

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031219\
 Data File : VN054196.D
 Acq On : 13 Mar 2019 6:33
 Operator : JC/SP
 Sample : K1837-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MR-MH-09-COMP

Quant Time: Mar 13 07:37:39 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	7.66	168	1437351	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2360606	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2484010	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	1131300	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	773310	50.66	ug/l	0.00
Spiked Amount			Recovery	=	101.32%	
35) Dibromofluoromethane	7.59	113	720688	47.34	ug/l	0.00
Spiked Amount			Recovery	=	94.68%	
50) Toluene-d8	10.09	98	2935663	52.21	ug/l	0.00
Spiked Amount			Recovery	=	104.42%	
62) 4-Bromofluorobenzene	12.40	95	1166060	59.27	ug/l	0.00
Spiked Amount			Recovery	=	118.54%	

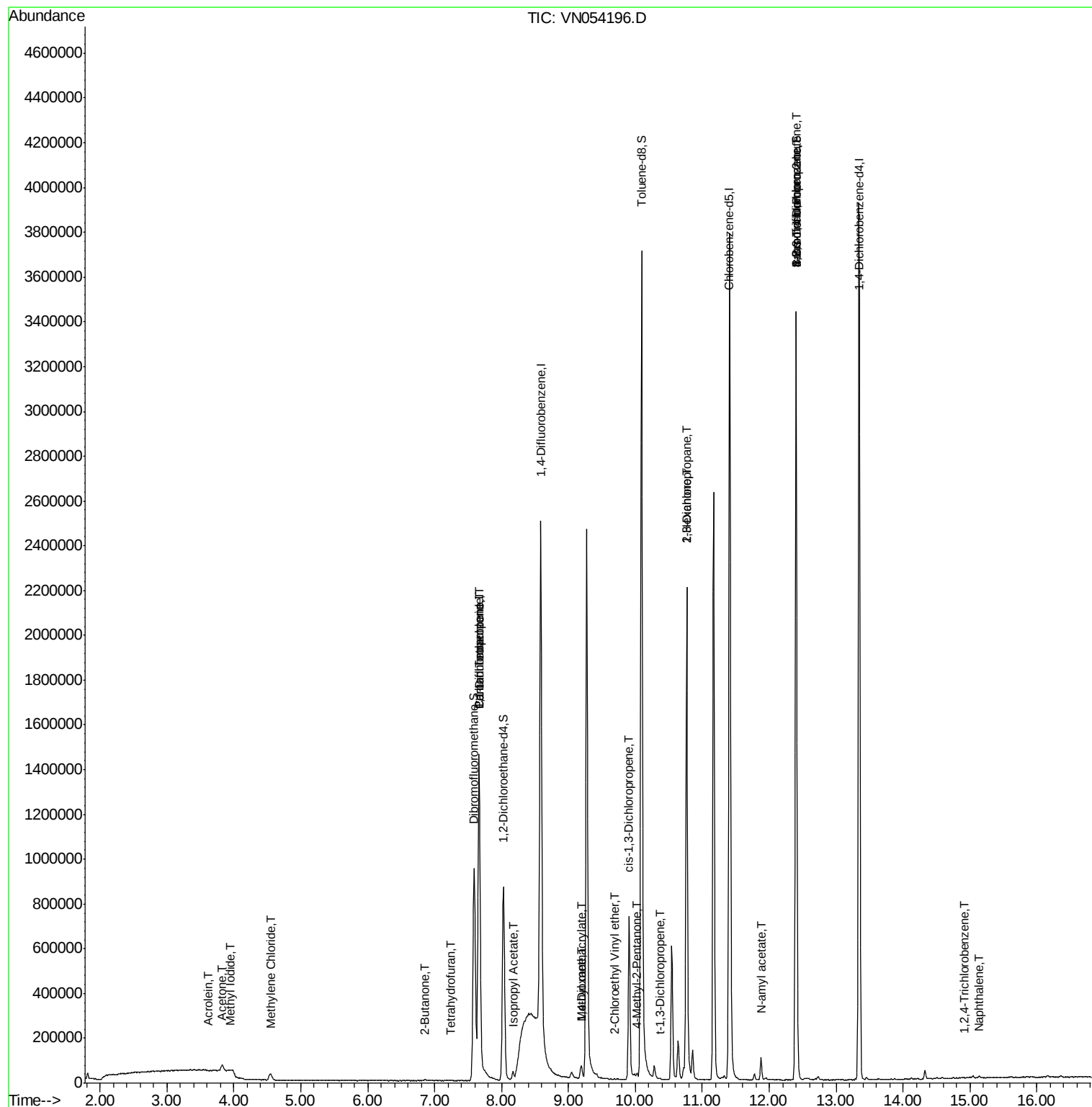
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	3.94	142	214	1.507	ug/l #	45
13) Acrolein	3.61	56	245	0.247	ug/l #	71
16) Acetone	3.82	43	39628	9.067	ug/l	96
20) Methylene Chloride	4.55	84	22927	1.598	ug/l	95
25) 2-Butanone	6.86	43	7943	1.548	ug/l	100
29) Tetrahydrofuran	7.23	42	1488	0.451	ug/l #	68
31) Cyclohexane	7.66	56	21802	Below Cal	#	1
36) 1,1-Dichloropropene	7.66	75	80808	3.717	ug/l #	48
38) Carbon Tetrachloride	7.66	117	114172	5.008	ug/l #	16
43) Isopropyl Acetate	8.17	43	43484	1.983	ug/l	95
48) Methyl methacrylate	9.18	41	18813	1.691	ug/l #	11
49) 1,4-Dioxane	9.19	88	100	0.635	ug/l #	1
51) 4-Methyl-2-Pentanone	10.03	43	15639	1.348	ug/l #	36
53) t-1,3-Dichloropropene	10.38	75	63	1.988	ug/l #	1
54) cis-1,3-Dichloropropene	9.90	75	150274	6.163	ug/l #	61
57) 1,3-Dichloropropane	10.76	76	25893	1.099	ug/l #	43
58) 2-Chloroethyl Vinyl ether	9.70	63	94	16.840	ug/l #	44
59) 2-Hexanone	10.76	43	324578	42.041	ug/l #	51
71) Bromoform	12.40	173	7873	2.847	ug/l #	1
74) N-amyl acetate	11.88	43	29281	1.457	ug/l #	54
76) 1,2,3-Trichloropropane	12.40	75	556601	33.457	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	556601	114.371	ug/l #	11
93) 1,2,4-Trichlorobenzene	14.91	180	633	2.542	ug/l	79
95) Naphthalene	15.13	128	7645	3.613	ug/l #	96

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN054196.D

Acq: 13 Mar 2019 6:33

Instrument :

MSVOA_N

ClientSampleId :

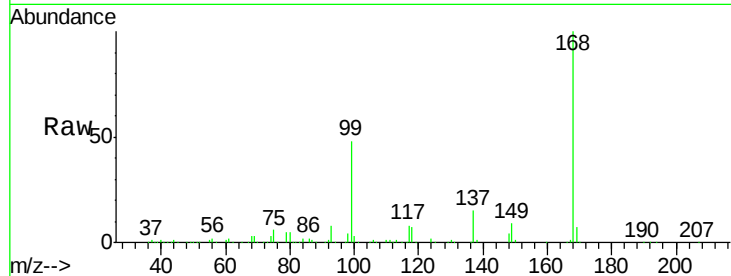
MR-MH-09-COMP

Tot Ion:168 Resp: 1437351

Ion Ratio Lower Upper

168 100

99 48.3 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.66

600000

500000

400000

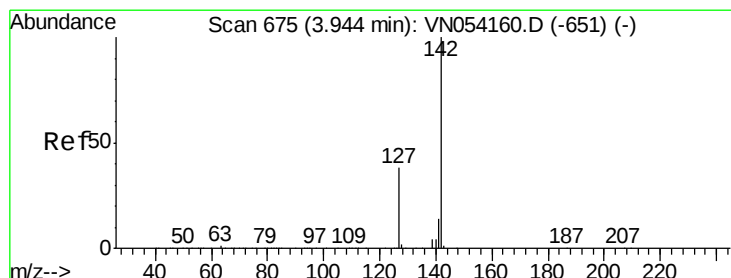
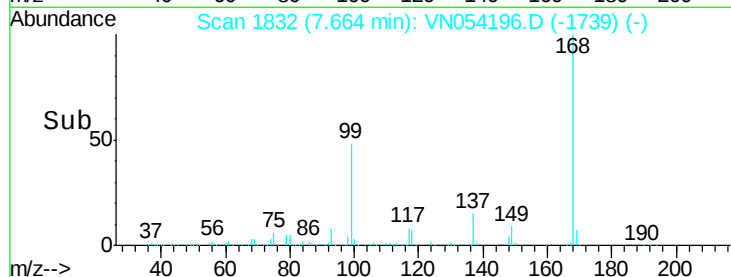
300000

