

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW093020\
 Data File : VW016709.D
 Acq On : 30 Sep 2020 13:17
 Operator : SY/VA
 Sample : L4171-15
 Misc : 6.46G/10ML/MSVOA W/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 BG3Y5

Quant Time: Oct 01 05:06:55 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM091520S.M
 Quant Title : VOC Analysis
 QLast Update : Thu Oct 01 05:05:13 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.85	114	652298	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	532130	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	200957	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.37	65	123977	19.64	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	78.56%
7) Chloroethane-d5	2.90	69	113865	22.09	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	88.36%
10) 1,1-Dichloroethene-d2	4.03	63	199237	14.11	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	56.44%
20) 2-Butanone-d5	7.09	46	59118	34.34	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	68.68%
24) Chloroform-d	7.65	84	316931	23.23	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	92.92%
26) 1,2-Dichloroethane-d4	8.31	65	153398	21.90	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	87.60%
29) Benzene-d6	8.28	84	617274	25.86	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	103.44%
33) 1,2-Dichloropropane-d6	9.28	67	185743	28.72	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	114.88%
37) Toluene-d8	10.33	98	1625864	69.25	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	277.00%#
38) trans-1,3-Dichloropropene-	10.59	79	67274	20.64	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	82.56%
39) 2-Hexanone-d5	10.93	63	56312	47.87	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	95.74%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	114043	20.72	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	82.88%
61) 1,2-Dichlorobenzene-d4	13.85	152	153124	23.85	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	95.40%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chloromethane	2.48	50	1881	0.319	ug/L	99
13) Acetone	4.14	43	35909	26.630	ug/L	86
16) Methylene chloride	4.92	84	40170	3.993	ug/L #	1
17) Methyl tert-butyl Ether	5.45	73	4365	0.386	ug/L #	1
21) 2-Butanone	7.17	43	156436	68.191	ug/L #	48
30) Cyclohexane	7.96	56	371628	31.958	ug/L	97
35) Trichloroethene	9.08	95	5239	0.635	ug/L #	1
36) Methylcyclohexane	9.34	83	664747	47.493	ug/L #	47
40) 1,2-Dichloropropane	9.32	63	9736	1.468	ug/L #	1
41) Bromodichloromethane	9.68	83	34168	3.476	ug/L #	24
43) 4-Methyl-2-pentanone	10.22	43	19853	4.711	ug/L #	56
44) Toluene	10.37	91	28341	0.884	ug/L #	40
46) 1,1,2-Trichloroethane	10.77	97	3477749	622.313	ug/L #	22
49) 2-Hexanone	10.94	43	1644286	614.740	ug/L #	22
50) Dibromochloromethane	11.05	129	5602	0.768	ug/L #	60
52) Chlorobenzene	11.66	112	2961784	137.485	ug/L	99
53) Ethylbenzene	11.73	91	65894	1.810	ug/L	96

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 Quant Title : VOC Analysis
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

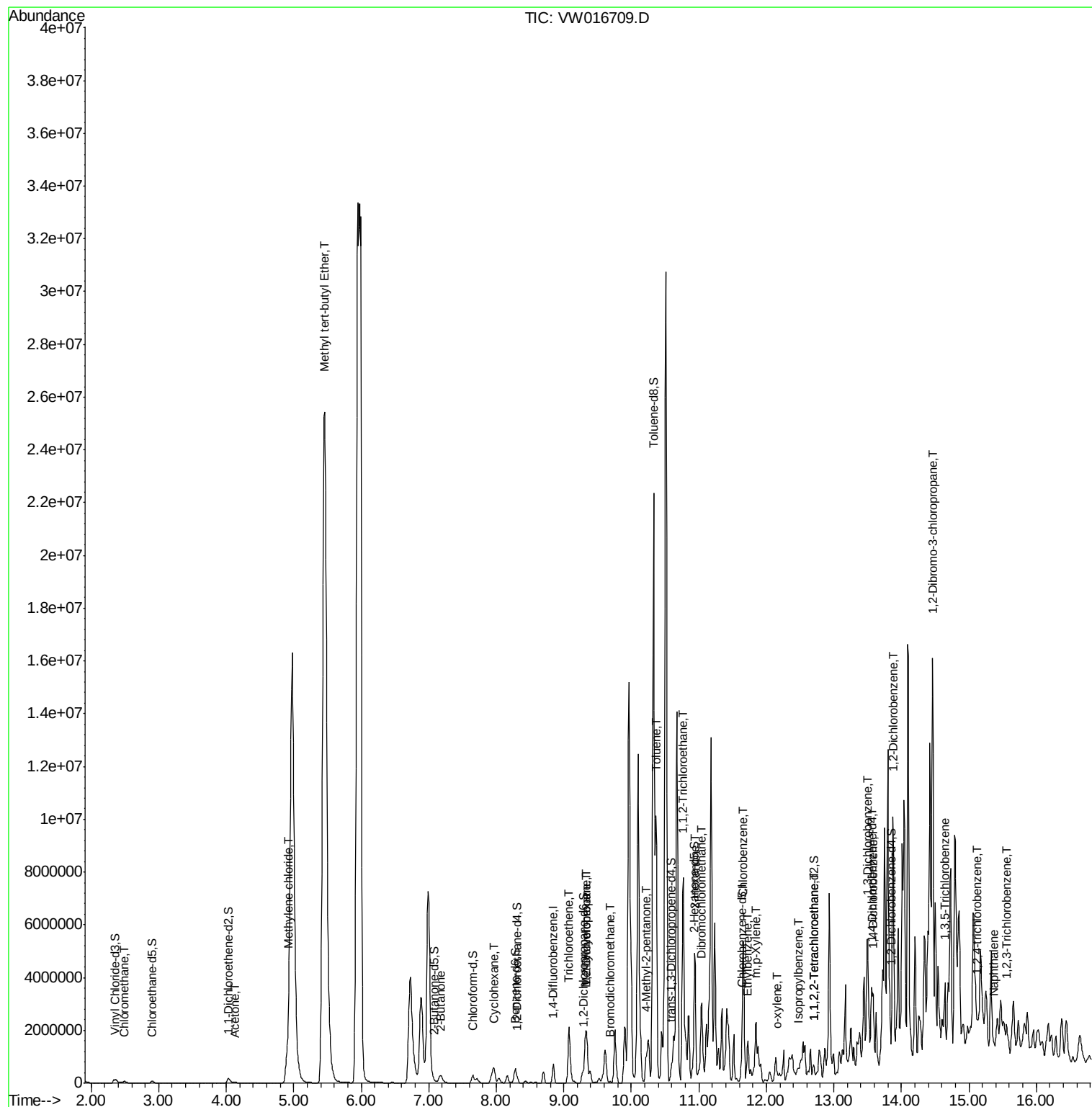
54) m,p-Xylene	11.84	106	36511	2.561	ug/L	99
55) o-xylene	12.17	106	6365	0.466	ug/L	97
57) Isopropylbenzene	12.47	105	108699	2.912	ug/L #	92
58) 1,1,2,2-Tetrachloroethane	12.69	83	11644	1.863	ug/L #	64
63) 1,3-Dichlorobenzene	13.50	146	1097730	83.982	ug/L	94
64) 1,4-Dichlorobenzene	13.58	146	1040998	81.324	ug/L	90
65) 1,2-Dichlorobenzene	13.87	146	52699	4.512	ug/L #	17
66) 1,2-Dibromo-3-chloropropan	14.46	75	67220	80.293	ug/L #	1
67) 1,3,5-Trichlorobenzene	14.63	180	82590	8.640	ug/L #	93
68) 1,2,4-trichlorobenzene	15.13	180	128888	16.667	ug/L #	1
69) Naphthalene	15.37	128	35902	2.619	ug/L #	81
70) 1,2,3-Trichlorobenzene	15.57	180	20086	3.020	ug/L #	1

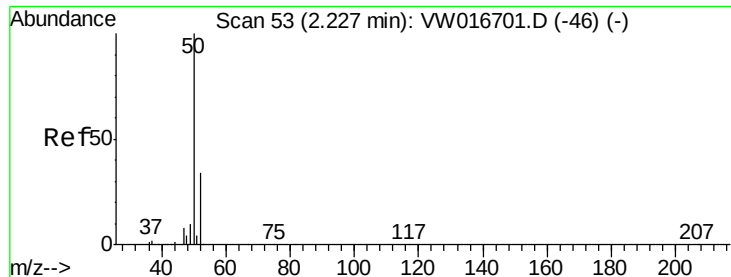
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.319 ug/L

RT: 2.48 min Scan# 95

Delta R.T. 0.26 min

Lab File: VW016709.D

Acq: 30 Sep 2020 13:17

Instrument :

MSVOA_W

ClientSampleId :

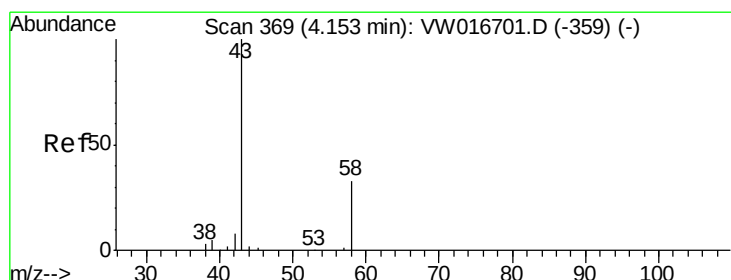
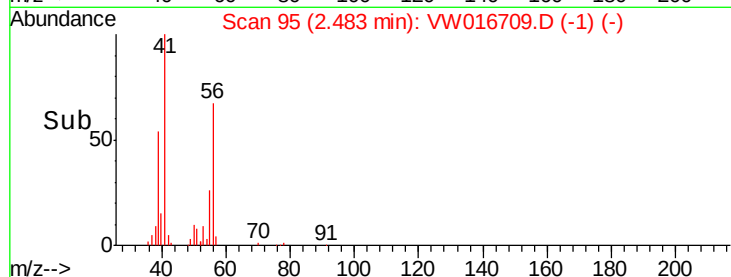
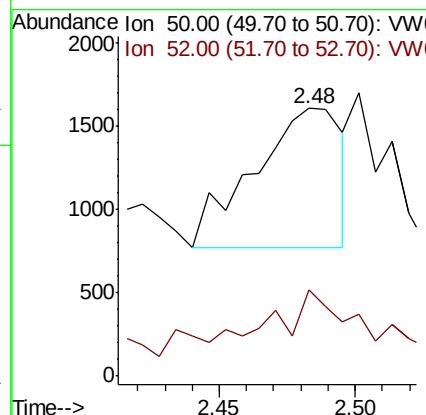
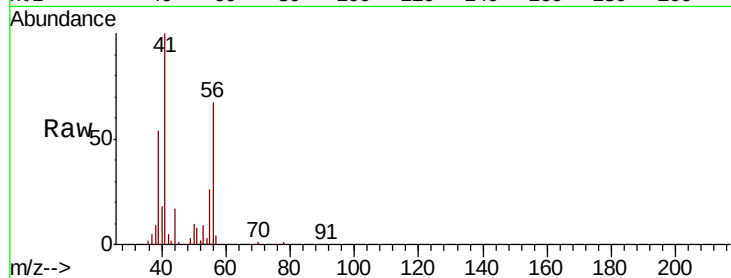
BG3Y5

