

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082719\
 Data File : VN057546.D
 Acq On : 27 Aug 2019 11:09
 Operator : JC/SP
 Sample : K4523-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TT-005-IDW/GW-20190823

Quant Time: Sep 03 04:00:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Aug 23 23:15:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	65148	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	362662	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	271258	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	185613	29.55	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.50%
60) 4-Bromofluorobenzene	12.40	95	99993	22.35	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	74.50%
63) Toluene-d8	10.09	98	458922	33.50	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	111.67%

Target Compounds

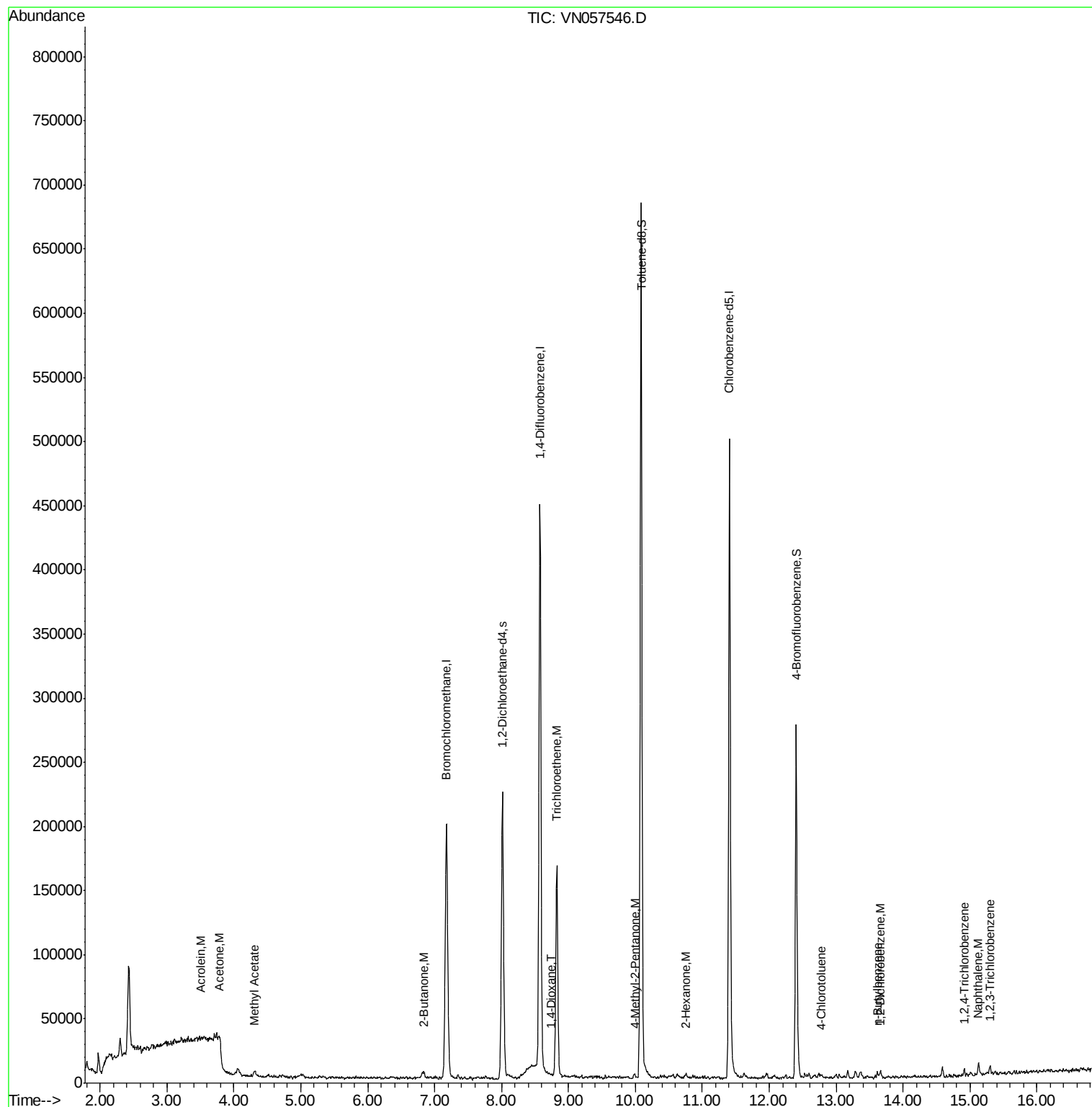
					Ovalue
12) Methyl Acetate	4.32	43	8680	1.532 ug/l #	87
13) Acrolein	3.51	56	271	0.376 ug/l	91
15) Acetone	3.79	58	1183	1.285 ug/l	80
30) 2-Butanone	6.84	43	4562	1.539 ug/l #	83
37) Trichloroethene	8.82	130	51604	12.479 ug/l	100
45) 1,4-Dioxane	8.74	88	142	2.146 ug/l #	1
58) 4-Methyl-2-Pentanone	9.98	43	1764	0.331 ug/l #	69
59) 2-Hexanone	10.76	43	1657	0.449 ug/l #	80
78) 4-Chlorotoluene	12.78	91	2079	0.201 ug/l	67
85) n-Butylbenzene	13.62	91	2291	0.209 ug/l	97
87) 1,2-Dichlorobenzene	13.66	146	1405	0.279 ug/l #	81
89) 1,2,4-Trichlorobenzene	14.92	180	1229	0.652 ug/l #	44
91) Naphthalene	15.13	128	5572	10.340 ug/l #	75
92) 1,2,3-Trichlorobenzene	15.29	180	1293	0.685 ug/l	72

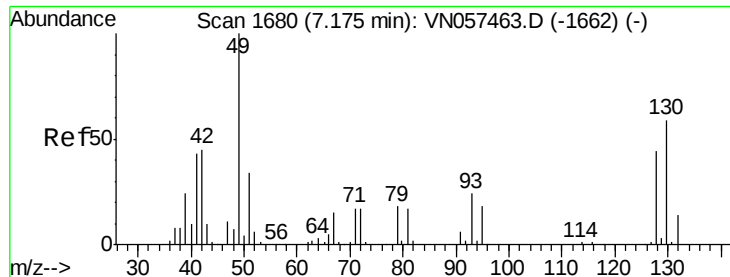
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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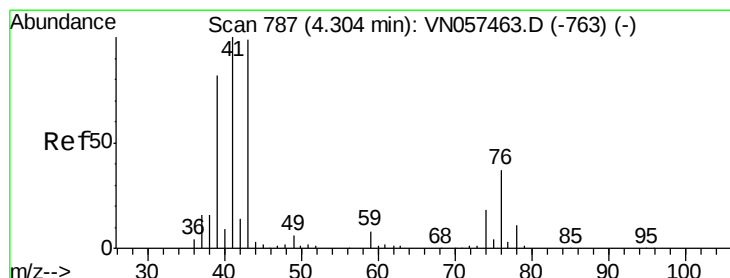
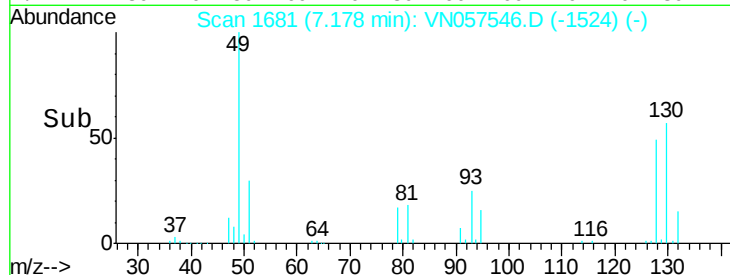
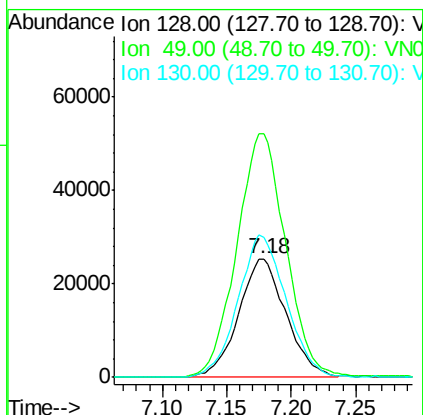
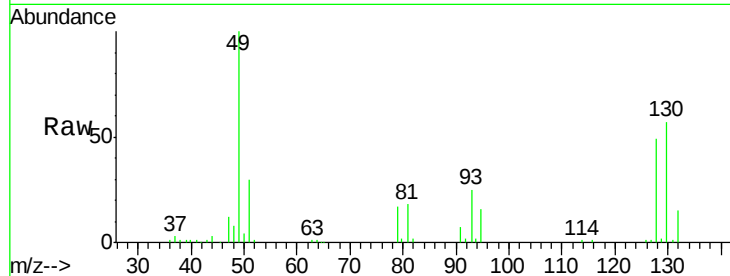




