

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN030119\
 Data File : VN054028.D
 Acq On : 1 Mar 2019 14:37
 Operator : JC/SP
 Sample : K1683-01 5X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 55-ST-2

Quant Time: Mar 01 23:47:06 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N030119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 01 11:11:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	113505	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	604685	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	504852	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	244421	30.66	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.20%
60) 4-Bromofluorobenzene	12.40	95	197714	25.59	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	85.30%
63) Toluene-d8	10.09	98	728986	30.01	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.03%

Target Compounds

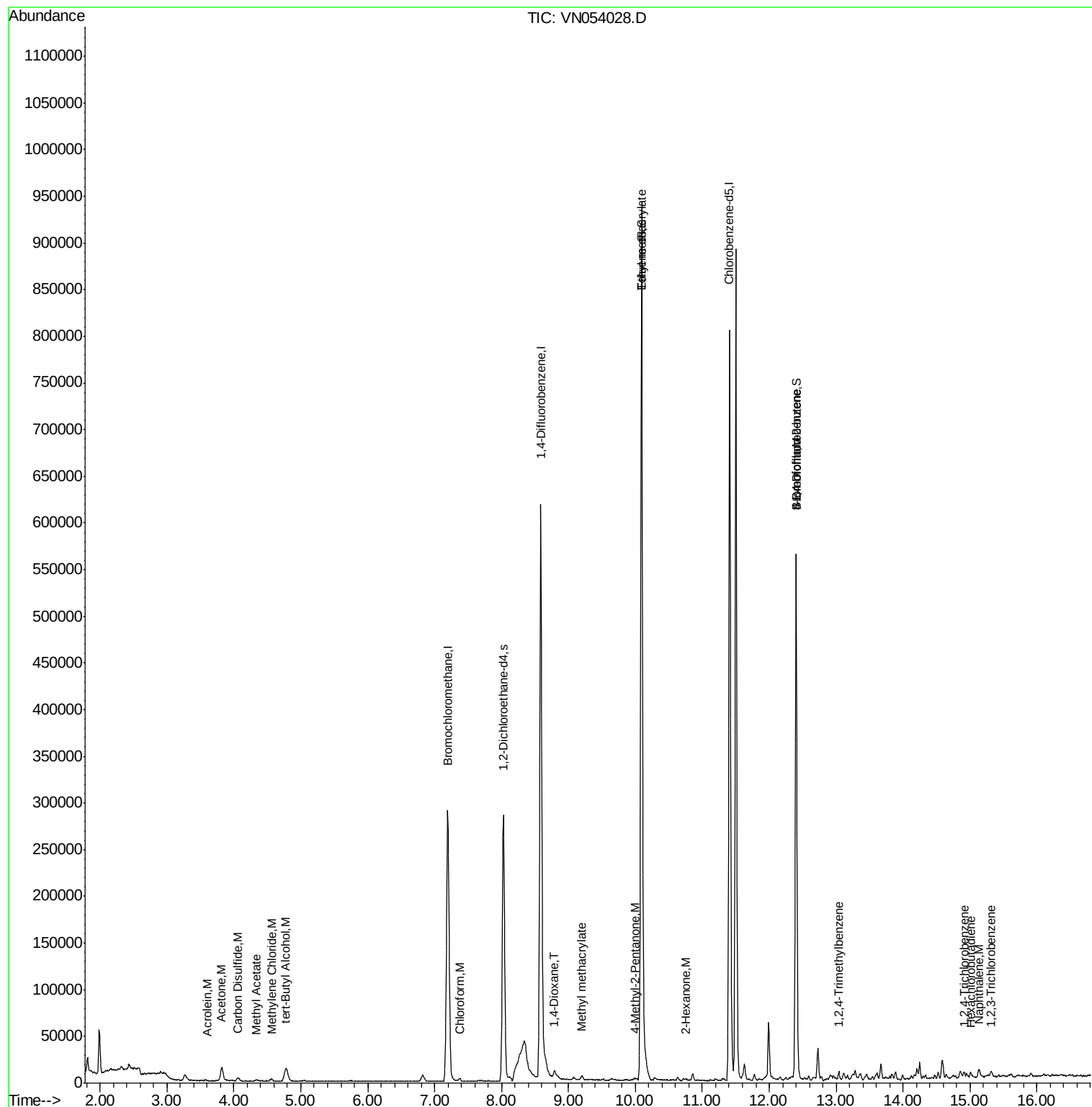
					Ovalue	
12) Methyl Acetate	4.33	43	1869	0.354	ug/l #	52
13) Acrolein	3.60	56	222	23.933	ug/l #	16
15) Acetone	3.82	58	8790	12.032	ug/l	85
16) Carbon Disulfide	4.05	76	5591	0.275	ug/l #	75
18) Methylene Chloride	4.55	84	1800	0.249	ug/l #	47
23) tert-Butyl Alcohol	4.78	59	24122	53.128	ug/l #	100
25) Chloroform	7.37	83	3204	0.254	ug/l	88
45) 1,4-Dioxane	8.77	88	80	32.683	ug/l #	1
46) Methyl methacrylate	9.20	41	2471	0.468	ug/l	97
51) Ethyl methacrylate	10.10	69	2189	0.293	ug/l	80
56) Bromoform	12.41	173	1615	0.357	ug/l #	1
58) 4-Methyl-2-Pentanone	9.99	43	1573	0.277	ug/l #	83
59) 2-Hexanone	10.76	43	1435	0.386	ug/l #	78
77) t-1,4-Dichloro-2-butene	12.40	75	100133	53.148	ug/l #	11
80) 1,2,4-Trimethylbenzene	13.04	105	5364	0.225	ug/l	100
89) 1,2,4-Trichlorobenzene	14.91	180	1860	0.300	ug/l #	73
90) Hexachlorobutadiene	15.01	225	937	0.208	ug/l	67
91) Naphthalene	15.13	128	8502	7.509	ug/l	98
92) 1,2,3-Trichlorobenzene	15.31	180	2404	0.393	ug/l	83

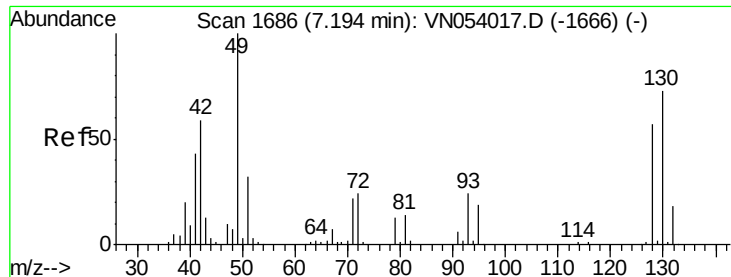
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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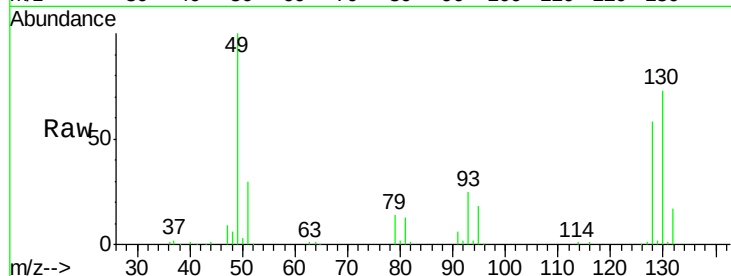




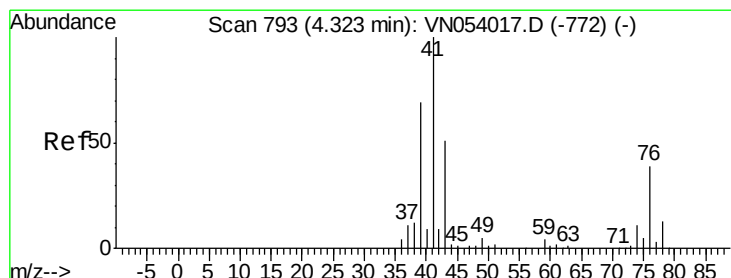
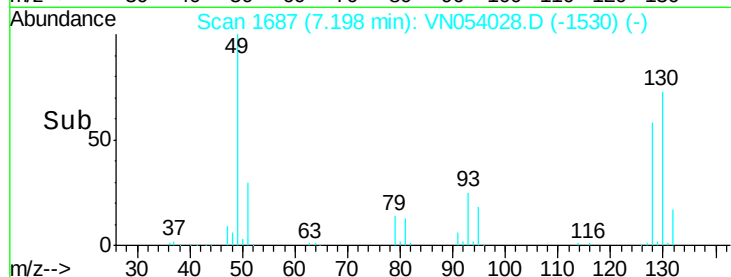
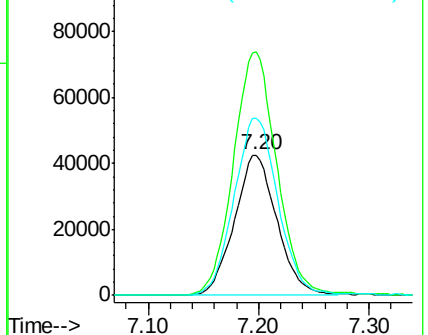
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.20 min Scan# 1687
Delta R.T. 0.00 min
Lab File: VN054028.D
Acq: 1 Mar 2019 14:37

Instrument :
MSVOA_N
ClientSampleId :
55-ST-2

Tot Ion:128 Resp: 113505
Ion Ratio Lower Upper
128 100
49 176.8 0.0 431.8
130 130.4 0.0 317.0

