

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101520\
 Data File : VN064160.D
 Acq On : 15 Oct 2020 21:55
 Operator : JC/MD
 Sample : L4392-17
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 HACK-MH

Quant Time: Oct 16 02:29:33 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101420W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 15 01:16:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	283047	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	544839	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	585435	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	227545	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	227152	56.35	ug/l	0.00
Spiked Amount			Recovery	=	112.70%	
35) Dibromofluoromethane	7.55	113	190593	50.54	ug/l	0.00
Spiked Amount			Recovery	=	101.08%	
50) Toluene-d8	10.06	98	716890	50.38	ug/l	0.00
Spiked Amount			Recovery	=	100.76%	
62) 4-Bromofluorobenzene	12.38	95	255981	52.34	ug/l	0.00
Spiked Amount			Recovery	=	104.68%	

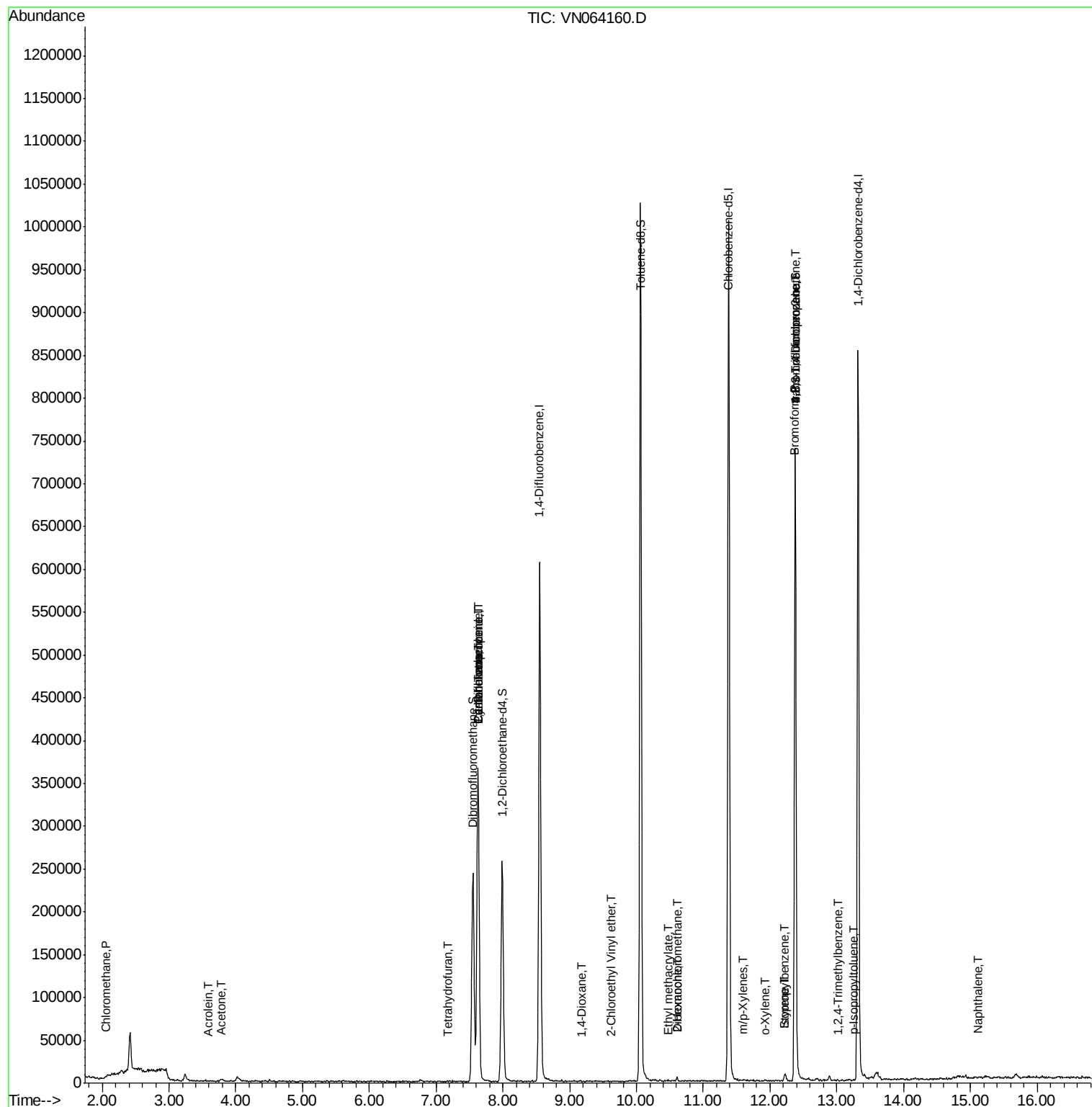
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	787	0.237	ug/l	91
13) Acrolein	3.58	56	96	0.262	ug/l #	15
16) Acetone	3.79	43	2734	2.286	ug/l #	81
29) Tetrahydrofuran	7.16	42	400	0.372	ug/l #	31
31) Cyclohexane	7.62	56	3991	0.896	ug/l #	9
36) 1,1-Dichloropropene	7.63	75	23210	4.420	ug/l #	46
38) Carbon Tetrachloride	7.62	117	29170	5.166	ug/l #	15
49) 1,4-Dioxane	9.18	88	68	1.254	ug/l #	1
56) Ethyl methacrylate	10.48	69	31	2.304	ug/l #	1
58) 2-Chloroethyl Vinyl ether	9.62	63	87	12.247	ug/l #	48
59) 2-Hexanone	10.62	43	166	6.883	ug/l	90
60) Dibromochloromethane	10.60	129	956	0.210	ug/l #	11
68) m/p-Xylenes	11.60	106	467	2.245	ug/l #	15
69) o-Xylene	11.93	106	201	1.607	ug/l	39
70) Styrene	12.22	104	68	2.041	ug/l #	1
71) Bromoform	12.36	173	376	2.323	ug/l #	30
73) Isopropylbenzene	12.23	105	5628	0.341	ug/l	97
76) 1,2,3-Trichloropropane	12.38	75	133691	25.044	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	133691	76.512	ug/l #	12
84) 1,2,4-Trimethylbenzene	13.02	105	281	0.205	ug/l	70
86) p-Isopropyltoluene	13.26	119	158	0.674	ug/l #	68
95) Naphthalene	15.11	128	667	3.853	ug/l #	83

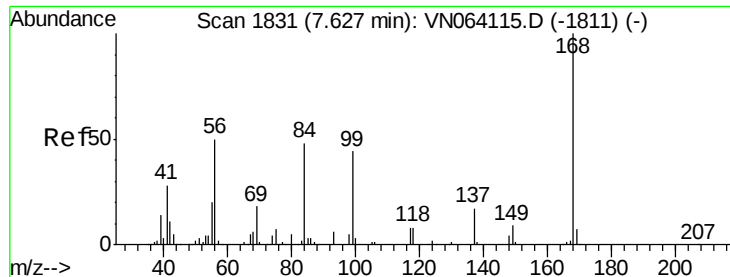
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Oct 15 01:16:44 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN064160.D

Acq: 15 Oct 2020 21:55

Instrument :

MSVOA_N

ClientSampleId :

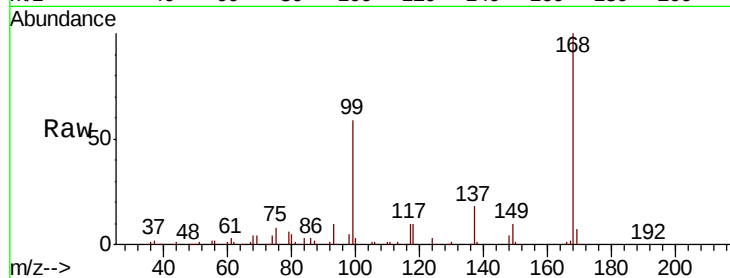
HACK-MH

Tot Ion:168 Resp: 283047

Ion Ratio Lower Upper

168 100

99 59.3 43.6 65.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

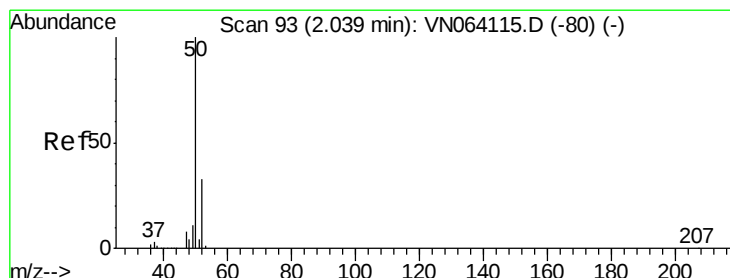
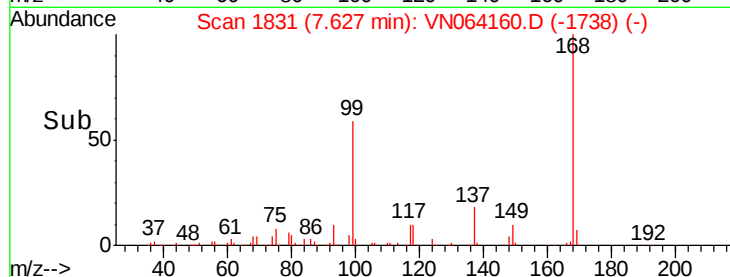
7.63

100000

50000

0

Time--> 7.50 7.55 7.60 7.65 7.70



#3

Chloromethane

Concen: 0.237 ug/l

RT: 2.04 min Scan# 93

Delta R.T. 0.00 min

Lab File: VN064160.D

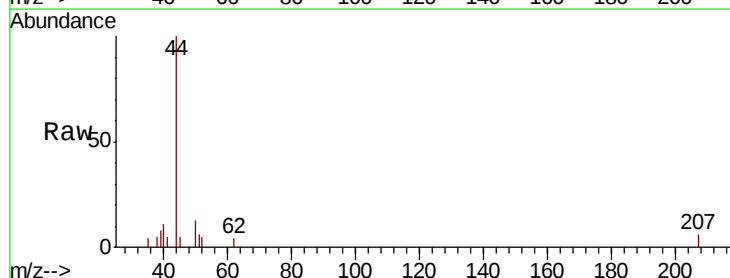
Acq: 15 Oct 2020 21:55

Tgt Ion: 50 Resp: 787

Ion Ratio Lower Upper

50 100

52 37.9 26.1 39.1



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.04

600

500

400

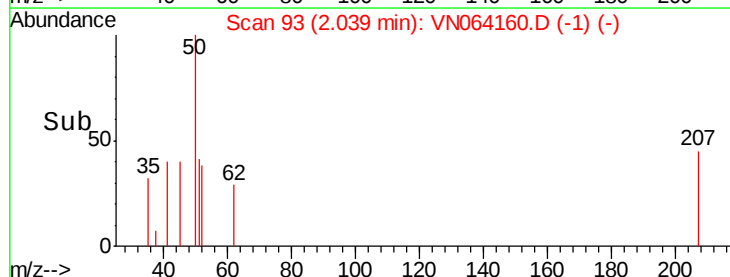
300

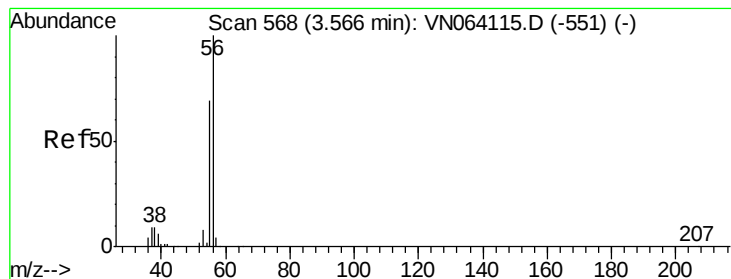
200

100

0

Time--> 2.02 2.04 2.06





#13

Acrolein

Concen: 0.262 ug/l

RT: 3.58 min Scan# 571

Delta R.T. 0.01 min

Lab File: VN064160.D

Acq: 15 Oct 2020 21:55

Instrument :