#1
 Bromochloromethane
 Concen: 30.000 ug/l
 RT: 7.18 min Scan# 1681
 Delta R.T. 0.00 min
 Lab File: VN057546.D
 Acq: 27 Aug 2019 11:09

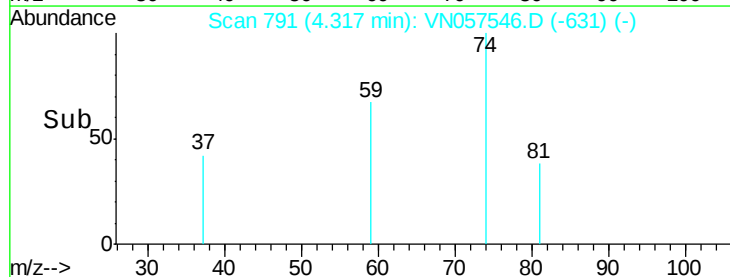
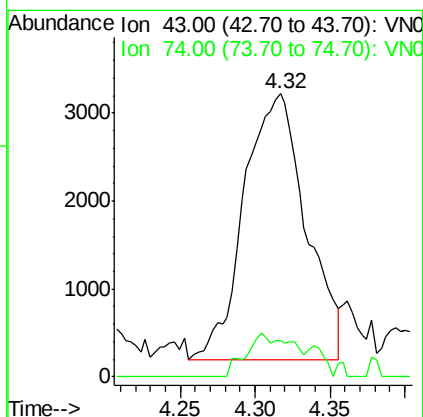
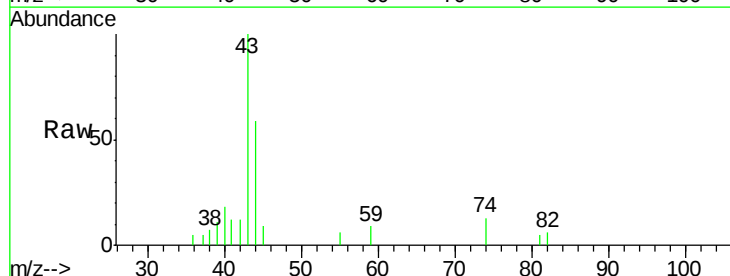
Instrument :
 MSVOA_N
 ClientSampleId :
 TT-005-IDW/GW-20190823

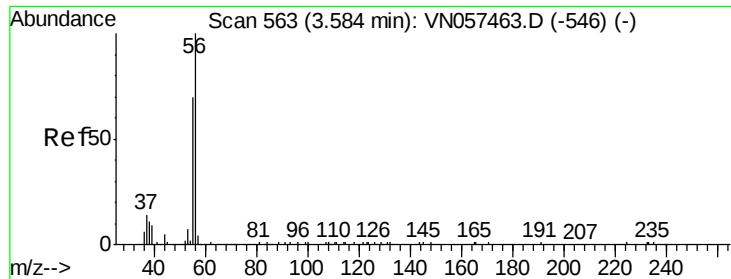
Tot Ion:128 Resp: 65148
 Ion Ratio Lower Upper
 128 100
 49 211.3 0.0 560.5
 130 121.7 0.0 317.3



#12
 Methyl Acetate
 Concen: 1.532 ug/l
 RT: 4.32 min Scan# 791
 Delta R.T. 0.01 min
 Lab File: VN057546.D
 Acq: 27 Aug 2019 11:09

Tgt Ion: 43 Resp: 8680
 Ion Ratio Lower Upper
 43 100
 74 12.4 14.6 22.0#

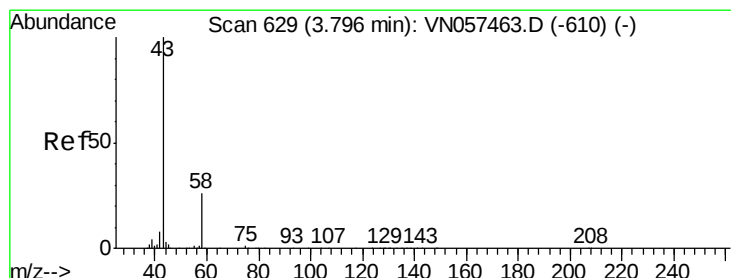
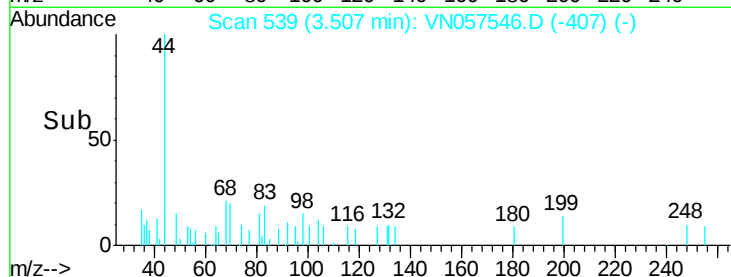
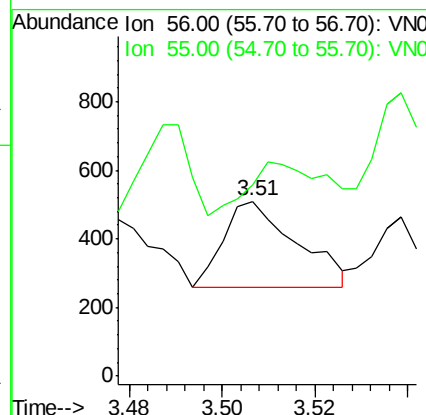
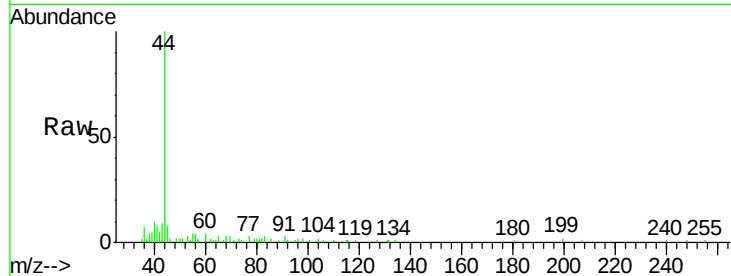




#13
Acrolein
Concen: 0.376 ug/l
RT: 3.51 min Scan# 539
Delta R.T. -0.08 min
Lab File: VN057546.D
Acq: 27 Aug 2019 11:09

