Methyl-2-Pentanone	10.08	43	1921	0.591	ug/l #	1
65) Chlorobenzene	11.42	112	1626	0.262	ug/l	97
71) Bromoform	12.40	173	459	1.918	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	77401	25.287	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	77401	64.944	ug/l #	13

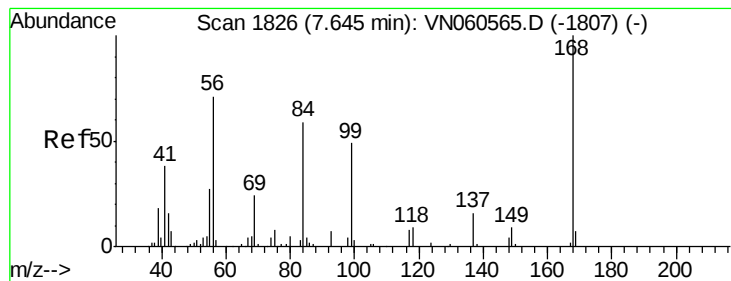
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN060823.D

Acq: 2 Apr 2020 15:18

Instrument :

MSVOA_N

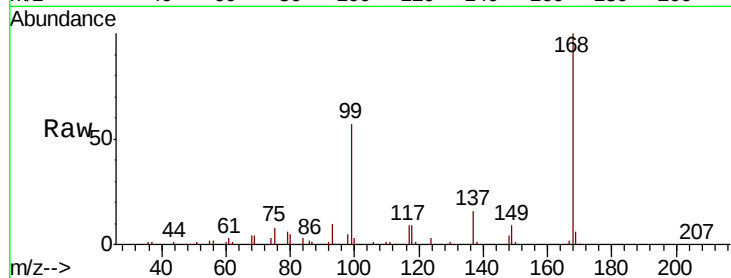
ClientSampleId :

Tot Ion:168 Resp: 196782

Ion Ratio Lower Upper

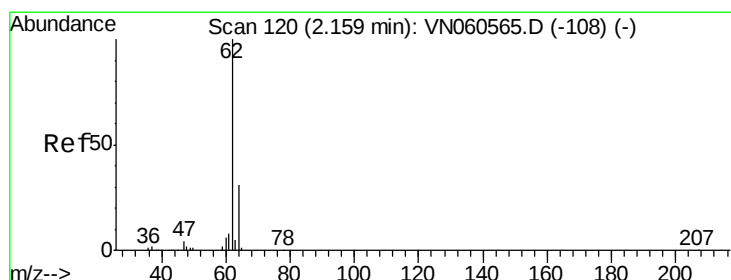
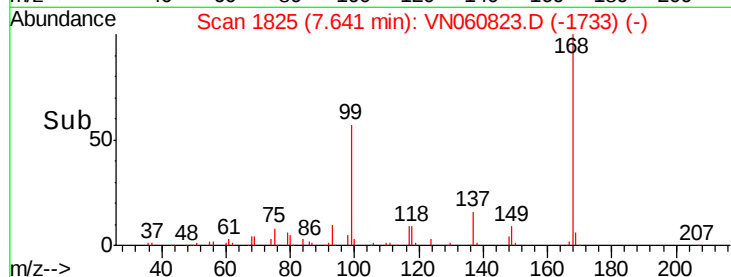
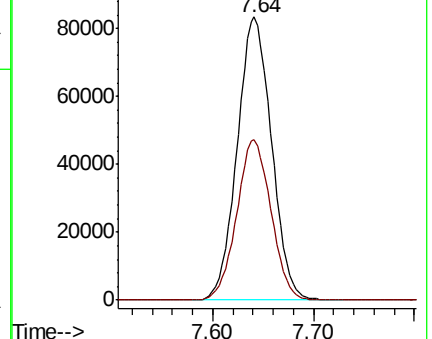
168 100

99 56.7 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#4

Vinyl Chloride

Concen: 0.207 ug/l

RT: 2.17 min Scan# 124

Delta R.T. 0.01 min

Lab File: VN060823.D

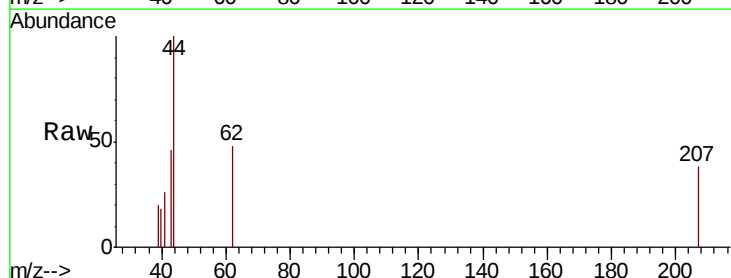
Acq: 2 Apr 2020 15:18

Tgt Ion: 62 Resp: 575

Ion Ratio Lower Upper

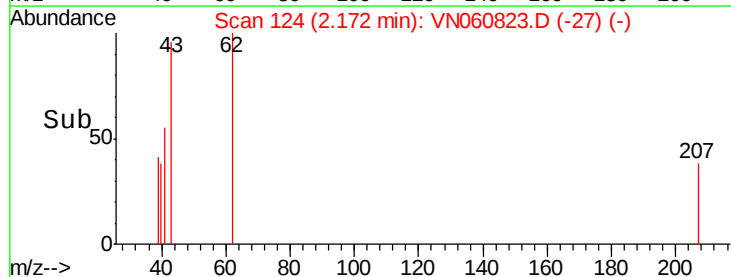
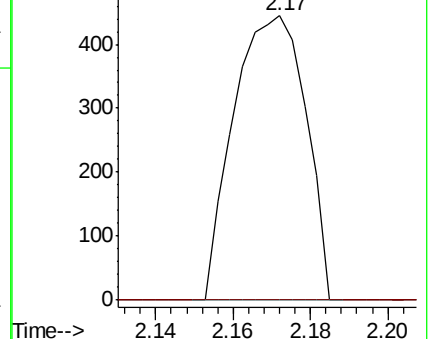
62 100

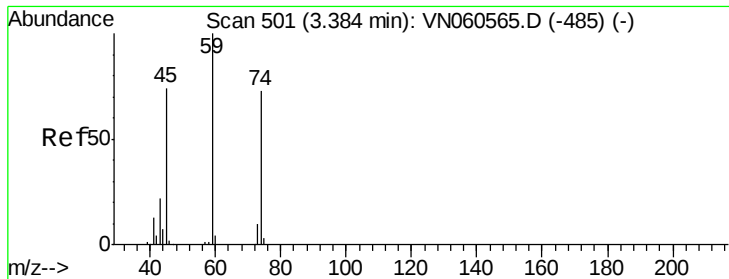
64 0.0 24.7 37.1#



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO





#8

Diethyl Ether

Concen: 0.254 ug/l

RT: 3.38 min Scan# 500

Delta R.T. -0.00 min

Lab File: VN060823.D

Acq: 2 Apr 2020 15:18

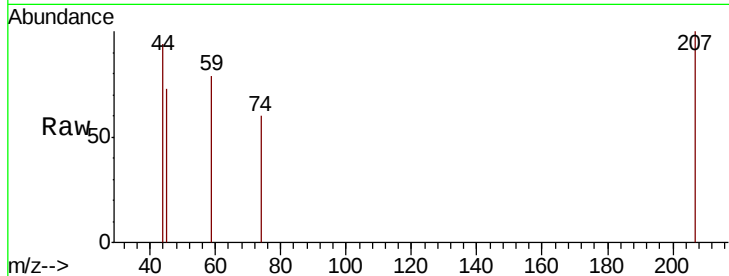
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 74 Resp: 350