MSVOA_N

ClientSampleId :

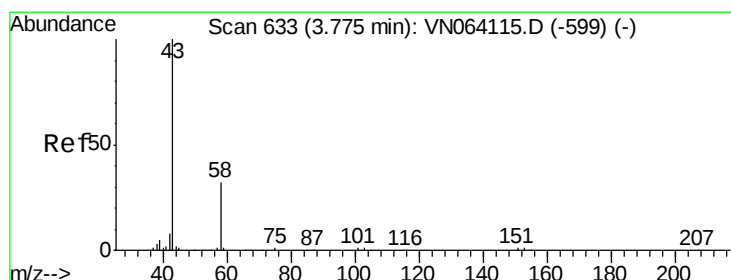
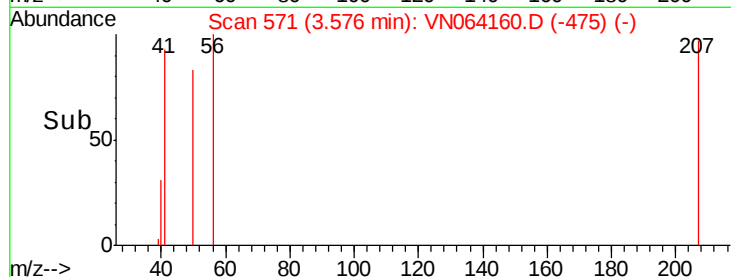
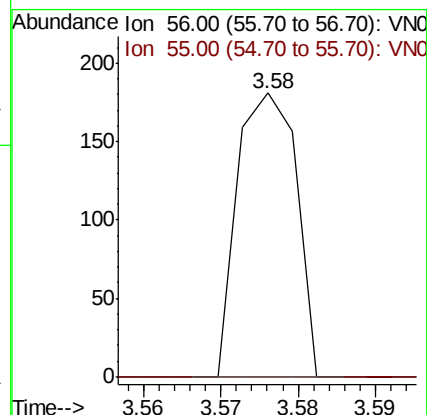
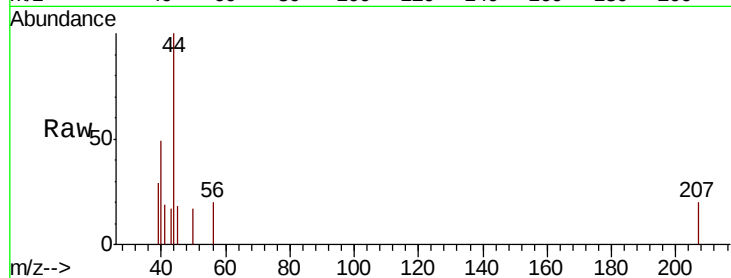
HACK-MH

Tot Ion: 56 Resp: 96

Ion Ratio Lower Upper

56 100

55 0.0 55.8 83.6#



#16

Acetone

Concen: 2.286 ug/l

RT: 3.79 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN064160.D

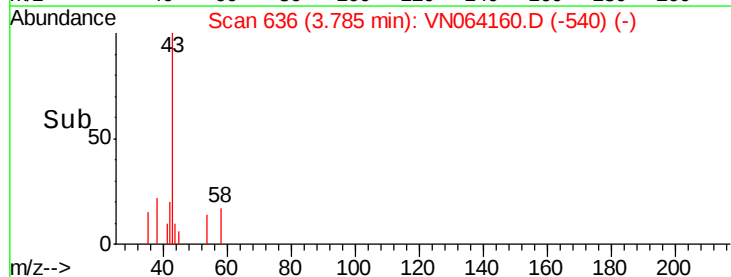
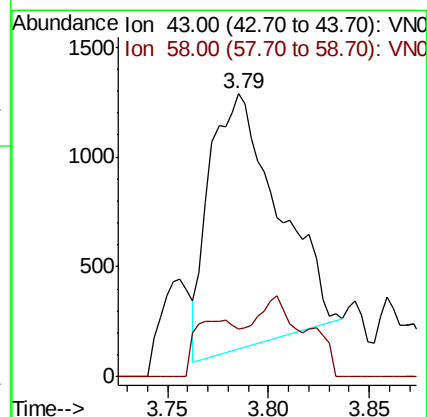
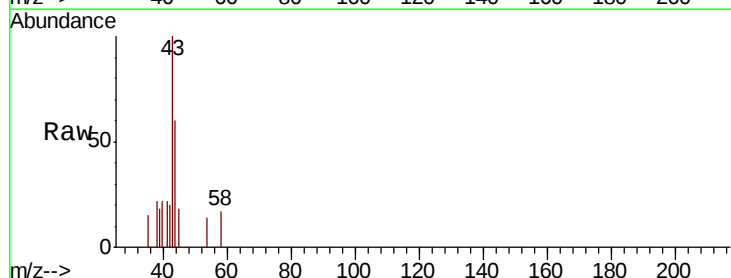
Acq: 15 Oct 2020 21:55

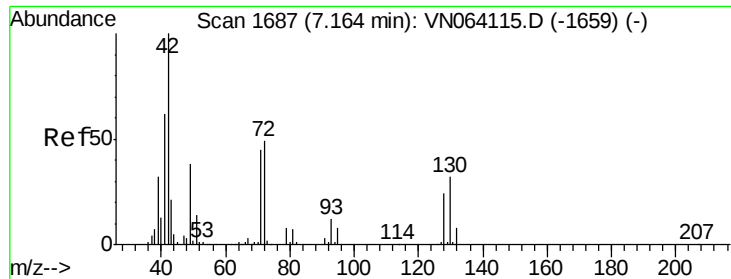
Tgt Ion: 43 Resp: 2734

Ion Ratio Lower Upper

43 100

58 21.1 25.2 37.8#





#29

Tetrahydrofuran

Concen: 0.372 ug/l

RT: 7.16 min Scan# 1686

Delta R.T. -0.00 min

Lab File: VN064160.D

Acq: 15 Oct 2020 21:55

Instrument :

MSVOA_N

ClientSampleId :

HACK-MH

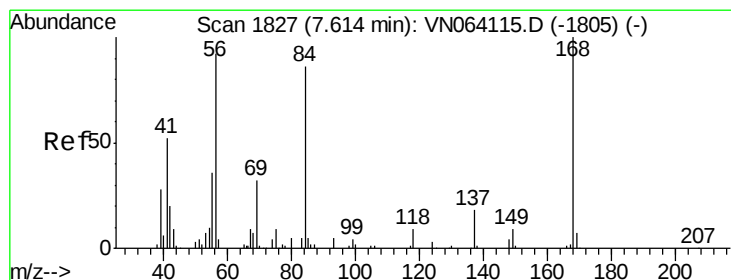
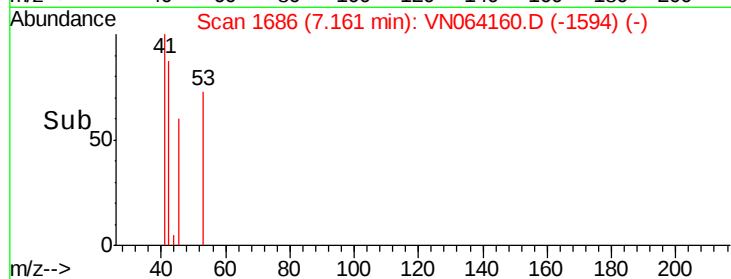
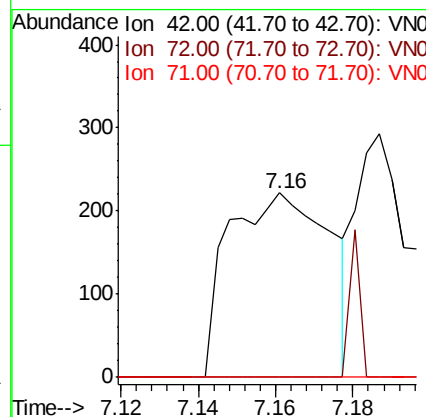
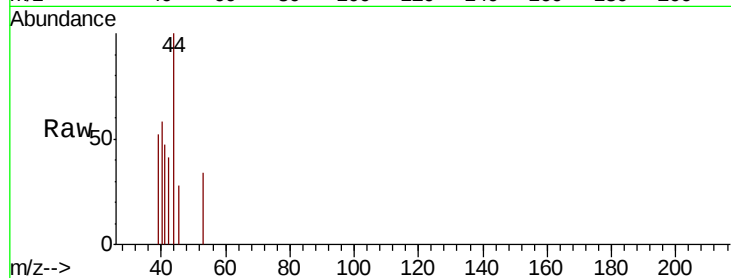
Tot Ion: 42 Resp: 400

Ion Ratio Lower Upper

42 100

72 0.0 37.8 56.6#

71 0.0 35.3 52.9#



#31

Cyclohexane

Concen: 0.896 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN064160.D

Acq: 15 Oct 2020 21:55

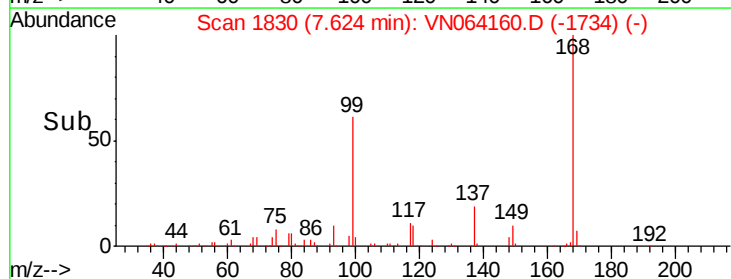
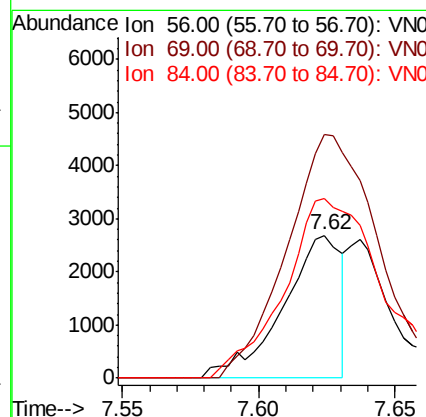
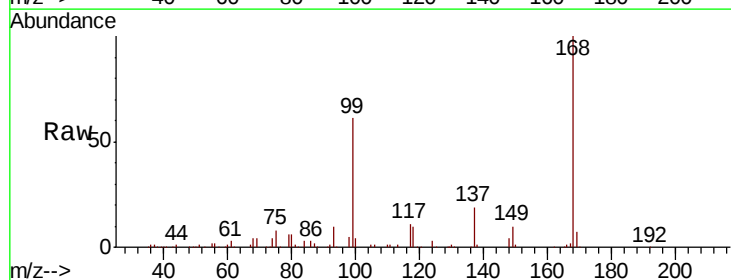
Tgt Ion: 56 Resp: 3991