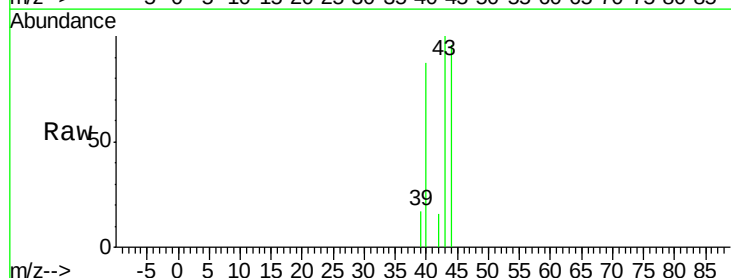


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VN
Ion 130.00 (129.70 to 130.70): V

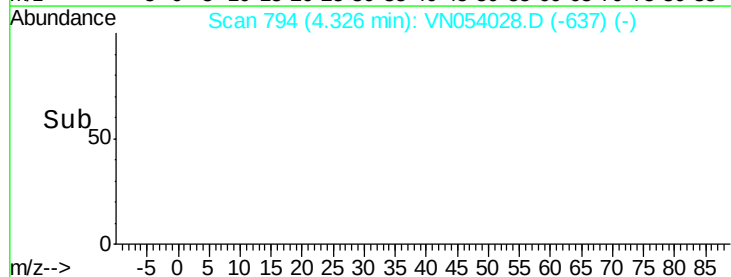
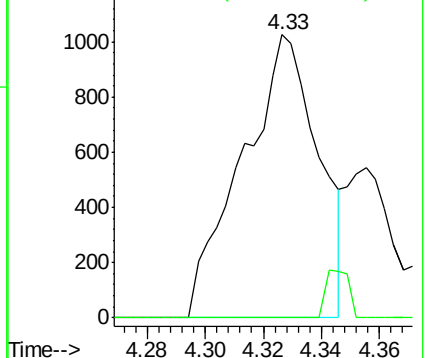


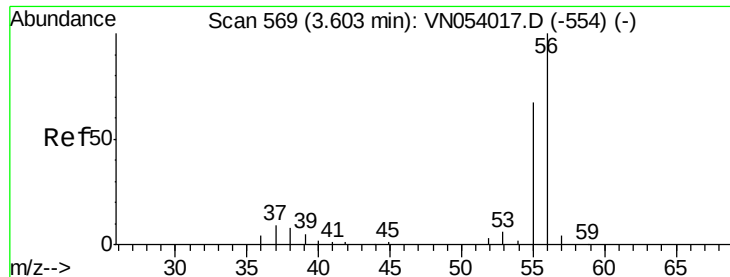
#12
Methyl Acetate
Concen: 0.354 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN054028.D
Acq: 1 Mar 2019 14:37

Tgt Ion: 43 Resp: 1869
Ion Ratio Lower Upper
43 100
74 0.0 18.9 28.3#



Abundance Ion 43.00 (42.70 to 43.70): VN
Ion 74.00 (73.70 to 74.70): VN





#13

Acrolein

Concen: 23.933 ug/l

RT: 3.60 min Scan# 568

Delta R.T. -0.00 min

Lab File: VN054028.D

Acq: 1 Mar 2019 14:37

Instrument :

MSVOA_N

ClientSampled :

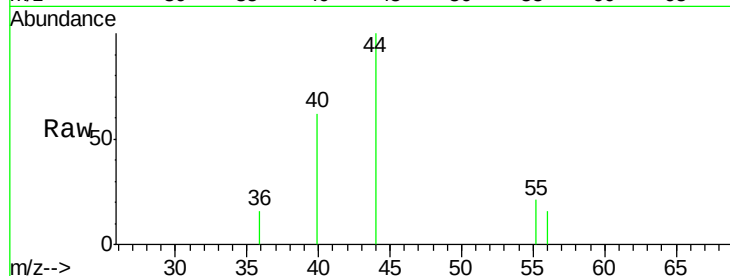
55-ST-2

Tot Ion: 56 Resp: 222

Ion Ratio Lower Upper

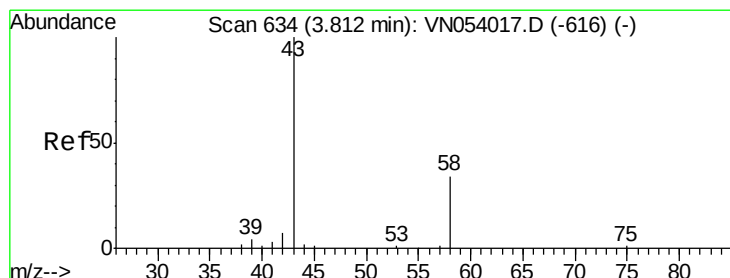
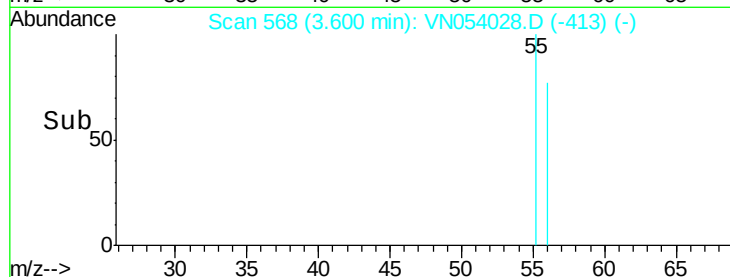
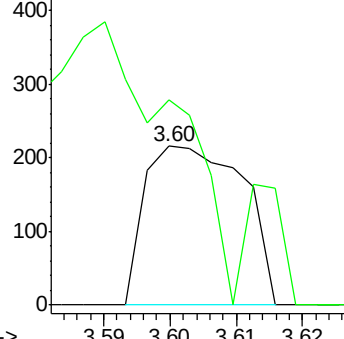
56 100

55 140.5 56.7 85.1#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#15

Acetone

Concen: 12.032 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN054028.D

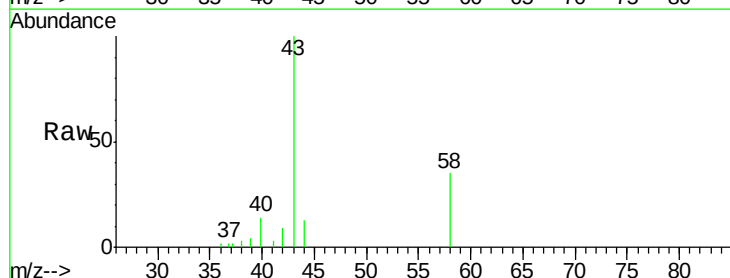
Acq: 1 Mar 2019 14:37

Tgt Ion: 58 Resp: 8790

Ion Ratio Lower Upper

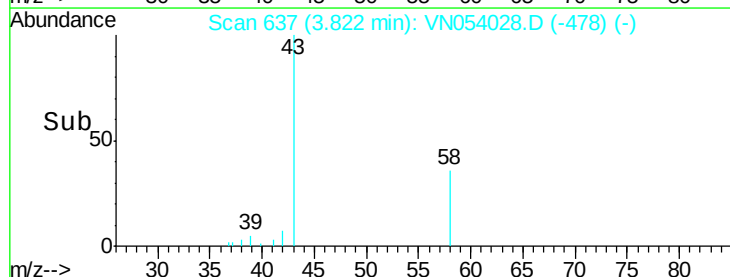
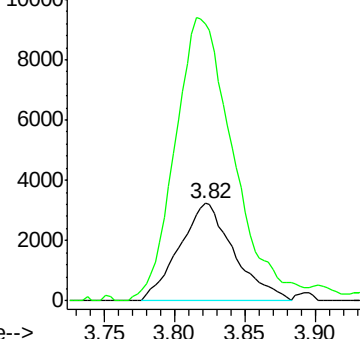
58 100

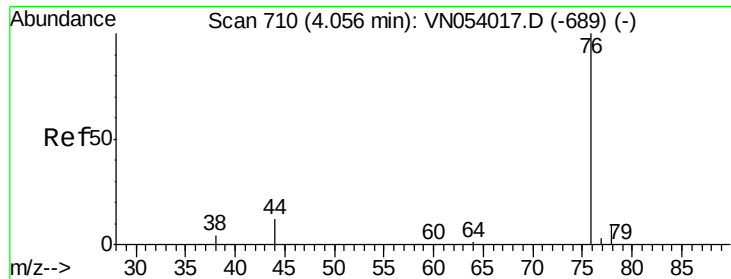
43 273.9 243.6 365.4



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

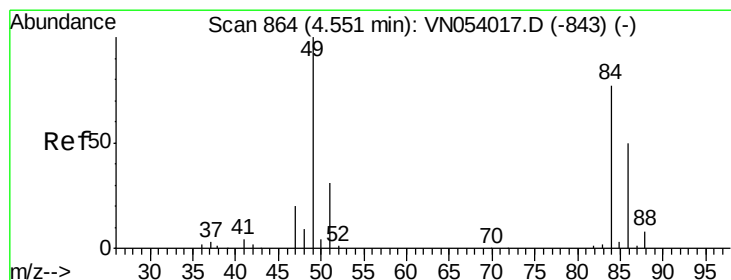
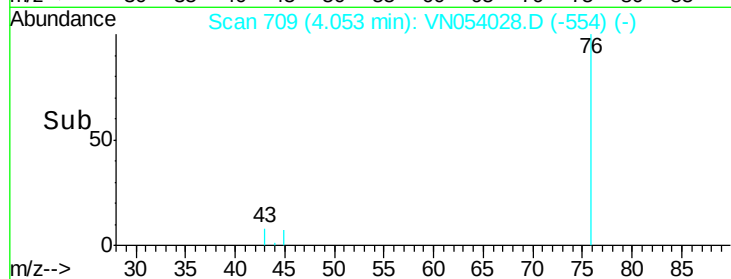
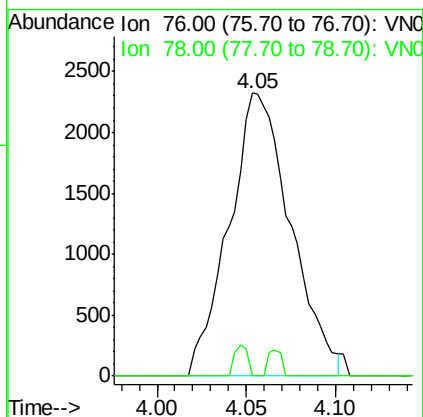
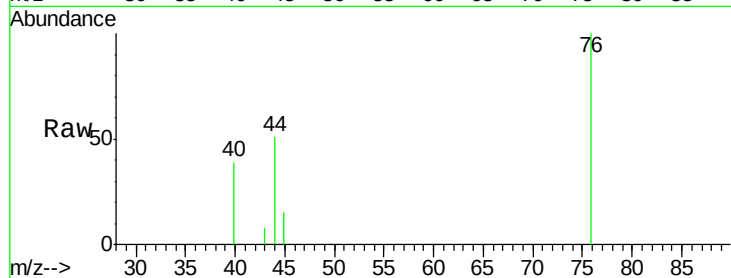