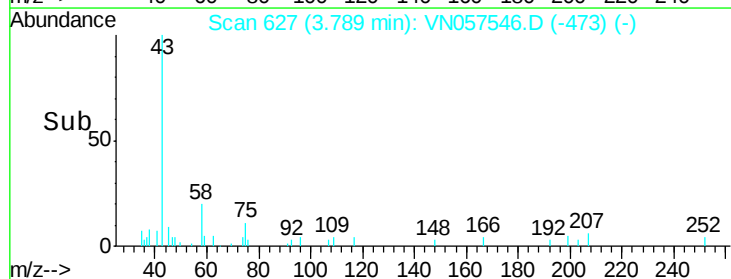
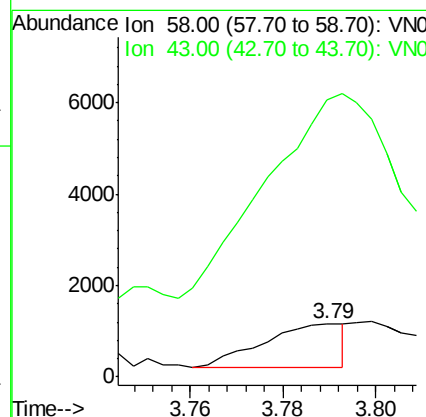
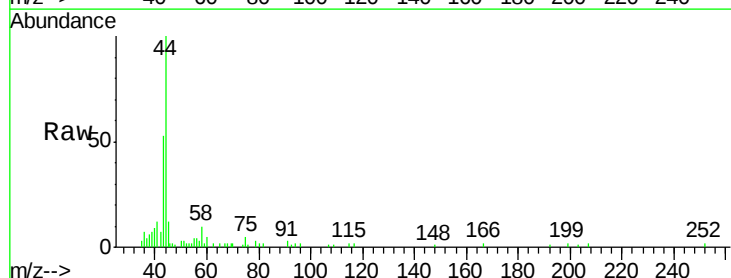
Instrument :
MSVOA_N
ClientSampleId :
TT-005-IDW/GW-20190823

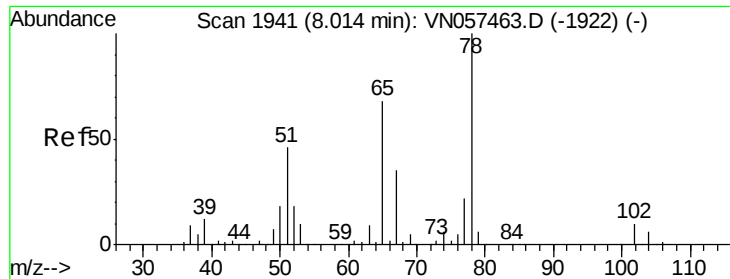
Tot Ion: 56 Resp: 271
Ion Ratio Lower Upper
56 100
55 78.2 56.7 85.1



#15
Acetone
Concen: 1.285 ug/l
RT: 3.79 min Scan# 627
Delta R.T. -0.01 min
Lab File: VN057546.D
Acq: 27 Aug 2019 11:09

Tgt Ion: 58 Resp: 1183
Ion Ratio Lower Upper
58 100
43 427.2 304.4 456.6

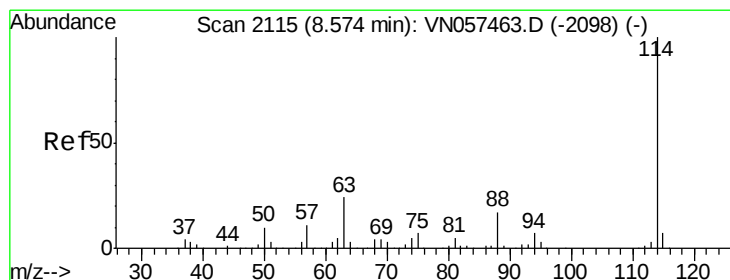
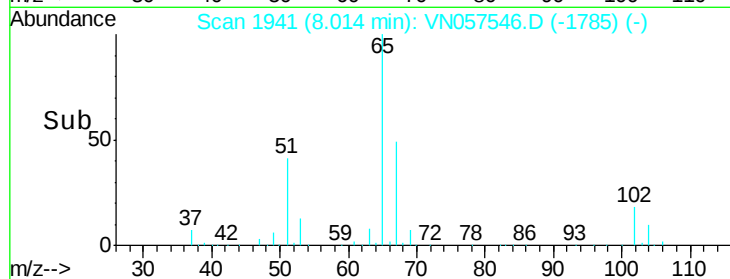
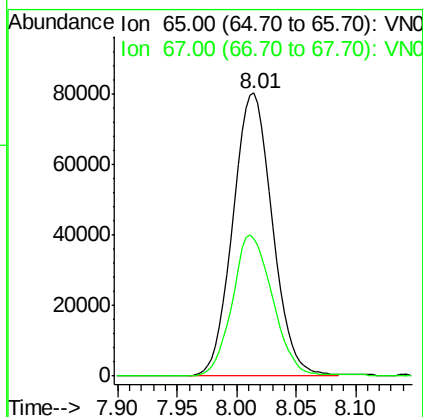
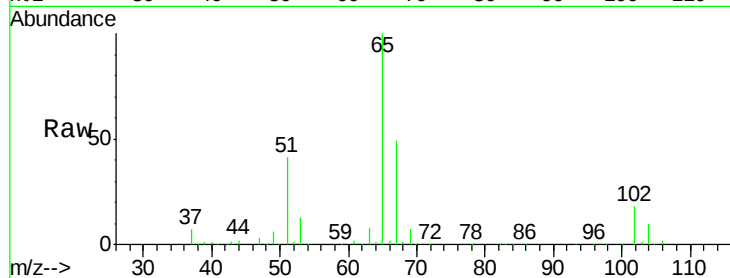




#27
 1,2-Dichloroethane-d4
 Concen: 29.553 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN057546.D
 Acq: 27 Aug 2019 11:09

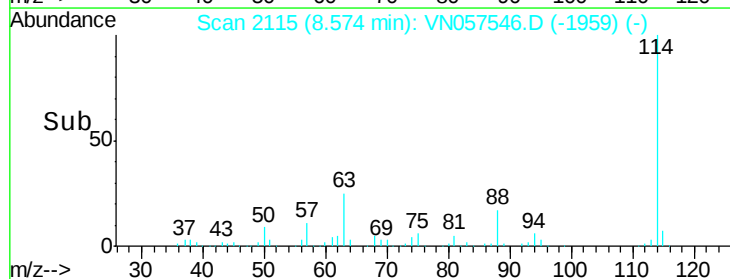
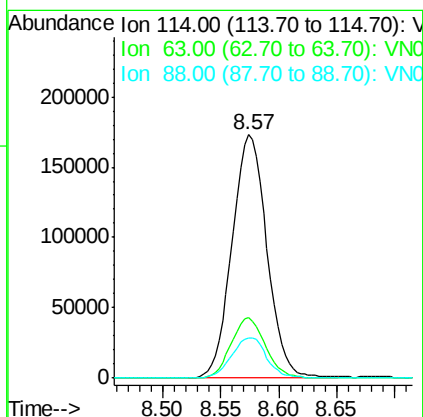
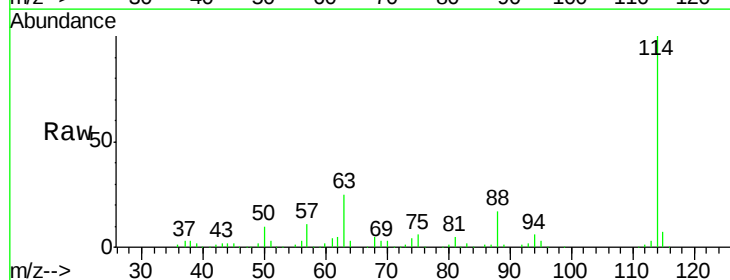
Instrument :
 MSVOA_N
 ClientSampleId :
 TT-005-IDW/GW-20190823

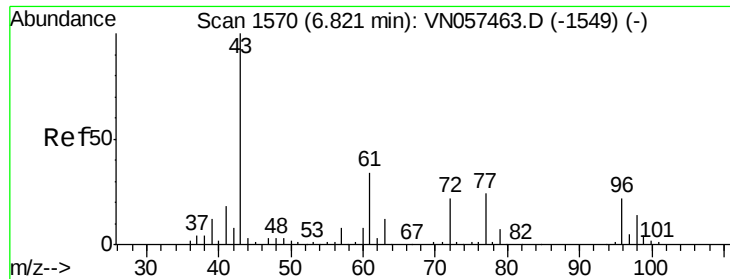
Tot Ion: 65 Resp: 185613
 Ion Ratio Lower Upper
 65 100
 67 50.8 40.2 60.4



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN057546.D
 Acq: 27 Aug 2019 11:09

