

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN040220\
 Data File : VN060817.D
 Acq On : 2 Apr 2020 12:45
 Operator : JC/MD
 Sample : L2018-05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 03 07:41:27 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	195218	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	322494	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	296713	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	126560	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	124783	46.56	ug/l	0.00
Spiked Amount			Recovery	=	93.12%	
35) Dibromofluoromethane	7.56	113	94794	48.61	ug/l	0.00
Spiked Amount			Recovery	=	97.22%	
50) Toluene-d8	10.08	98	392949	49.33	ug/l	0.00
Spiked Amount			Recovery	=	98.66%	
62) 4-Bromofluorobenzene	12.40	95	143153	49.04	ug/l	0.00
Spiked Amount			Recovery	=	98.08%	

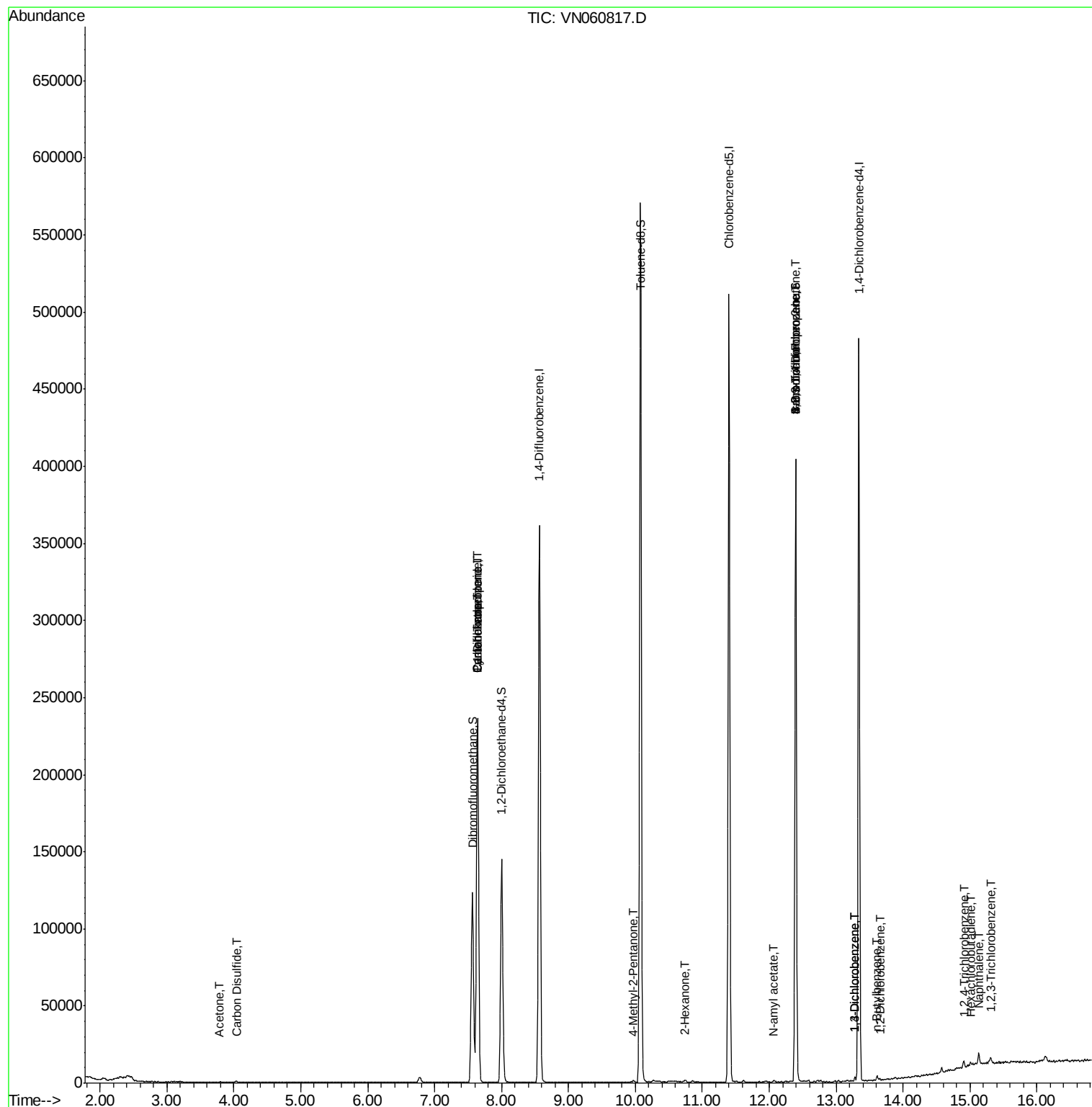
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	353	0.372	ug/l #	43
17) Carbon Disulfide	4.03	76	1381	0.215	ug/l #	75
31) Cyclohexane	7.64	56	4160	0.964	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	15309	4.902	ug/l #	49
38) Carbon Tetrachloride	7.64	117	18348	6.556	ug/l #	16
51) 4-Methyl-2-Pentanone	9.97	43	1070	0.338	ug/l #	63
59) 2-Hexanone	10.74	43	1150	0.504	ug/l	81
71) Bromoform	12.39	173	350	1.872	ug/l #	1
74) N-amyl acetate	12.07	43	954	0.217	ug/l #	49
76) 1,2,3-Trichloropropane	12.40	75	71834	26.304	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	71834	67.557	ug/l #	13
87) 1,3-Dichlorobenzene	13.28	146	956	0.237	ug/l	85
88) 1,4-Dichlorobenzene	13.28	146	956	0.236	ug/l	87
89) n-Butylbenzene	13.61	91	1793	0.246	ug/l	95
91) 1,2-Dichlorobenzene	13.65	146	839	0.217	ug/l #	77
92) 1,2-Dibromo-3-Chloropropan	14.27	75	97	Below Cal	#	3
93) 1,2,4-Trichlorobenzene	14.91	180	1411	0.595	ug/l	94
94) Hexachlorobutadiene	15.01	225	541	0.466	ug/l	90
95) Naphthalene	15.13	128	5920	0.830	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	1862	0.798	ug/l	92

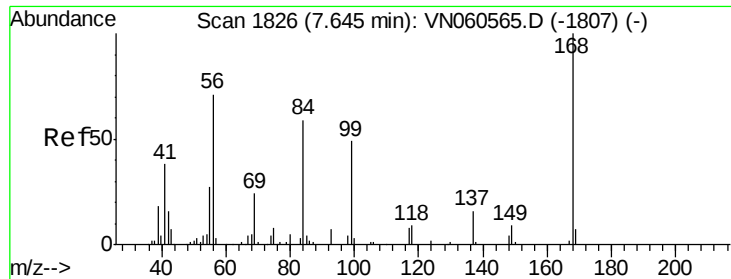
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN060817.D

Acq: 2 Apr 2020 12:45

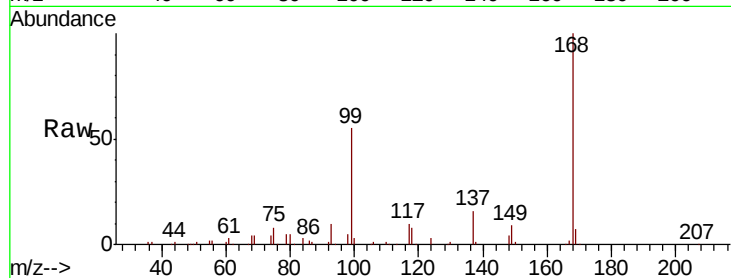
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 195218

Ion Ratio Lower Upper

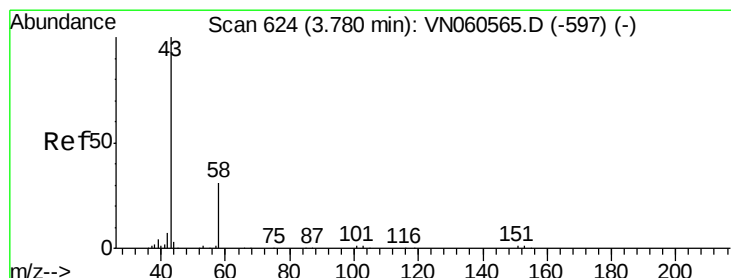
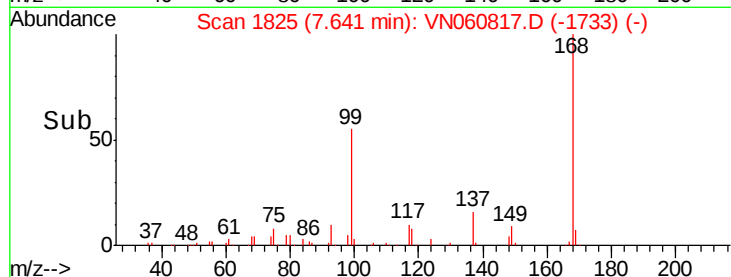
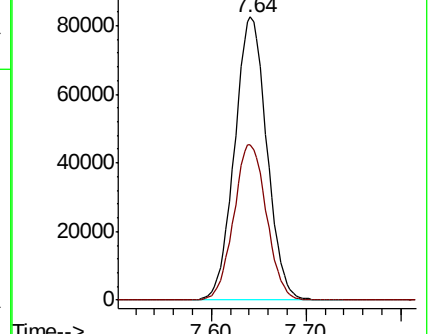
168 100

99 54.9 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 0.372 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.00 min