200000

100000

0

Time-->



#10

Methyl Iodide

Concen: 1.507 ug/l

RT: 3.94 min Scan# 673

Delta R.T. -0.01 min

Lab File: VN054196.D

Acq: 13 Mar 2019 6:33

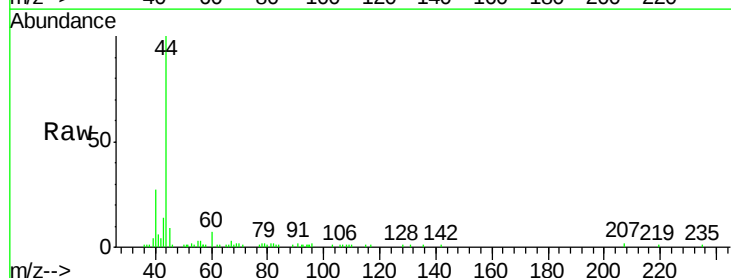
Tgt Ion:142 Resp: 214

Ion Ratio Lower Upper

142 100

127 0.0 30.3 45.5#

141 0.0 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

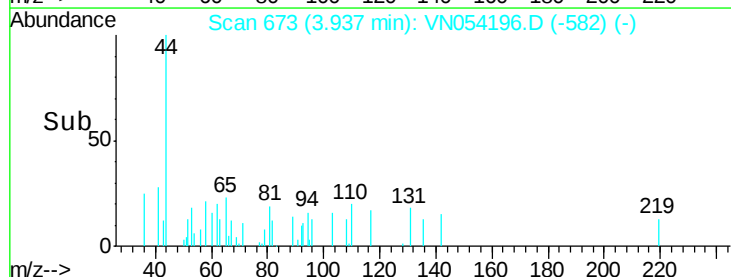
150

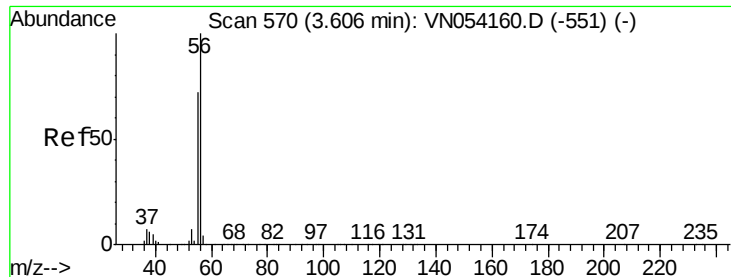
100

50

0

Time-->

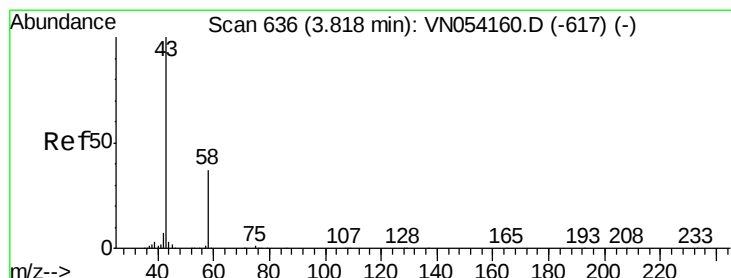
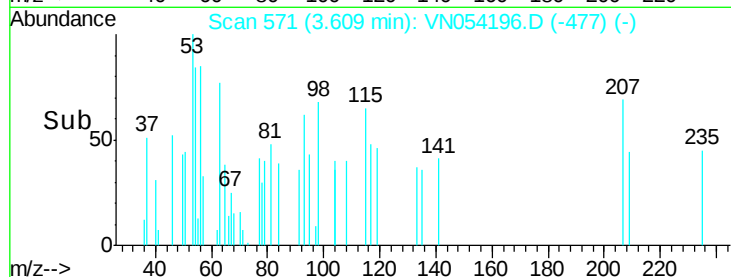
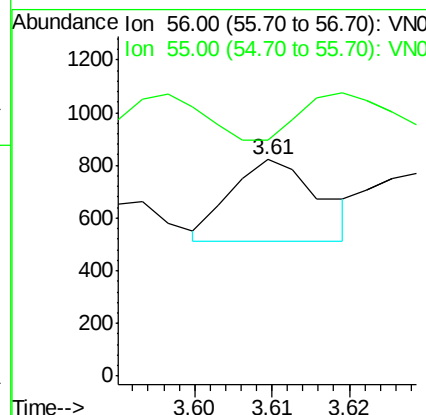
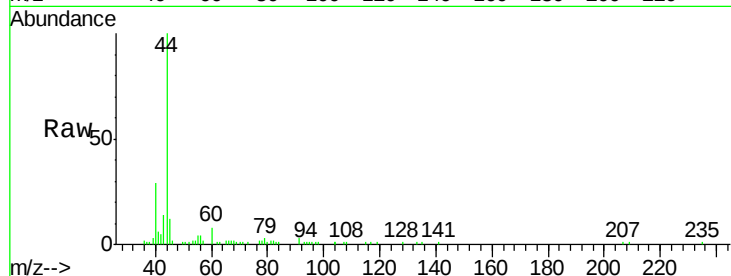




#13
Acrolein
Concen: 0.247 ug/l
RT: 3.61 min Scan# 571
Delta R.T. 0.00 min
Lab File: VN054196.D
Acq: 13 Mar 2019 6:33

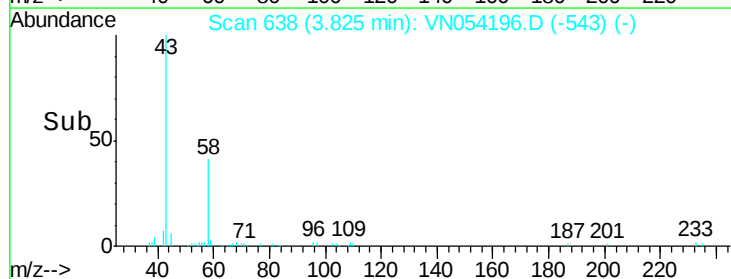
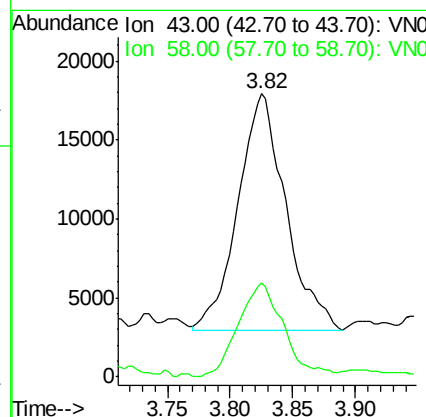
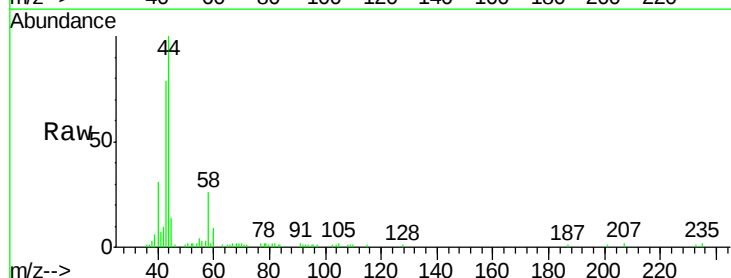
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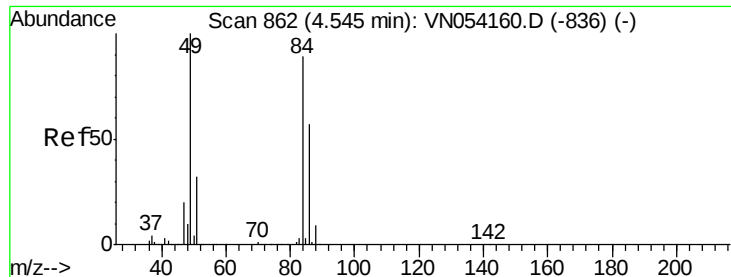
Tot Ion: 56 Resp: 245
Ion Ratio Lower Upper
56 100
55 95.1 56.7 85.1#



#16
Acetone
Concen: 9.067 ug/l
RT: 3.82 min Scan# 638
Delta R.T. 0.01 min
Lab File: VN054196.D
Acq: 13 Mar 2019 6:33

Tgt Ion: 43 Resp: 39628
Ion Ratio Lower Upper
43 100
58 39.9 29.9 44.9

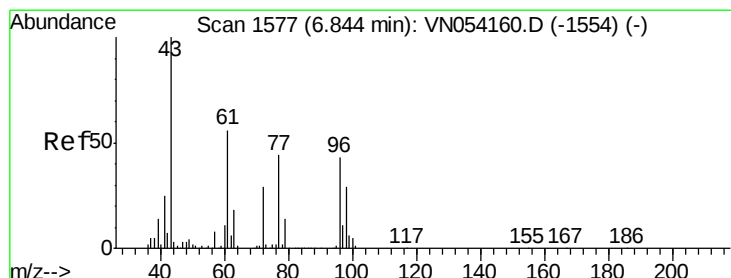
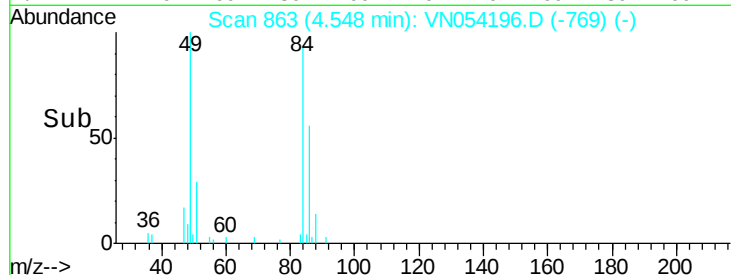
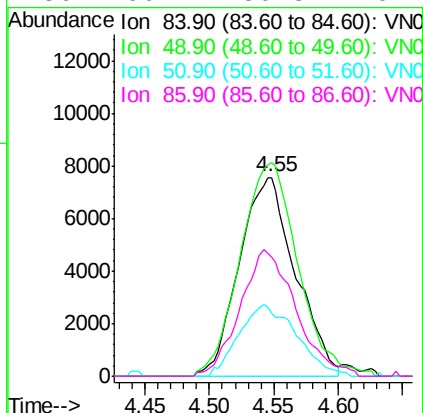
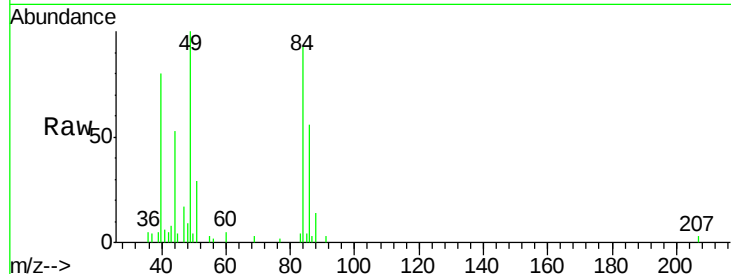




#20
Methvlene Chloride
Concen: 1.598 ug/l
RT: 4.55 min Scan# 863
Delta R.T. 0.00 min
Lab File: VN054196.D
Acq: 13 Mar 2019 6:33

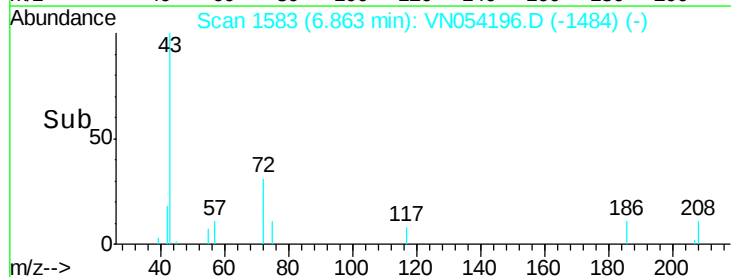
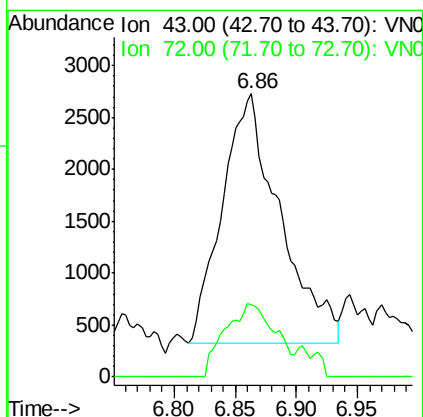
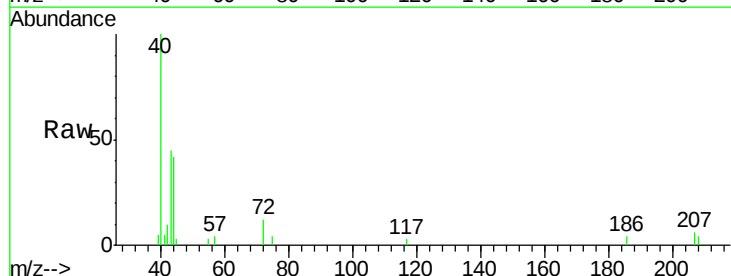
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MSVOA_N
ClientSampleId :
MR-MH-09-COMP

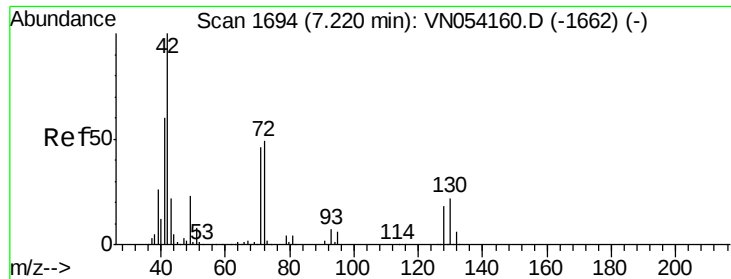
Tot Ion: 84 Resp: 22927
Ion Ratio Lower Upper
84 100
49 107.6 89.7 134.5
51 31.5 28.2 42.4
86 60.1 50.8 76.2



#25
2-Butanone
Concen: 1.548 ug/l
RT: 6.86 min Scan# 1583
Delta R.T. 0.02 min
Lab File: VN054196.D
Acq: 13 Mar 2019 6:33

