

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW011521\
 Data File : VW017909.D
 Acq On : 15 Jan 2021 19:43
 Operator : SY/VA
 Sample : M1099-20
 Misc : 6.70G/10ML/MSVOA W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 F1C16

Quant Time: Jan 18 02:10:39 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122420S.M
 Quant Title : VOC Analysis
 QLast Update : Mon Jan 18 02:07:49 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	260525	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	175750	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.55	152	49408	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	98545	24.45	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	97.80%
7) Chloroethane-d5	2.89	69	82515	24.80	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	99.20%
10) 1,1-Dichloroethene-d2	4.02	63	118169	16.83	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	67.32%
20) 2-Butanone-d5	7.07	46	53603	82.05	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	164.10%#
24) Chloroform-d	7.65	84	169092	24.84	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	99.36%
26) 1,2-Dichloroethane-d4	8.31	65	106945	30.35	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	121.40%
29) Benzene-d6	8.27	84	311177	31.43	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	125.72%
33) 1,2-Dichloropropane-d6	9.27	67	97313	35.66	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	142.64%#
37) Toluene-d8	10.32	98	236465	24.87	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	99.48%
38) trans-1,3-Dichloropropene-	10.58	79	27140	22.31	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	89.24%
39) 2-Hexanone-d5	10.93	63	36959	107.85	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	215.70%#
48) 1,1,2,2-Tetrachloroethane-	12.69	84	71225	35.16	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	140.64%#
61) 1,2-Dichlorobenzene-d4	13.85	152	40924	23.79	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	95.16%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
13) Acetone	4.12	43	79916	141.653	ug/L	89
14) Carbon disulfide	4.39	76	24170	2.521	ug/L	100
16) Methylene chloride	4.92	84	9987	2.681	ug/L	89
21) 2-Butanone	7.18	43	25765	33.952	ug/L	94
30) Cyclohexane	7.94	56	1203	0.288	ug/L #	21
34) Benzene	8.32	78	10290	1.024	ug/L	100
36) Methylcyclohexane	9.34	83	6889	1.417	ug/L #	73
42) cis-1,3-Dichloropropene	10.03	75	2694	0.712	ug/L	88
44) Toluene	10.39	91	14585	1.273	ug/L	98
45) trans-1,3-Dichloropropene	10.59	75	1484	0.460	ug/L #	53
46) 1,1,2-Trichloroethane	10.76	97	4605	2.612	ug/L #	59
49) 2-Hexanone	10.98	43	814	0.995	ug/L #	37
52) Chlorobenzene	11.66	112	436986	61.090	ug/L	93
53) Ethylbenzene	11.73	91	8517	0.655	ug/L	95
54) m,p-Xylene	11.84	106	7159	1.408	ug/L	95
55) o-xylene	12.16	106	2934	0.613	ug/L	93
57) Isopropylbenzene	12.46	105	115996	8.760	ug/L	98

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Quant Title : VOC Analysis
QLast Update : Mon Jan 18 02:07:49 2021
Response via : Initial Calibration

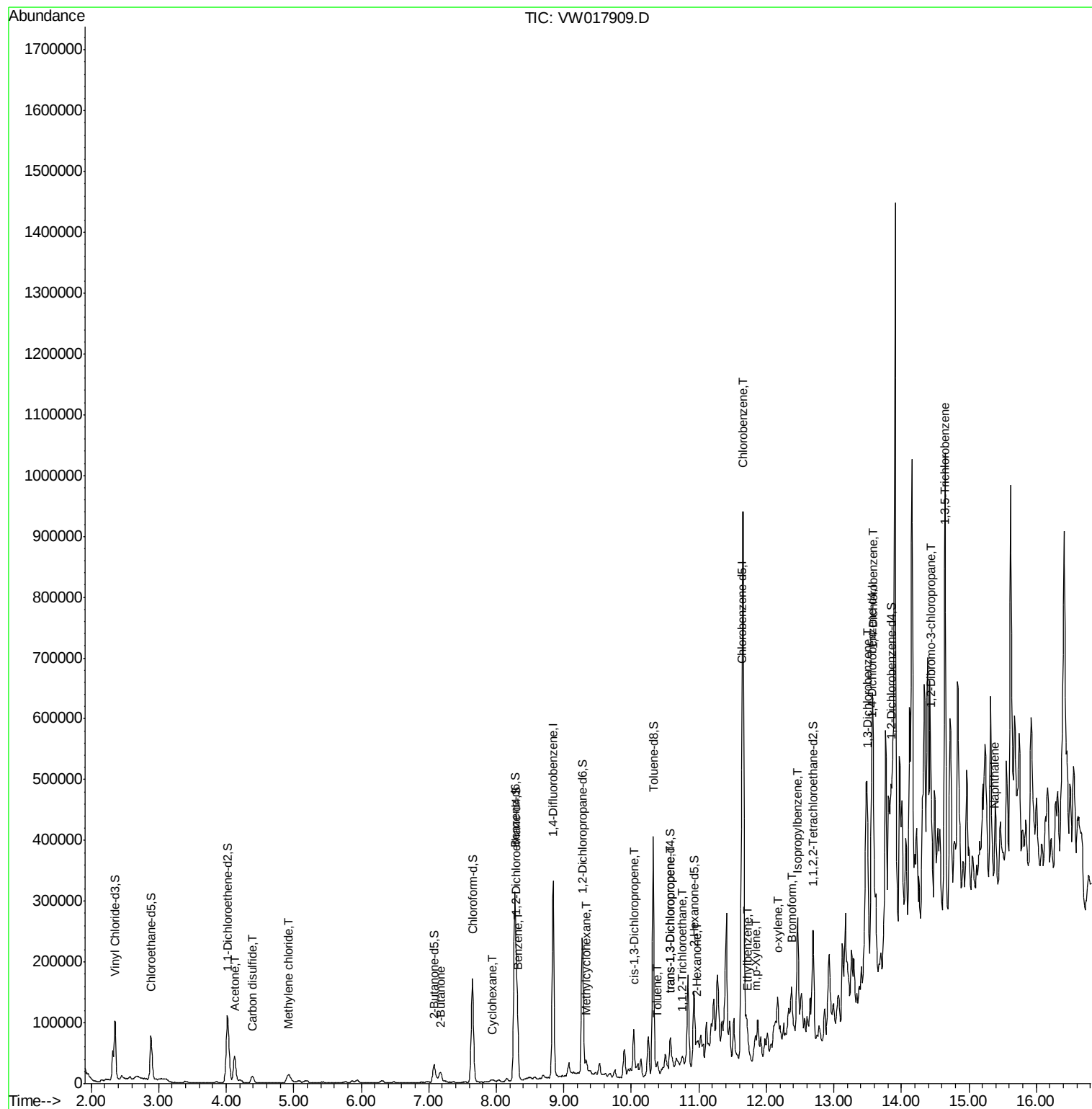
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
62) Bromoform	12.37	173	288	0.476	ug/L #	65
63) 1,3-Dichlorobenzene	13.50	146	65596	21.510	ug/L	90
64) 1,4-Dichlorobenzene	13.58	146	141439	46.153	ug/L	94
66) 1,2-Dibromo-3-chloropropan	14.44	75	5729	32.461	ug/L #	7
67) 1,3,5-Trichlorobenzene	14.63	180	670	0.320	ug/L #	44
69) Naphthalene	15.37	128	848	0.259	ug/L #	74

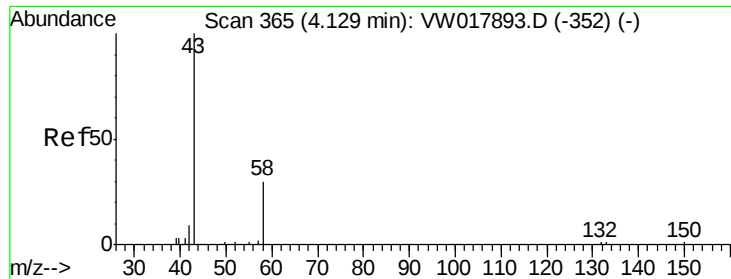
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#13

Acetone

Concen: 141.653 ug/L

RT: 4.12 min Scan# 364

Delta R.T. -0.01 min

Lab File: VW017909.D

Acq: 15 Jan 2021 19:43

Instrument :

MSVOA_W

ClientSampleId :