Lab File: VN060817.D

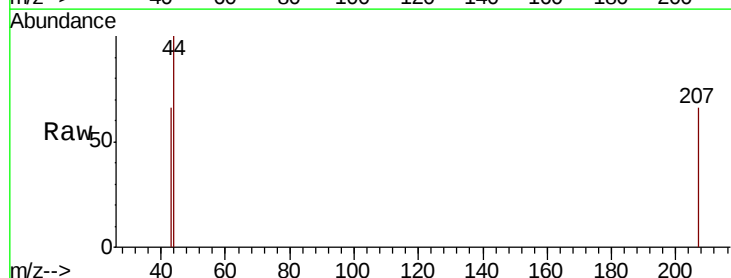
Acq: 2 Apr 2020 12:45

Tgt Ion: 43 Resp: 353

Ion Ratio Lower Upper

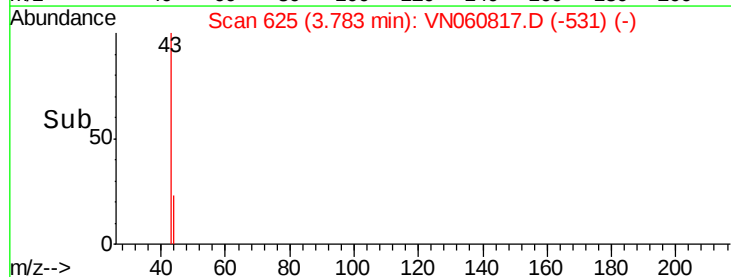
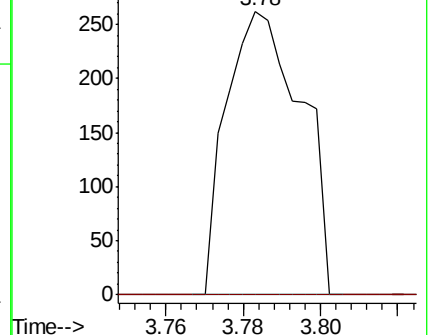
43 100

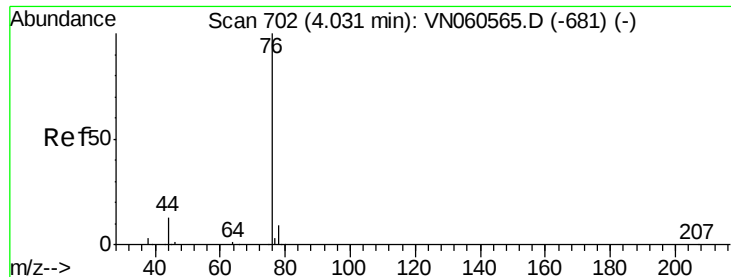
58 0.0 25.1 37.7#



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

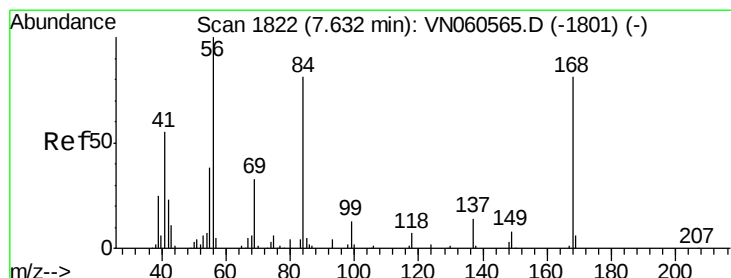
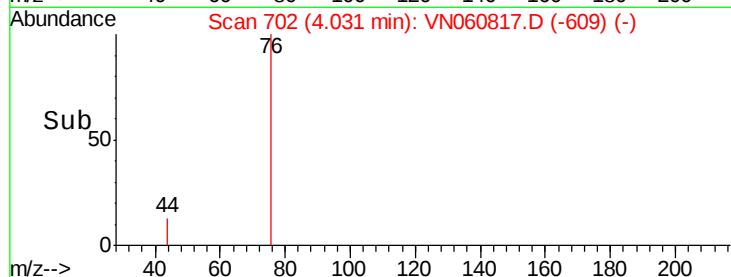
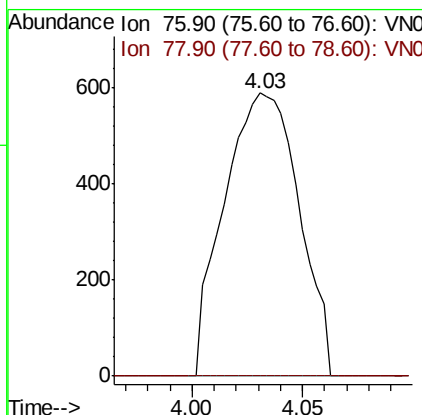
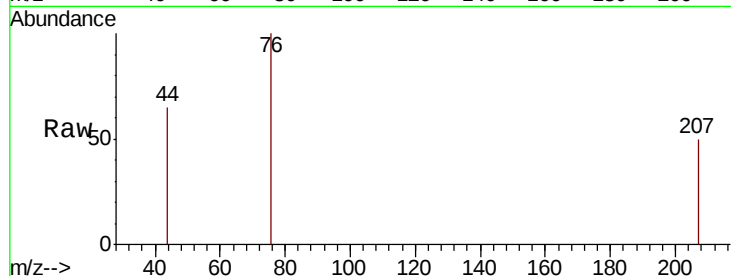




#17
Carbon Disulfide
Concen: 0.215 ug/l
RT: 4.03 min Scan# 702
Delta R.T. 0.00 min
Lab File: VN060817.D
Acq: 2 Apr 2020 12:45

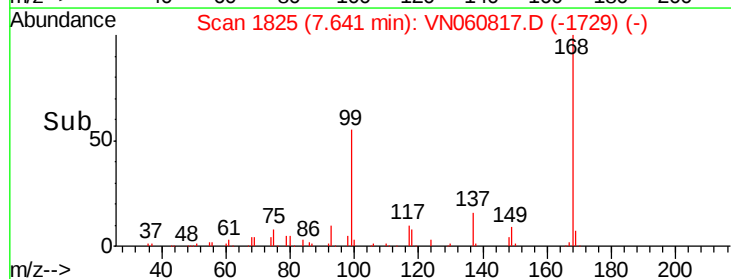
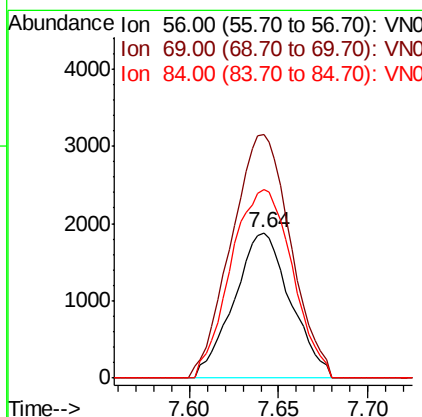
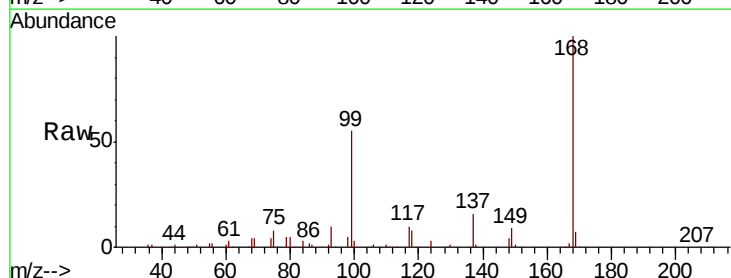
Instrument :
MSVOA_N
ClientSampleId :

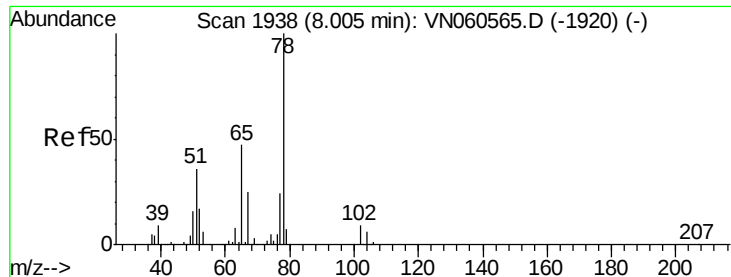
Tot Ion: 76 Resp: 1381
Ion Ratio Lower Upper
76 100
78 0.0 7.2 10.8#



#31
Cyclohexane
Concen: 0.964 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. 0.01 min
Lab File: VN060817.D
Acq: 2 Apr 2020 12:45

Tgt Ion: 56 Resp: 4160
Ion Ratio Lower Upper
56 100
69 167.8 26.6 40.0#
84 129.9 64.3 96.5#

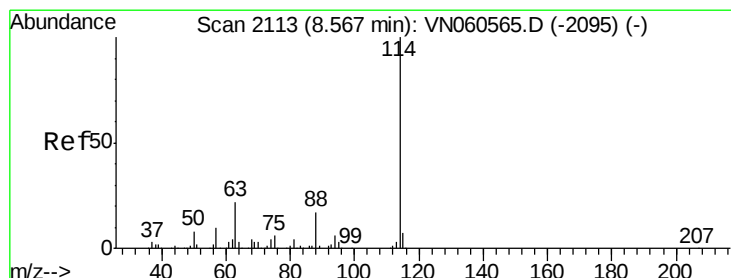
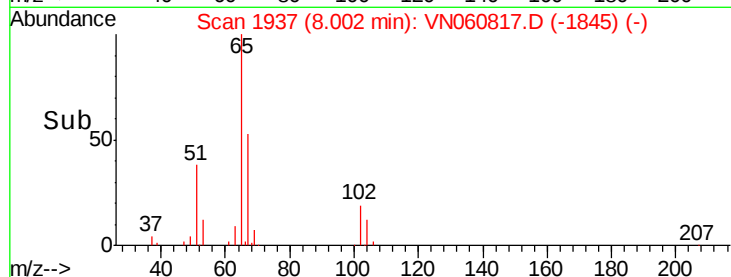
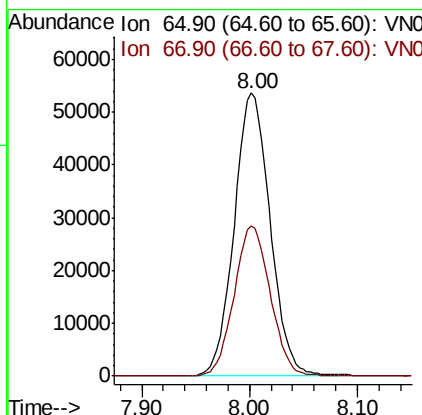
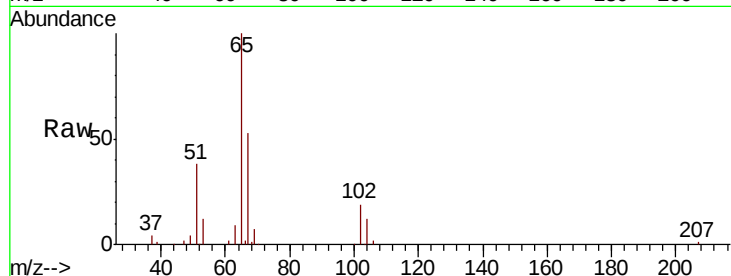