Tot Ion: 50 Resp: 1881

Ion Ratio Lower Upper

50 100

52 32.3 22.4 41.6



#13

Acetone

Concen: 26.630 ug/L

RT: 4.14 min Scan# 366

Delta R.T. -0.02 min

Lab File: VW016709.D

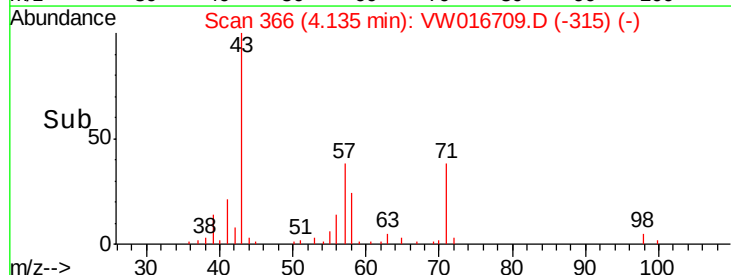
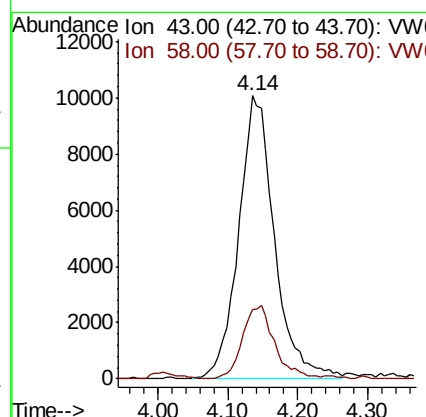
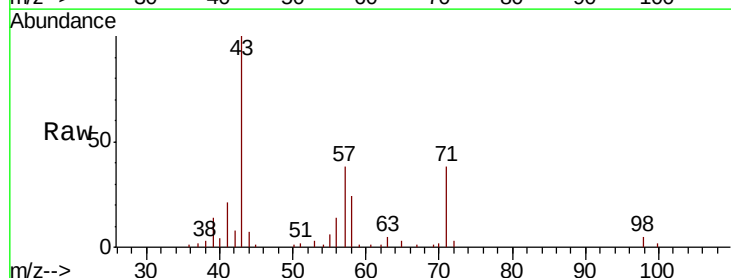
Acq: 30 Sep 2020 13:17

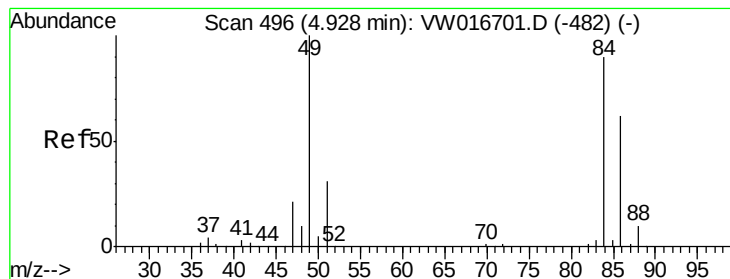
Tgt Ion: 43 Resp: 35909

Ion Ratio Lower Upper

43 100

58 22.8 0.0 60.2





#16

Methylene chloride

Concen: 3.993 ug/L

RT: 4.92 min Scan# 495

Delta R.T. -0.01 min

Lab File: VW016709.D

Acq: 30 Sep 2020 13:17

Instrument :

MSVOA_W

ClientSampleId :

BG3Y5

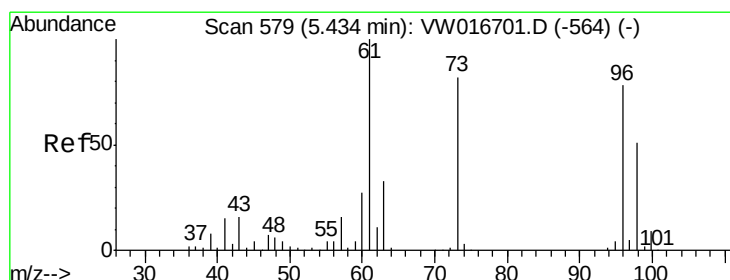
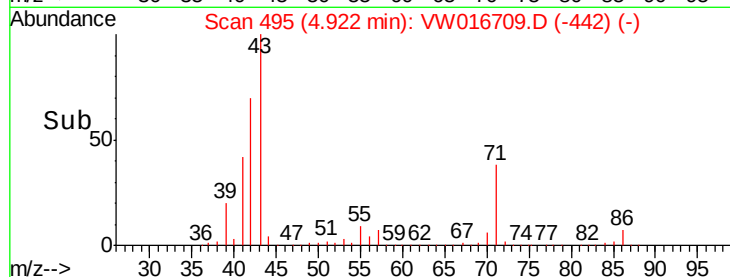
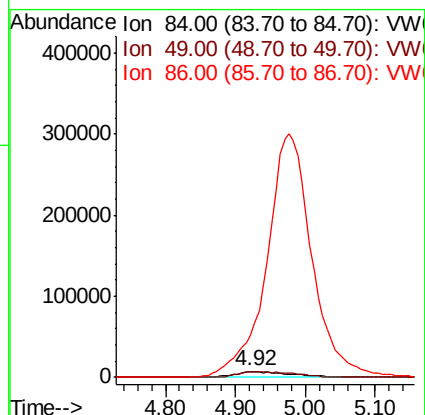
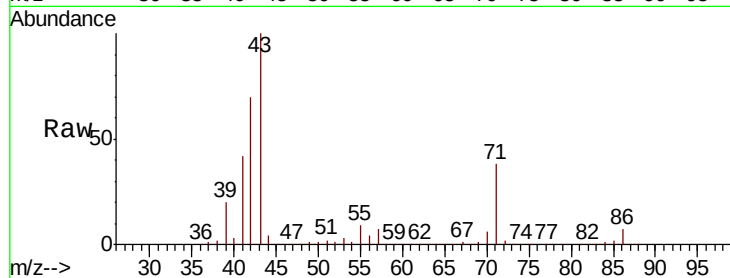
Tot Ion: 84 Resp: 40170

Ion Ratio Lower Upper

84 100

49 99.4 76.0 141.2

86 783.0 45.6 84.6#



#17

Methyl tert-butyl Ether

Concen: 0.386 ug/L

RT: 5.45 min Scan# 581

Delta R.T. 0.01 min

Lab File: VW016709.D

Acq: 30 Sep 2020 13:17

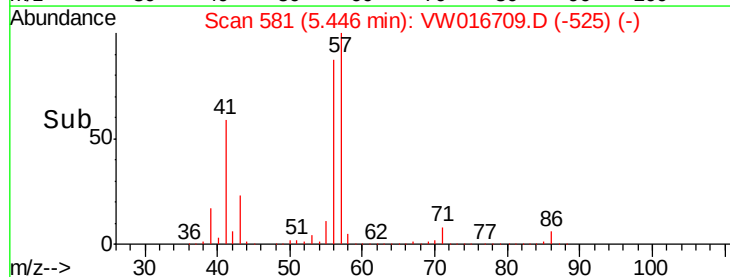
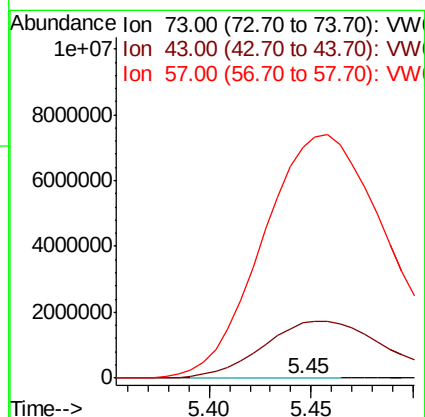
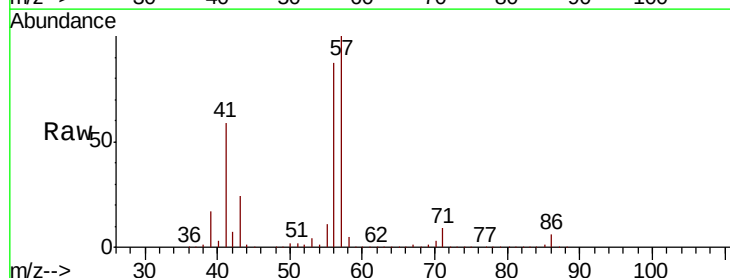
Tgt Ion: 73 Resp: 4365

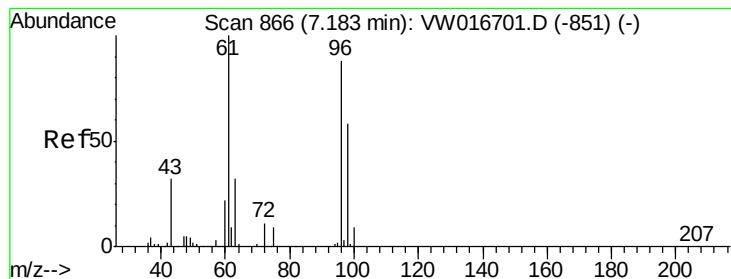
Ion Ratio Lower Upper

73 100

43 172239.0 17.2 25.8#

57 758089.7 16.3 24.5#





#21

2-Butanone

Concen: 68.191 ug/L

RT: 7.17 min Scan# 864

Delta R.T. -0.01 min

Lab File: VW016709.D

Acq: 30 Sep 2020 13:17

Instrument :

MSVOA_W

ClientSampleId :

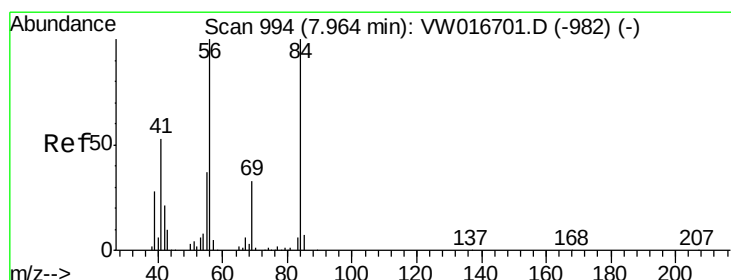
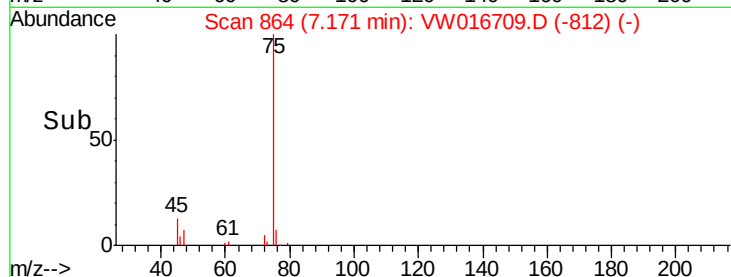
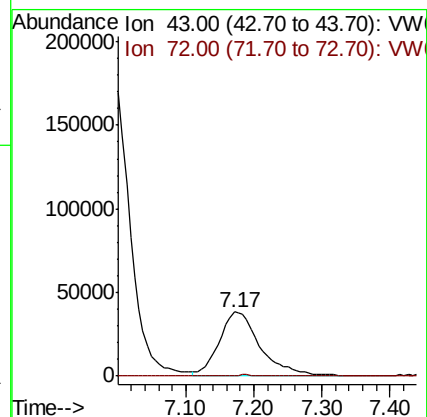
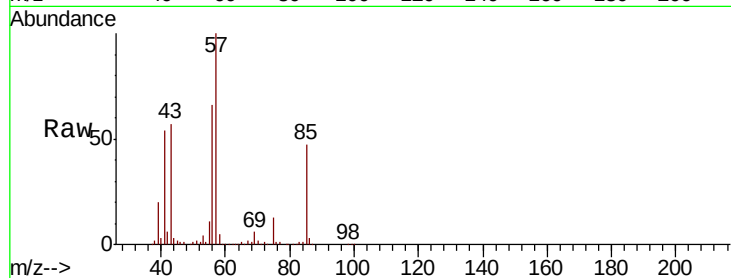
BG3Y5