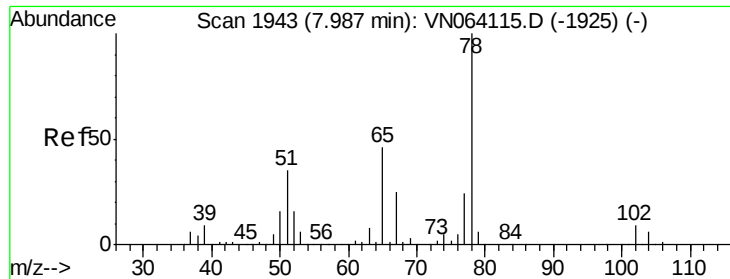
Ion Ratio Lower Upper

56 100

69 170.8 27.8 41.6#

84 125.8 73.2 109.8#

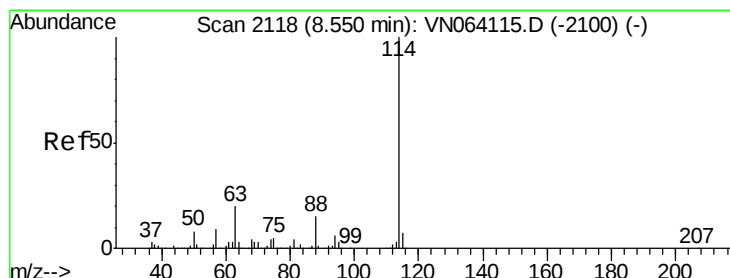
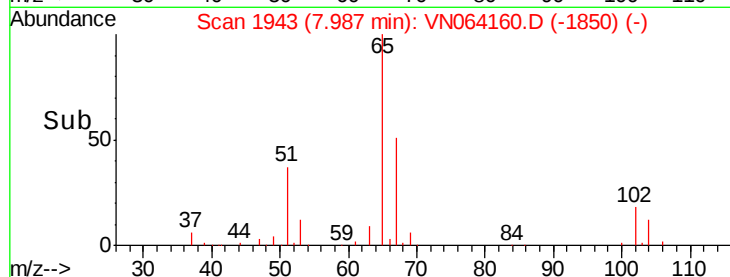
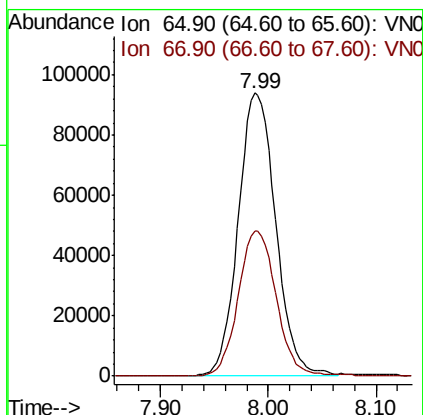
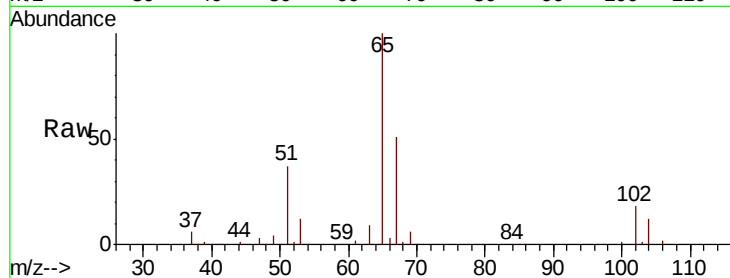




#33
 1,2-Dichloroethane-d4
 Concen: 56.349 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. 0.00 min
 Lab File: VN064160.D
 Acq: 15 Oct 2020 21:55

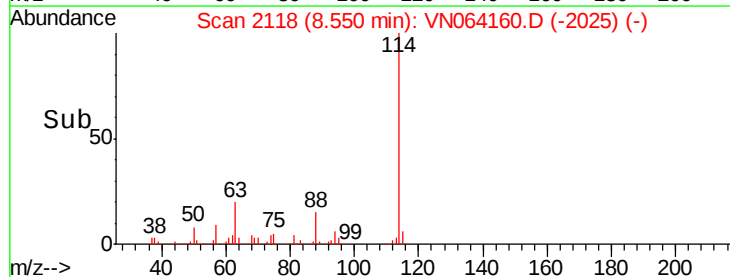
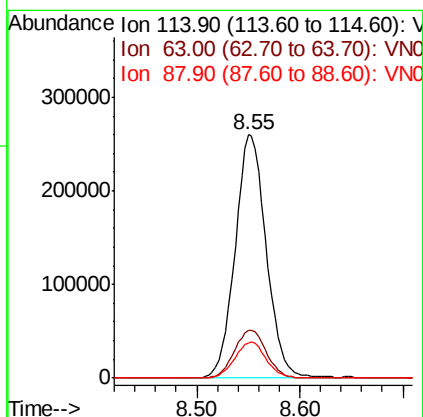
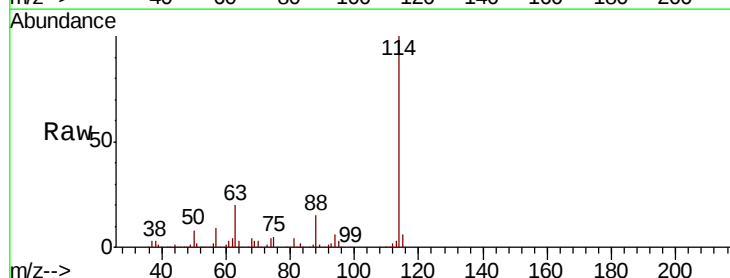
Instrument :
 MSVOA_N
 ClientSampleId :
 HACK-MH

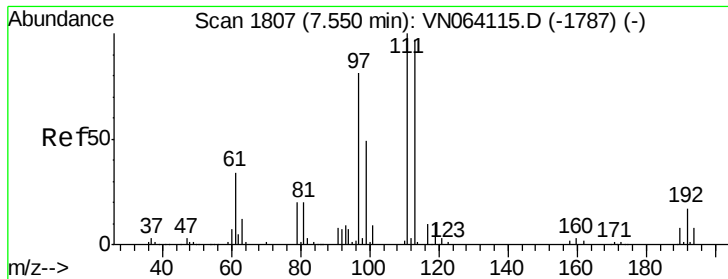
Tot Ion: 65 Resp: 227152
 Ion Ratio Lower Upper
 65 100
 67 52.2 0.0 105.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN064160.D
 Acq: 15 Oct 2020 21:55

Tgt Ion: 114 Resp: 544839
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 41.0
 88 14.6 0.0 29.2

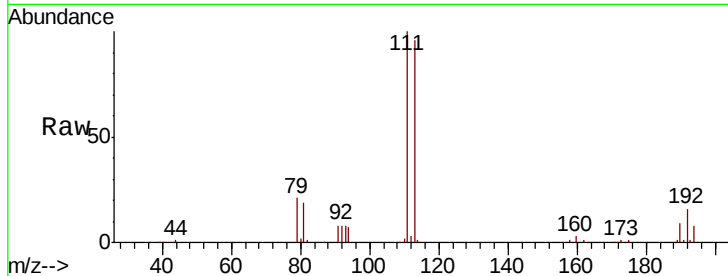




#35
Dibromofluoromethane
Concen: 50.540 ug/l
RT: 7.55 min Scan# 1808
Delta R.T. 0.00 min
Lab File: VN064160.D
Acq: 15 Oct 2020 21:55

Instrument :
MSVOA_N
ClientSampleId :
HACK-MH

Tot Ion	Ratio	Lower	Upper
113	100		
111	101.9	81.9	122.9
192	16.6	14.3	21.5

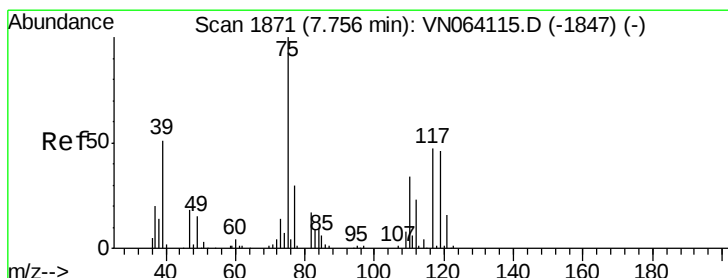
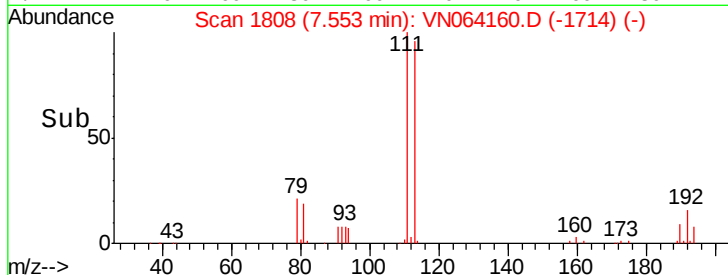
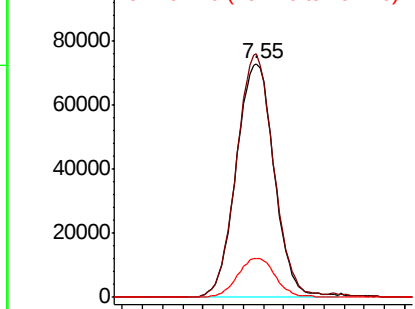


Abundance

Ion 112.80 (112.50 to 113.50): V

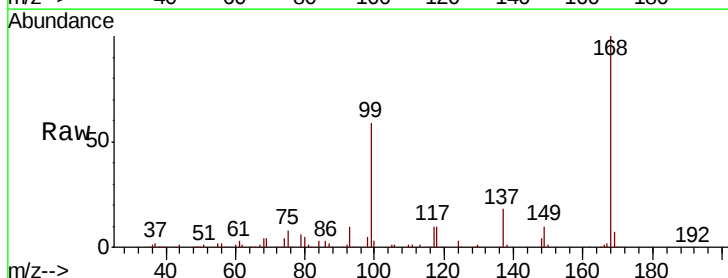
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36
1,1-Dichloropropene
Concen: 4.420 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. -0.13 min
Lab File: VN064160.D
Acq: 15 Oct 2020 21:55

Tgt Ion	Ratio	Lower	Upper
75	100		
110	5.1	17.8	53.3#
77	0.0	24.9	37.3#

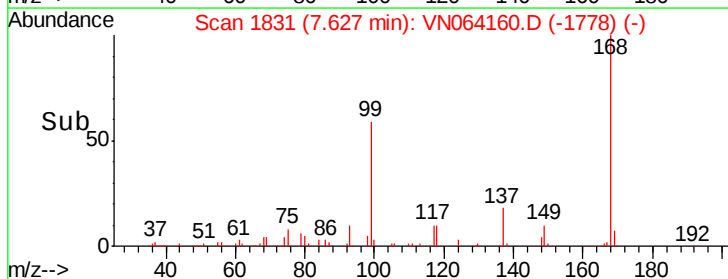
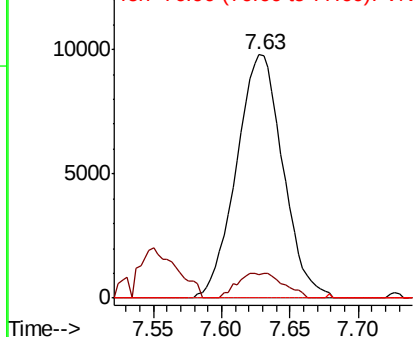