#33
 1,2-Dichloroethane-d4
 Concen: 46.563 ug/l
 RT: 8.00 min Scan# 1937
 Delta R.T. -0.00 min
 Lab File: VN060817.D
 Acq: 2 Apr 2020 12:45

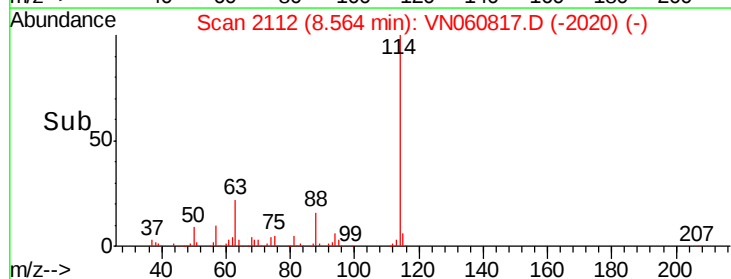
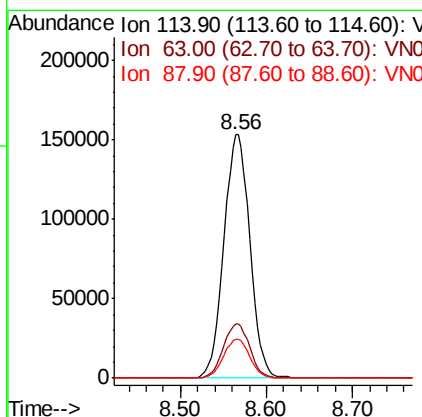
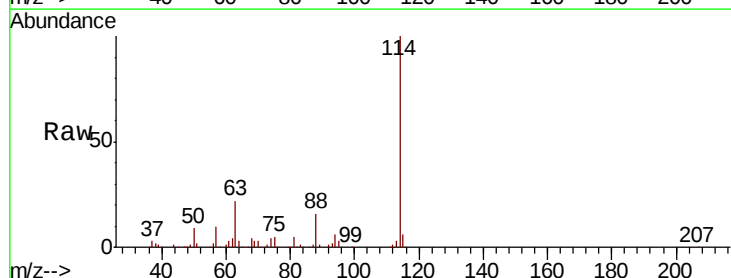
Instrument :
 MSVOA_N
 ClientSampleId :

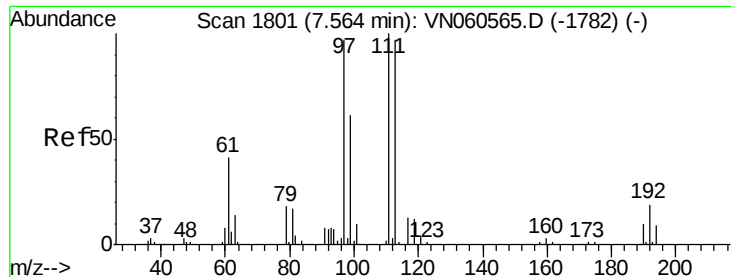
Tot Ion: 65 Resp: 124783
 Ion Ratio Lower Upper
 65 100
 67 53.3 0.0 107.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.56 min Scan# 2112
 Delta R.T. -0.00 min
 Lab File: VN060817.D
 Acq: 2 Apr 2020 12:45

Tgt Ion: 114 Resp: 322494
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 43.8
 88 16.1 0.0 33.0





#35

Dibromofluoromethane

Concen: 48.612 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. 0.00 min

Lab File: VN060817.D

Acq: 2 Apr 2020 12:45

Instrument :
MSVOA_N
ClientSampled :

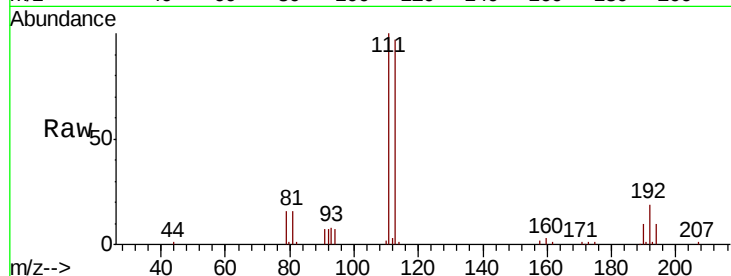
Tot Ion:113 Resp: 94794

Ion Ratio Lower Upper

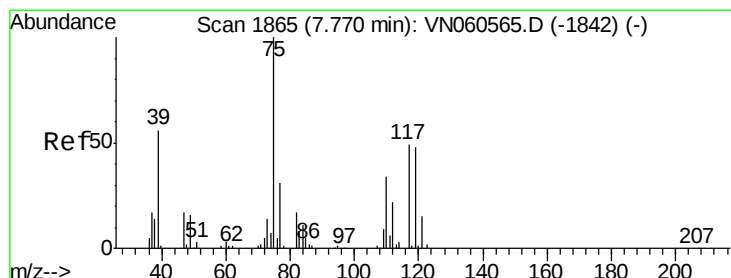
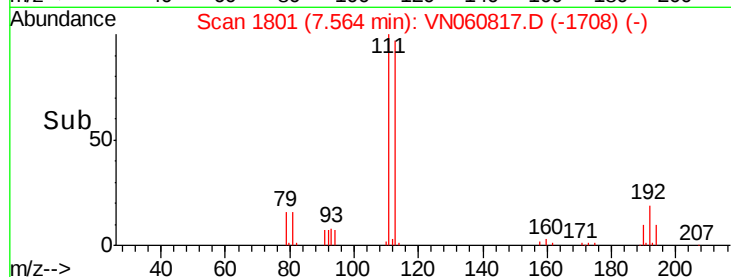
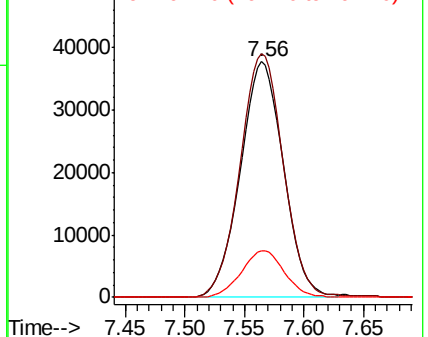
113 100

111 104.2 82.9 124.3

192 19.6 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: 4.902 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN060817.D

Acq: 2 Apr 2020 12:45

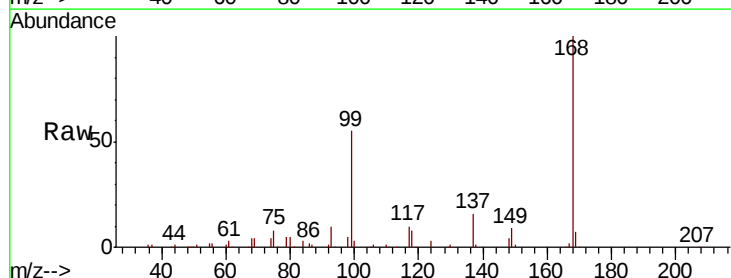
Tgt Ion: 75 Resp: 15309

Ion Ratio Lower Upper

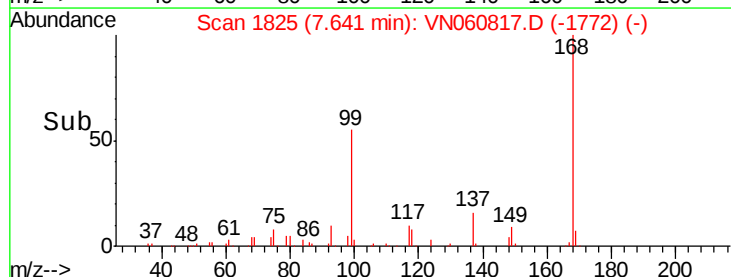
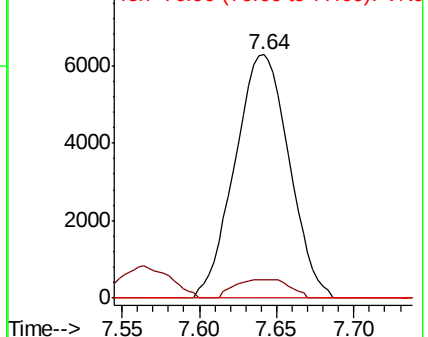
75 100