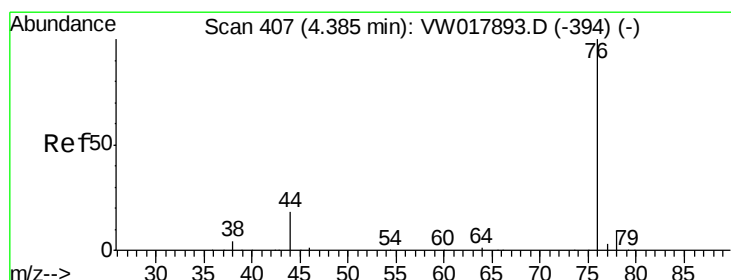
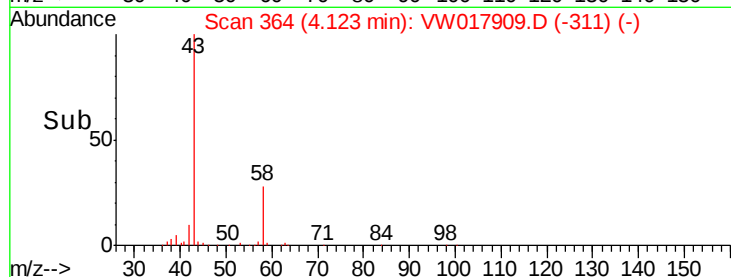
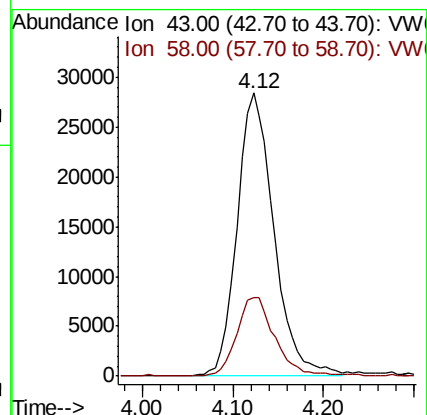
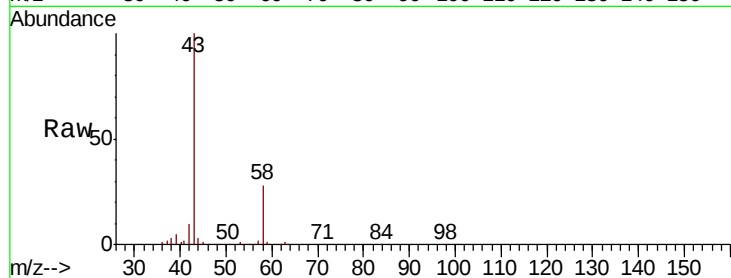
F1C16

Tot Ion: 43 Resp: 79916

Ion Ratio Lower Upper

43 100

58 28.1 0.0 68.4



#14

Carbon disulfide

Concen: 2.521 ug/L

RT: 4.39 min Scan# 408

Delta R.T. 0.01 min

Lab File: VW017909.D

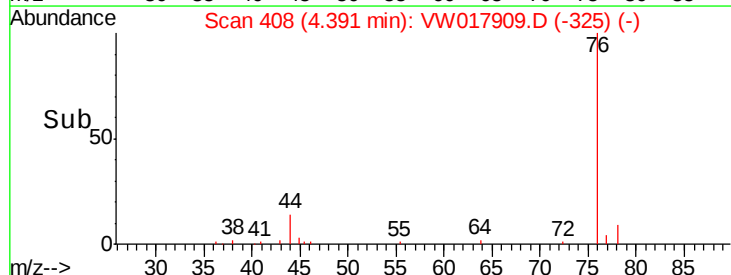
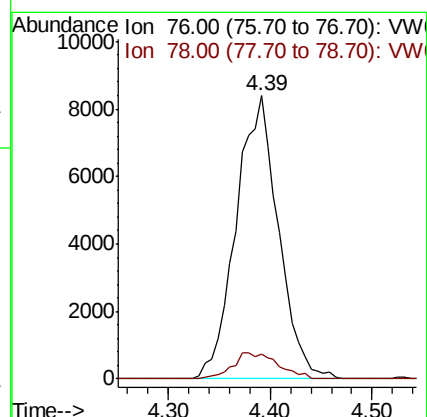
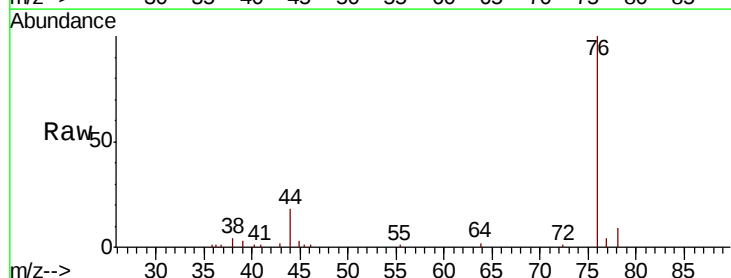
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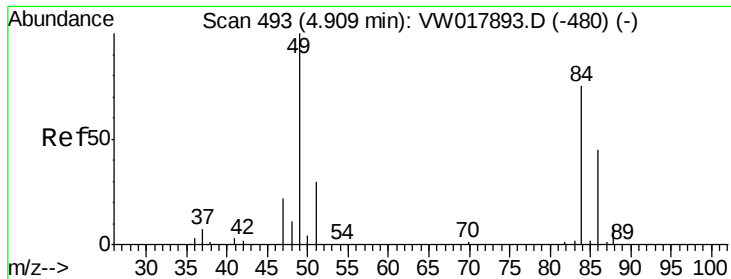
Tgt Ion: 76 Resp: 24170

Ion Ratio Lower Upper

76 100

78 8.7 7.0 10.4

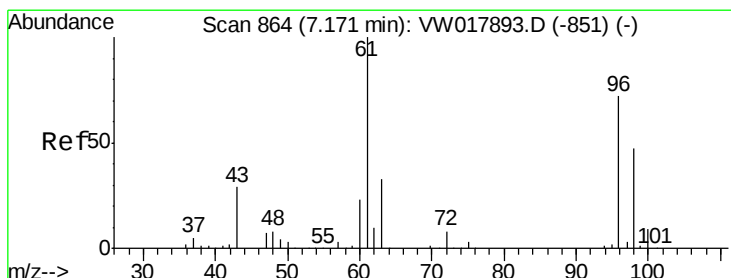
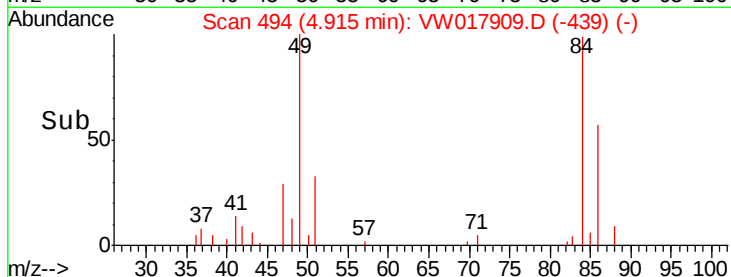
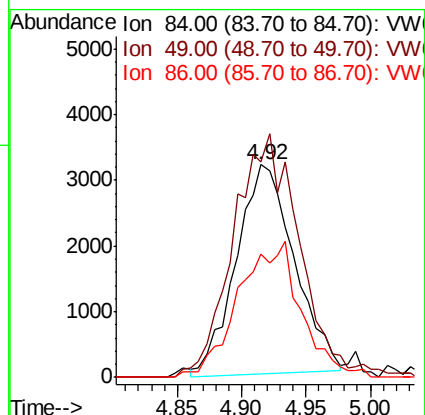
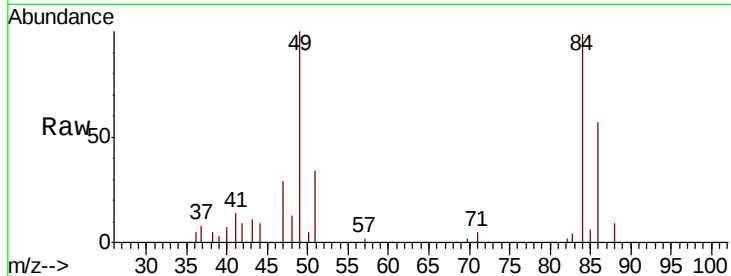




#16
Methvlene chloride
Concen: 2.681 ug/L
RT: 4.92 min Scan# 494
Delta R.T. 0.01 min
Lab File: VW017909.D
Acq: 15 Jan 2021 19:43

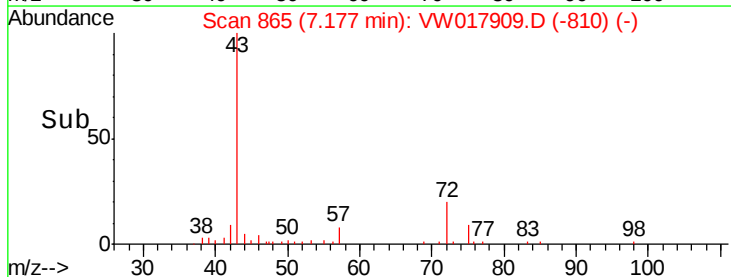
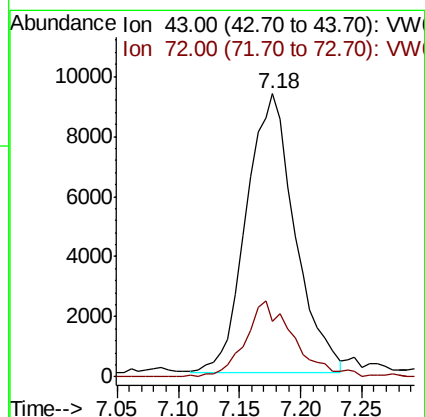
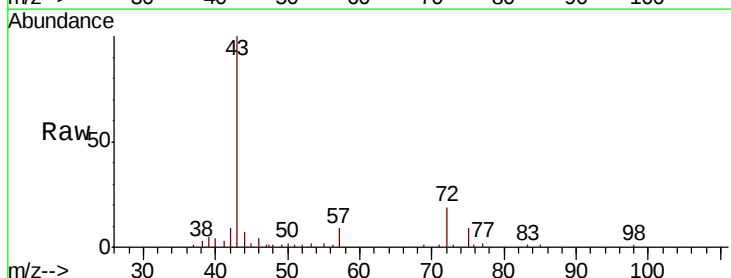
Instrument :
MSVOA_W
ClientSampled :
F1C16