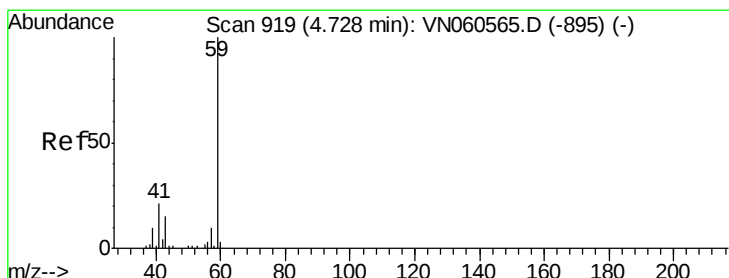
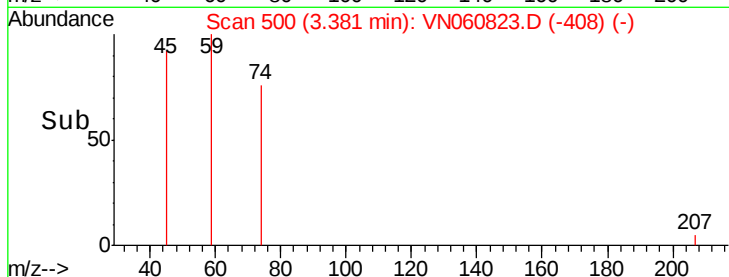
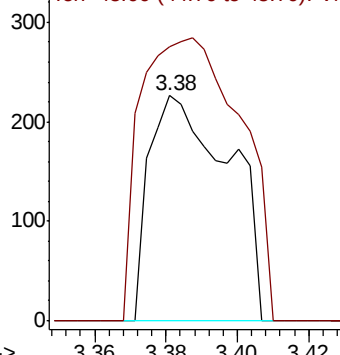
Ion Ratio Lower Upper

74 100

45 157.1 51.3 153.9#



Abundance Ion 74.00 (73.70 to 74.70): VN0
Ion 45.00 (44.70 to 45.70): VN0



#11

Tert butyl alcohol

Concen: 0.889 ug/l

RT: 4.72 min Scan# 915

Delta R.T. -0.01 min

Lab File: VN060823.D

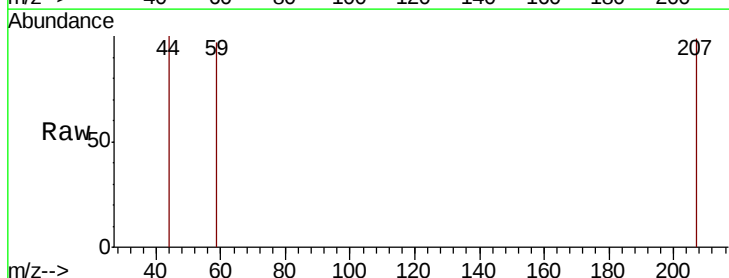
Acq: 2 Apr 2020 15:18

Tgt Ion: 59 Resp: 353

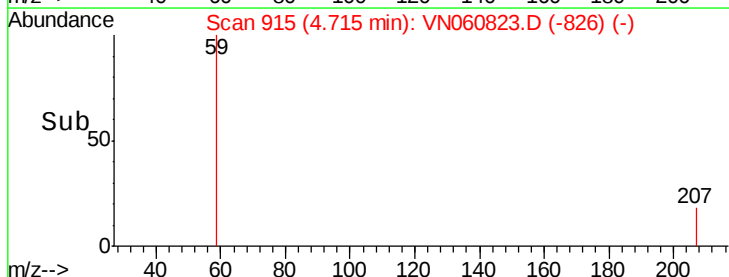
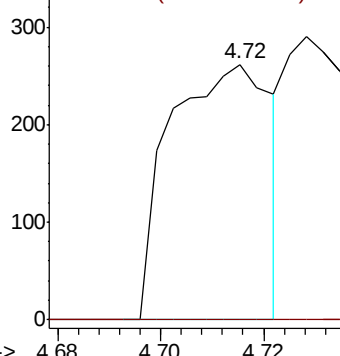
Ion Ratio Lower Upper

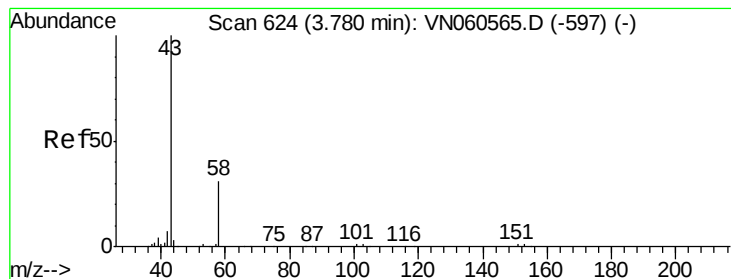
59 100

57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VN0
Ion 57.00 (56.70 to 57.70): VN0





#16

Acetone

Concen: 3.976 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.00 min

Lab File: VN060823.D

Acq: 2 Apr 2020 15:18

Instrument :

MSVOA_N

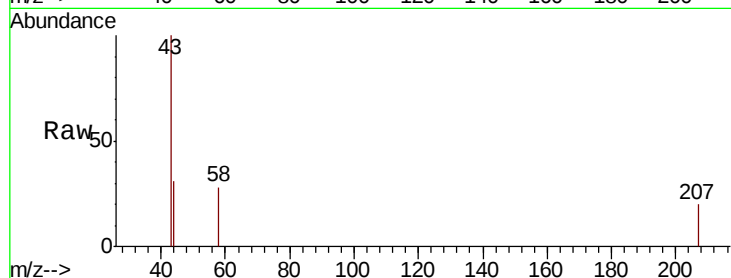
ClientSampled :

Tot Ion: 43 Resp: 3805

Ion Ratio Lower Upper

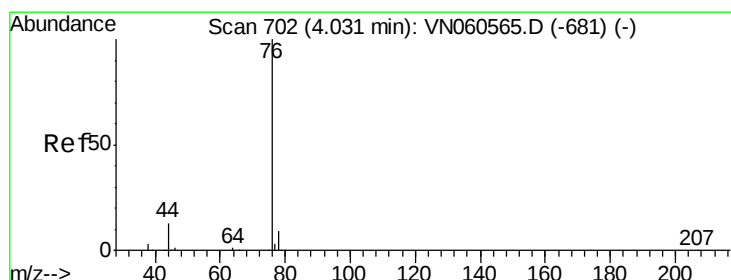
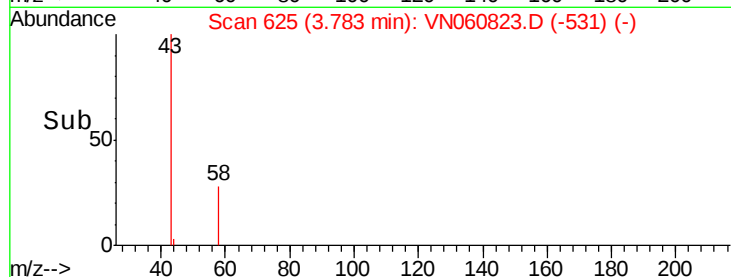
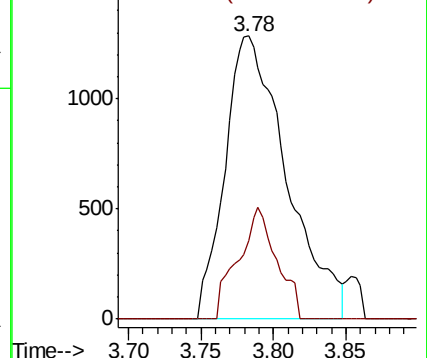
43 100

58 28.0 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#17

Carbon Disulfide

Concen: 0.386 ug/l

RT: 4.02 min Scan# 700

Delta R.T. -0.01 min

Lab File: VN060823.D

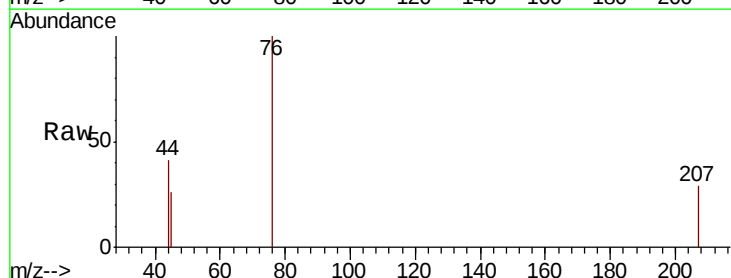
Acq: 2 Apr 2020 15:18

Tgt Ion: 76 Resp: 2502

Ion Ratio Lower Upper

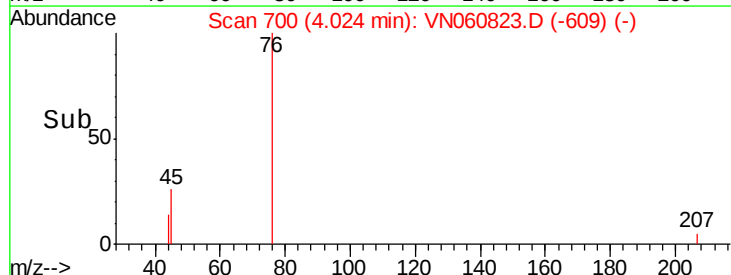
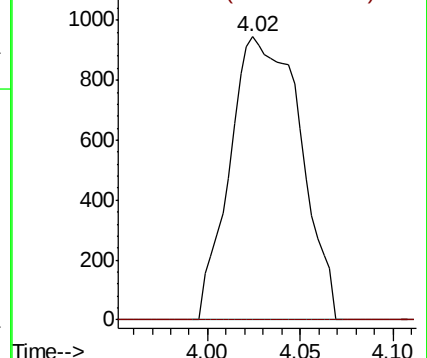
76 100

