

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW080320\
 Data File : VW016029.D
 Acq On : 03 Aug 2020 12:43
 Operator : SY/VA
 Sample : L3533-01RE
 Misc : 3.22G/10ML/MSVOA W/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Aug 04 03:36:57 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM072020S.M
 Quant Title : VOC Analysis
 QLast Update : Tue Aug 04 03:35:29 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.85	114	403052	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	318547	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	91717	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	111629	19.63	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	78.52%
7) Chloroethane-d5	2.90	69	97130	21.03	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	84.12%
10) 1,1-Dichloroethene-d2	4.01	63	177166	15.41	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	61.64%
20) 2-Butanone-d5	7.09	46	54506	36.48	ug/L	0.01
Spiked Amount	50.000	Range	20 - 135	Recovery	=	72.96%
24) Chloroform-d	7.65	84	237752	21.00	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	84.00%
26) 1,2-Dichloroethane-d4	8.31	65	118770	19.11	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	76.44%
29) Benzene-d6	8.28	84	482373	24.88	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	99.52%
33) 1,2-Dichloropropane-d6	9.28	67	149187	25.66	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	102.64%
37) Toluene-d8	10.33	98	399538	22.75	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	91.00%
38) trans-1,3-Dichloropropene-	10.58	79	52405	21.15	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	84.60%
39) 2-Hexanone-d5	10.93	63	42297	43.70	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	87.40%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	87688	19.63	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	78.52%
61) 1,2-Dichlorobenzene-d4	13.86	152	77054	21.55	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	86.20%

Target Compounds

					Ovalue
13) Acetone	4.14	43	8029	6.400	ug/L 91
14) Carbon disulfide	4.38	76	7508	0.459	ug/L 98
16) Methylene chloride	4.92	84	36858	5.581	ug/L 93
35) Trichloroethene	9.10	95	2725	0.532	ug/L 96
36) Methylcyclohexane	9.34	83	17022	1.938	ug/L # 77
42) cis-1,3-Dichloropropene	10.04	75	3781	0.518	ug/L # 66
46) 1,1,2-Trichloroethane	10.76	97	8227	2.387	ug/L # 21
49) 2-Hexanone	10.93	43	11841	5.964	ug/L # 43
52) Chlorobenzene	11.66	112	6335	0.487	ug/L 98
54) m,p-Xylene	11.84	106	3204	0.375	ug/L # 43
57) Isopropylbenzene	12.47	105	13688	0.626	ug/L # 69
58) 1,1,2,2-Tetrachloroethane	12.70	83	2880	0.712	ug/L # 62
59) 1,2,3-Trichloropropane	13.56	75	11663	3.846	ug/L 92
63) 1,3-Dichlorobenzene	13.51	146	1800	0.307	ug/L # 32
64) 1,4-Dichlorobenzene	13.58	146	2764	0.464	ug/L # 1
65) 1,2-Dichlorobenzene	13.87	146	4841	0.908	ug/L # 61
66) 1,2-Dibromo-3-chloropropan	14.21	75	1111	2.768	ug/L # 6

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Quant Title : VOC Analysis
QLast Update : Tue Aug 04 03:35:29 2020
Response via : Initial Calibration

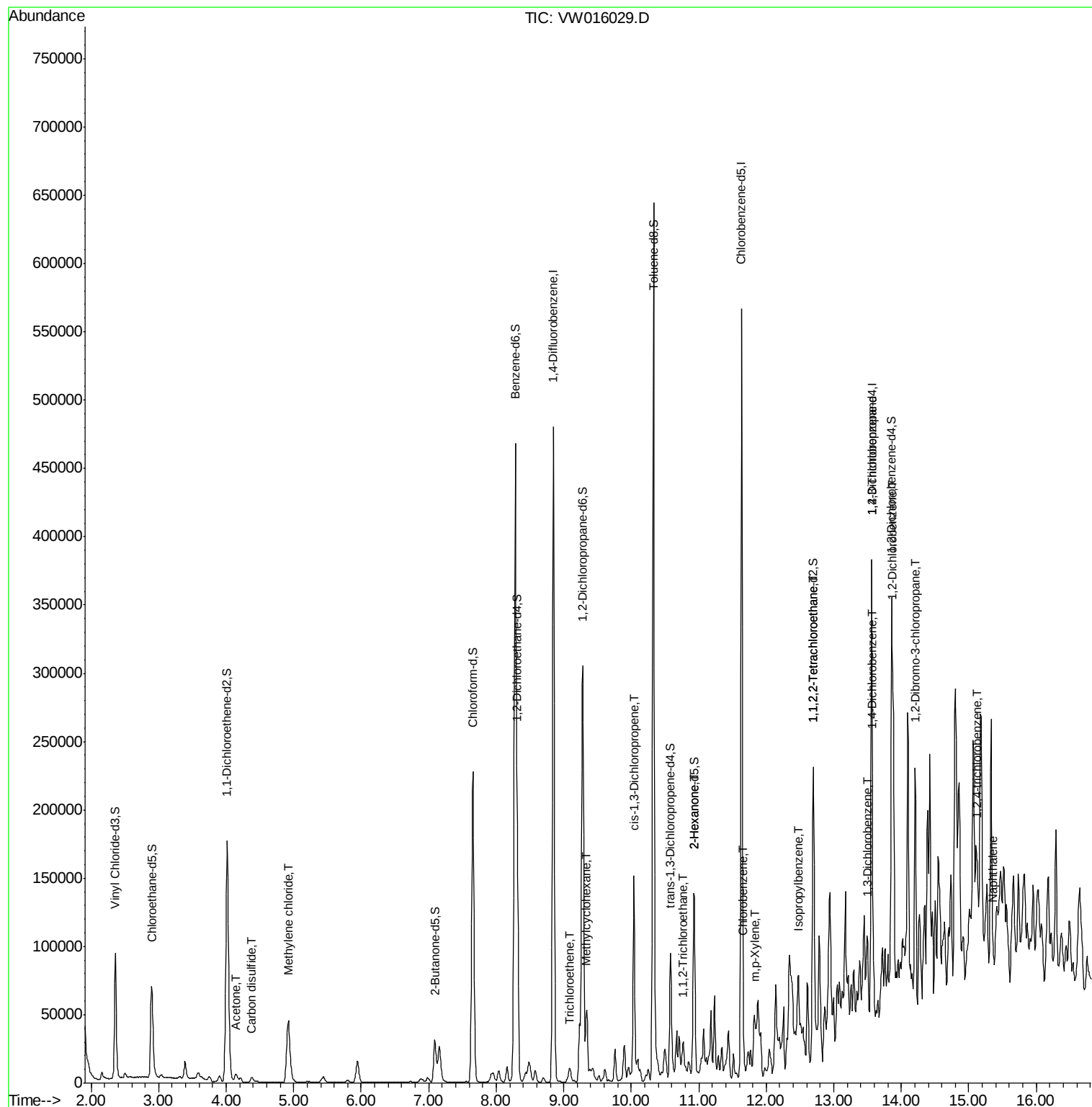
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1,2,4-trichlorobenzene	15.13	180	1528	0.466	ug/L #	1
69) Naphthalene	15.36	128	6673	1.080	ug/L #	88