#16
Carbon Disulfide
Concen: 0.275 ug/l
RT: 4.05 min Scan# 709
Delta R.T. -0.00 min
Lab File: VN054028.D
Acq: 1 Mar 2019 14:37

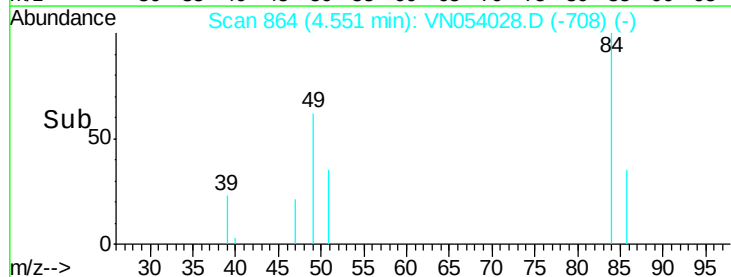
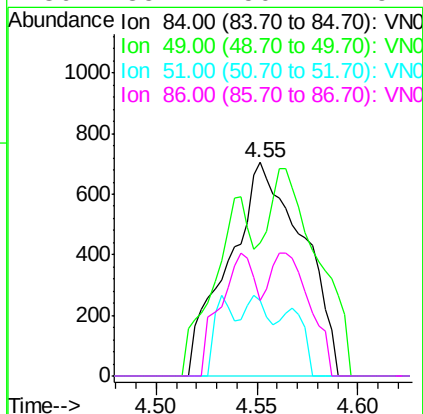
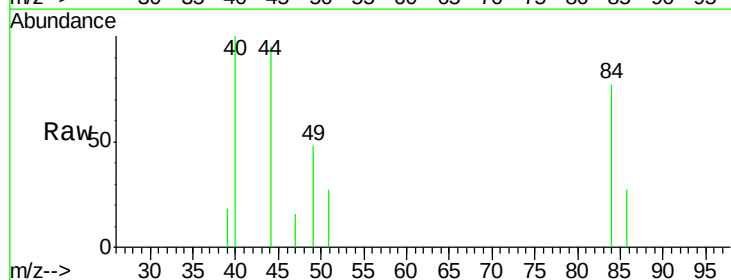
Instrument :
MSVOA_N
ClientSampled :
55-ST-2

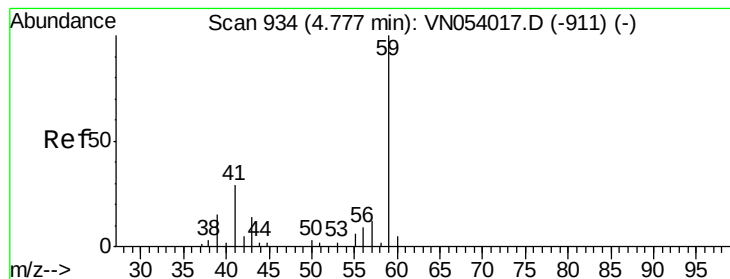
Tot Ion: 76 Resp: 5591
Ion Ratio Lower Upper
76 100
78 0.0 7.3 10.9#



#18
Methylene Chloride
Concen: 0.249 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.00 min
Lab File: VN054028.D
Acq: 1 Mar 2019 14:37

Tgt Ion: 84 Resp: 1800
Ion Ratio Lower Upper
84 100
49 40.0 101.4 152.0#
51 35.2 31.7 47.5
86 35.2 50.1 75.1#



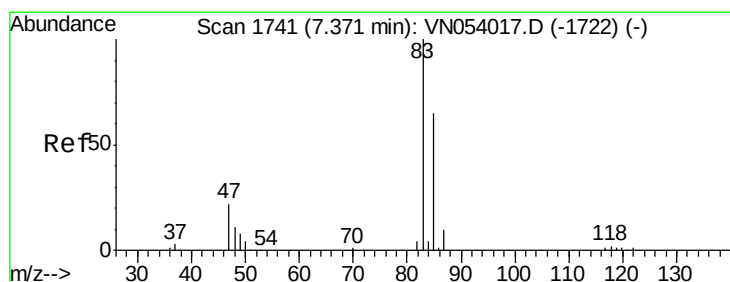
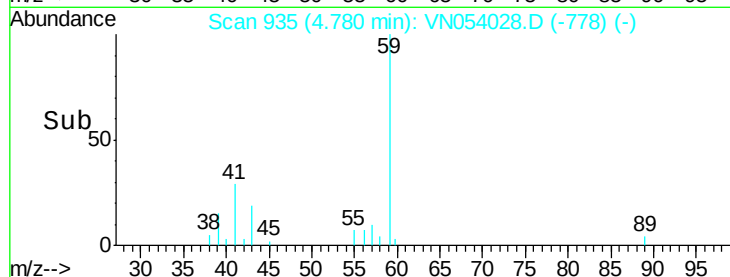
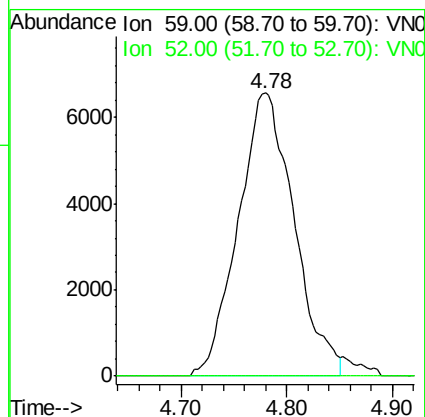
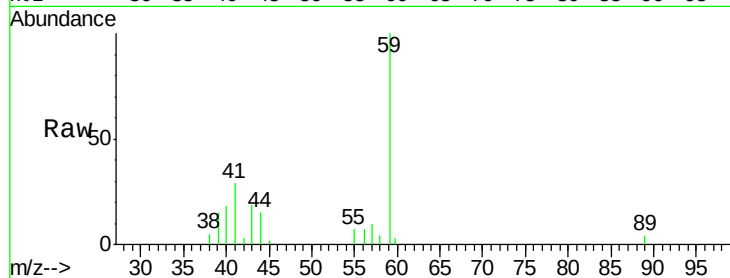


#23

tert-Butyl Alcohol
 Concen: 53.128 ug/l
 RT: 4.78 min Scan# 935
 Delta R.T. 0.00 min
 Lab File: VN054028.D
 Acq: 1 Mar 2019 14:37

Instrument :
 MSVOA_N
 ClientSampled :
 55-ST-2

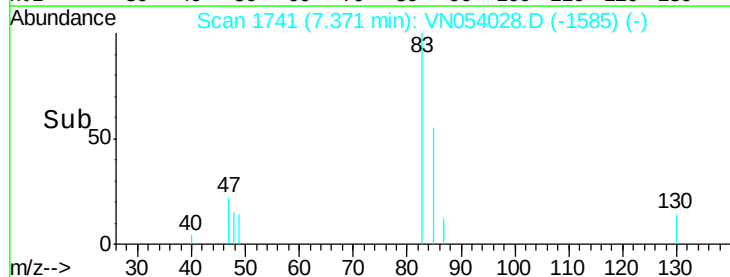
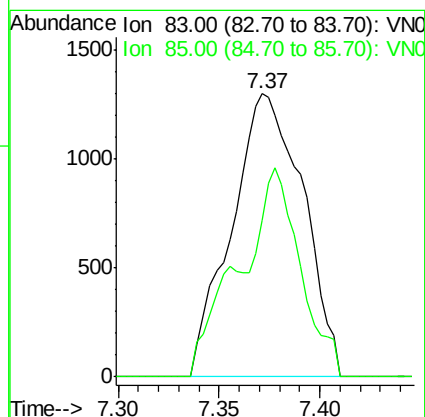
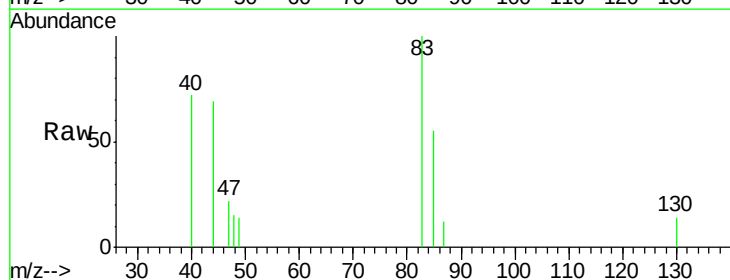
Tot Ion: 59 Resp: 24122
 Ion Ratio Lower Upper
 59 100
 52 0.0 0.0 0.0

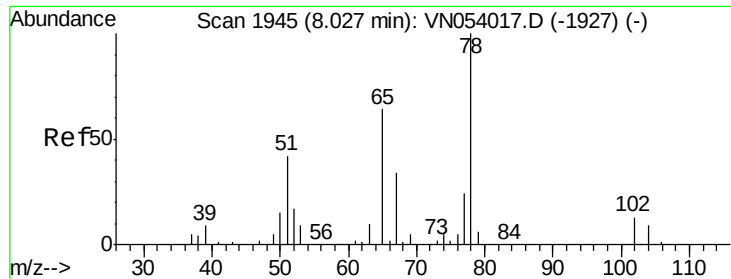


#25

Chloroform
 Concen: 0.254 ug/l
 RT: 7.37 min Scan# 1741
 Delta R.T. -0.00 min
 Lab File: VN054028.D
 Acq: 1 Mar 2019 14:37