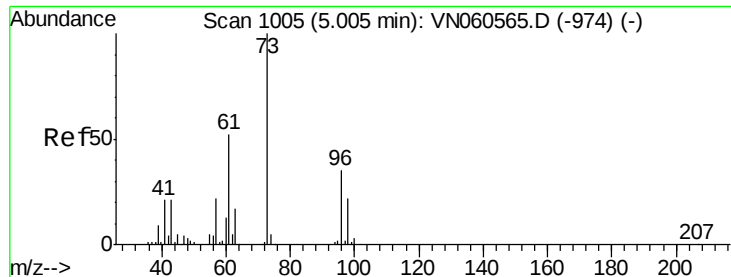
78 0.0 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

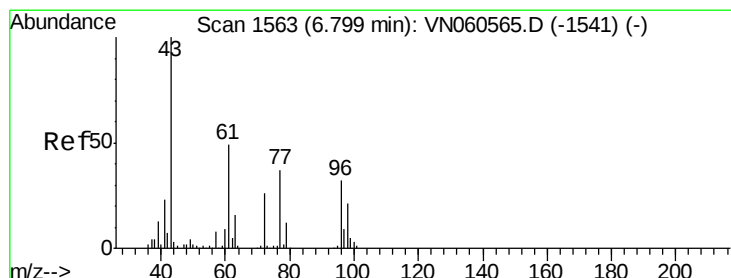
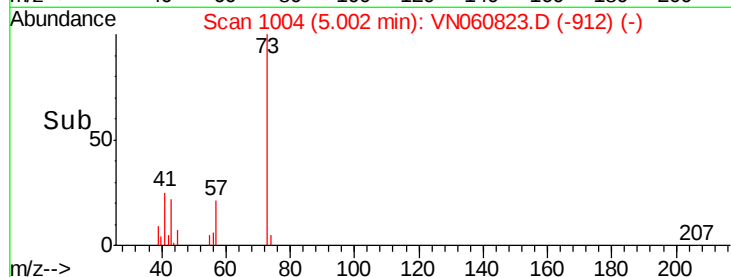
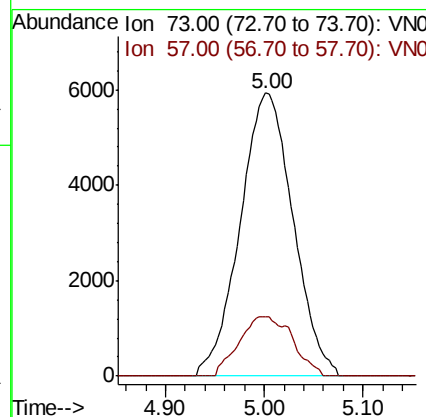
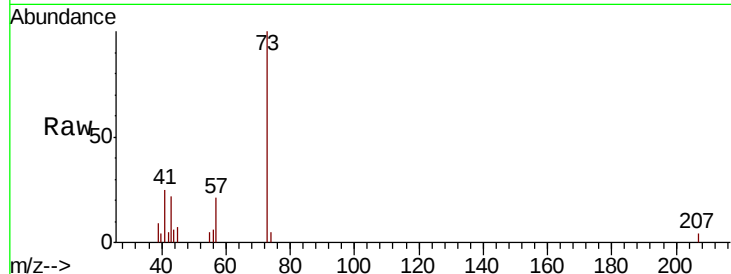




#19
Methvl tert-butvl Ether
Concen: 3.012 ug/l
RT: 5.00 min Scan# 1004
Delta R.T. -0.00 min
Lab File: VN060823.D
Acq: 2 Apr 2020 15:18

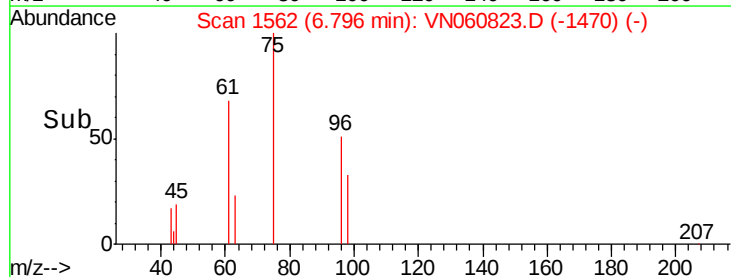
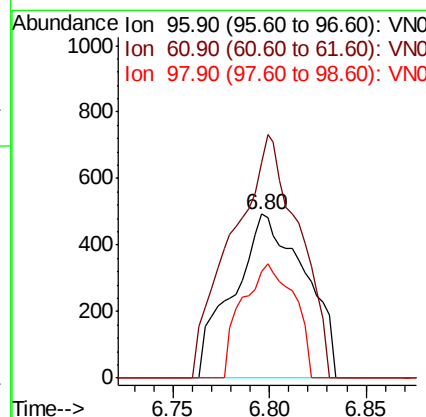
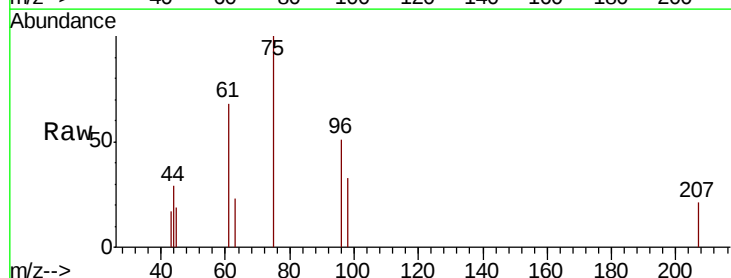
Instrument :
MSVOA_N
ClientSampleId :

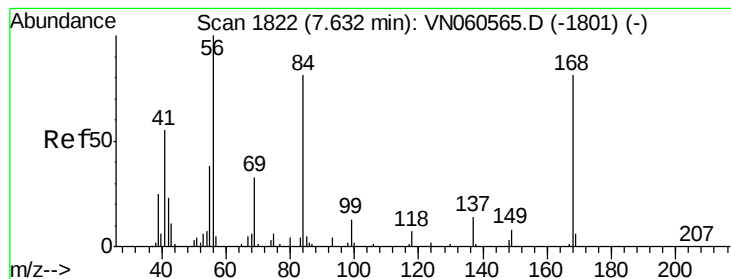
Tot Ion: 73 Resp: 22062
Ion Ratio Lower Upper
73 100
57 21.2 17.5 26.3



#27
cis-1,2-Dichloroethene
Concen: 0.491 ug/l
RT: 6.80 min Scan# 1562
Delta R.T. -0.00 min
Lab File: VN060823.D
Acq: 2 Apr 2020 15:18

Tgt Ion: 96 Resp: 1267
Ion Ratio Lower Upper
96 100
61 139.2 0.0 305.6
98 50.5 0.0 127.6





#31

Cyclohexane

Concen: 0.960 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. 0.01 min

Lab File: VN060823.D

Acq: 2 Apr 2020 15:18

Instrument :
MSVOA_N
ClientSampled :