Tot Ion: 43 Resp: 156436

Ion Ratio Lower Upper

43 100

72 1.6 14.6 43.8#



#30

Cyclohexane

Concen: 31.958 ug/L

RT: 7.96 min Scan# 994

Delta R.T. -0.00 min

Lab File: VW016709.D

Acq: 30 Sep 2020 13:17

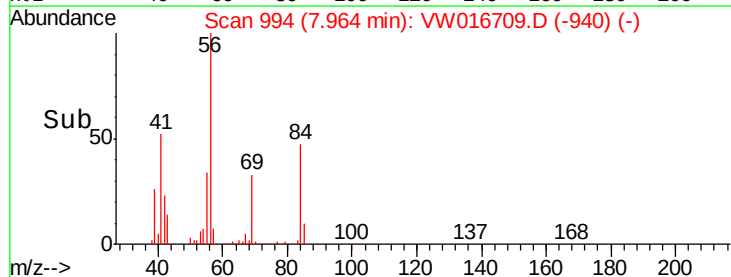
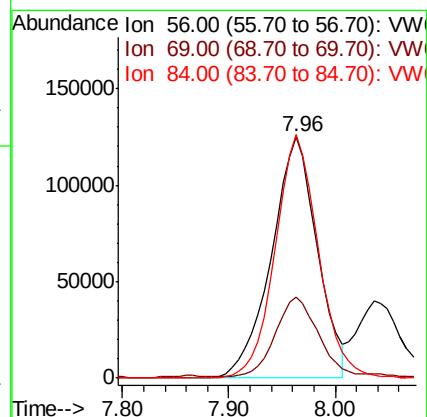
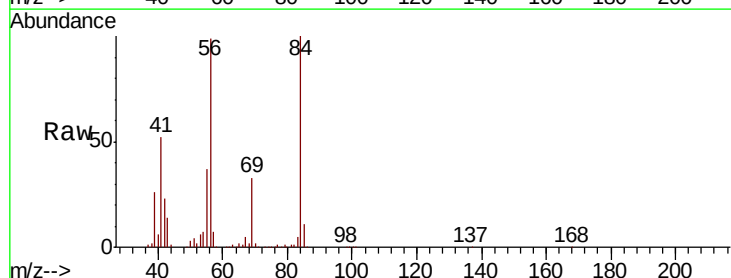
Tgt Ion: 56 Resp: 371628

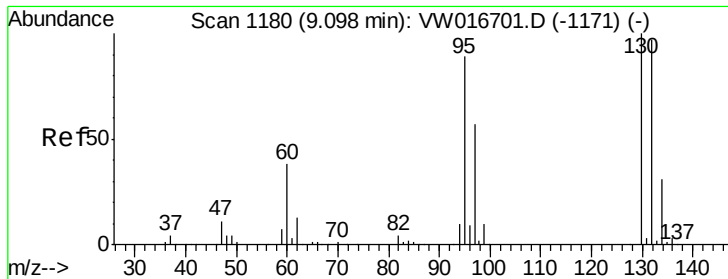
Ion Ratio Lower Upper

56 100

69 32.8 26.5 39.7

84 95.6 79.0 118.6





#35

Trichloroethene

Concen: 0.635 ug/L

RT: 9.08 min Scan# 1177

Delta R.T. -0.02 min

Lab File: VW016709.D

Acq: 30 Sep 2020 13:17

Instrument :

MSVOA_W

ClientSampled :

BG3Y5

Tot Ion: 95 Resp: 5239

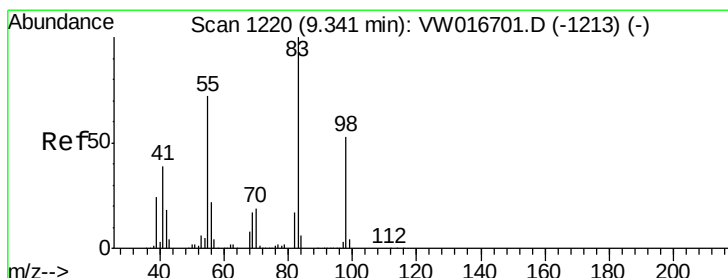
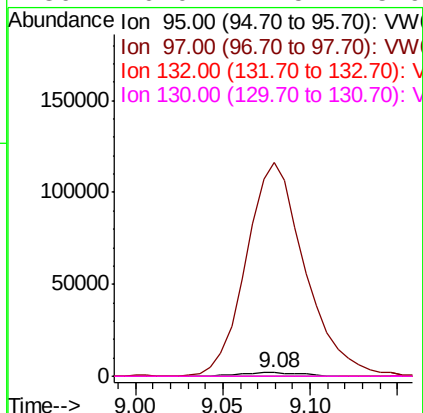
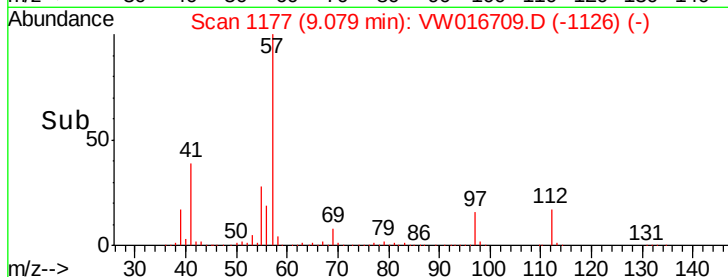
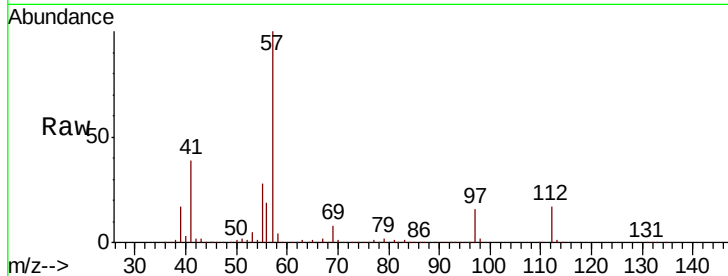
Ion Ratio Lower Upper

95 100

97 5234.1 45.2 84.0#

132 2.7 73.3 136.1#

130 0.0 77.5 143.9#



#36

Methylcyclohexane

Concen: 47.493 ug/L

RT: 9.34 min Scan# 1220

Delta R.T. -0.00 min

Lab File: VW016709.D

Acq: 30 Sep 2020 13:17

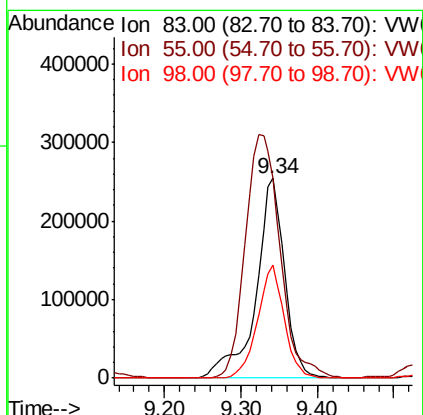
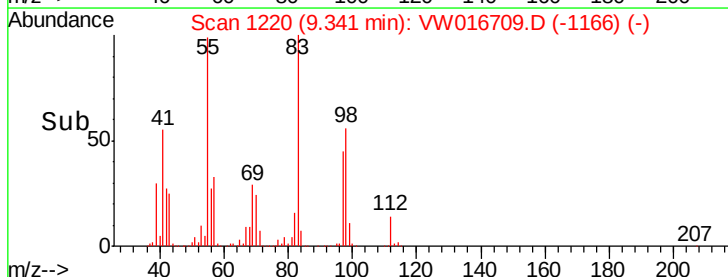
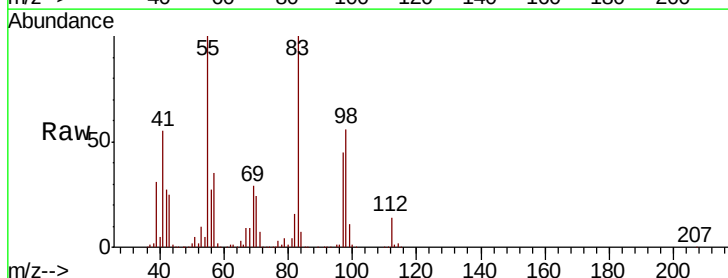
Tgt Ion: 83 Resp: 664747

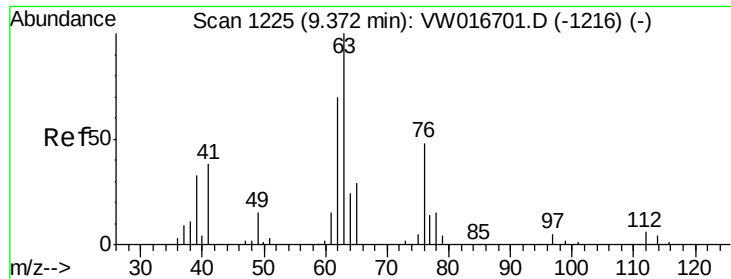
Ion Ratio Lower Upper

83 100

55 146.3 55.9 83.9#

98 52.4 42.1 63.1





#40

1,2-Dichloropropane

Concen: 1.468 ug/L

RT: 9.32 min Scan# 1217

Delta R.T. -0.05 min

Lab File: VW016709.D

Acq: 30 Sep 2020 13:17

Instrument :

MSVOA_W

ClientSampled :

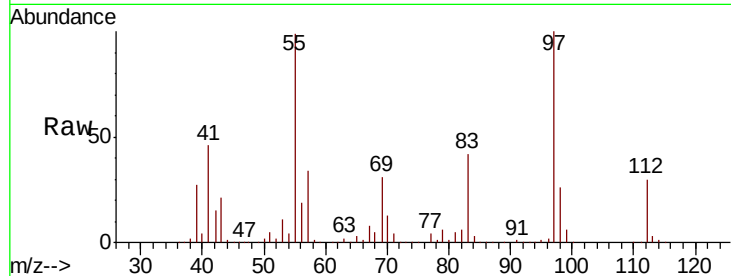
BG3Y5

Tot Ion: 63 Resp: 9736

Ion Ratio Lower Upper

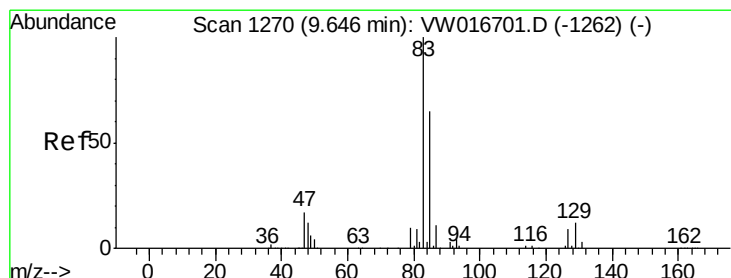
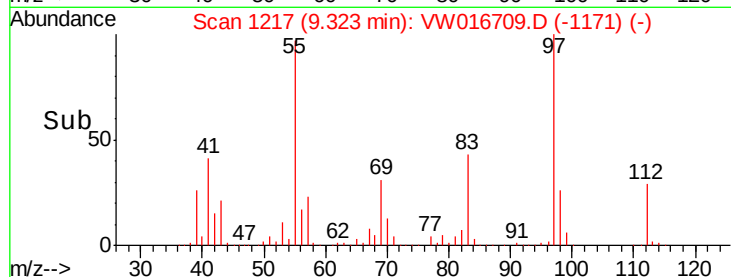
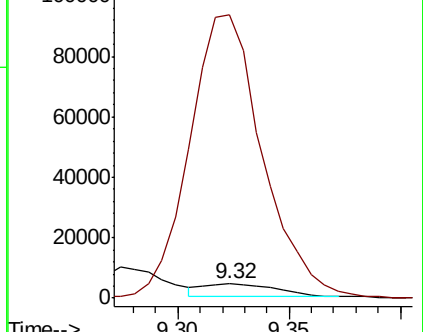
63 100