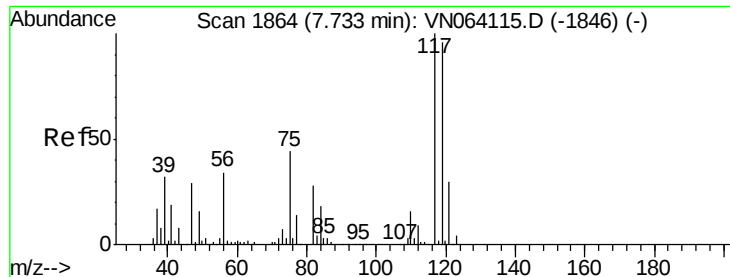
Abundance

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: 5.166 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN064160.D

Acq: 15 Oct 2020 21:55

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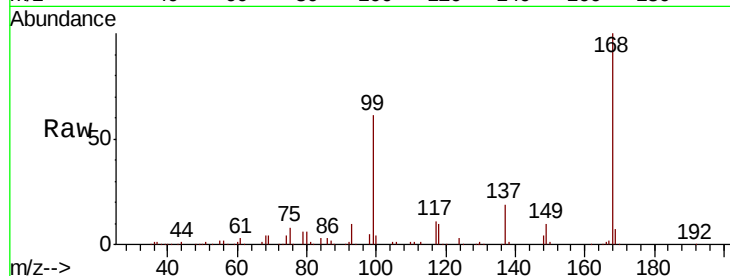
Tot Ion:117 Resp: 29170

Ion Ratio Lower Upper

117 100

119 3.8 77.0 115.4#

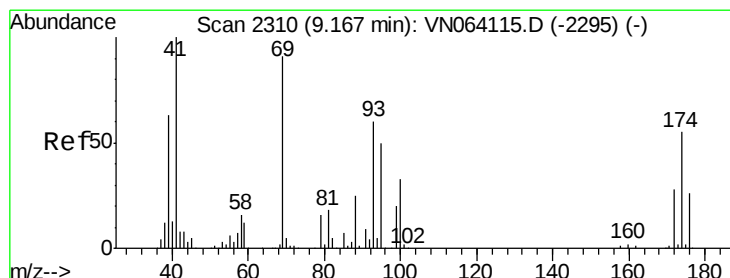
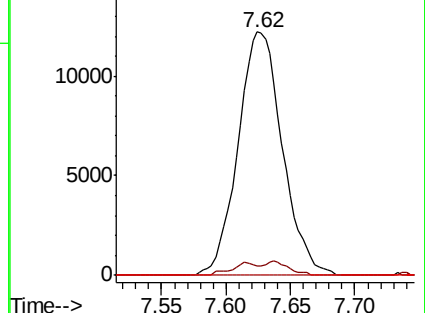
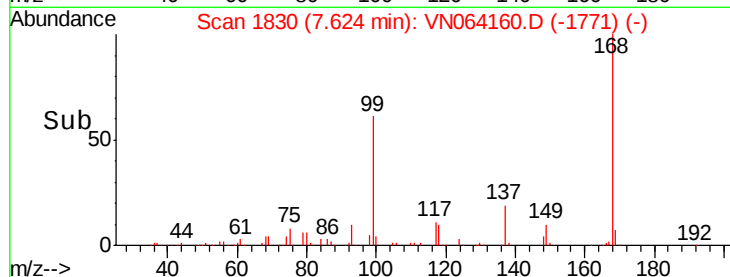
121 0.0 24.2 36.4#



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



#49

1,4-Dioxane

Concen: 1.254 ug/l

RT: 9.18 min Scan# 2315

Delta R.T. 0.02 min

Lab File: VN064160.D

Acq: 15 Oct 2020 21:55

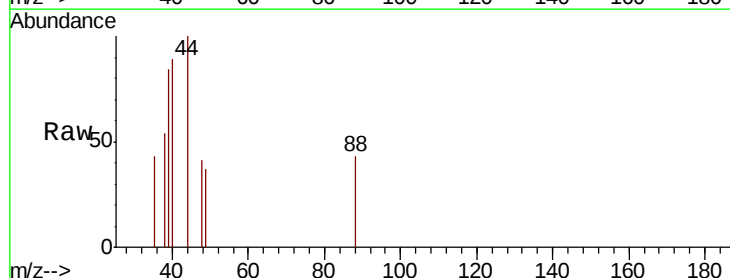
Tgt Ion: 88 Resp: 68

Ion Ratio Lower Upper

88 100

43 198.5 27.2 40.8#

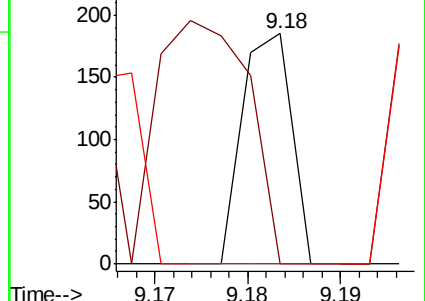
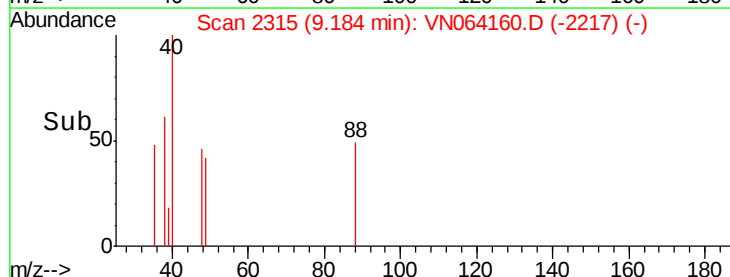
58 0.0 52.6 78.8#

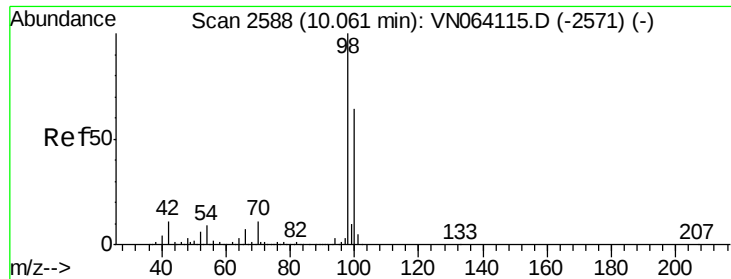


Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#50

Toluene-d8

Concen: 50.383 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN064160.D

Acq: 15 Oct 2020 21:55

Instrument :

MSVOA_N

ClientSampleId :

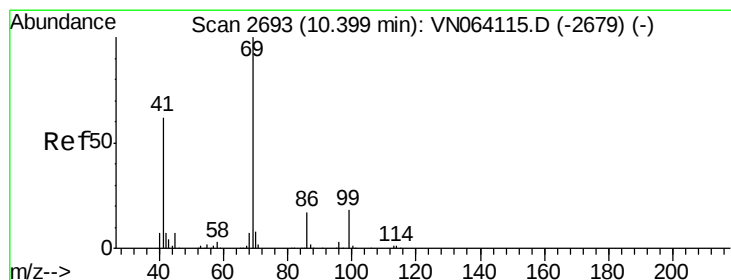
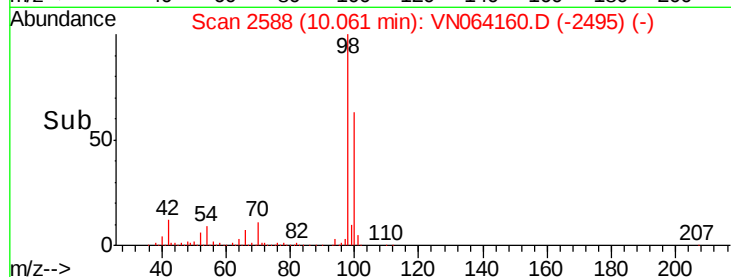
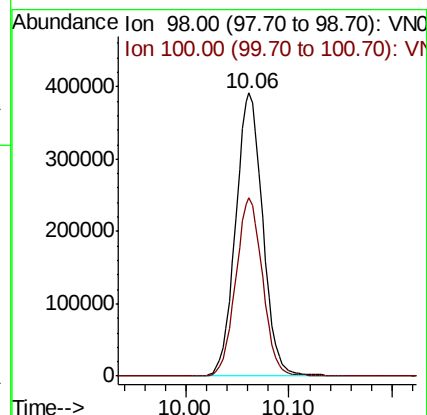
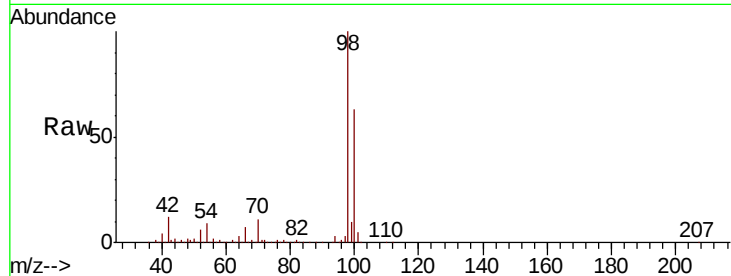
HACK-MH

Tot Ion: 98 Resp: 716890

Ion Ratio Lower Upper

98 100

100 62.5 50.8 76.2



#56

Ethyl methacrylate

Concen: 2.304 ug/l

RT: 10.48 min Scan# 2717

Delta R.T. 0.08 min

Lab File: VN064160.D

Acq: 15 Oct 2020 21:55

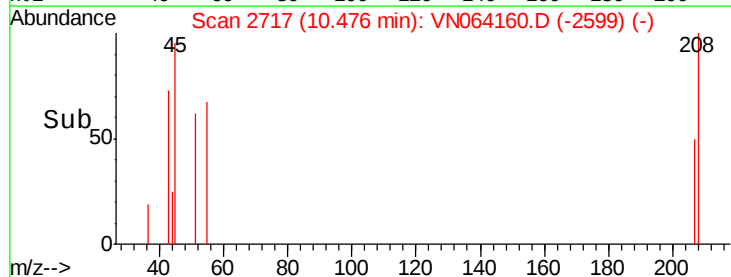
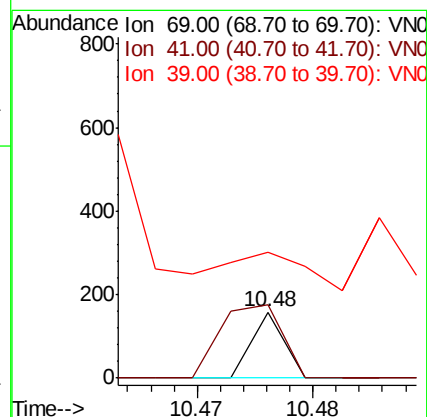
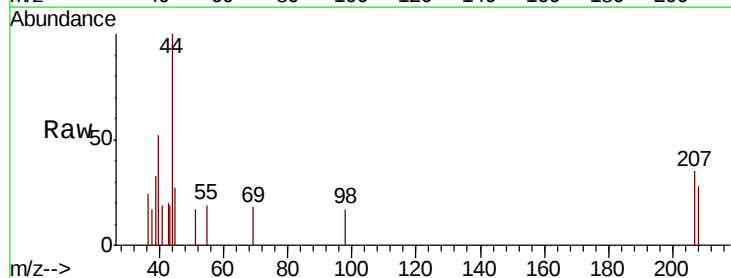
Tgt Ion: 69 Resp: 31