Tgt Ion: 43 Resp: 7943
Ion Ratio Lower Upper
43 100
72 29.0 23.0 34.6

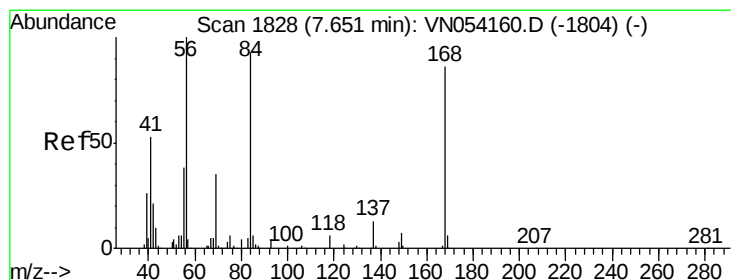
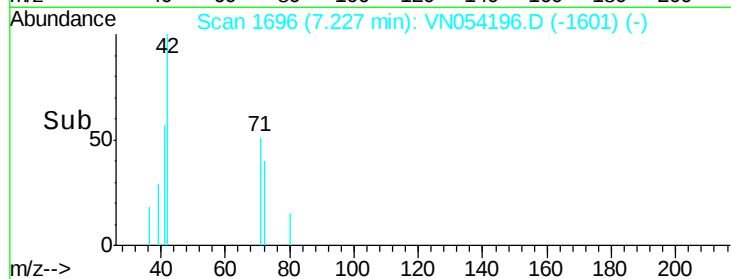
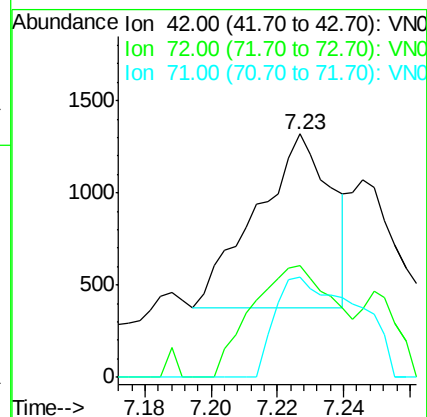
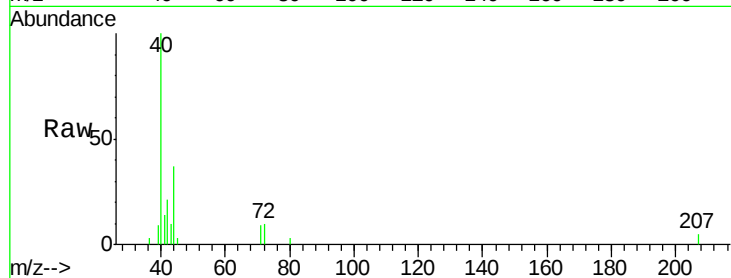




#29
Tetrahydrofuran
Concen: 0.451 ug/l
RT: 7.23 min Scan# 1696
Delta R.T. 0.01 min
Lab File: VN054196.D
Acq: 13 Mar 2019 6:33

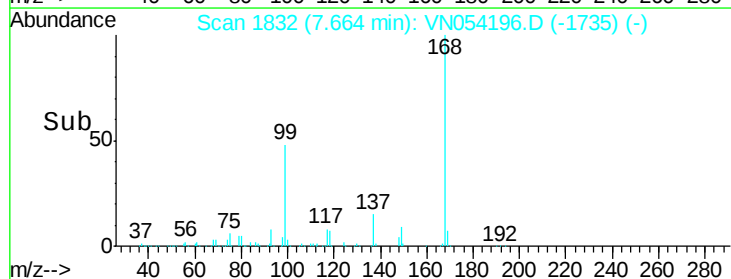
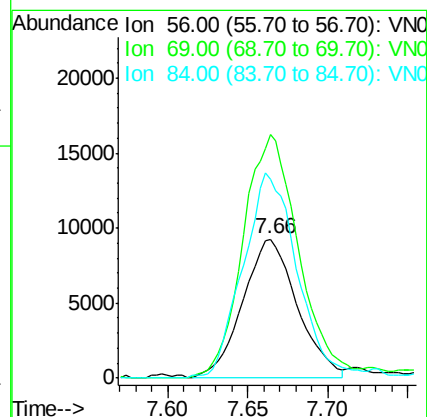
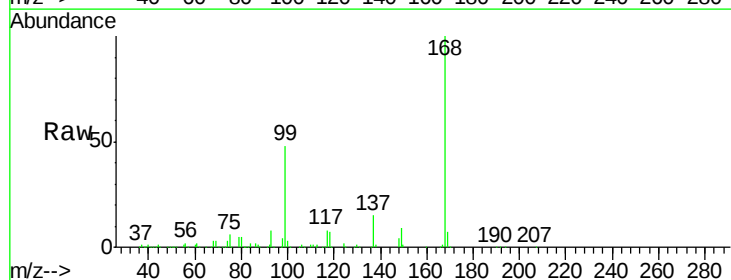
Instrument :
MSVOA_N
ClientSampleId :
MR-MH-09-COMP

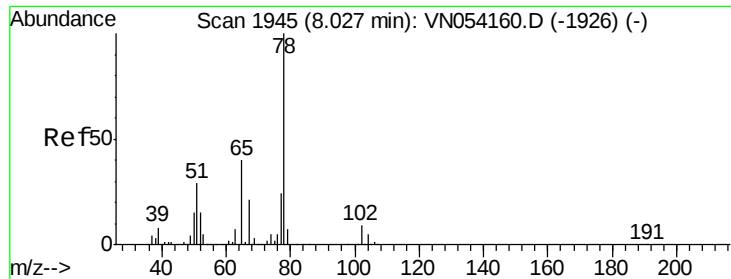
Tot Ion: 42 Resp: 1488
Ion Ratio Lower Upper
42 100
72 71.6 37.8 56.6#
71 63.0 36.2 54.2#



#31
Cyclohexane
Concen: Below Cal
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN054196.D
Acq: 13 Mar 2019 6:33

Tgt Ion: 56 Resp: 21802
Ion Ratio Lower Upper
56 100
69 174.0 27.8 41.6#
84 141.0 74.6 111.8#

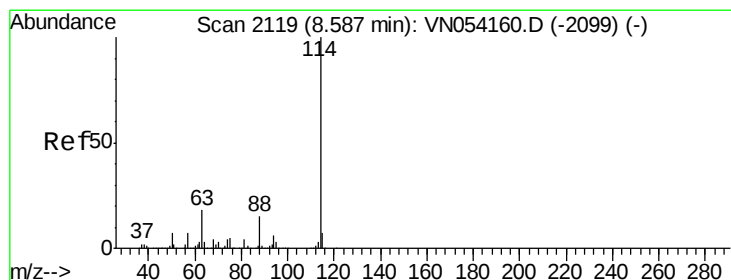
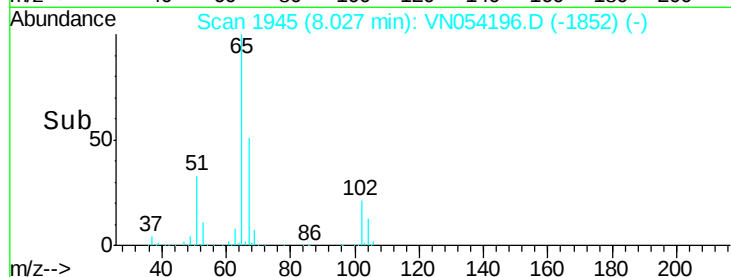
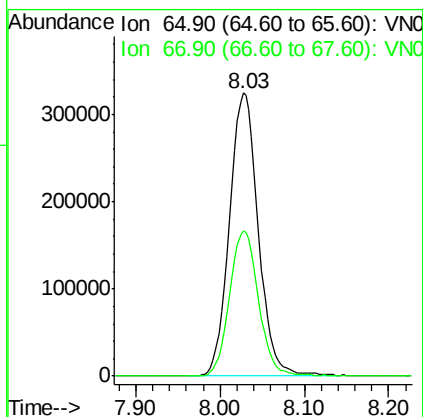
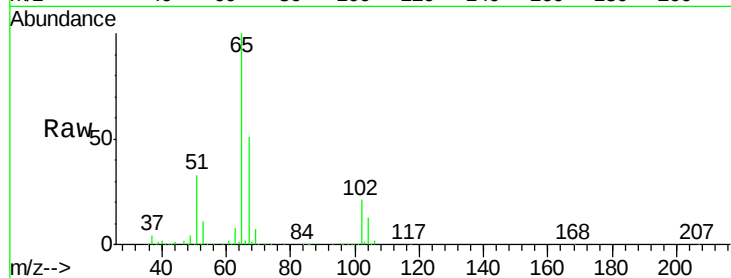




#33
 1,2-Dichloroethane-d4
 Concen: 50.660 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN054196.D
 Acq: 13 Mar 2019 6:33

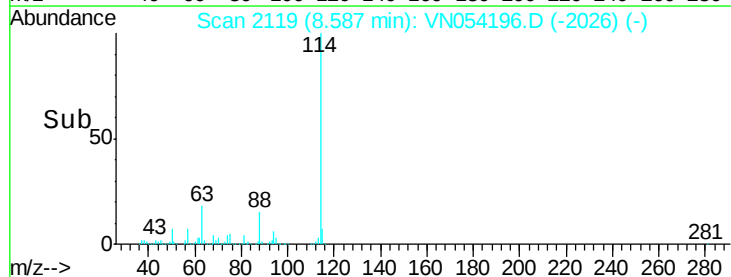
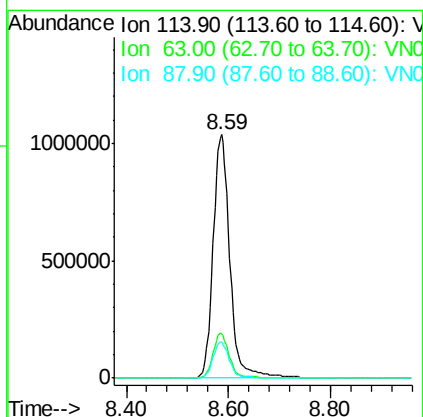
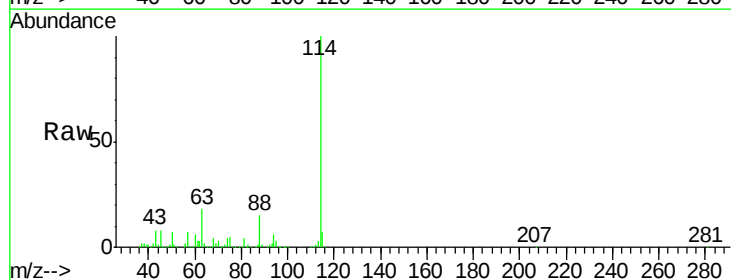
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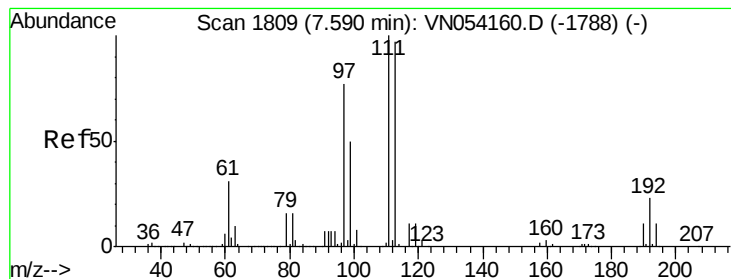
Tot Ion: 65 Resp: 773310
 Ion Ratio Lower Upper
 65 100
 67 51.6 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054196.D
 Acq: 13 Mar 2019 6:33

Tgt Ion: 114 Resp: 2360606
 Ion Ratio Lower Upper
 114 100
 63 18.3 0.0 35.2
 88 14.7 0.0 30.2





#35

Dibromofluoromethane

Concen: 47.336 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN054196.D

Acq: 13 Mar 2019 6:33

Instrument :

MSVOA_N

ClientSampleId :

