

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031219\
 Data File : VN054197.D
 Acq On : 13 Mar 2019 6:59
 Operator : JC/SP
 Sample : K1837-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MR-MH-10-COMP

Quant Time: Mar 13 07:37:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 13 03:33:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1366248	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2369244	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2561746	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	1195027	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	785001	54.10	ug/l	0.00
Spiked Amount			Recovery	=	108.20%	
35) Dibromofluoromethane	7.59	113	731723	47.89	ug/l	0.00
Spiked Amount			Recovery	=	95.78%	
50) Toluene-d8	10.09	98	2972068	52.66	ug/l	0.00
Spiked Amount			Recovery	=	105.32%	
62) 4-Bromofluorobenzene	12.40	95	1205340	61.04	ug/l	0.00
Spiked Amount			Recovery	=	122.08%	

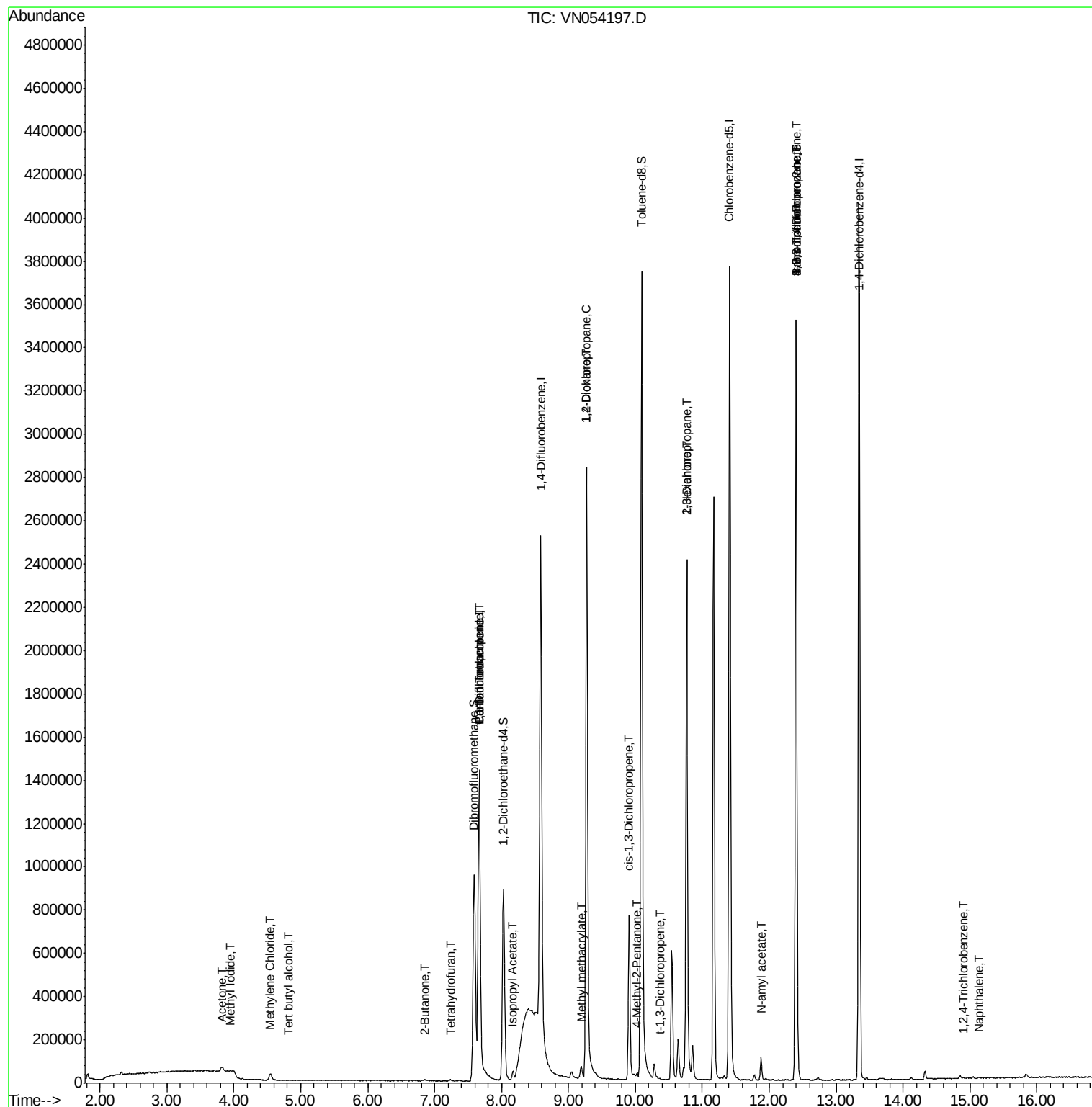
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	3.94	142	76	1.501	ug/l #	12
11) Tert butyl alcohol	4.82	59	396	0.398	ug/l #	70
16) Acetone	3.82	43	31553	7.595	ug/l	94
20) Methylene Chloride	4.55	84	22612	1.658	ug/l	87
25) 2-Butanone	6.85	43	3976	0.815	ug/l	97
29) Tetrahydrofuran	7.22	42	2916	0.930	ug/l #	44
31) Cyclohexane	7.66	56	21897	Below Cal	#	7
36) 1,1-Dichloropropene	7.67	75	82561	3.784	ug/l #	48
38) Carbon Tetrachloride	7.67	117	116417	5.088	ug/l #	16
43) Isopropyl Acetate	8.17	43	48311	2.195	ug/l	94
45) 1,2-Dichloropropane	9.27	63	4368	0.282	ug/l #	43
48) Methyl methacrylate	9.19	41	18740	1.678	ug/l #	11
49) 1,4-Dioxane	9.27	88	383	2.425	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	19241	1.652	ug/l #	36
53) t-1,3-Dichloropropene	10.38	75	294	1.998	ug/l #	1
54) cis-1,3-Dichloropropene	9.90	75	157987	6.456	ug/l #	60
57) 1,3-Dichloropropane	10.76	76	27051	1.144	ug/l #	43
59) 2-Hexanone	10.77	43	359203	46.356	ug/l #	50
71) Bromoform	12.40	173	6750	2.764	ug/l #	1
74) N-amyl acetate	11.88	43	32006	1.508	ug/l #	54
76) 1,2,3-Trichloropropane	12.40	75	577065	32.837	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	577065	112.253	ug/l #	11
93) 1,2,4-Trichlorobenzene	14.91	180	693	2.543	ug/l #	18
95) Naphthalene	15.14	128	3266	3.528	ug/l #	92

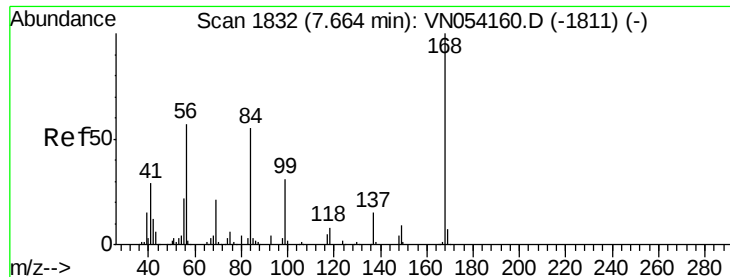
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Mar 13 03:33:31 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN054197.D

Acq: 13 Mar 2019 6:59

Instrument :

MSVOA_N

ClientSampleId :

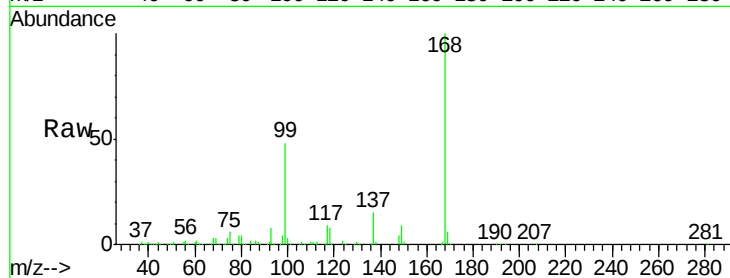
MR-MH-10-COMP

Tot Ion:168 Resp: 1366248

Ion Ratio Lower Upper

168 100

99 48.2 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

600000

500000

400000

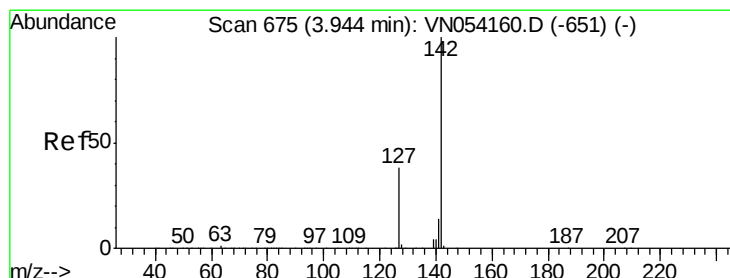
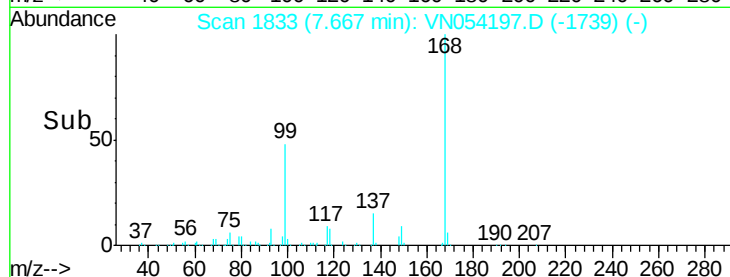
300000