112 2194.3 4.5 6.7#



Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 112.00 (111.70 to 112.70): V



#41

Bromodichloromethane

Concen: 3.476 ug/L

RT: 9.68 min Scan# 1276

Delta R.T. 0.04 min

Lab File: VW016709.D

Acq: 30 Sep 2020 13:17

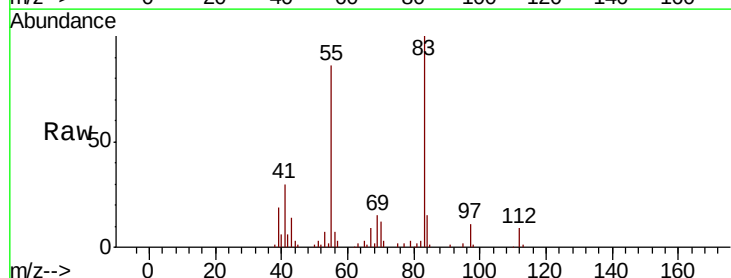
Tgt Ion: 83 Resp: 34168

Ion Ratio Lower Upper

83 100

85 0.6 46.8 86.8#

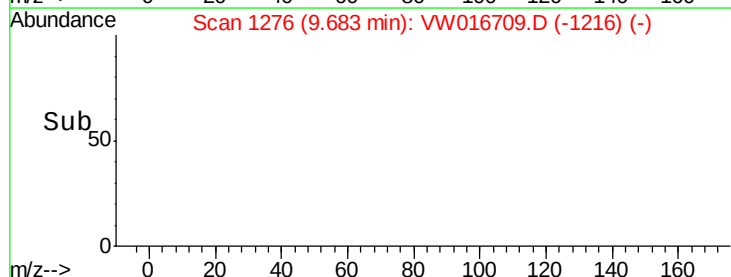
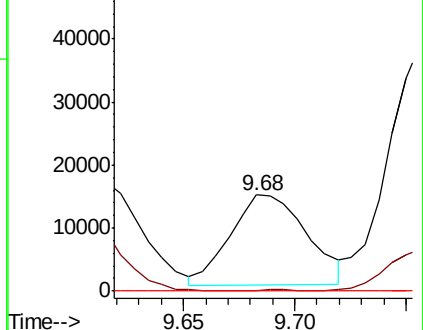
127 0.0 6.8 10.2#

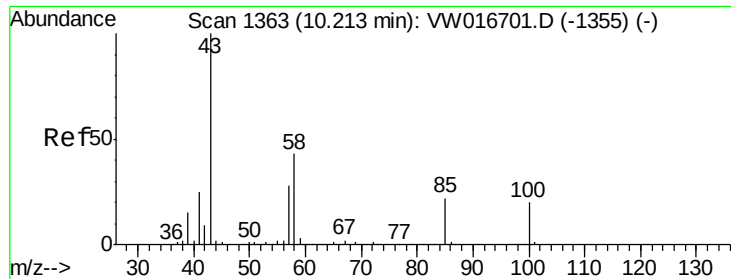


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 127.00 (126.70 to 127.70): V

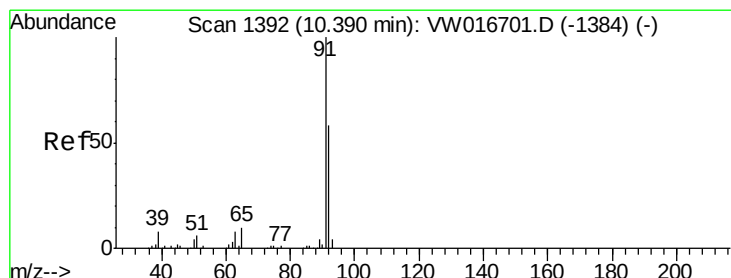
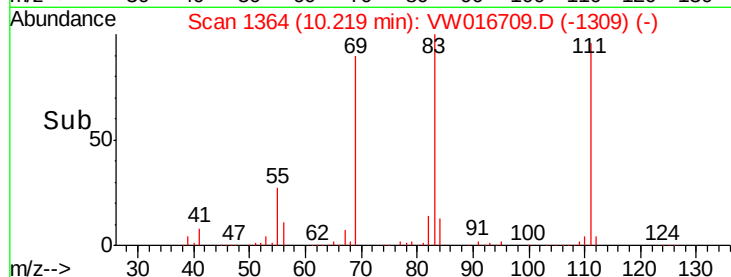
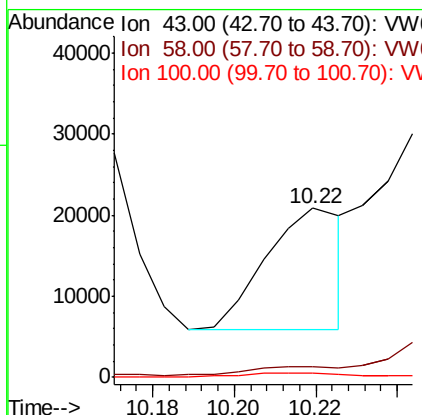
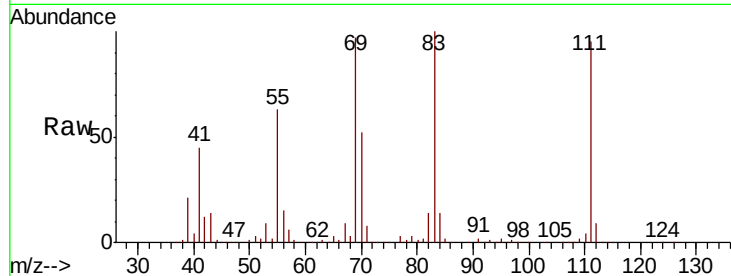




#43
4-Methyl-2-pentanone
Concen: 4.711 ug/L
RT: 10.22 min Scan# 1364
Delta R.T. 0.01 min
Lab File: VW016709.D
Acq: 30 Sep 2020 13:17

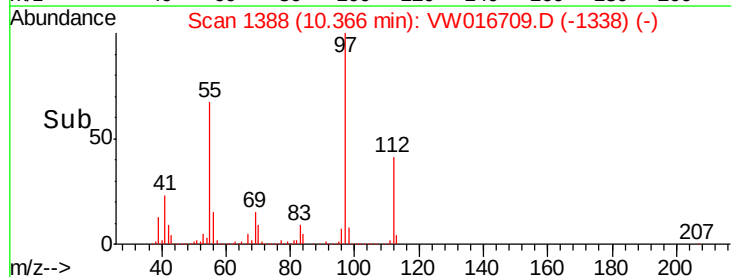
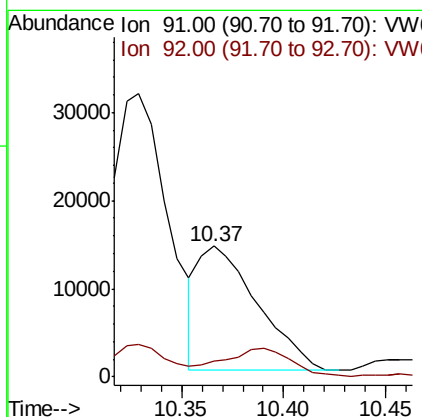
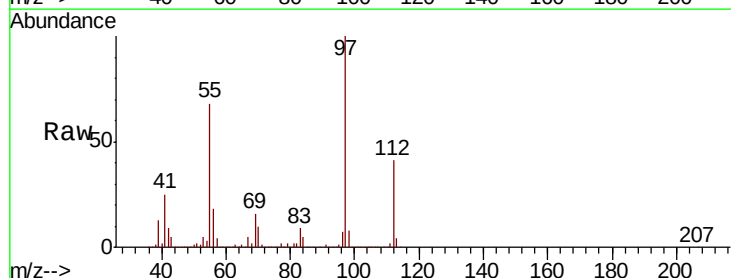
Instrument :
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ClientSampled :
BG3Y5

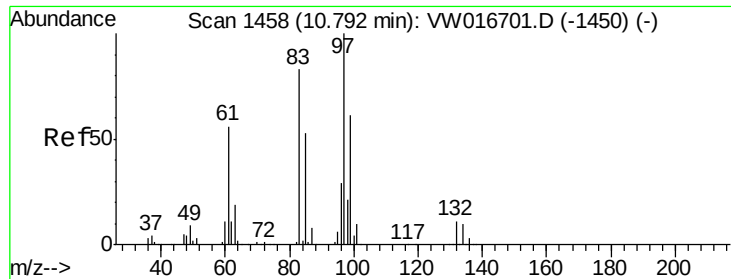
Tot Ion: 43 Resp: 19853
Ion Ratio Lower Upper
43 100
58 9.3 32.2 48.4#
100 4.9 15.8 23.6#



#44
Toluene
Concen: 0.884 ug/L
RT: 10.37 min Scan# 1388
Delta R.T. -0.02 min
Lab File: VW016709.D
Acq: 30 Sep 2020 13:17

Tgt Ion: 91 Resp: 28341
Ion Ratio Lower Upper
91 100
92 12.3 39.6 73.6#



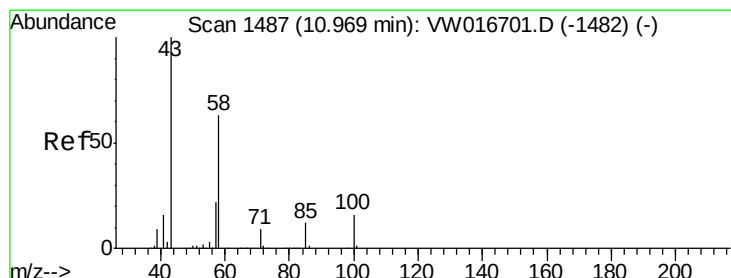
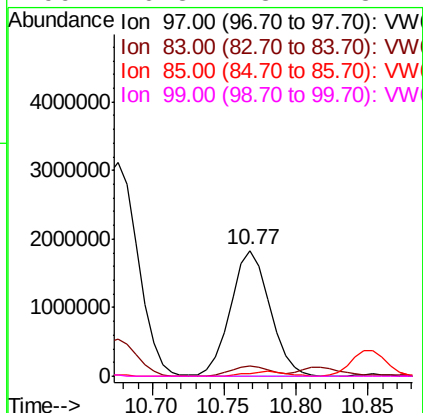
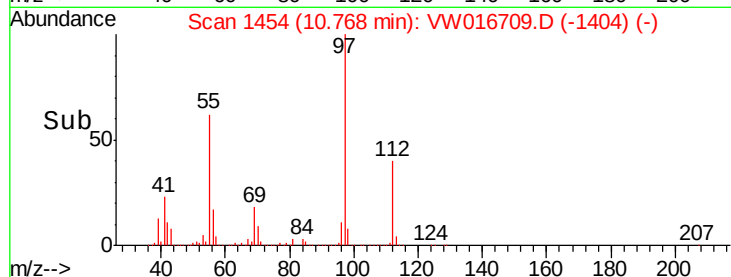
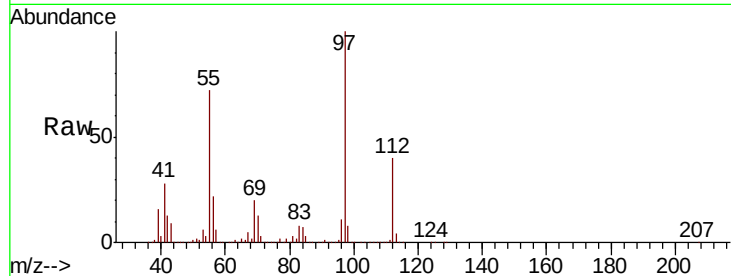