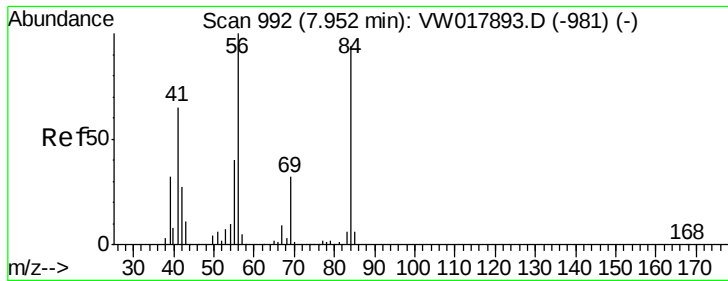
Tot Ion: 84 Resp: 9987
Ion Ratio Lower Upper
84 100
49 101.1 81.2 150.8
86 57.9 44.5 82.7



#21
2-Butanone
Concen: 33.952 ug/L
RT: 7.18 min Scan# 865
Delta R.T. 0.01 min
Lab File: VW017909.D
Acq: 15 Jan 2021 19:43

Tgt Ion: 43 Resp: 25765
Ion Ratio Lower Upper
43 100
72 25.9 14.4 43.2

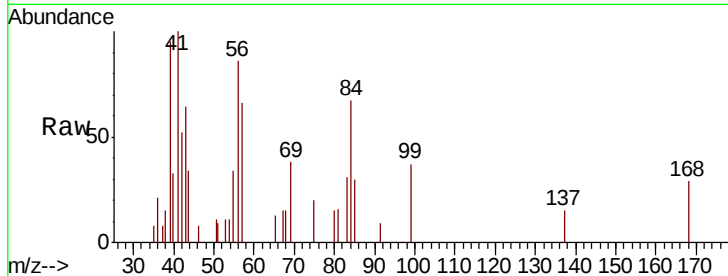




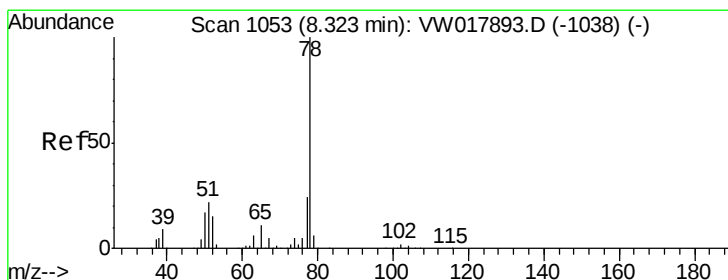
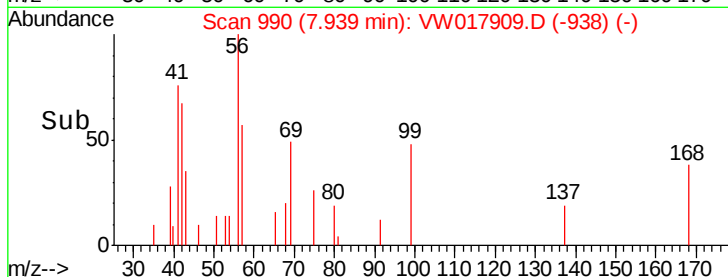
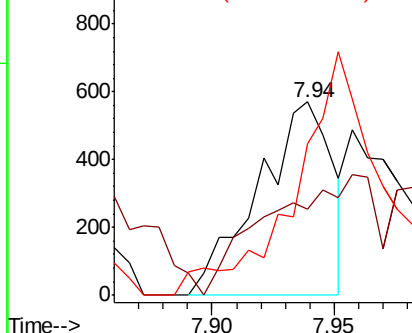
#30
Cyclohexane
Concen: 0.288 ug/L
RT: 7.94 min Scan# 990
Delta R.T. -0.01 min
Lab File: VW017909.D
Acq: 15 Jan 2021 19:43

Instrument :
MSVOA_W
ClientSampleId :
F1C16

Tot Ion: 56 Resp: 1203
Ion Ratio Lower Upper
56 100
69 44.3 24.8 37.2#
84 0.0 74.2 111.4#

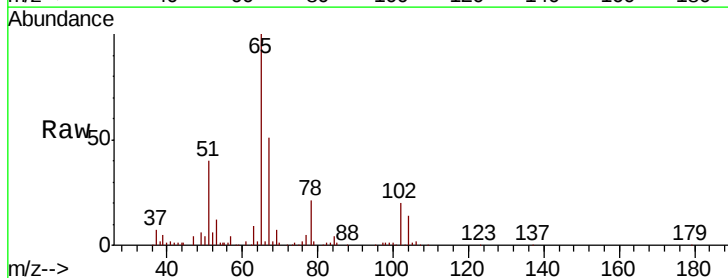


Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW

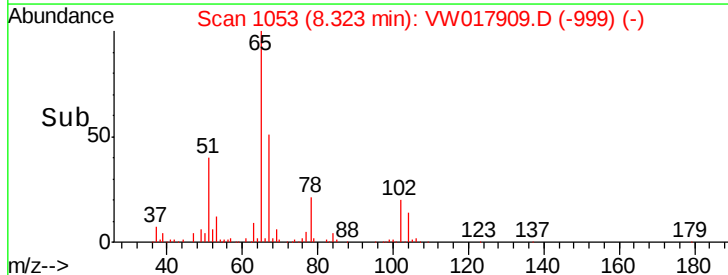
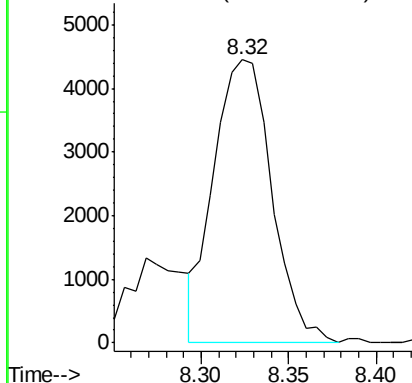


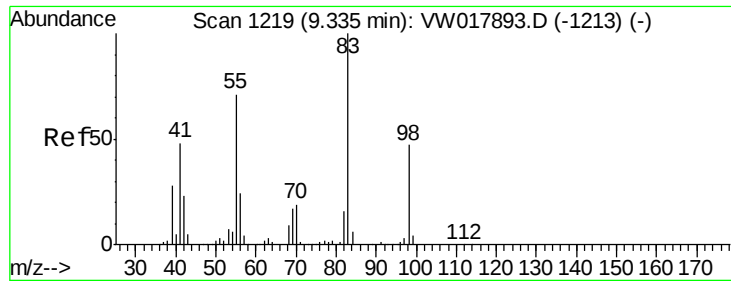
#34
Benzene
Concen: 1.024 ug/L
RT: 8.32 min Scan# 1053
Delta R.T. -0.00 min
Lab File: VW017909.D
Acq: 15 Jan 2021 19:43

Tgt Ion: 78 Resp: 10290



Abundance Ion 78.00 (77.70 to 78.70): VW

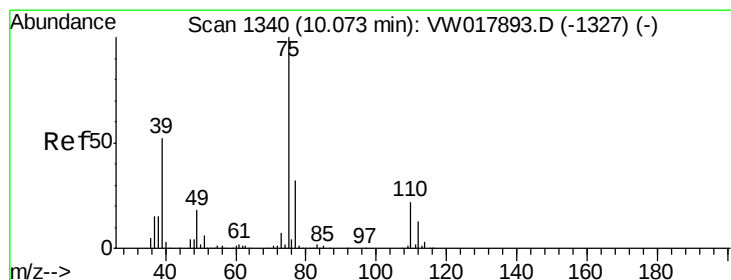
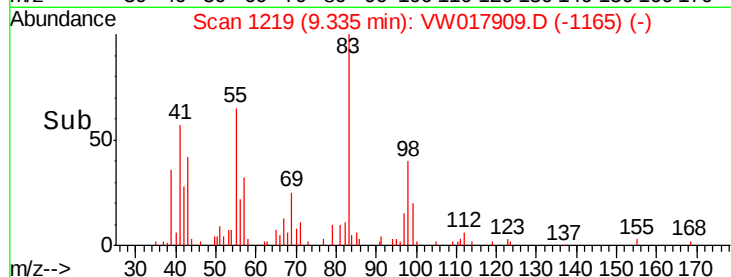
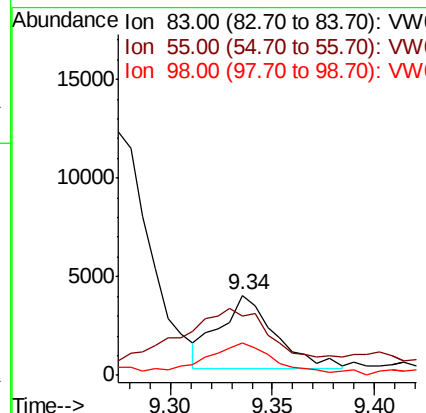
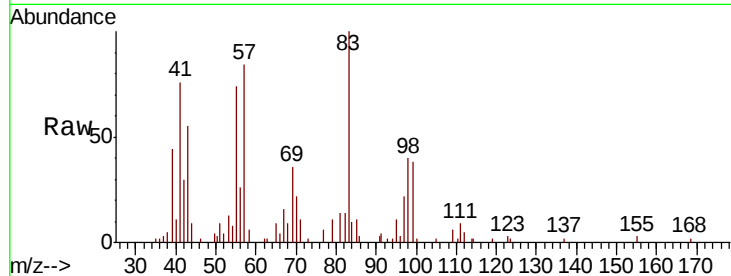