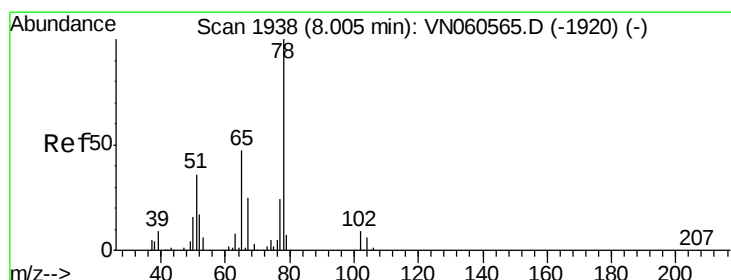
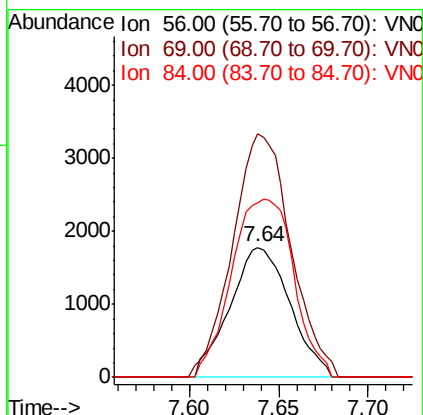
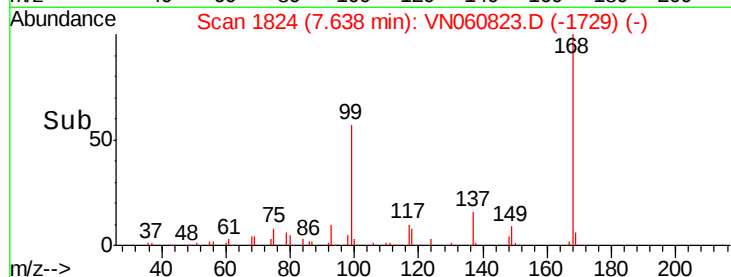
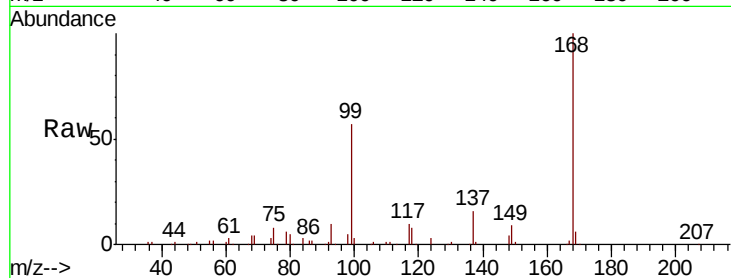
Tot Ion: 56 Resp: 4176

Ion Ratio Lower Upper

56 100

69 186.9 26.6 40.0#

84 133.8 64.3 96.5#



#33

1,2-Dichloroethane-d4

Concen: 47.788 ug/l

RT: 8.00 min Scan# 1937

Delta R.T. -0.00 min

Lab File: VN060823.D

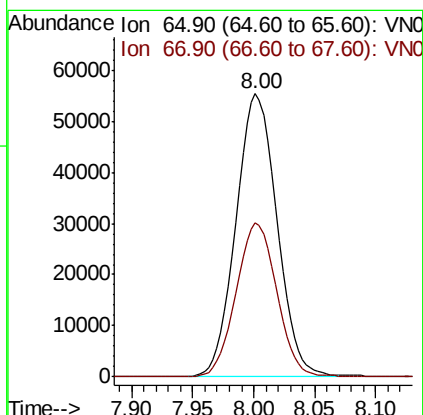
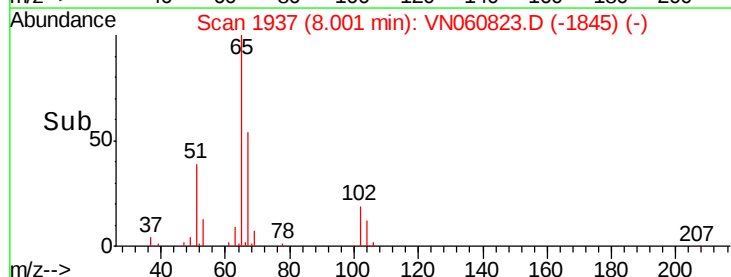
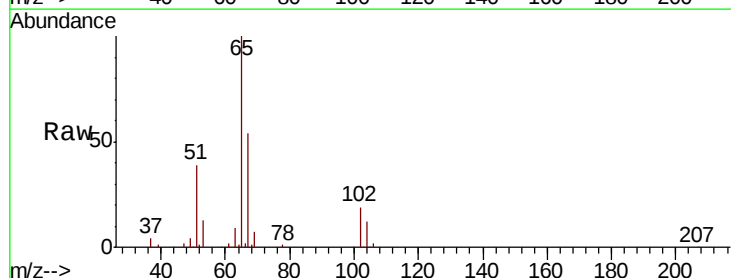
Acq: 2 Apr 2020 15:18

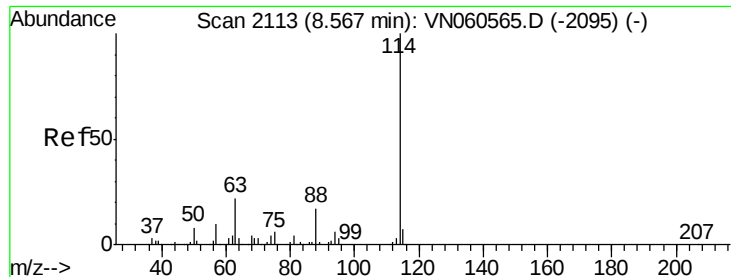
Tgt Ion: 65 Resp: 129093

Ion Ratio Lower Upper

65 100

67 53.8 0.0 107.6

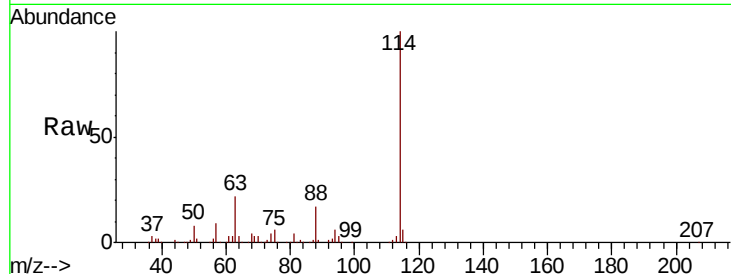




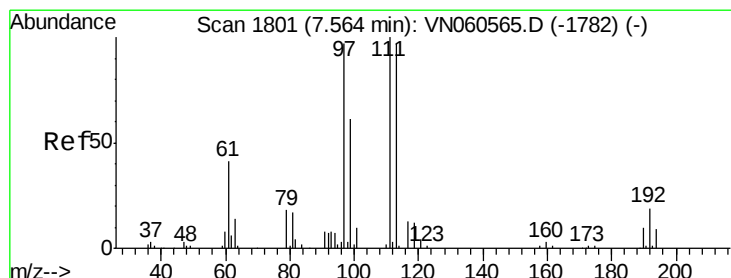
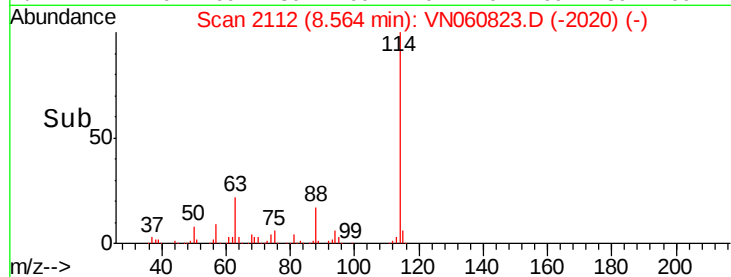
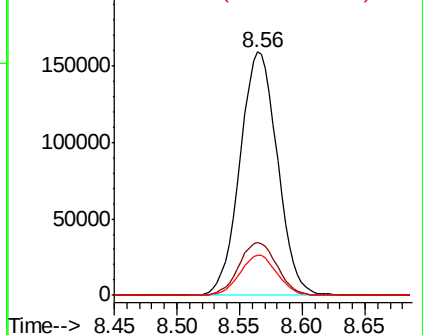
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.56 min Scan# 2112
 Delta R.T. -0.00 min
 Lab File: VN060823.D
 Acq: 2 Apr 2020 15:18

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	22.0	0.0	43.8
88	16.6	0.0	33.0