#46
 1,1,2-Trichloroethane
 Concen: 622.313 ug/L
 RT: 10.77 min Scan# 1454
 Delta R.T. -0.02 min
 Lab File: VW016709.D
 Acq: 30 Sep 2020 13:17

Instrument :
 MSVOA_W
 ClientSampled :
 BG3Y5

Tot Ion: 97 Resp: 3477749

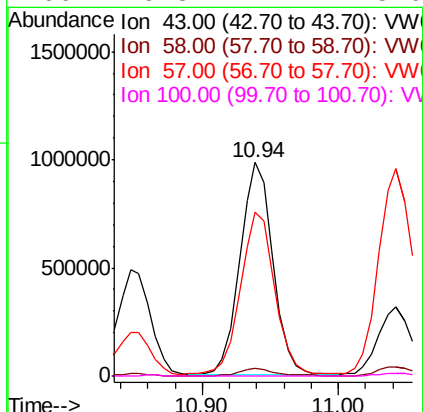
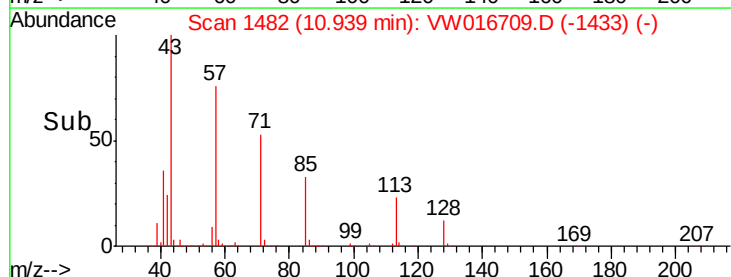
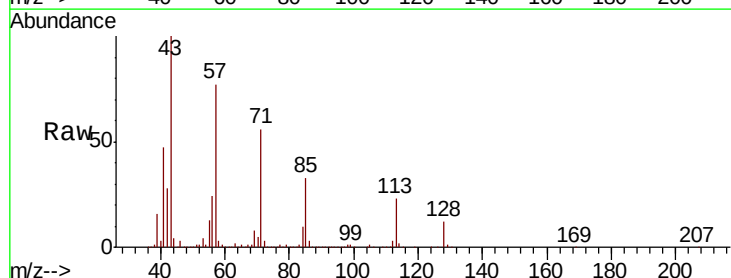
Ion	Ratio	Lower	Upper
97	100		
83	7.9	55.7	103.5#
85	2.5	36.8	68.4#
99	0.3	43.7	81.1#

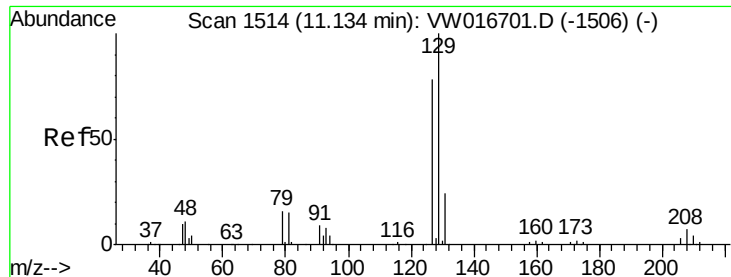


#49
 2-Hexanone
 Concen: 614.740 ug/L
 RT: 10.94 min Scan# 1482
 Delta R.T. -0.03 min
 Lab File: VW016709.D
 Acq: 30 Sep 2020 13:17

Tgt Ion: 43 Resp: 1644286

Ion	Ratio	Lower	Upper
43	100		
58	4.1	44.2	66.2#
57	79.9	16.3	24.5#
100	0.3	12.4	18.6#

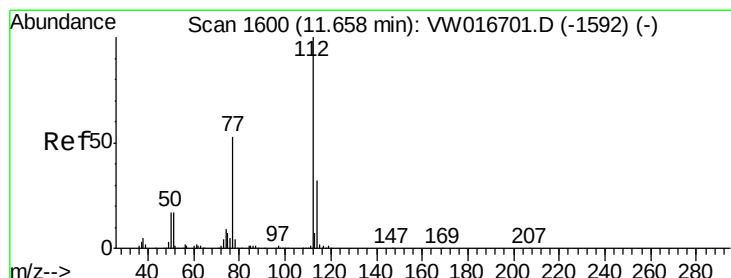
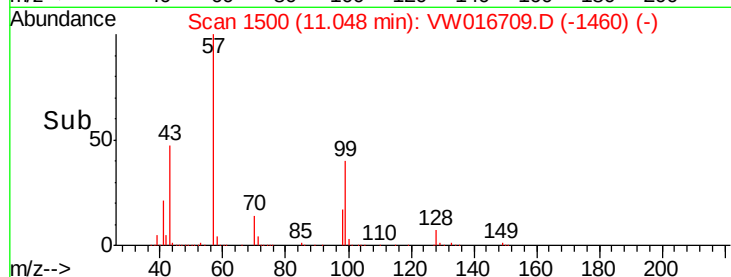
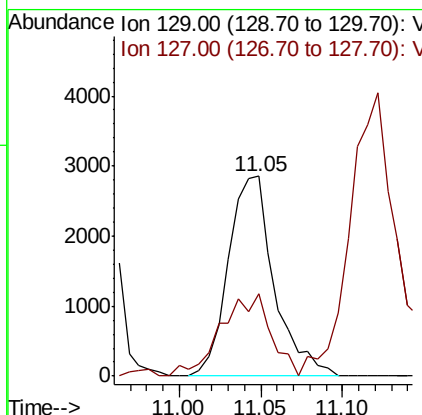
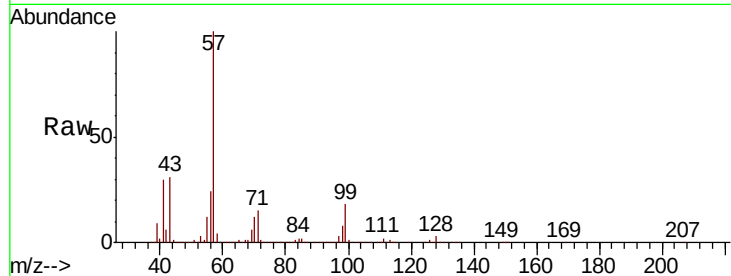




#50
Dibromochloromethane
Concen: 0.768 ug/L
RT: 11.05 min Scan# 1500
Delta R.T. -0.09 min
Lab File: VW016709.D
Acq: 30 Sep 2020 13:17

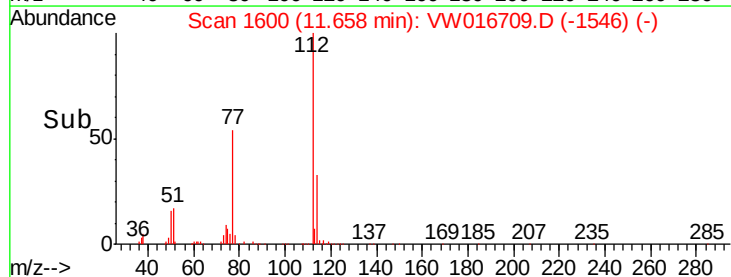
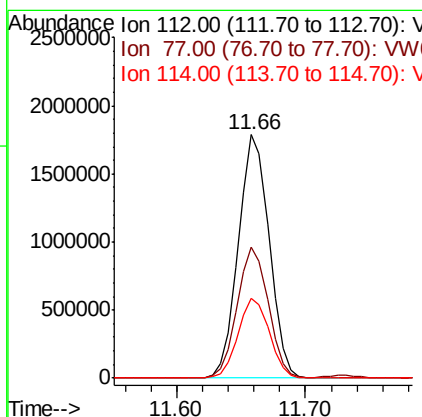
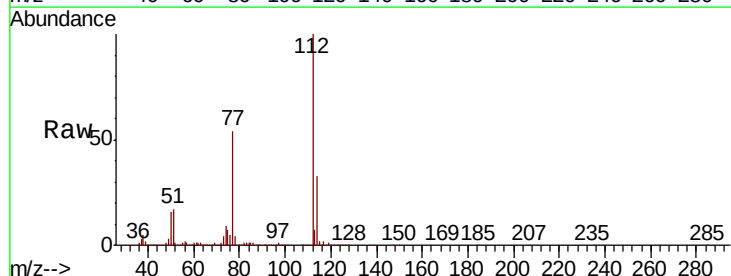
Instrument :
MSVOA_W
ClientSampled :
BG3Y5

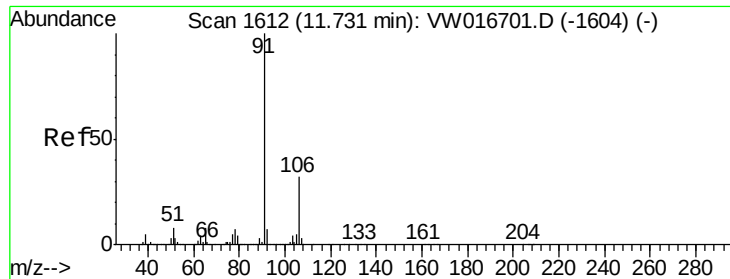
Tot Ion:129 Resp: 5602
Ion Ratio Lower Upper
129 100
127 41.0 52.4 97.4#



#52
Chlorobenzene
Concen: 137.485 ug/L
RT: 11.66 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VW016709.D
Acq: 30 Sep 2020 13:17

Tgt Ion:112 Resp: 2961784
Ion Ratio Lower Upper
112 100
77 53.9 43.1 64.7
114 32.9 22.3 41.3





#53

Ethylbenzene

Concen: 1.810 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW016709.D

Acq: 30 Sep 2020 13:17

Instrument :

MSVOA_W

ClientSampleId :