Tgt Ion: 114 Resp: 362662
 Ion Ratio Lower Upper
 114 100
 63 24.4 19.6 29.4
 88 16.8 13.1 19.7

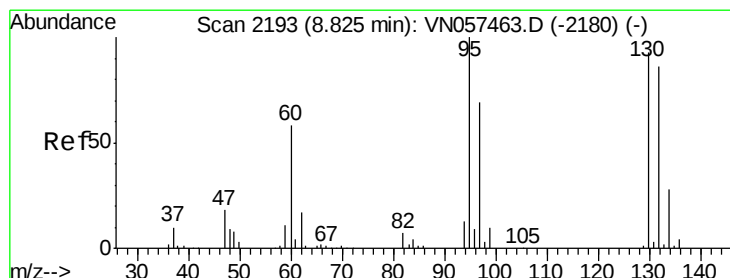
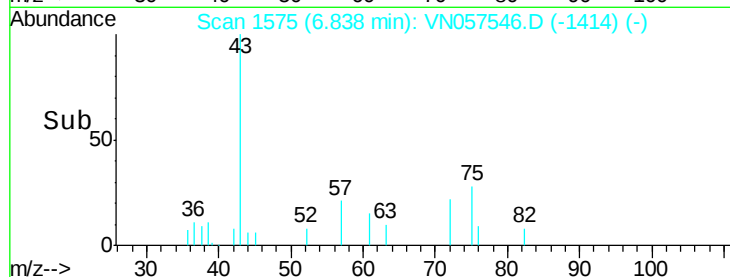
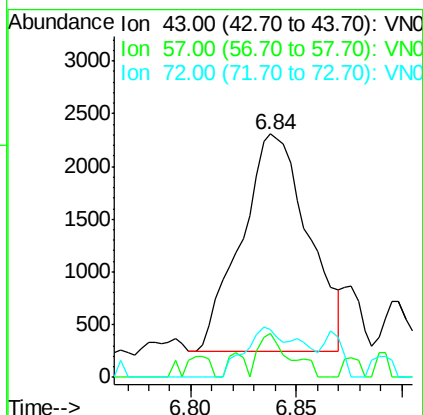
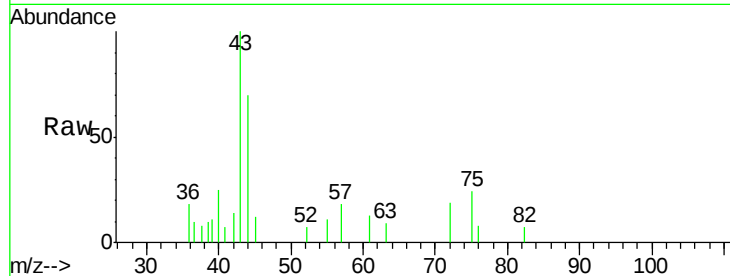




#30
 2-Butanone
 Concen: 1.539 ug/l
 RT: 6.84 min Scan# 1575
 Delta R.T. 0.02 min
 Lab File: VN057546.D
 Acq: 27 Aug 2019 11:09

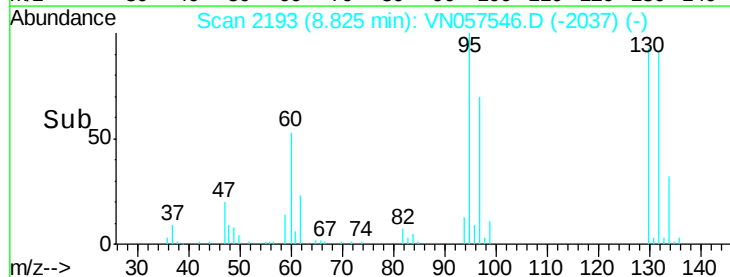
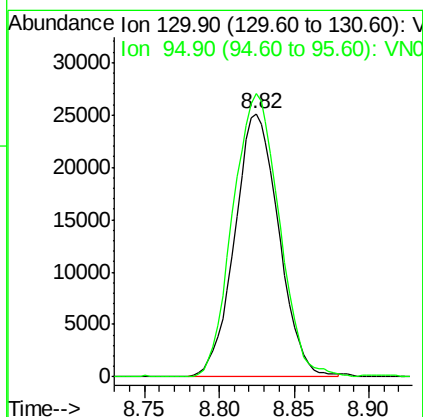
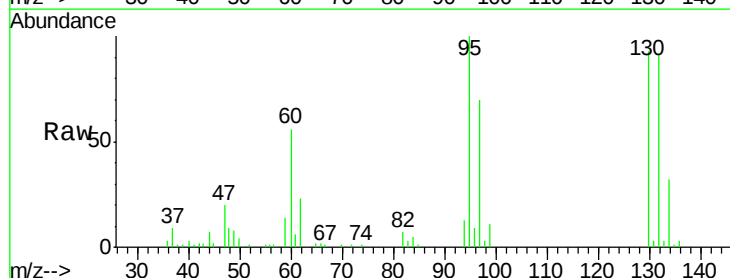
Instrument :
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 ClientSampleId :
 TT-005-IDW/GW-20190823

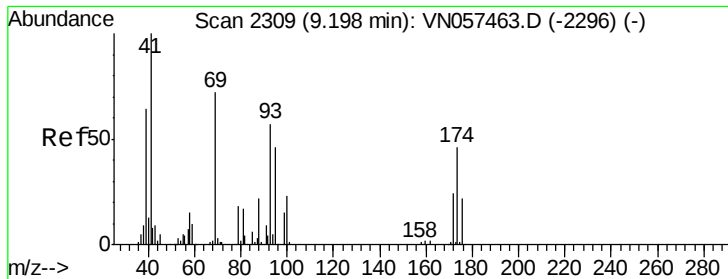
Tot Ion: 43 Resp: 4562
 Ion Ratio Lower Upper
 43 100
 57 8.0 5.7 8.5
 72 12.4 18.2 27.2#



#37
 Trichloroethene
 Concen: 12.479 ug/l
 RT: 8.82 min Scan# 2193
 Delta R.T. 0.00 min
 Lab File: VN057546.D
 Acq: 27 Aug 2019 11:09

Tgt Ion: 130 Resp: 51604
 Ion Ratio Lower Upper
 130 100
 95 107.5 86.4 129.6

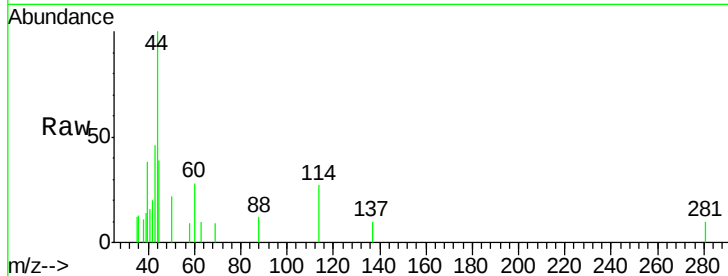




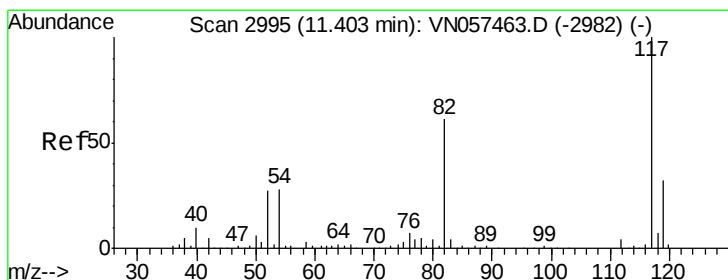
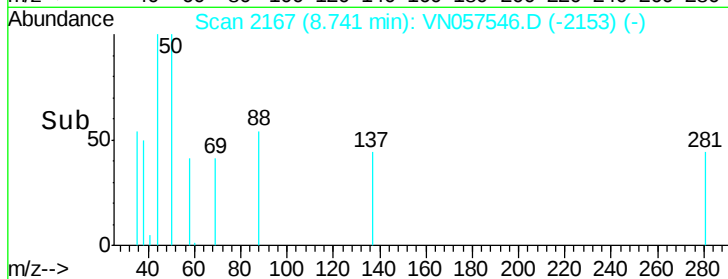
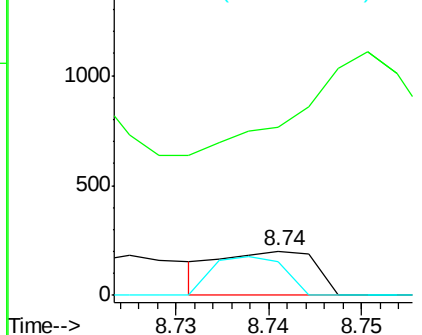
#45
 1,4-Dioxane
 Concen: 2.146 ug/l
 RT: 8.74 min Scan# 2167
 Delta R.T. -0.46 min
 Lab File: VN057546.D
 Acq: 27 Aug 2019 11:09