200000

100000

0

Time-->



#10

Methyl Iodide

Concen: 1.501 ug/l

RT: 3.94 min Scan# 673

Delta R.T. -0.01 min

Lab File: VN054197.D

Acq: 13 Mar 2019 6:59

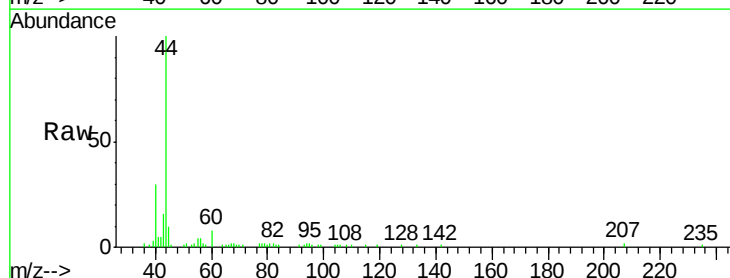
Tgt Ion:142 Resp: 76

Ion Ratio Lower Upper

142 100

127 0.0 30.3 45.5#

141 77.6 11.2 16.8#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

3.94

250

200

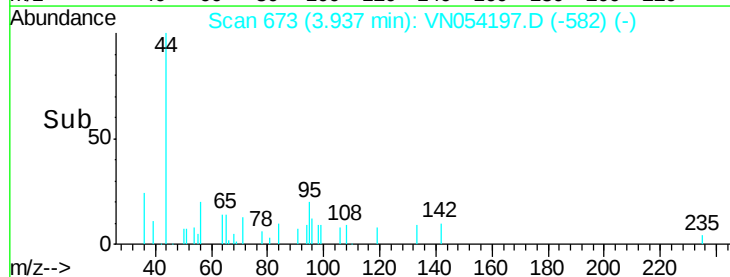
150

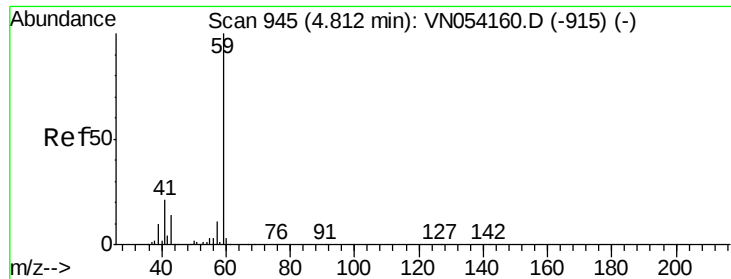
100

50

0

Time-->



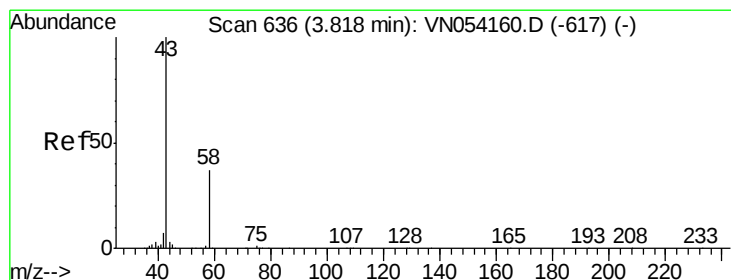
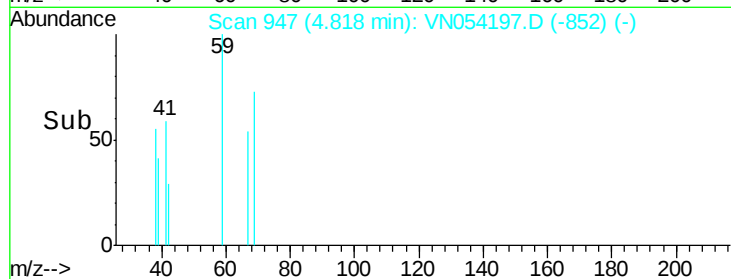
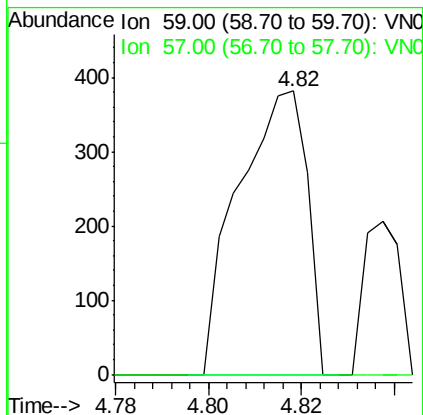
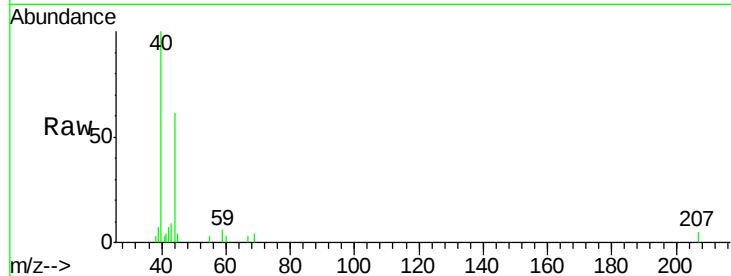


#11

Tert butyl alcohol
 Concen: 0.398 ug/l
 RT: 4.82 min Scan# 947
 Delta R.T. 0.01 min
 Lab File: VN054197.D
 Acq: 13 Mar 2019 6:59

Instrument :
 MSVOA_N
 ClientSampleId :
 MR-MH-10-COMP

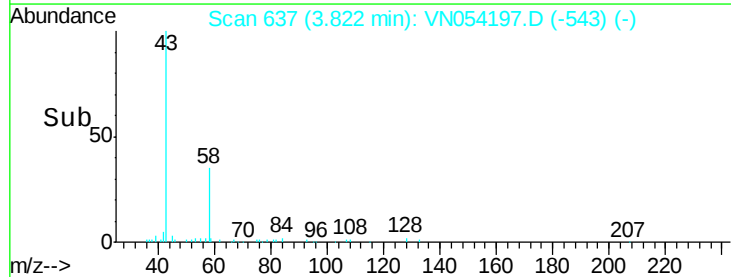
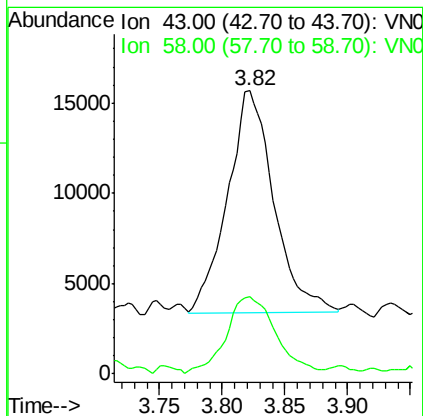
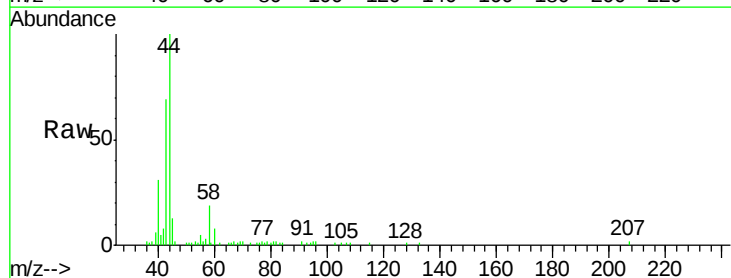
Tot Ion: 59 Resp: 396
 Ion Ratio Lower Upper
 59 100
 57 0.0 9.0 13.6#

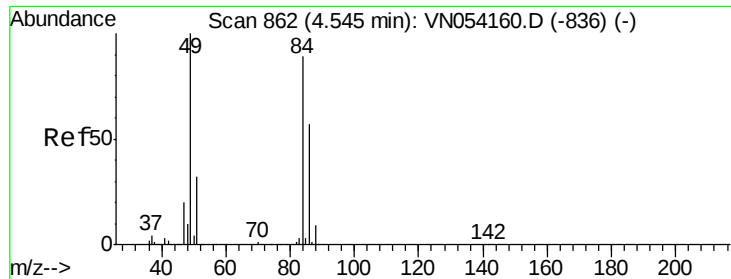


#16

Acetone
 Concen: 7.595 ug/l
 RT: 3.82 min Scan# 637
 Delta R.T. 0.00 min
 Lab File: VN054197.D
 Acq: 13 Mar 2019 6:59

Tgt Ion: 43 Resp: 31553
 Ion Ratio Lower Upper
 43 100
 58 33.8 29.9 44.9

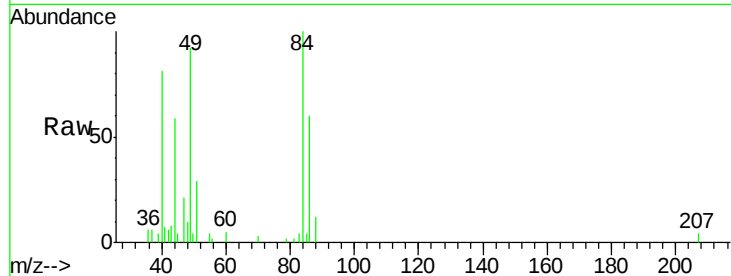




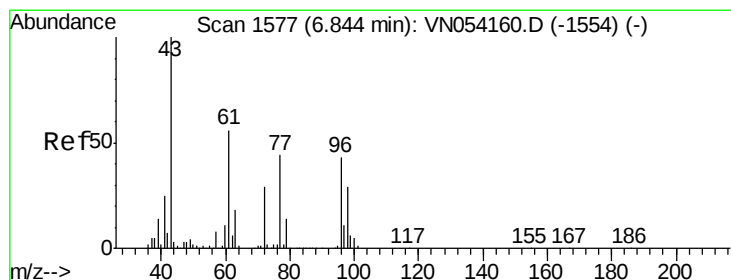
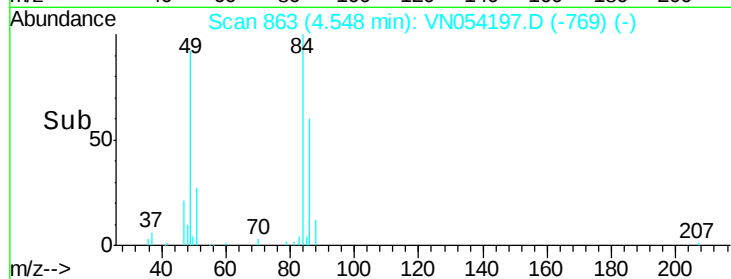
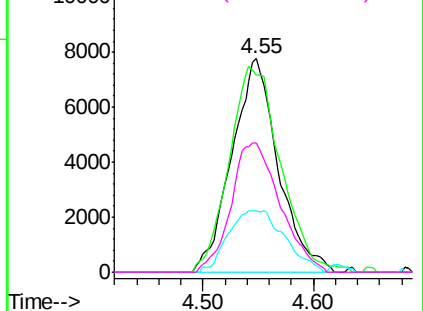
#20
Methvlene Chloride
Concen: 1.658 ug/l
RT: 4.55 min Scan# 863
Delta R.T. 0.00 min
Lab File: VN054197.D
Acq: 13 Mar 2019 6:59

Instrument :
MSVOA_N
ClientSampleId :
MR-MH-10-COMP

Tot Ion:	84	Resp:	22612
Ion	Ratio	Lower	Upper
84	100		
49	92.4	89.7	134.5
51	28.7	28.2	42.4
86	60.4	50.8	76.2

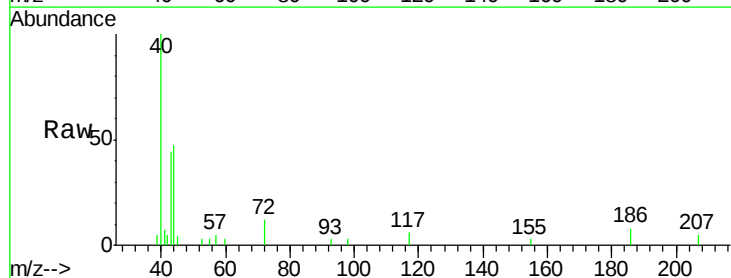


Abundance Ion 83.90 (83.60 to 84.60): VNC
Ion 48.90 (48.60 to 49.60): VNC
Ion 50.90 (50.60 to 51.60): VNC
Ion 85.90 (85.60 to 86.60): VNC

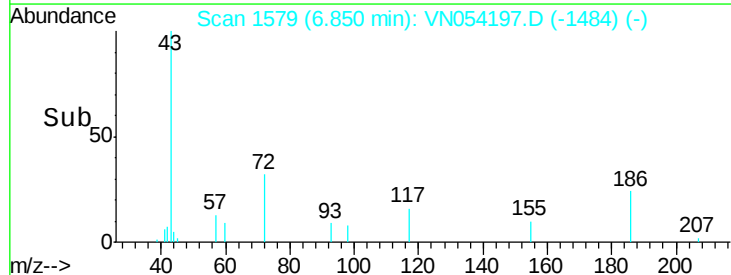
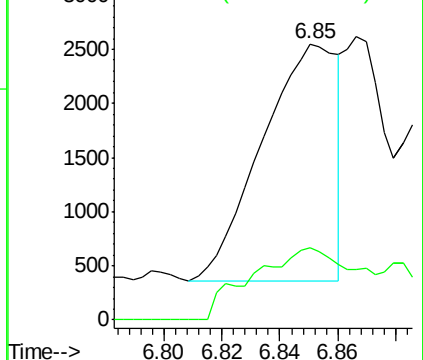


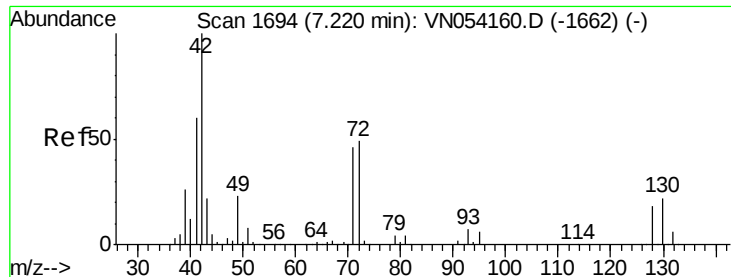
#25
2-Butanone
Concen: 0.815 ug/l
RT: 6.85 min Scan# 1579
Delta R.T. 0.01 min
Lab File: VN054197.D
Acq: 13 Mar 2019 6:59