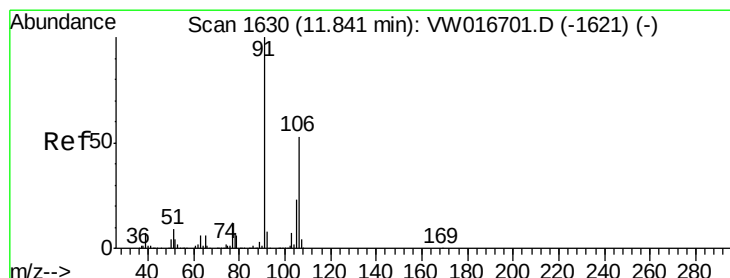
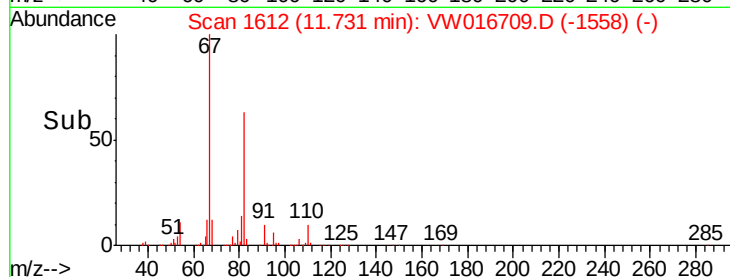
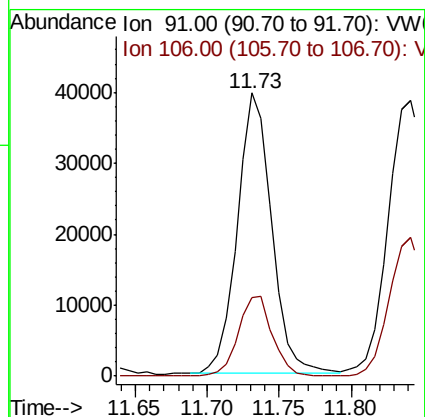
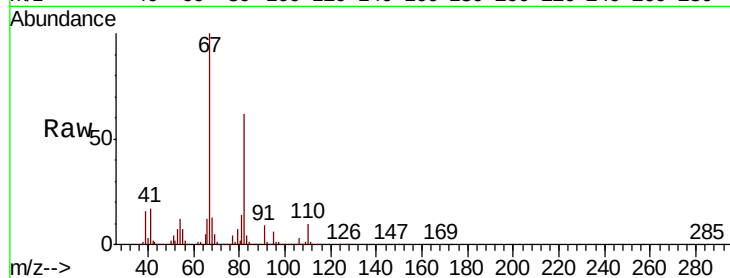
BG3Y5

Tot Ion: 91 Resp: 65894

Ion Ratio Lower Upper

91 100

106 27.6 20.7 38.5



#54

m,p-Xylene

Concen: 2.561 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VW016709.D

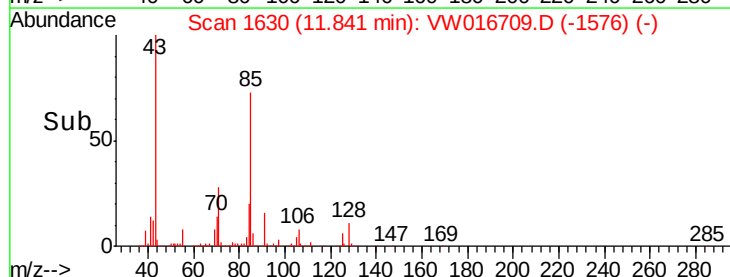
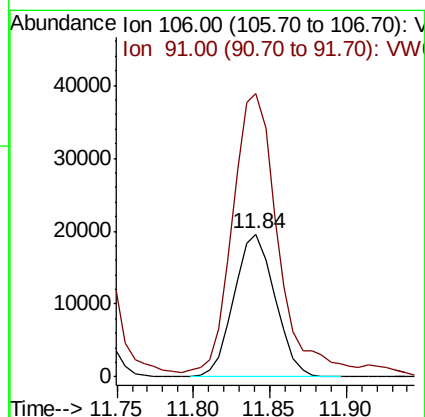
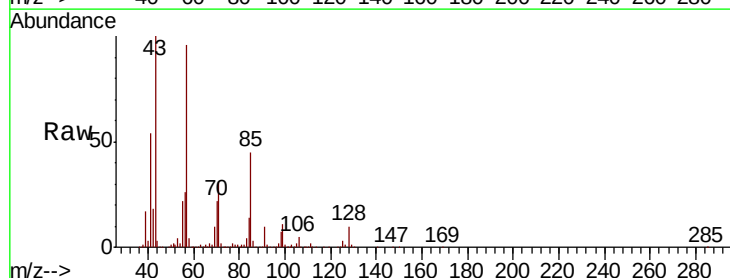
Acq: 30 Sep 2020 13:17

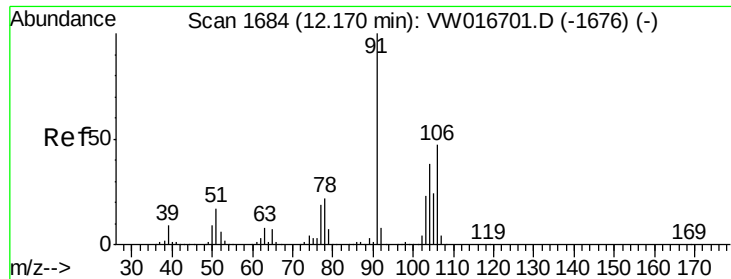
Tgt Ion: 106 Resp: 36511

Ion Ratio Lower Upper

106 100

91 198.2 139.7 259.5

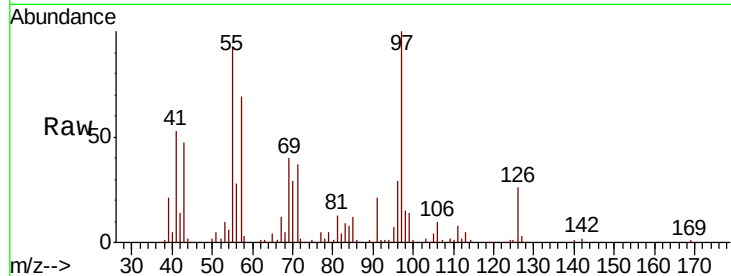




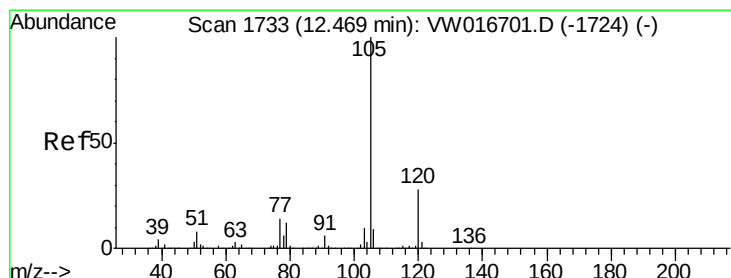
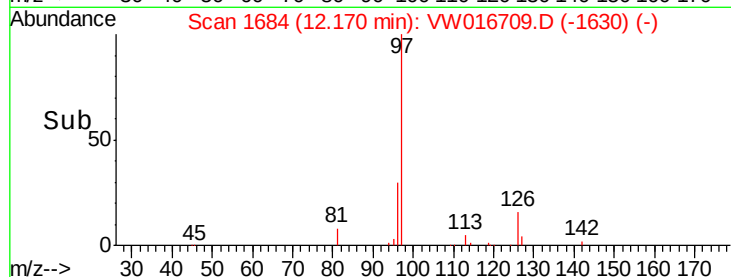
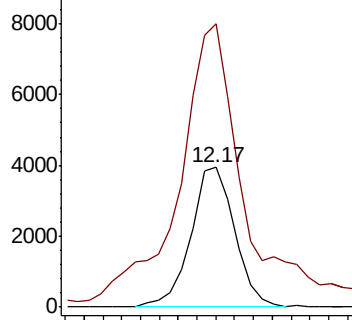
#55
o-xylene
Concen: 0.466 ug/L
RT: 12.17 min Scan# 1684
Delta R.T. -0.00 min
Lab File: VW016709.D
Acq: 30 Sep 2020 13:17

Instrument :
MSVOA_W
ClientSampleId :
BG3Y5

Tot Ion:106 Resp: 6365
Ion Ratio Lower Upper
106 100
91 202.8 144.8 268.8

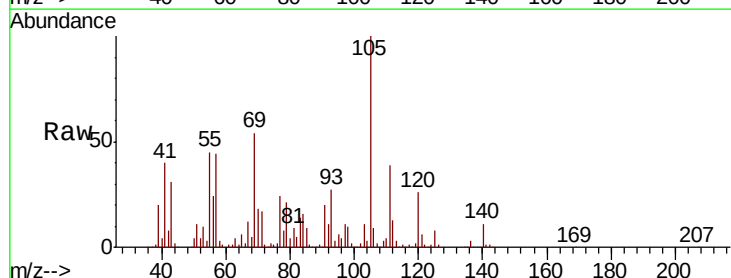


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): V

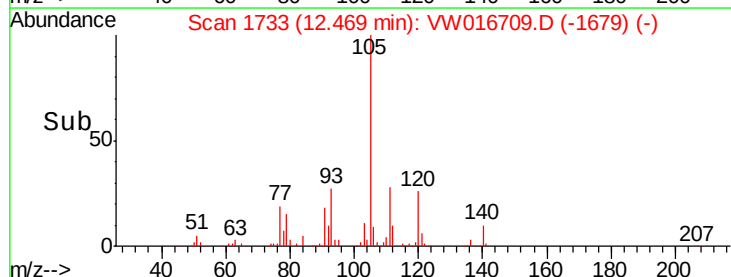
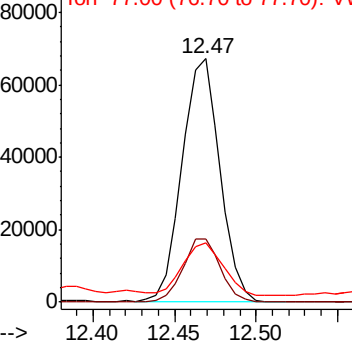


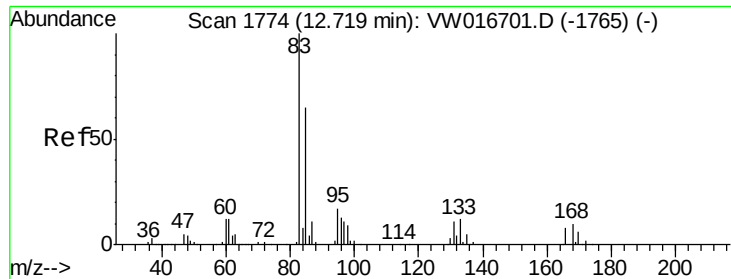
#57
Isopropylbenzene
Concen: 2.912 ug/L
RT: 12.47 min Scan# 1733
Delta R.T. -0.00 min
Lab File: VW016709.D
Acq: 30 Sep 2020 13:17

Tgt Ion:105 Resp: 108699
Ion Ratio Lower Upper
105 100
120 25.7 21.8 32.8
77 22.7 12.2 18.2#



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V
Ion 77.00 (76.70 to 77.70): V





#58

1,1,2,2-Tetrachloroethane

Concen: 1.863 ug/L

RT: 12.69 min Scan# 1770

Delta R.T. -0.02 min

Lab File: VW016709.D

Acq: 30 Sep 2020 13:17

Instrument :

MSVOA_W

ClientSampleId :