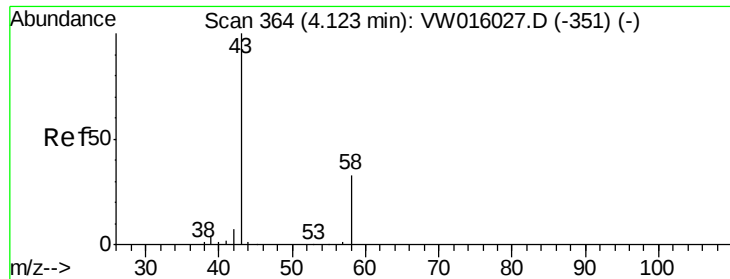
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Aug 04 03:36:57 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM072020S.M
Quant Title : VOC Analysis
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Response via : Initial Calibration





#13

Acetone

Concen: 6.400 ug/L

RT: 4.14 min Scan# 367

Delta R.T. 0.02 min

Lab File: VW016029.D

Acq: 03 Aug 2020 12:43

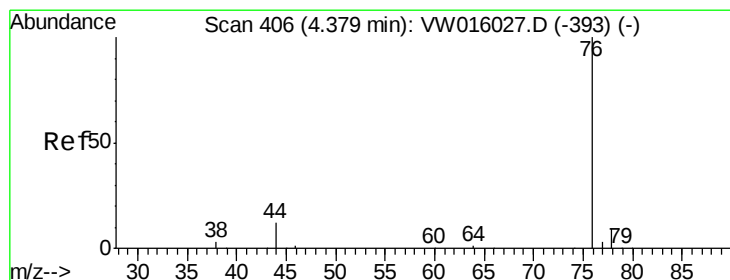
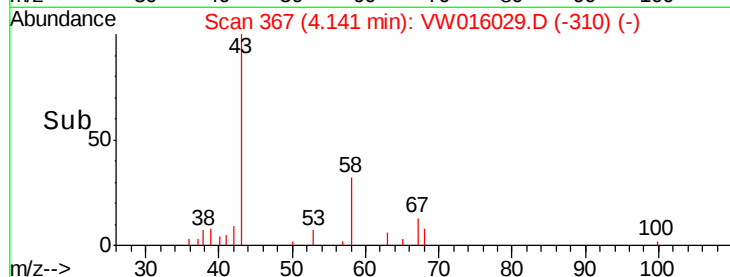
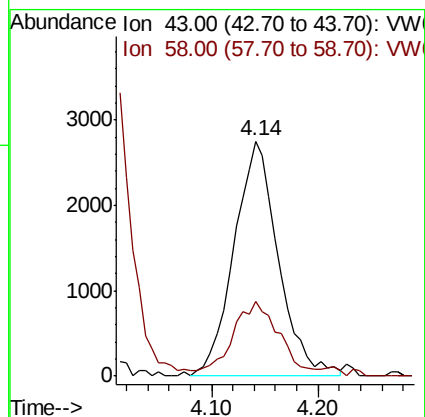
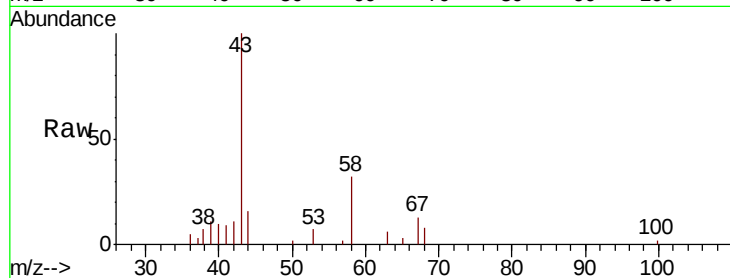
Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 43 Resp: 8029

Ion Ratio Lower Upper

43 100

58 33.8 0.0 58.2



#14

Carbon disulfide

Concen: 0.459 ug/L

RT: 4.38 min Scan# 406

Delta R.T. -0.00 min

Lab File: VW016029.D

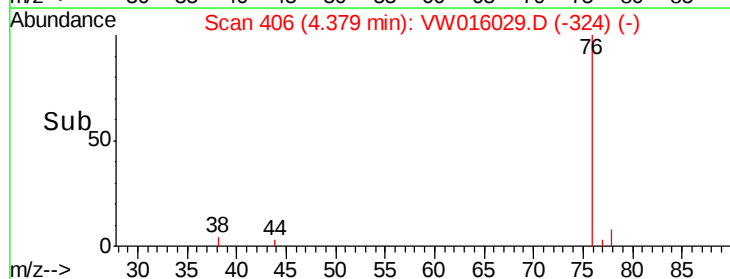
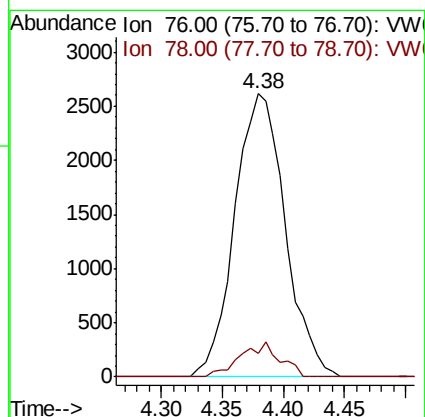
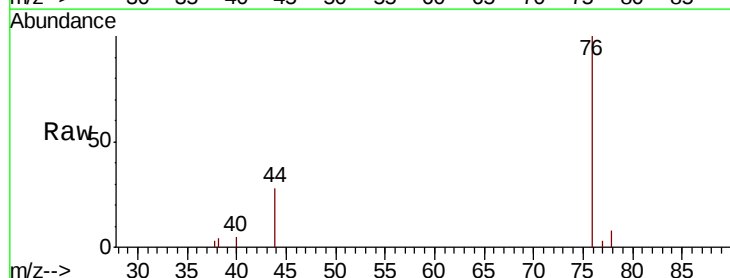
Acq: 03 Aug 2020 12:43