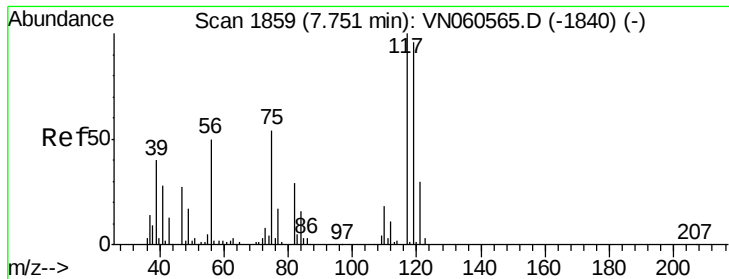
110 7.7 16.9 50.6#

77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): V

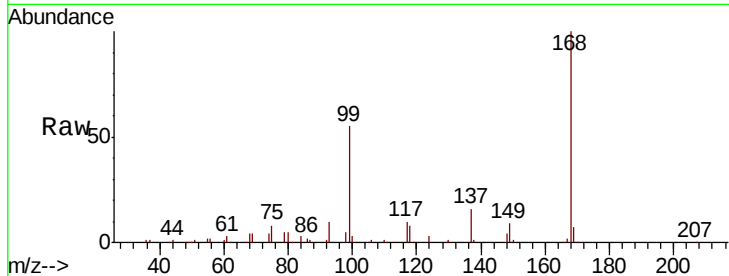




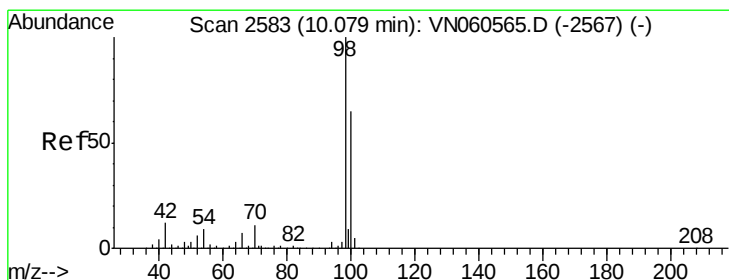
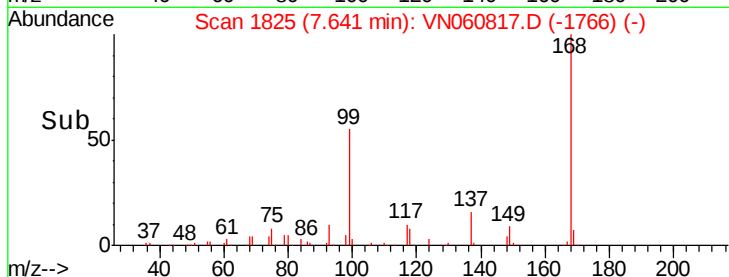
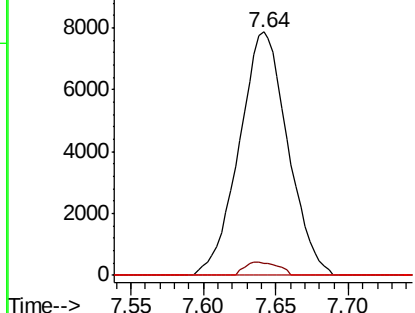
#38
Carbon Tetrachloride
Concen: 6.556 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.11 min
Lab File: VN060817.D
Acq: 2 Apr 2020 12:45

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 18348
Ion Ratio Lower Upper
117 100
119 5.1 76.2 114.2#
121 0.0 23.7 35.5#

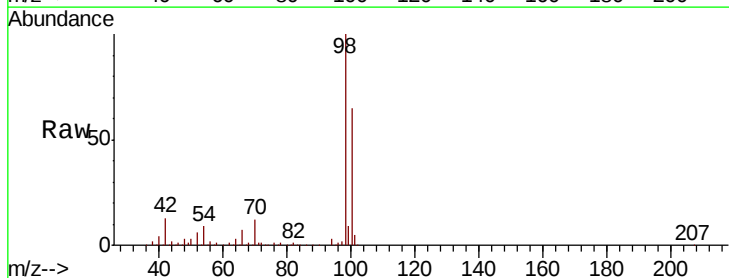


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

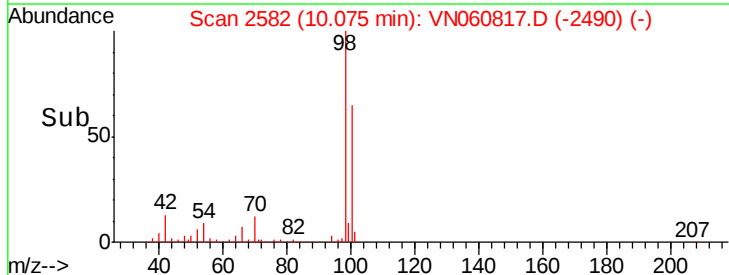
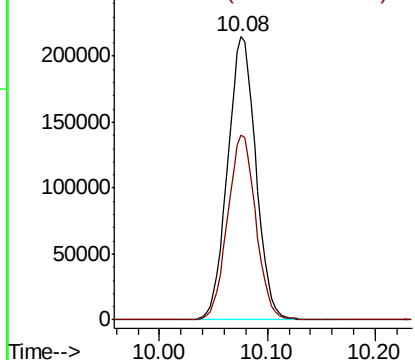


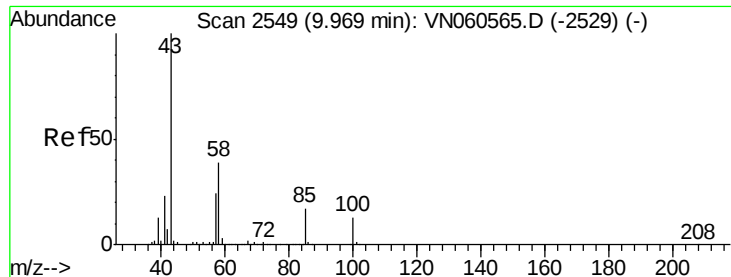
#50
Toluene-d8
Concen: 49.334 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. -0.00 min
Lab File: VN060817.D
Acq: 2 Apr 2020 12:45

Tgt Ion: 98 Resp: 392949
Ion Ratio Lower Upper
98 100
100 65.1 51.8 77.8



Abundance Ion 98.00 (97.70 to 98.70): VN
Ion 100.00 (99.70 to 100.70): VN

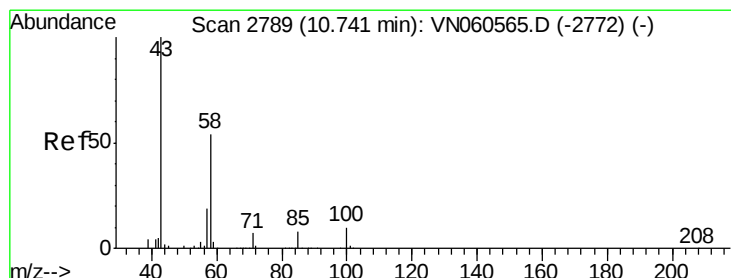
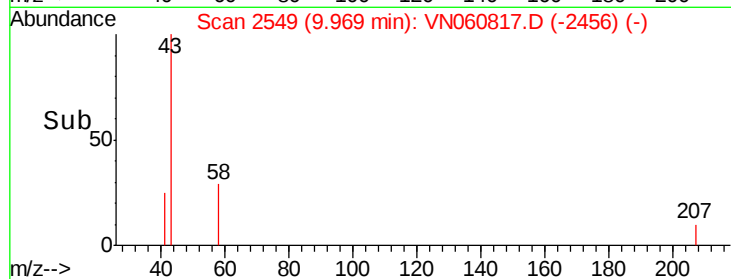
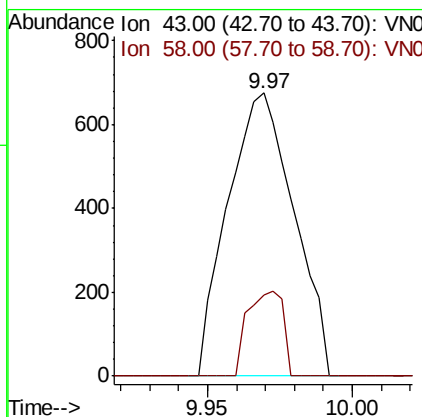
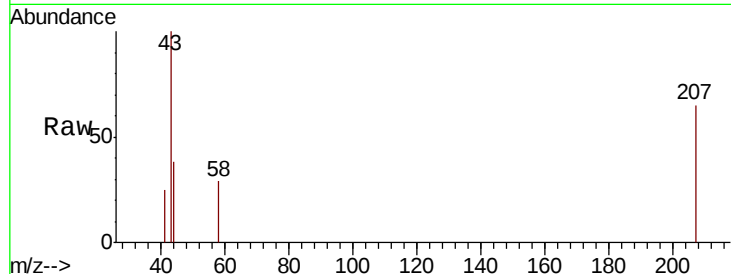




#51
 4-Methyl-2-Pentanone
 Concen: 0.338 ug/l
 RT: 9.97 min Scan# 2549
 Delta R.T. 0.00 min
 Lab File: VN060817.D
 Acq: 2 Apr 2020 12:45

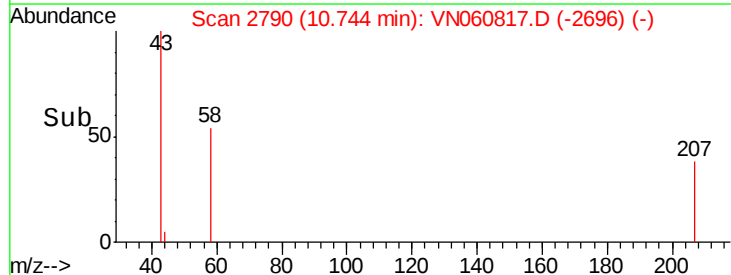
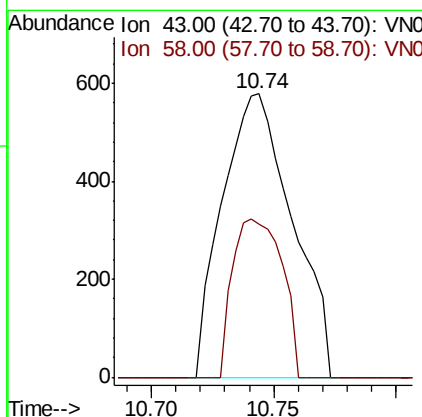
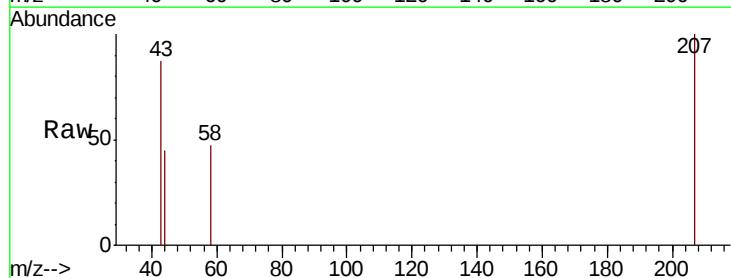
Instrument :
 MSVOA_N
 ClientSampled :

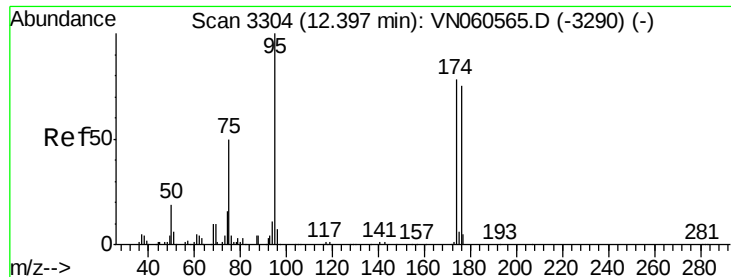
Tot Ion: 43 Resp: 1070
 Ion Ratio Lower Upper
 43 100
 58 16.3 30.8 46.2#