Tgt Ion:	43	Resp:	3976
Ion	Ratio	Lower	Upper
43	100		
72	30.5	23.0	34.6



Abundance Ion 43.00 (42.70 to 43.70): VNC
Ion 72.00 (71.70 to 72.70): VNC





#29

Tetrahydrofuran

Concen: 0.930 ug/l

RT: 7.22 min Scan# 1695

Delta R.T. 0.00 min

Lab File: VN054197.D

Acq: 13 Mar 2019 6:59

Instrument :

MSVOA_N

ClientSampleId :

MR-MH-10-COMP

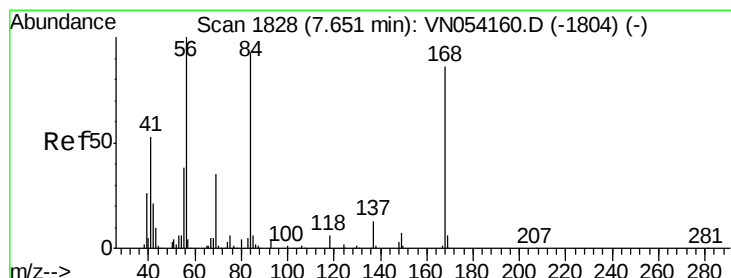
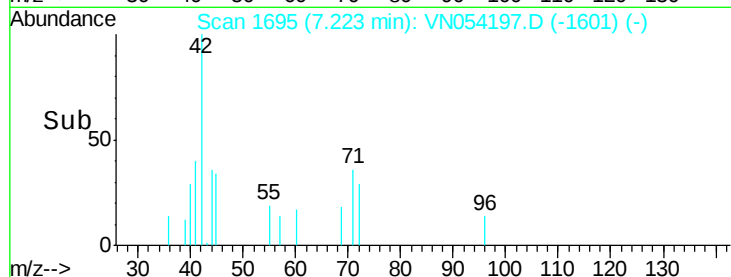
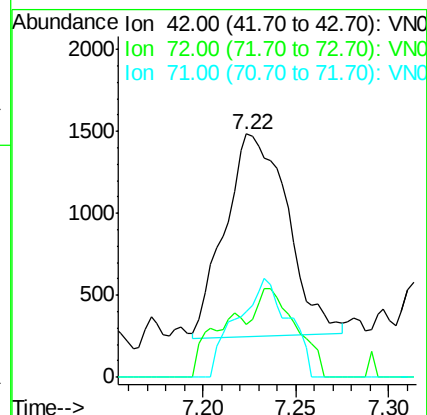
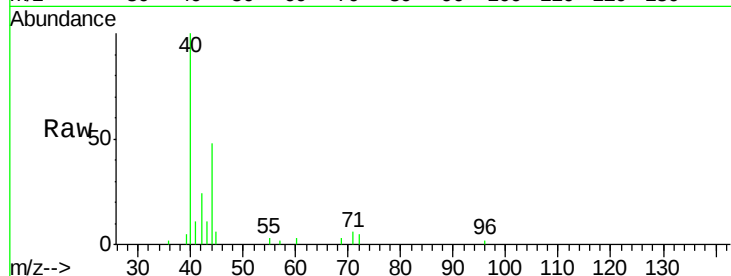
Tot Ion: 42 Resp: 2916

Ion Ratio Lower Upper

42 100

72 18.4 37.8 56.6#

71 0.0 36.2 54.2#



#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN054197.D

Acq: 13 Mar 2019 6:59

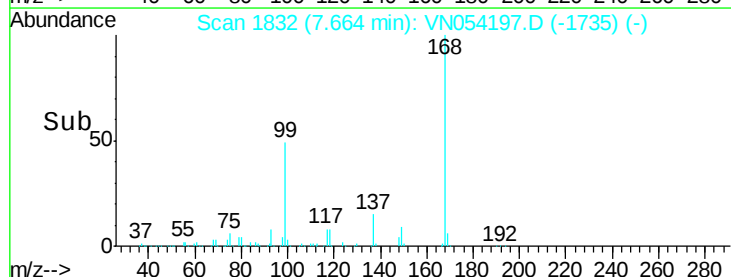
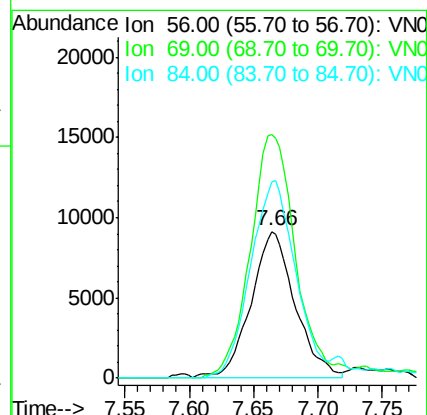
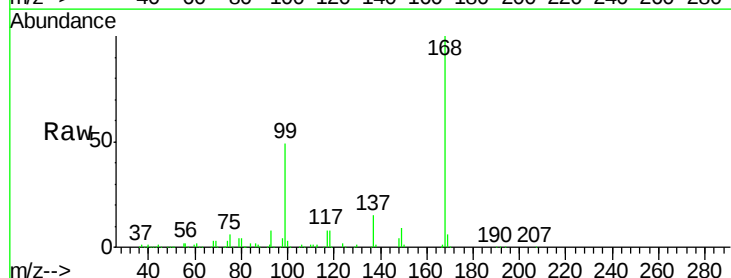
Tgt Ion: 56 Resp: 21897

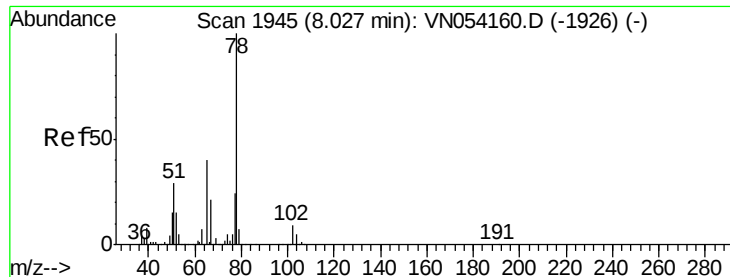
Ion Ratio Lower Upper

56 100

69 166.4 27.8 41.6#

84 134.0 74.6 111.8#





#33

1,2-Dichloroethane-d4

Concen: 54.102 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN054197.D

Acq: 13 Mar 2019 6:59

Instrument :

MSVOA_N

ClientSampleId :

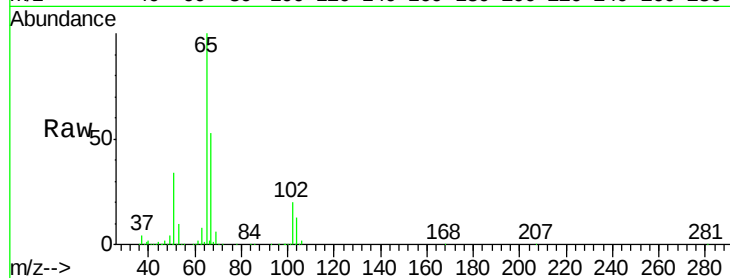
MR-MH-10-COMP

Tot Ion: 65 Resp: 785001

Ion Ratio Lower Upper

65 100

67 51.8 0.0 104.6



Abundance Ion 64.90 (64.60 to 65.60): VN054160.D (-1926) (-)

Ion 66.90 (66.60 to 67.60): VN054160.D (-1926) (-)

8.03

300000

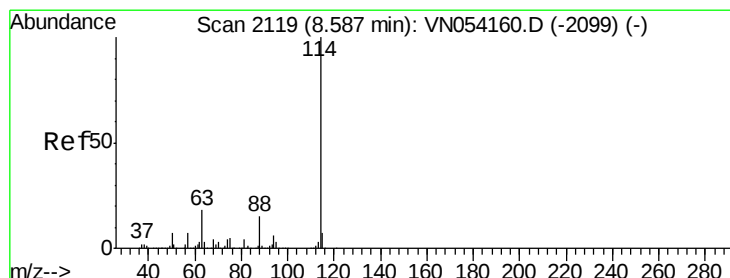
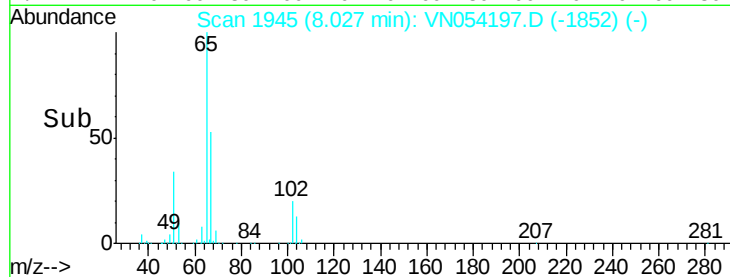
200000

100000

0

7.90 8.00 8.10 8.20

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN054197.D

Acq: 13 Mar 2019 6:59

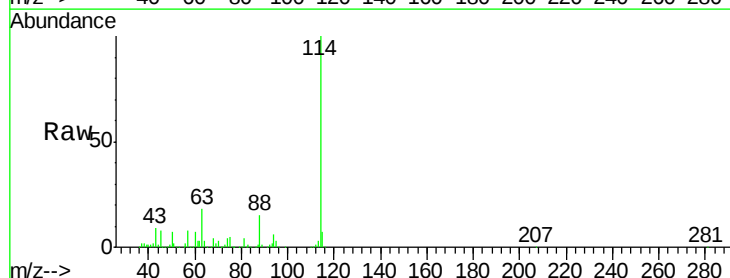
Tgt Ion: 114 Resp: 2369244

Ion Ratio Lower Upper

114 100

63 18.2 0.0 35.2

88 15.4 0.0 30.2



Abundance Ion 113.90 (113.60 to 114.60): VN054160.D (-2099) (-)

Ion 63.00 (62.70 to 63.70): VN054160.D (-2099) (-)

Ion 87.90 (87.60 to 88.60): VN054160.D (-2099) (-)

8.59

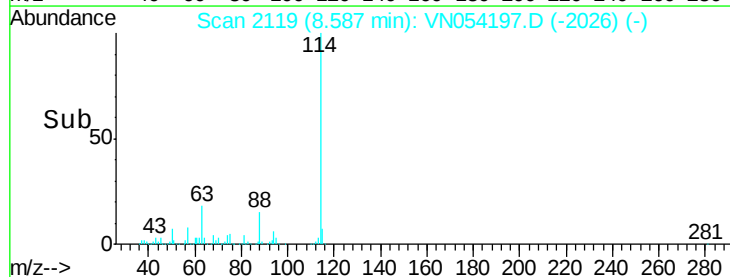
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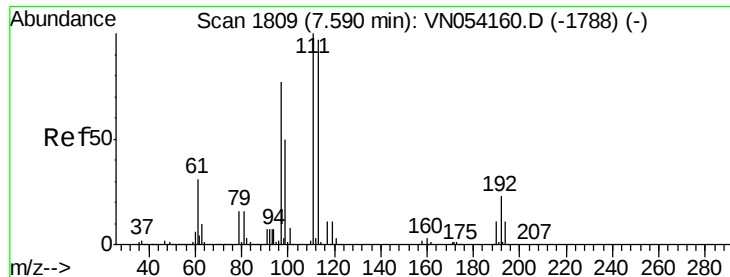
500000