MR-MH-09-COMP

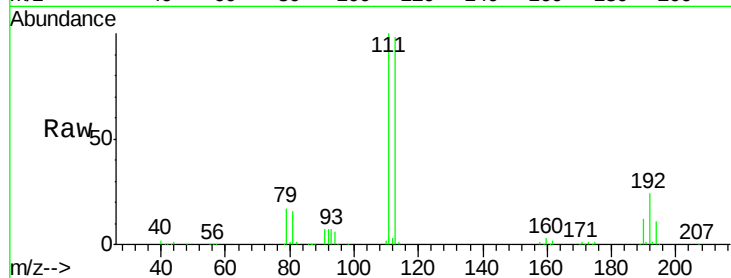
Tot Ion:113 Resp: 720688

Ion Ratio Lower Upper

113 100

111 102.0 82.2 123.4

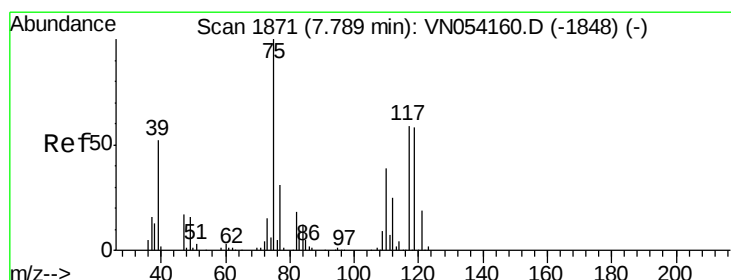
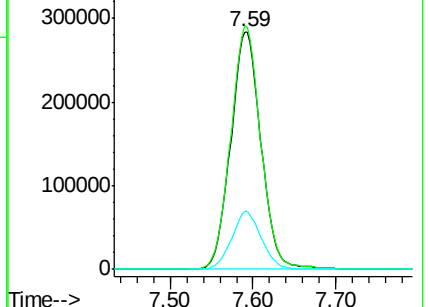
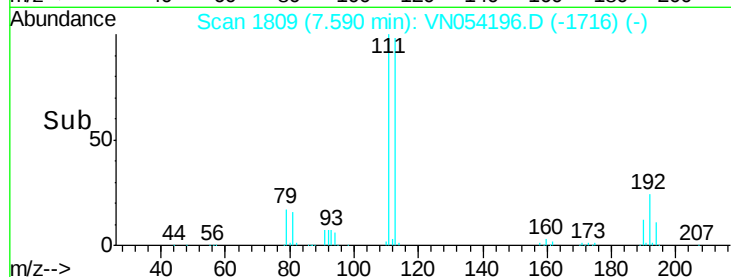
192 24.0 19.2 28.8



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 3.717 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN054196.D

Acq: 13 Mar 2019 6:33

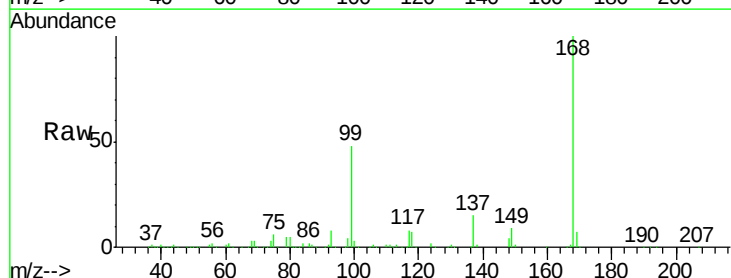
Tgt Ion: 75 Resp: 80808

Ion Ratio Lower Upper

75 100

110 9.2 19.1 57.5#

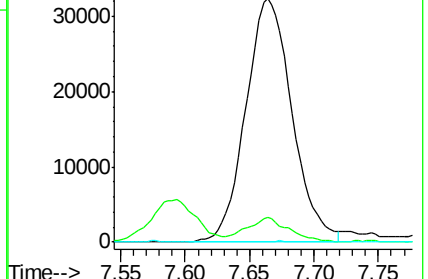
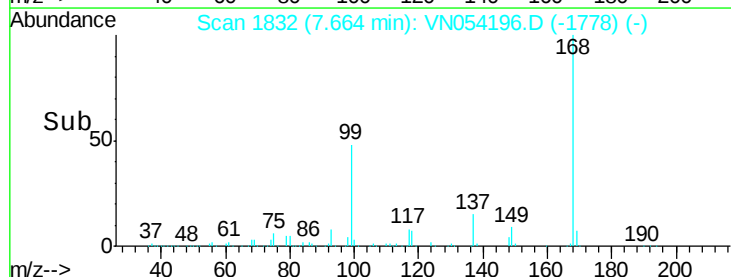
77 0.0 25.0 37.4#

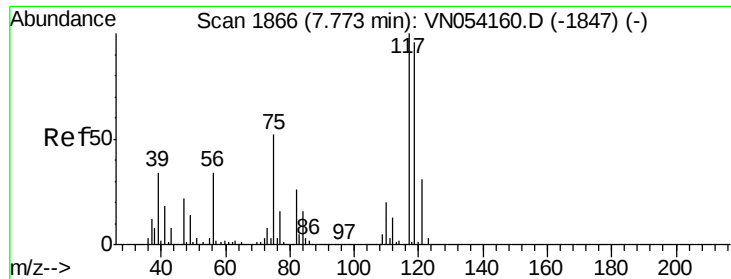


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

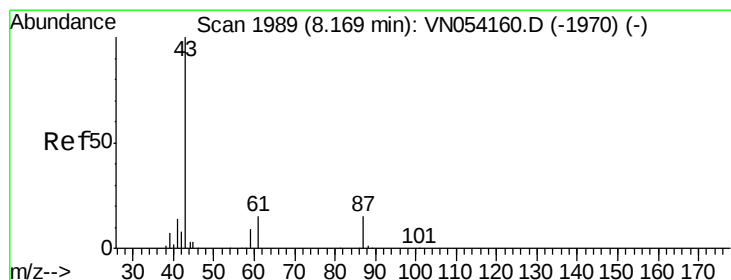
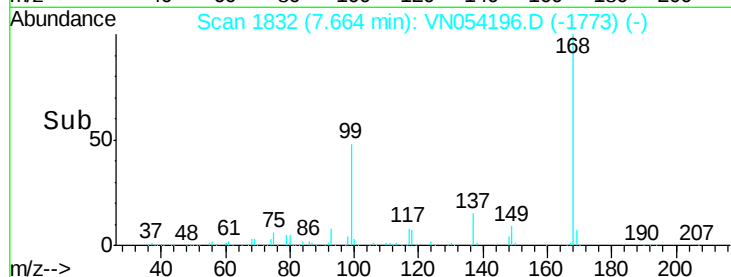
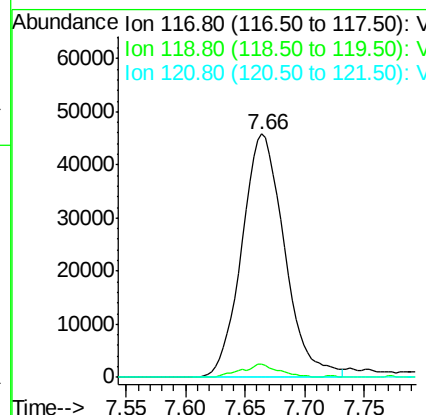
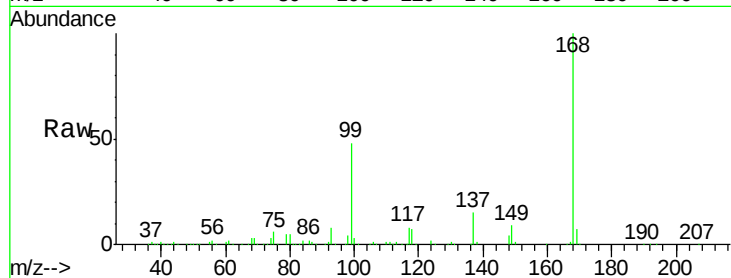




#38
Carbon Tetrachloride
Concen: 5.008 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. -0.11 min
Lab File: VN054196.D
Acq: 13 Mar 2019 6:33

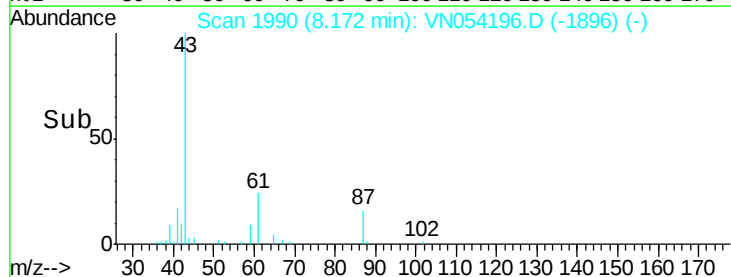
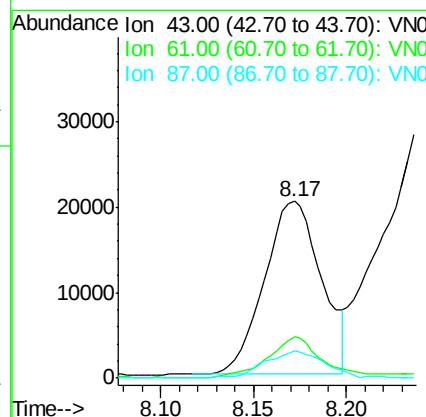
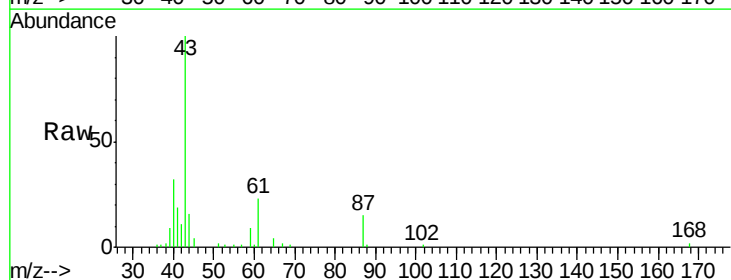
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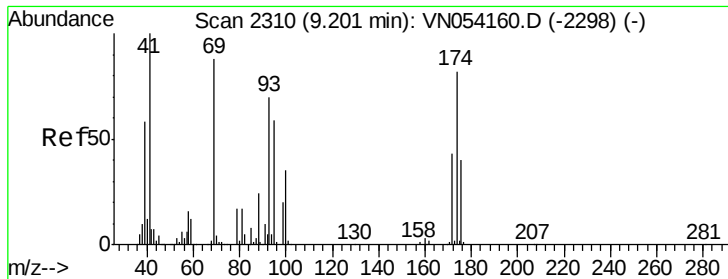
Tot Ion:117 Resp: 114172
Ion Ratio Lower Upper
117 100
119 5.5 76.3 114.5#
121 0.0 24.6 36.8#



#43
Isopropyl Acetate
Concen: 1.983 ug/l
RT: 8.17 min Scan# 1990
Delta R.T. 0.00 min
Lab File: VN054196.D
Acq: 13 Mar 2019 6:33

Tgt Ion: 43 Resp: 43484
Ion Ratio Lower Upper
43 100
61 22.8 15.8 23.8
87 16.3 12.0 18.0

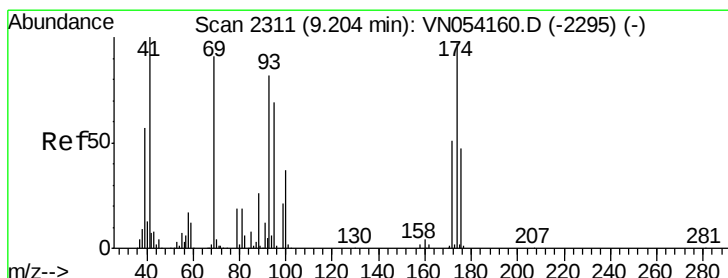
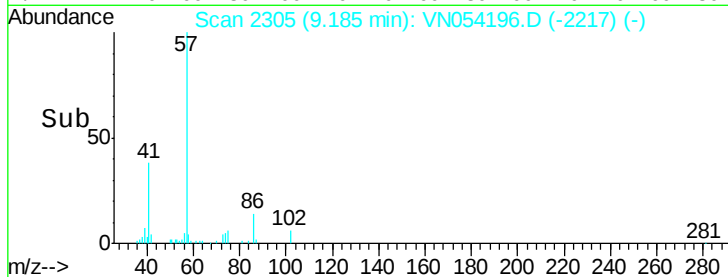
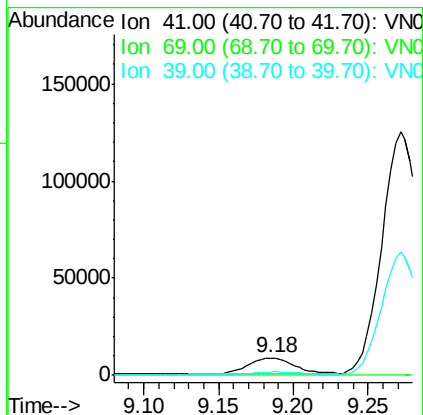
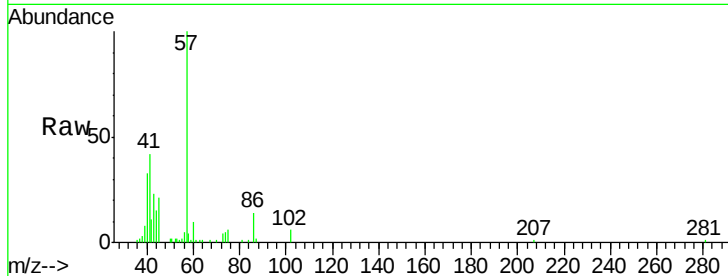




