

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031720\
 Data File : VN060548.D
 Acq On : 17 Mar 2020 12:02
 Operator : JC/MD
 Sample : L1946-01 50X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 40748

Quant Time: Mar 18 06:42:16 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022720W.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 27 13:52:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	191773	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	313394	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	277776	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	113057	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	119484	48.56	ug/l	0.00
Spiked Amount			Recovery	=	97.12%	
35) Dibromofluoromethane	7.56	113	90935	62.51	ug/l	0.00
Spiked Amount			Recovery	=	125.02%	
50) Toluene-d8	10.08	98	381602	51.83	ug/l	0.00
Spiked Amount			Recovery	=	103.66%	
62) 4-Bromofluorobenzene	12.40	95	131003	46.94	ug/l	0.00
Spiked Amount			Recovery	=	93.88%	

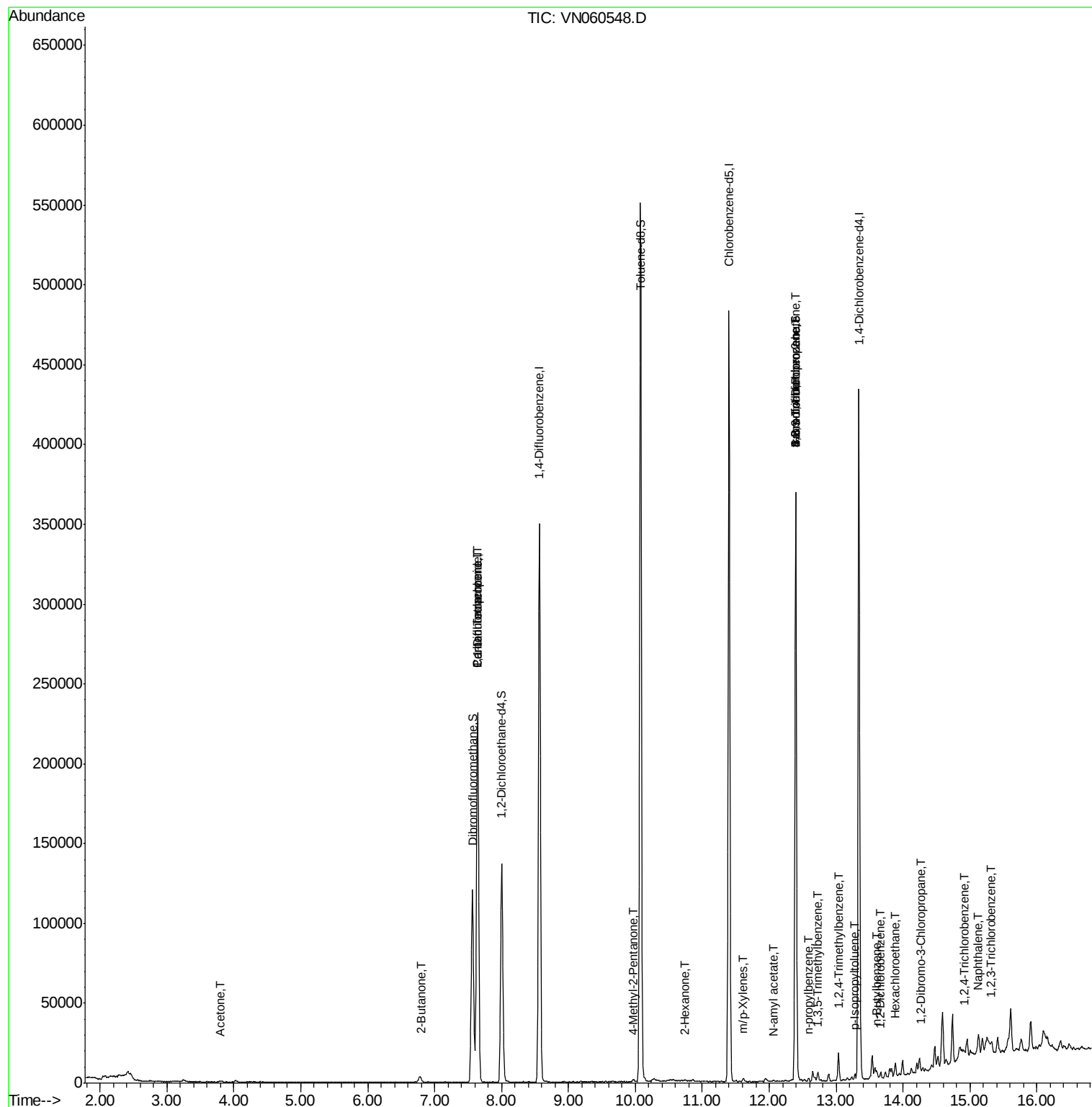
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	1060	1.334	ug/l	92
17) Carbon Disulfide	4.02	76	954	Below Cal	#	75
25) 2-Butanone	6.80	43	412	0.321	ug/l #	49
31) Cyclohexane	7.64	56	3870	Below Cal	#	7
36) 1,1-Dichloropropene	7.64	75	15346	5.138	ug/l #	50
38) Carbon Tetrachloride	7.64	117	18044	6.205	ug/l #	16
51) 4-Methyl-2-Pentanone	9.96	43	1162	0.414	ug/l #	77
59) 2-Hexanone	10.75	43	956	0.464	ug/l #	62
68) m/p-Xylenes	11.62	106	973	0.252	ug/l	94
71) Bromoform	12.40	173	731	0.489	ug/l #	1
74) N-amyl acetate	12.07	43	948	0.259	ug/l #	49
76) 1,2,3-Trichloropropane	12.40	75	65720	26.495	ug/l #	100
78) n-propylbenzene	12.58	91	2098	0.214	ug/l	96
80) 1,3,5-Trimethylbenzene	12.73	105	2941	0.417	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.40	75	65720	73.138	ug/l #	8
84) 1,2,4-Trimethylbenzene	13.03	105	10144	1.424	ug/l	99
86) p-Isopropyltoluene	13.28	119	1882	0.249	ug/l	83
88) 1,4-Dichlorobenzene	13.28	146	829	Below Cal		91
89) n-Butylbenzene	13.61	91	3594	0.517	ug/l #	74
90) Hexachloroethane	13.89	117	421	0.384	ug/l #	8
91) 1,2-Dichlorobenzene	13.65	146	724	0.201	ug/l	94
92) 1,2-Dibromo-3-Chloropropan	14.27	75	312	0.605	ug/l #	3
93) 1,2,4-Trichlorobenzene	14.91	180	1482	0.735	ug/l #	73
95) Naphthalene	15.13	128	10460	1.288	ug/l	97
96) 1,2,3-Trichlorobenzene	15.31	180	1992	0.745	ug/l #	78

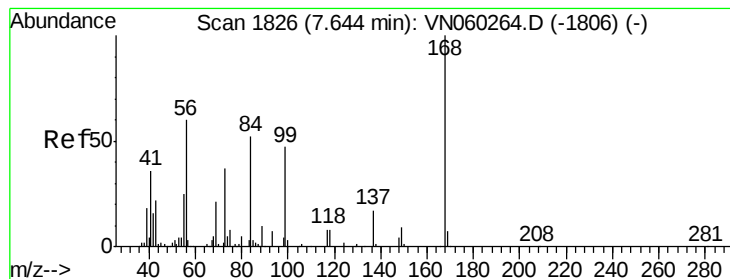
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN060548.D

Acq: 17 Mar 2020 12:02

Instrument :

MSVOA_N

ClientSampled :

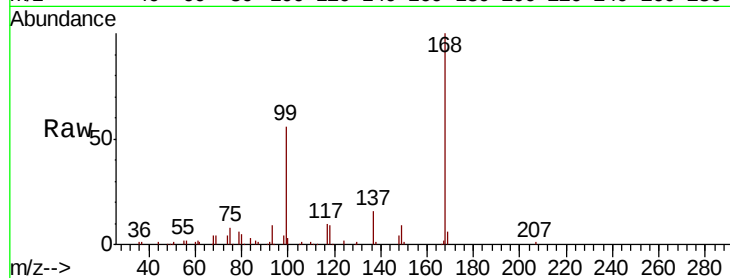
40748

Tot Ion:168 Resp: 191773

Ion Ratio Lower Upper

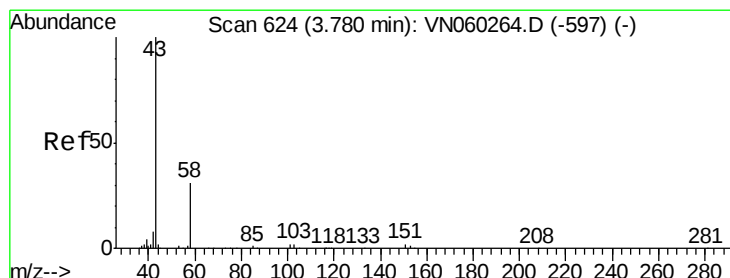
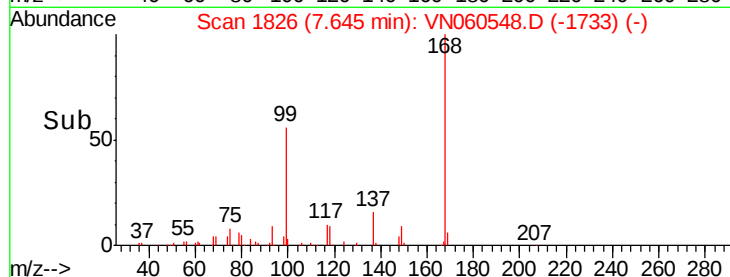
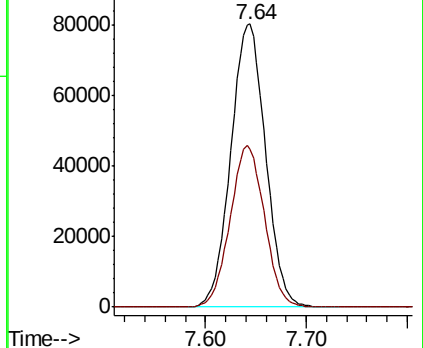
168 100

99 56.0 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 1.334 ug/l

RT: 3.79 min Scan# 628

Delta R.T. 0.01 min

Lab File: VN060548.D

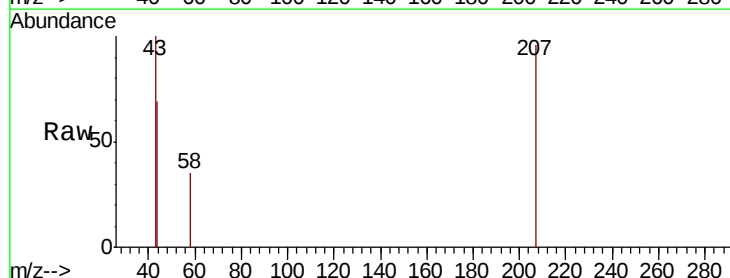
Acq: 17 Mar 2020 12:02

Tgt Ion: 43 Resp: 1060

Ion Ratio Lower Upper

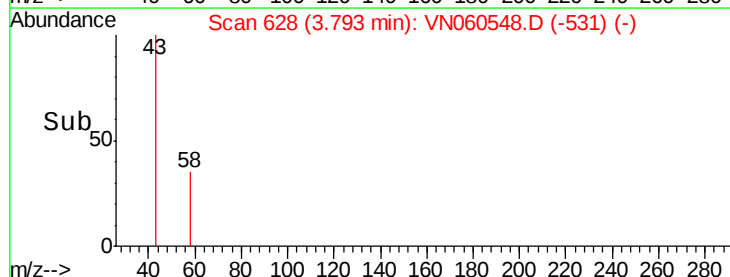
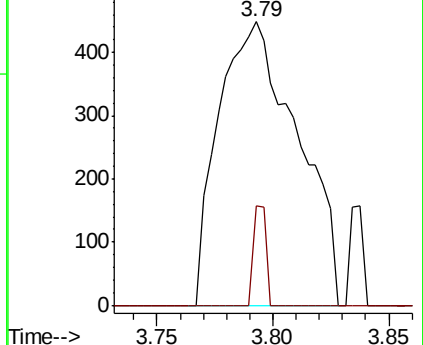
43 100