#36
Methvlcvclohexane
Concen: 1.417 ug/L
RT: 9.34 min Scan# 1219
Delta R.T. -0.00 min
Lab File: VW017909.D
Acq: 15 Jan 2021 19:43

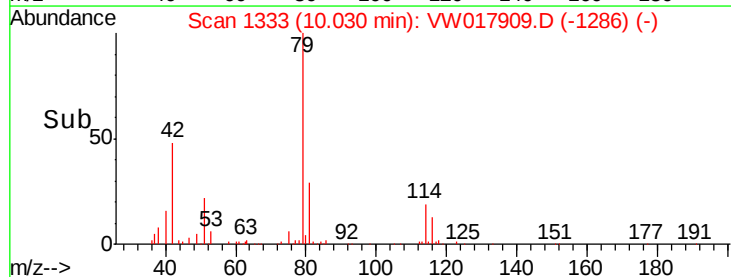
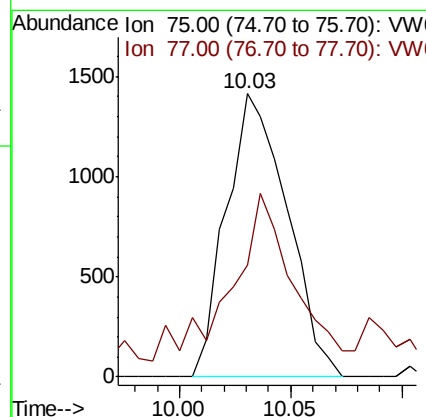
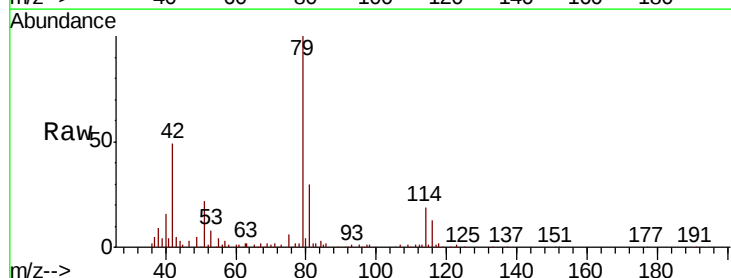
Instrument :
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ClientSampleId :
F1C16

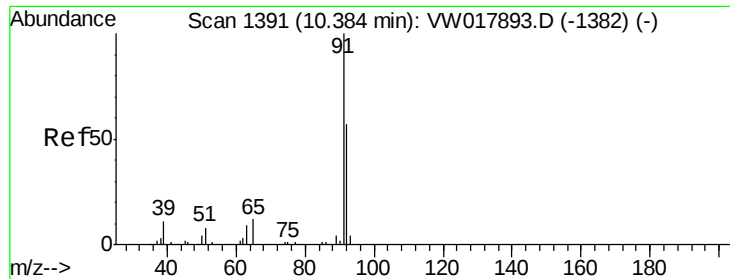
Tot Ion: 83 Resp: 6889
Ion Ratio Lower Upper
83 100
55 110.7 59.4 89.0#
98 48.0 40.7 61.1



#42
cis-1,3-Dichloropropene
Concen: 0.712 ug/L
RT: 10.03 min Scan# 1333
Delta R.T. -0.04 min
Lab File: VW017909.D
Acq: 15 Jan 2021 19:43

Tgt Ion: 75 Resp: 2694
Ion Ratio Lower Upper
75 100
77 39.5 22.7 42.3





#44

Toluene

Concen: 1.273 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. 0.01 min

Lab File: VW017909.D

Acq: 15 Jan 2021 19:43

Instrument :

MSVOA_W

ClientSampleId :

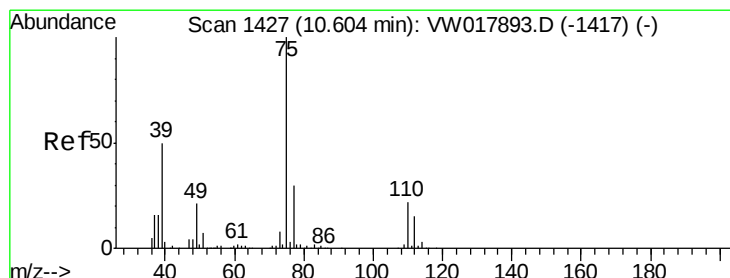
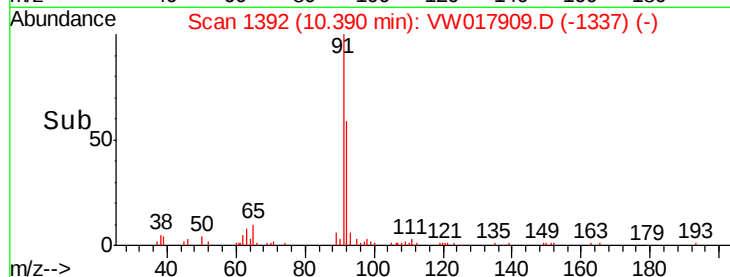
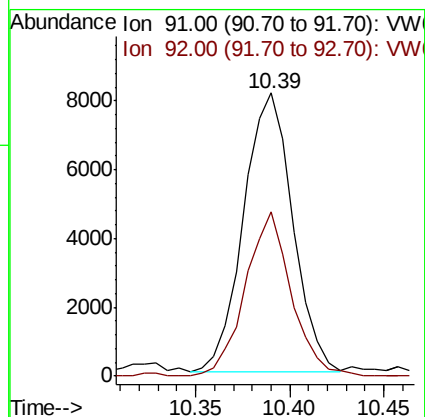
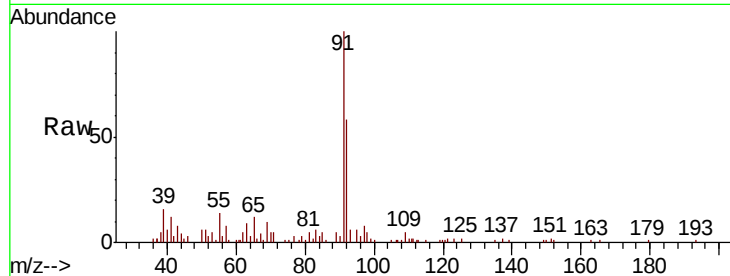
F1C16

Tot Ion: 91 Resp: 14585

Ion Ratio Lower Upper

91 100

92 58.1 41.6 77.3



#45

trans-1,3-Dichloropropene

Concen: 0.460 ug/L

RT: 10.59 min Scan# 1424

Delta R.T. -0.02 min

Lab File: VW017909.D

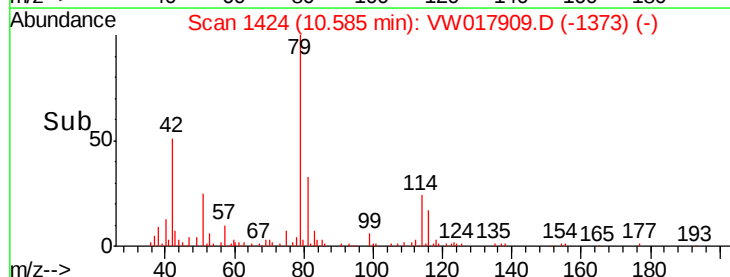
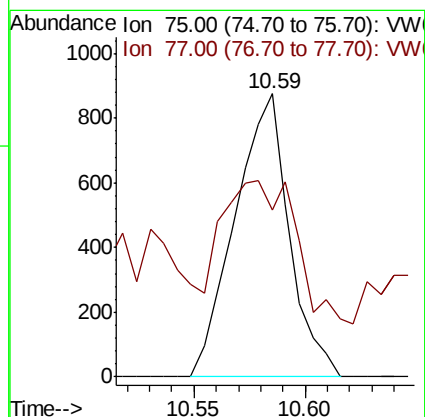
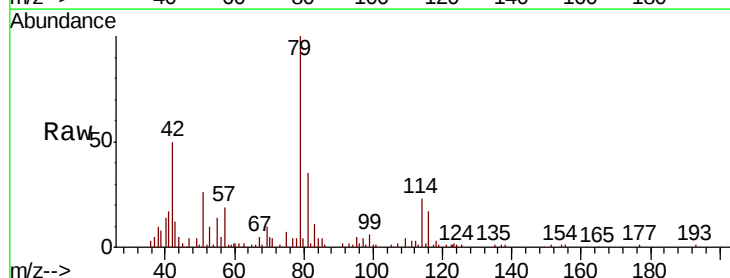
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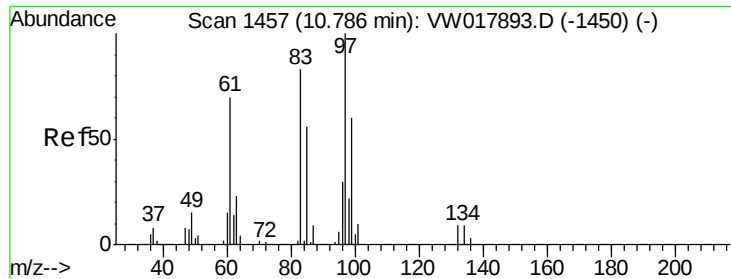
Tgt Ion: 75 Resp: 1484