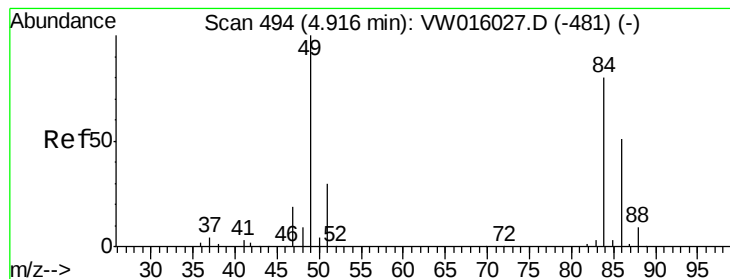
Tgt Ion: 76 Resp: 7508

Ion Ratio Lower Upper

76 100

78 8.1 7.2 10.8





#16

Methvlene chloride

Concen: 5.581 ug/L

RT: 4.92 min Scan# 495

Delta R.T. 0.01 min

Lab File: VW016029.D

Acq: 03 Aug 2020 12:43

Instrument :

MSVOA_W

ClientSampleId :

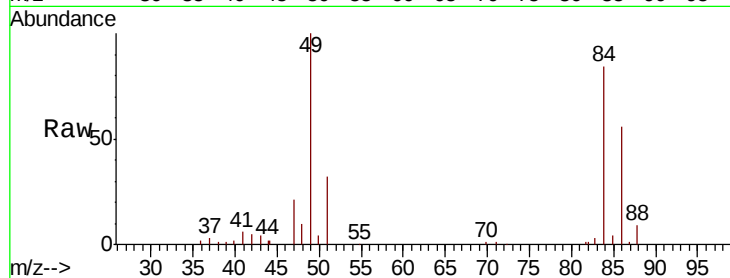
Tot Ion: 84 Resp: 36858

Ion Ratio Lower Upper

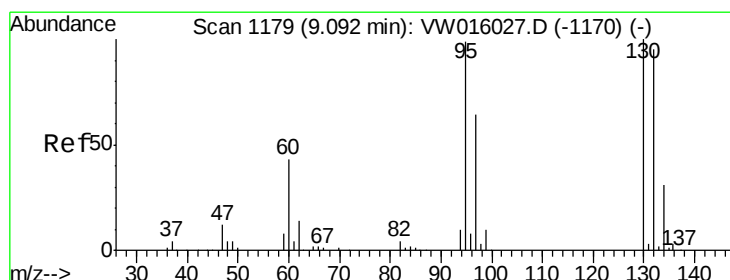
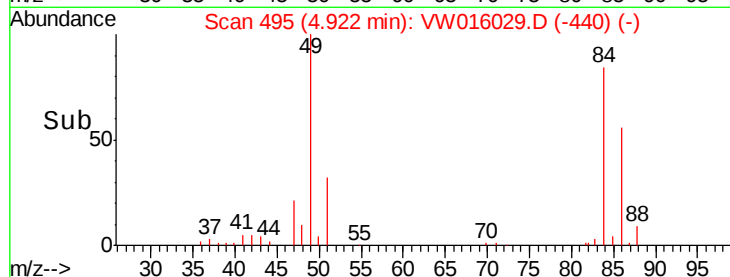
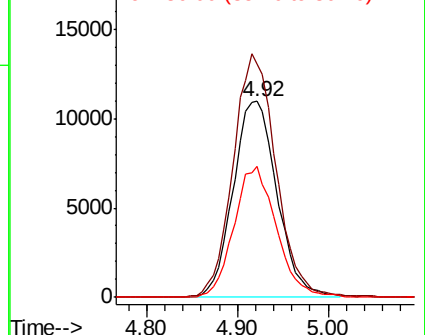
84 100

49 119.2 91.1 169.1

86 66.9 46.0 85.4



Abundance Ion 84.00 (83.70 to 84.70): VW
Ion 49.00 (48.70 to 49.70): VW
Ion 86.00 (85.70 to 86.70): VW



#35

Trichloroethene

Concen: 0.532 ug/L

RT: 9.10 min Scan# 1180

Delta R.T. 0.01 min

Lab File: VW016029.D

Acq: 03 Aug 2020 12:43

Tgt Ion: 95 Resp: 2725

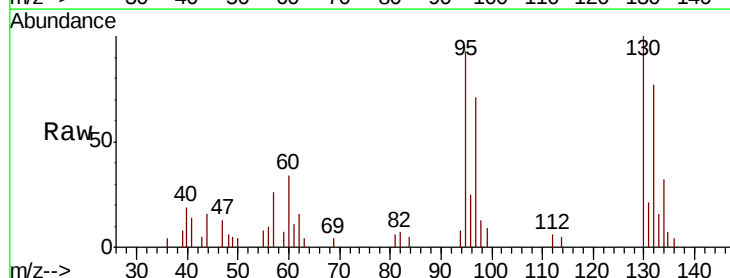
Ion Ratio Lower Upper

95 100

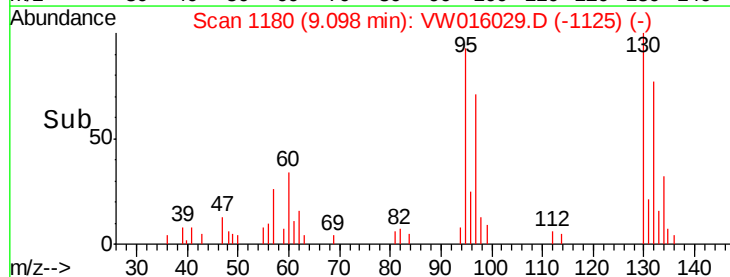
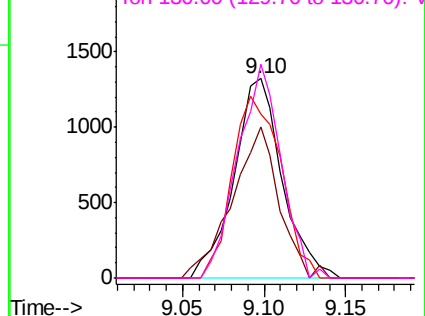
97 72.9 44.4 82.4