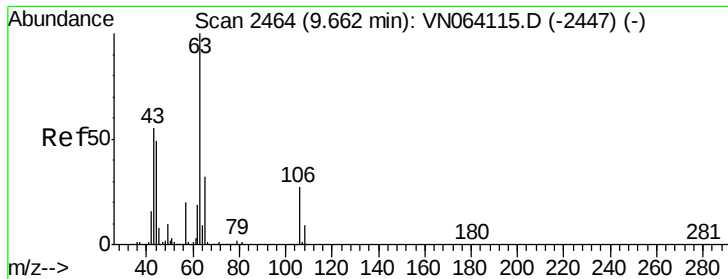
Ion Ratio Lower Upper

69 100

41 209.7 49.3 73.9#

39 296.8 32.7 49.1#

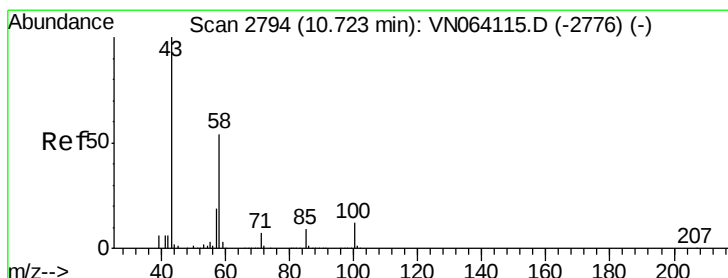
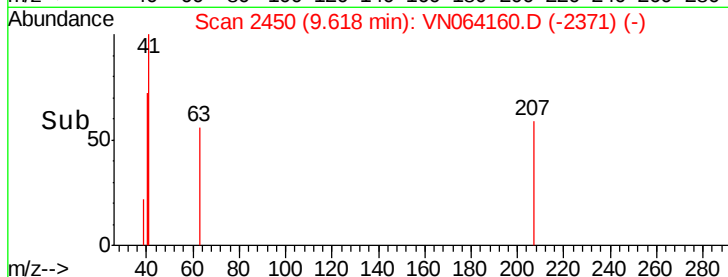
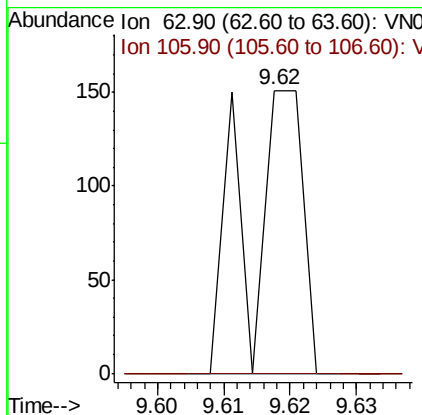
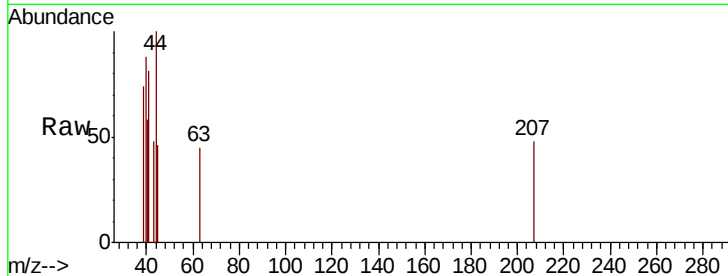




#58
 2-Chloroethyl Vinyl ether
 Concen: 12.247 ug/l
 RT: 9.62 min Scan# 2450
 Delta R.T. -0.04 min
 Lab File: VN064160.D
 Acq: 15 Oct 2020 21:55

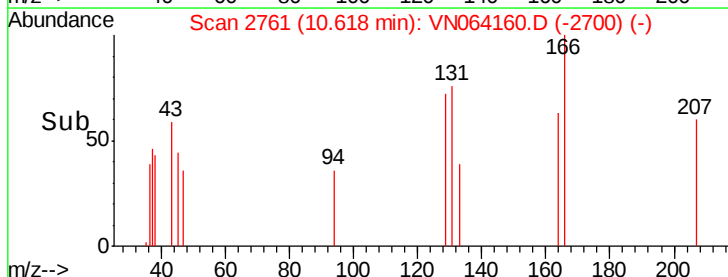
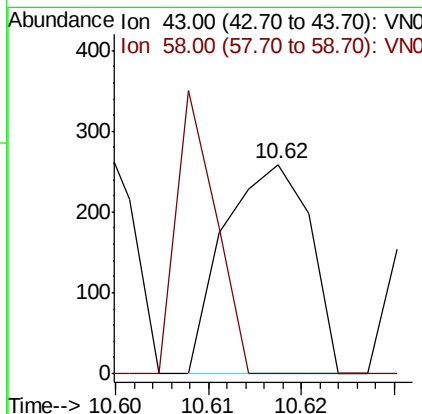
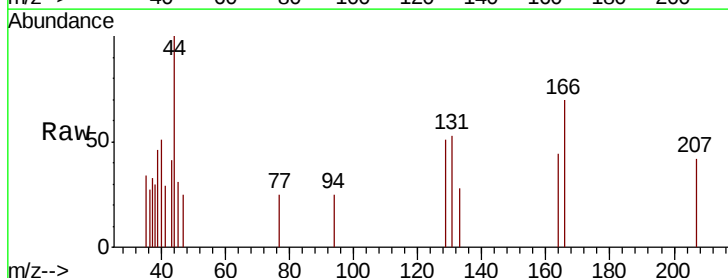
Instrument :
 MSVOA_N
 ClientSampled :
 HACK-MH

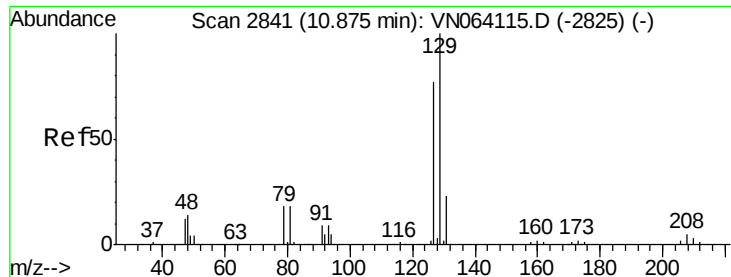
Tot Ion: 63 Resp: 87
 Ion Ratio Lower Upper
 63 100
 106 0.0 21.8 32.6#



#59
 2-Hexanone
 Concen: 6.883 ug/l
 RT: 10.62 min Scan# 2761
 Delta R.T. -0.11 min
 Lab File: VN064160.D
 Acq: 15 Oct 2020 21:55

Tgt Ion: 43 Resp: 166
 Ion Ratio Lower Upper
 43 100
 58 61.4 27.2 81.6

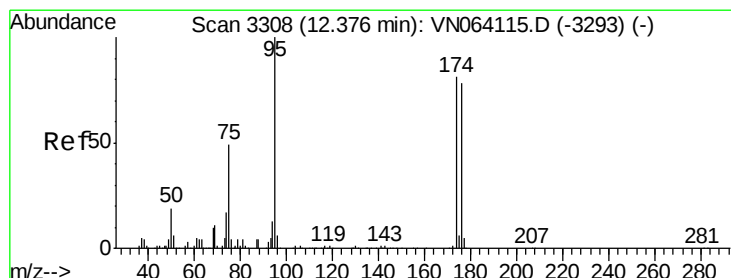
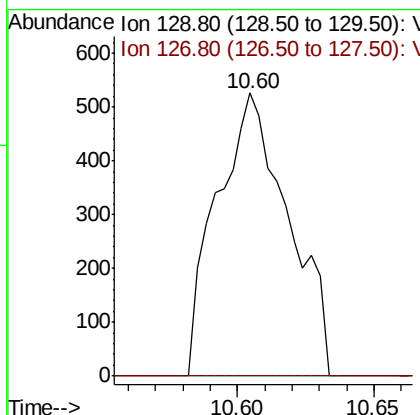
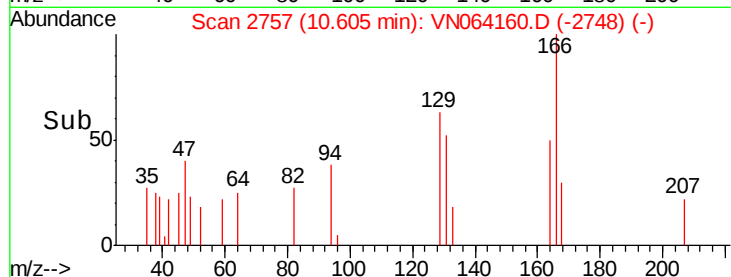
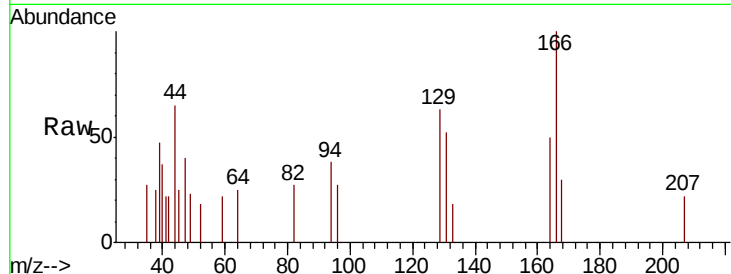




#60
Dibromochloromethane
Concen: 0.210 ug/l
RT: 10.60 min Scan# 2757
Delta R.T. -0.27 min
Lab File: VN064160.D
Acq: 15 Oct 2020 21:55

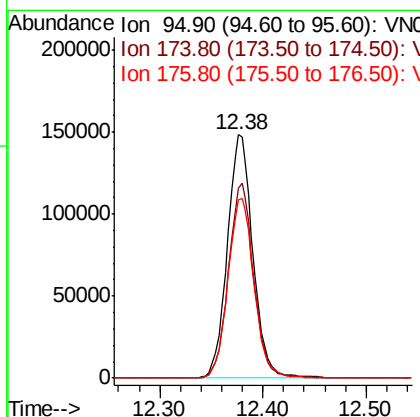
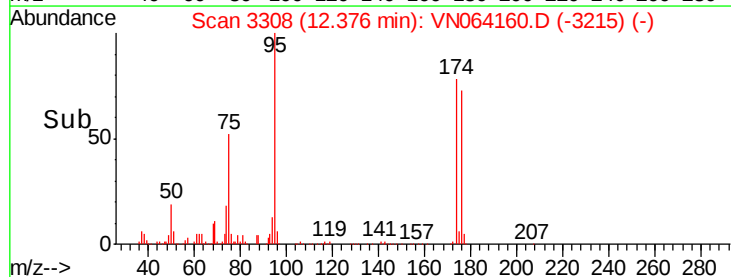
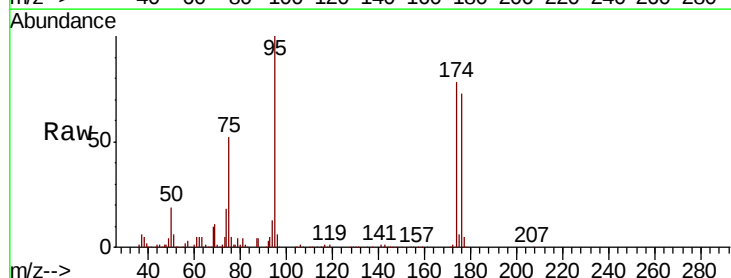
Instrument :
MSVOA_N
ClientSampleId :
HACK-MH