BG3Y5

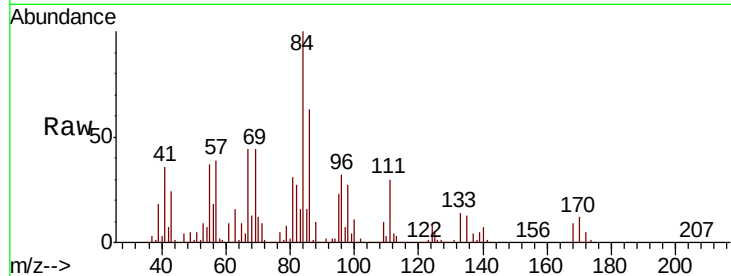
Tot Ion: 83 Resp: 11644

Ion Ratio Lower Upper

83 100

85 98.4 46.0 85.4#

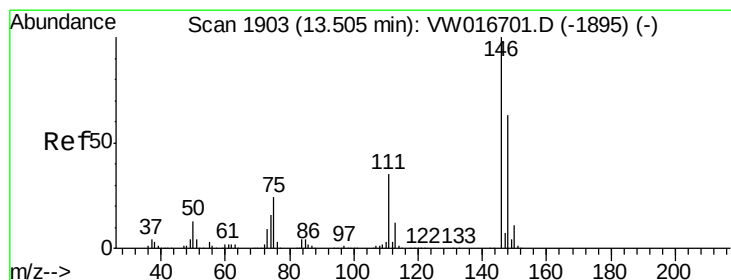
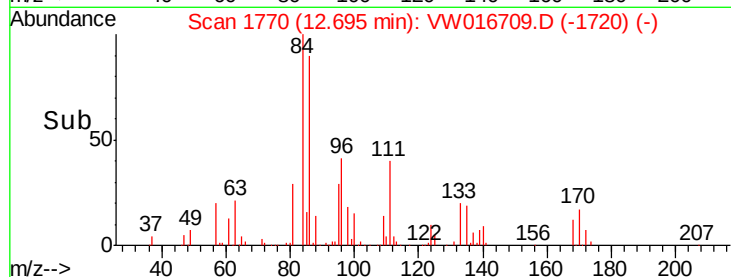
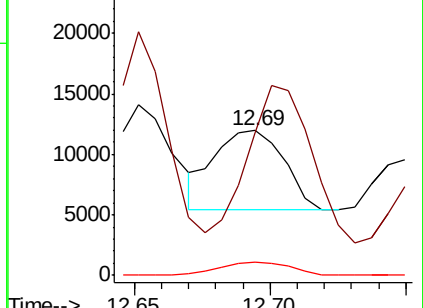
131 9.2 9.0 13.6



Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): VW



#63

1,3-Dichlorobenzene

Concen: 83.982 ug/L

RT: 13.50 min Scan# 1902

Delta R.T. -0.01 min

Lab File: VW016709.D

Acq: 30 Sep 2020 13:17

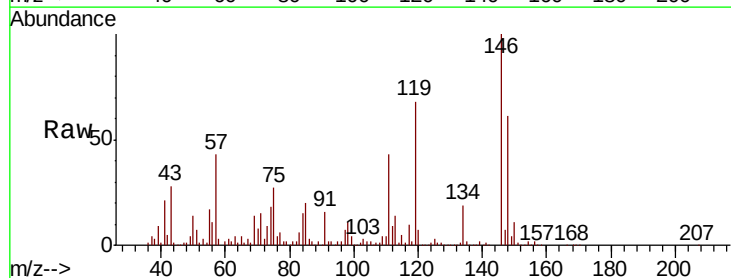
Tgt Ion: 146 Resp: 1097730

Ion Ratio Lower Upper

146 100

111 42.9 25.0 46.4

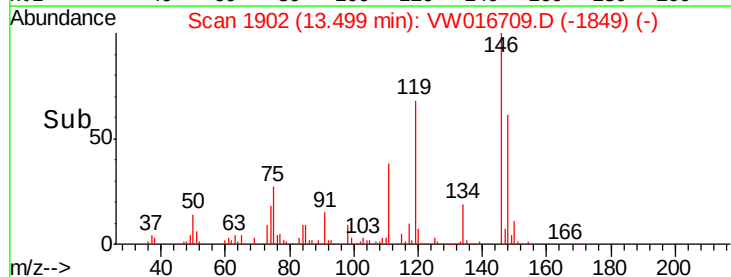
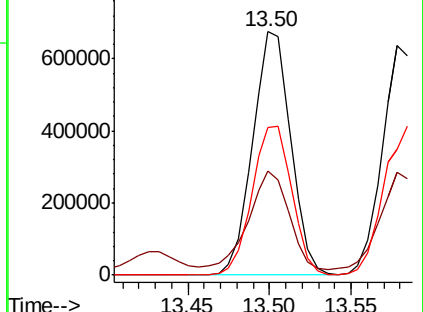
148 60.8 44.0 81.8

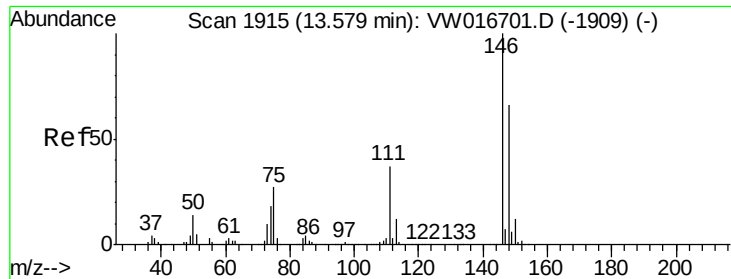


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#64

1,4-Dichlorobenzene

Concen: 81.324 ug/L

RT: 13.58 min Scan# 1915

Delta R.T. -0.00 min

Lab File: VW016709.D

Acq: 30 Sep 2020 13:17

Instrument :

MSVOA_W

ClientSampled :

BG3Y5

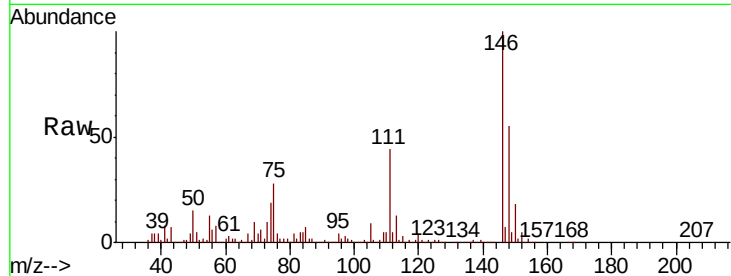
Tot Ion:146 Resp: 1040998

Ion Ratio Lower Upper

146 100

111 44.5 25.1 46.5

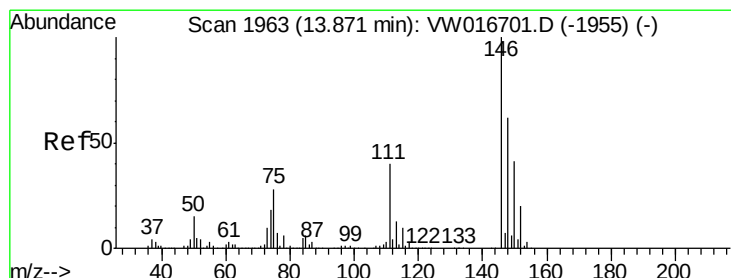
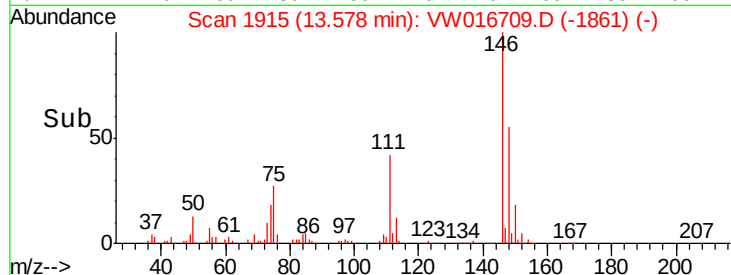
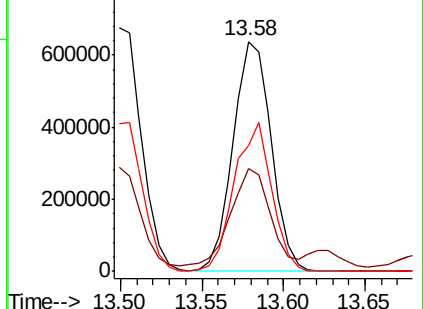
148 54.8 42.3 78.5



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



#65

1,2-Dichlorobenzene

Concen: 4.512 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. -0.00 min

Lab File: VW016709.D

Acq: 30 Sep 2020 13:17

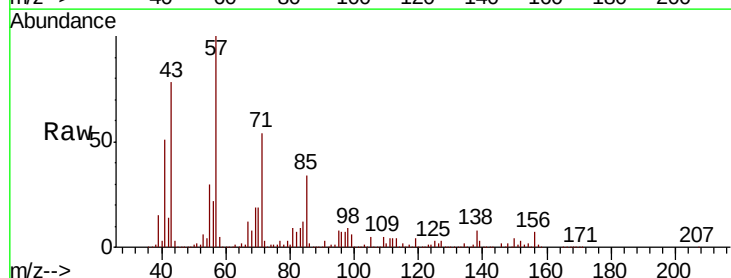
Tgt Ion:146 Resp: 52699

Ion Ratio Lower Upper

146 100

111 165.5 31.4 47.0#

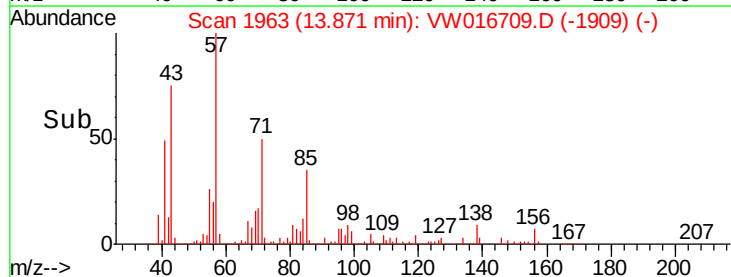
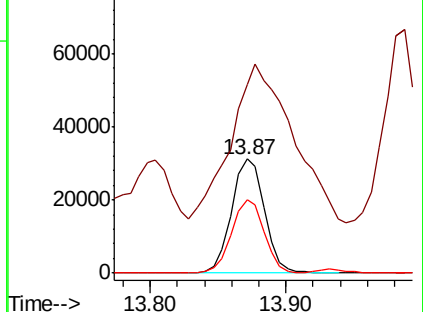
148 64.9 49.3 73.9

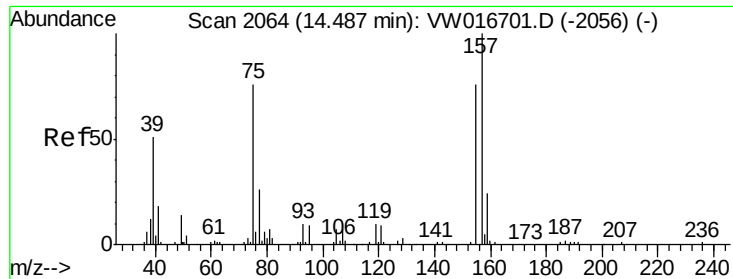


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

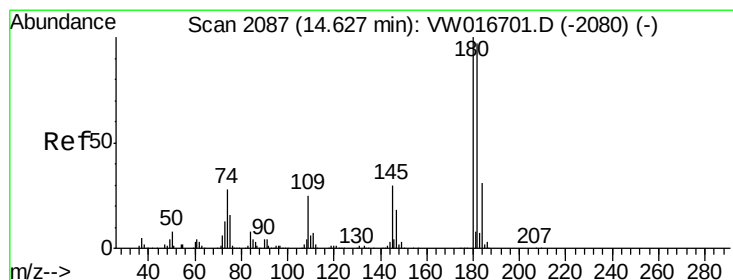
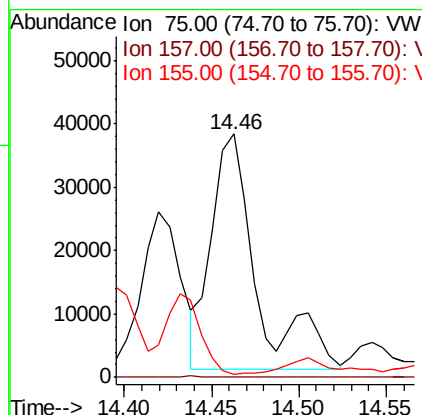
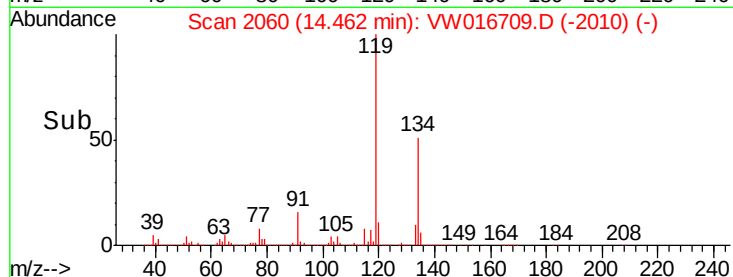
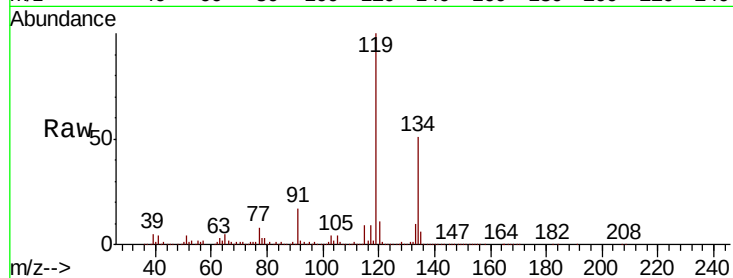