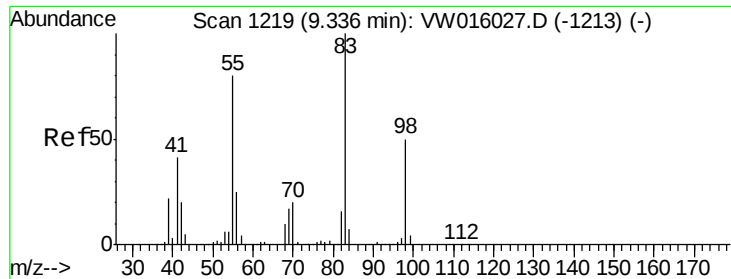
132 92.2 65.1 120.9

130 95.5 68.6 127.4



Abundance Ion 95.00 (94.70 to 95.70): VW
Ion 97.00 (96.70 to 97.70): VW
Ion 132.00 (131.70 to 132.70): V
Ion 130.00 (129.70 to 130.70): V

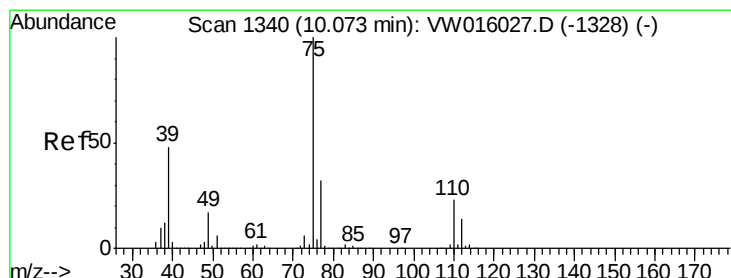
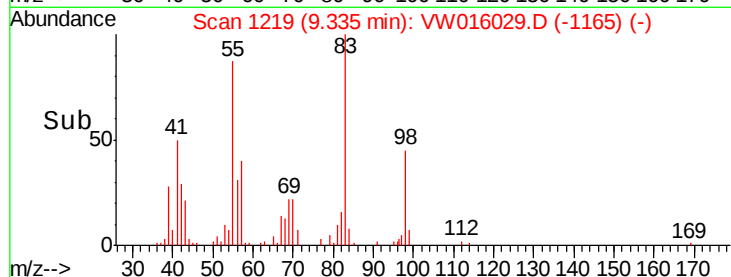
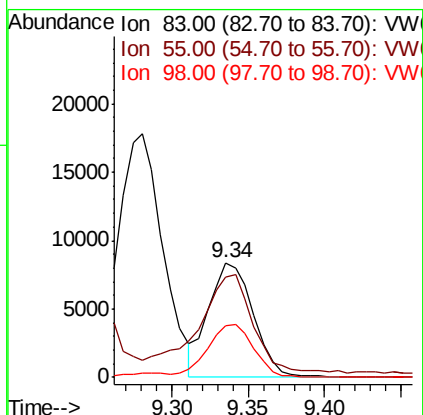
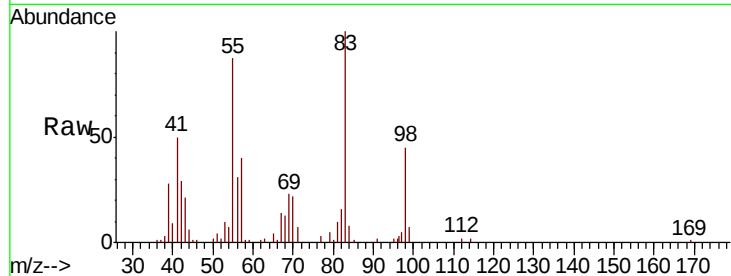




#36
Methylcyclohexane
Concen: 1.938 ug/L
RT: 9.34 min Scan# 1219
Delta R.T. -0.00 min
Lab File: VW016029.D
Acq: 03 Aug 2020 12:43

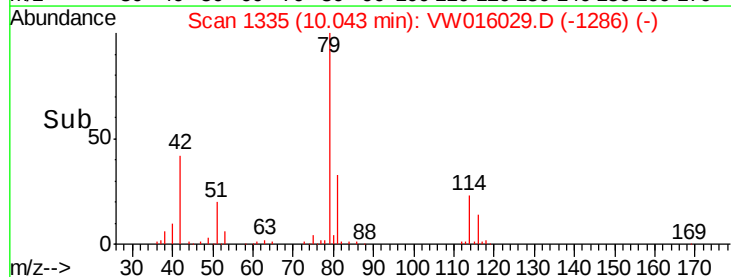
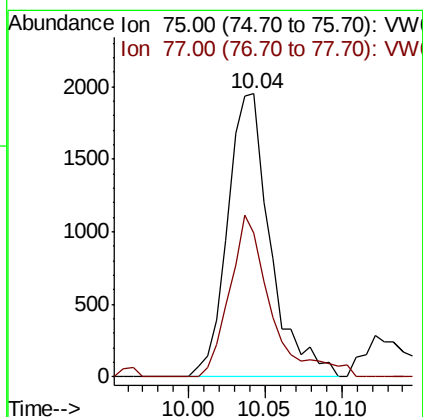
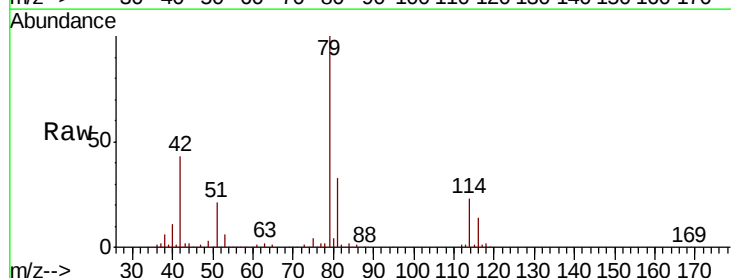
Instrument :
MSVOA_W
ClientSampleId :