Instrument :
 MSVOA_N
 ClientSampleId :
 TT-005-IDW/GW-20190823

Tot Ion: 88 Resp: 142
 Ion Ratio Lower Upper
 88 100
 43 245.1 29.8 44.6#
 58 66.9 62.2 93.2

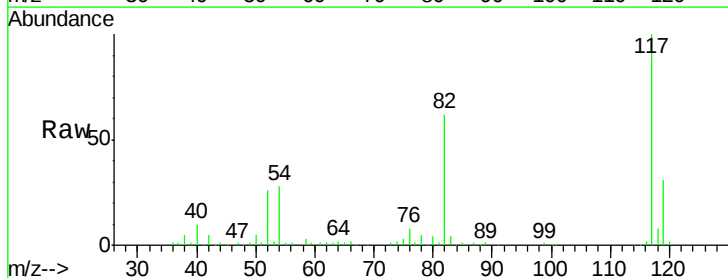


Abundance Ion 88.00 (87.70 to 88.70): VN0
 Ion 43.00 (42.70 to 43.70): VN0
 Ion 58.00 (57.70 to 58.70): VN0

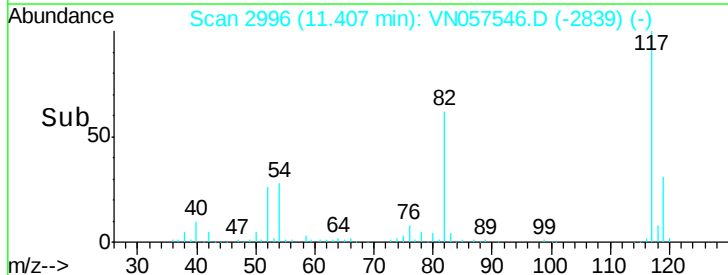
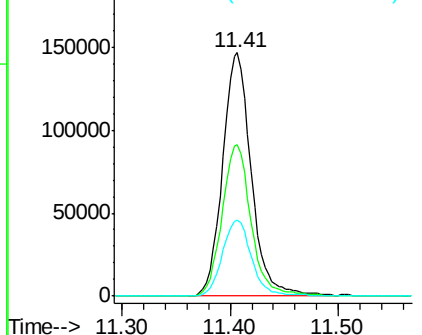


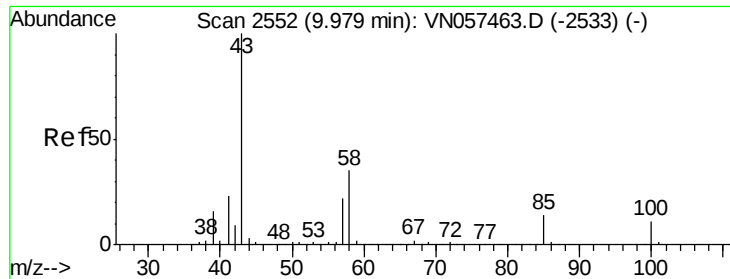
#57
 Chlorobenzene-d5
 Concen: 30.000 ug/l
 RT: 11.41 min Scan# 2996
 Delta R.T. 0.00 min
 Lab File: VN057546.D
 Acq: 27 Aug 2019 11:09

Tgt Ion: 117 Resp: 271258
 Ion Ratio Lower Upper
 117 100
 82 62.7 50.4 75.6
 119 32.0 25.4 38.2



Abundance Ion 117.00 (116.70 to 117.70): V
 Ion 82.00 (81.70 to 82.70): VN0
 Ion 119.00 (118.70 to 119.70): V





#58

4-Methyl-2-Pentanone

Concen: 0.331 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN057546.D

Acq: 27 Aug 2019 11:09

Instrument :

MSVOA_N

ClientSampleId :

TT-005-IDW/GW-20190823

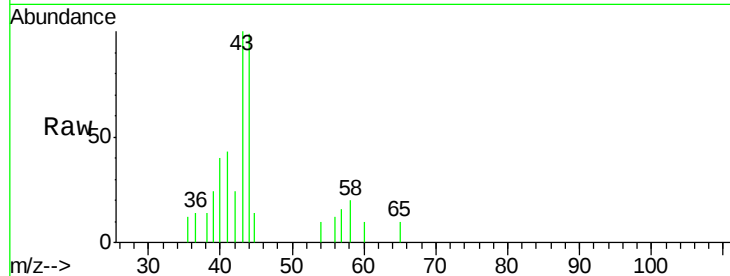
Tot Ion: 43 Resp: 1764

Ion Ratio Lower Upper

43 100

58 17.9 28.0 42.0#

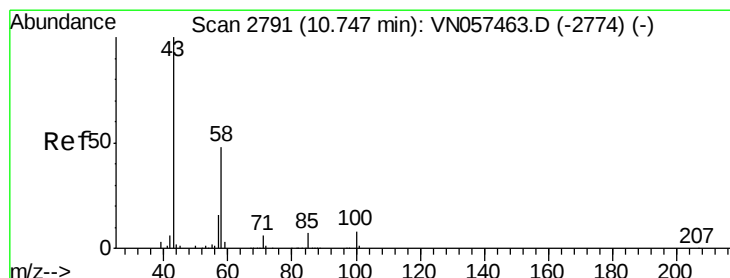
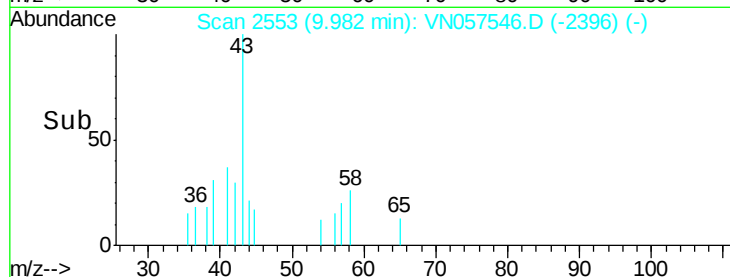
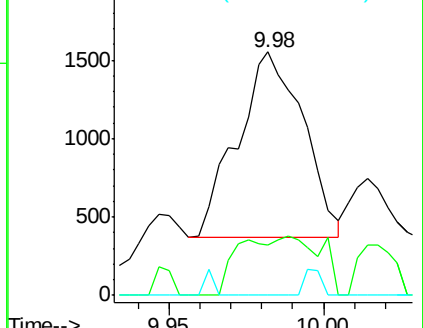
85 0.0 11.3 16.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