Ion Ratio Lower Upper

75 100

77 58.9 22.6 42.0#

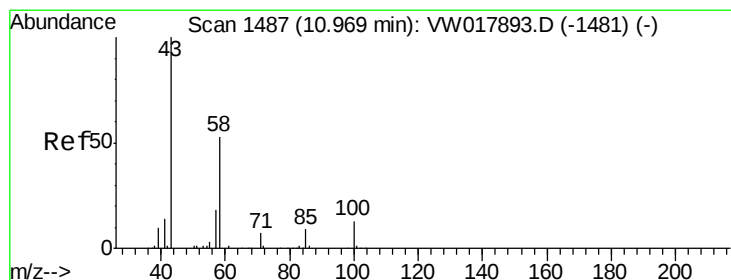
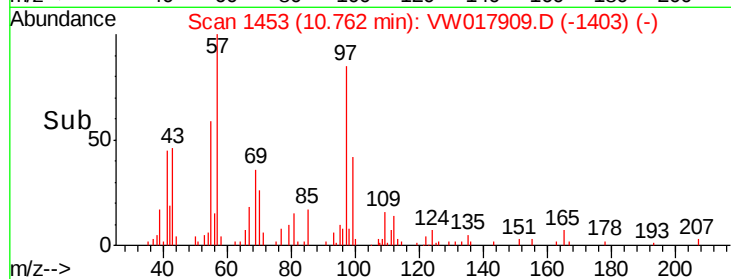
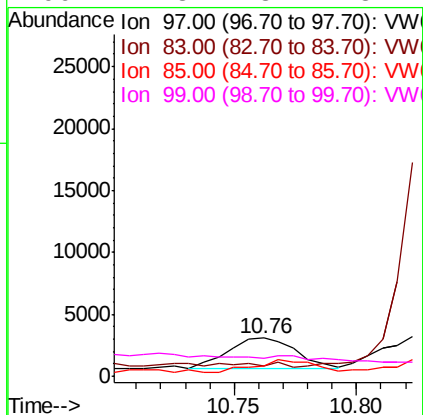
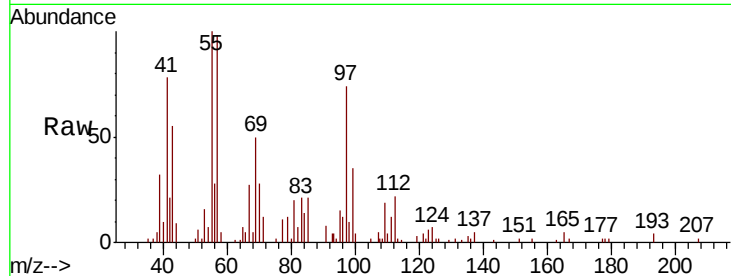




#46
 1,1,2-Trichloroethane
 Concen: 2.612 ug/L
 RT: 10.76 min Scan# 1453
 Delta R.T. -0.02 min
 Lab File: VW017909.D
 Acq: 15 Jan 2021 19:43

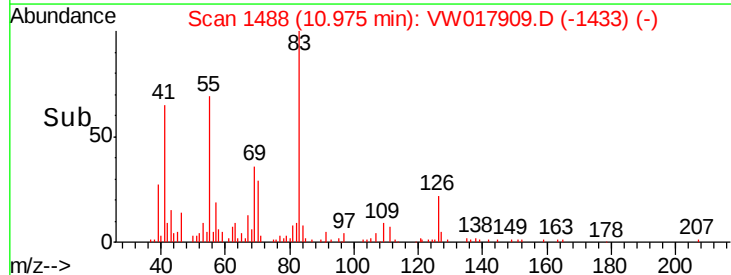
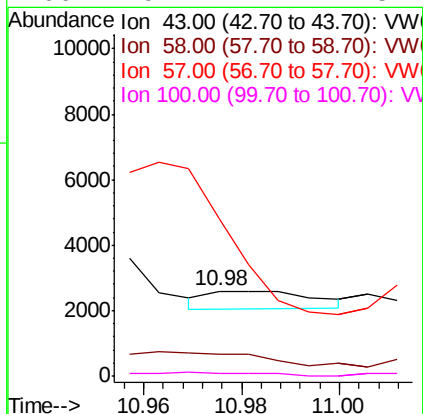
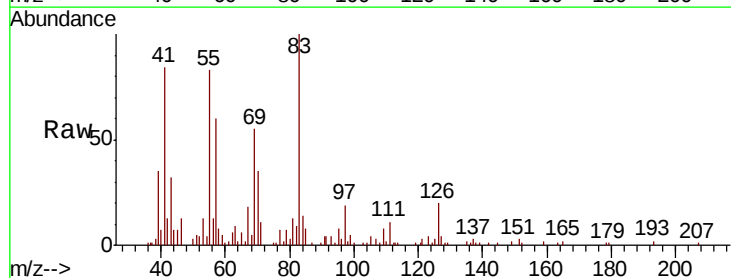
Instrument :
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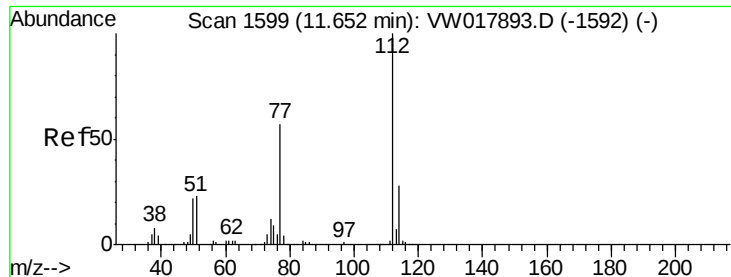
Tot Ion: 97 Resp: 4605
 Ion Ratio Lower Upper
 97 100
 83 28.2 58.5 108.7#
 85 28.3 37.8 70.2#
 99 47.3 43.7 81.1



#49
 2-Hexanone
 Concen: 0.995 ug/L
 RT: 10.98 min Scan# 1488
 Delta R.T. 0.01 min
 Lab File: VW017909.D
 Acq: 15 Jan 2021 19:43

Tgt Ion: 43 Resp: 814
 Ion Ratio Lower Upper
 43 100
 58 0.0 51.3 76.9#
 57 0.0 15.0 22.6#
 100 19.4 12.2 18.2#

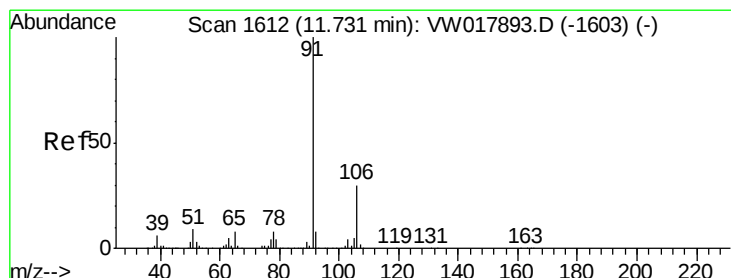
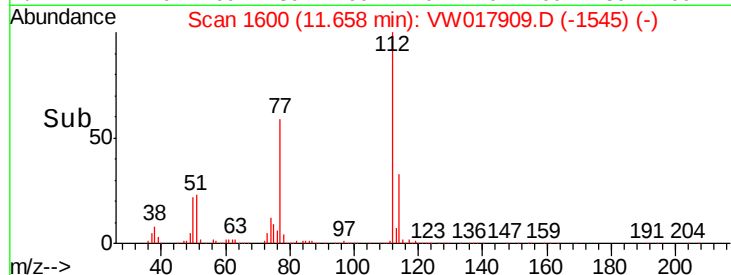
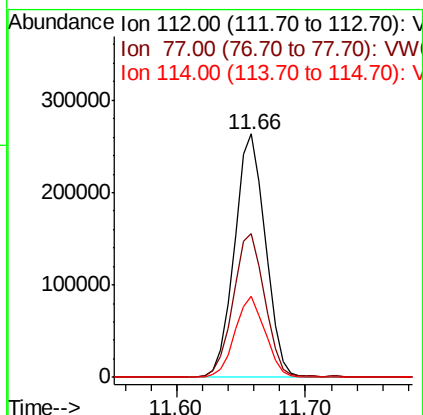
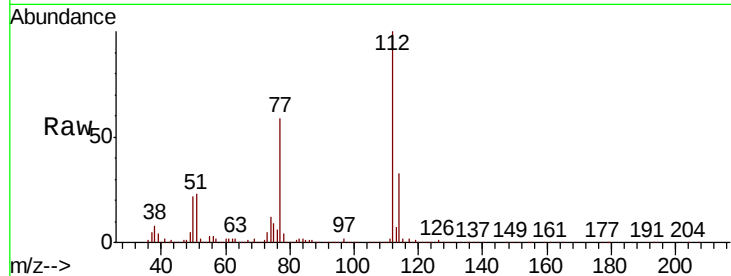