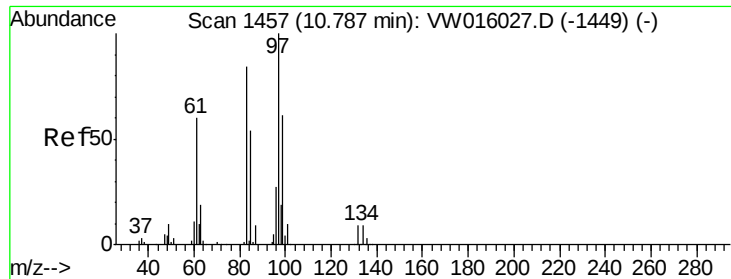
Tot Ion: 83 Resp: 17022
Ion Ratio Lower Upper
83 100
55 110.9 63.5 95.3#
98 47.6 39.0 58.4



#42
cis-1,3-Dichloropropene
Concen: 0.518 ug/L
RT: 10.04 min Scan# 1335
Delta R.T. -0.03 min
Lab File: VW016029.D
Acq: 03 Aug 2020 12:43

Tgt Ion: 75 Resp: 3781
Ion Ratio Lower Upper
75 100
77 50.7 22.2 41.2#

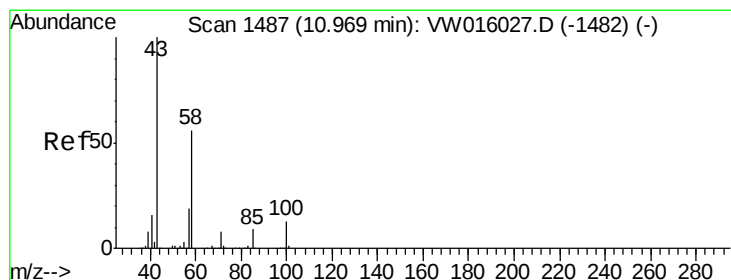
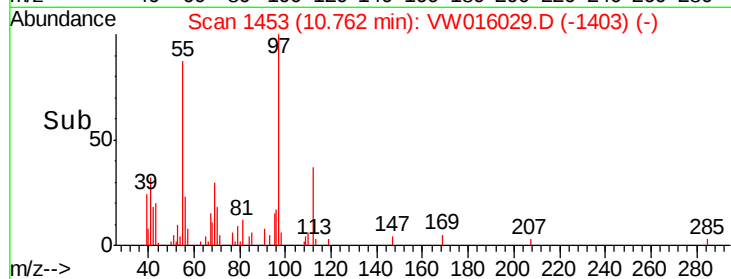
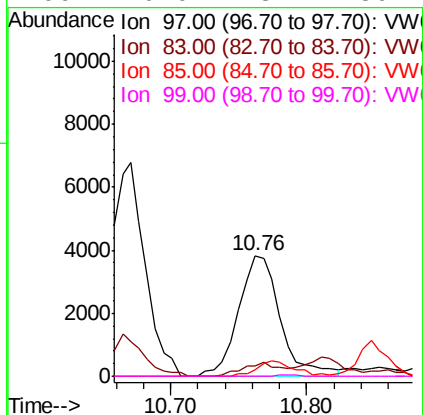
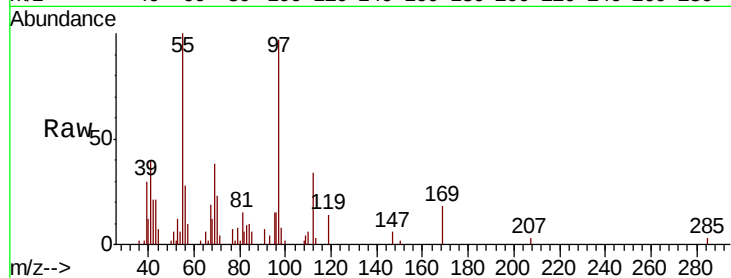




#46
 1,1,2-Trichloroethane
 Concen: 2.387 ug/L
 RT: 10.76 min Scan# 1453
 Delta R.T. -0.02 min
 Lab File: VW016029.D
 Acq: 03 Aug 2020 12:43

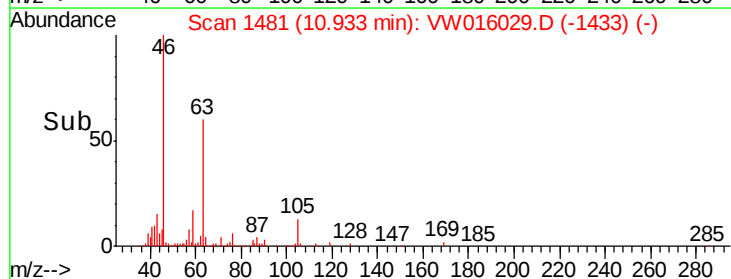
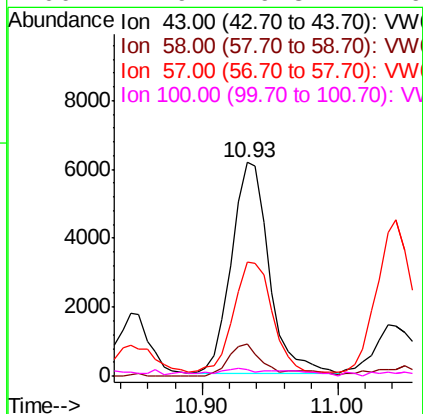
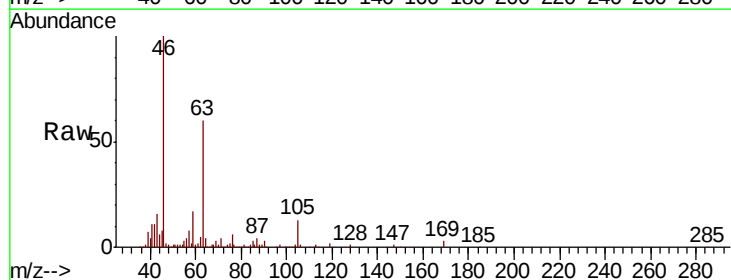
Instrument :
 MSVOA_W
 ClientSampled :

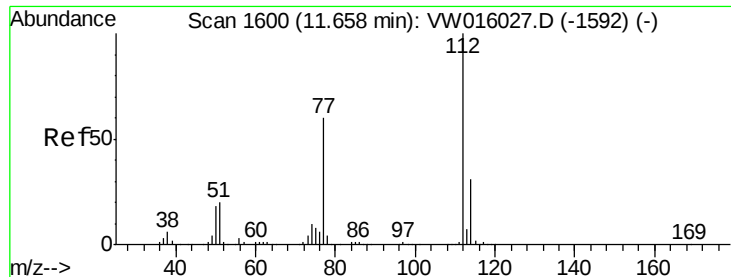
Tot Ion:	97	Resp:	8227
Ion	Ratio	Lower	Upper
97	100		
83	9.0	60.6	112.6#
85	5.7	38.9	72.2#
99	0.0	43.1	80.1#