0

8.40 8.60 8.80

Time-->

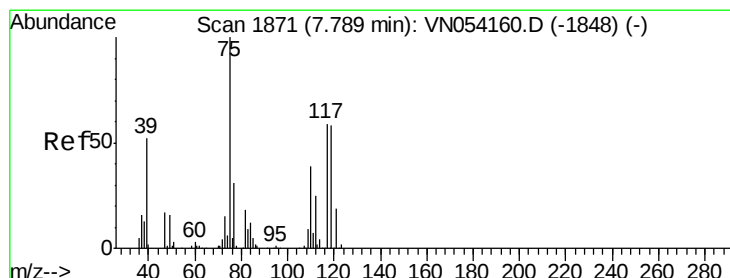
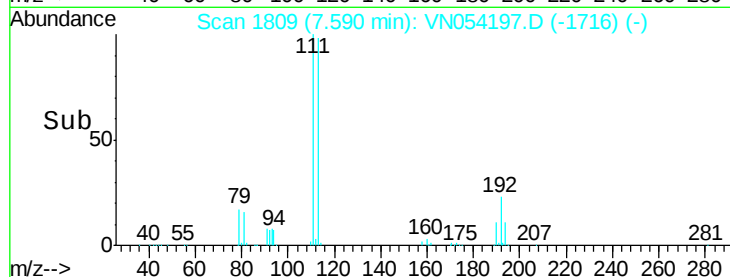
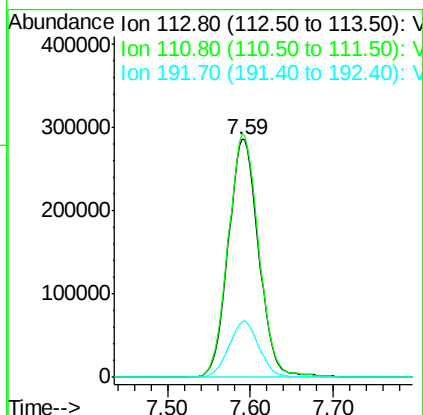
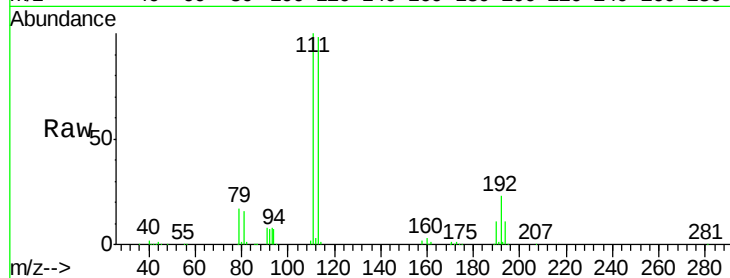




#35
 Dibromofluoromethane
 Concen: 47.886 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN054197.D
 Acq: 13 Mar 2019 6:59

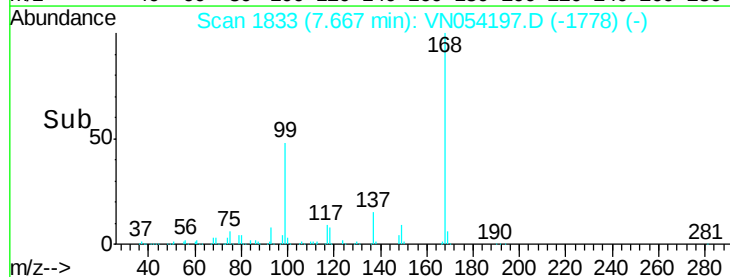
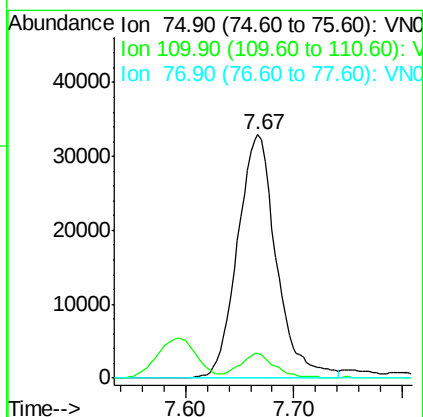
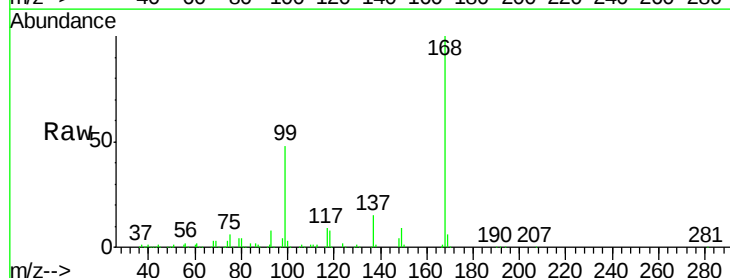
Instrument :
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 MR-MH-10-COMP

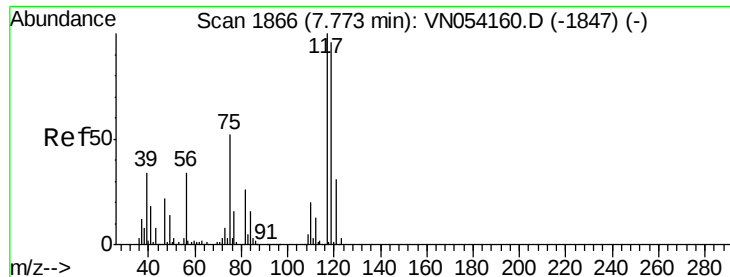
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.7	82.2	123.4
192	23.4	19.2	28.8



#36
 1,1-Dichloropropene
 Concen: 3.784 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.12 min
 Lab File: VN054197.D
 Acq: 13 Mar 2019 6:59

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.2	19.1	57.5#
77	0.0	25.0	37.4#





#38

Carbon Tetrachloride

Concen: 5.088 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN054197.D

Acq: 13 Mar 2019 6:59

Instrument :

MSVOA_N

ClientSampleId :

MR-MH-10-COMP

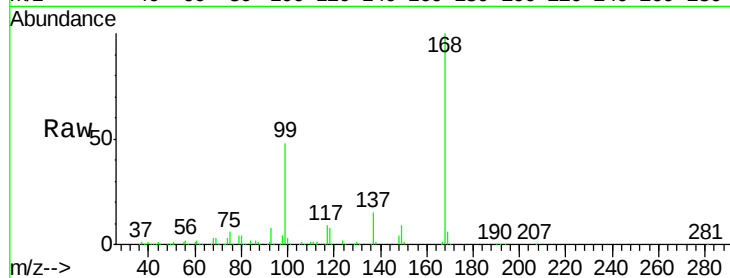
Tot Ion:117 Resp: 116417

Ion Ratio Lower Upper

117 100

119 5.4 76.3 114.5#

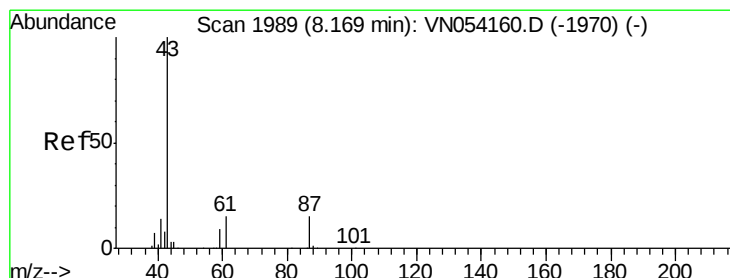
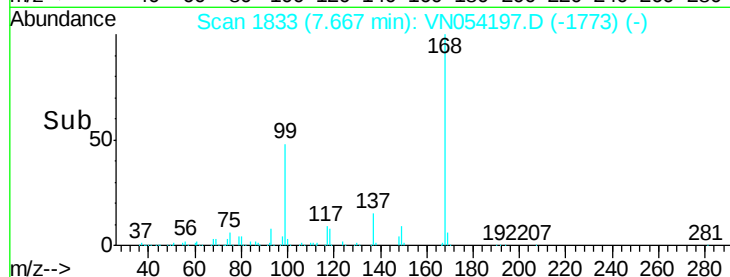
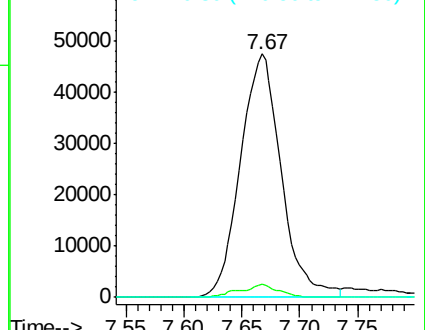
121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 2.195 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.00 min

Lab File: VN054197.D

Acq: 13 Mar 2019 6:59

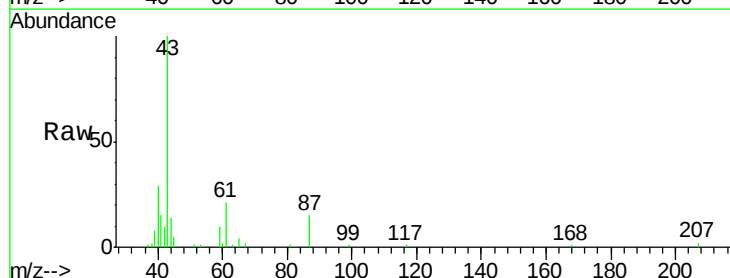
Tgt Ion: 43 Resp: 48311

Ion Ratio Lower Upper

43 100

61 23.5 15.8 23.8

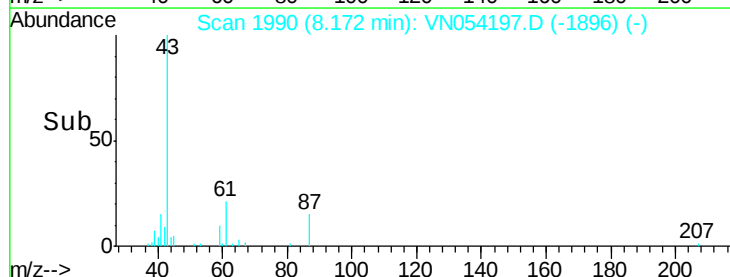
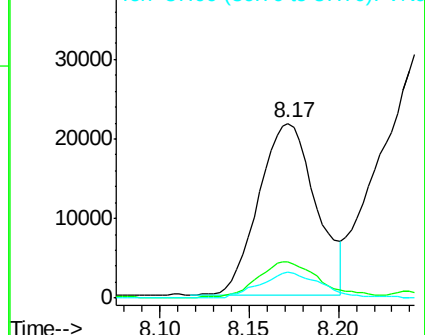
87 16.1 12.0 18.0

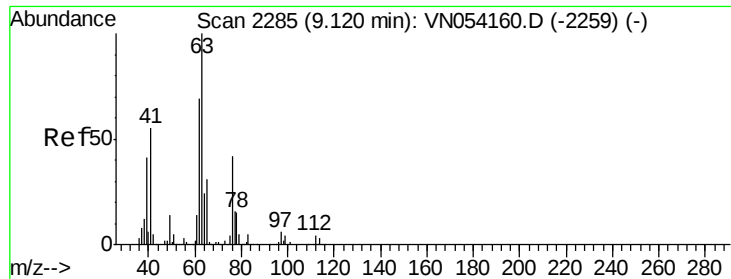


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

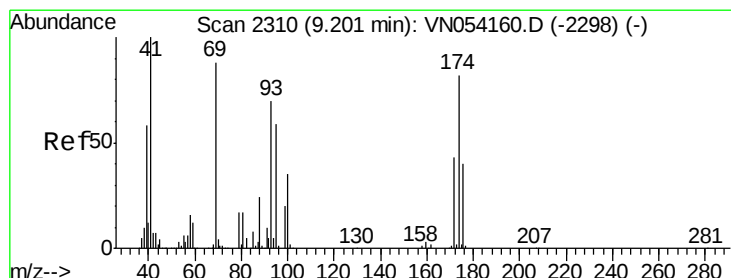
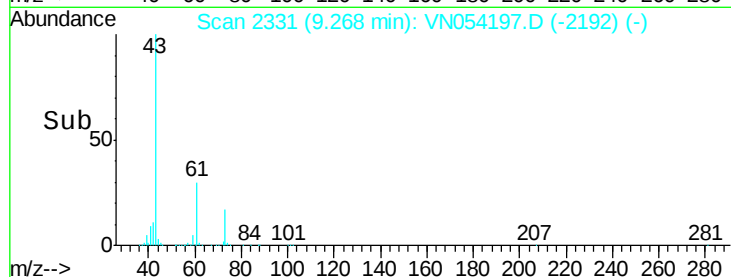
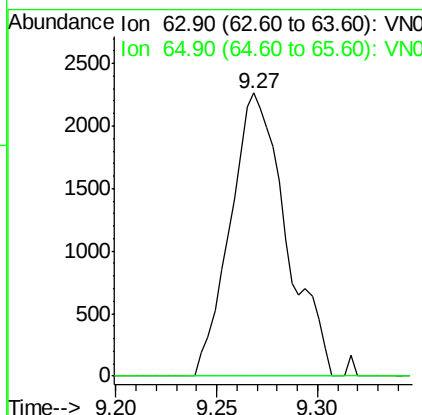
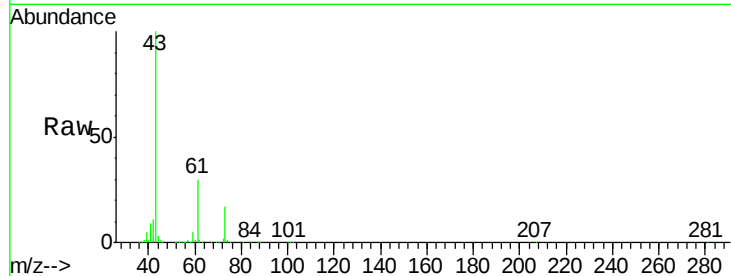