Tgt Ion: 83 Resp: 3204
 Ion Ratio Lower Upper
 83 100
 85 55.4 51.7 77.5

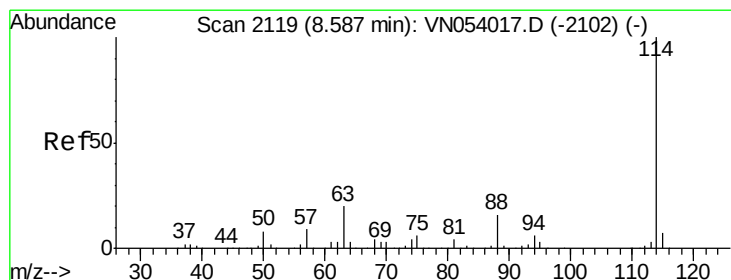
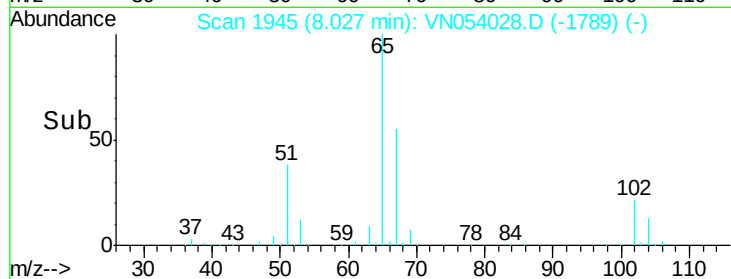
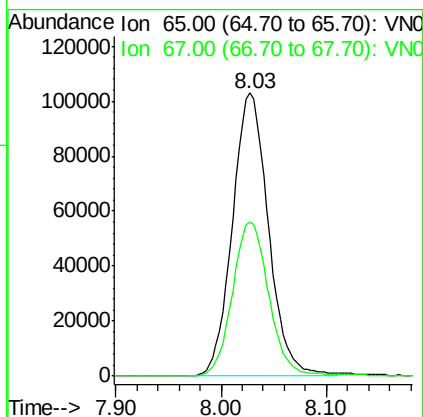
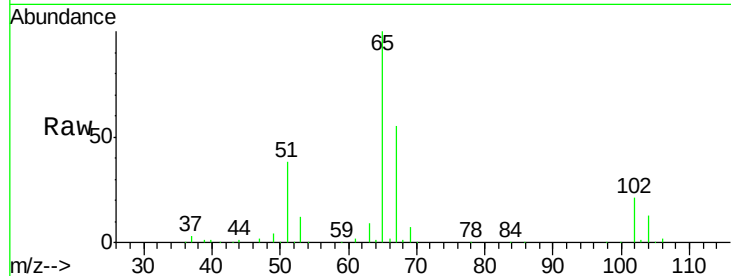




#27
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN054028.D
 Acq: 1 Mar 2019 14:37

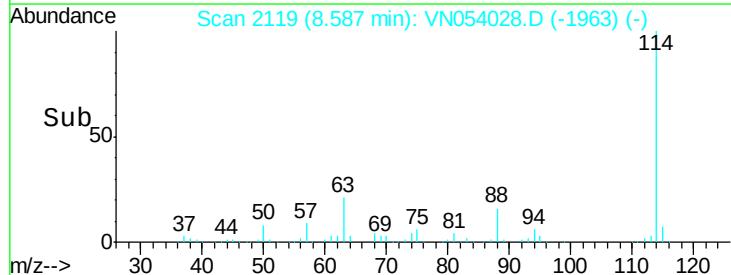
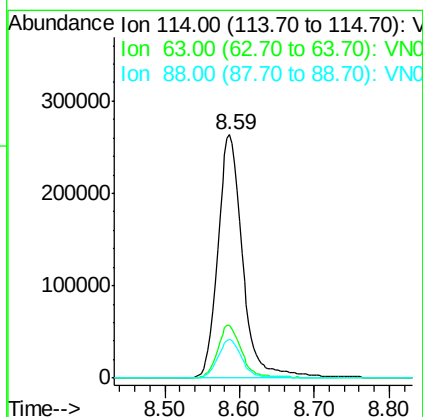
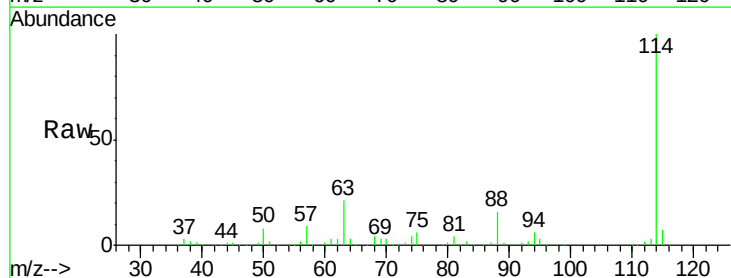
Instrument :
 MSVOA_N
 ClientSampleId :
 55-ST-2

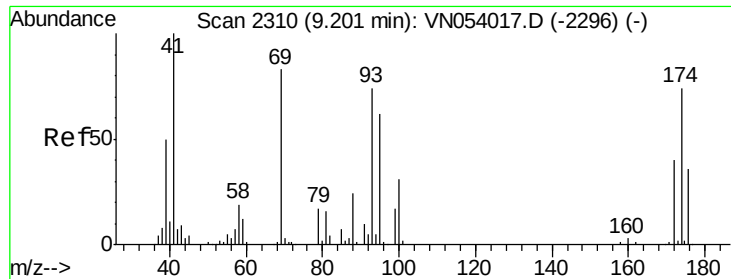
Tot Ion: 65 Resp: 244421
 Ion Ratio Lower Upper
 65 100
 67 54.9 44.6 66.8



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054028.D
 Acq: 1 Mar 2019 14:37

Tgt Ion: 114 Resp: 604685
 Ion Ratio Lower Upper
 114 100
 63 20.8 16.9 25.3
 88 15.7 12.8 19.2

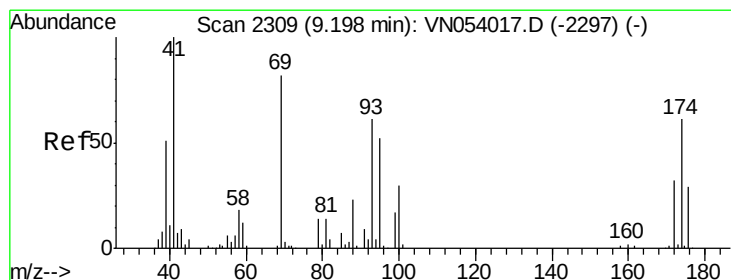
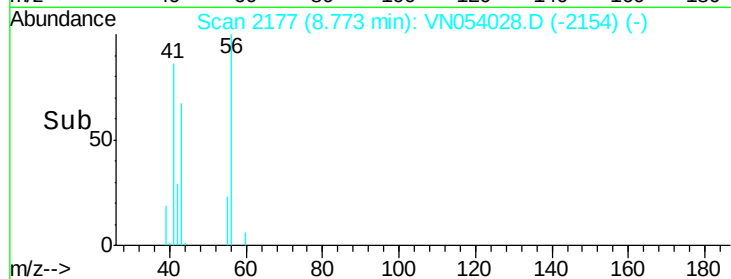
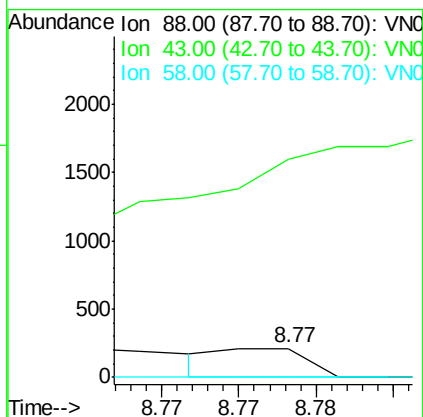
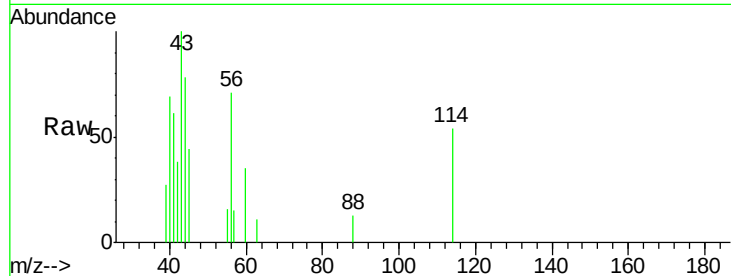




#45
 1,4-Dioxane
 Concen: 32.683 ug/l
 RT: 8.77 min Scan# 2177
 Delta R.T. -0.43 min
 Lab File: VN054028.D
 Acq: 1 Mar 2019 14:37