#66
 1,2-Dibromo-3-chloropropane
 Concen: 80.293 ug/L
 RT: 14.46 min Scan# 2060
 Delta R.T. -0.02 min
 Lab File: VW016709.D
 Acq: 30 Sep 2020 13:17

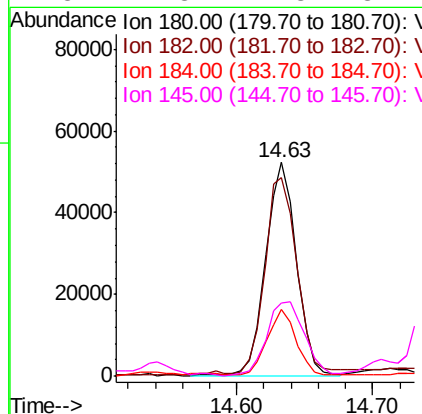
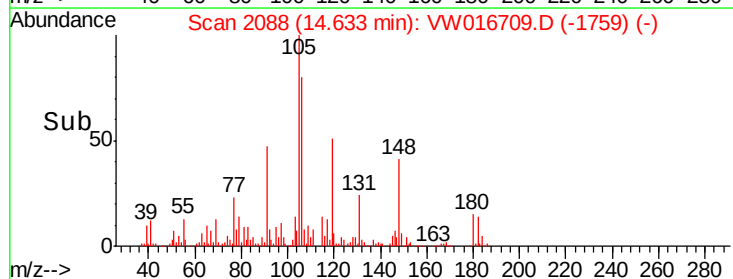
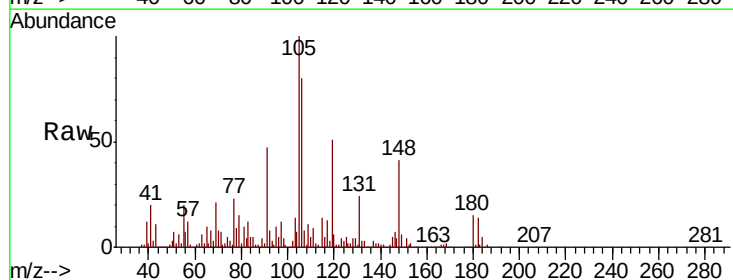
Instrument :
 MSVOA_W
 ClientSampled :
 BG3Y5

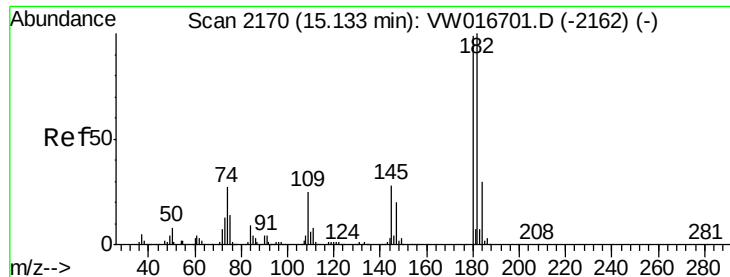
Tot Ion: 75 Resp: 67220
 Ion Ratio Lower Upper
 75 100
 157 0.0 92.2 138.4#
 155 1.2 73.5 110.3#



#67
 1,3,5-Trichlorobenzene
 Concen: 8.640 ug/L
 RT: 14.63 min Scan# 2088
 Delta R.T. 0.01 min
 Lab File: VW016709.D
 Acq: 30 Sep 2020 13:17

Tgt Ion: 180 Resp: 82590
 Ion Ratio Lower Upper
 180 100
 182 95.4 73.8 110.8
 184 28.6 23.7 35.5
 145 42.3 22.8 34.2#

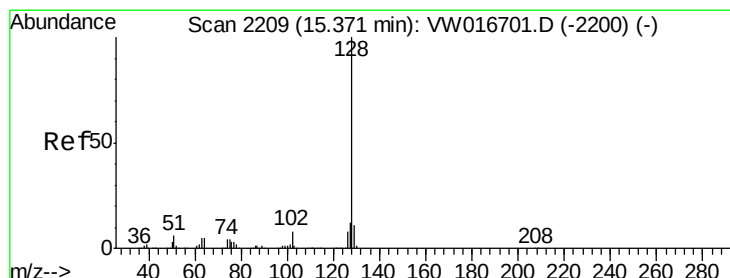
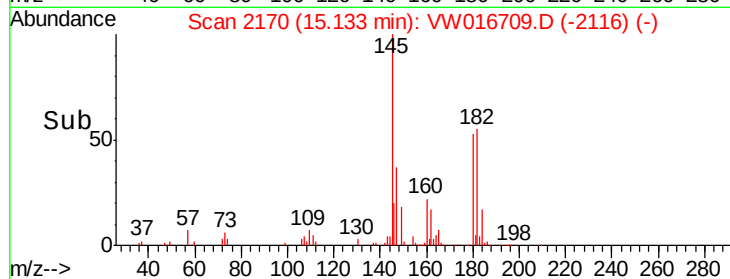
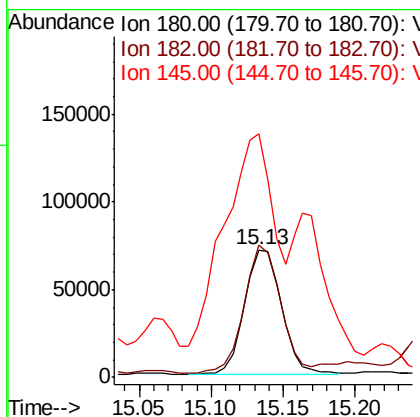
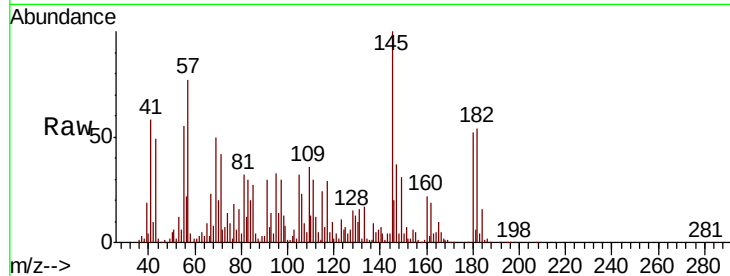




#68
 1,2,4-trichlorobenzene
 Concen: 16.667 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. -0.00 min
 Lab File: VW016709.D
 Acq: 30 Sep 2020 13:17

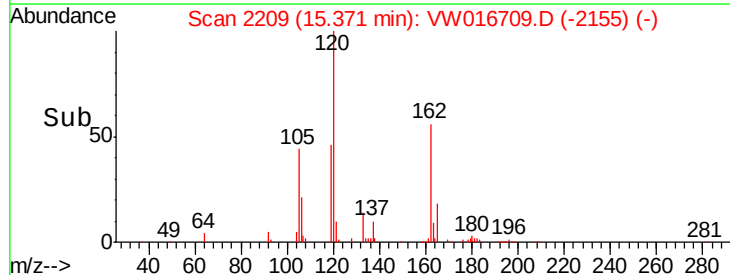
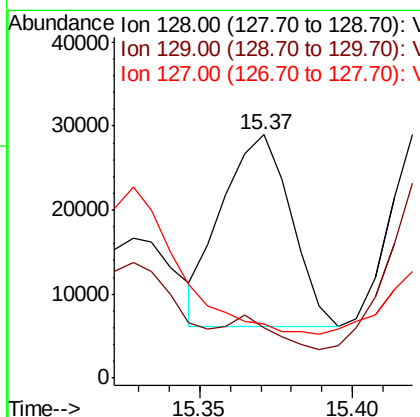
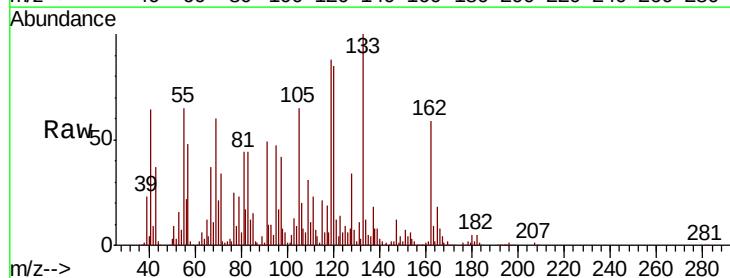
Instrument :
 MSVOA_W
 ClientSampleId :
 BG3Y5

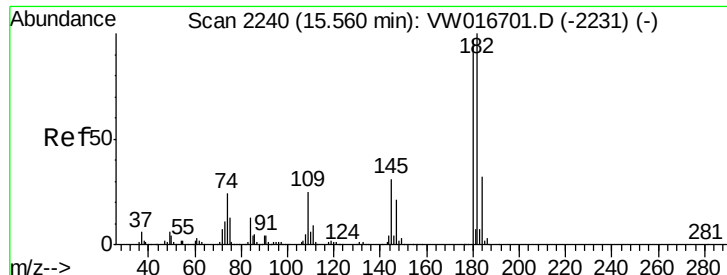
Tot Ion:180 Resp: 128888
 Ion Ratio Lower Upper
 180 100
 182 99.5 74.5 111.7
 145 263.4 23.1 34.7#



#69
 Naphthalene
 Concen: 2.619 ug/L
 RT: 15.37 min Scan# 2209
 Delta R.T. -0.00 min
 Lab File: VW016709.D
 Acq: 30 Sep 2020 13:17

Tgt Ion:128 Resp: 35902
 Ion Ratio Lower Upper
 128 100
 129 11.8 8.9 13.3
 127 0.0 10.8 16.2#





#70
 1,2,3-Trichlorobenzene
 Concen: 3.020 ug/L
 RT: 15.57 min Scan# 2241
 Delta R.T. 0.01 min
 Lab File: VW016709.D
 Acq: 30 Sep 2020 13:17

Instrument :
 MSVOA_W
 ClientSampleId :
 BG3Y5

Tot Ion	Ratio	Lower	Upper
180	100		
182	86.3	76.3	114.5
145	895.5	24.1	36.1