#45
 1,2-Dichloropropane
 Concen: 0.282 ug/l
 RT: 9.27 min Scan# 2331
 Delta R.T. 0.15 min
 Lab File: VN054197.D
 Acq: 13 Mar 2019 6:59

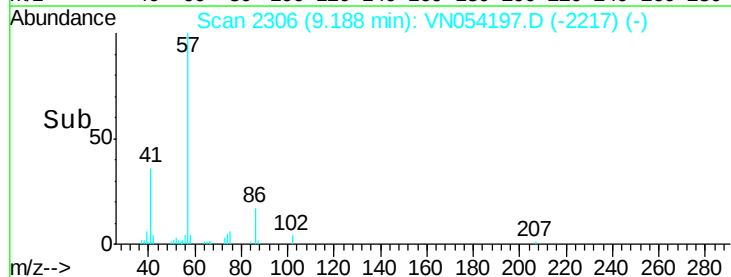
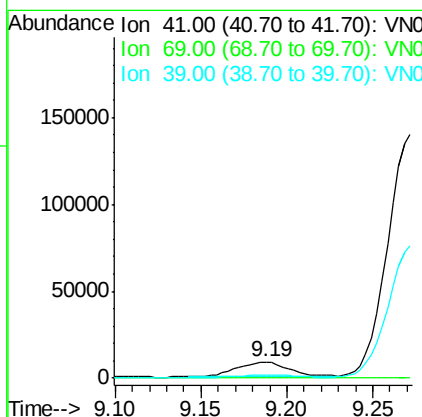
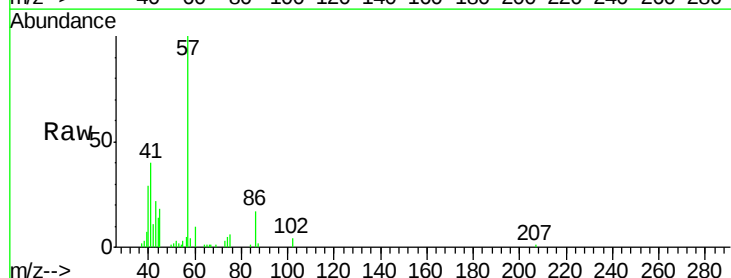
Instrument :
 MSVOA_N
 ClientSampleId :
 MR-MH-10-COMP

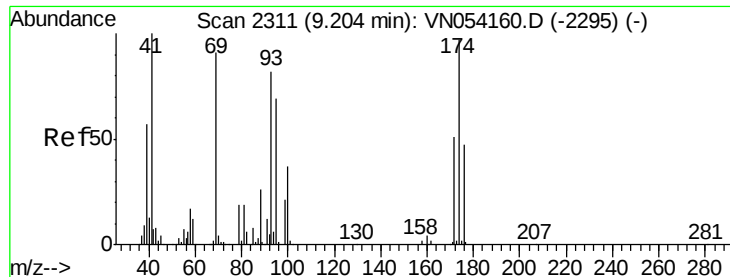
Tot Ion: 63 Resp: 4368
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.6#



#48
 Methyl methacrylate
 Concen: 1.678 ug/l
 RT: 9.19 min Scan# 2306
 Delta R.T. -0.01 min
 Lab File: VN054197.D
 Acq: 13 Mar 2019 6:59

Tgt Ion: 41 Resp: 18740
 Ion Ratio Lower Upper
 41 100
 69 0.4 72.6 108.8#
 39 0.0 47.5 71.3#





#49

1,4-Dioxane

Concen: 2.425 ug/l

RT: 9.27 min Scan# 2332

Delta R.T. 0.07 min

Lab File: VN054197.D

Acq: 13 Mar 2019 6:59

Instrument :

MSVOA_N

ClientSampleId :

MR-MH-10-COMP

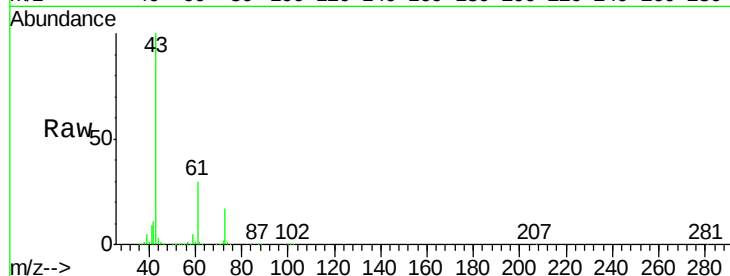
Tot Ion: 88 Resp: 383

Ion Ratio Lower Upper

88 100

43 772358.7 24.1 36.1#

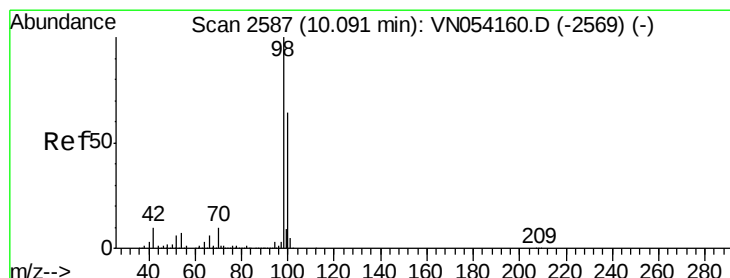
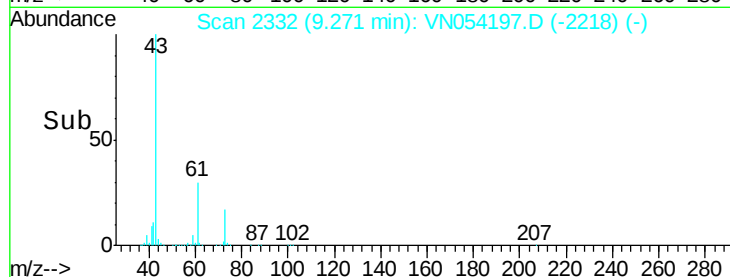
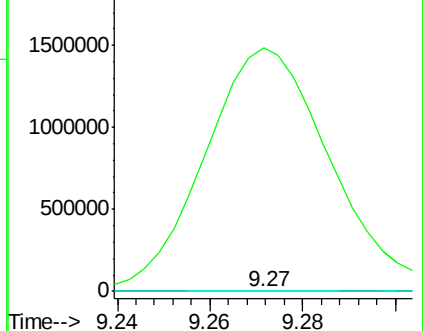
58 3222.2 50.8 76.2#



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: 52.665 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054197.D

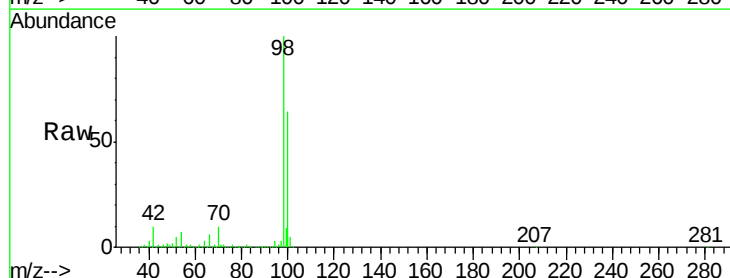
Acq: 13 Mar 2019 6:59

Tgt Ion: 98 Resp: 2972068

Ion Ratio Lower Upper

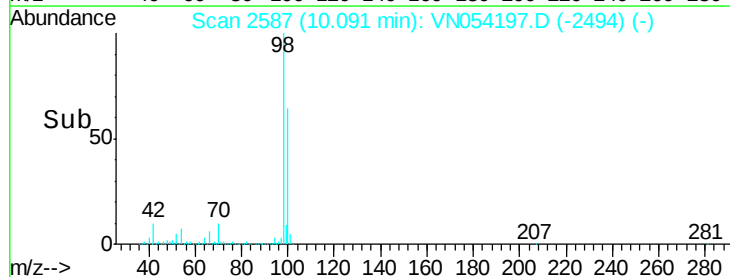
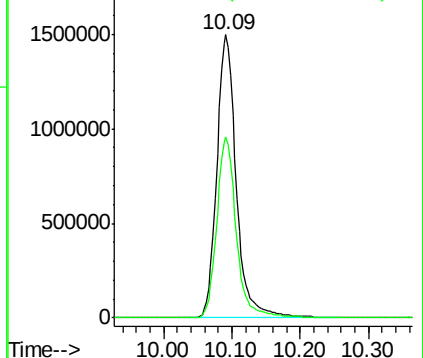
98 100

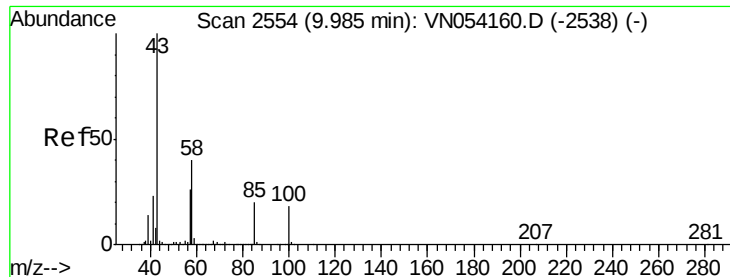
100 64.0 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 1.652 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN054197.D

Acq: 13 Mar 2019 6:59

Instrument :

MSVOA_N

ClientSampleId :

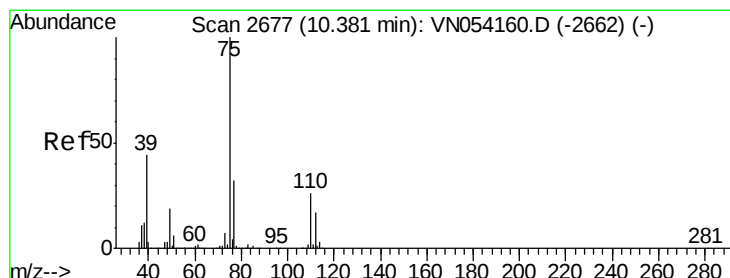
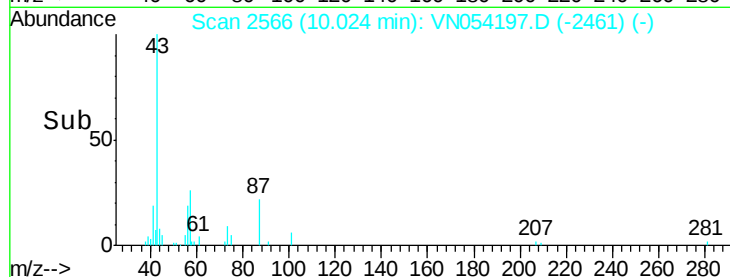
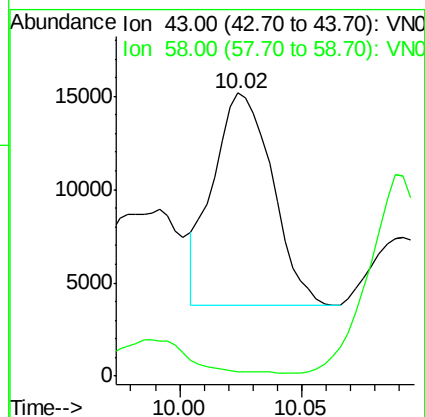
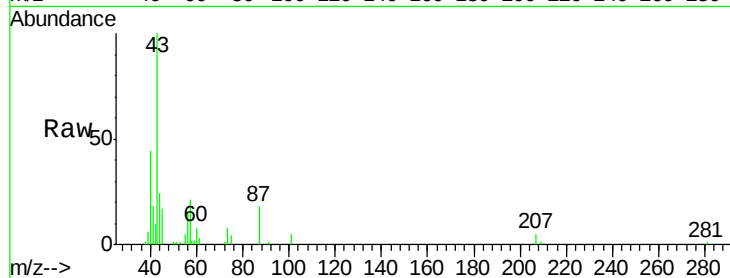
MR-MH-10-COMP