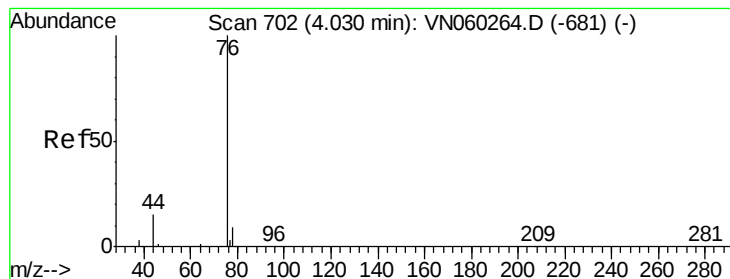
58 35.0 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN





#17

Carbon Disulfide

Concen: Below Cal

RT: 4.02 min Scan# 700

Delta R.T. -0.01 min

Lab File: VN060548.D

Acq: 17 Mar 2020 12:02

Instrument :

MSVOA_N

ClientSampleId :

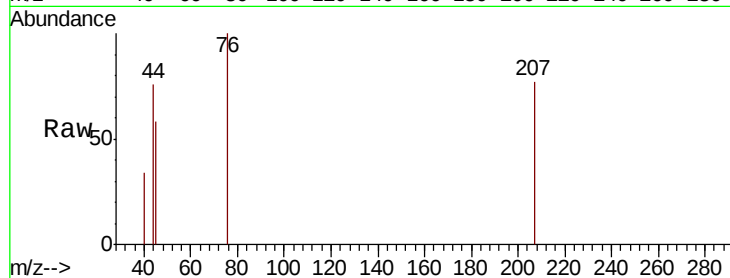
40748

Tot Ion: 76 Resp: 954

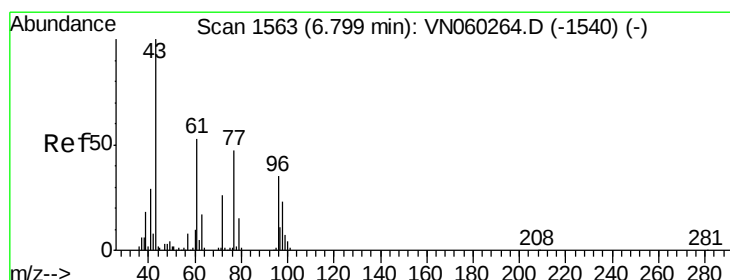
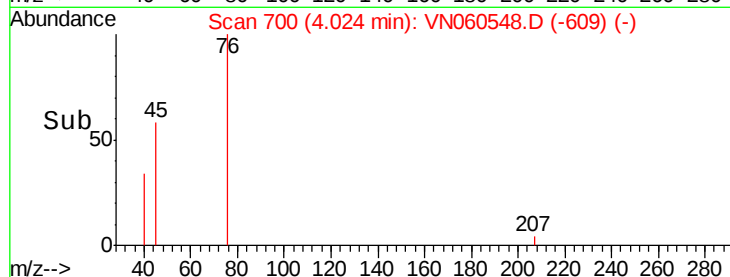
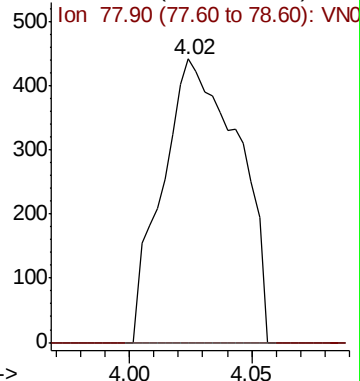
Ion Ratio Lower Upper

76 100

78 0.0 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VN060264.D (-681) (-)



#25

2-Butanone

Concen: 0.321 ug/l

RT: 6.80 min Scan# 1564

Delta R.T. 0.00 min

Lab File: VN060548.D

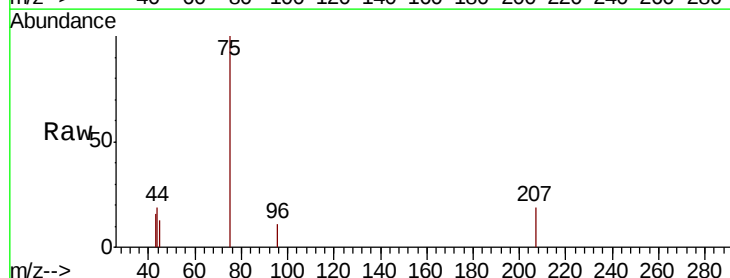
Acq: 17 Mar 2020 12:02

Tgt Ion: 43 Resp: 412

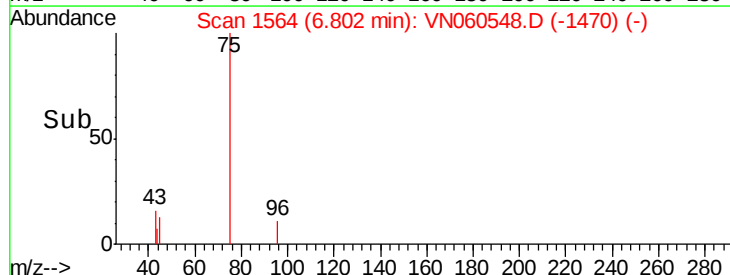
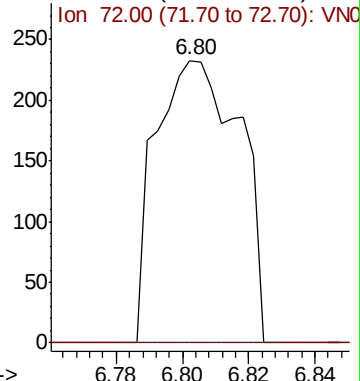
Ion Ratio Lower Upper

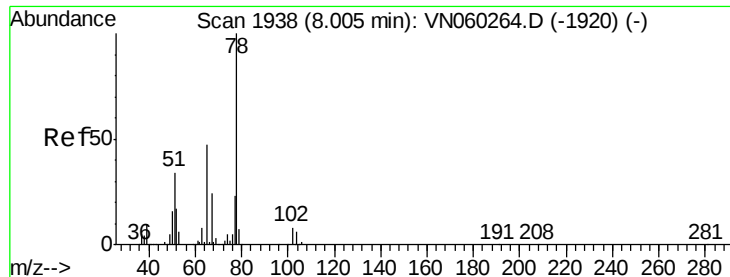
43 100

72 0.0 20.9 31.3#



Abundance Ion 43.00 (42.70 to 43.70): VN060264.D (-1540) (-)

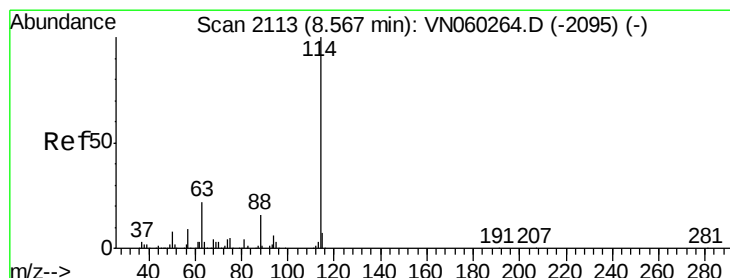
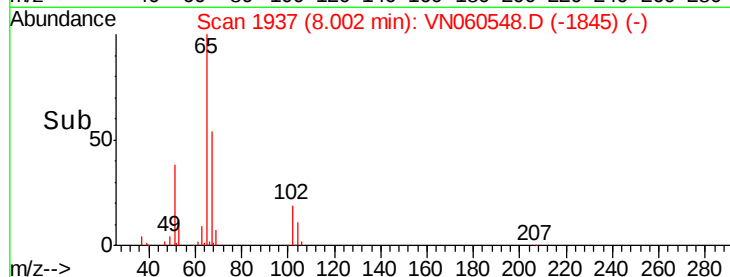
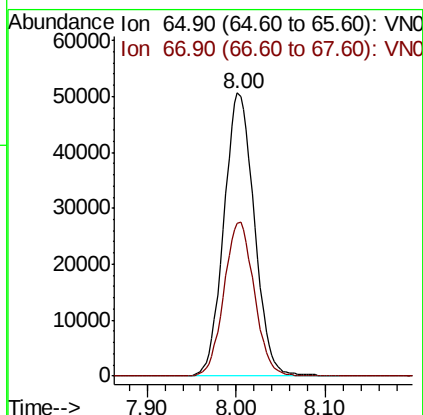
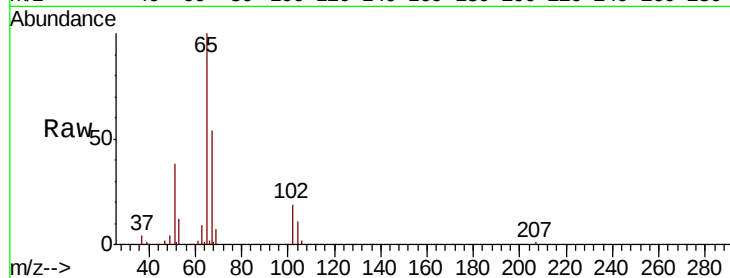




#33
 1,2-Dichloroethane-d4
 Concen: 48.561 ug/l
 RT: 8.00 min Scan# 1937
 Delta R.T. -0.00 min
 Lab File: VN060548.D
 Acq: 17 Mar 2020 12:02

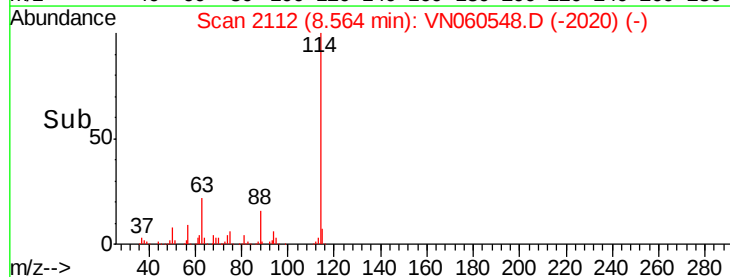
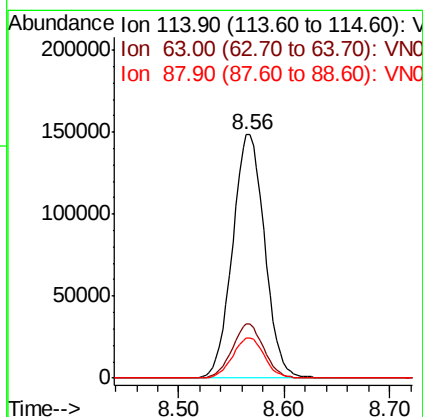
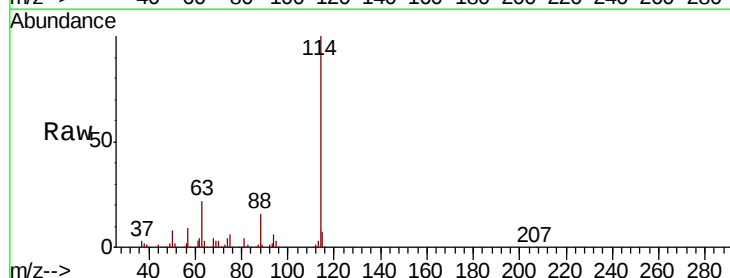
Instrument :
 MSVOA_N
 ClientSampled :
 40748