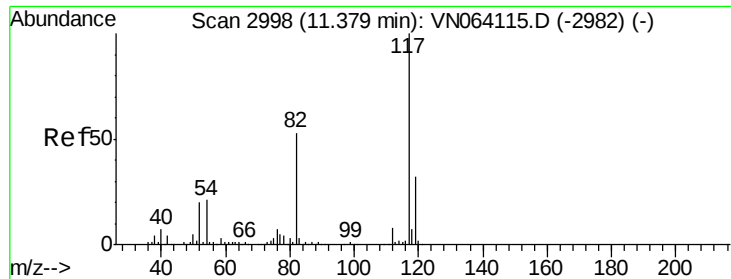
Tot Ion:129 Resp: 956
Ion Ratio Lower Upper
129 100
127 0.0 38.2 114.6#



#62
4-Bromofluorobenzene
Concen: 52.339 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN064160.D
Acq: 15 Oct 2020 21:55

Tgt Ion: 95 Resp: 255981
Ion Ratio Lower Upper
95 100
174 79.2 0.0 164.8
176 75.1 0.0 157.8

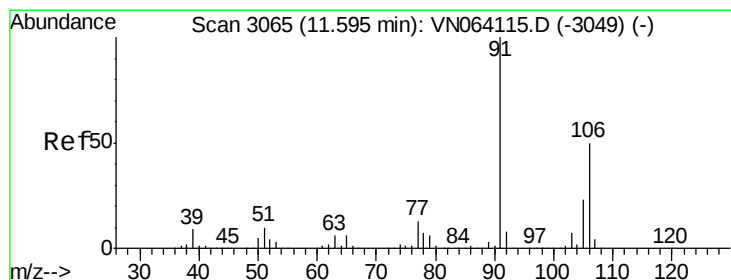
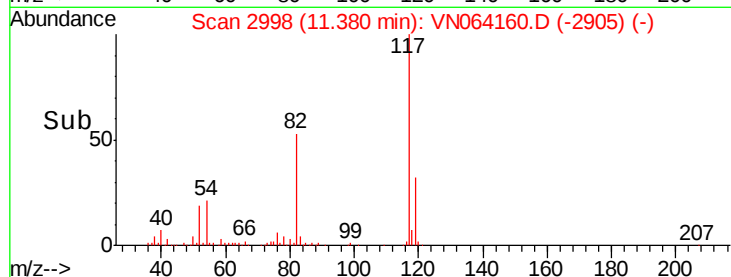
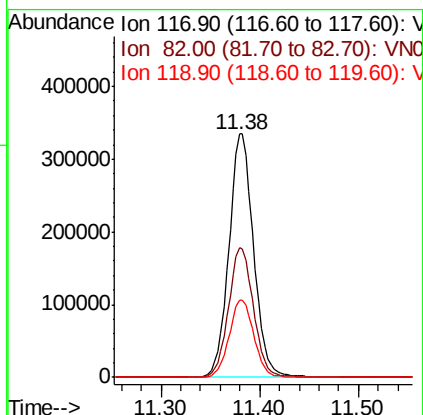
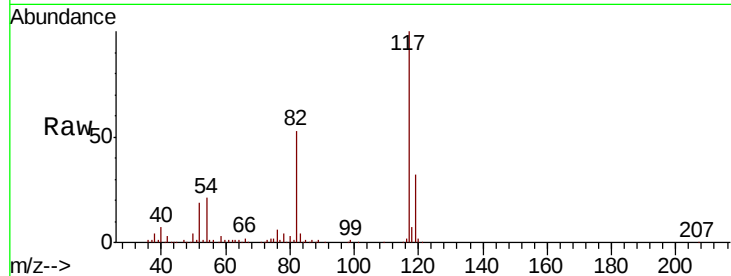




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN064160.D
Acq: 15 Oct 2020 21:55

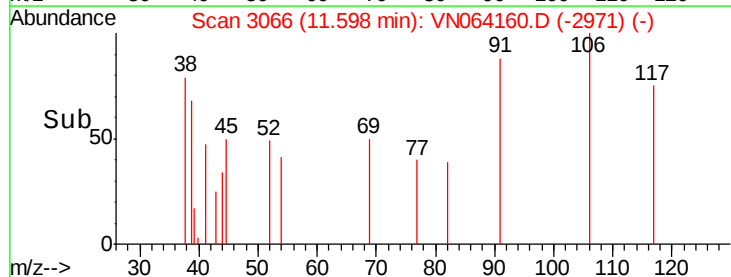
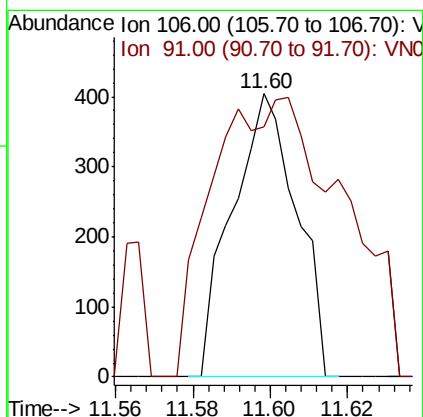
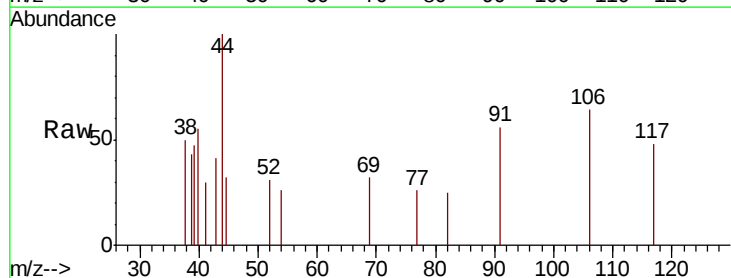
Instrument :
MSVOA_N
ClientSampleId :
HACK-MH

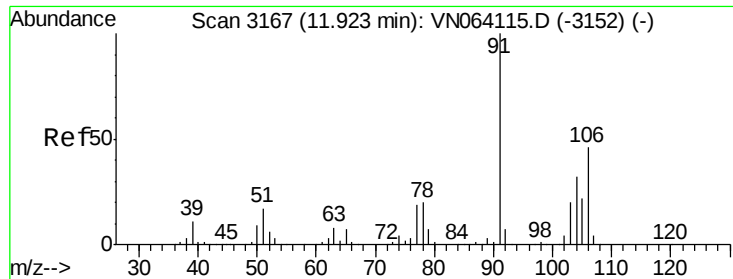
Tot Ion:117 Resp: 585435
Ion Ratio Lower Upper
117 100
82 53.3 42.6 63.8
119 31.6 25.5 38.3



#68
m/p-Xylenes
Concen: 2.245 ug/l
RT: 11.60 min Scan# 3066
Delta R.T. 0.00 min
Lab File: VN064160.D
Acq: 15 Oct 2020 21:55

Tgt Ion:106 Resp: 467
Ion Ratio Lower Upper
106 100
91 72.8 162.1 243.1#

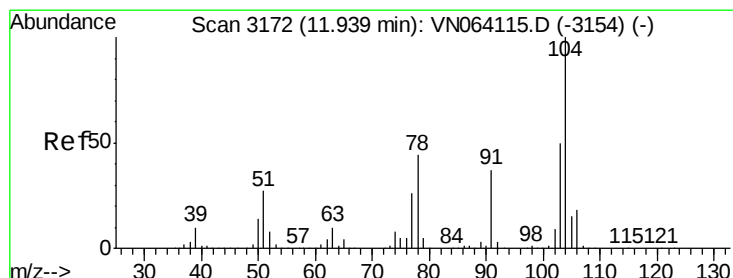
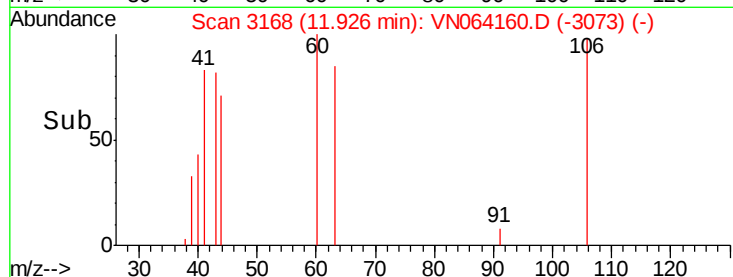
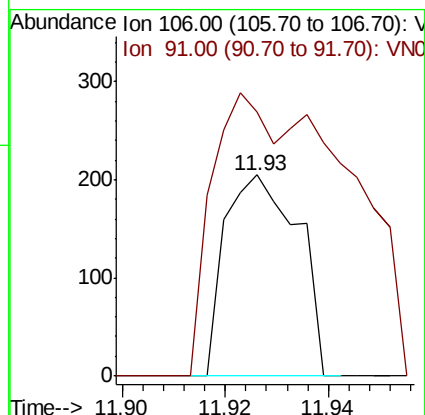
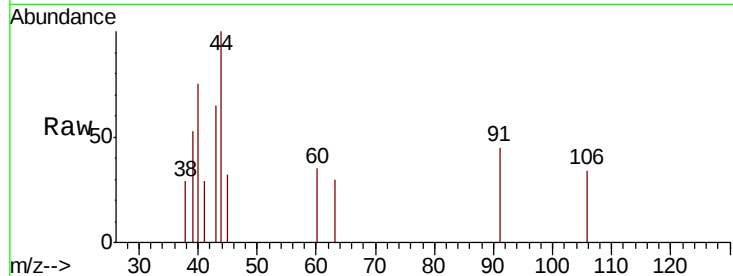




#69
o-Xylene
Concen: 1.607 ug/l
RT: 11.93 min Scan# 3168
Delta R.T. 0.00 min
Lab File: VN064160.D
Acq: 15 Oct 2020 21:55

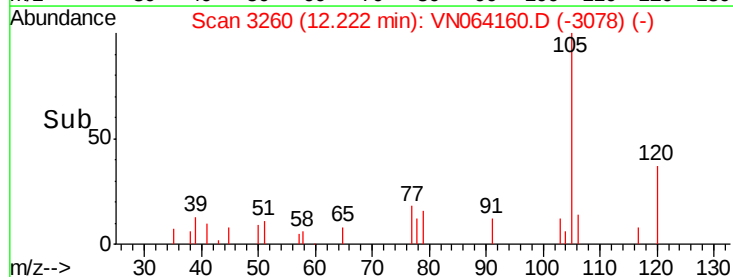
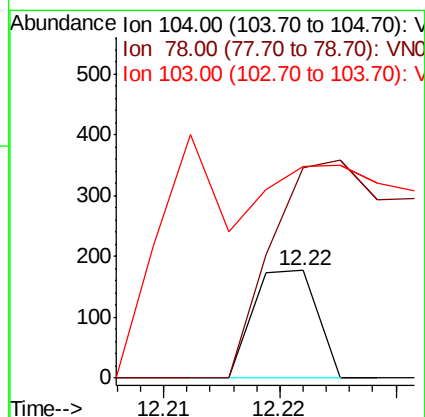
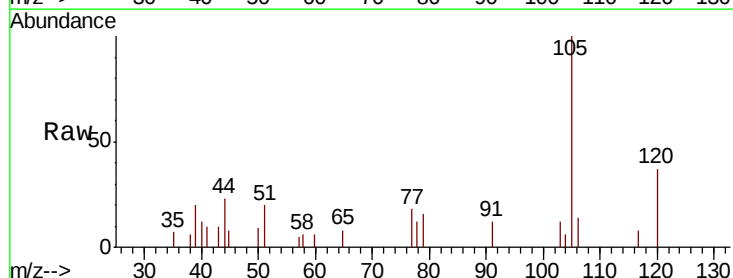
Instrument :
MSVOA_N
ClientSampled :
HACK-MH