Ion 85.00 (84.70 to 85.70): VN0



#59

2-Hexanone

Concen: 0.449 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.01 min

Lab File: VN057546.D

Acq: 27 Aug 2019 11:09

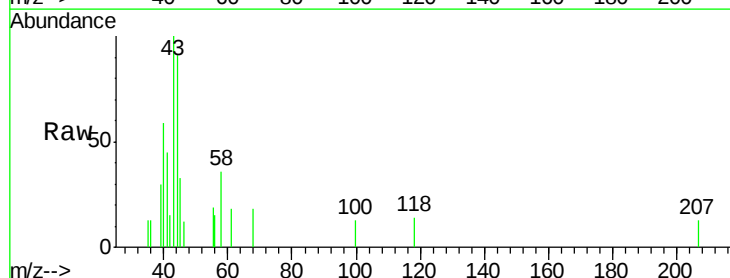
Tgt Ion: 43 Resp: 1657

Ion Ratio Lower Upper

43 100

58 33.9 38.9 58.3#

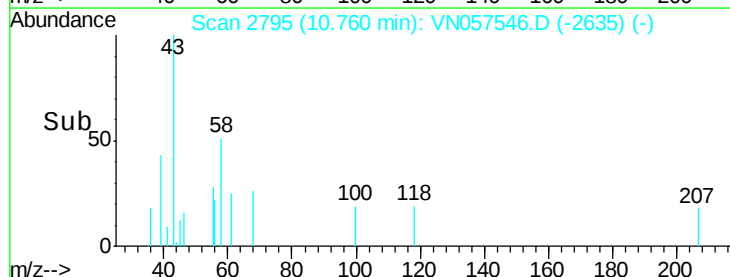
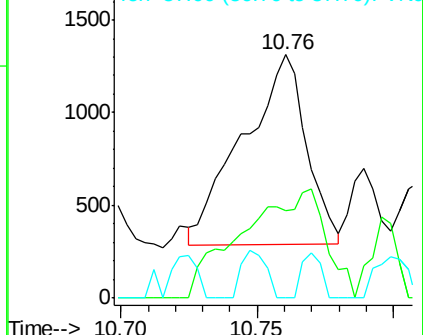
57 9.6 13.0 19.4#

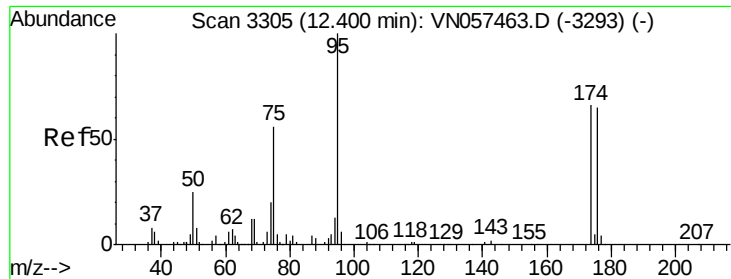


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

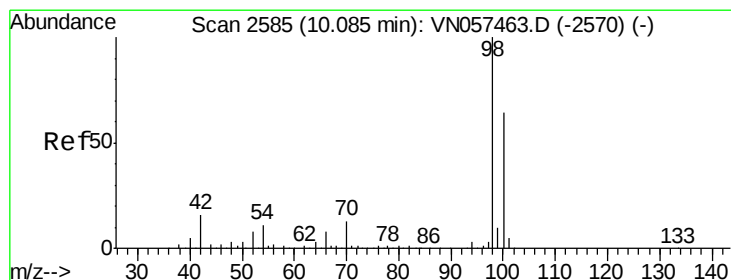
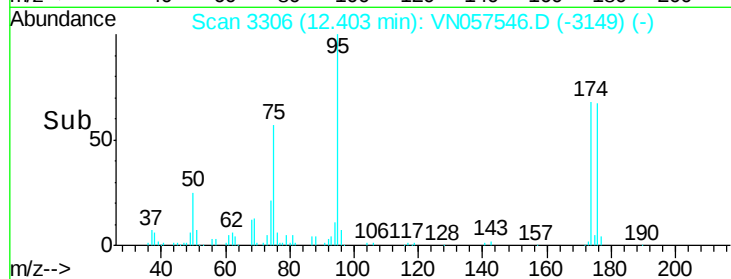
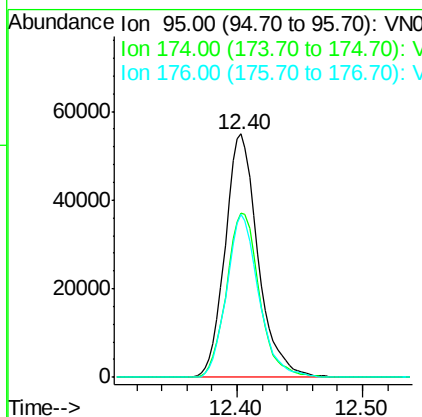
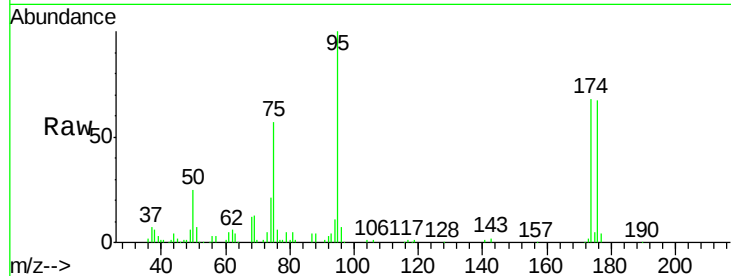




#60
4-Bromofluorobenzene
Concen: 22.354 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN057546.D
Acq: 27 Aug 2019 11:09

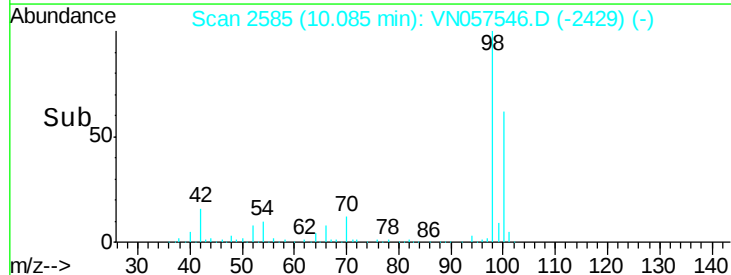
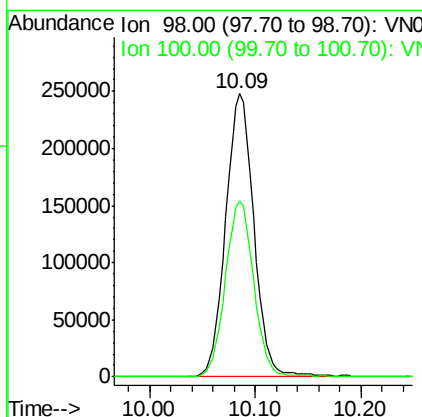
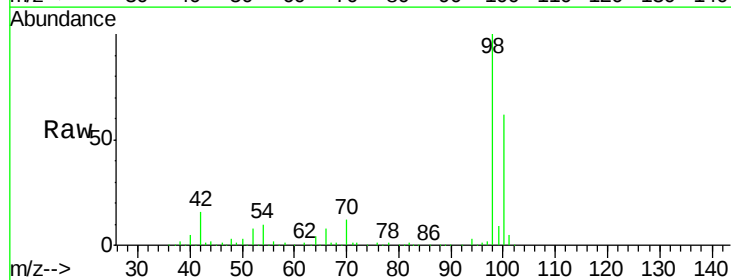
Instrument :
MSVOA_N
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TT-005-IDW/GW-20190823

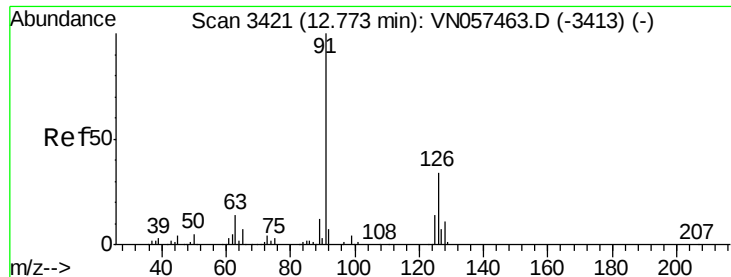
Tot Ion: 95 Resp: 99993
Ion Ratio Lower Upper
95 100
174 67.6 54.9 82.3
176 65.3 54.2 81.4



#63
Toluene-d8
Concen: 33.502 ug/l
RT: 10.09 min Scan# 2585
Delta R.T. 0.00 min
Lab File: VN057546.D
Acq: 27 Aug 2019 11:09