#52
Chlorobenzene
Concen: 61.090 ug/L
RT: 11.66 min Scan# 1600
Delta R.T. 0.01 min
Lab File: VW017909.D
Acq: 15 Jan 2021 19:43

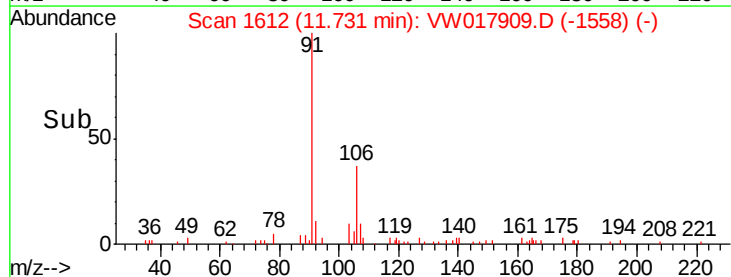
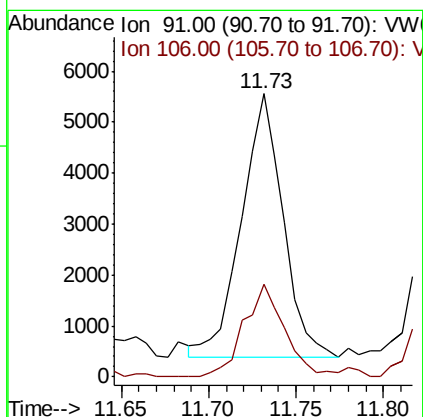
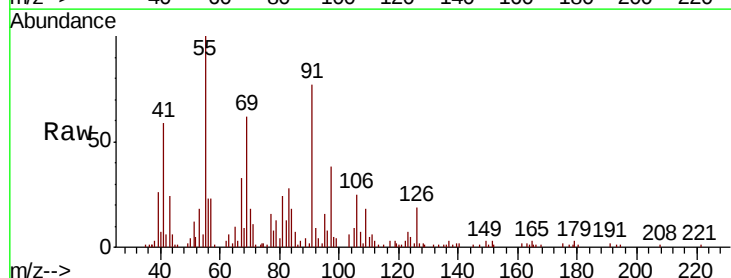
Instrument :
MSVOA_W
ClientSampleId :
F1C16

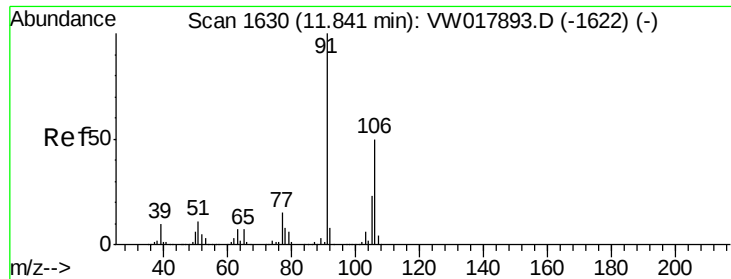
Tot Ion:112 Resp: 436986
Ion Ratio Lower Upper
112 100
77 58.9 42.6 64.0
114 33.3 21.6 40.2



#53
Ethylbenzene
Concen: 0.655 ug/L
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW017909.D
Acq: 15 Jan 2021 19:43

Tgt Ion: 91 Resp: 8517
Ion Ratio Lower Upper
91 100
106 32.6 21.1 39.1





#54

m,p-Xylene

Concen: 1.408 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VW017909.D

Acq: 15 Jan 2021 19:43

Instrument :

MSVOA_W

ClientSampled :

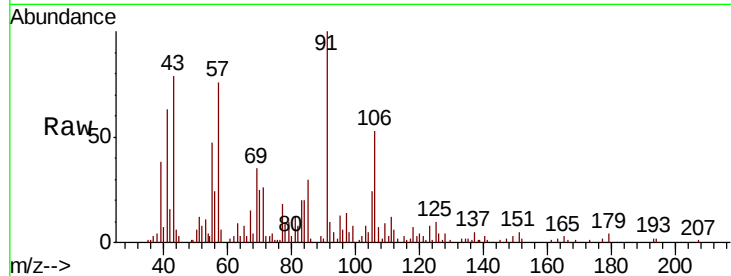
F1C16

Tot Ion:106 Resp: 7159

Ion Ratio Lower Upper

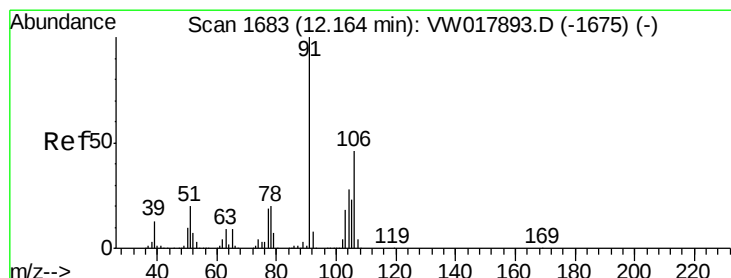
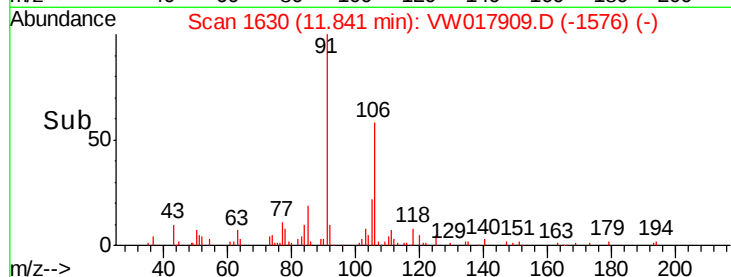
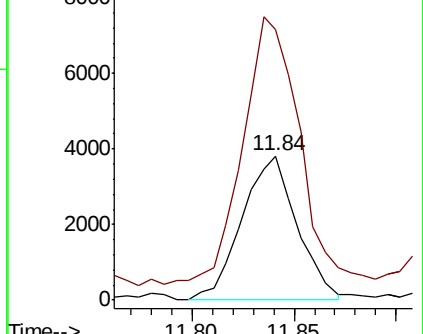
106 100

91 188.0 136.4 253.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#55

o-xylene

Concen: 0.613 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. -0.00 min

Lab File: VW017909.D

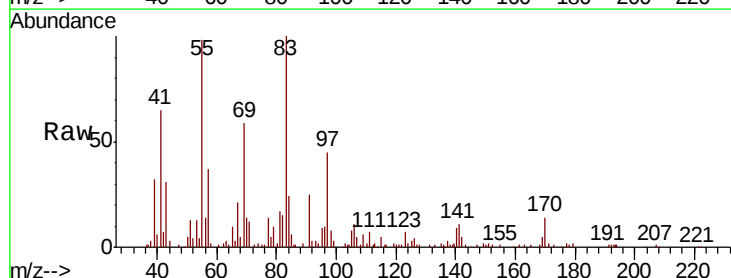
Acq: 15 Jan 2021 19:43

Tgt Ion:106 Resp: 2934

Ion Ratio Lower Upper

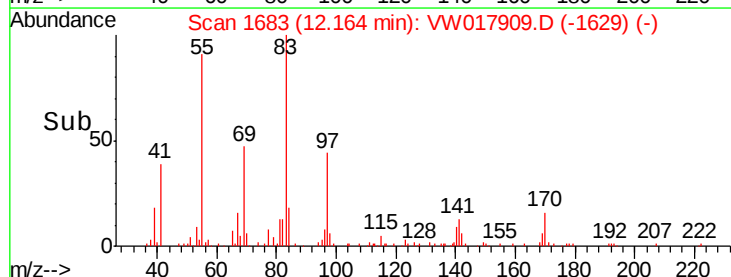
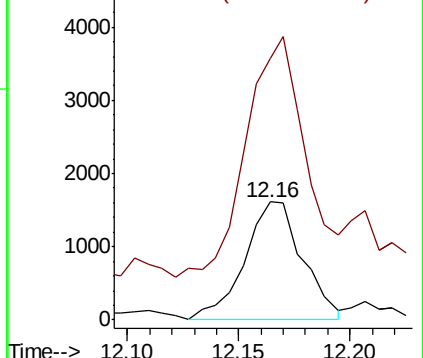
106 100