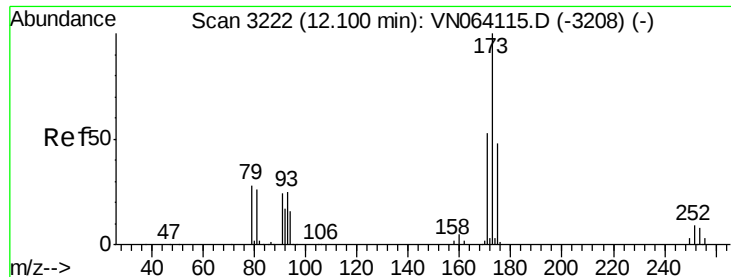
Tot Ion:106 Resp: 201
Ion Ratio Lower Upper
106 100
91 117.9 107.6 322.8



#70
Styrene
Concen: 2.041 ug/l
RT: 12.22 min Scan# 3260
Delta R.T. 0.28 min
Lab File: VN064160.D
Acq: 15 Oct 2020 21:55

Tgt Ion:104 Resp: 68
Ion Ratio Lower Upper
104 100
78 0.0 39.7 59.5#
103 244.1 44.2 66.2#





#71

Bromoform

Concen: 2.323 ug/l

RT: 12.36 min Scan# 3304

Delta R.T. 0.26 min

Lab File: VN064160.D

Acq: 15 Oct 2020 21:55

Instrument :

MSVOA_N

ClientSampleId :

HACK-MH

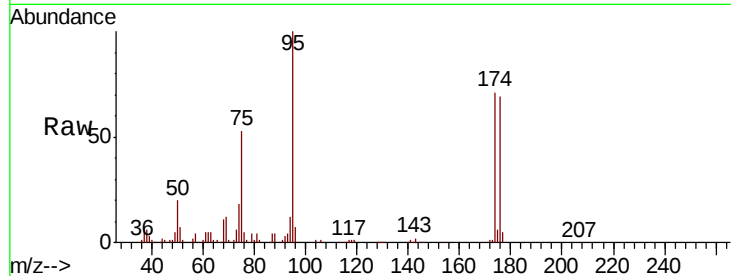
Tot Ion:173 Resp: 376

Ion Ratio Lower Upper

173 100

175 0.0 23.4 70.2#

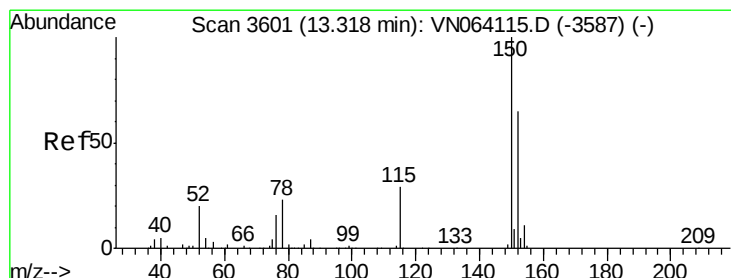
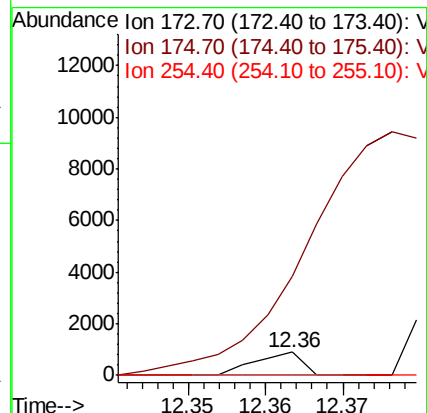
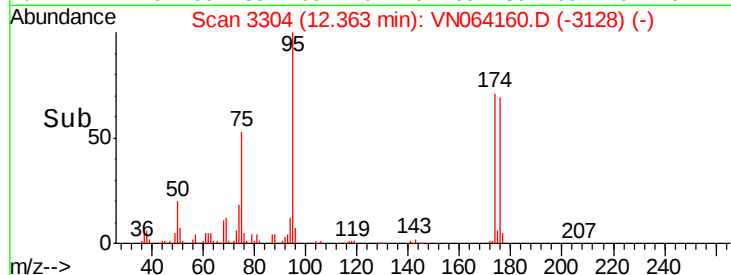
254 0.0 0.1 0.1#



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: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN064160.D

Acq: 15 Oct 2020 21:55

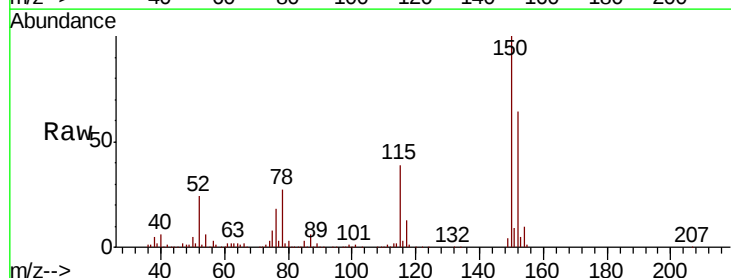
Tgt Ion:152 Resp: 227545

Ion Ratio Lower Upper

152 100

115 60.4 29.3 87.8

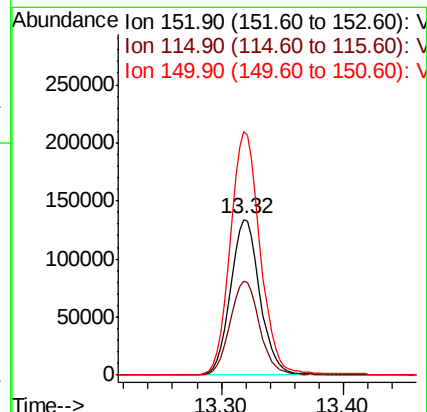
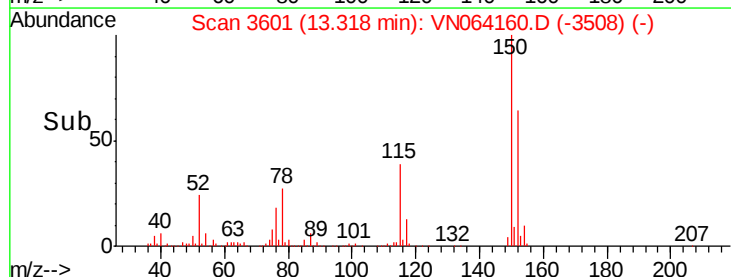
150 158.4 0.0 346.0

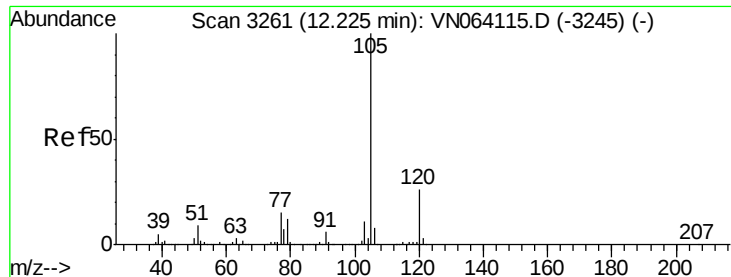


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 0.341 ug/l

RT: 12.23 min Scan# 3262

Delta R.T. 0.00 min

Lab File: VN064160.D

Acq: 15 Oct 2020 21:55

Instrument :

MSVOA_N

ClientSampled :

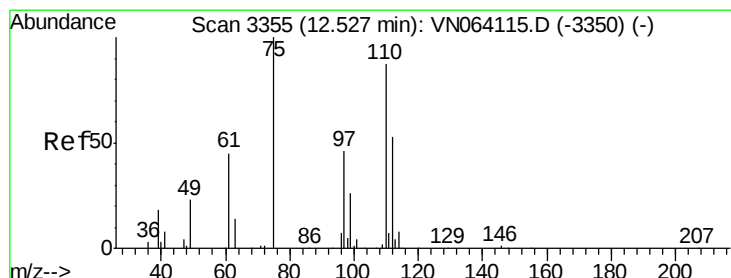
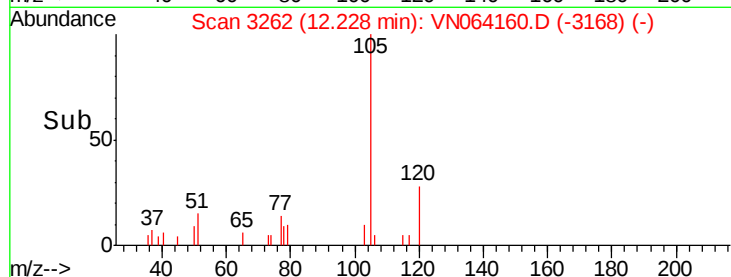
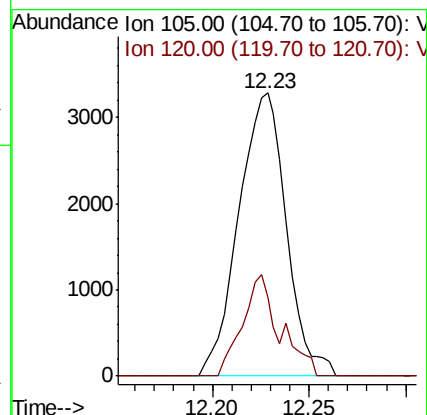
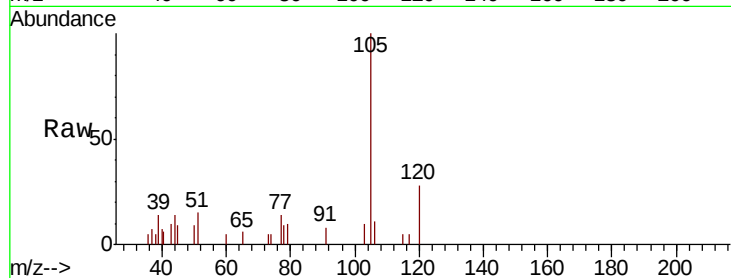
HACK-MH

Tot Ion:105 Resp: 5628

Ion Ratio Lower Upper

105 100

120 28.0 13.2 39.5



#76

1,2,3-Trichloropropane

Concen: 25.044 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064160.D

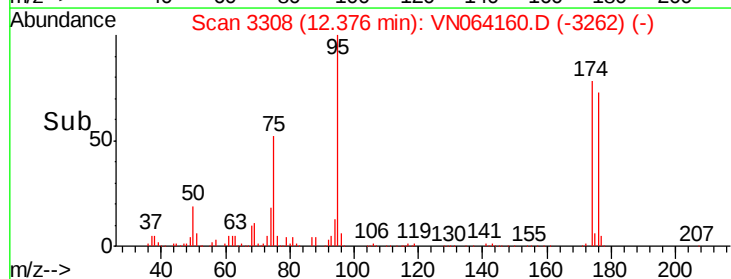
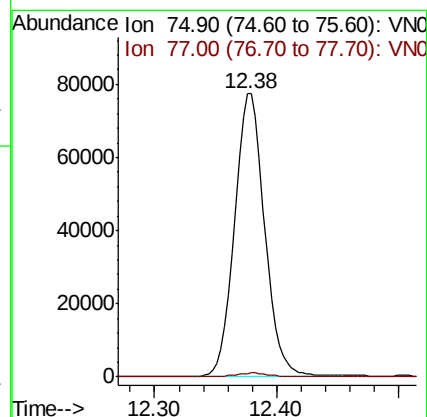
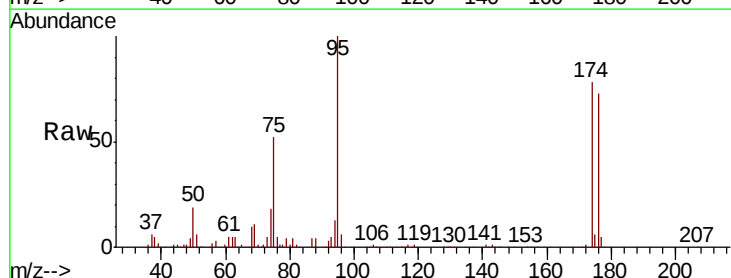
Acq: 15 Oct 2020 21:55