#59
 2-Hexanone
 Concen: 0.504 ug/l
 RT: 10.74 min Scan# 2790
 Delta R.T. 0.00 min
 Lab File: VN060817.D
 Acq: 2 Apr 2020 12:45

Tgt Ion: 43 Resp: 1150
 Ion Ratio Lower Upper
 43 100
 58 39.6 26.7 80.1





#62

4-Bromofluorobenzene

Concen: 49.040 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060817.D

Acq: 2 Apr 2020 12:45

Instrument :

MSVOA_N

ClientSampled :

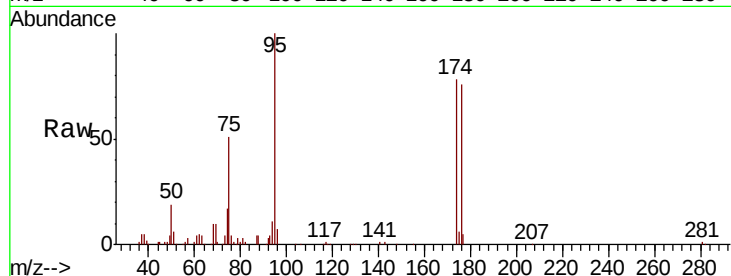
Tot Ion: 95 Resp: 143153

Ion Ratio Lower Upper

95 100

174 77.4 0.0 157.6

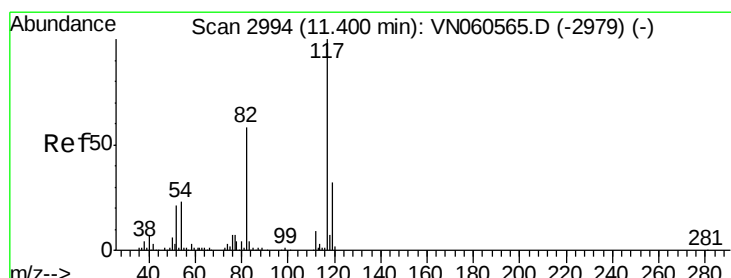
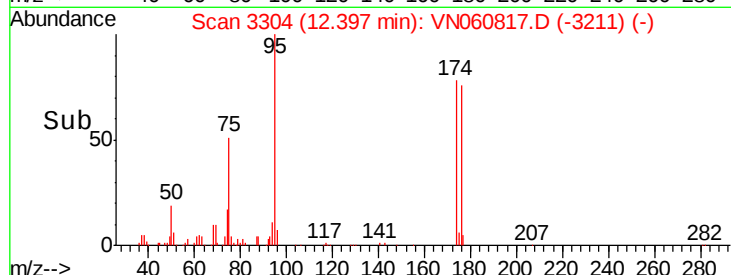
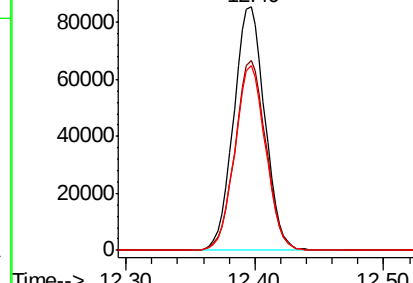
176 75.1 0.0 150.6



Abundance Ion 94.90 (94.60 to 95.60): VN060817.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN060817.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN060817.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060817.D

Acq: 2 Apr 2020 12:45

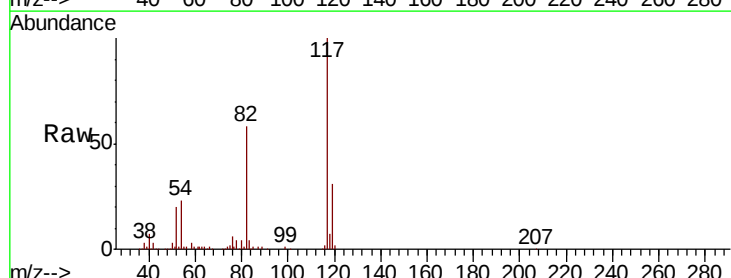
Tgt Ion: 117 Resp: 296713

Ion Ratio Lower Upper

117 100

82 57.8 46.7 70.1

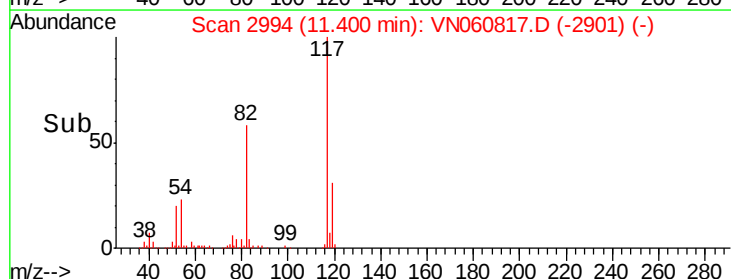
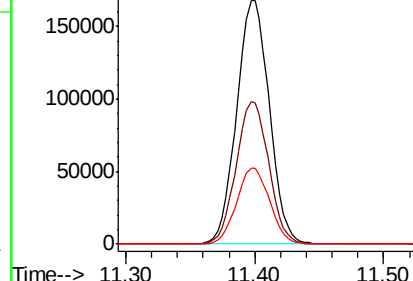
119 31.1 25.5 38.3

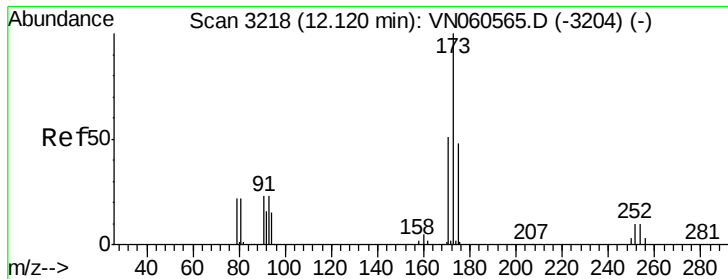


Abundance Ion 116.90 (116.60 to 117.60): VN060817.D (-2979) (-)

Ion 82.00 (81.70 to 82.70): VN060817.D (-2979) (-)

Ion 118.90 (118.60 to 119.60): VN060817.D (-2979) (-)





#71

Bromoform

Concen: 1.872 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.27 min

Lab File: VN060817.D

Acq: 2 Apr 2020 12:45

Instrument :

MSVOA_N

ClientSampleId :

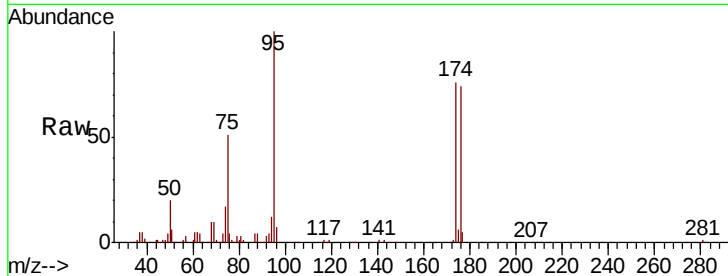
Tot Ion:173 Resp: 350

Ion Ratio Lower Upper

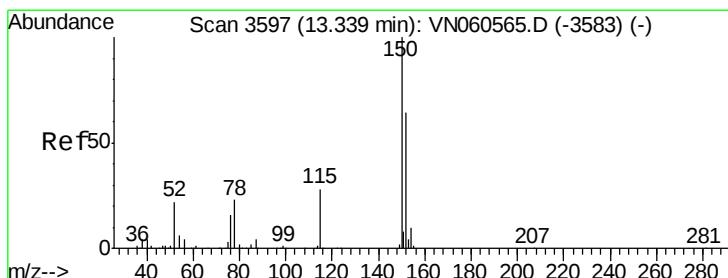
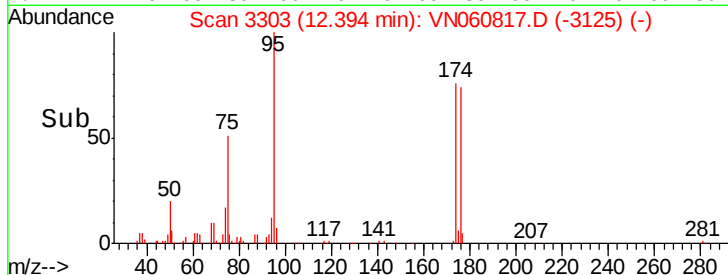
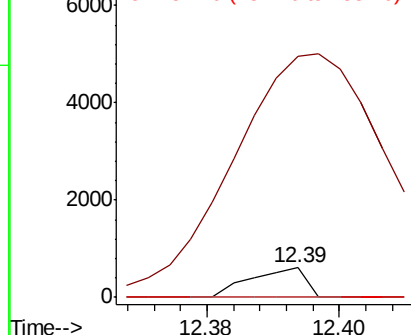
173 100