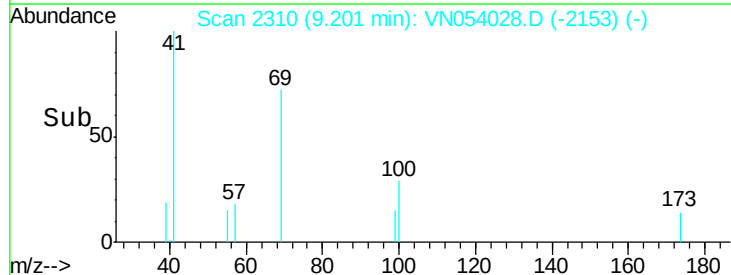
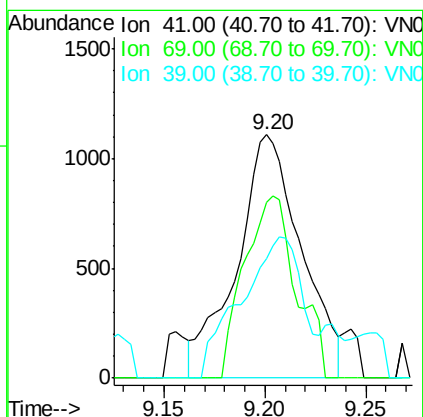
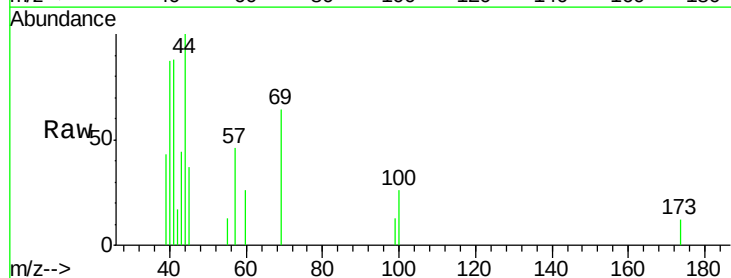
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 55-ST-2

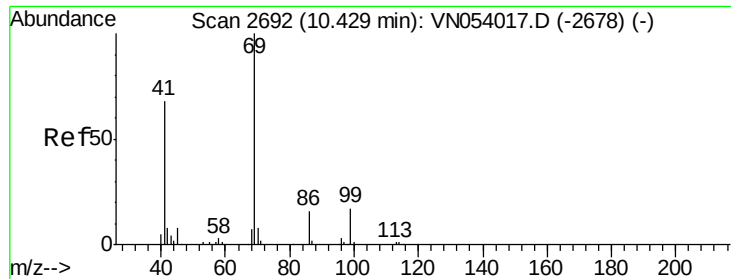
Tot Ion: 88 Resp: 80
 Ion Ratio Lower Upper
 88 100
 43 3662.5 29.5 44.3#
 58 0.0 61.5 92.3#



#46
 Methyl methacrylate
 Concen: 0.468 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. 0.00 min
 Lab File: VN054028.D
 Acq: 1 Mar 2019 14:37

Tgt Ion: 41 Resp: 2471
 Ion Ratio Lower Upper
 41 100
 69 85.1 42.5 127.6
 39 58.0 26.3 78.9





#51

Ethyl methacrylate

Concen: 0.293 ug/l

RT: 10.10 min Scan# 2589

Delta R.T. -0.33 min

Lab File: VN054028.D

Acq: 1 Mar 2019 14:37

Instrument :

MSVOA_N

ClientSampleId :

55-ST-2

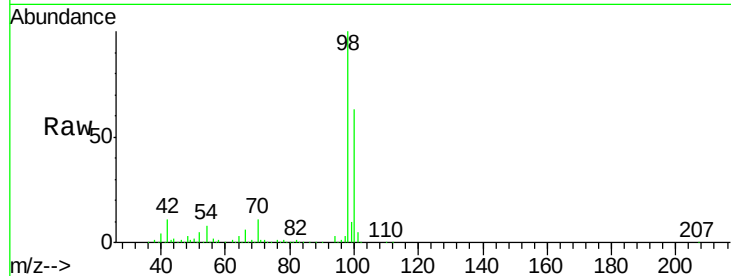
Tot Ion: 69 Resp: 2189

Ion Ratio Lower Upper

69 100

41 52.5 34.4 103.3

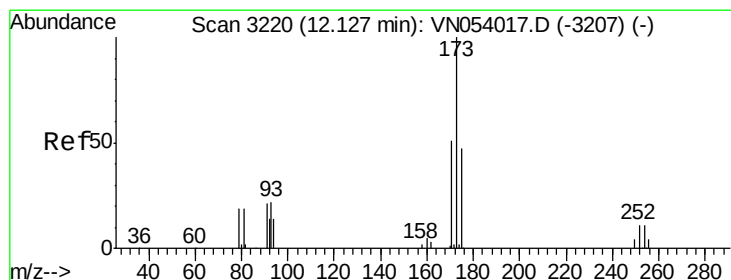
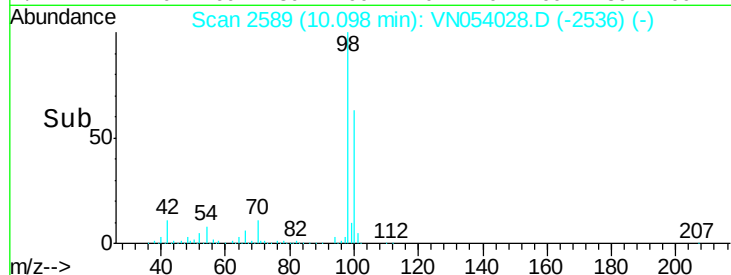
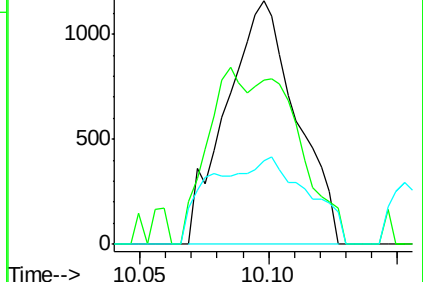
39 21.2 16.4 49.2



Abundance Ion 69.00 (68.70 to 69.70): VN054017.D (-2678) (-)

Ion 41.00 (40.70 to 41.70): VN054017.D (-2678) (-)

Ion 39.00 (38.70 to 39.70): VN054017.D (-2678) (-)



#56

Bromoform

Concen: 0.357 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN054028.D

Acq: 1 Mar 2019 14:37

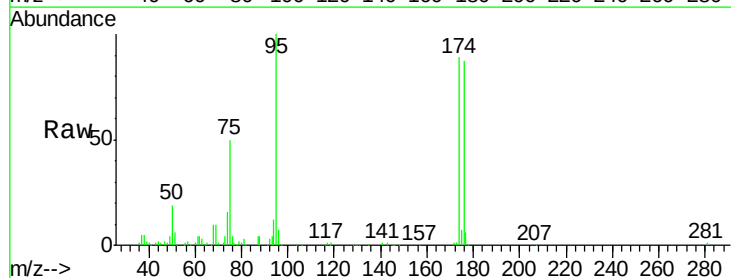
Tgt Ion: 173 Resp: 1615

Ion Ratio Lower Upper

173 100

175 784.2 38.7 58.1#

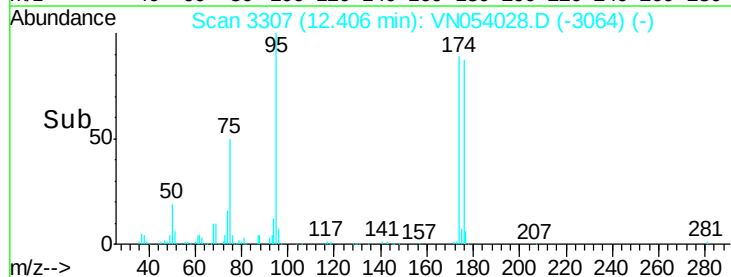
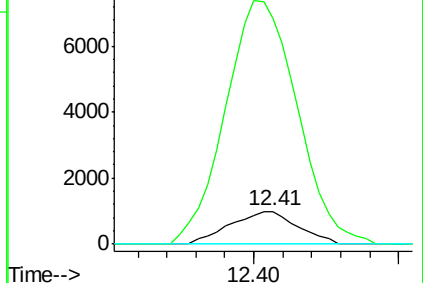
254 0.0 8.4 12.6#

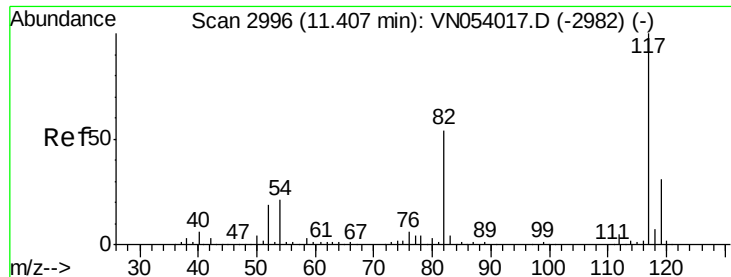


Abundance Ion 173.00 (172.70 to 173.70): VN054017.D (-3207) (-)

Ion 175.00 (174.70 to 175.70): VN054017.D (-3207) (-)

Ion 254.00 (253.70 to 254.70): VN054017.D (-3207) (-)