Tot Ion: 43 Resp: 19241

Ion Ratio Lower Upper

43 100

58 0.0 31.8 47.6#



#53

t-1,3-Dichloropropene

Concen: 1.998 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN054197.D

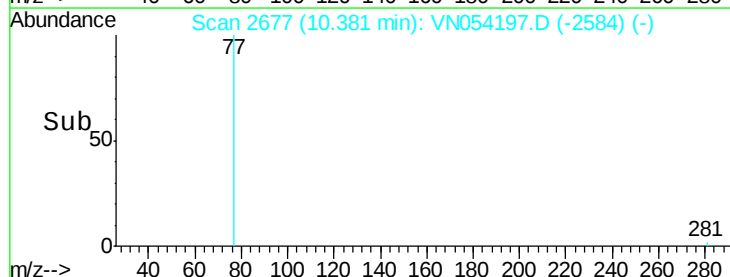
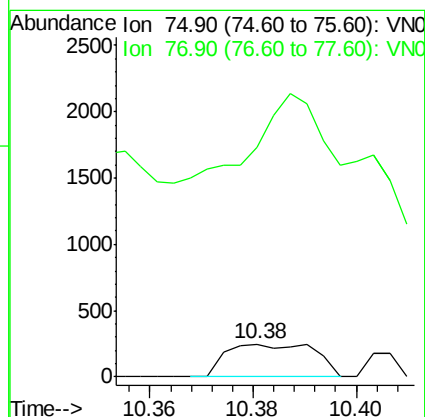
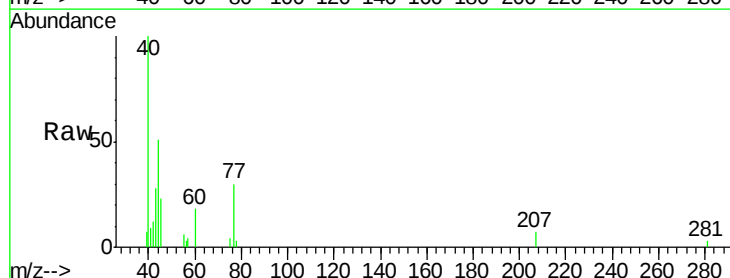
Acq: 13 Mar 2019 6:59

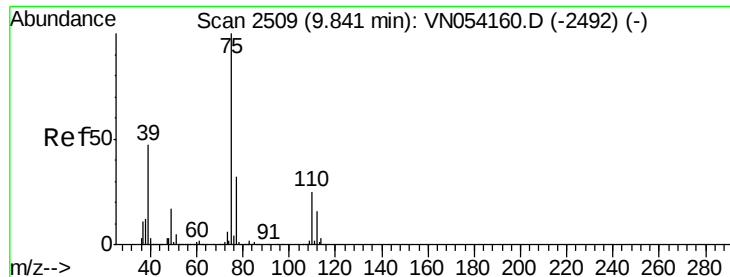
Tgt Ion: 75 Resp: 294

Ion Ratio Lower Upper

75 100

77 92.4 25.8 38.8#





#54

cis-1,3-Dichloropropene

Concen: 6.456 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN054197.D

Acq: 13 Mar 2019 6:59

Instrument :

MSVOA_N

ClientSampleId :

MR-MH-10-COMP

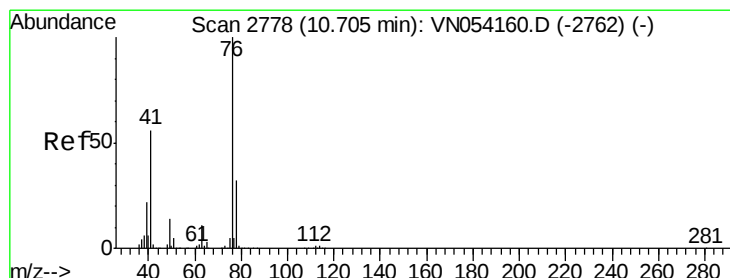
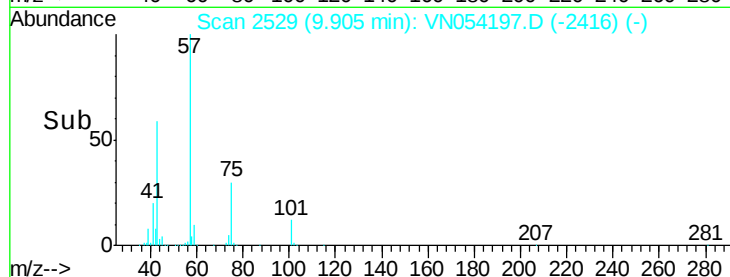
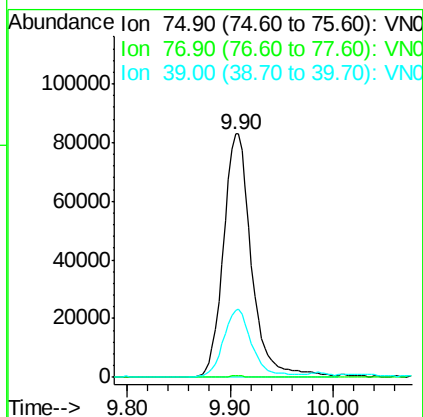
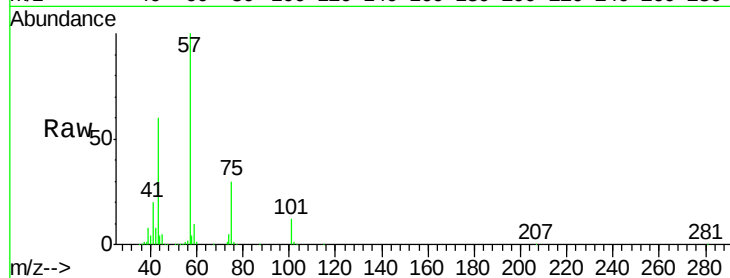
Tot Ion: 75 Resp: 157987

Ion Ratio Lower Upper

75 100

77 0.6 25.4 38.0#

39 27.3 37.2 55.8#



#57

1,3-Dichloropropane

Concen: 1.144 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN054197.D

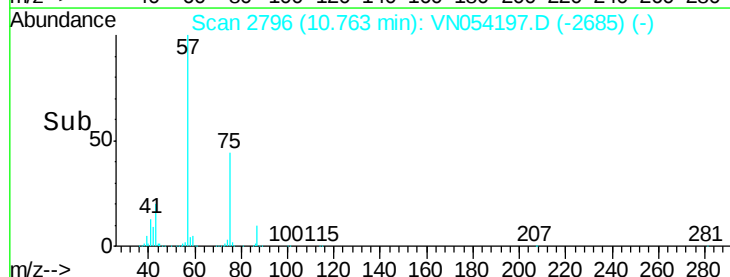
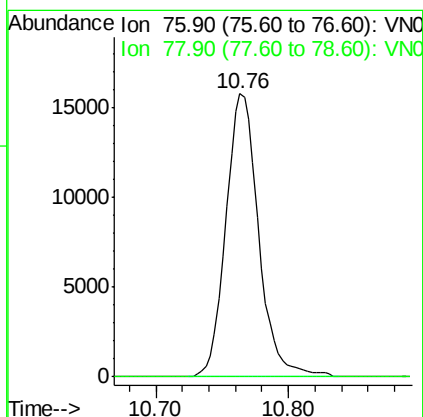
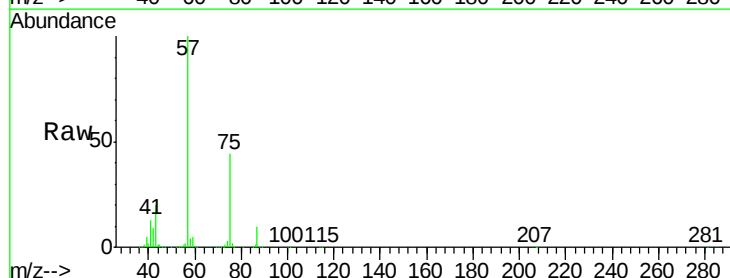
Acq: 13 Mar 2019 6:59

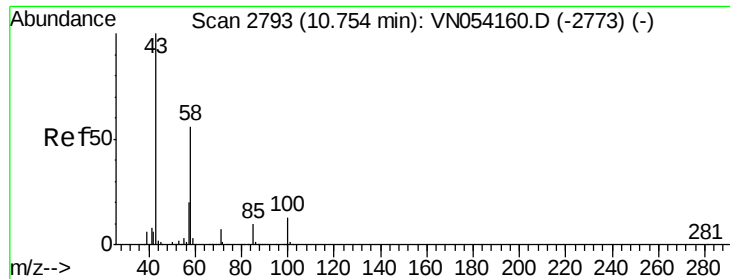
Tgt Ion: 76 Resp: 27051

Ion Ratio Lower Upper

76 100

78 0.0 25.7 38.5#

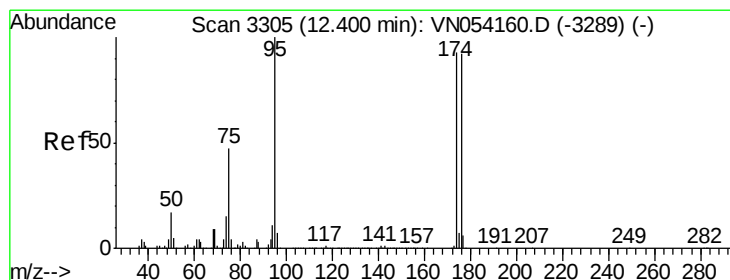
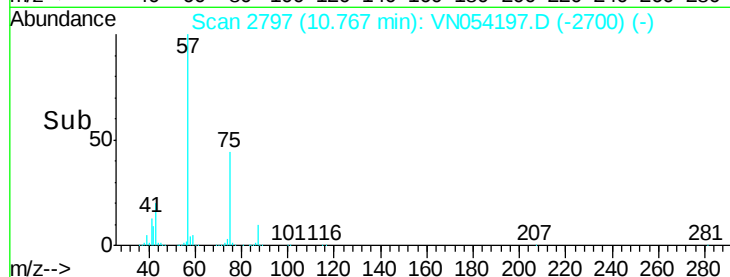
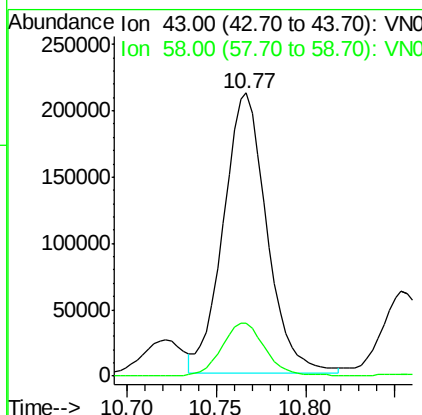
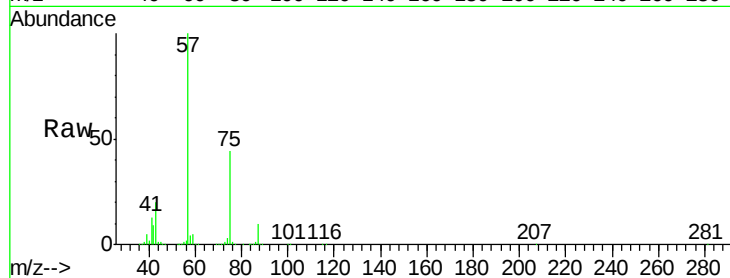