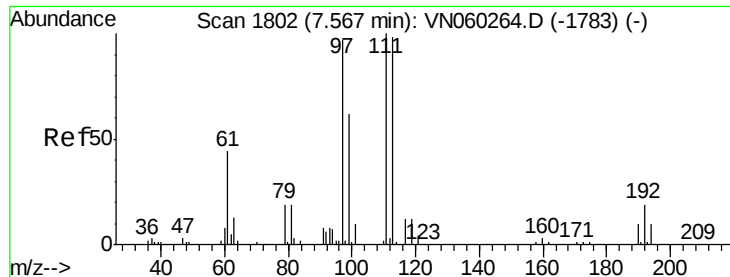
Tot Ion: 65 Resp: 119484
 Ion Ratio Lower Upper
 65 100
 67 54.1 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.56 min Scan# 2112
 Delta R.T. -0.00 min
 Lab File: VN060548.D
 Acq: 17 Mar 2020 12:02

Tgt Ion: 114 Resp: 313394
 Ion Ratio Lower Upper
 114 100
 63 22.5 0.0 43.2
 88 16.5 0.0 31.6

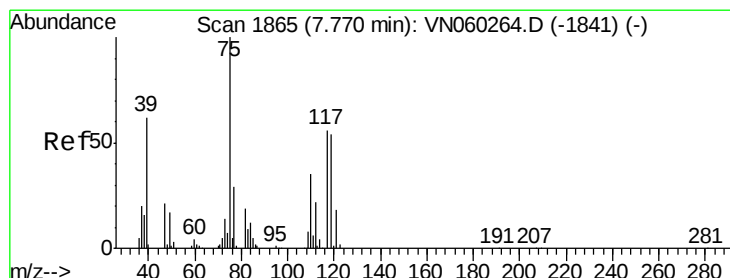
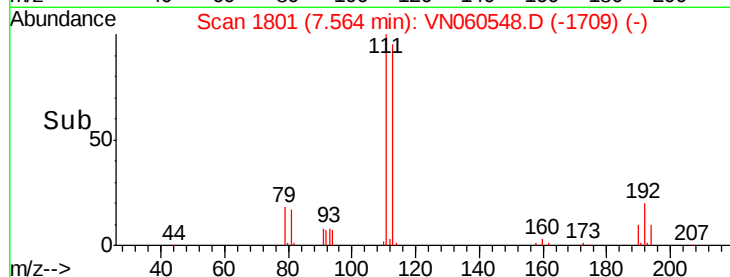
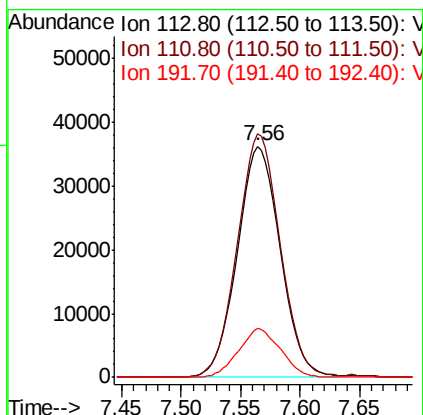
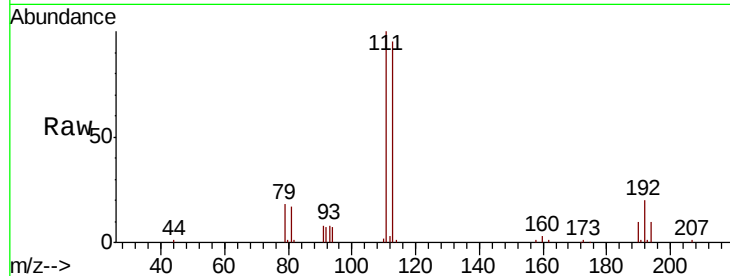




#35
 Dibromofluoromethane
 Concen: 62.512 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. -0.00 min
 Lab File: VN060548.D
 Acq: 17 Mar 2020 12:02

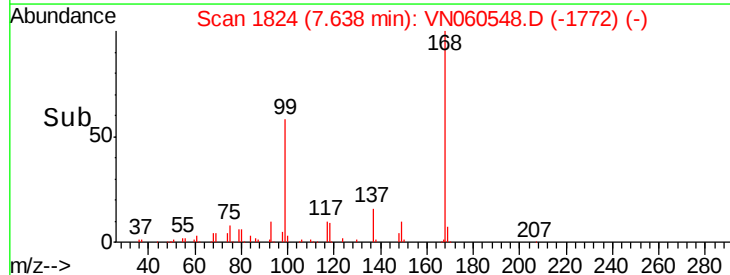
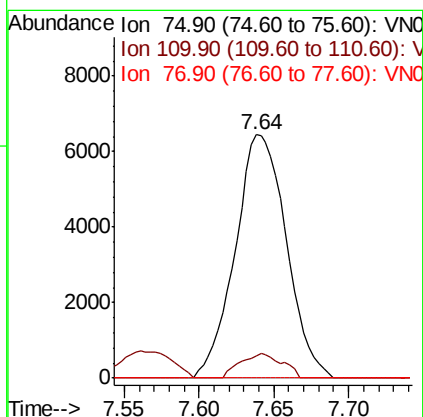
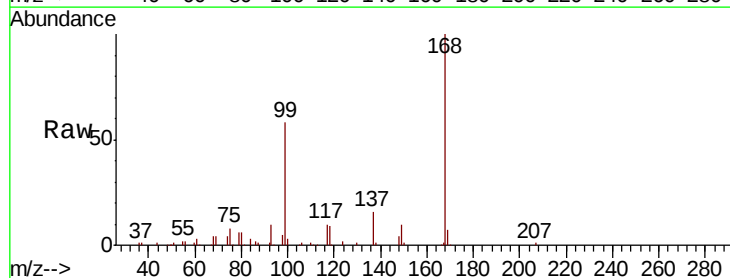
Instrument :
 MSVOA_N
 ClientSampleId :
 40748

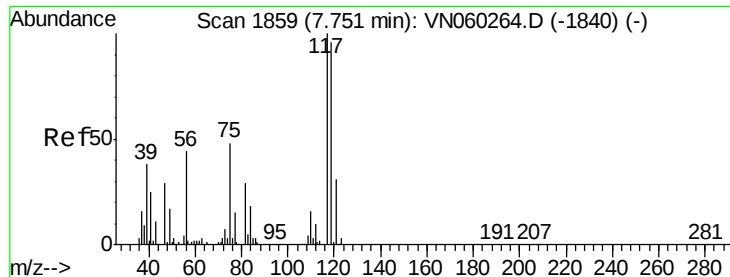
Tot Ion	Ratio	Lower	Upper
113	100		
111	104.9	82.4	123.6
192	20.4	16.2	24.2



#36
 1,1-Dichloropropene
 Concen: 5.138 ug/l
 RT: 7.64 min Scan# 1824
 Delta R.T. -0.13 min
 Lab File: VN060548.D
 Acq: 17 Mar 2020 12:02

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.2	17.3	52.0#
77	0.0	24.2	36.2#





#38

Carbon Tetrachloride

Concen: 6.205 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN060548.D

Acq: 17 Mar 2020 12:02

Instrument :

MSVOA_N

ClientSampled :

40748

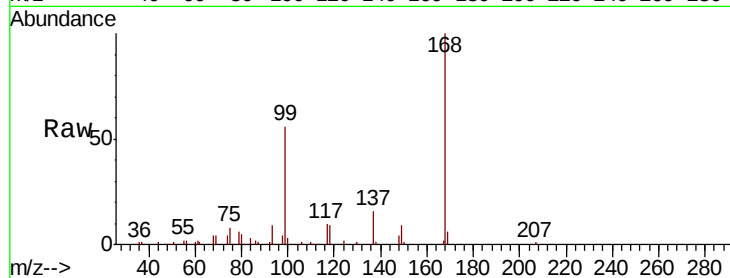
Tot Ion:117 Resp: 18044

Ion Ratio Lower Upper

117 100

119 4.7 76.7 115.1#

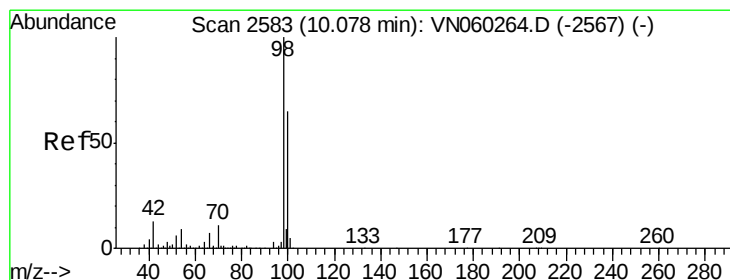
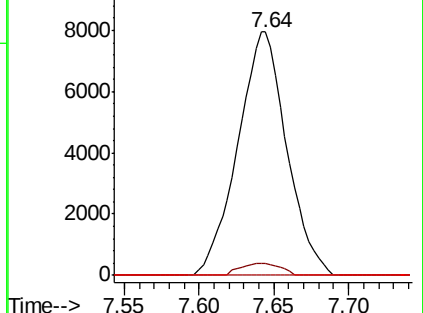
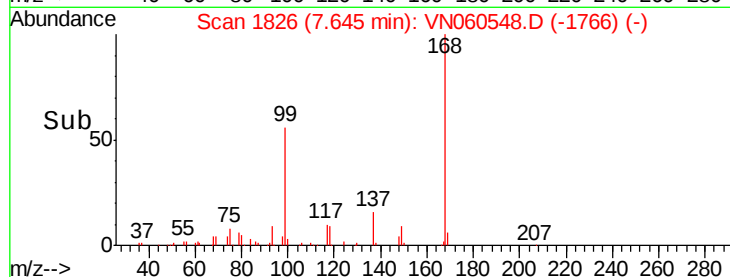
121 0.0 24.5 36.7#



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: 51.832 ug/l

RT: 10.08 min Scan# 2582

Delta R.T. -0.00 min

Lab File: VN060548.D

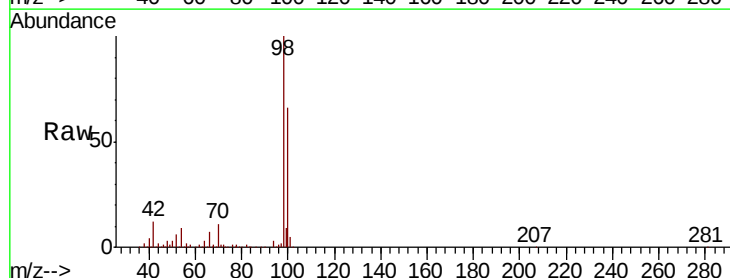
Acq: 17 Mar 2020 12:02

Tgt Ion: 98 Resp: 381602

Ion Ratio Lower Upper

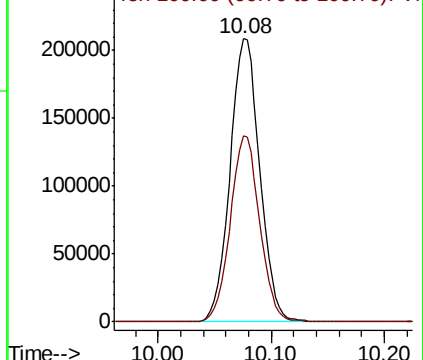
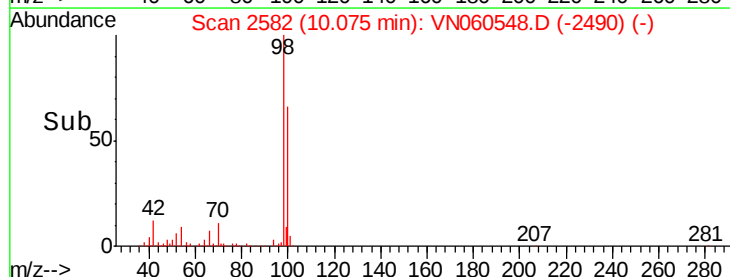
98 100