#49
 2-Hexanone
 Concen: 5.964 ug/L
 RT: 10.93 min Scan# 1481
 Delta R.T. -0.04 min
 Lab File: VW016029.D
 Acq: 03 Aug 2020 12:43

Tgt Ion:	43	Resp:	11841
Ion	Ratio	Lower	Upper
43	100		
58	12.7	42.4	63.6#
57	53.8	15.6	23.4#
100	1.9	9.8	14.6#

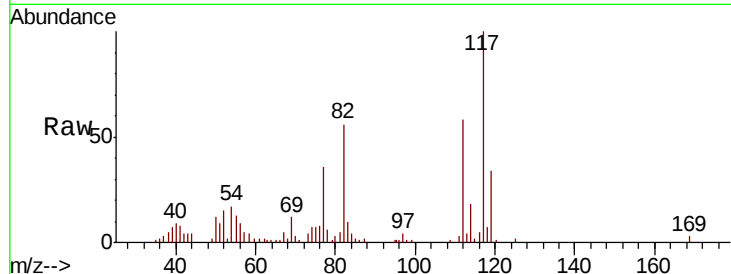




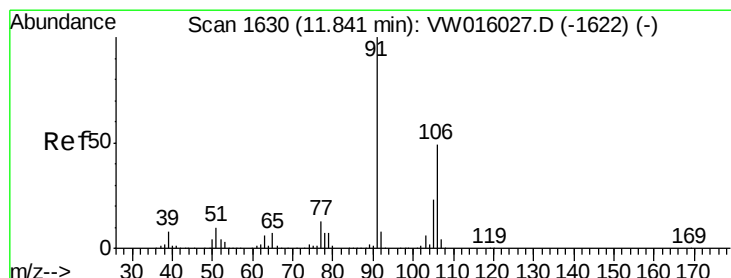
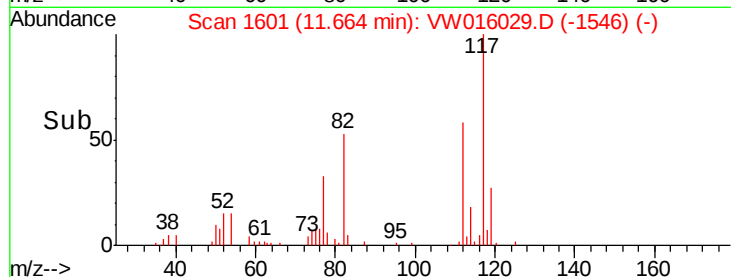
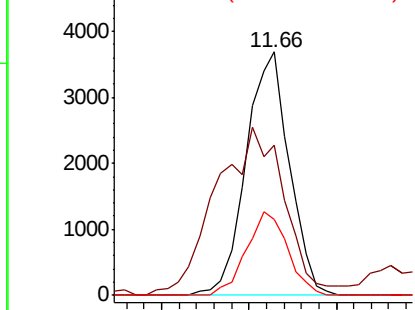
#52
Chlorobenzene
Concen: 0.487 ug/L
RT: 11.66 min Scan# 1601
Delta R.T. 0.01 min
Lab File: VW016029.D
Acq: 03 Aug 2020 12:43

Instrument :
MSVOA_W
ClientSampled :

Tot Ion:112 Resp: 6335
Ion Ratio Lower Upper
112 100
77 61.5 47.8 71.6
114 31.4 22.1 41.1

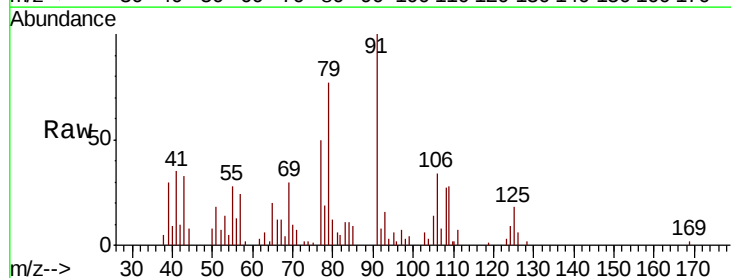


Abundance Ion 112.00 (111.70 to 112.70): V
Ion 77.00 (76.70 to 77.70): VW
Ion 114.00 (113.70 to 114.70): V

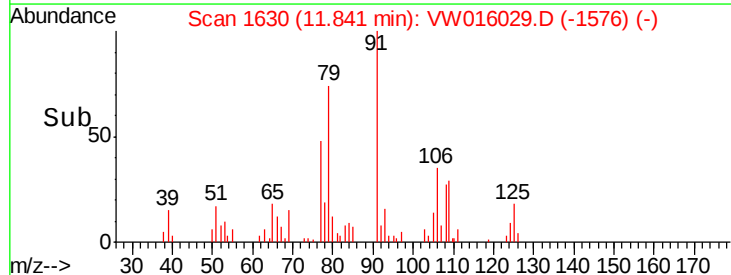
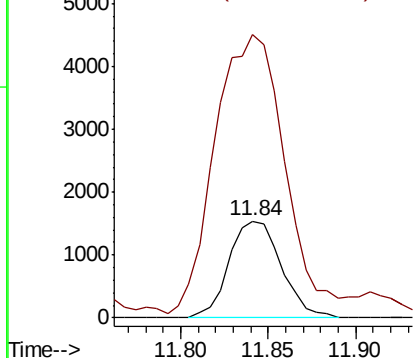


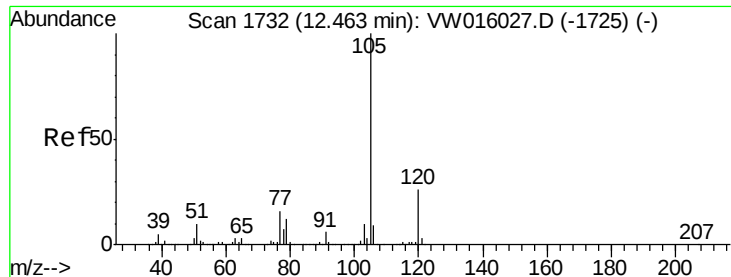
#54
m,p-Xylene
Concen: 0.375 ug/L
RT: 11.84 min Scan# 1630
Delta R.T. -0.00 min
Lab File: VW016029.D
Acq: 03 Aug 2020 12:43