#59
2-Hexanone
Concen: 46.356 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN054197.D
Acq: 13 Mar 2019 6:59

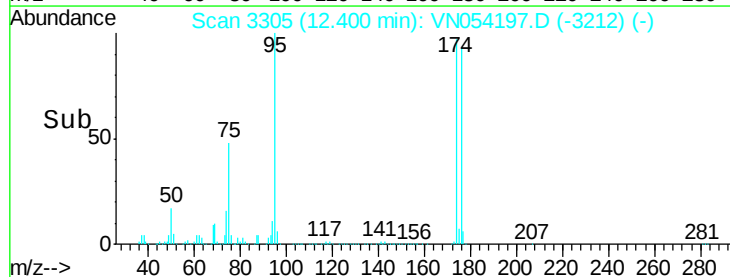
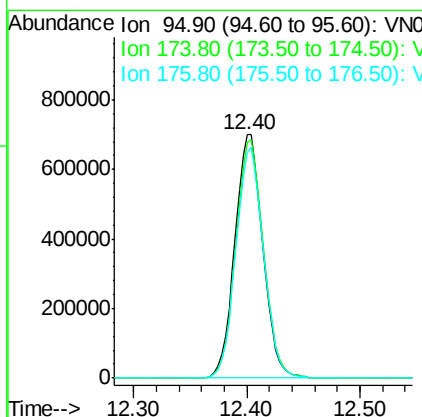
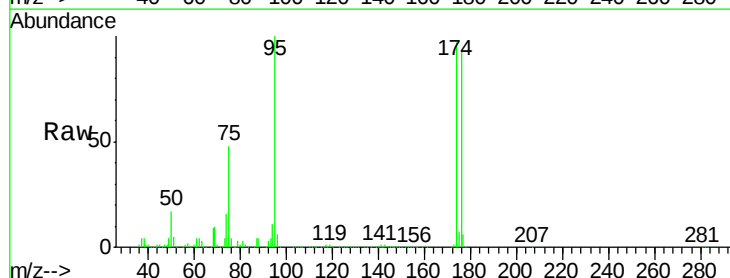
Instrument :
MSVOA_N
ClientSampleId :
MR-MH-10-COMP

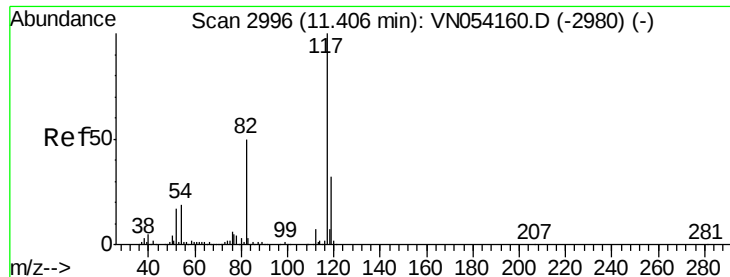
Tot Ion: 43 Resp: 359203
Ion Ratio Lower Upper
43 100
58 19.2 28.0 83.9#



#62
4-Bromofluorobenzene
Concen: 61.042 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN054197.D
Acq: 13 Mar 2019 6:59

Tgt Ion: 95 Resp: 1205340
Ion Ratio Lower Upper
95 100
174 97.2 0.0 191.0
176 93.8 0.0 187.4

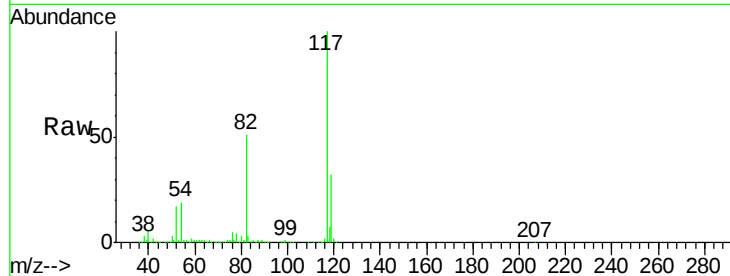




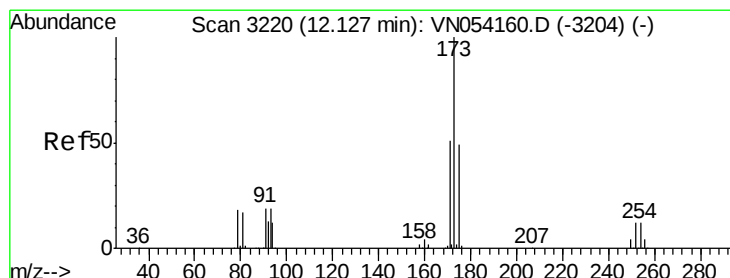
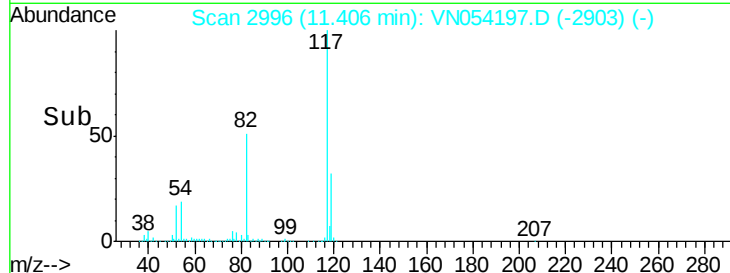
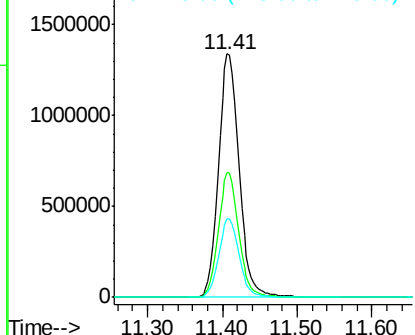
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN054197.D
Acq: 13 Mar 2019 6:59

Instrument :
MSVOA_N
ClientSampleId :
MR-MH-10-COMP

Tot Ion:117 Resp: 2561746
Ion Ratio Lower Upper
117 100
82 51.2 40.0 60.0
119 32.3 25.8 38.6

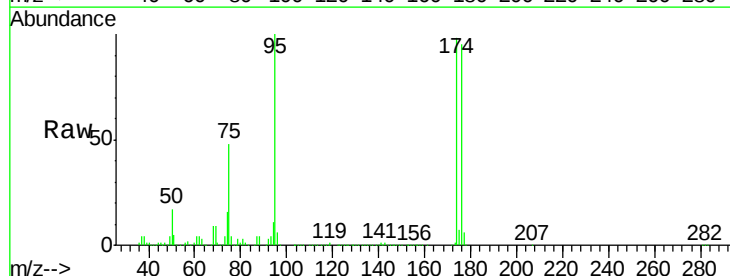


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

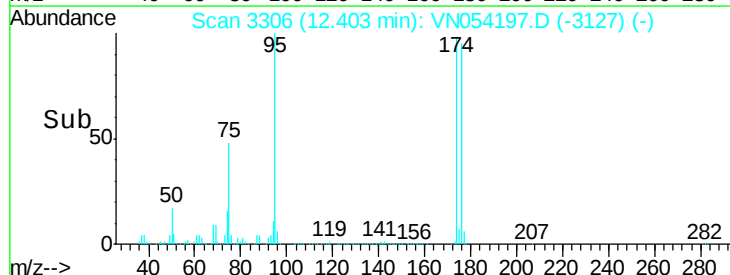
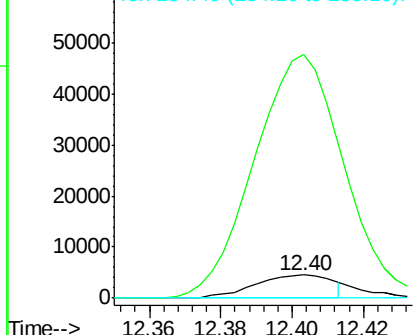


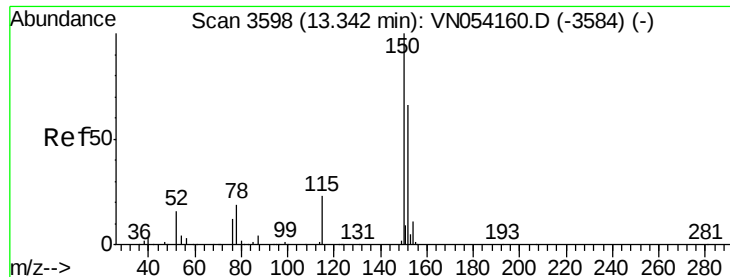
#71
Bromoform
Concen: 2.764 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN054197.D
Acq: 13 Mar 2019 6:59

Tgt Ion:173 Resp: 6750
Ion Ratio Lower Upper
173 100
175 1054.9 24.4 73.2#
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: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN054197.D

Acq: 13 Mar 2019 6:59

Instrument :

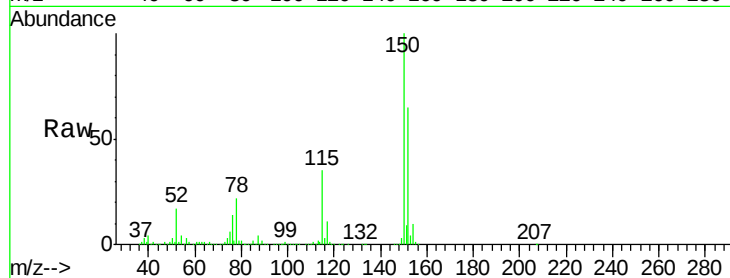
MSVOA_N

ClientSampleId :

MR-MH-10-COMP

Tot Ion:152 Resp: 1195027

Ion	Ratio	Lower	Upper
152	100		
115	54.5	27.2	81.6
150	155.1	0.0	349.2

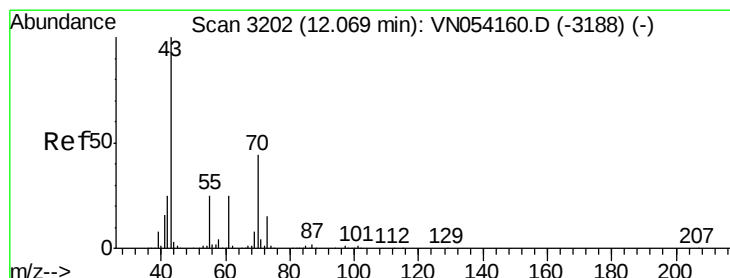
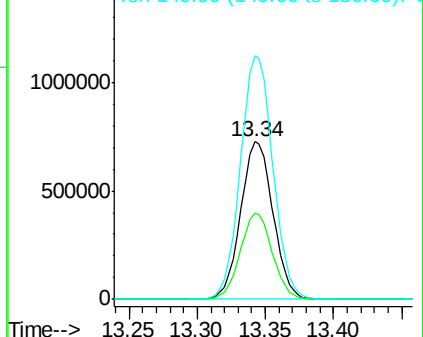
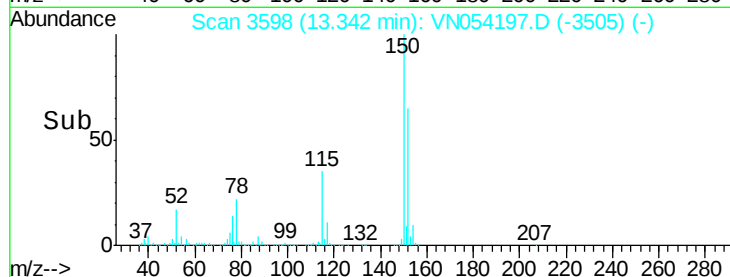