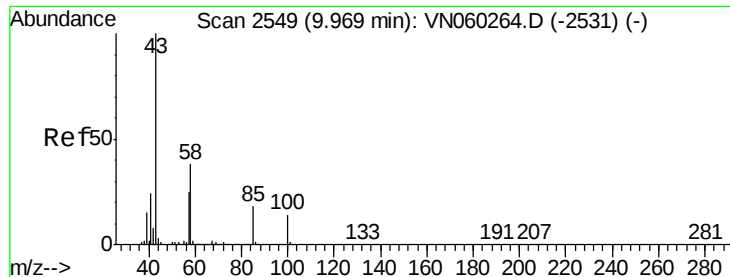
100 64.9 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN

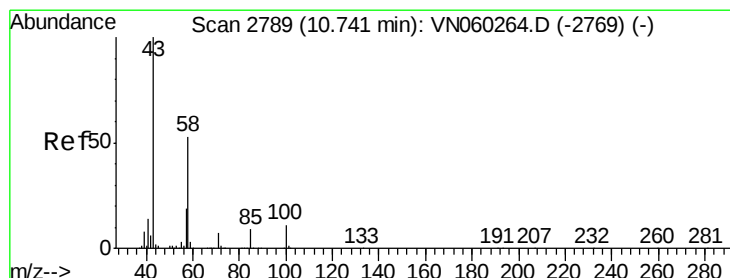
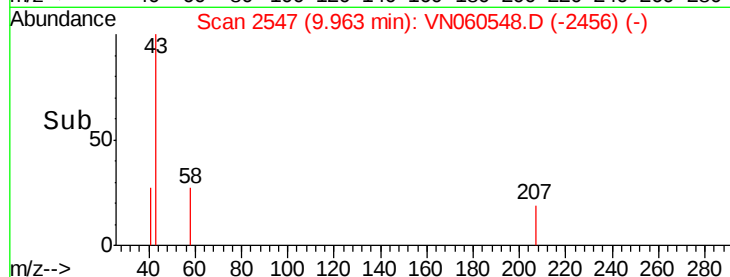
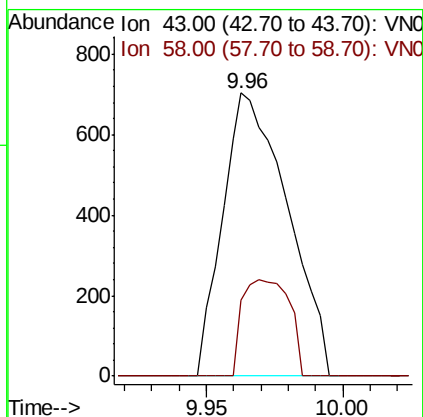
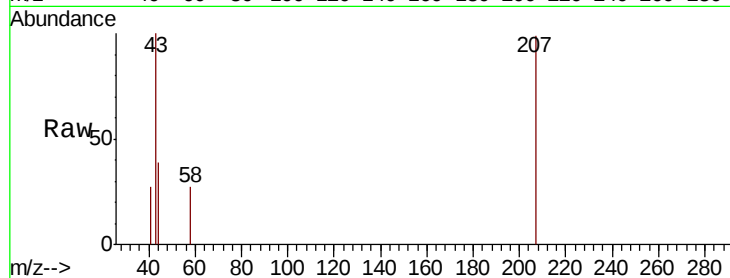




#51
 4-Methyl-2-Pentanone
 Concen: 0.414 ug/l
 RT: 9.96 min Scan# 2547
 Delta R.T. -0.01 min
 Lab File: VN060548.D
 Acq: 17 Mar 2020 12:02

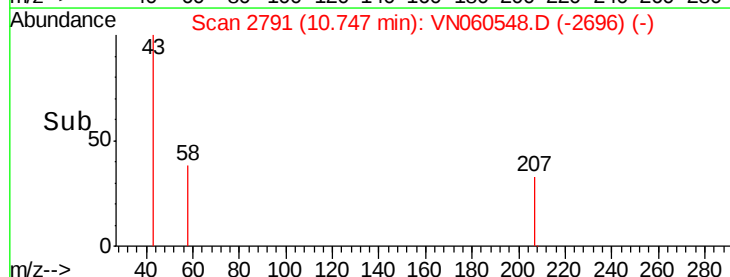
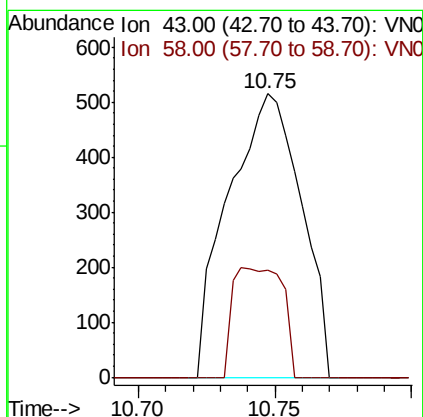
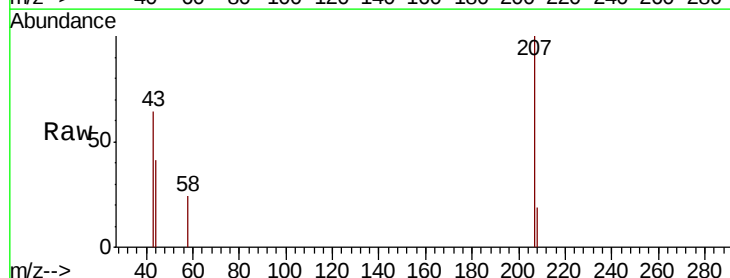
Instrument :
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 40748

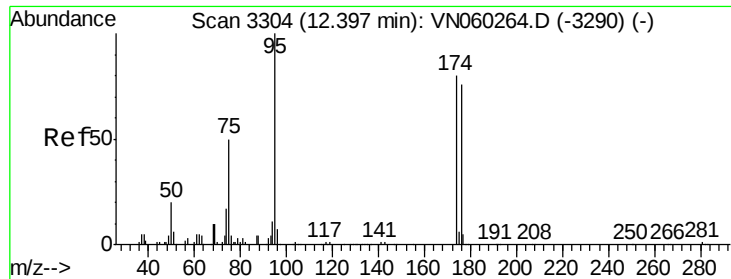
Tot Ion: 43 Resp: 1162
 Ion Ratio Lower Upper
 43 100
 58 24.6 30.9 46.3#



#59
 2-Hexanone
 Concen: 0.464 ug/l
 RT: 10.75 min Scan# 2791
 Delta R.T. 0.01 min
 Lab File: VN060548.D
 Acq: 17 Mar 2020 12:02

Tgt Ion: 43 Resp: 956
 Ion Ratio Lower Upper
 43 100
 58 26.4 26.5 79.5#





#62

4-Bromofluorobenzene

Concen: 46.940 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060548.D

Acq: 17 Mar 2020 12:02

Instrument :

MSVOA_N

ClientSampled :

40748

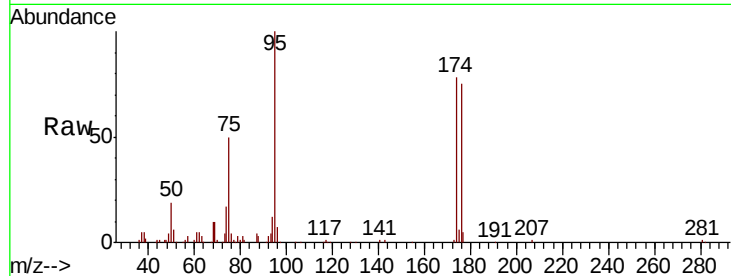
Tot Ion: 95 Resp: 131003

Ion Ratio Lower Upper

95 100

174 78.5 0.0 159.2

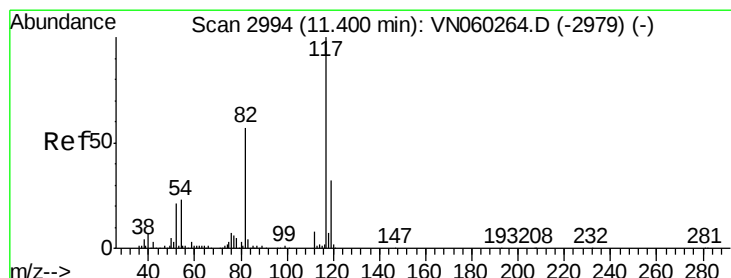
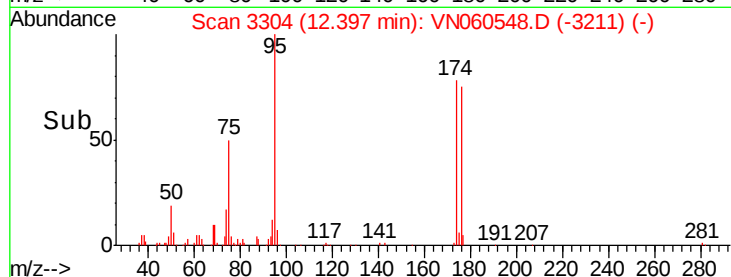
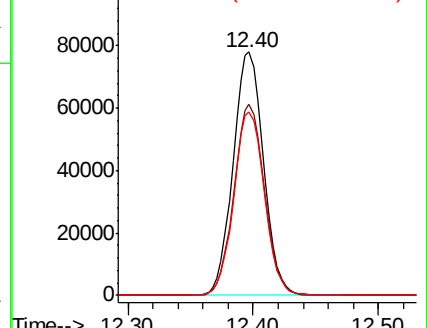
176 75.8 0.0 153.8



Abundance Ion 94.90 (94.60 to 95.60): VN060548.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN060548.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN060548.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060548.D

Acq: 17 Mar 2020 12:02

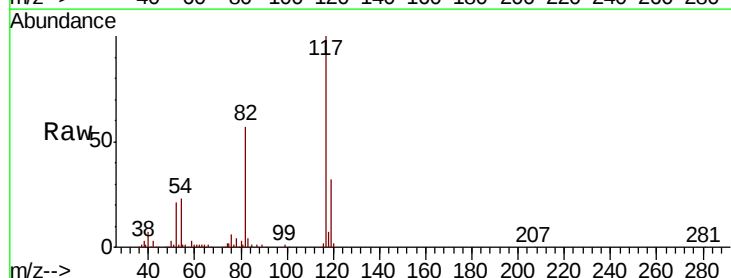
Tgt Ion: 117 Resp: 277776

Ion Ratio Lower Upper

117 100

82 57.0 45.8 68.6

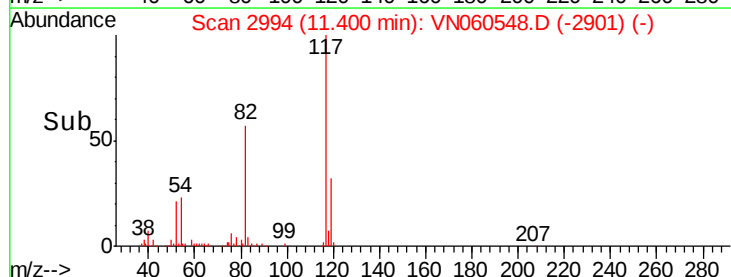
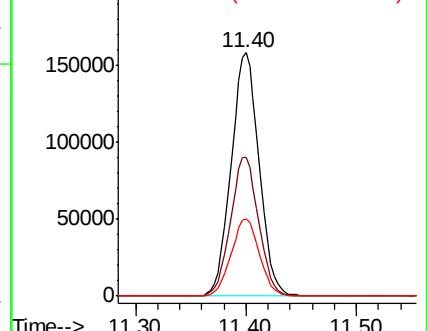
119 31.8 25.8 38.8