Tgt Ion: 98 Resp: 458922
Ion Ratio Lower Upper
98 100
100 62.4 51.0 76.6





#78

4-Chlorotoluene

Concen: 0.201 ug/l

RT: 12.78 min Scan# 3424

Delta R.T. 0.01 min

Lab File: VN057546.D

Acq: 27 Aug 2019 11:09

Instrument :

MSVOA_N

ClientSampleId :

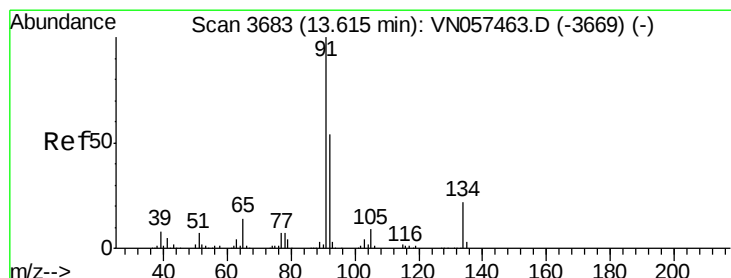
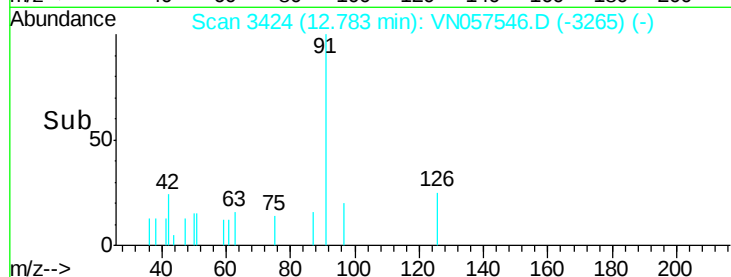
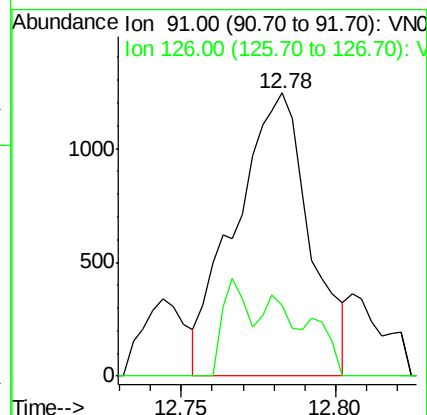
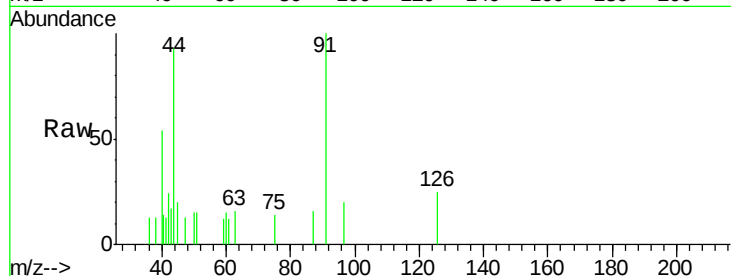
TT-005-IDW/GW-20190823

Tot Ion: 91 Resp: 2079

Ion Ratio Lower Upper

91 100

126 12.5 0.0 61.6



#85

n-Butylbenzene

Concen: 0.209 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. 0.00 min

Lab File: VN057546.D

Acq: 27 Aug 2019 11:09

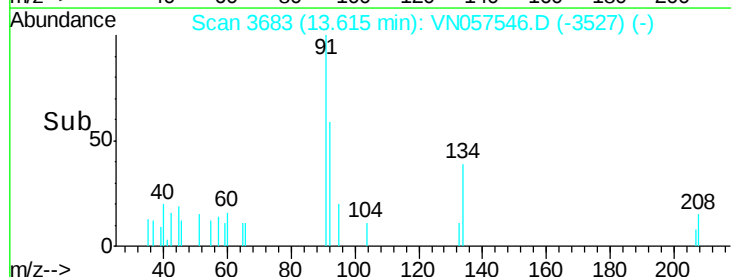
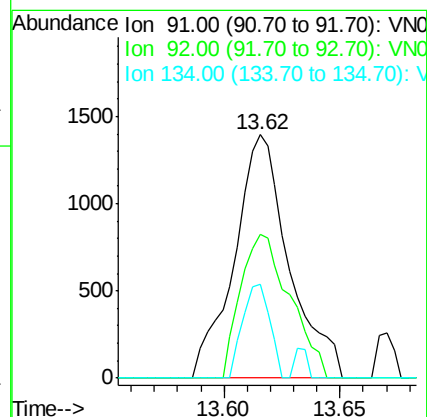
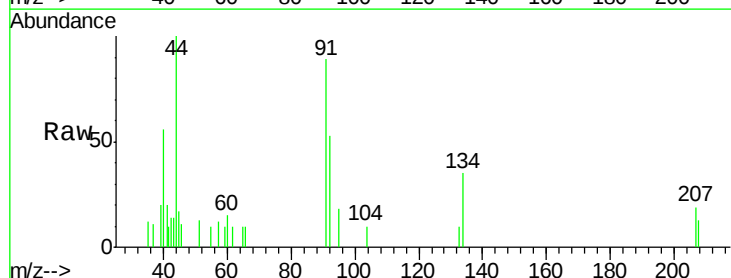
Tgt Ion: 91 Resp: 2291

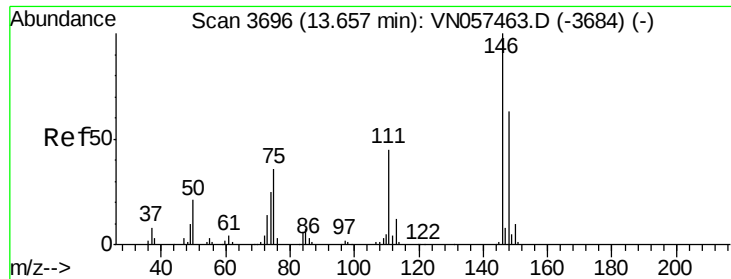
Ion Ratio Lower Upper

91 100

92 52.9 0.0 105.6

134 19.0 0.0 46.0





#87

1,2-Dichlorobenzene

Concen: 0.279 ug/l

RT: 13.66 min Scan# 3697

Delta R.T. 0.00 min

Lab File: VN057546.D

Acq: 27 Aug 2019 11:09

Instrument :

MSVOA_N

ClientSampleId :

TT-005-IDW/GW-20190823

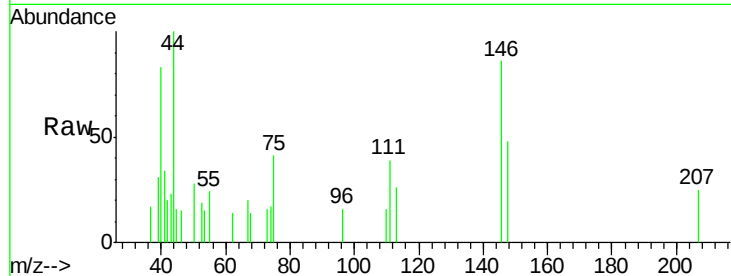
Tot Ion:146 Resp: 1405

Ion Ratio Lower Upper

146 100

111 19.5 22.5 67.5#

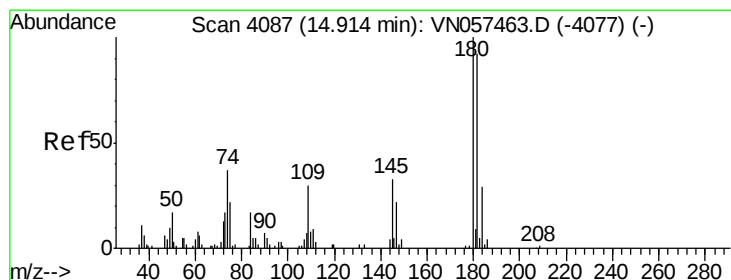
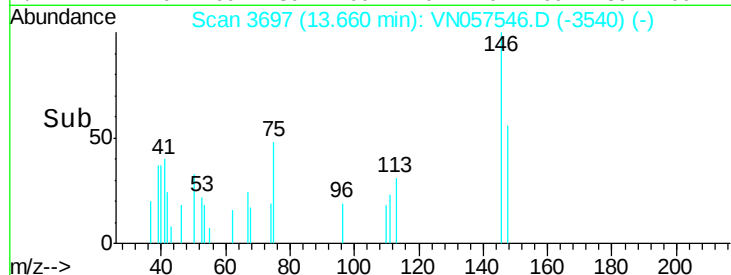
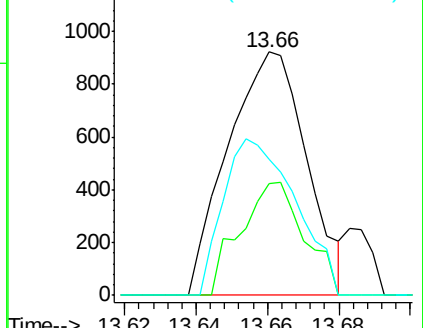
148 58.9 30.9 92.7