175 2057.1 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: VN060817.D

Acq: 2 Apr 2020 12:45

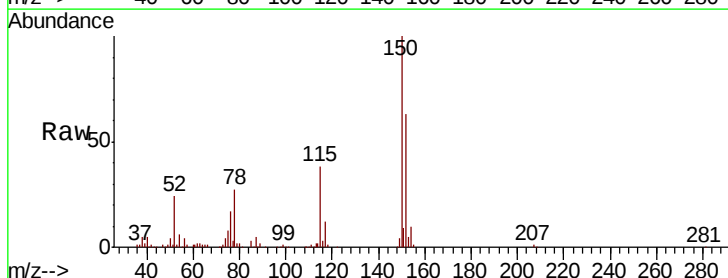
Tgt Ion:152 Resp: 126560

Ion Ratio Lower Upper

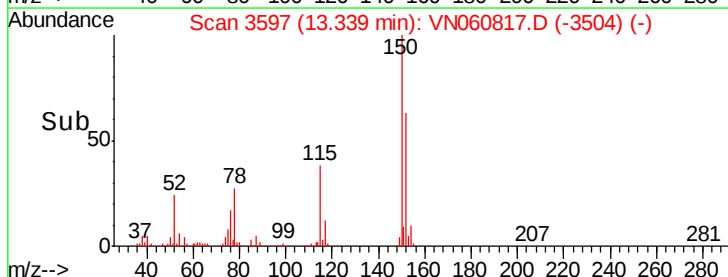
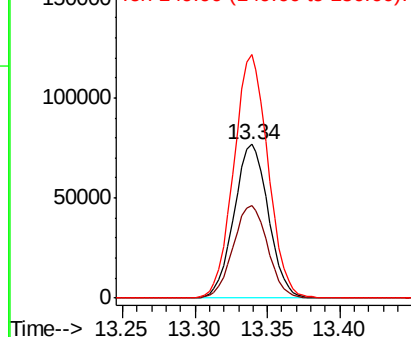
152 100

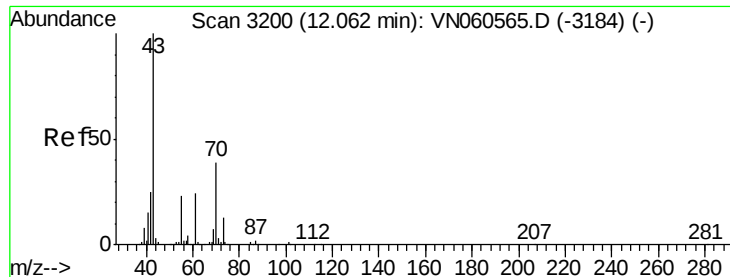
115 60.3 30.2 90.6

150 157.6 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-amvl acetate

Concen: 0.217 ug/l

RT: 12.07 min Scan# 3201

Delta R.T. 0.00 min

Lab File: VN060817.D

Acq: 2 Apr 2020 12:45

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 954

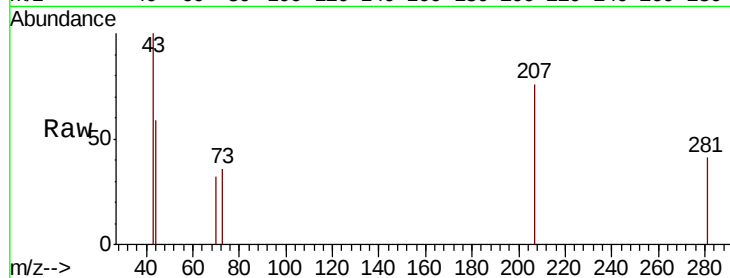
Ion Ratio Lower Upper

43 100

70 6.2 31.1 46.7#

55 0.0 18.6 27.8#

61 0.0 18.9 28.3#

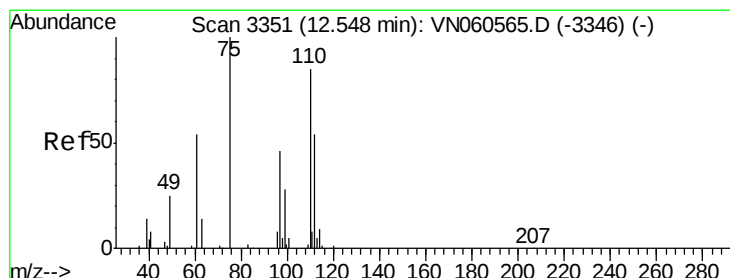
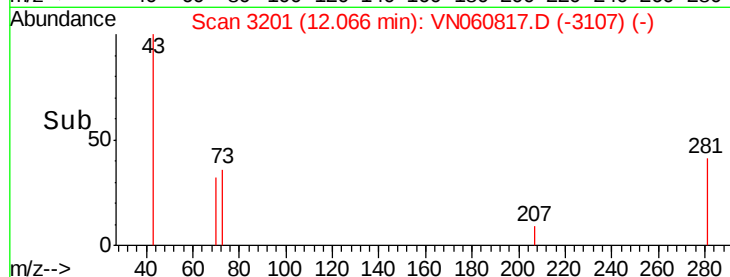
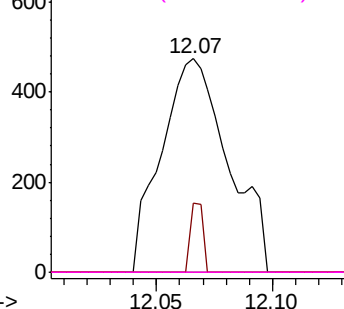


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 26.304 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060817.D

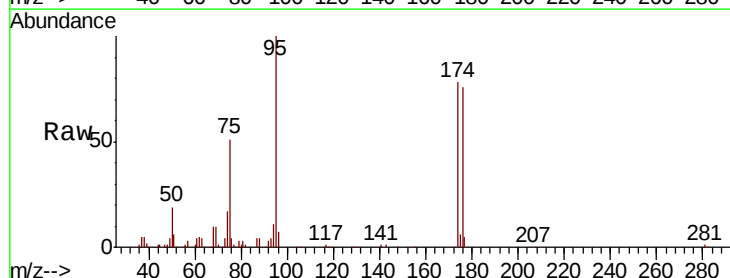
Acq: 2 Apr 2020 12:45

Tgt Ion: 75 Resp: 71834

Ion Ratio Lower Upper

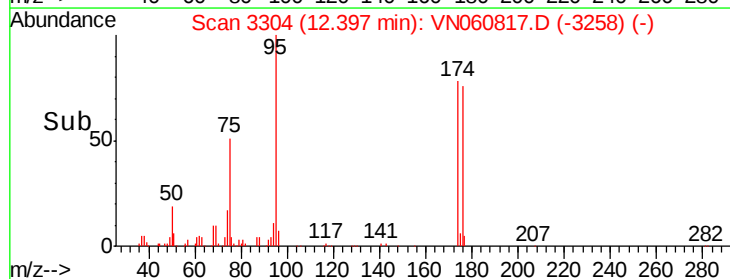
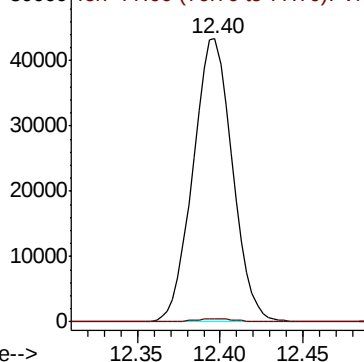
75 100

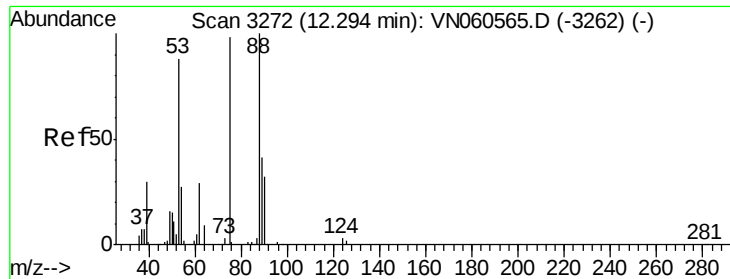
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

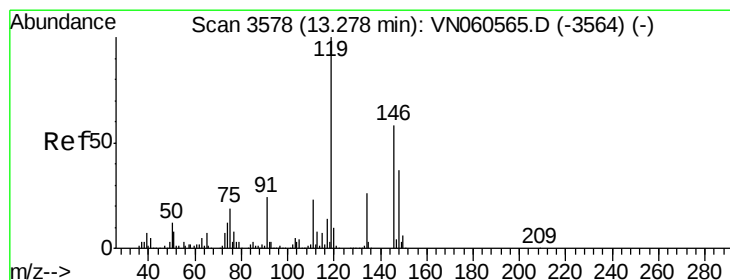
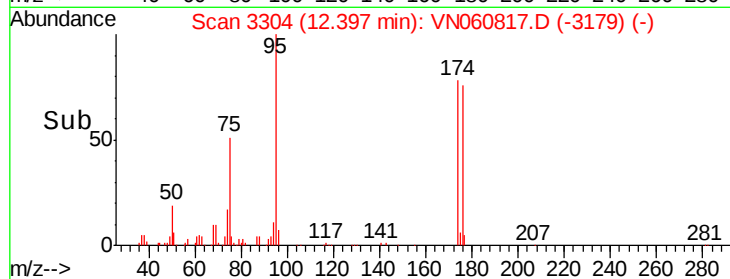
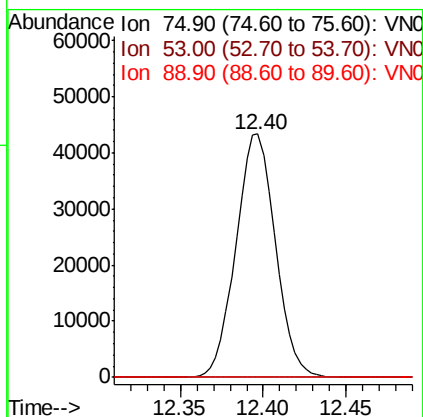
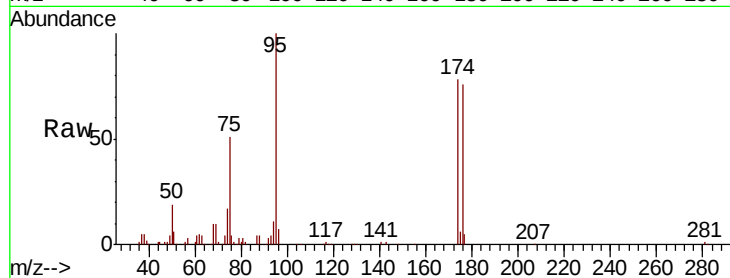




#81
trans-1,4-Dichloro-2-butene
Concen: 67.557 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.10 min
Lab File: VN060817.D
Acq: 2 Apr 2020 12:45