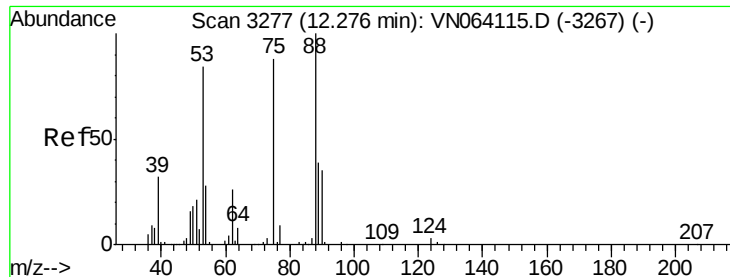
Tgt Ion: 75 Resp: 133691

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 76.512 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064160.D

Acq: 15 Oct 2020 21:55

Instrument :

MSVOA_N

ClientSampled :

HACK-MH

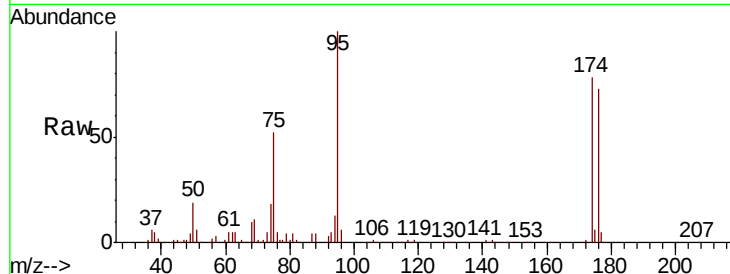
Tot Ion: 75 Resp: 133691

Ion Ratio Lower Upper

75 100

53 0.2 75.7 113.5#

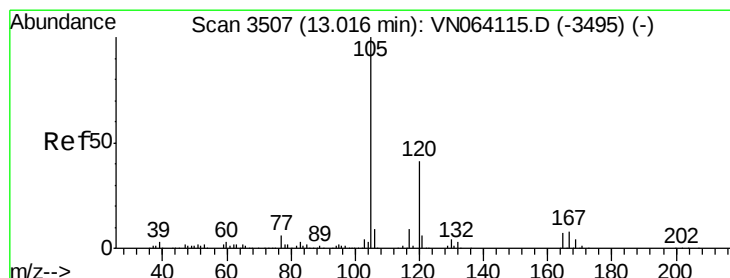
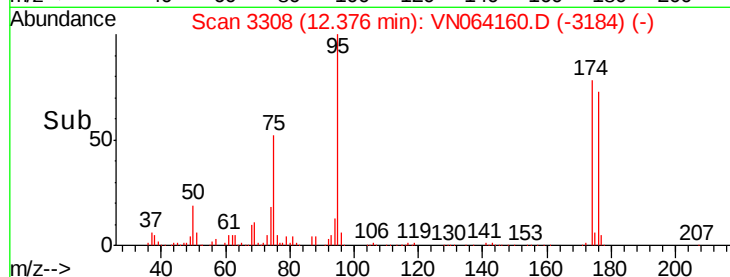
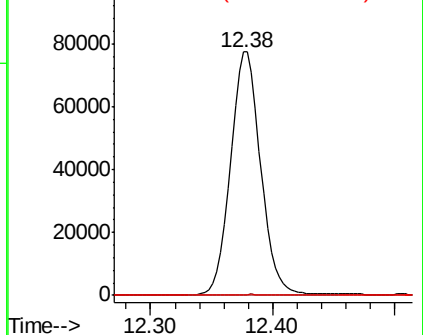
89 0.0 36.6 55.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#84

1,2,4-Trimethylbenzene

Concen: 0.205 ug/l

RT: 13.02 min Scan# 3509

Delta R.T. 0.01 min

Lab File: VN064160.D

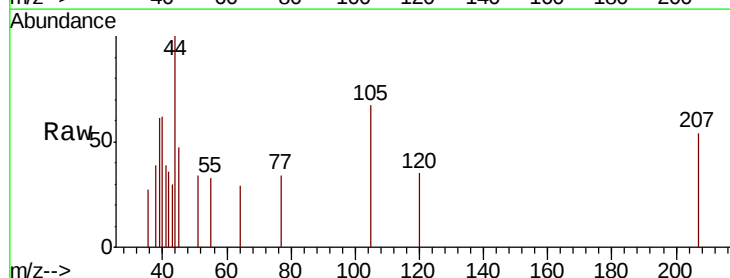
Acq: 15 Oct 2020 21:55

Tgt Ion: 105 Resp: 281

Ion Ratio Lower Upper

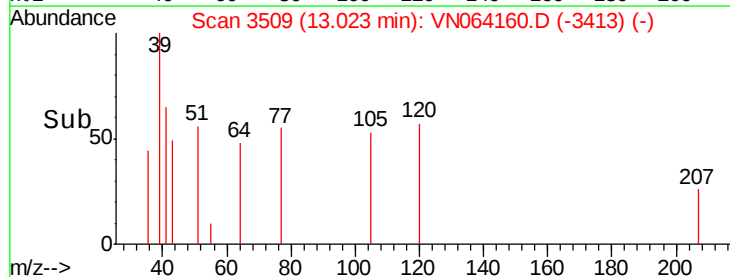
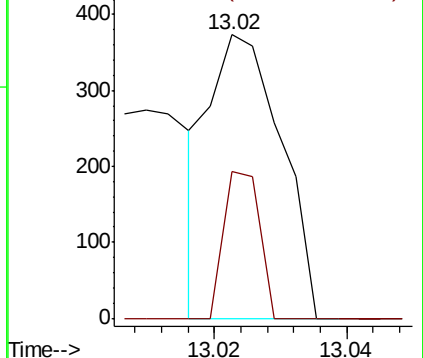
105 100

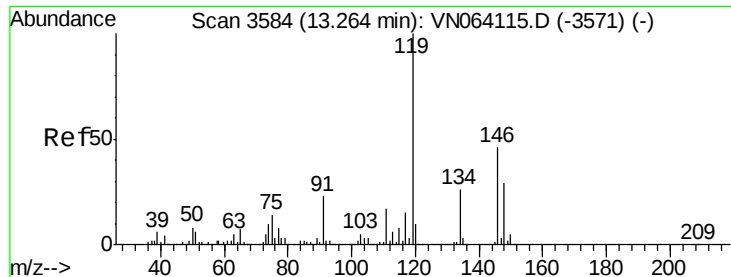
120 26.0 22.8 68.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#86

p-Isopropyltoluene

Concen: 0.674 ug/l

RT: 13.26 min Scan# 3582

Delta R.T. -0.01 min

Lab File: VN064160.D

Acq: 15 Oct 2020 21:55

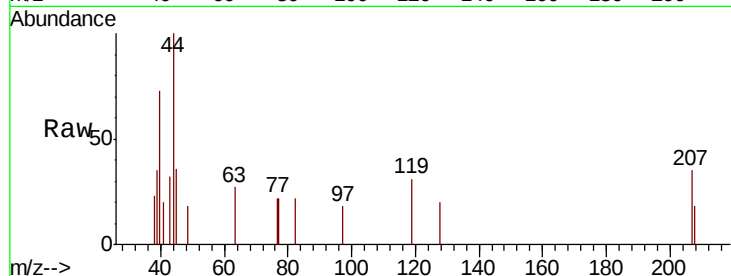
Instrument :

MSVOA_N

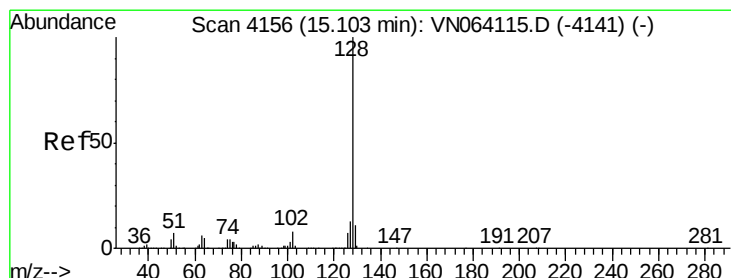
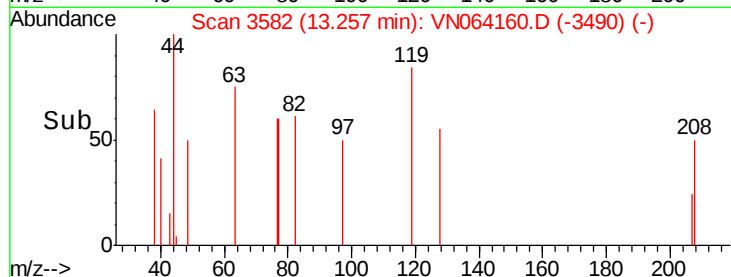
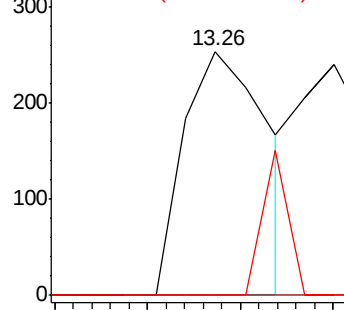
ClientSampleId :

HACK-MH

Tot Ion:	119	Resp:	158
Ion	Ratio	Lower	Upper
119	100		
134	0.0	13.2	39.5#
91	18.4	12.0	36.1



Abundance Ion 119.00 (118.70 to 119.70): V



#95

Naphthalene

Concen: 3.853 ug/l

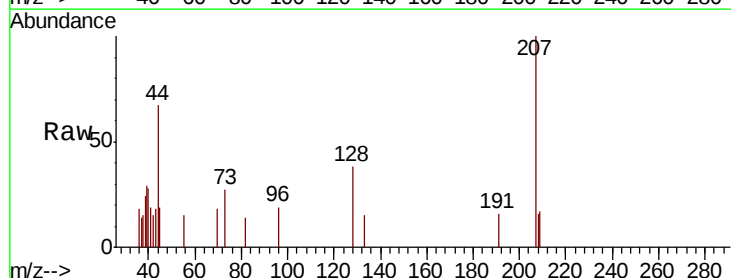
RT: 15.11 min Scan# 4158

Delta R.T. 0.01 min

Lab File: VN064160.D

Acq: 15 Oct 2020 21:55

Tgt Ion:	128	Resp:	667
Ion	Ratio	Lower	Upper
128	100		
127	10.0	10.2	15.4#
129	0.0	8.5	12.7#



Abundance Ion 128.00 (127.70 to 128.70): V