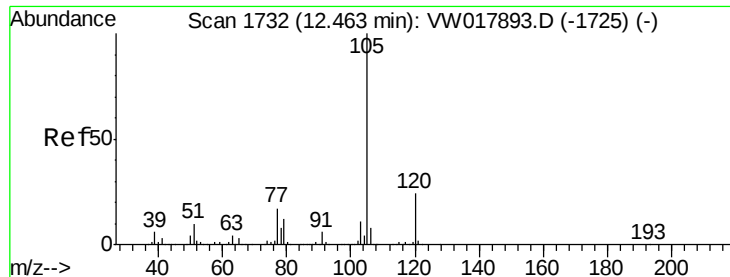
91 221.7 147.6 274.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





#57

Isopropylbenzene

Concen: 8.760 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW017909.D

Acq: 15 Jan 2021 19:43

Instrument :

MSVOA_W

ClientSampleId :

F1C16

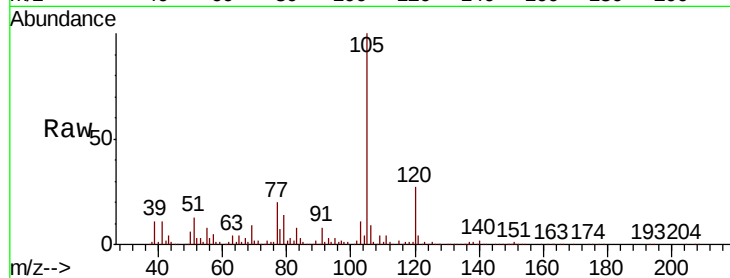
Tot Ion:105 Resp: 115996

Ion Ratio Lower Upper

105 100

120 26.7 21.4 32.2

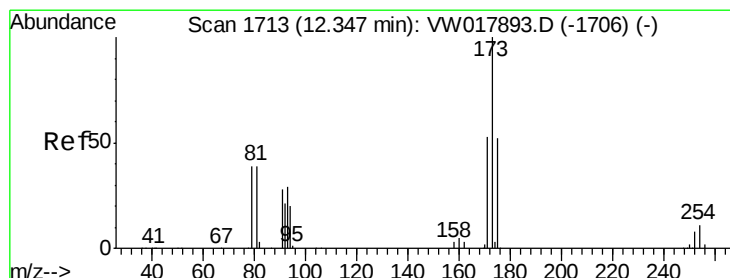
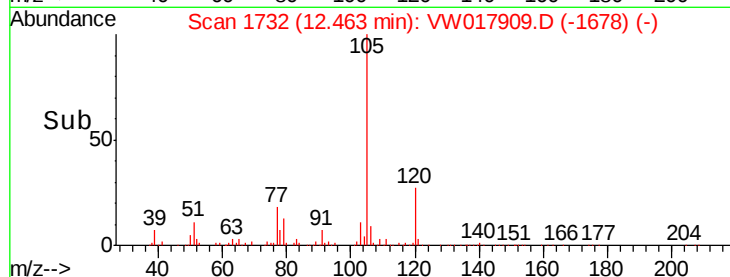
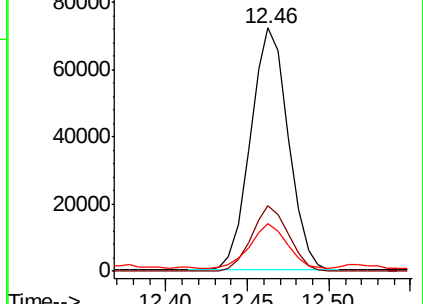
77 17.8 12.1 18.1



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



#62

Bromoform

Concen: 0.476 ug/L

RT: 12.37 min Scan# 1716

Delta R.T. 0.02 min

Lab File: VW017909.D

Acq: 15 Jan 2021 19:43

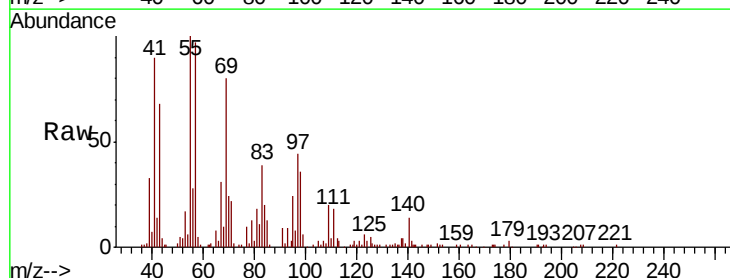
Tgt Ion:173 Resp: 288

Ion Ratio Lower Upper

173 100

175 23.6 39.1 58.7#

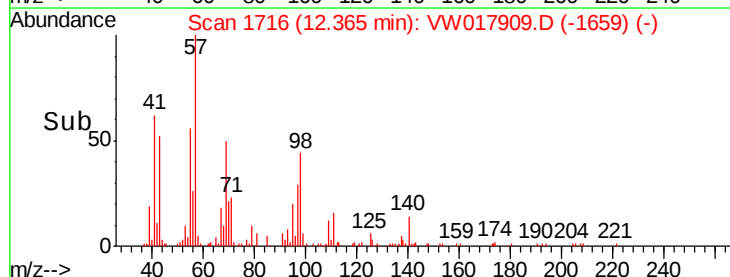
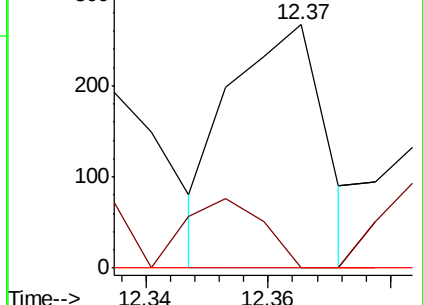
254 0.0 7.1 10.7#

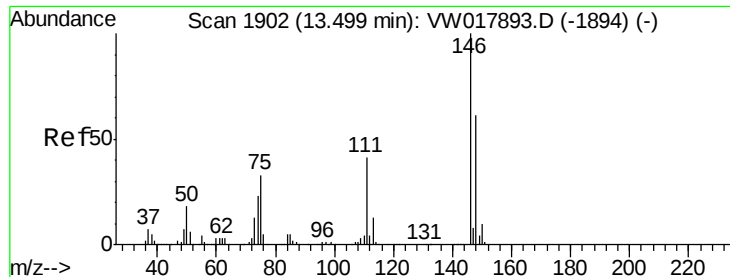


Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V





#63

1,3-Dichlorobenzene

Concen: 21.510 ug/L

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW017909.D

Acq: 15 Jan 2021 19:43

Instrument :

MSVOA_W

ClientSampled :

F1C16

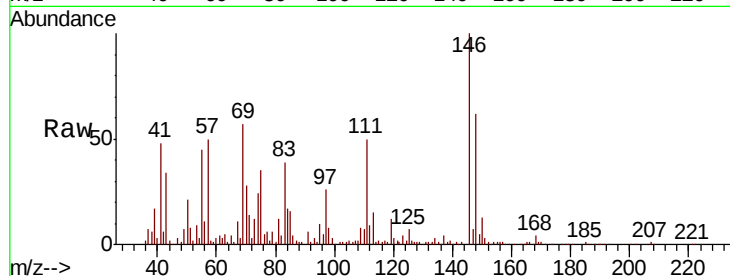
Tot Ion:146 Resp: 65596

Ion Ratio Lower Upper

146 100

111 49.8 28.5 52.9

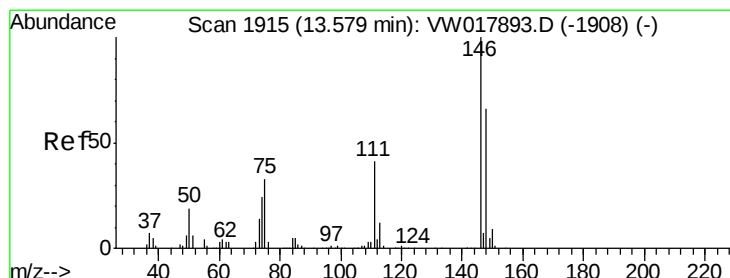
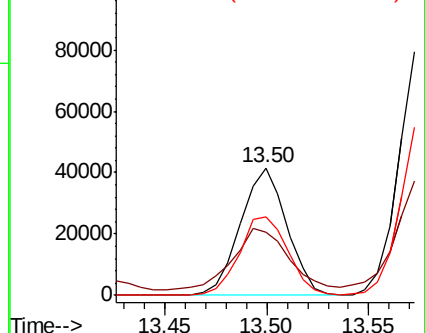
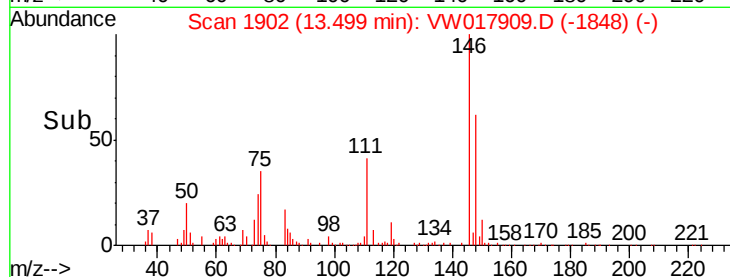
148 62.2 47.8 88.8