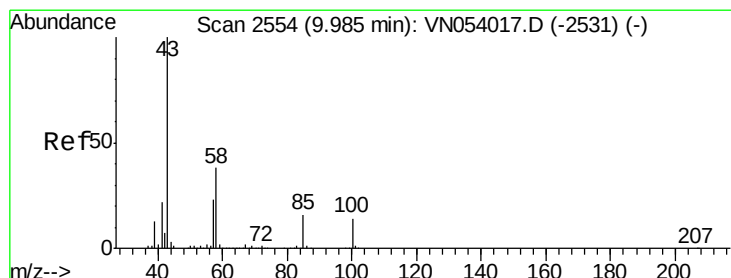
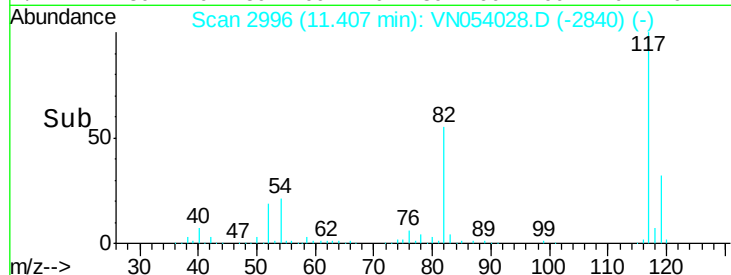
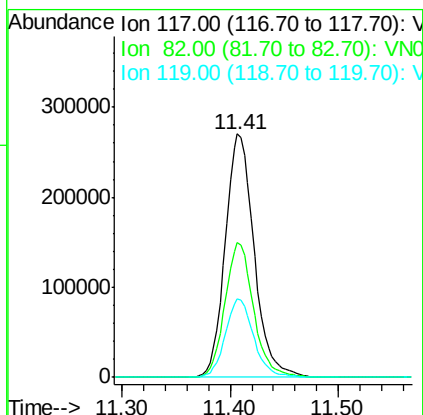
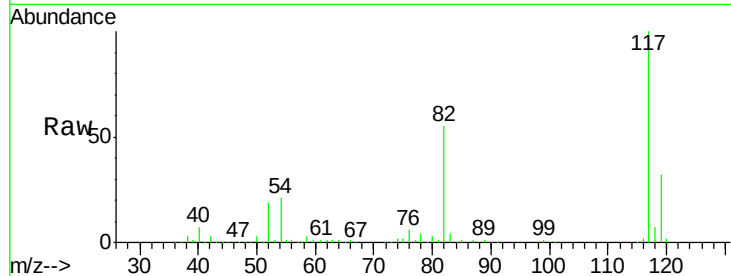




#57
 Chlorobenzene-d5
 Concen: 30.000 ug/l
 RT: 11.41 min Scan# 2996
 Delta R.T. 0.00 min
 Lab File: VN054028.D
 Acq: 1 Mar 2019 14:37

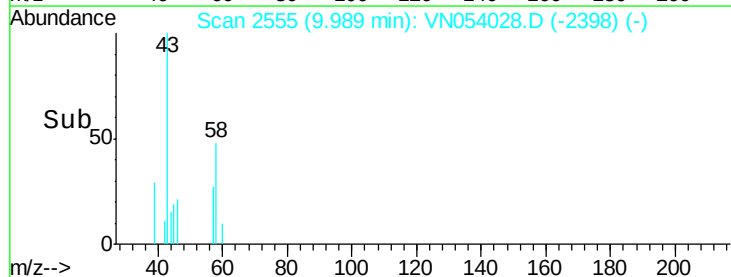
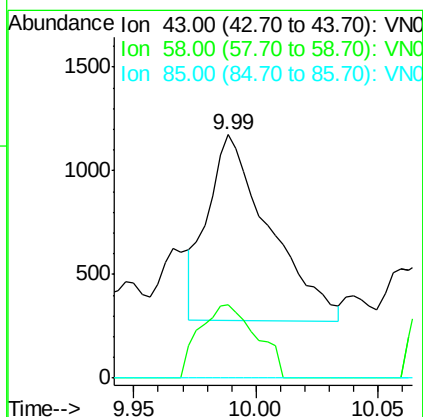
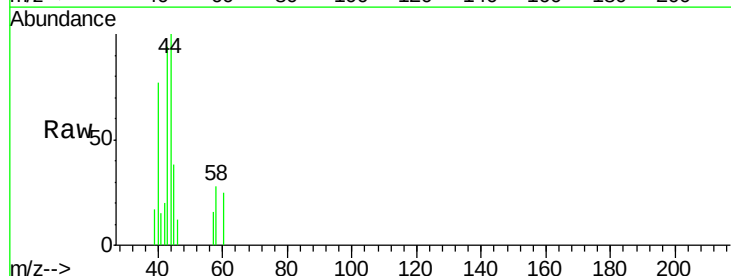
Instrument :
 MSVOA_N
 ClientSampled :
 55-ST-2

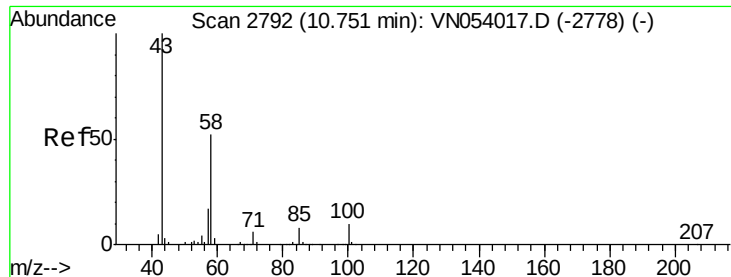
Tot Ion:117 Resp: 504852
 Ion Ratio Lower Upper
 117 100
 82 54.8 44.2 66.2
 119 31.7 25.4 38.2



#58
 4-Methyl-2-Pentanone
 Concen: 0.277 ug/l
 RT: 9.99 min Scan# 2555
 Delta R.T. 0.00 min
 Lab File: VN054028.D
 Acq: 1 Mar 2019 14:37

Tgt Ion: 43 Resp: 1573
 Ion Ratio Lower Upper
 43 100
 58 34.7 31.6 47.4
 85 0.0 13.3 19.9#

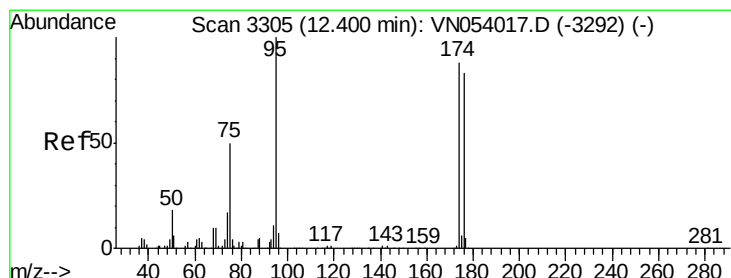
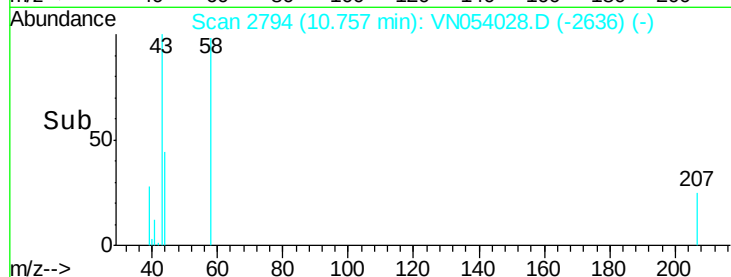
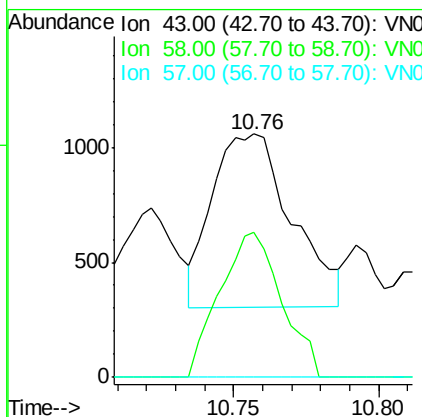
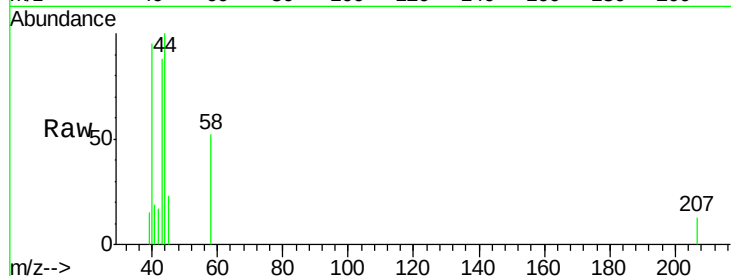




#59
2-Hexanone
Concen: 0.386 ug/l
RT: 10.76 min Scan# 2794
Delta R.T. 0.01 min
Lab File: VN054028.D
Acq: 1 Mar 2019 14:37

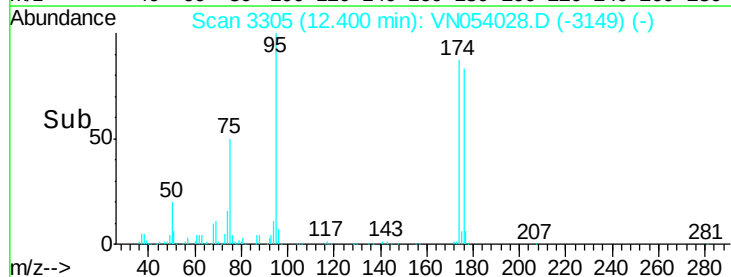
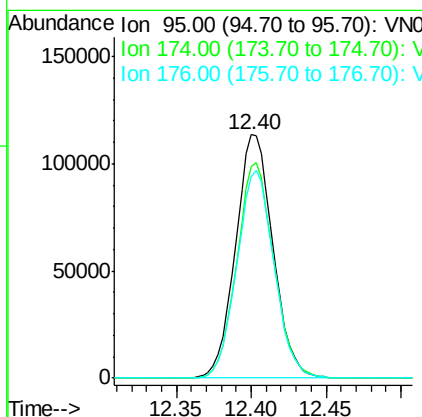
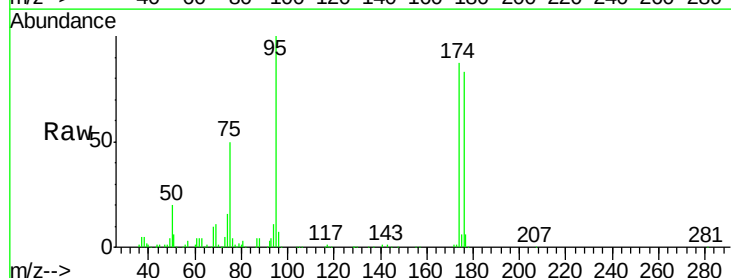
Instrument :
MSVOA_N
ClientSampled :
55-ST-2