#48
Methvl methacrylate
Concen: 1.691 ug/l
RT: 9.18 min Scan# 2305
Delta R.T. -0.02 min
Lab File: VN054196.D
Acq: 13 Mar 2019 6:33

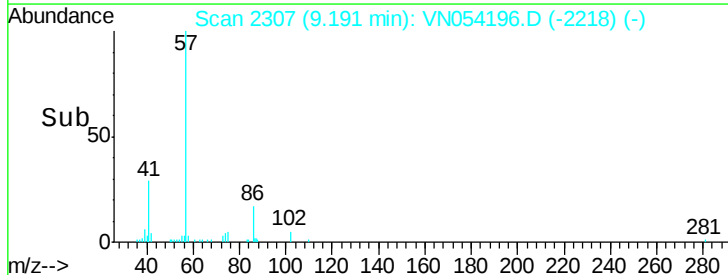
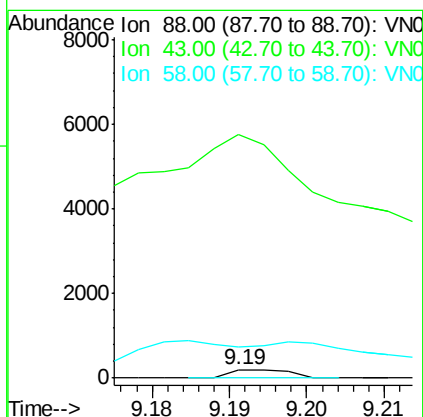
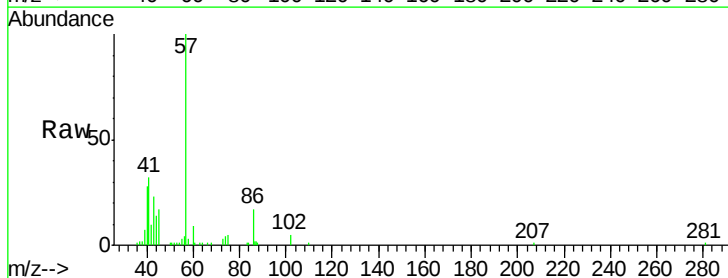
Instrument :
MSVOA_N
ClientSampleId :
MR-MH-09-COMP

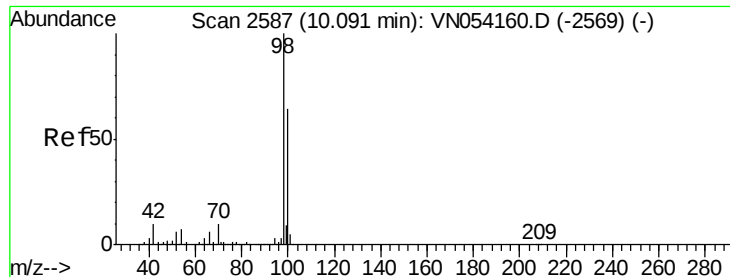
Tot Ion: 41 Resp: 18813
Ion Ratio Lower Upper
41 100
69 0.7 72.6 108.8#
39 0.0 47.5 71.3#



#49
1,4-Dioxane
Concen: 0.635 ug/l
RT: 9.19 min Scan# 2307
Delta R.T. -0.01 min
Lab File: VN054196.D
Acq: 13 Mar 2019 6:33

Tgt Ion: 88 Resp: 100
Ion Ratio Lower Upper
88 100
43 0.0 24.1 36.1#
58 1060.0 50.8 76.2#





#50

Toluene-d8

Concen: 52.210 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054196.D

Acq: 13 Mar 2019 6:33

Instrument :

MSVOA_N

ClientSampleId :

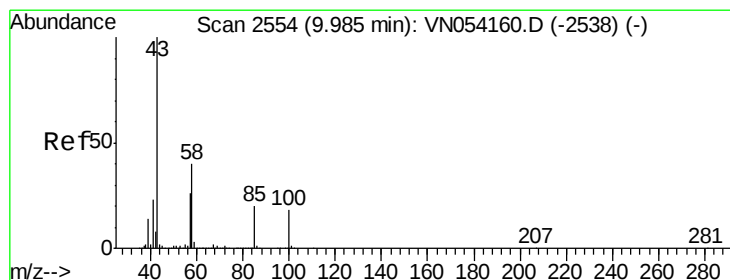
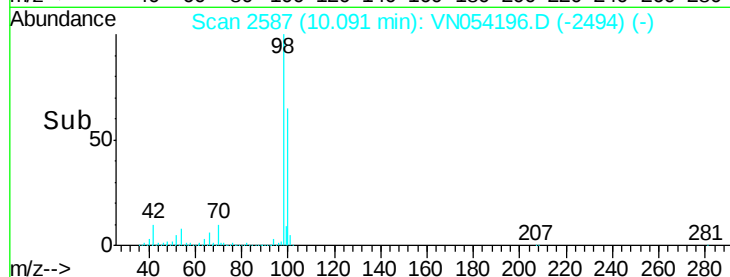
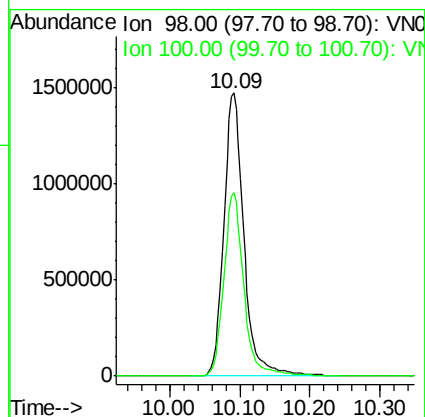
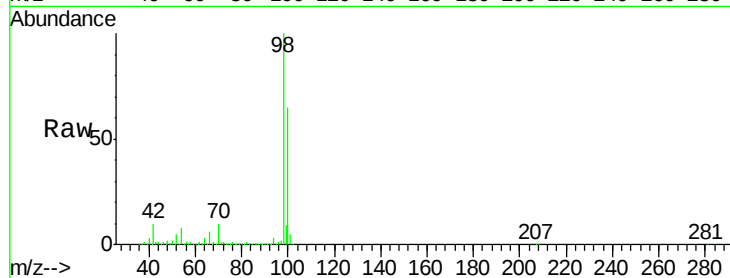
MR-MH-09-COMP

Tot Ion: 98 Resp: 2935663

Ion Ratio Lower Upper

98 100

100 64.3 51.2 76.8



#51

4-Methyl-2-Pentanone

Concen: 1.348 ug/l

RT: 10.03 min Scan# 2567

Delta R.T. 0.04 min

Lab File: VN054196.D

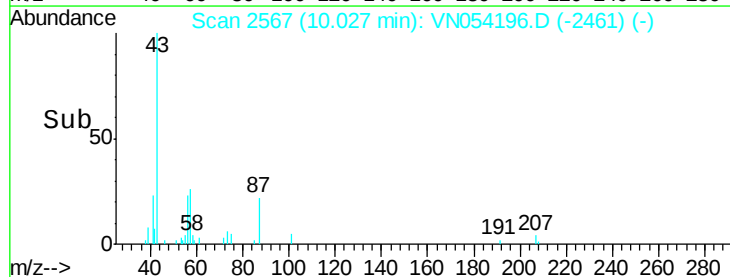
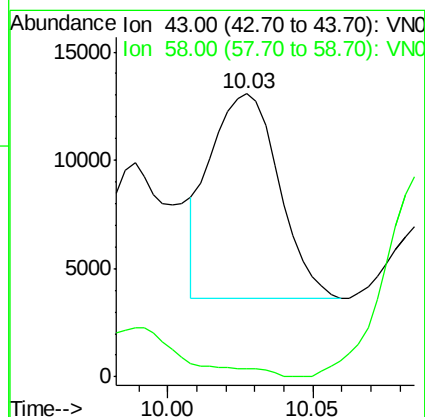
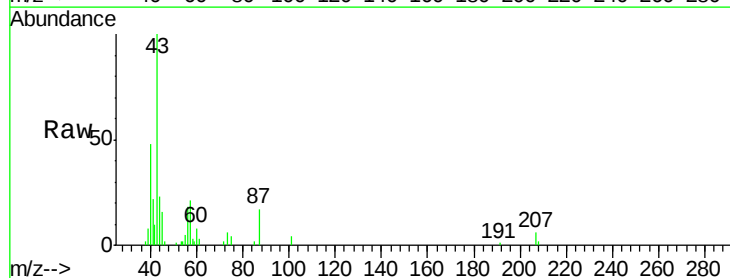
Acq: 13 Mar 2019 6:33

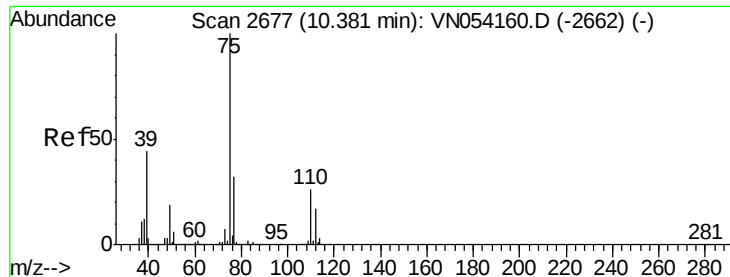
Tgt Ion: 43 Resp: 15639

Ion Ratio Lower Upper

43 100

58 0.0 31.8 47.6#





#53

t-1,3-Dichloropropene

Concen: 1.988 ug/l

RT: 10.38 min Scan# 2676

Delta R.T. -0.00 min

Lab File: VN054196.D

Acq: 13 Mar 2019 6:33

Instrument :

MSVOA_N

ClientSampleId :

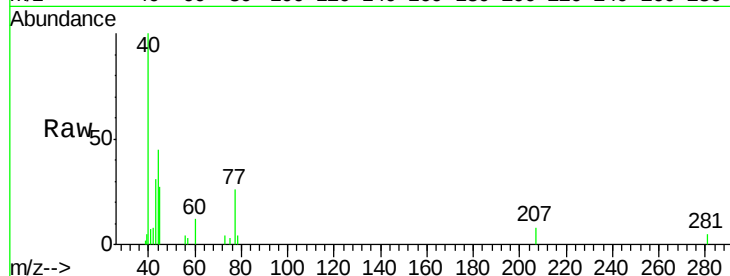
MR-MH-09-COMP

Tot Ion: 75 Resp: 63

Ion Ratio Lower Upper

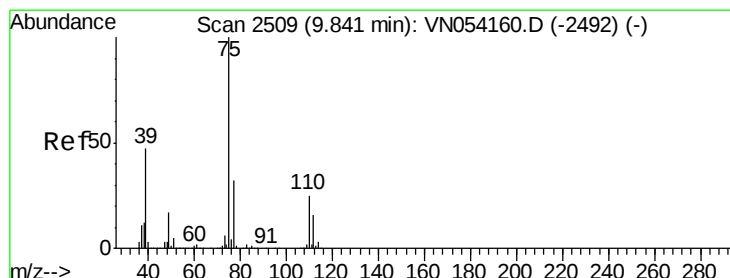
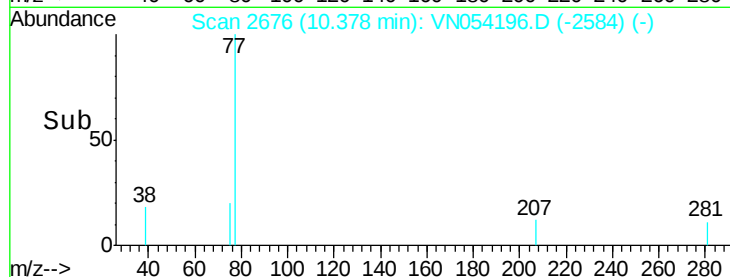
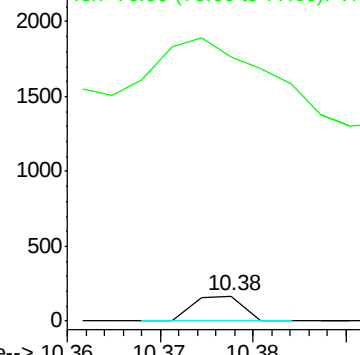
75 100