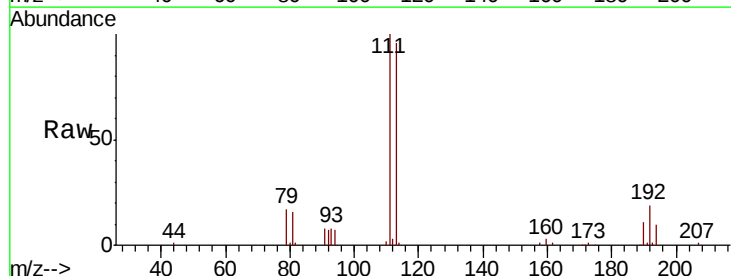


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

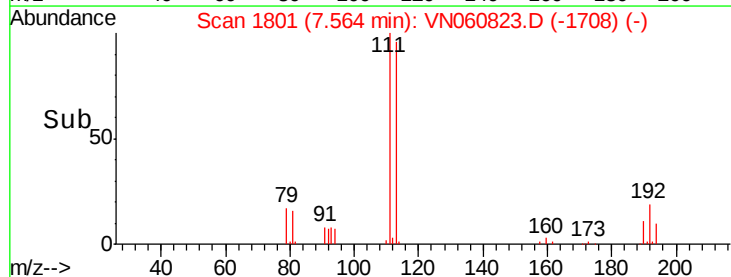
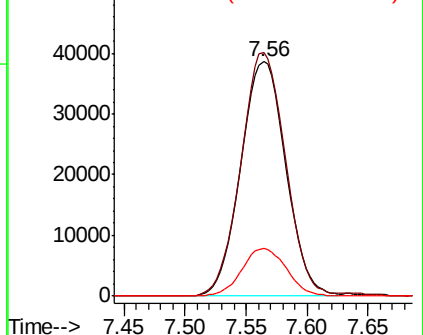


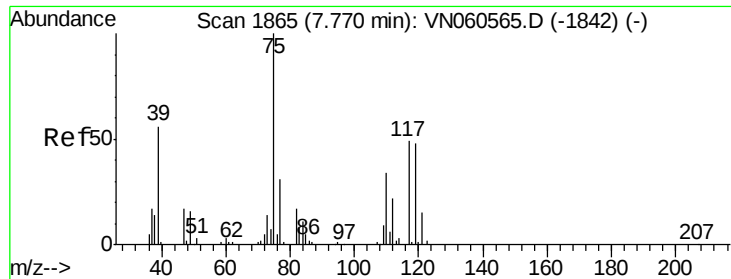
#35
 Dibromofluoromethane
 Concen: 49.513 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. -0.00 min
 Lab File: VN060823.D
 Acq: 2 Apr 2020 15:18

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.6	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

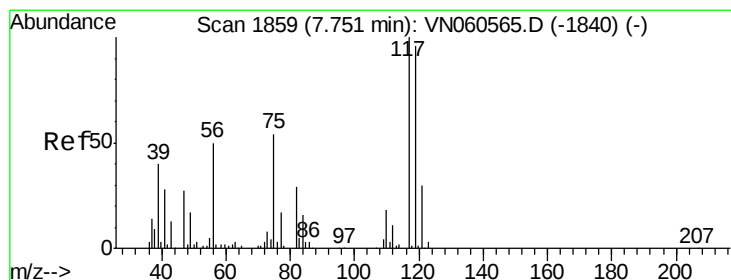
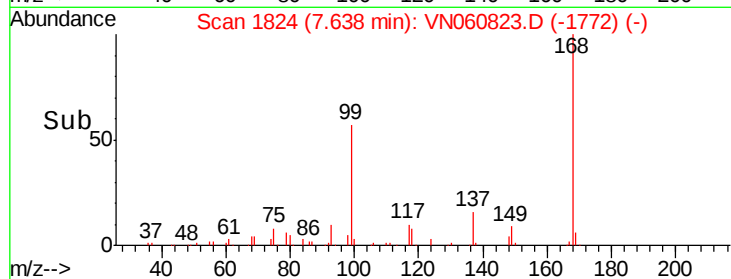
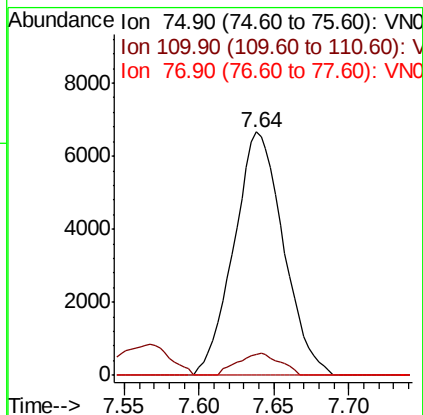
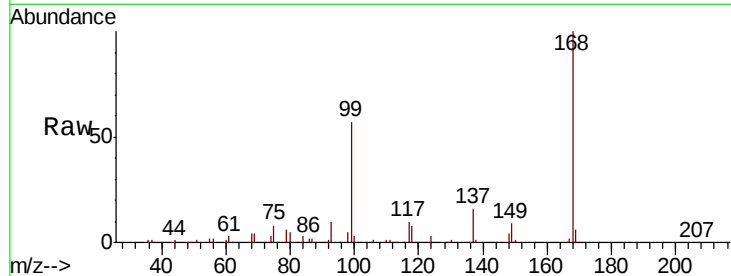




#36
 1,1-Dichloropropene
 Concen: 4.791 ug/l
 RT: 7.64 min Scan# 1824
 Delta R.T. -0.13 min
 Lab File: VN060823.D
 Acq: 2 Apr 2020 15:18

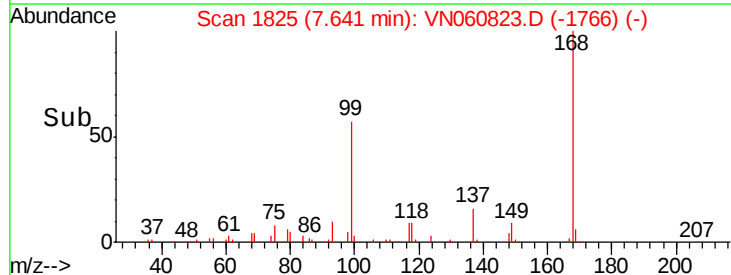
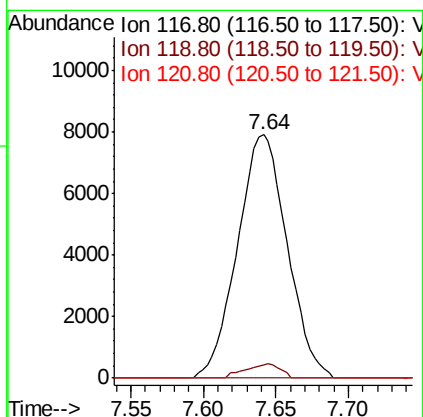
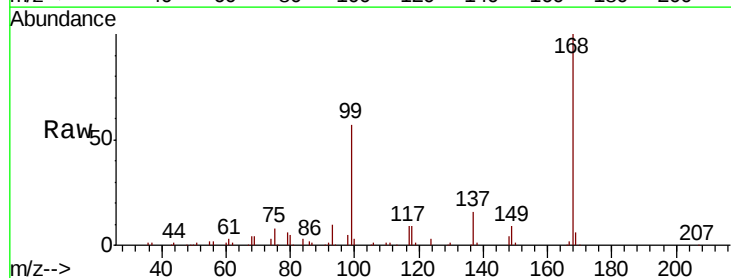
Instrument :
 MSVOA_N
 ClientSampled :

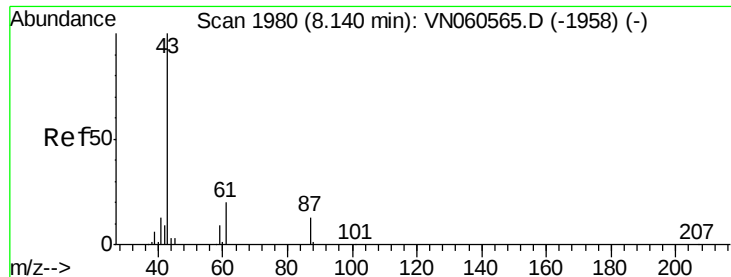
Tot Ion	75	Resp	15356
Ion Ratio	Lower	Upper	
75	100		
110	7.8	16.9	50.6#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 6.549 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.11 min
 Lab File: VN060823.D
 Acq: 2 Apr 2020 15:18

Tgt Ion	117	Resp	18812
Ion Ratio	Lower	Upper	
117	100		
119	5.4	76.2	114.2#
121	0.0	23.7	35.5#