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#89

1,2,4-Trichlorobenzene

Concen: 0.652 ug/l

RT: 14.92 min Scan# 4088

Delta R.T. 0.00 min

Lab File: VN057546.D

Acq: 27 Aug 2019 11:09

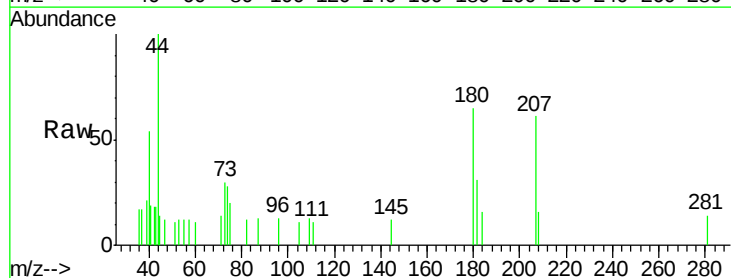
Tgt Ion:180 Resp: 1229

Ion Ratio Lower Upper

180 100

182 32.5 75.4 113.2#

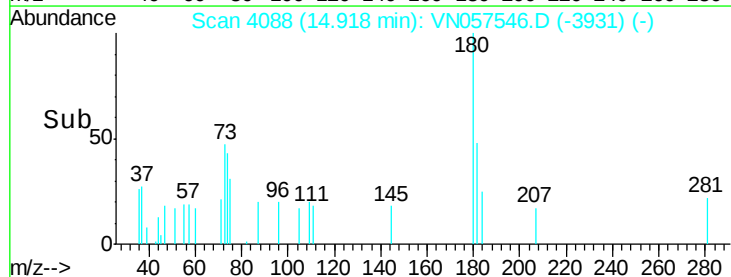
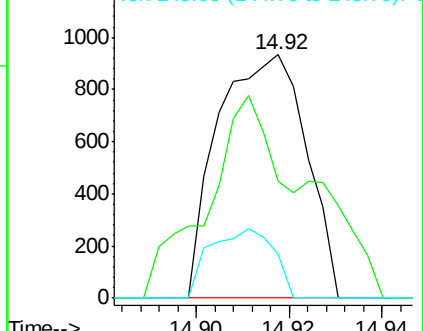
145 14.1 26.9 40.3#

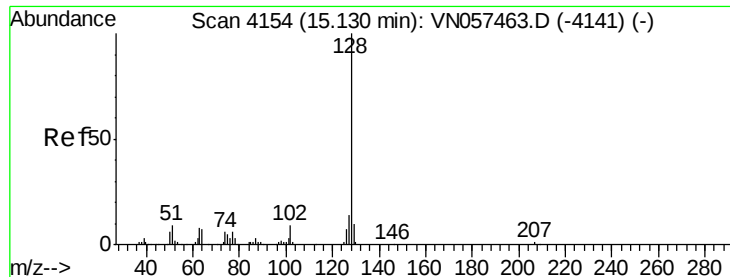


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#91

Naphthalene

Concen: 10.340 ug/l

RT: 15.13 min Scan# 4153

Delta R.T. -0.00 min

Lab File: VN057546.D

Acq: 27 Aug 2019 11:09

Instrument :

MSVOA_N

ClientSampleId :

TT-005-IDW/GW-20190823

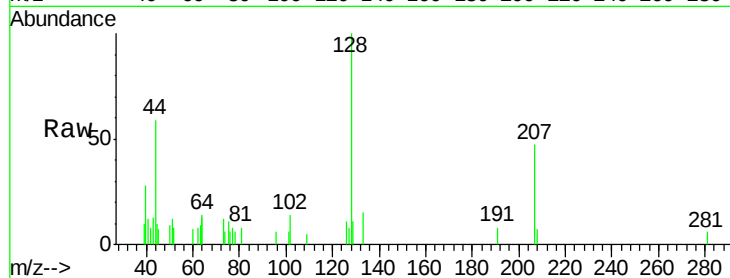
Tot Ion:128 Resp: 5572

Ion Ratio Lower Upper

128 100

127 2.4 10.1 15.1#

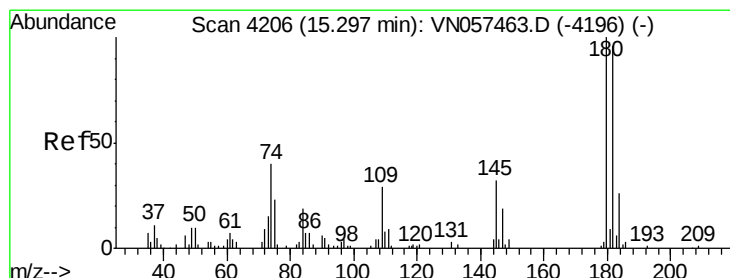
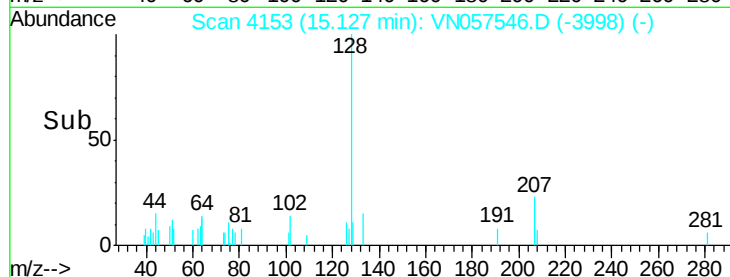
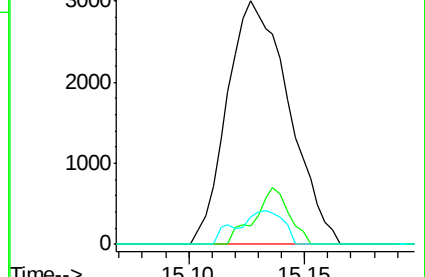
129 2.2 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#92

1,2,3-Trichlorobenzene

Concen: 0.685 ug/l

RT: 15.29 min Scan# 4205

Delta R.T. -0.00 min

Lab File: VN057546.D

Acq: 27 Aug 2019 11:09

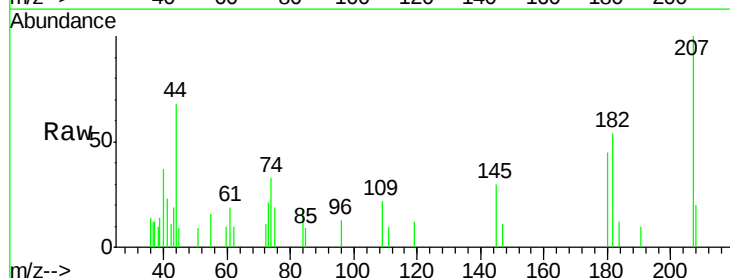
Tgt Ion:180 Resp: 1293

Ion Ratio Lower Upper

180 100

182 114.8 0.0 187.0

145 56.4 0.0 64.4



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