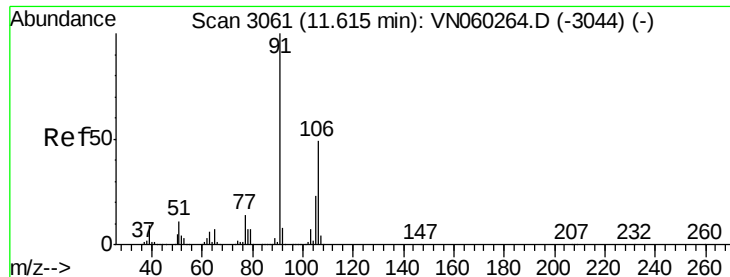


Abundance Ion 116.90 (116.60 to 117.60): VN060548.D (-2979) (-)

Ion 82.00 (81.70 to 82.70): VN060548.D (-2979) (-)

Ion 118.90 (118.60 to 119.60): VN060548.D (-2979) (-)





#68

m/p-Xvlenes

Concen: 0.252 ug/l

RT: 11.62 min Scan# 3061

Delta R.T. 0.00 min

Lab File: VN060548.D

Acq: 17 Mar 2020 12:02

Instrument :

MSVOA_N

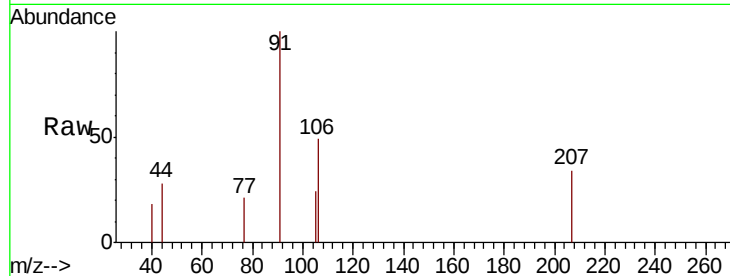
ClientSampleId :
40748

Tot Ion:106 Resp: 973

Ion Ratio Lower Upper

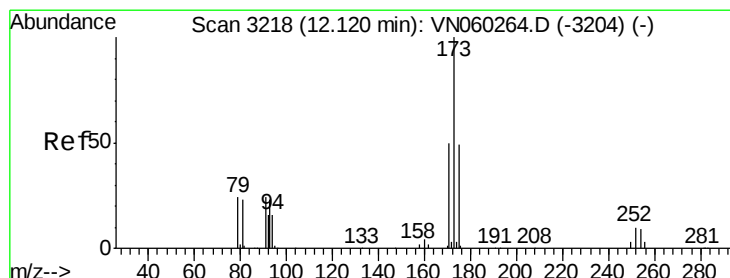
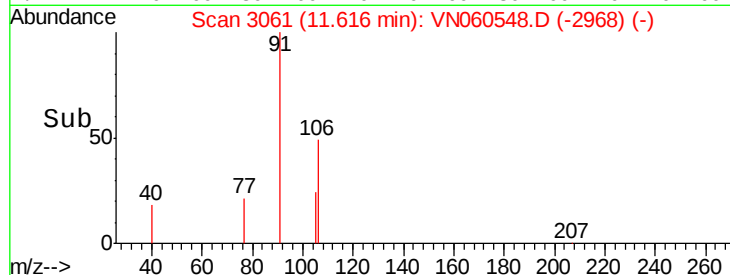
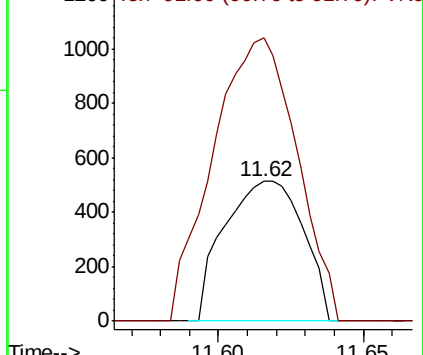
106 100

91 214.2 164.5 246.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN



#71

Bromoform

Concen: 0.489 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.28 min

Lab File: VN060548.D

Acq: 17 Mar 2020 12:02

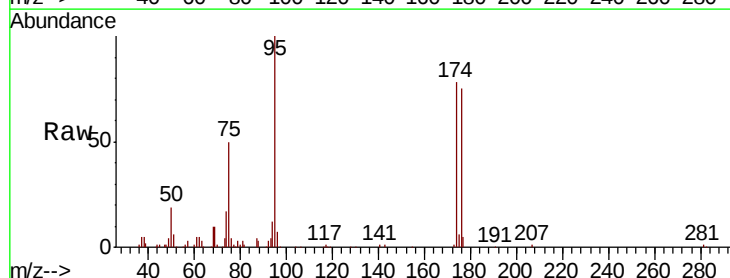
Tgt Ion:173 Resp: 731

Ion Ratio Lower Upper

173 100

175 852.0 24.1 72.2#

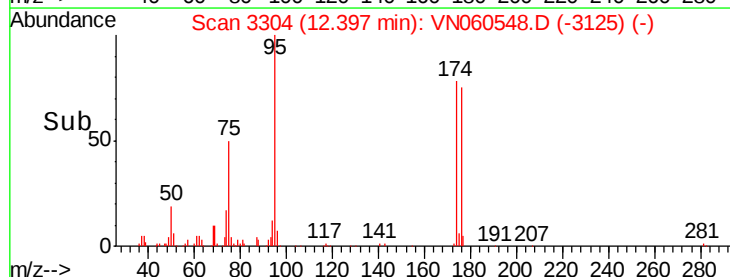
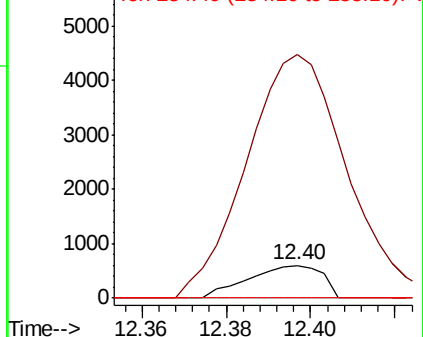
254 0.0 0.0 0.0

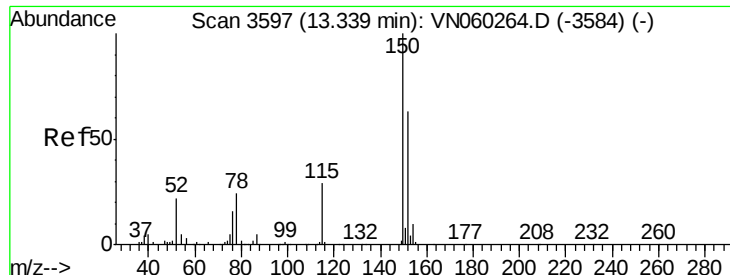


Abundance Ion 172.70 (172.40 to 173.40): V

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: VN060548.D

Acq: 17 Mar 2020 12:02

Instrument :

MSVOA_N

ClientSampled :

40748

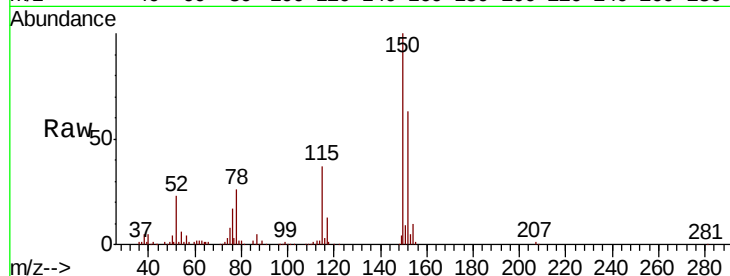
Tot Ion:152 Resp: 113057

Ion Ratio Lower Upper

152 100

115 59.9 30.0 90.0

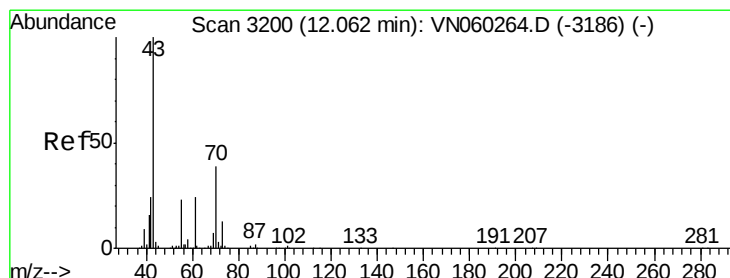
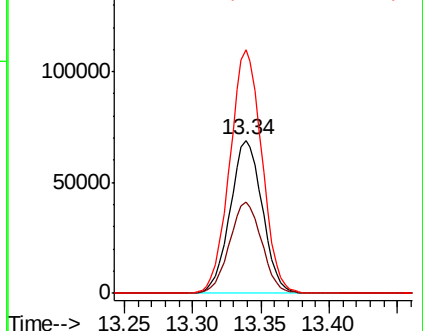
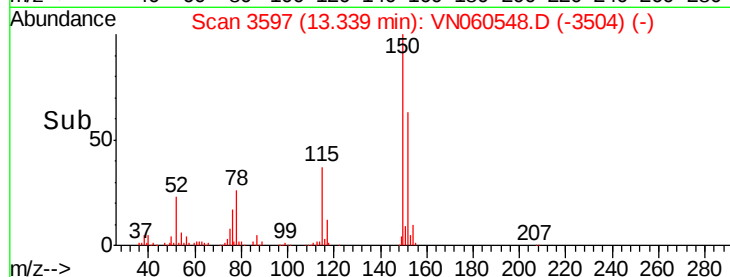
150 159.1 0.0 349.6



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: 0.259 ug/l

RT: 12.07 min Scan# 3201

Delta R.T. 0.00 min

Lab File: VN060548.D

Acq: 17 Mar 2020 12:02

Tgt Ion: 43 Resp: 948

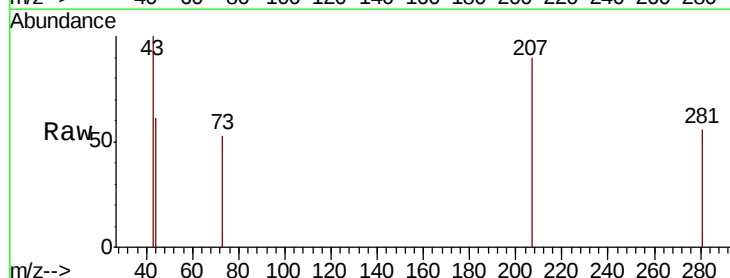
Ion Ratio Lower Upper

43 100

70 6.5 32.2 48.2#

55 0.0 18.2 27.4#

61 0.0 19.2 28.8#

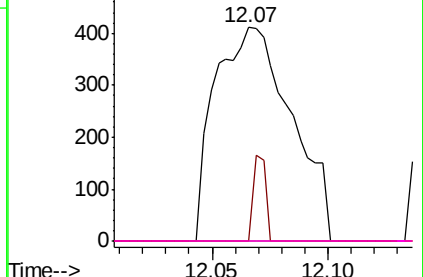
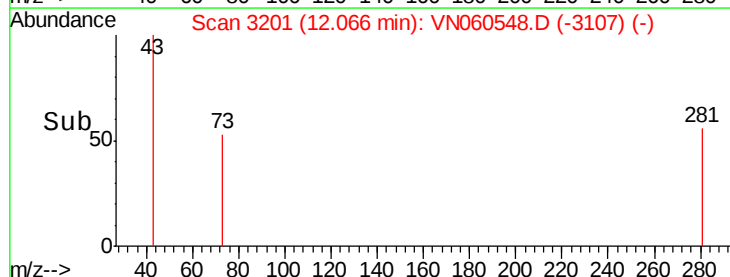


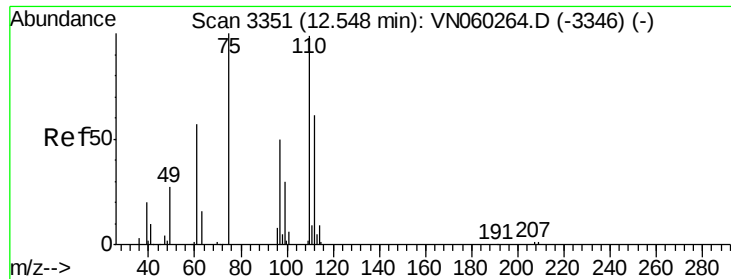
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 26.495 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060548.D