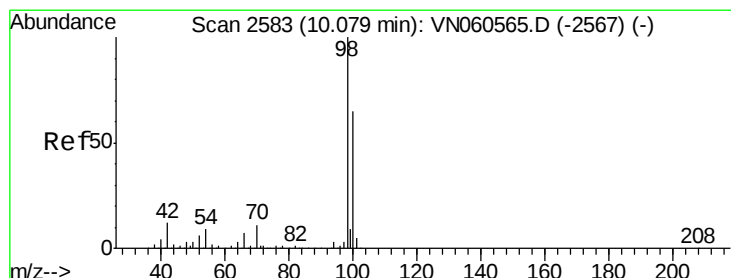
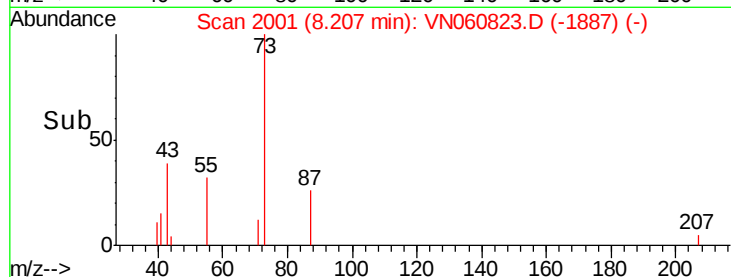
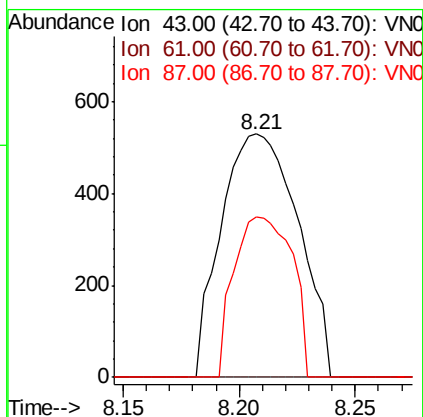
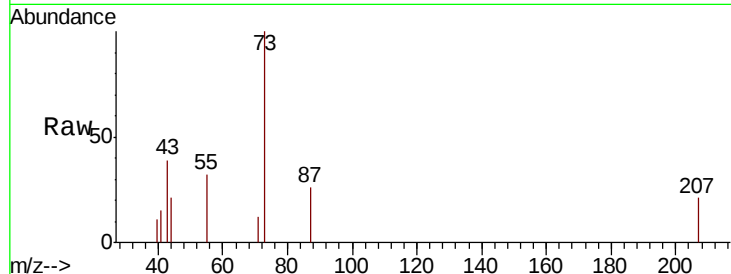




#43
Isopropyl Acetate
Concen: 0.214 ug/l
RT: 8.21 min Scan# 2001
Delta R.T. 0.07 min
Lab File: VN060823.D
Acq: 2 Apr 2020 15:18

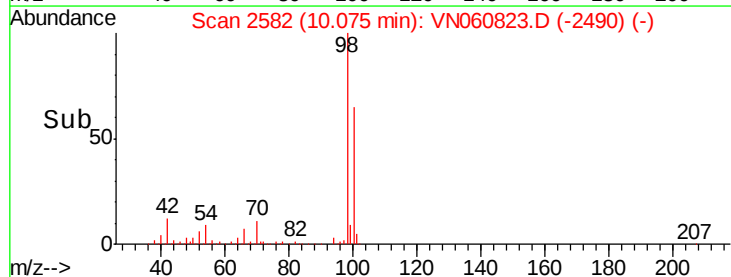
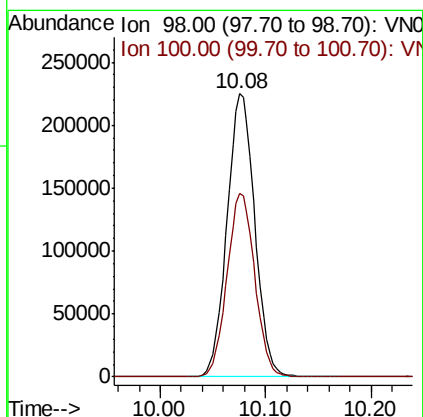
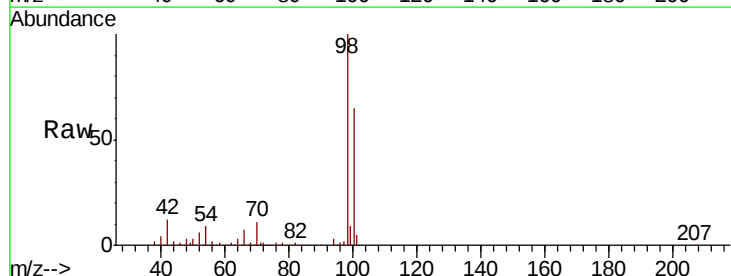
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 43 Resp: 1221
Ion Ratio Lower Upper
43 100
61 0.0 20.7 31.1#
87 49.5 9.8 14.8#



#50
Toluene-d8
Concen: 49.991 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. -0.00 min
Lab File: VN060823.D
Acq: 2 Apr 2020 15:18

Tgt Ion: 98 Resp: 408701
Ion Ratio Lower Upper
98 100
100 64.9 51.8 77.8





#51

4-Methyl-2-Pentanone

Concen: 0.591 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.11 min

Lab File: VN060823.D

Acq: 2 Apr 2020 15:18

Instrument :

MSVOA_N

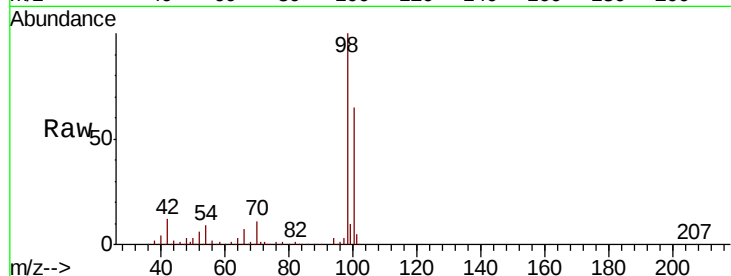
ClientSampleId :

Tot Ion: 43 Resp: 1921

Ion Ratio Lower Upper

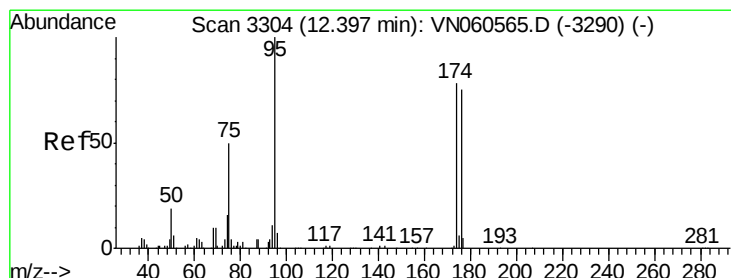
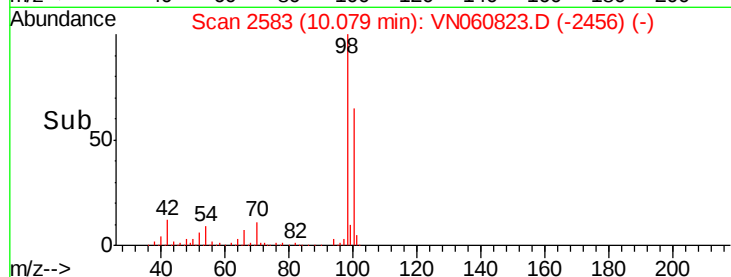
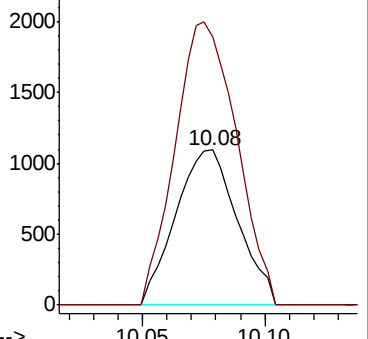
43 100

58 181.8 30.8 46.2#



Abundance Ion 43.00 (42.70 to 43.70): VN060823.D (-2529) (-)

Ion 58.00 (57.70 to 58.70): VN060823.D (-2529) (-)