Abundance

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-ethyl acetate

Concen: 1.508 ug/l

RT: 11.88 min Scan# 3143

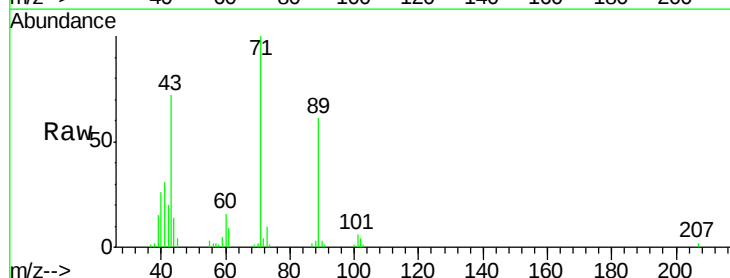
Delta R.T. -0.19 min

Lab File: VN054197.D

Acq: 13 Mar 2019 6:59

Tgt Ion: 43 Resp: 32006

Ion	Ratio	Lower	Upper
43	100		
70	2.6	35.4	53.0#
55	6.8	19.8	29.6#
61	12.4	19.8	29.6#



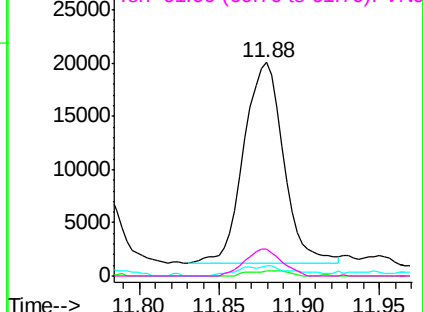
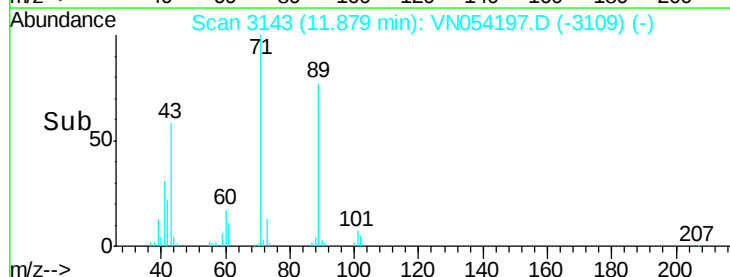
Abundance

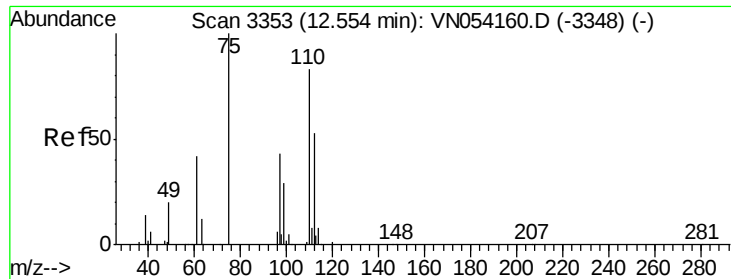
Ion 43.00 (42.70 to 43.70): V

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

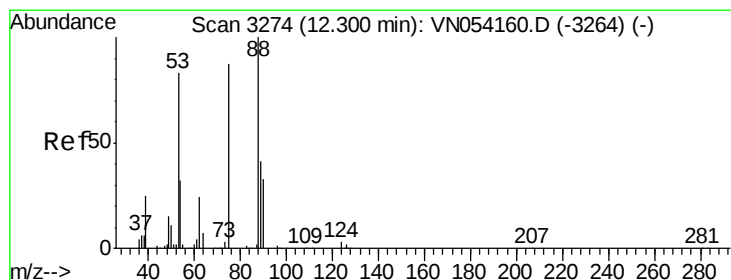
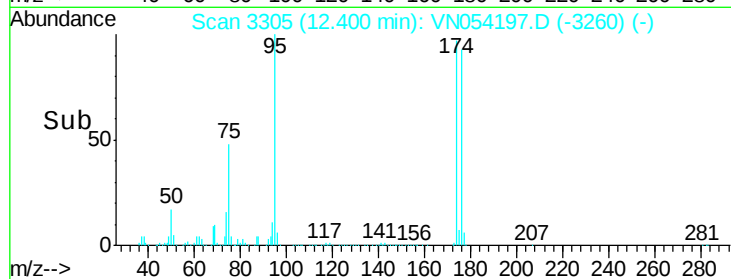
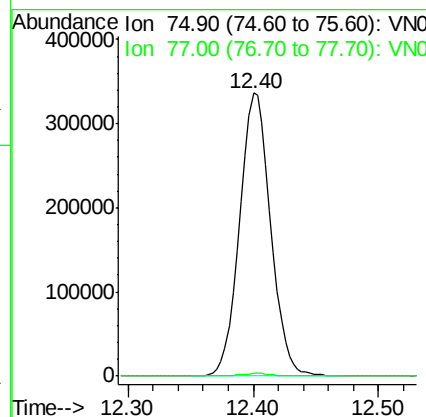
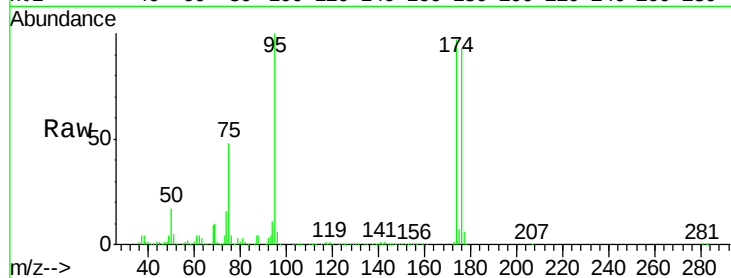




#76
 1,2,3-Trichloropropane
 Concen: 32.837 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.15 min
 Lab File: VN054197.D
 Acq: 13 Mar 2019 6:59

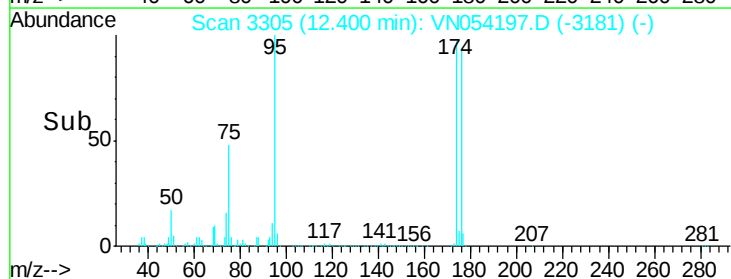
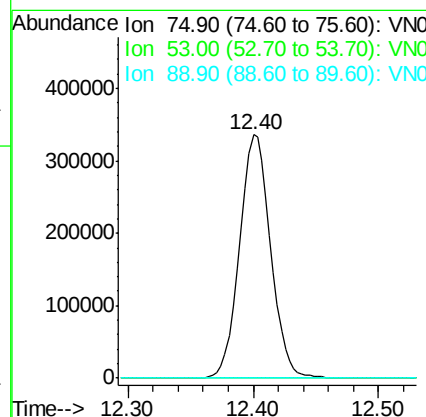
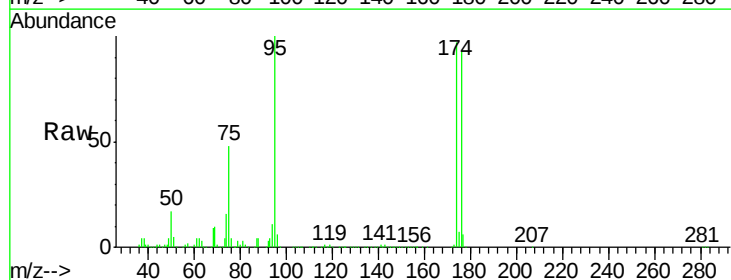
Instrument :
 MSVOA_N
 ClientSampleId :
 MR-MH-10-COMP

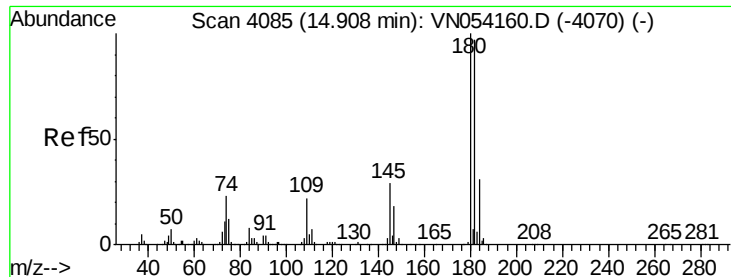
Tot Ion: 75 Resp: 577065
 Ion Ratio Lower Upper
 75 100
 77 1.1 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 112.253 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN054197.D
 Acq: 13 Mar 2019 6:59

Tgt Ion: 75 Resp: 577065
 Ion Ratio Lower Upper
 75 100
 53 0.0 76.2 114.2#
 89 0.0 39.2 58.8#

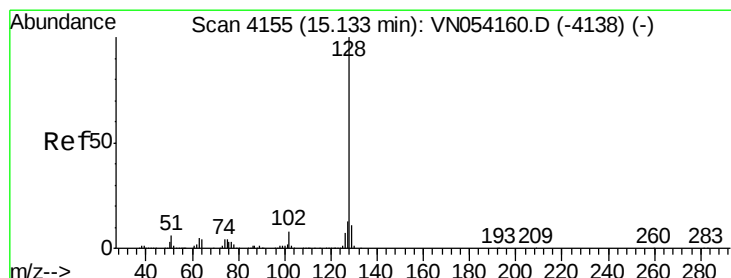
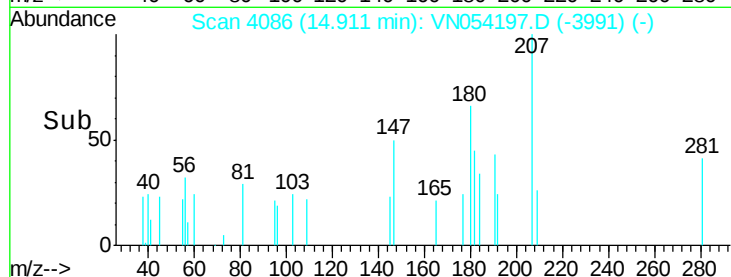
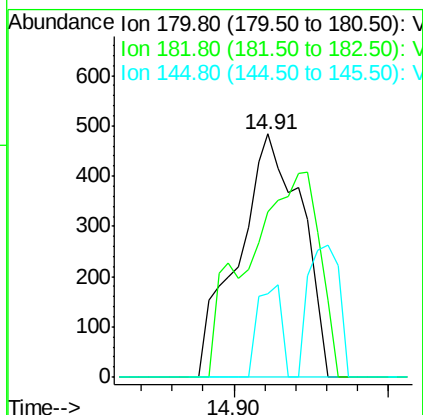
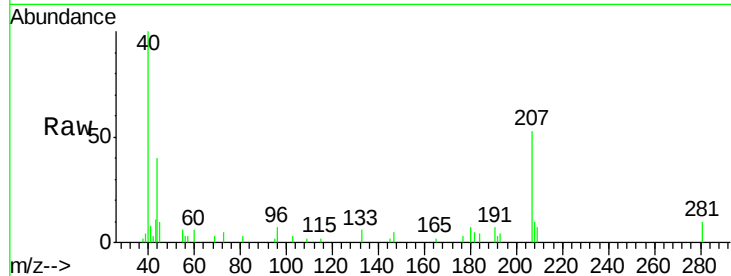




#93
 1,2,4-Trichlorobenzene
 Concen: 2.543 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN054197.D
 Acq: 13 Mar 2019 6:59

Instrument :
 MSVOA_N
 ClientSampleId :
 MR-MH-10-COMP

Tot Ion:180 Resp: 693
 Ion Ratio Lower Upper
 180 100
 182 0.0 48.0 144.2#
 145 14.3 14.2 42.8



#95
 Naphthalene
 Concen: 3.528 ug/l
 RT: 15.14 min Scan# 4156
 Delta R.T. 0.00 min
 Lab File: VN054197.D
 Acq: 13 Mar 2019 6:59

Tgt Ion:128 Resp: 3266
 Ion Ratio Lower Upper
 128 100
 127 10.1 10.1 15.1
 129 14.3 8.7 13.1#