Acq: 17 Mar 2020 12:02

Instrument :

MSVOA_N

ClientSampled :

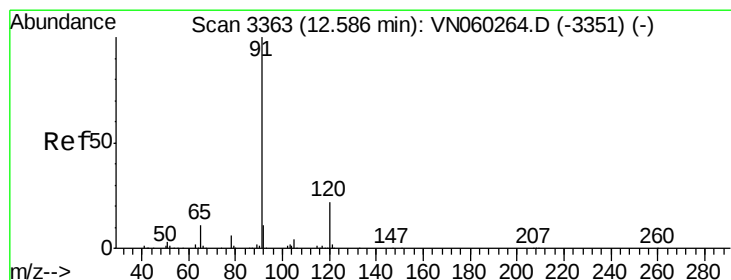
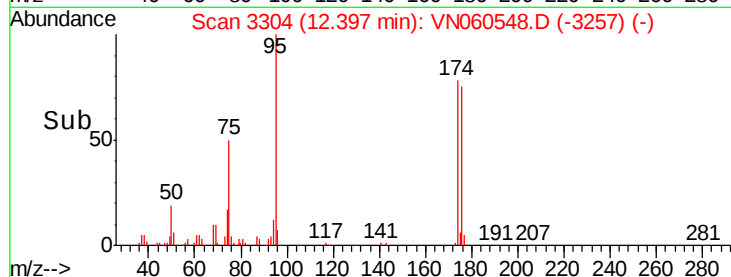
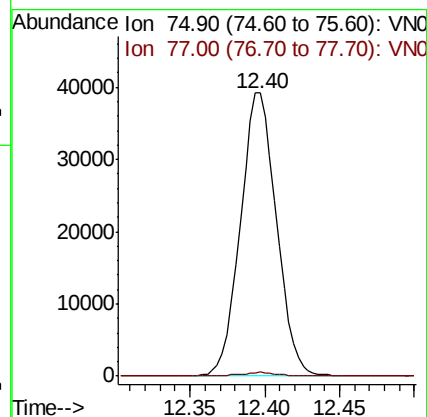
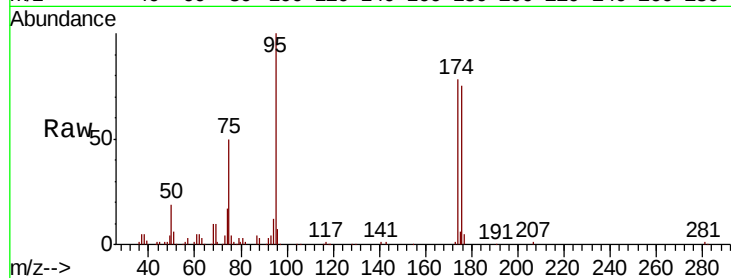
40748

Tot Ion: 75 Resp: 65720

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#78

n-propylbenzene

Concen: 0.214 ug/l

RT: 12.58 min Scan# 3362

Delta R.T. -0.00 min

Lab File: VN060548.D

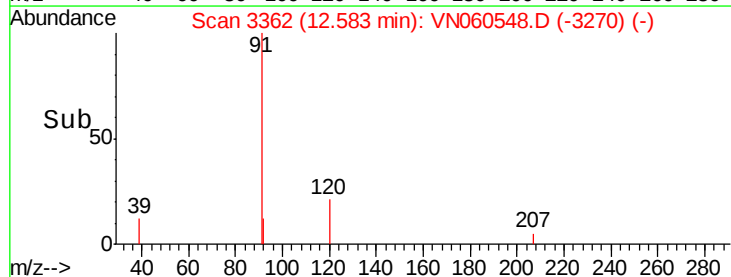
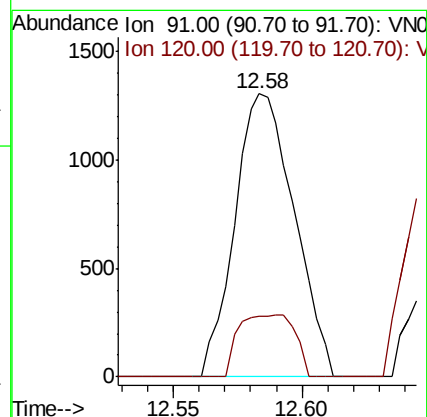
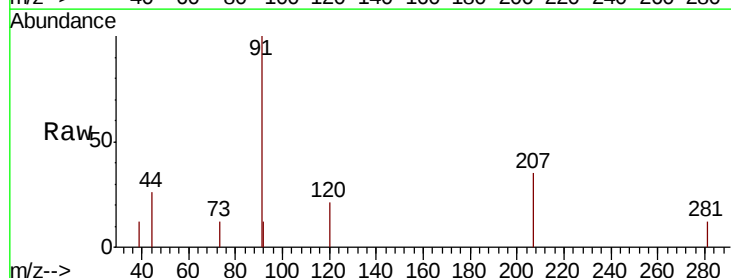
Acq: 17 Mar 2020 12:02

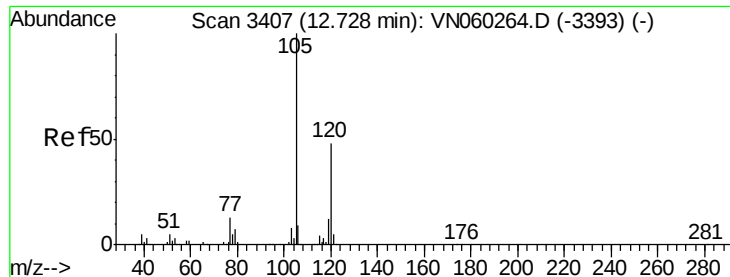
Tgt Ion: 91 Resp: 2098

Ion Ratio Lower Upper

91 100

120 20.6 11.3 33.9





#80

1,3,5-Trimethylbenzene

Concen: 0.417 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. 0.00 min

Lab File: VN060548.D

Acq: 17 Mar 2020 12:02

Instrument :

MSVOA_N

ClientSampleId :

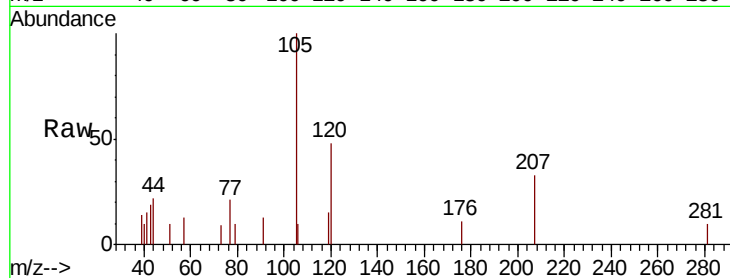
40748

Tot Ion:105 Resp: 2941

Ion Ratio Lower Upper

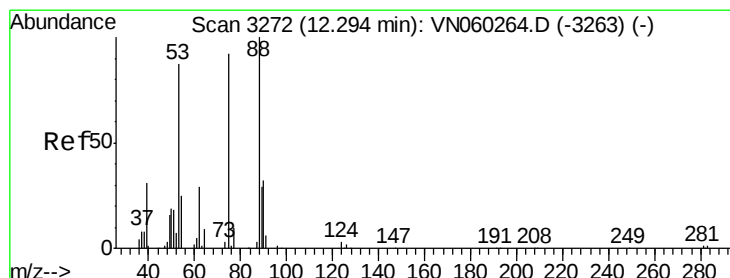
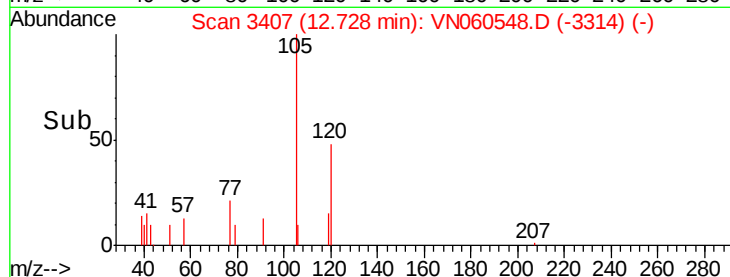
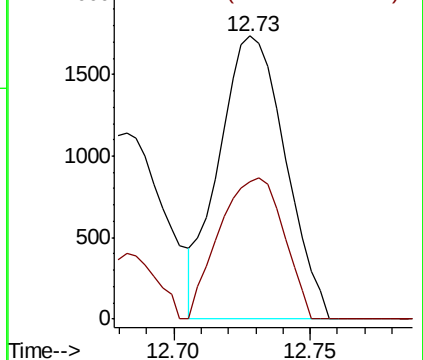
105 100

120 48.5 24.1 72.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 73.138 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060548.D

Acq: 17 Mar 2020 12:02

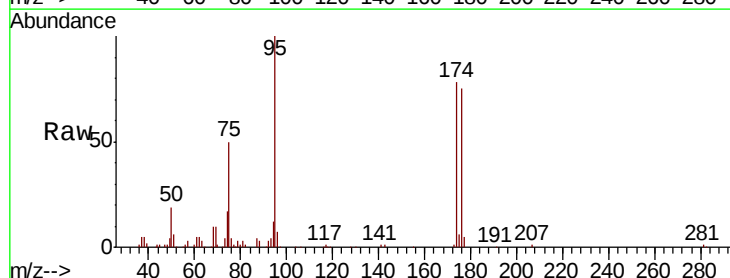
Tgt Ion: 75 Resp: 65720

Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

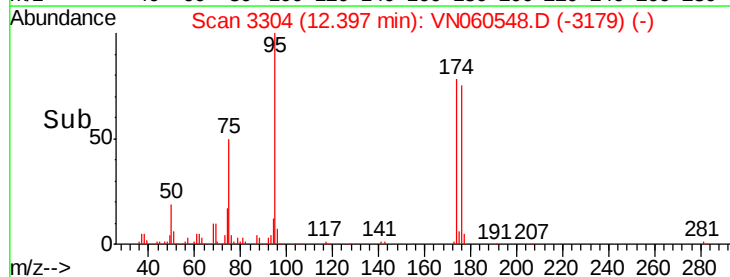
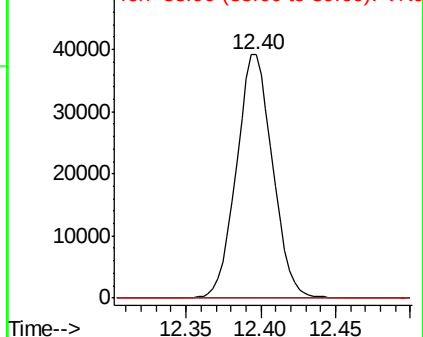
89 0.0 57.1 85.7#

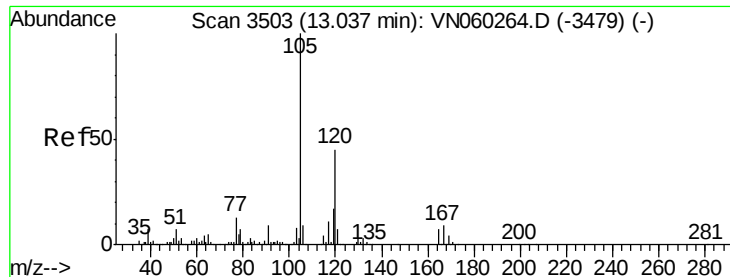


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#84

1,2,4-Trimethylbenzene

Concen: 1.424 ug/l

RT: 13.03 min Scan# 3502

Delta R.T. -0.00 min

Lab File: VN060548.D

Acq: 17 Mar 2020 12:02

Instrument :

MSVOA_N

ClientSampleId :