#62

4-Bromofluorobenzene

Concen: 51.126 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.00 min

Lab File: VN060823.D

Acq: 2 Apr 2020 15:18

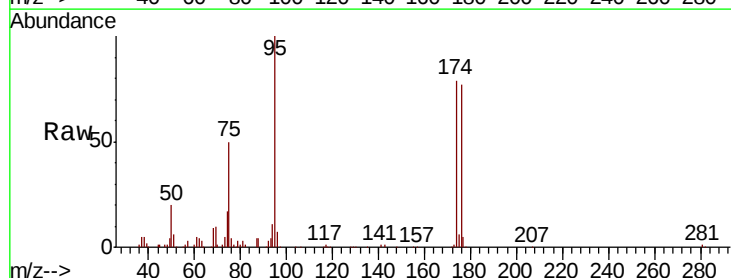
Tgt Ion: 95 Resp: 153184

Ion Ratio Lower Upper

95 100

174 78.1 0.0 157.6

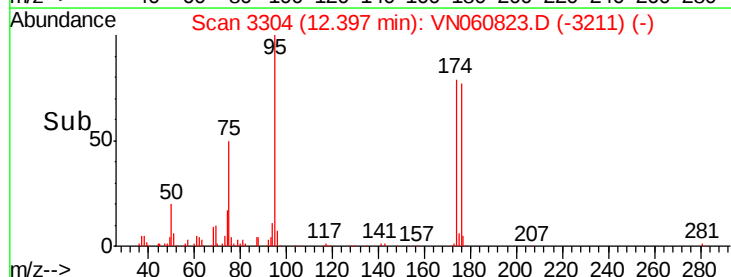
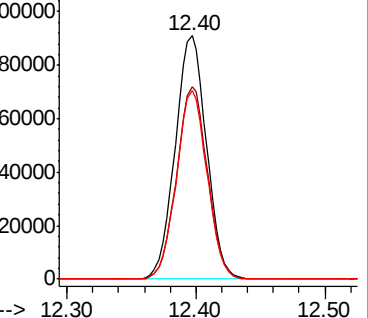
176 76.0 0.0 150.6

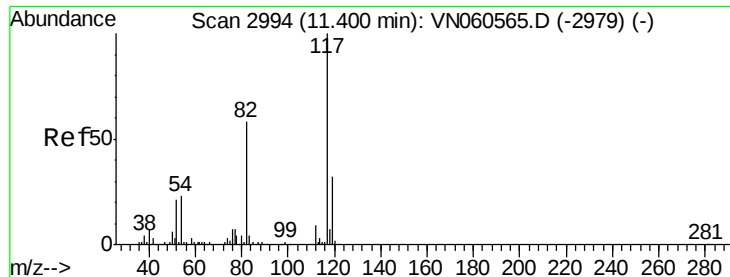


Abundance Ion 94.90 (94.60 to 95.60): VN060823.D (-3211) (-)

Ion 173.80 (173.50 to 174.50): VN060823.D (-3211) (-)

Ion 175.80 (175.50 to 176.50): VN060823.D (-3211) (-)

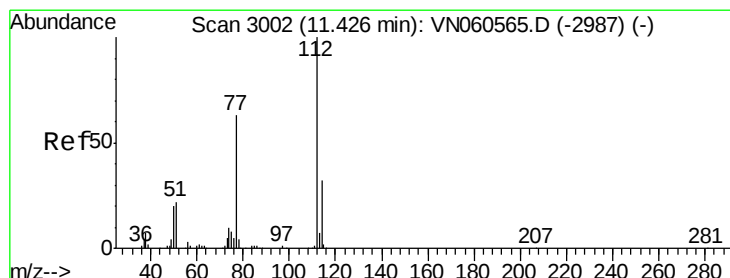
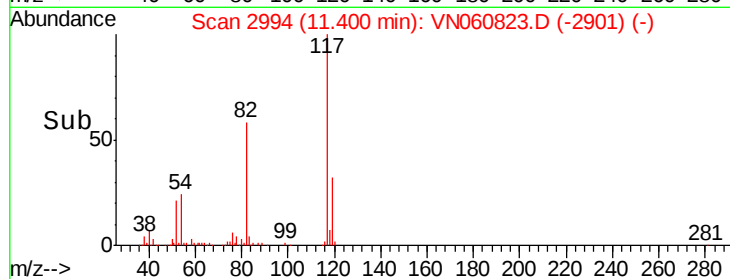
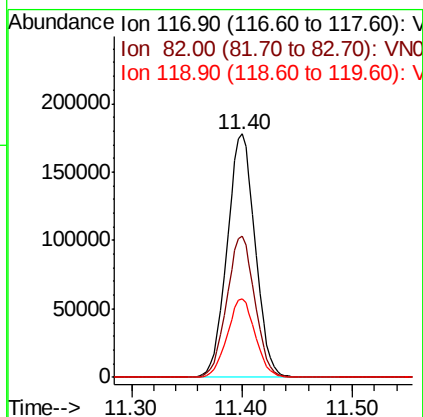
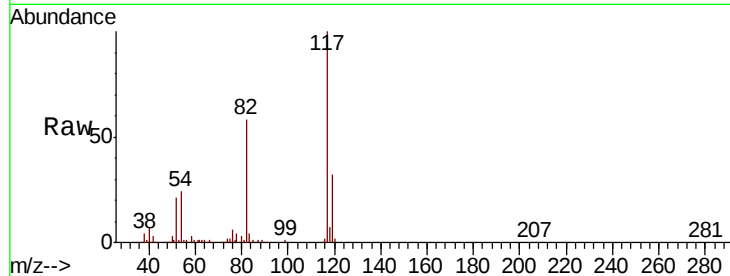




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. -0.00 min
Lab File: VN060823.D
Acq: 2 Apr 2020 15:18

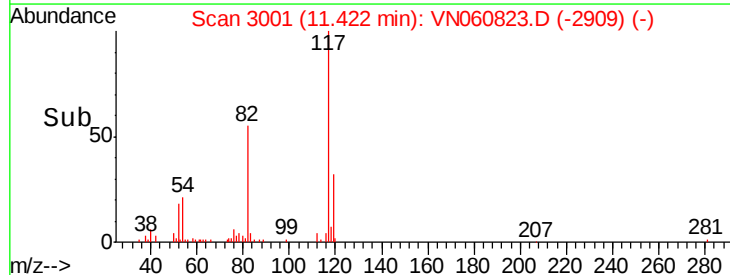
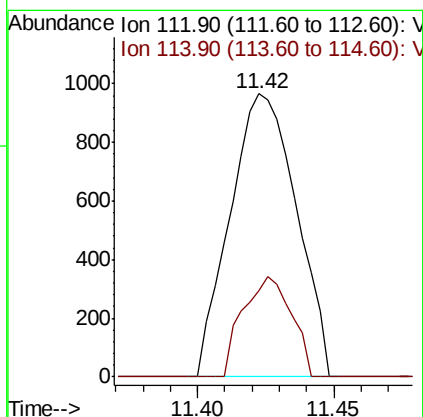
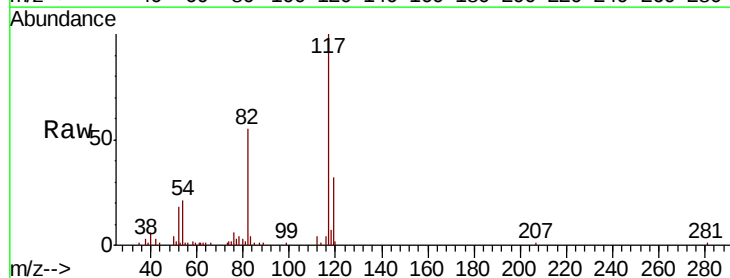
Instrument :
MSVOA_N
ClientSampleId :

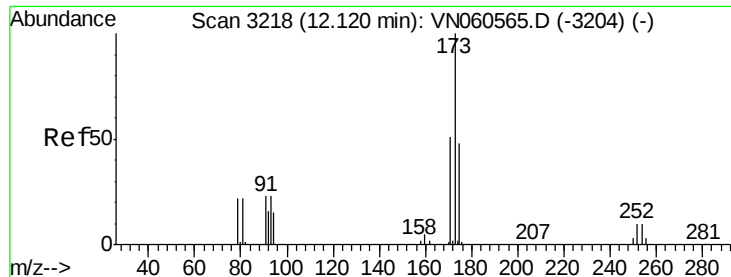
Tot Ion:117 Resp: 312604
Ion Ratio Lower Upper
117 100
82 58.2 46.7 70.1
119 32.3 25.5 38.3



#65
Chlorobenzene
Concen: 0.262 ug/l
RT: 11.42 min Scan# 3001
Delta R.T. -0.00 min
Lab File: VN060823.D
Acq: 2 Apr 2020 15:18