Tgt Ion:106 Resp: 3204
Ion Ratio Lower Upper
106 100
91 293.1 144.1 267.5#



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





#57

Isopropylbenzene

Concen: 0.626 ug/L

RT: 12.47 min Scan# 1733

Delta R.T. 0.01 min

Lab File: VW016029.D

Acq: 03 Aug 2020 12:43

Instrument :

MSVOA_W

ClientSampleId :

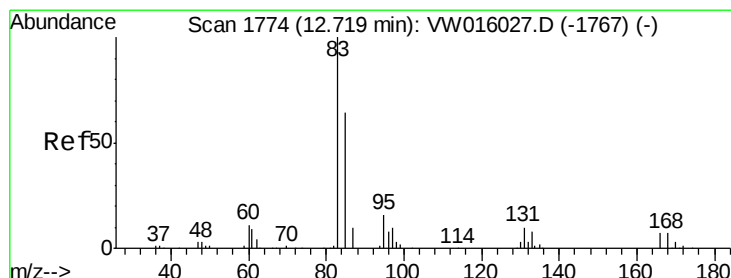
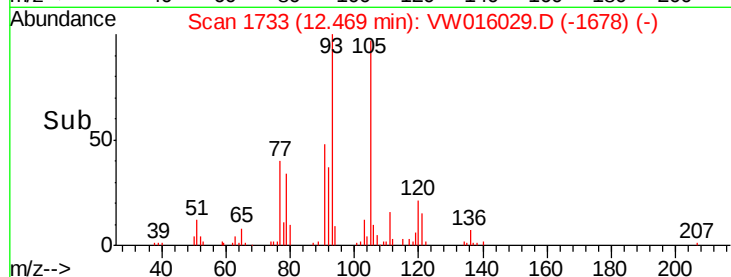
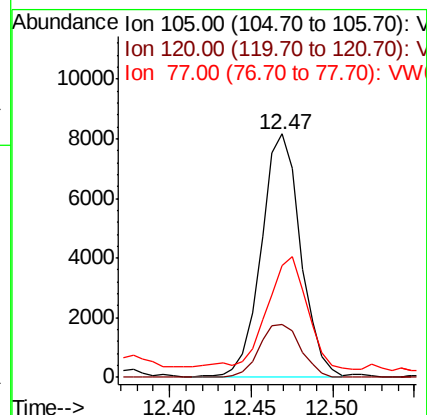
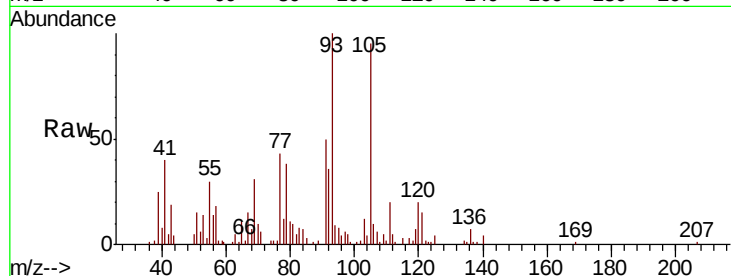
Tot Ion:105 Resp: 13688

Ion Ratio Lower Upper

105 100

120 22.6 20.4 30.6

77 45.9 12.9 19.3#



#58

1,1,2,2-Tetrachloroethane

Concen: 0.712 ug/L

RT: 12.70 min Scan# 1771

Delta R.T. -0.02 min

Lab File: VW016029.D

Acq: 03 Aug 2020 12:43

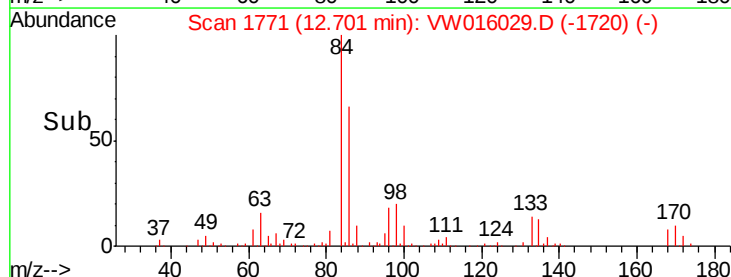
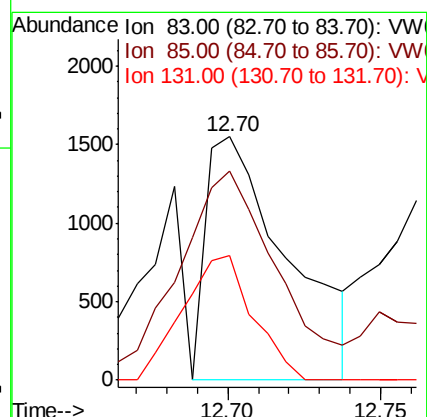
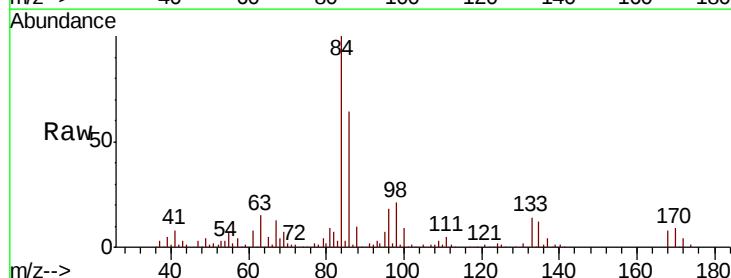
Tgt Ion: 83 Resp: 2880

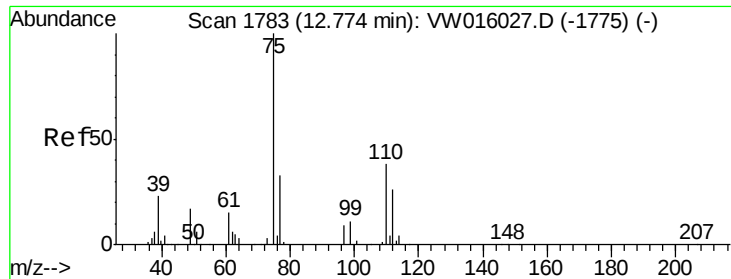
Ion Ratio Lower Upper

83 100

85 85.8 45.1 83.7#

131 50.9 8.2 12.4#





#59

1,2,3-Trichloropropane

Concen: 3.846 ug/L

RT: 13.56 min Scan# 1912

Delta R.T. 0.79 min

Lab File: VW016029.D

Acq: 03 Aug 2020 12:43

Instrument :