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: 46.153 ug/L

RT: 13.58 min Scan# 1915

Delta R.T. -0.00 min

Lab File: VW017909.D

Acq: 15 Jan 2021 19:43

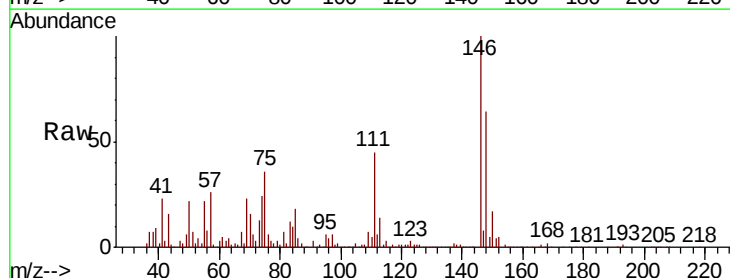
Tgt Ion:146 Resp: 141439

Ion Ratio Lower Upper

146 100

111 45.1 27.7 51.5

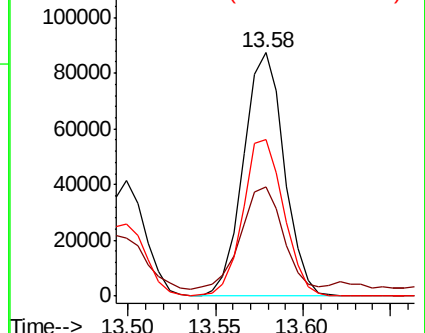
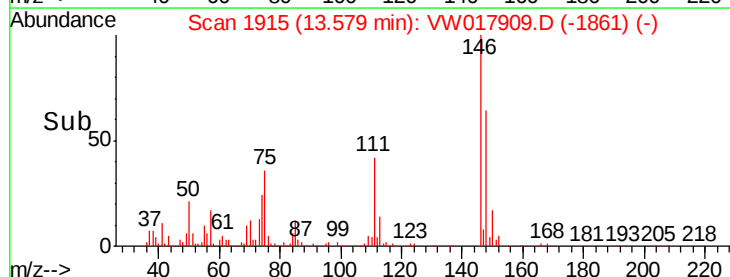
148 64.1 47.0 87.2

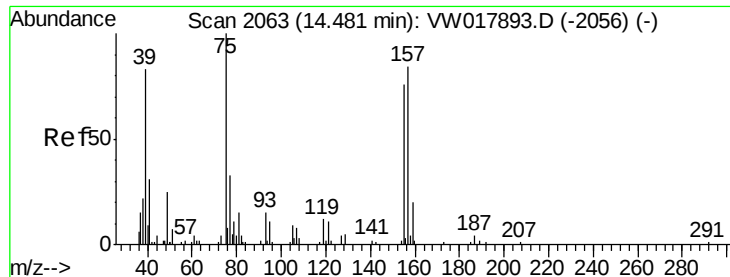


Abundance Ion 146.00 (145.70 to 146.70): V

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: 32.461 ug/L

RT: 14.44 min Scan# 2057

Delta R.T. -0.04 min

Lab File: VW017909.D

Acq: 15 Jan 2021 19:43

Instrument :

MSVOA_W

ClientSampleId :

F1C16

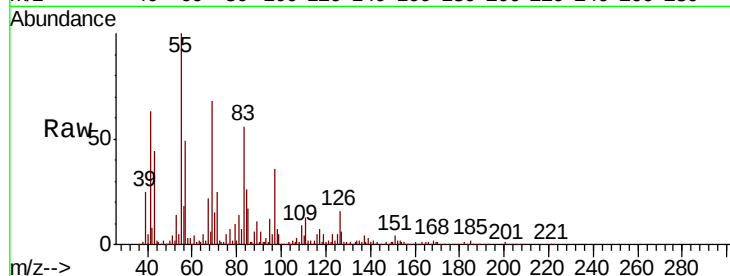
Tot Ion: 75 Resp: 5729

Ion Ratio Lower Upper

75 100

157 7.6 99.9 149.9#

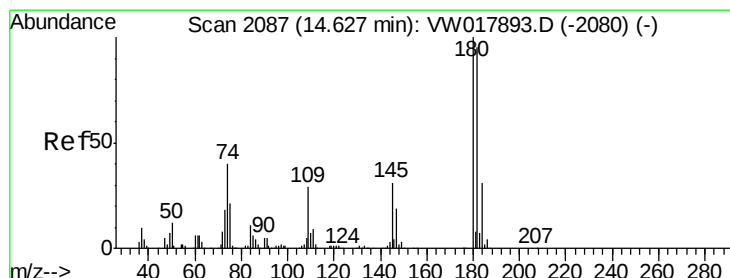
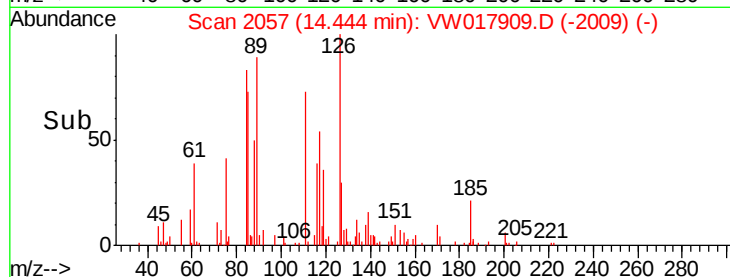
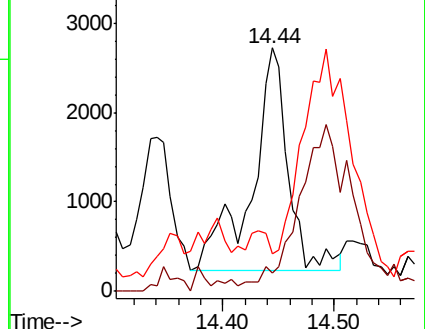
155 15.2 71.4 107.0#



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V



#67

1,3,5-Trichlorobenzene

Concen: 0.320 ug/L

RT: 14.63 min Scan# 2088

Delta R.T. 0.01 min

Lab File: VW017909.D

Acq: 15 Jan 2021 19:43

Tgt Ion: 180 Resp: 670

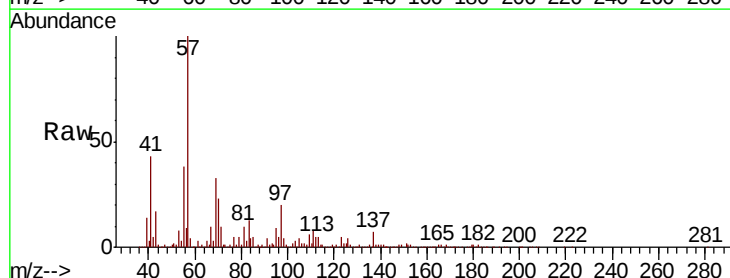
Ion Ratio Lower Upper

180 100

182 19.9 77.0 115.6#

184 19.7 24.2 36.4#

145 19.3 23.5 35.3#

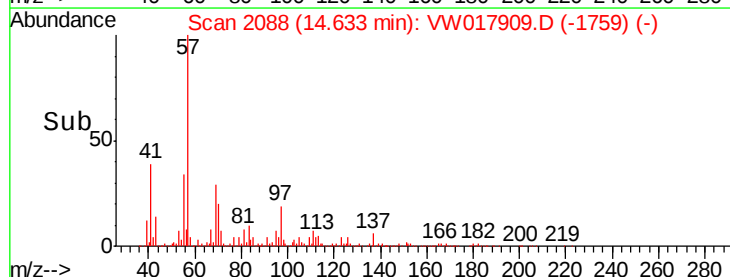
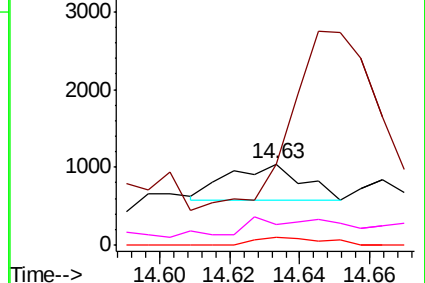


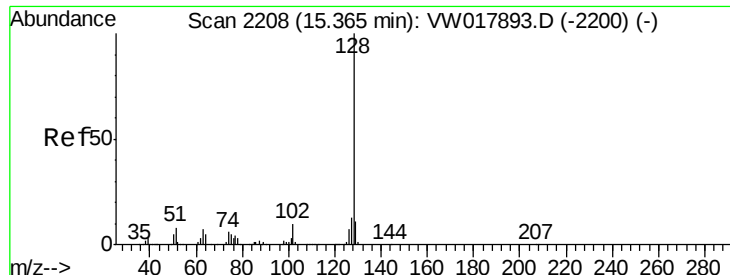
Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 0.259 ug/L

RT: 15.37 min Scan# 2209

Delta R.T. 0.01 min

Lab File: VW017909.D

Acq: 15 Jan 2021 19:43

Instrument :

MSVOA_W

ClientSampleId :

F1C16

Tot Ion:128 Resp: 848

Ion Ratio Lower Upper

128 100

129 17.6 8.7 13.1#

127 0.0 10.7 16.1#