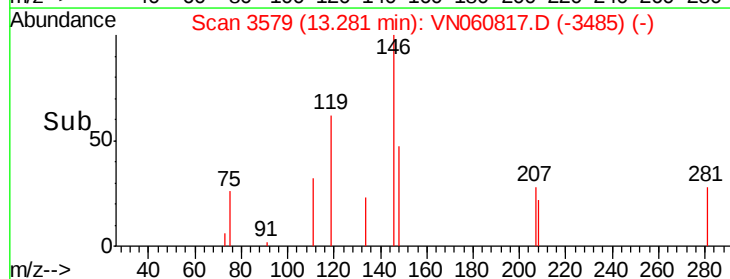
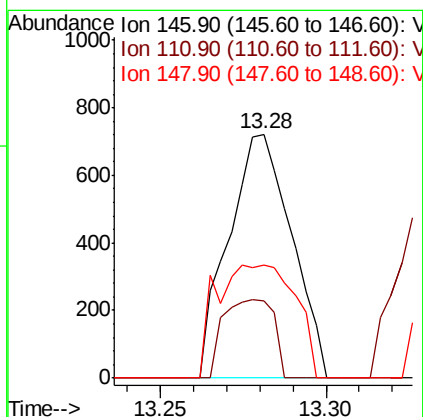
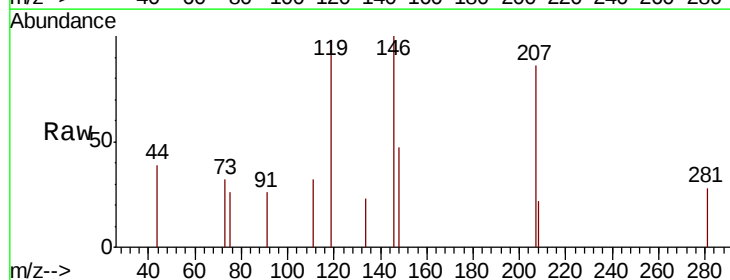
Instrument :
MSVOA_N
ClientSampled :

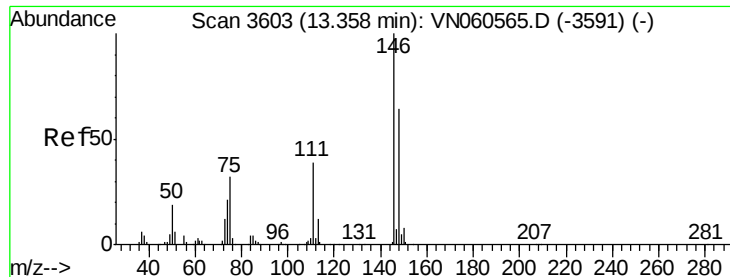
Tot Ion: 75 Resp: 71834
Ion Ratio Lower Upper
75 100
53 0.0 73.0 109.4#
89 0.0 34.8 52.2#



#87
1,3-Dichlorobenzene
Concen: 0.237 ug/l
RT: 13.28 min Scan# 3579
Delta R.T. 0.00 min
Lab File: VN060817.D
Acq: 2 Apr 2020 12:45

Tgt Ion: 146 Resp: 956
Ion Ratio Lower Upper
146 100
111 25.6 20.3 60.8
148 57.8 32.5 97.4





#88

1,4-Dichlorobenzene

Concen: 0.236 ug/l

RT: 13.28 min Scan# 3579

Delta R.T. -0.08 min

Lab File: VN060817.D

Acq: 2 Apr 2020 12:45

Instrument :

MSVOA_N

ClientSampled :

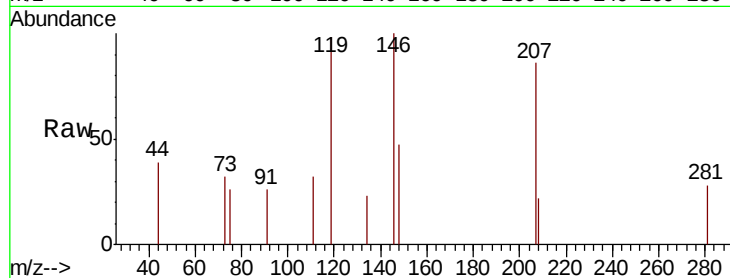
Tot Ion:146 Resp: 956

Ion Ratio Lower Upper

146 100

111 25.6 19.6 58.7

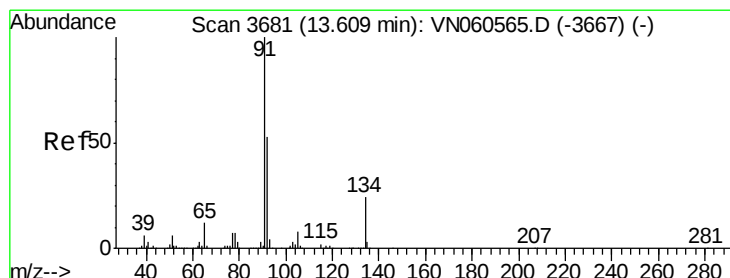
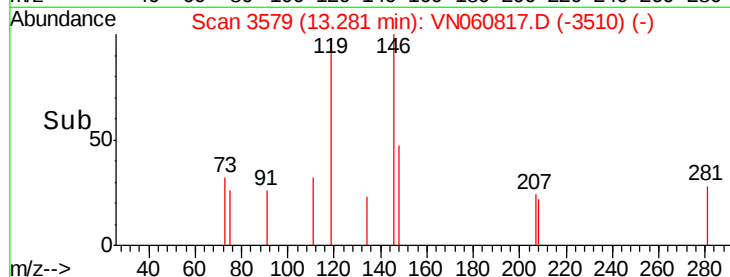
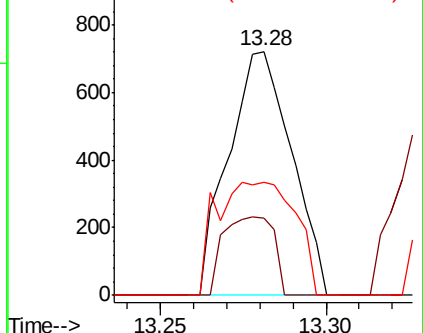
148 57.8 32.1 96.3



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#89

n-Butylbenzene

Concen: 0.246 ug/l

RT: 13.61 min Scan# 3682

Delta R.T. 0.00 min

Lab File: VN060817.D

Acq: 2 Apr 2020 12:45

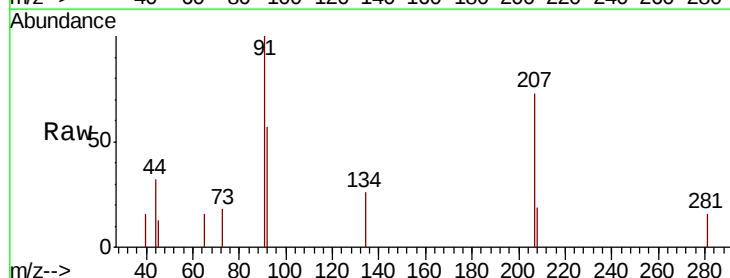
Tgt Ion: 91 Resp: 1793

Ion Ratio Lower Upper

91 100

92 53.3 26.2 78.5

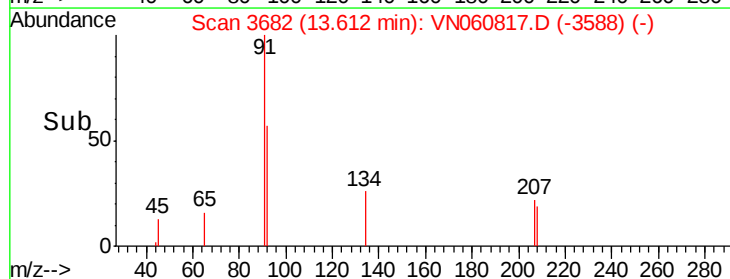
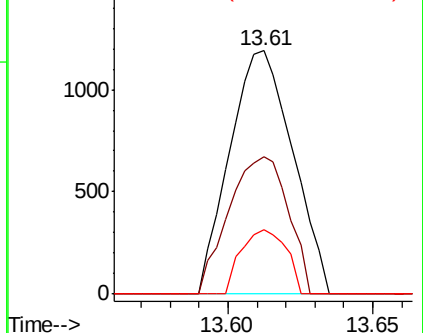
134 18.9 12.3 36.9

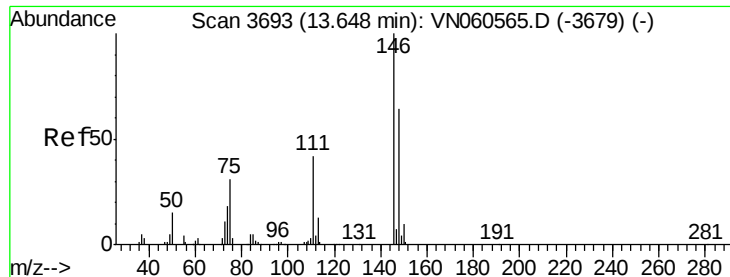


Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 92.00 (91.70 to 92.70): VN0

Ion 134.00 (133.70 to 134.70): V





#91

1,2-Dichlorobenzene

Concen: 0.217 ug/l

RT: 13.65 min Scan# 3694

Delta R.T. 0.00 min

Lab File: VN060817.D

Acq: 2 Apr 2020 12:45

Instrument :

MSVOA_N

ClientSampleId :