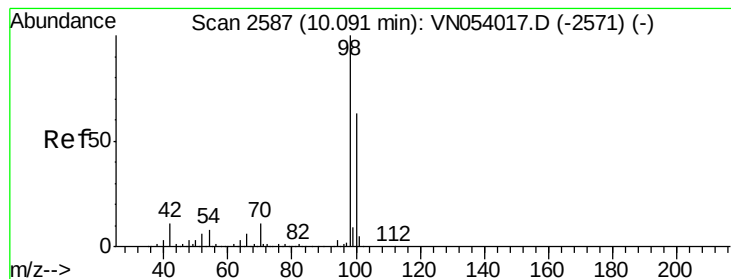
Tot Ion: 43 Resp: 1435
Ion Ratio Lower Upper
43 100
58 65.0 43.2 64.8#
57 0.0 14.9 22.3#



#60
4-Bromofluorobenzene
Concen: 0.386 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN054028.D
Acq: 1 Mar 2019 14:37

Tgt Ion: 95 Resp: 197714
Ion Ratio Lower Upper
95 100
174 87.6 67.9 101.9
176 85.1 66.4 99.6





#63

Toluene-d8

Concen: Below ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN054028.D

Acq: 1 Mar 2019 14:37

Instrument :

MSVOA_N

ClientSampleId :

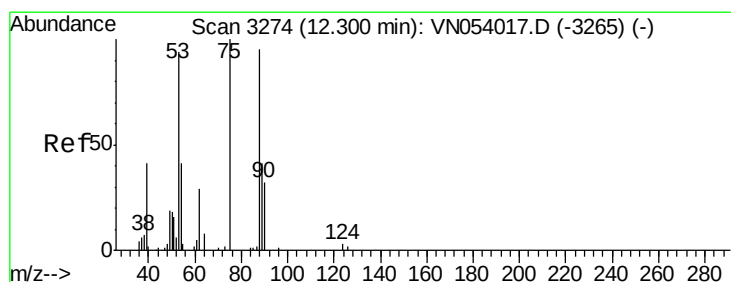
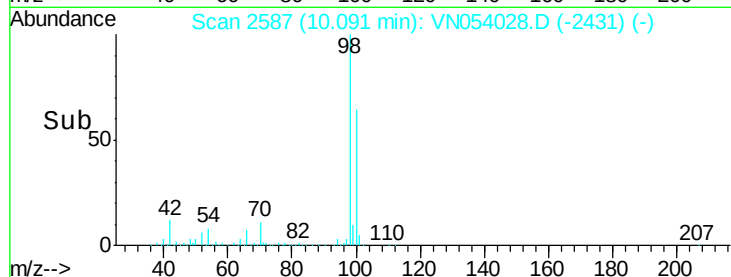
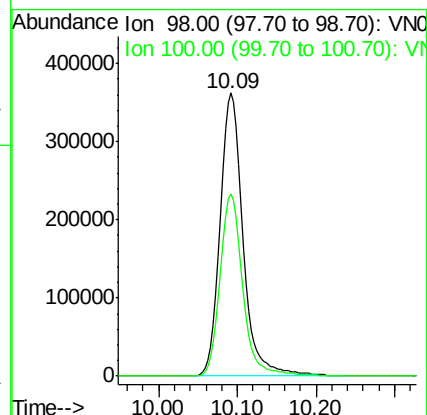
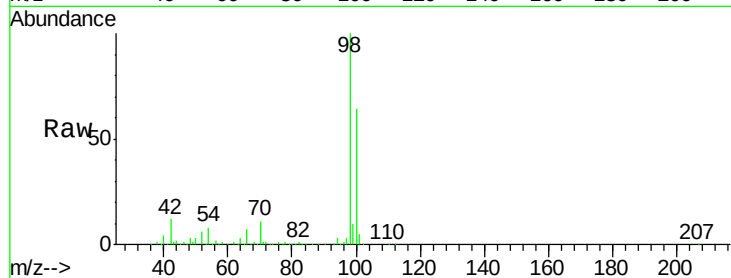
55-ST-2

Tot Ion: 98 Resp: 728986

Ion Ratio Lower Upper

98 100

100 63.9 51.1 76.7



#77

t-1,4-Dichloro-2-butene

Concen: 53.148 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054028.D

Acq: 1 Mar 2019 14:37

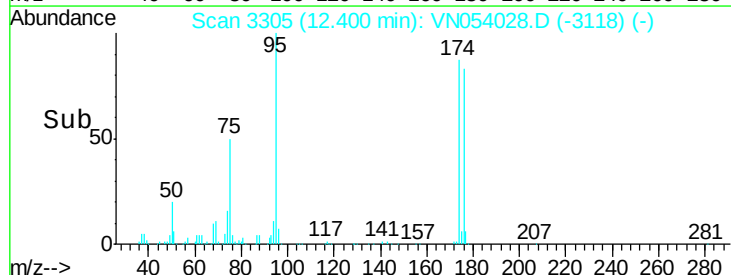
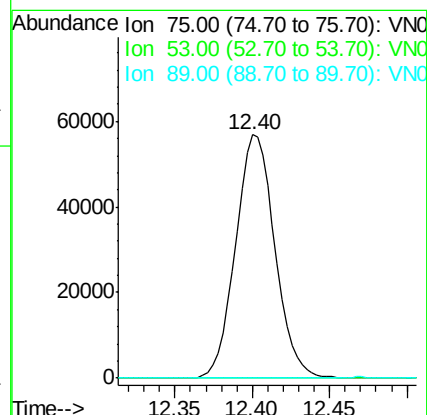
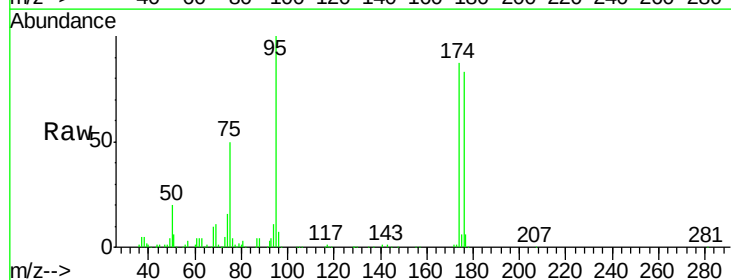
Tgt Ion: 75 Resp: 100133

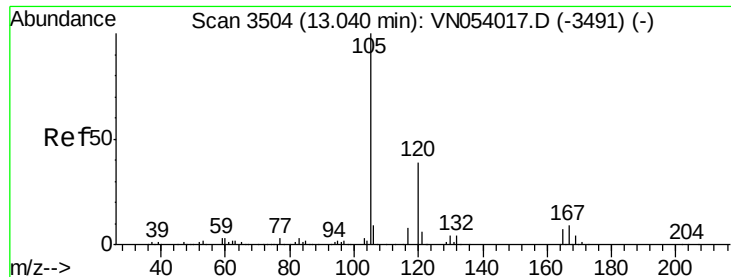
Ion Ratio Lower Upper

75 100

53 0.0 48.5 145.6#

89 0.0 21.7 65.1#

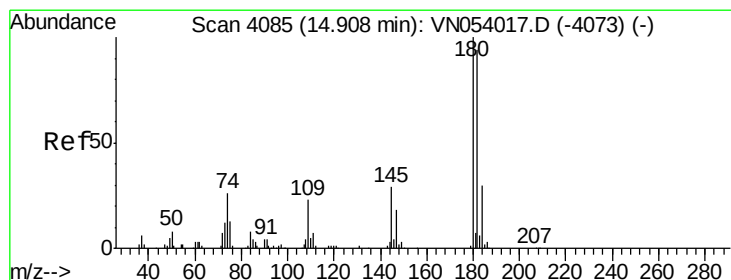
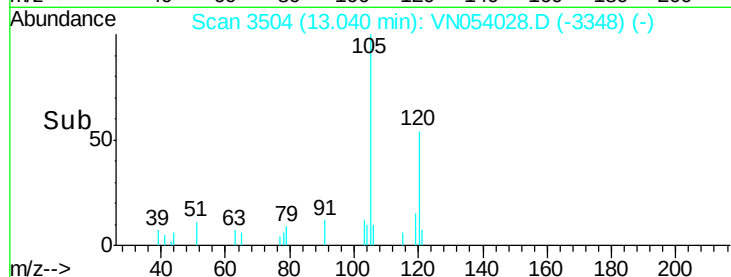
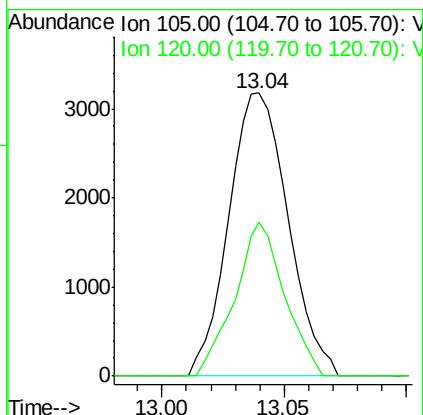
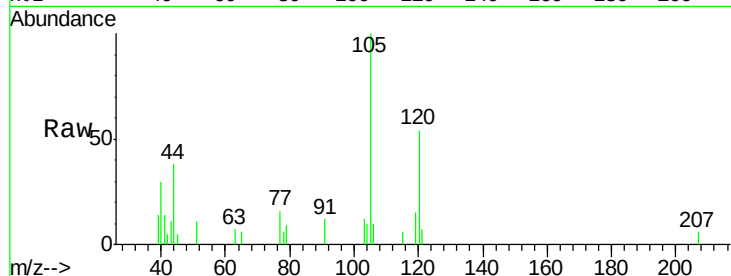




#80
 1,2,4-Trimethylbenzene
 Concen: 0.225 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.00 min
 Lab File: VN054028.D
 Acq: 1 Mar 2019 14:37