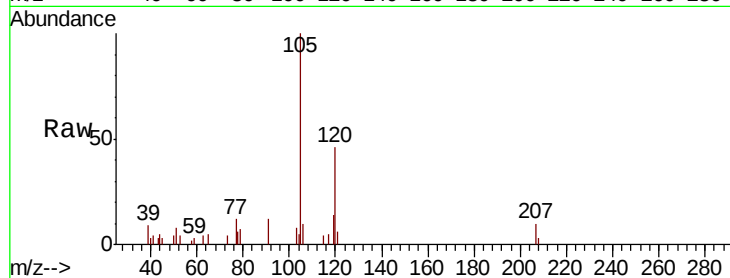
40748

Tot Ion:105 Resp: 10144

Ion Ratio Lower Upper

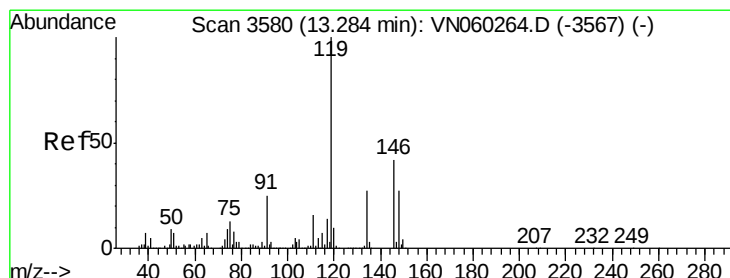
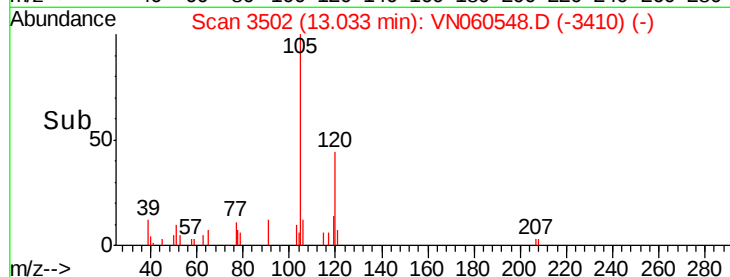
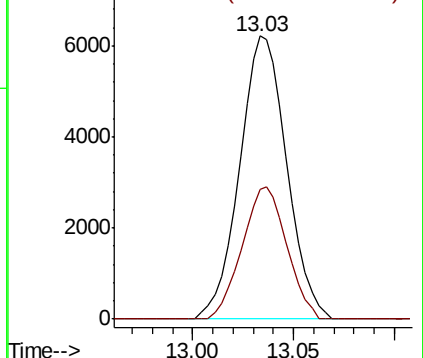
105 100

120 44.2 22.3 66.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#86

p-Isopropyltoluene

Concen: 0.249 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. 0.00 min

Lab File: VN060548.D

Acq: 17 Mar 2020 12:02

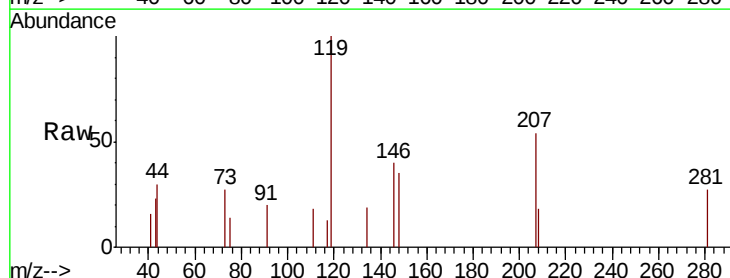
Tgt Ion:119 Resp: 1882

Ion Ratio Lower Upper

119 100

134 16.0 13.2 39.6

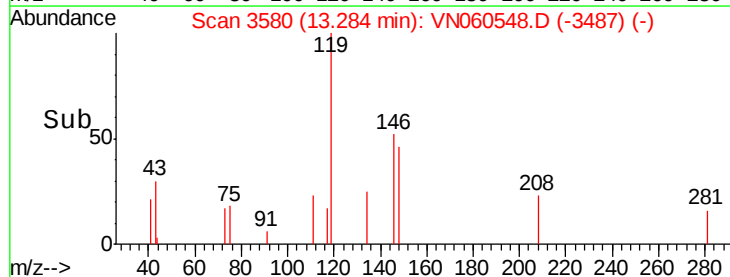
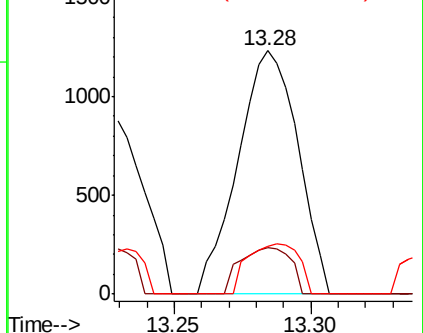
91 17.6 12.2 36.6

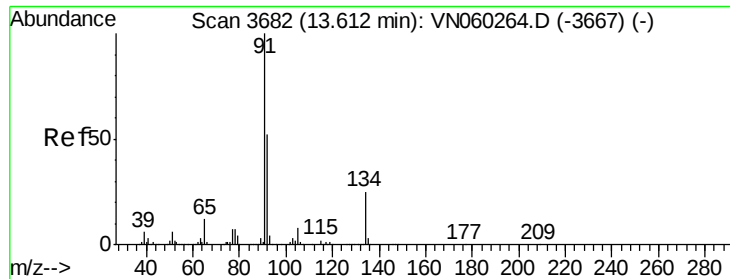


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

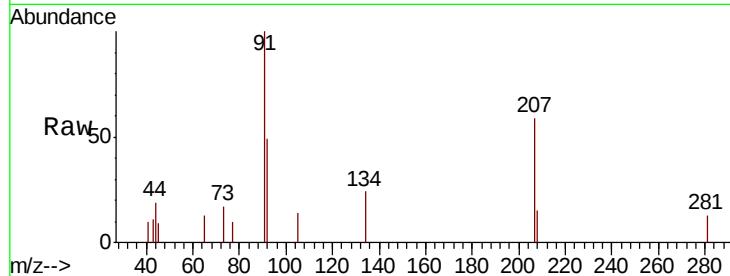




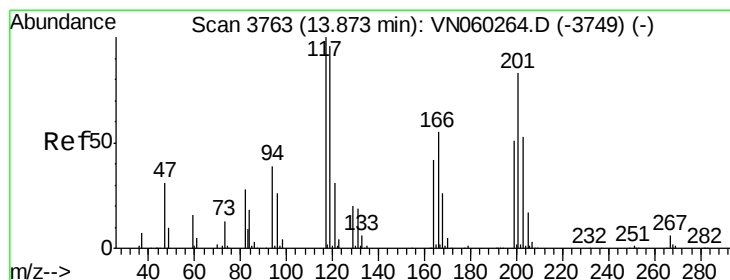
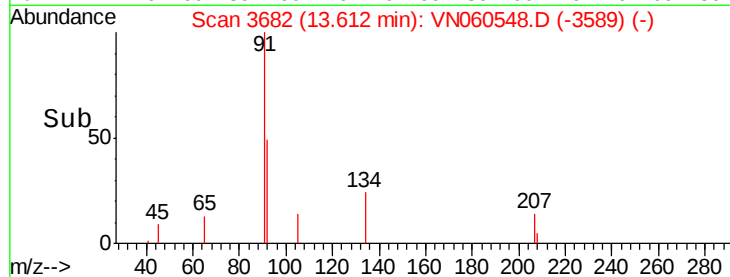
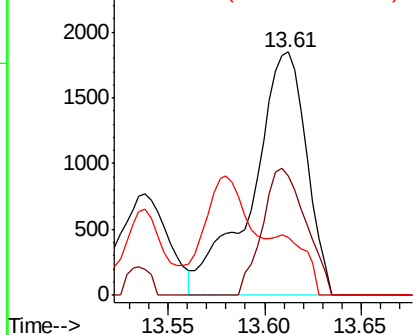
#89
n-Butylbenzene
Concen: 0.517 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. 0.00 min
Lab File: VN060548.D
Acq: 17 Mar 2020 12:02

Instrument :
MSVOA_N
ClientSampled :
40748

Tot Ion: 91 Resp: 3594
Ion Ratio Lower Upper
91 100
92 41.7 26.0 78.0
134 0.0 12.7 38.1#

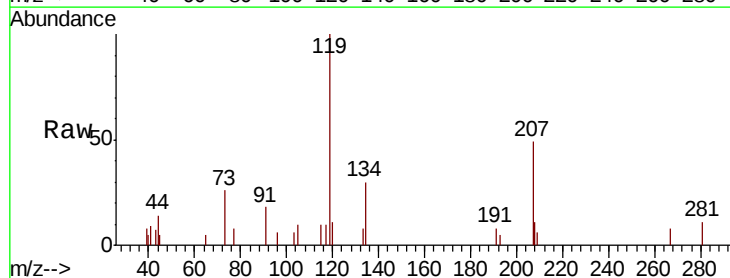


Abundance Ion 91.00 (90.70 to 91.70): VN0
Ion 92.00 (91.70 to 92.70): VN0
Ion 134.00 (133.70 to 134.70): V

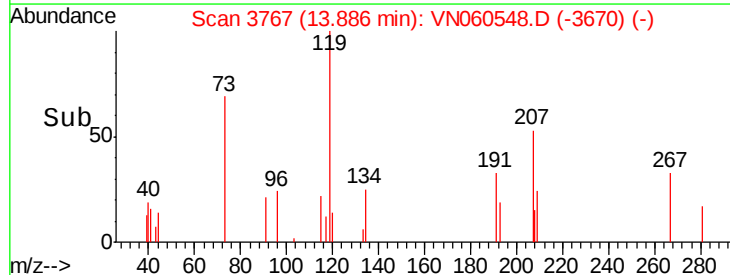
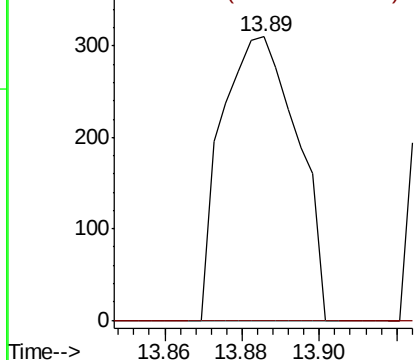


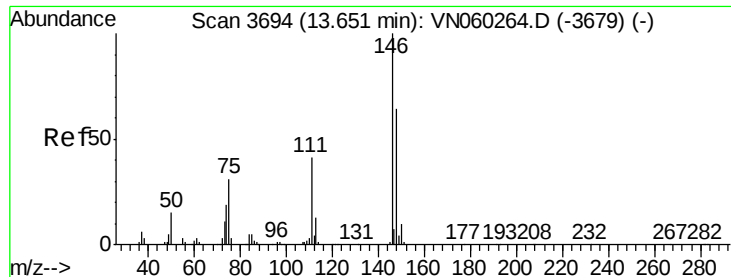
#90
Hexachloroethane
Concen: 0.384 ug/l
RT: 13.89 min Scan# 3767
Delta R.T. 0.01 min
Lab File: VN060548.D
Acq: 17 Mar 2020 12:02

Tgt Ion: 117 Resp: 421
Ion Ratio Lower Upper
117 100
201 0.0 41.0 123.0#



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 200.70 (200.40 to 201.40): V