77 106.5 25.8 38.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#54

cis-1,3-Dichloropropene

Concen: 6.163 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN054196.D

Acq: 13 Mar 2019 6:33

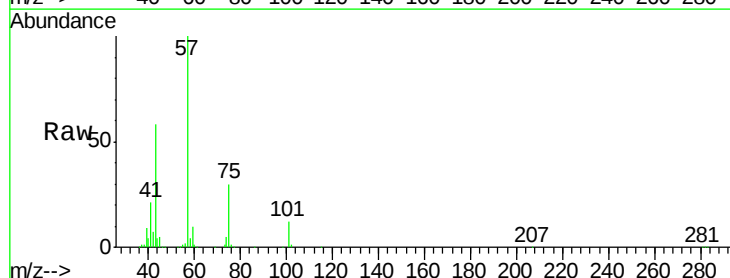
Tgt Ion: 75 Resp: 150274

Ion Ratio Lower Upper

75 100

77 0.5 25.4 38.0#

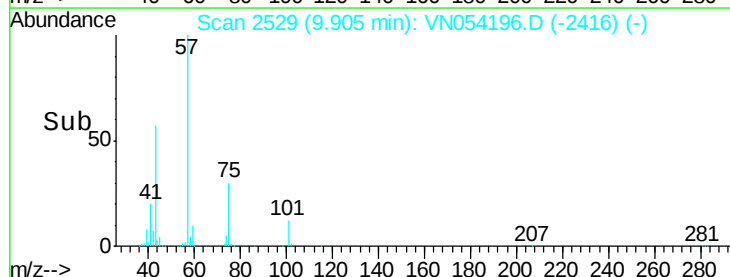
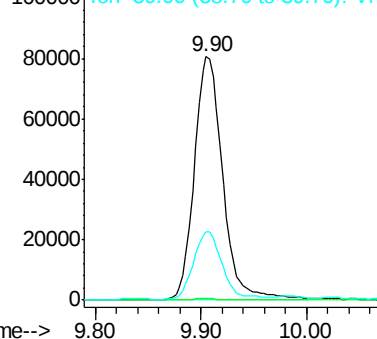
39 27.8 37.2 55.8#

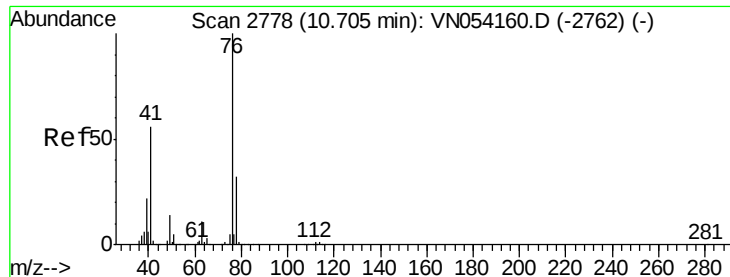


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 1.099 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN054196.D

Acq: 13 Mar 2019 6:33

Instrument :

MSVOA_N

ClientSampleId :

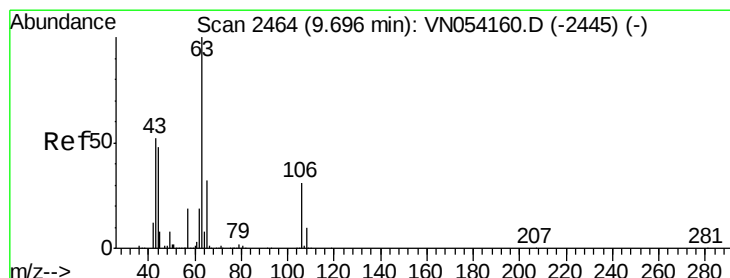
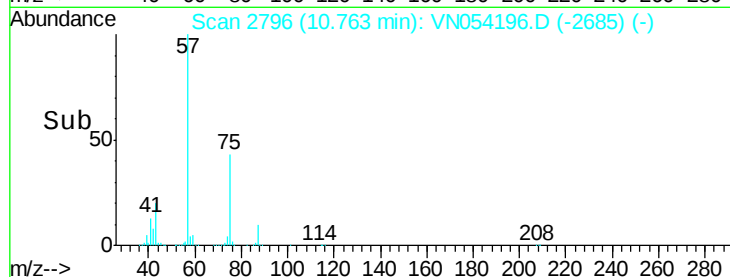
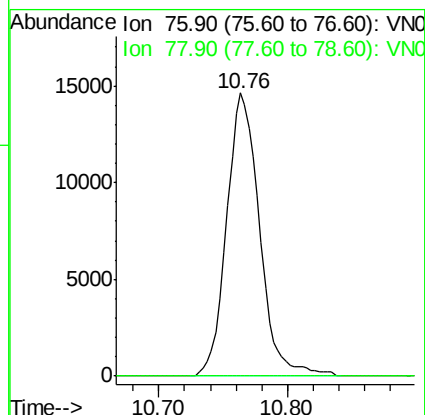
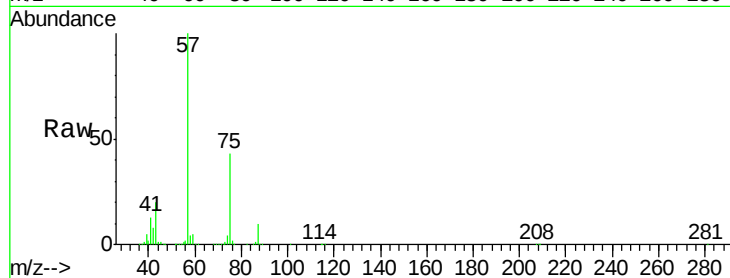
MR-MH-09-COMP

Tot Ion: 76 Resp: 25893

Ion Ratio Lower Upper

76 100

78 0.0 25.7 38.5#



#58

2-Chloroethyl Vinyl ether

Concen: 16.840 ug/l

RT: 9.70 min Scan# 2465

Delta R.T. 0.00 min

Lab File: VN054196.D

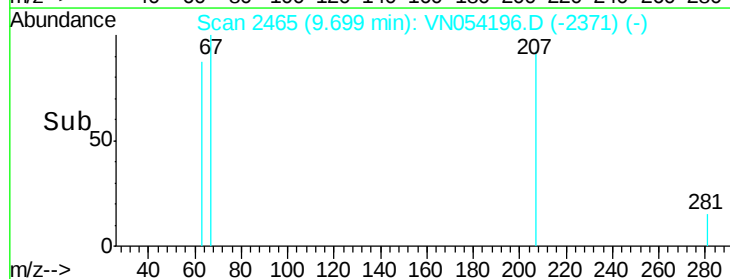
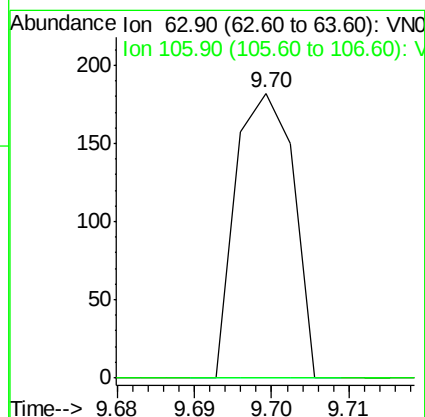
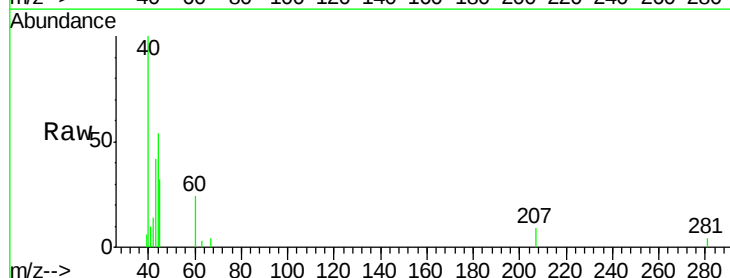
Acq: 13 Mar 2019 6:33

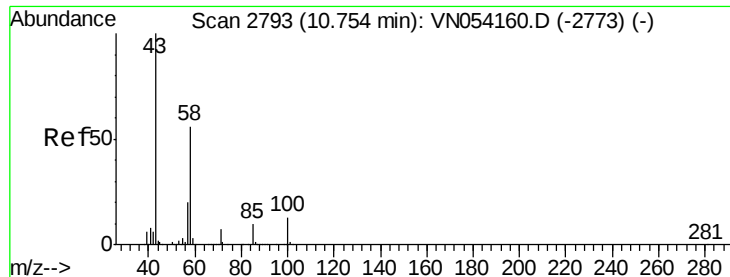
Tgt Ion: 63 Resp: 94

Ion Ratio Lower Upper

63 100

106 0.0 24.4 36.6#

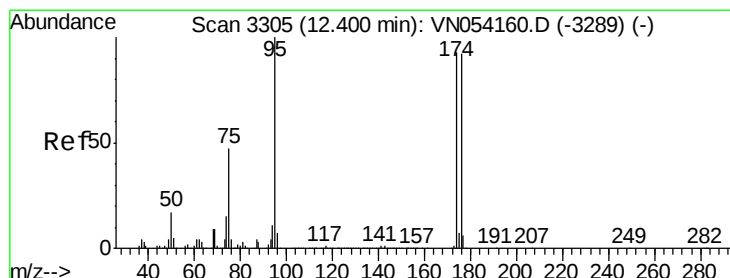
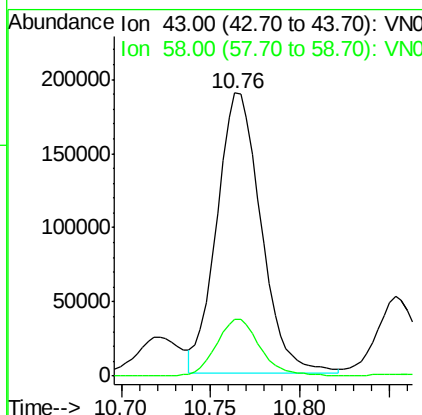
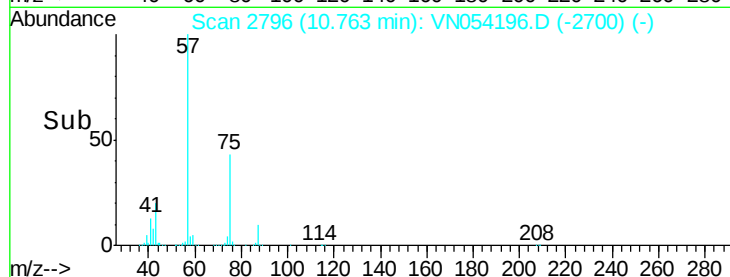
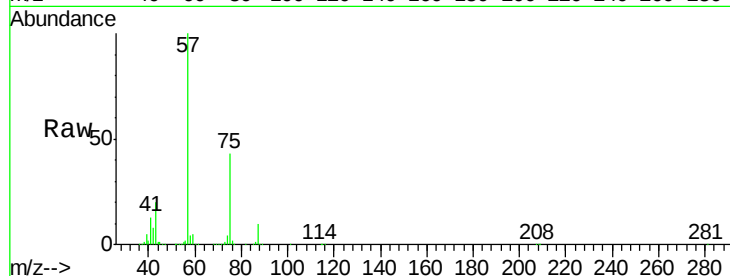