Tgt Ion:112 Resp: 1626
Ion Ratio Lower Upper
112 100
114 30.6 25.8 38.6

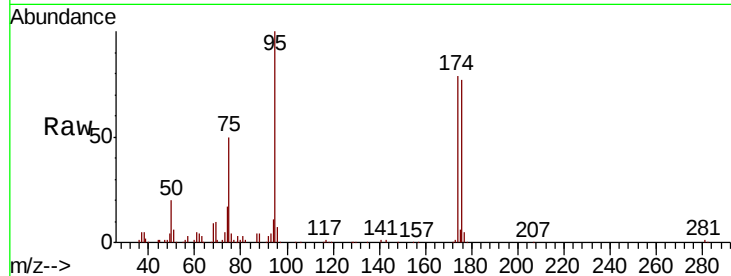




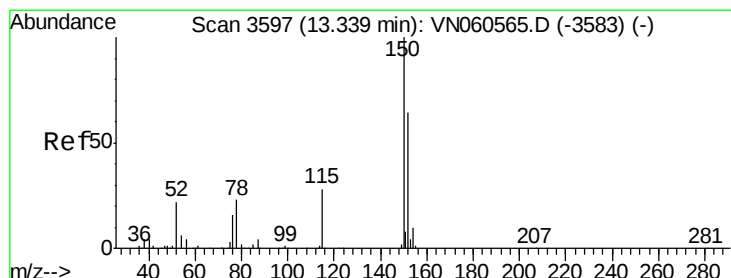
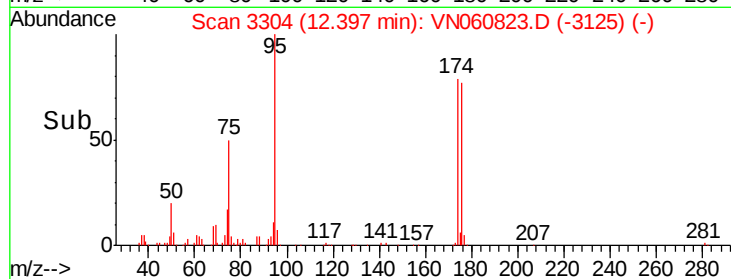
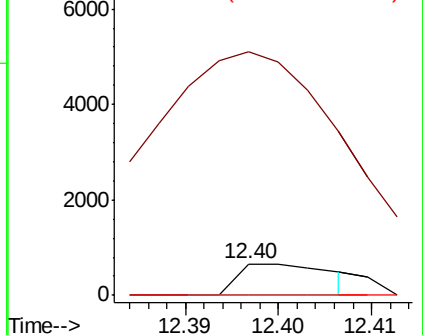
#71
Bromoform
Concen: 1.918 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.28 min
Lab File: VN060823.D
Acq: 2 Apr 2020 15:18

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:173 Resp: 459
Ion Ratio Lower Upper
173 100
175 1604.8 24.1 72.4#
254 0.0 0.0 0.0

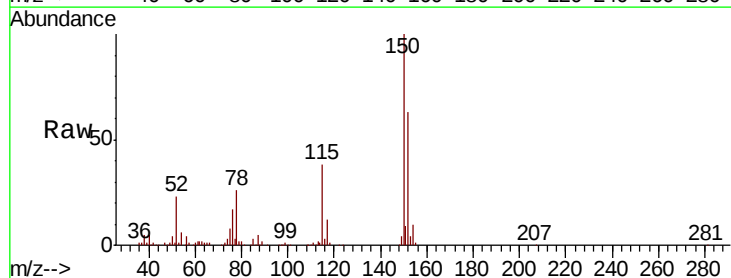


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

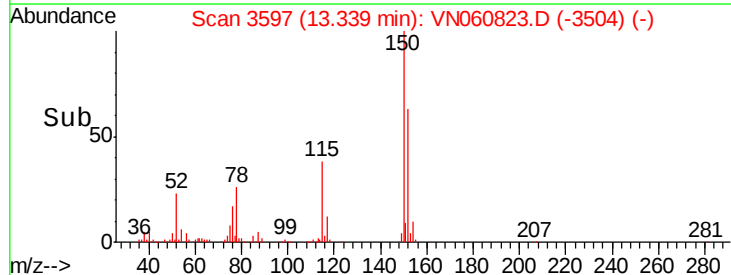
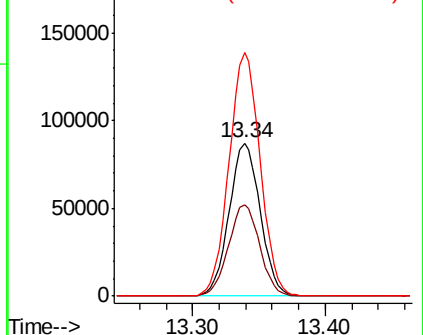


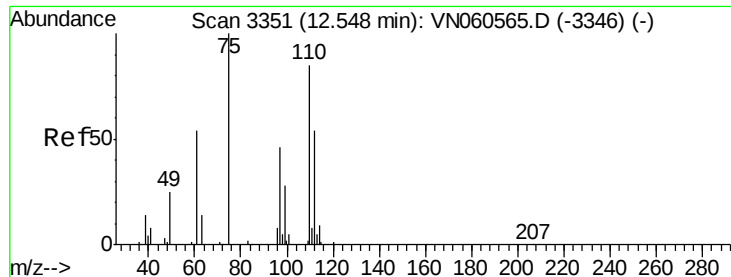
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. -0.00 min
Lab File: VN060823.D
Acq: 2 Apr 2020 15:18

Tgt Ion:152 Resp: 141855
Ion Ratio Lower Upper
152 100
115 59.8 30.2 90.6
150 159.2 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: 25.287 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060823.D

Acq: 2 Apr 2020 15:18

Instrument :

MSVOA_N

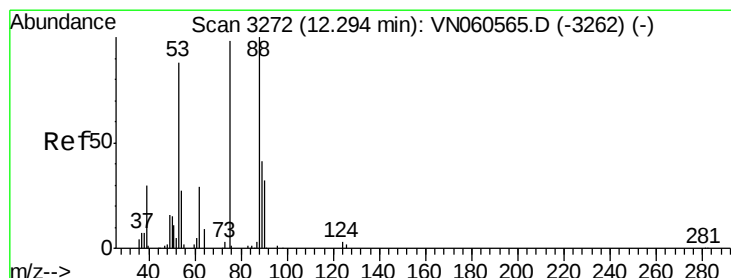
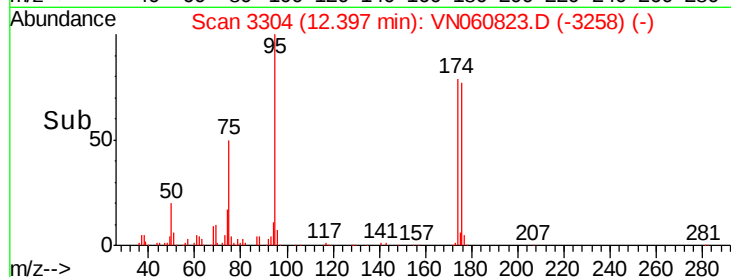
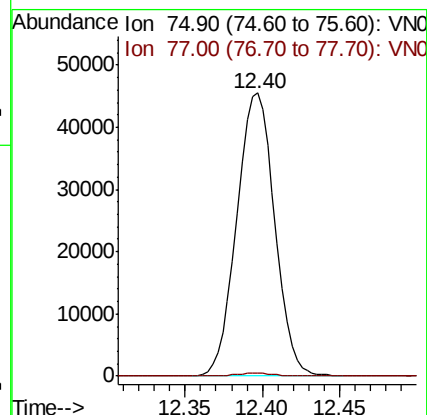
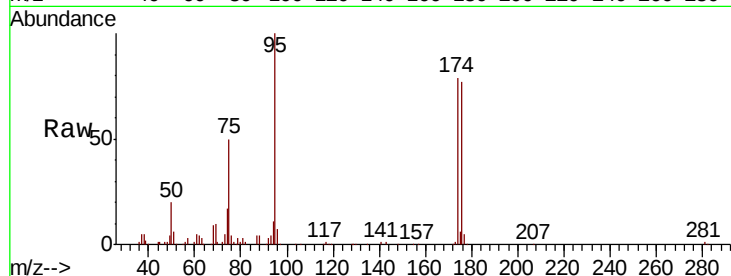
ClientSampled :

Tot Ion: 75 Resp: 77401

Ion Ratio Lower Upper

75 100

77 0.9 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 64.944 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060823.D

Acq: 2 Apr 2020 15:18

Tgt Ion: 75 Resp: 77401

Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.4#

89 0.0 34.8 52.2#