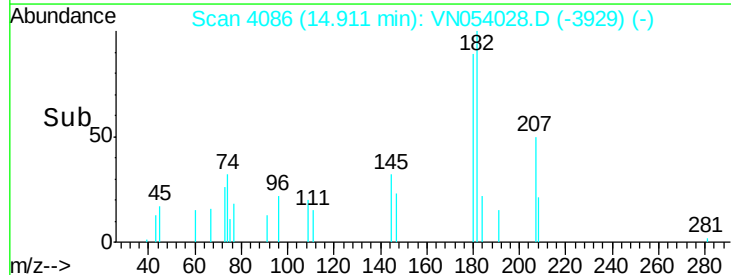
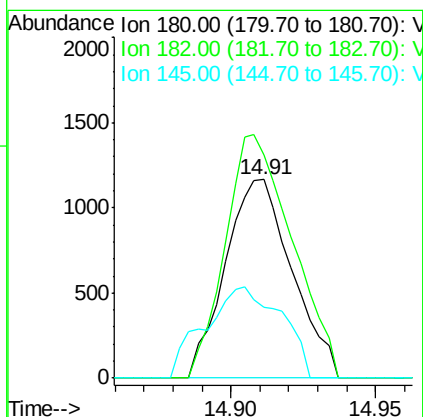
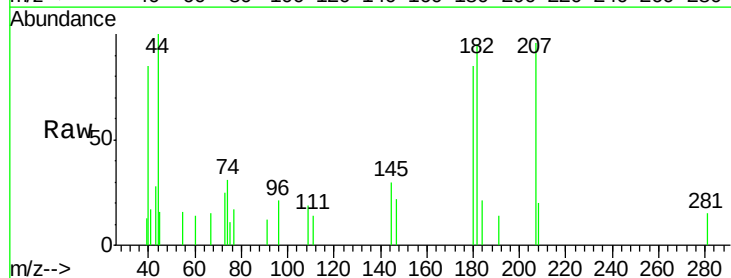
Instrument :
 MSVOA_N
 ClientSampled :
 55-ST-2

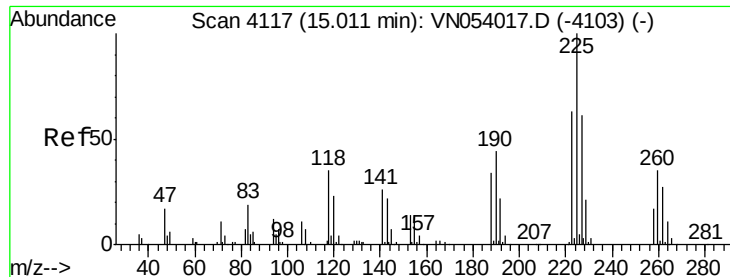
Tot Ion:105 Resp: 5364
 Ion Ratio Lower Upper
 105 100
 120 45.4 0.0 91.0



#89
 1,2,4-Trichlorobenzene
 Concen: 0.300 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN054028.D
 Acq: 1 Mar 2019 14:37

Tgt Ion:180 Resp: 1860
 Ion Ratio Lower Upper
 180 100
 182 122.7 76.6 114.8#
 145 42.3 23.6 35.4#





#90

Hexachlorobutadiene

Concen: 0.208 ug/l

RT: 15.01 min Scan# 4117

Delta R.T. -0.00 min

Lab File: VN054028.D

Acq: 1 Mar 2019 14:37

Instrument :

MSVOA_N

ClientSampleId :

55-ST-2

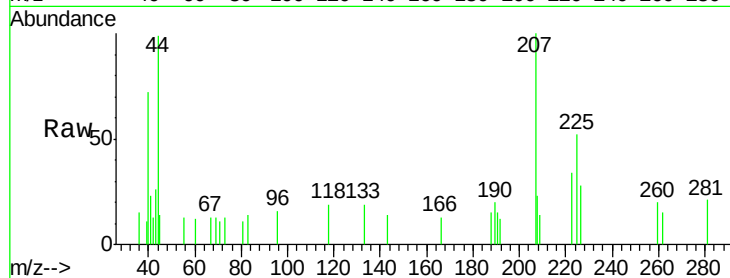
Tot Ion:225 Resp: 937

Ion Ratio Lower Upper

225 100

223 68.9 0.0 125.6

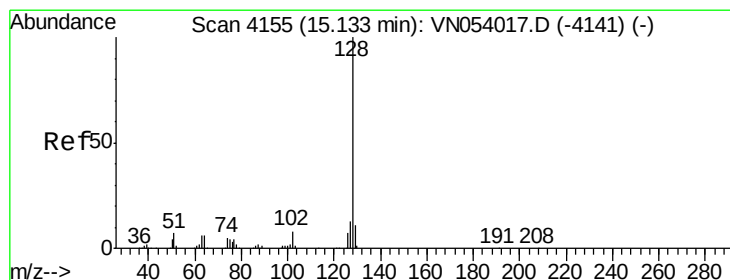
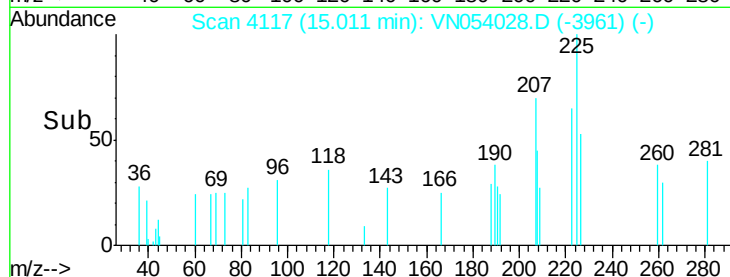
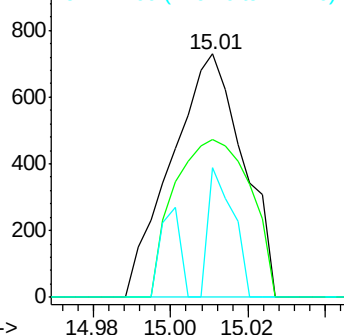
227 18.8 0.0 127.8



Abundance Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V



#91

Naphthalene

Concen: 7.509 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN054028.D

Acq: 1 Mar 2019 14:37

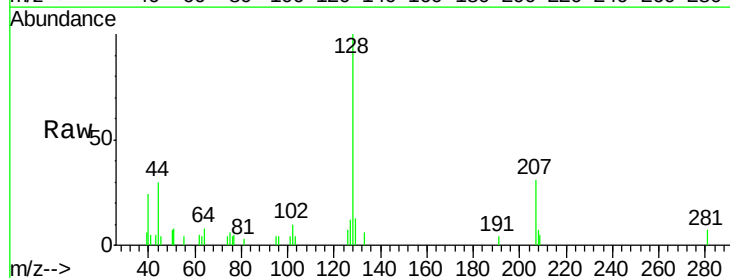
Tgt Ion:128 Resp: 8502

Ion Ratio Lower Upper

128 100

127 12.4 9.9 14.9

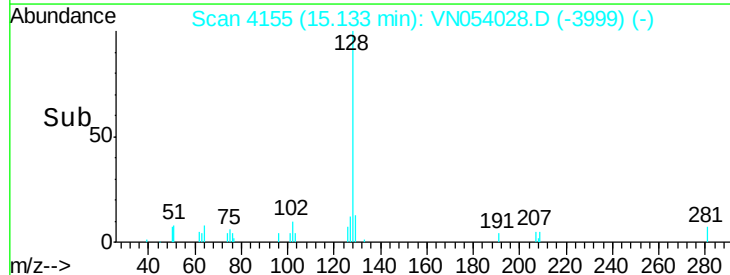
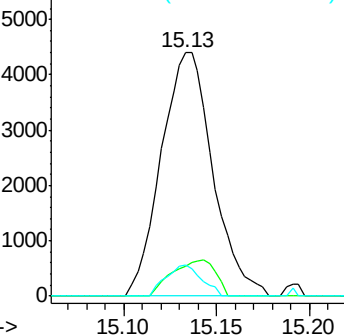
129 8.8 8.5 12.7

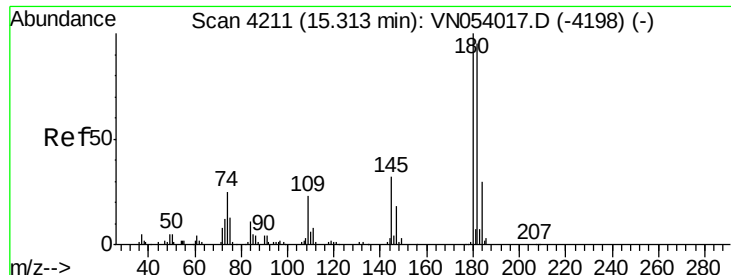


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

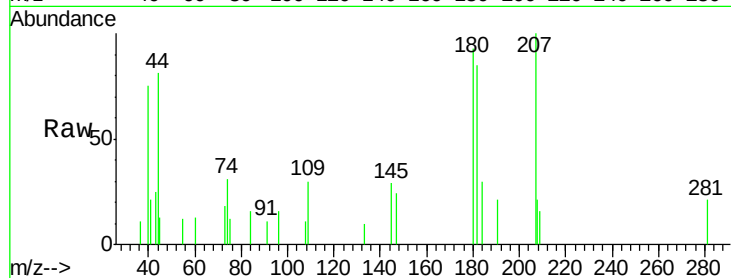




#92
 1,2,3-Trichlorobenzene
 Concen: 0.393 ug/l
 RT: 15.31 min Scan# 4210
 Delta R.T. -0.00 min
 Lab File: VN054028.D
 Acq: 1 Mar 2019 14:37

Instrument :
 MSVOA_N
 ClientSampleId :
 55-ST-2

Tot Ion:180 Resp: 2404
 Ion Ratio Lower Upper
 180 100
 182 91.6 0.0 196.2
 145 2.7 0.0 62.2



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