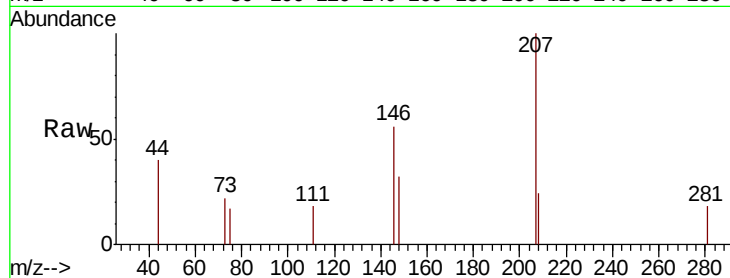
Tot Ion:146 Resp: 839

Ion Ratio Lower Upper

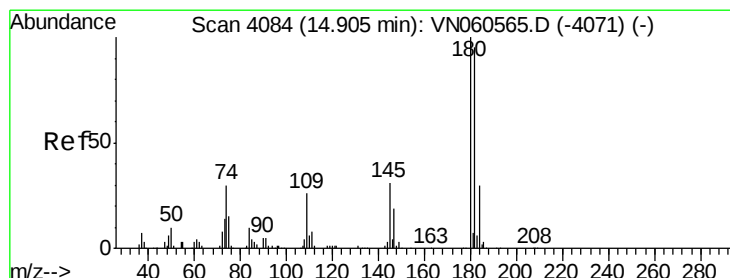
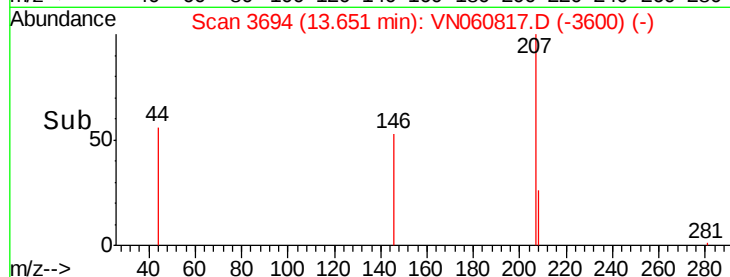
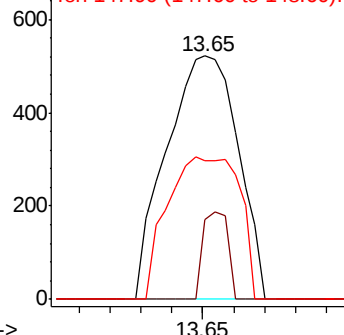
146 100

111 12.3 21.0 63.0#

148 58.5 31.9 95.5



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V



#93

1,2,4-Trichlorobenzene

Concen: 0.595 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN060817.D

Acq: 2 Apr 2020 12:45

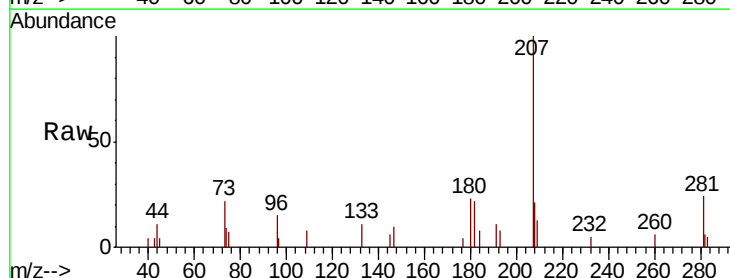
Tgt Ion:180 Resp: 1411

Ion Ratio Lower Upper

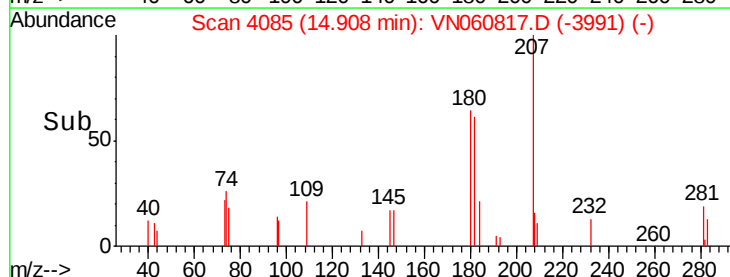
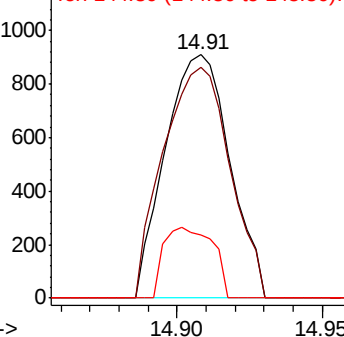
180 100

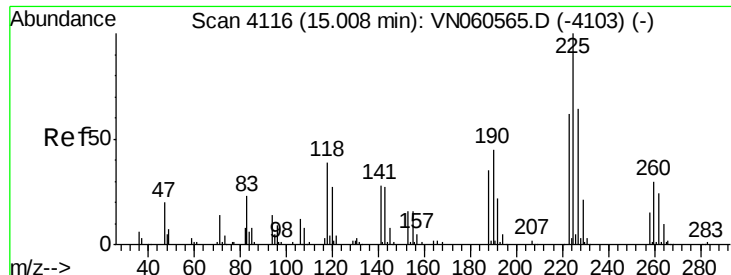
182 98.2 47.9 143.8

145 22.0 15.4 46.2



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: 0.466 ug/l

RT: 15.01 min Scan# 4116

Delta R.T. 0.00 min

Lab File: VN060817.D

Acq: 2 Apr 2020 12:45

Instrument :

MSVOA_N

ClientSampled :

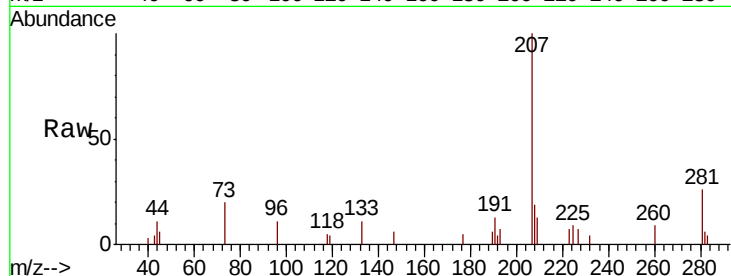
Tot Ion:225 Resp: 541

Ion Ratio Lower Upper

225 100

223 75.8 31.6 95.0

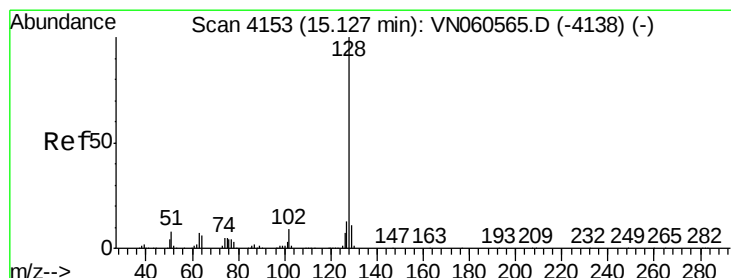
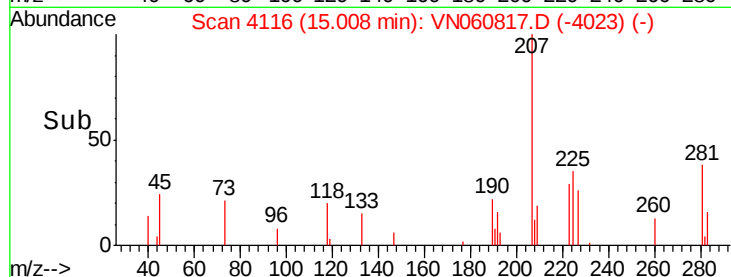
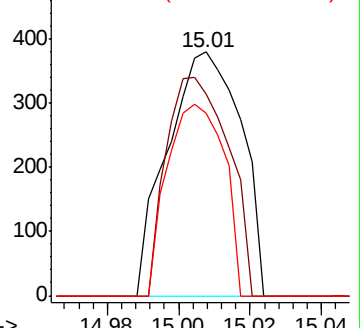
227 60.8 32.3 96.8



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 0.830 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN060817.D

Acq: 2 Apr 2020 12:45

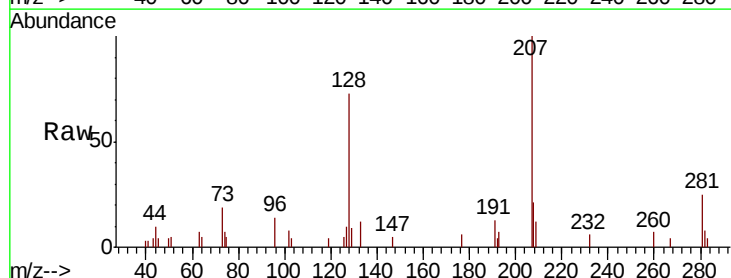
Tgt Ion:128 Resp: 5920

Ion Ratio Lower Upper

128 100

127 12.1 10.2 15.2

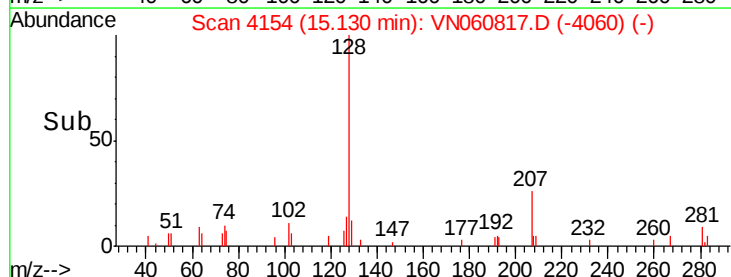
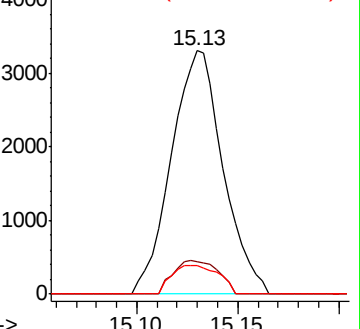
129 10.9 8.8 13.2

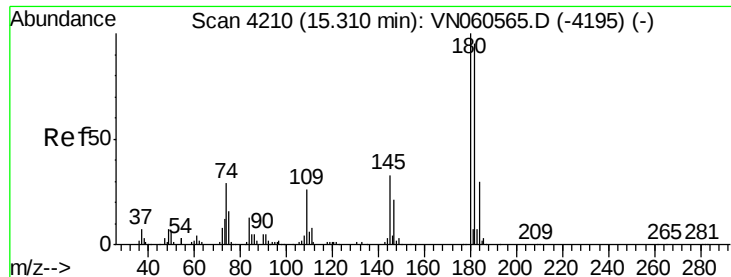


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 0.798 ug/l
 RT: 15.31 min Scan# 4210
 Delta R.T. 0.00 min
 Lab File: VN060817.D
 Acq: 2 Apr 2020 12:45

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:	180	Resp:	1862
Ion Ratio	Lower	Upper	
180	100		
182	97.5	47.5	142.6
145	20.0	16.3	48.8