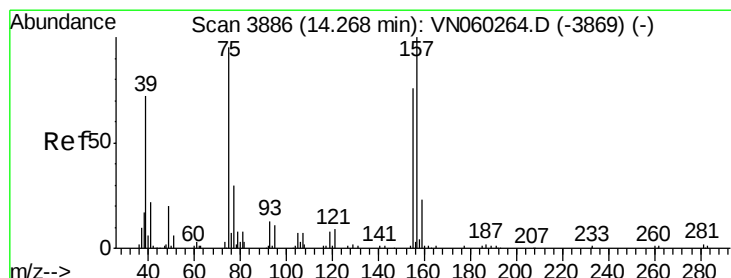
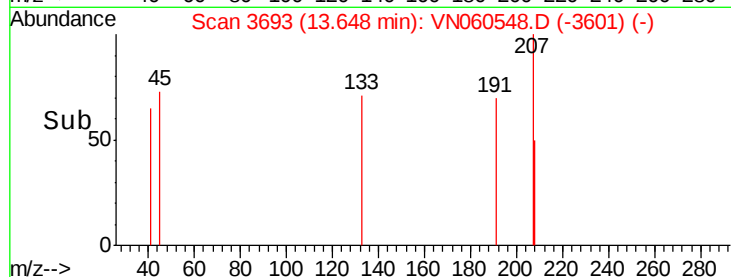
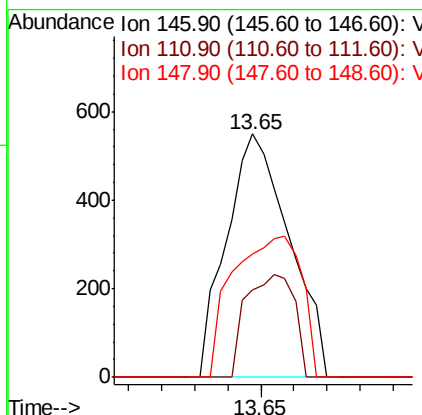
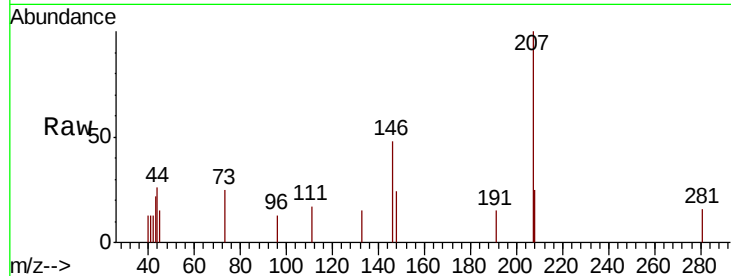




#91
 1,2-Dichlorobenzene
 Concen: 0.201 ug/l
 RT: 13.65 min Scan# 3693
 Delta R.T. -0.00 min
 Lab File: VN060548.D
 Acq: 17 Mar 2020 12:02

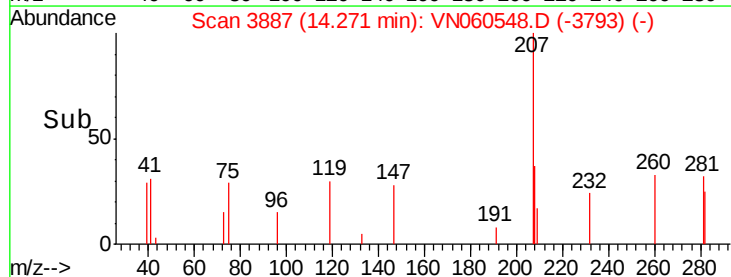
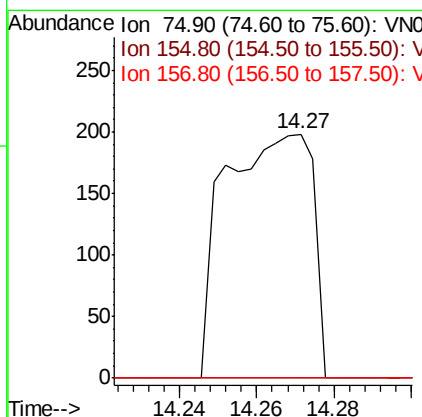
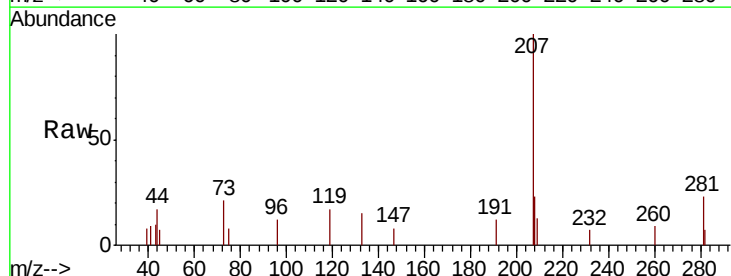
Instrument :
 MSVOA_N
 ClientSampleId :
 40748

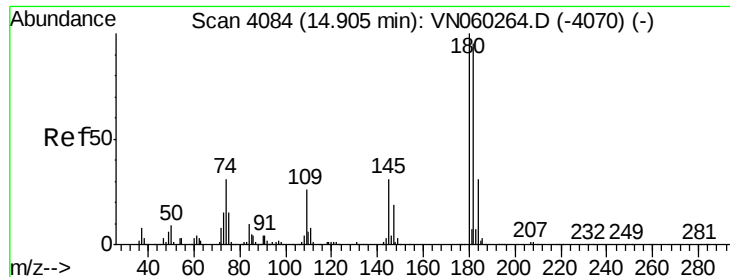
Tot Ion	Ratio	Lower	Upper
146	100		
111	32.0	20.3	61.0
148	63.1	31.8	95.3



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.605 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN060548.D
 Acq: 17 Mar 2020 12:02

Tgt Ion	Ratio	Lower	Upper
75	100		
155	0.0	40.4	121.2#
157	0.0	52.5	157.5#

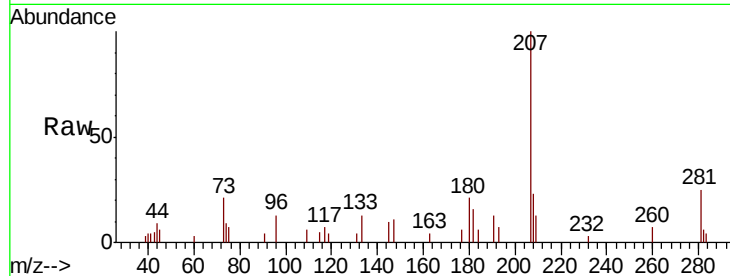




#93
 1,2,4-Trichlorobenzene
 Concen: 0.735 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN060548.D
 Acq: 17 Mar 2020 12:02

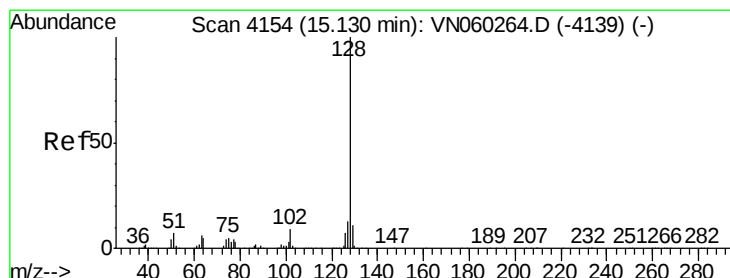
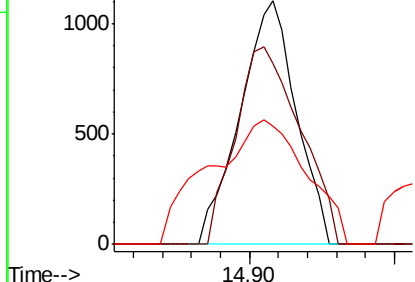
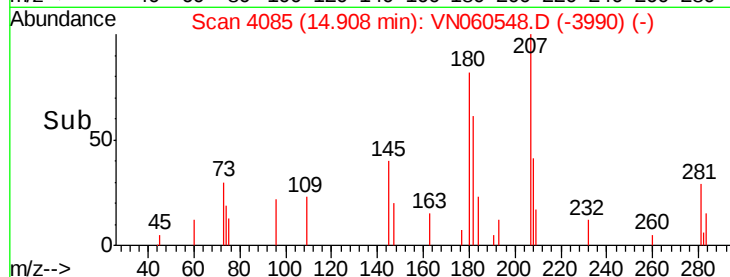
Instrument :
 MSVOA_N
 ClientSampled :
 40748

Tot Ion	Ratio	Lower	Upper
180	100		
182	93.5	47.8	143.3
145	88.7	15.4	46.1#



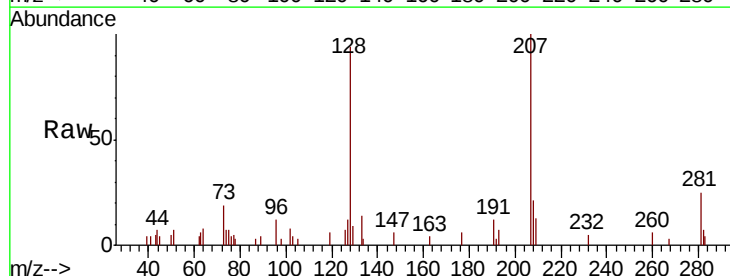
Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

14.91



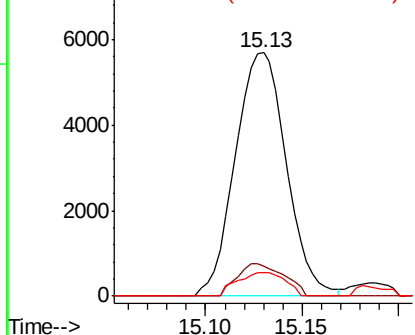
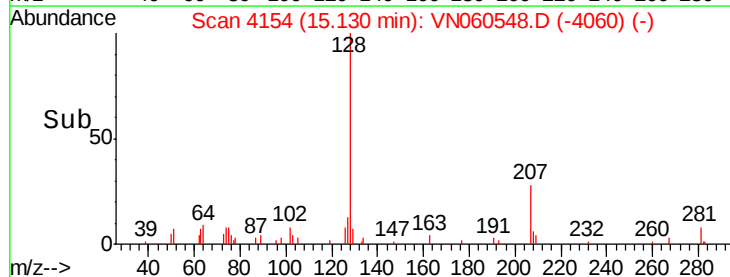
#95
 Naphthalene
 Concen: 1.288 ug/l
 RT: 15.13 min Scan# 4154
 Delta R.T. 0.00 min
 Lab File: VN060548.D
 Acq: 17 Mar 2020 12:02

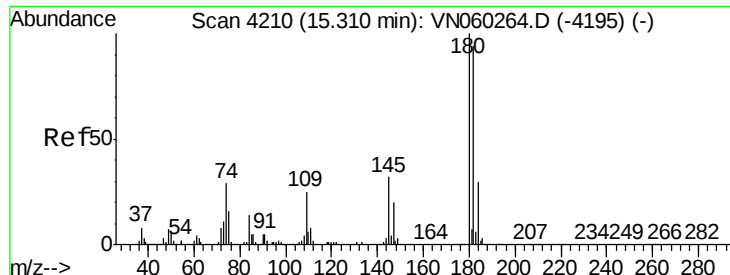
Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.2	10.4	15.6
129	9.0	8.6	13.0



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

15.13

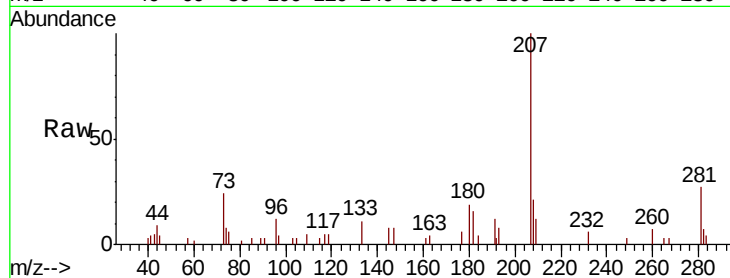




#96
 1,2,3-Trichlorobenzene
 Concen: 0.745 ug/l
 RT: 15.31 min Scan# 4209
 Delta R.T. -0.00 min
 Lab File: VN060548.D
 Acq: 17 Mar 2020 12:02

Instrument :
 MSVOA_N
 ClientSampleId :
 40748

Tot Ion	Ratio	Lower	Upper
180	100		
182	84.8	47.3	142.0
145	63.2	16.2	48.5



Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