#59
2-Hexanone
Concen: 42.041 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN054196.D
Acq: 13 Mar 2019 6:33

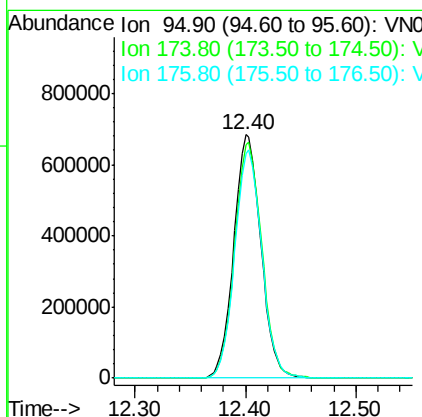
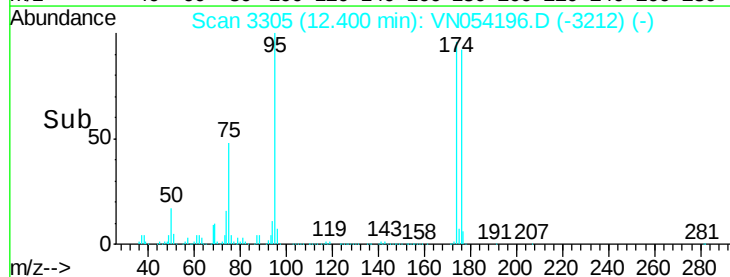
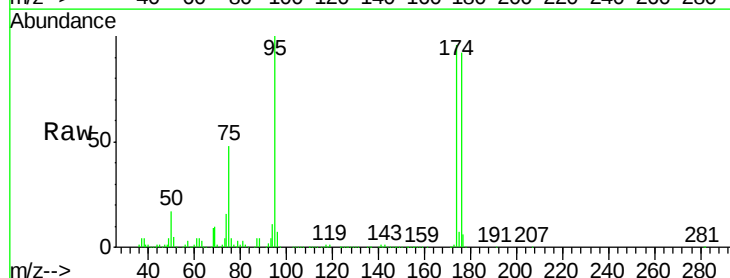
Instrument :
MSVOA_N
ClientSampleId :
MR-MH-09-COMP

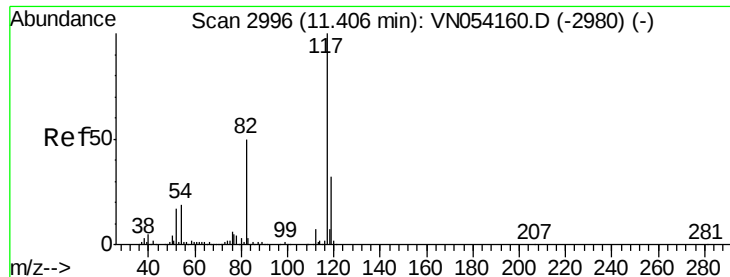
Tot Ion: 43 Resp: 324578
Ion Ratio Lower Upper
43 100
58 20.4 28.0 83.9#



#62
4-Bromofluorobenzene
Concen: 59.268 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN054196.D
Acq: 13 Mar 2019 6:33

Tgt Ion: 95 Resp: 1166060
Ion Ratio Lower Upper
95 100
174 97.0 0.0 191.0
176 93.5 0.0 187.4

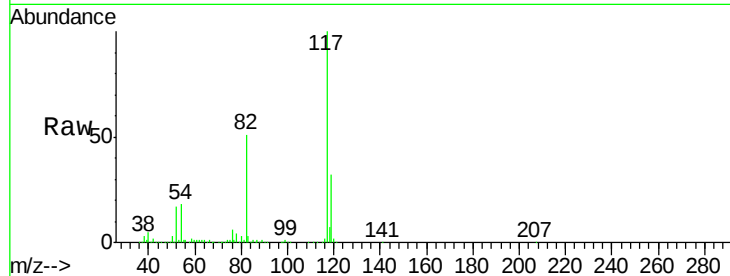




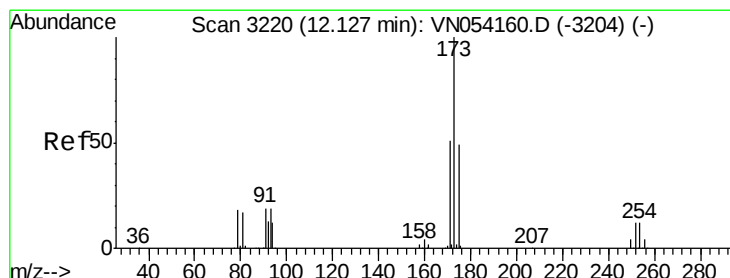
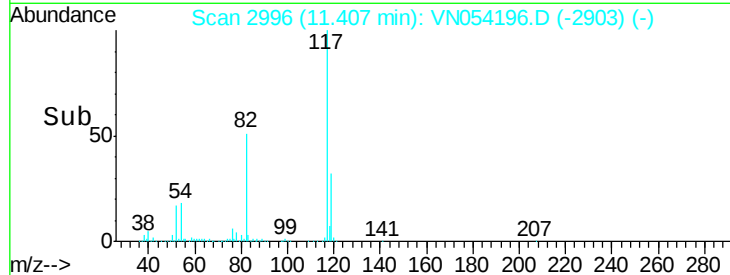
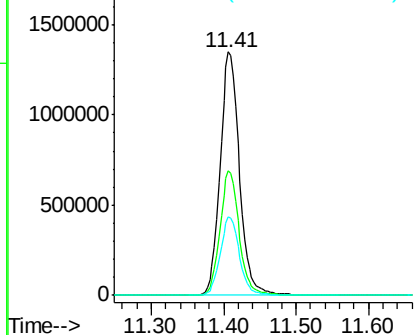
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN054196.D
Acq: 13 Mar 2019 6:33

Instrument :
MSVOA_N
ClientSampleId :
MR-MH-09-COMP

Tot Ion:117 Resp: 2484010
Ion Ratio Lower Upper
117 100
82 51.1 40.0 60.0
119 32.1 25.8 38.6

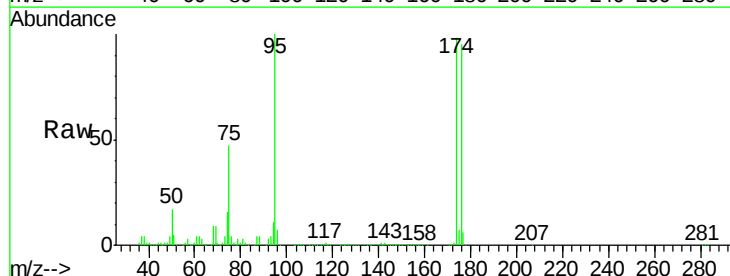


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

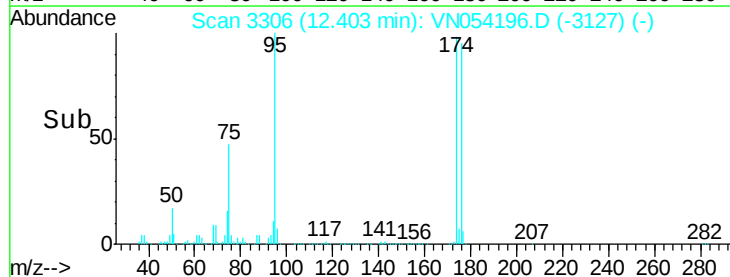
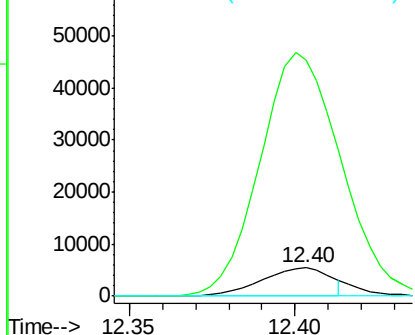


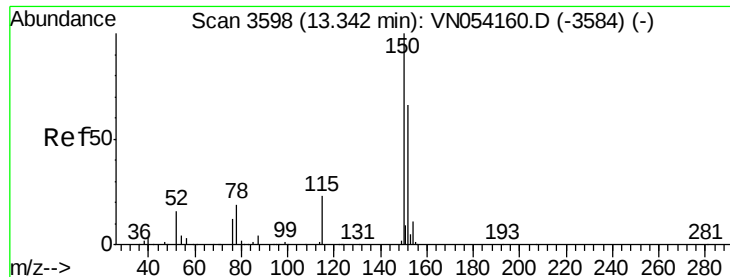
#71
Bromoform
Concen: 2.847 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN054196.D
Acq: 13 Mar 2019 6:33

Tgt Ion:173 Resp: 7873
Ion Ratio Lower Upper
173 100
175 871.1 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: VN054196.D

Acq: 13 Mar 2019 6:33

Instrument :

MSVOA_N

ClientSampleId :

MR-MH-09-COMP

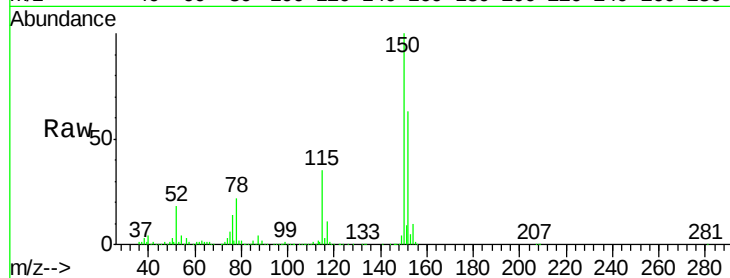
Tot Ion:152 Resp: 1131300

Ion Ratio Lower Upper

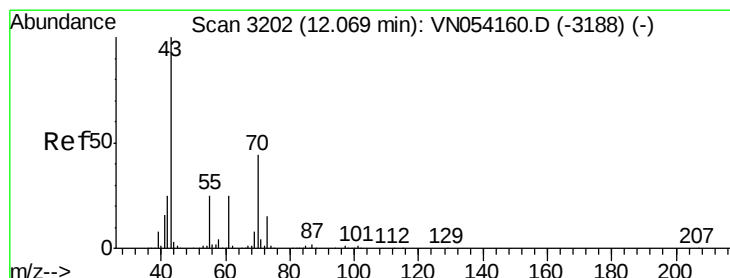
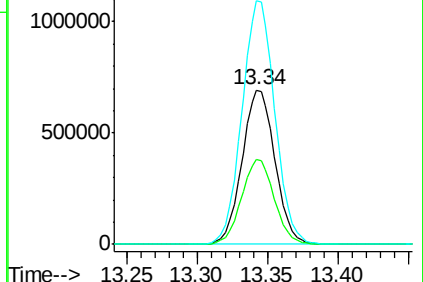
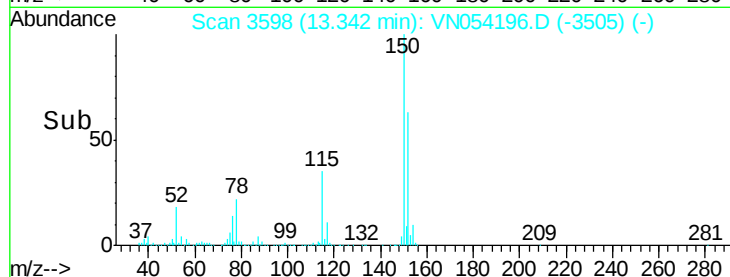
152 100

115 54.8 27.2 81.6

150 157.7 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: 1.457 ug/l

RT: 11.88 min Scan# 3143

Delta R.T. -0.19 min

Lab File: VN054196.D

Acq: 13 Mar 2019 6:33

Tgt Ion: 43 Resp: 29281

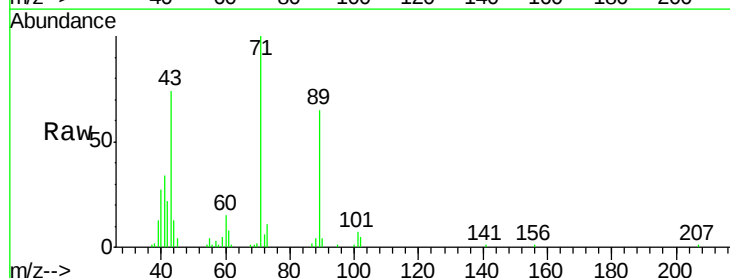
Ion Ratio Lower Upper

43 100

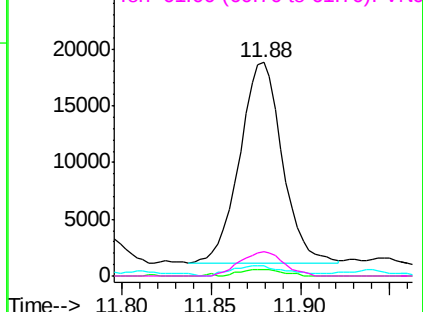
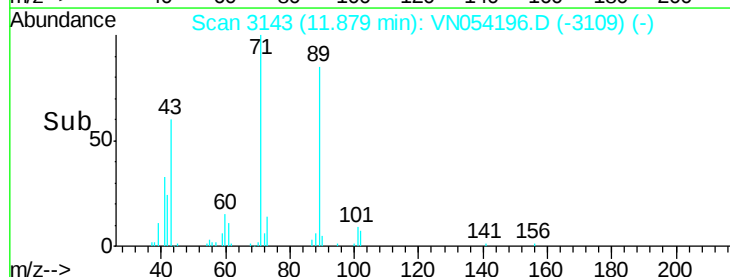
70 3.3 35.4 53.0#

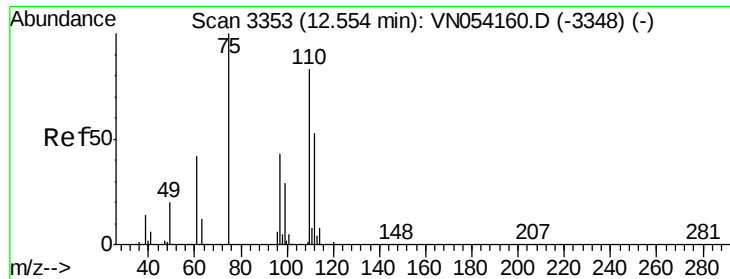
55 6.6 19.8 29.6#

61 12.2 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: 33.457 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054196.D

Acq: 13 Mar 2019 6:33

Instrument :

MSVOA_N

ClientSampleId :

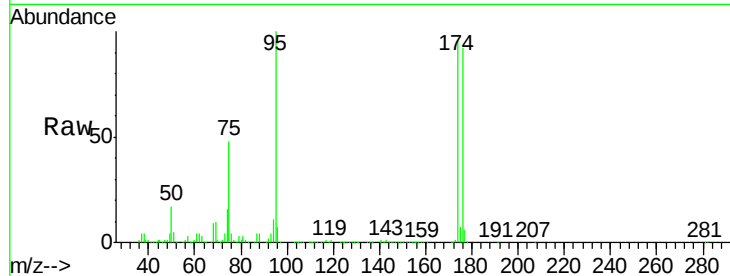
MR-MH-09-COMP

Tot Ion: 75 Resp: 556601

Ion Ratio Lower Upper

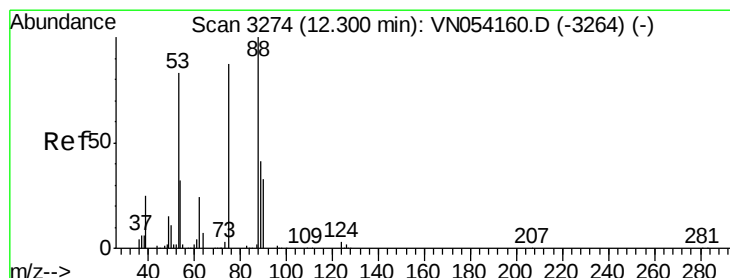
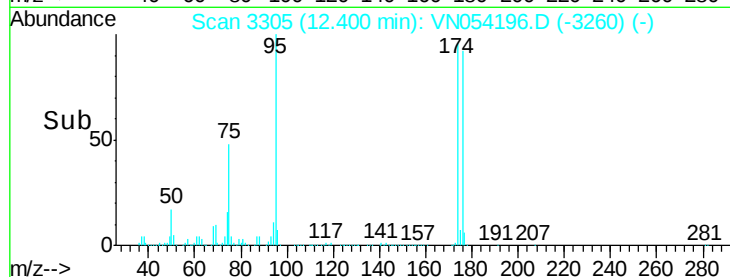
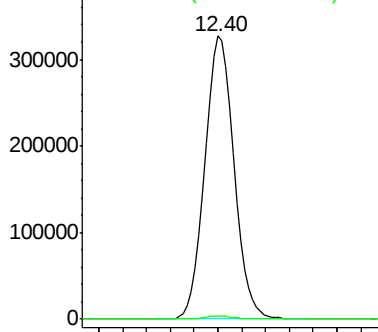
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 114.371 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054196.D

Acq: 13 Mar 2019 6:33

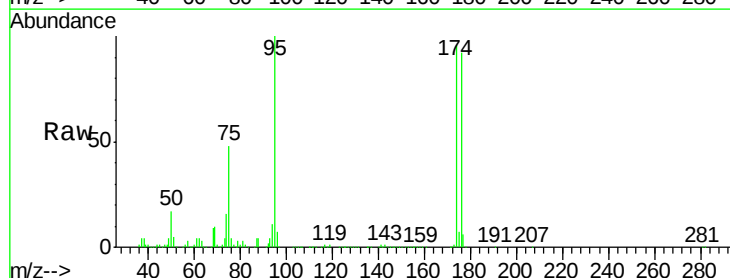
Tgt Ion: 75 Resp: 556601

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

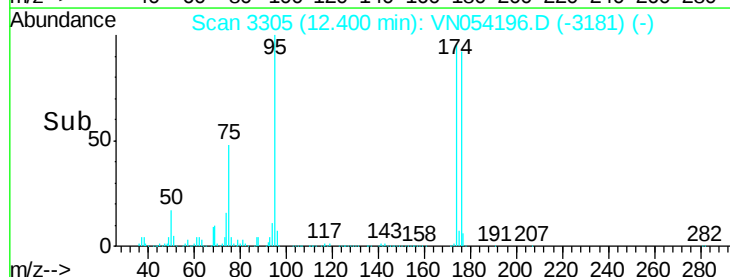
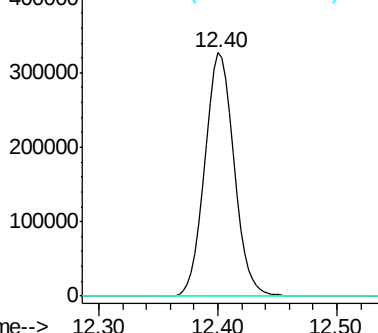
89 0.0 39.2 58.8#

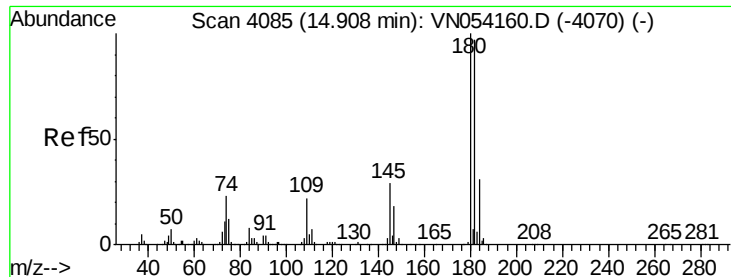


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#93

1,2,4-Trichlorobenzene

Concen: 2.542 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN054196.D

Acq: 13 Mar 2019 6:33

Instrument :

MSVOA_N

ClientSampleId :

MR-MH-09-COMP

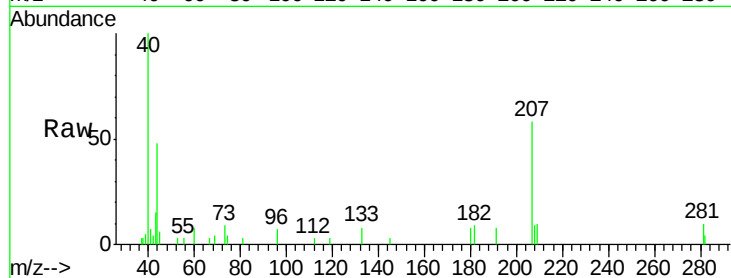
Tot Ion:180 Resp: 633

Ion Ratio Lower Upper

180 100

182 120.9 48.0 144.2

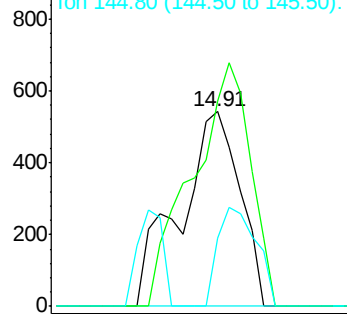
145 32.9 14.2 42.8



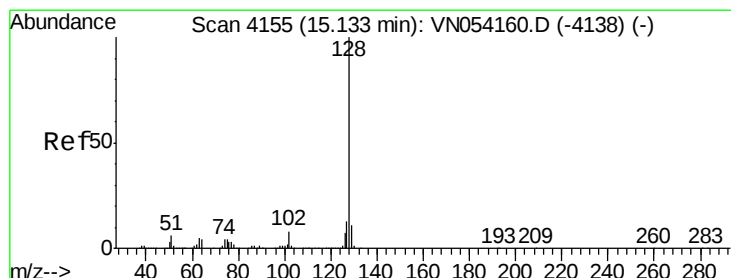
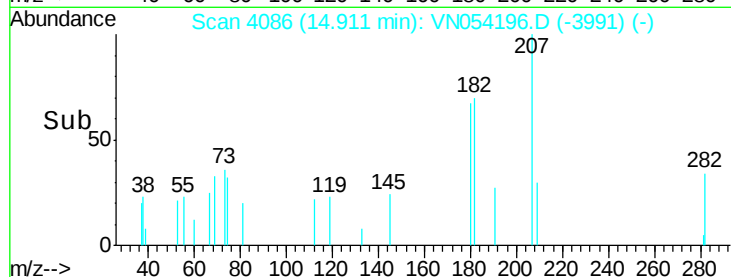
Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



Time-->



#95

Naphthalene

Concen: 3.613 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN054196.D

Acq: 13 Mar 2019 6:33

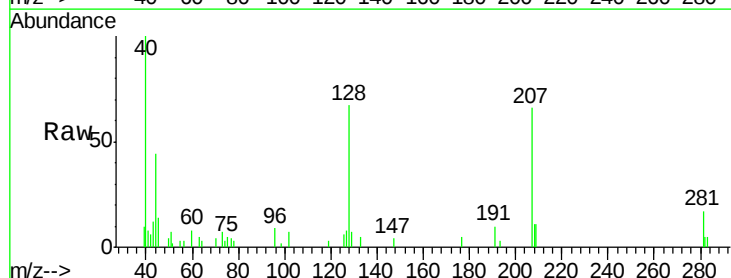
Tgt Ion:128 Resp: 7645

Ion Ratio Lower Upper

128 100

127 13.6 10.1 15.1

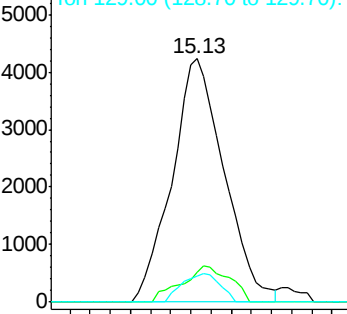
129 8.5 8.7 13.1#



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



Time-->