MSVOA_W

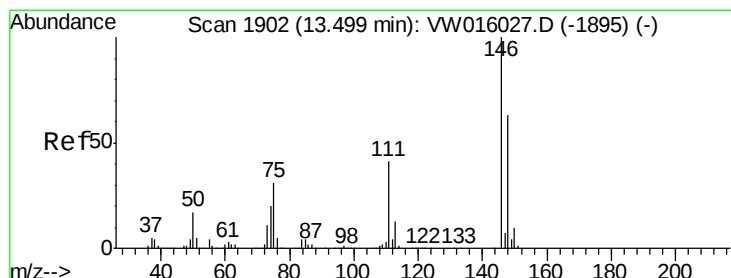
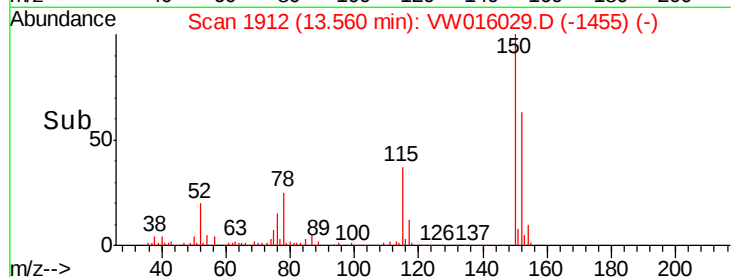
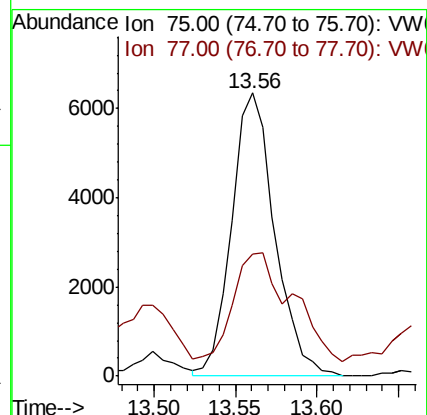
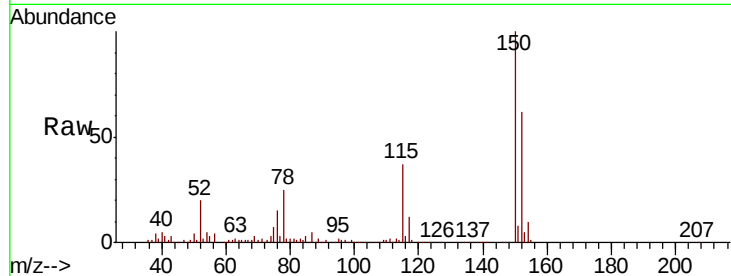
ClientSampled :

Tot Ion: 75 Resp: 11663

Ion Ratio Lower Upper

75 100

77 36.9 26.0 39.0



#63

1,3-Dichlorobenzene

Concen: 0.307 ug/L

RT: 13.51 min Scan# 1903

Delta R.T. 0.01 min

Lab File: VW016029.D

Acq: 03 Aug 2020 12:43

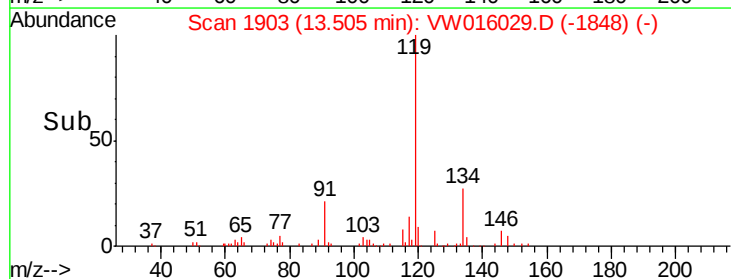
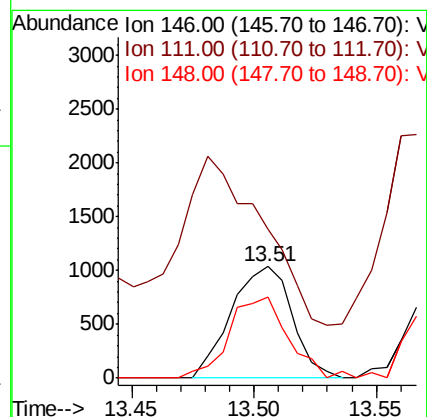
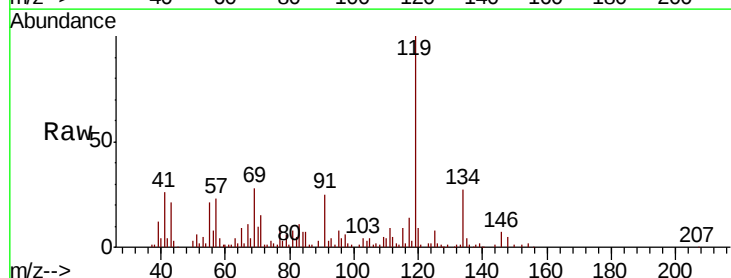
Tgt Ion: 146 Resp: 1800

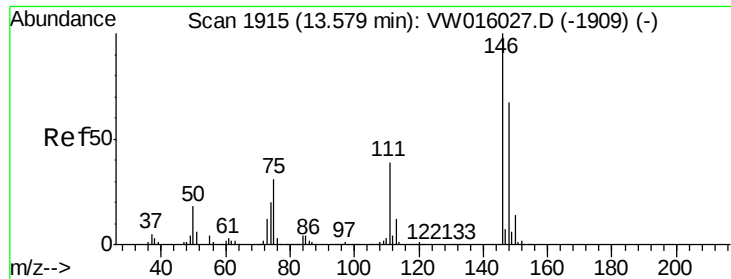
Ion Ratio Lower Upper

146 100

111 133.7 27.9 51.7#

148 72.2 43.2 80.2





#64

1,4-Dichlorobenzene

Concen: 0.464 ug/L

RT: 13.58 min Scan# 1915

Delta R.T. -0.00 min

Lab File: VW016029.D

Acq: 03 Aug 2020 12:43

Instrument :

MSVOA_W

ClientSampleId :

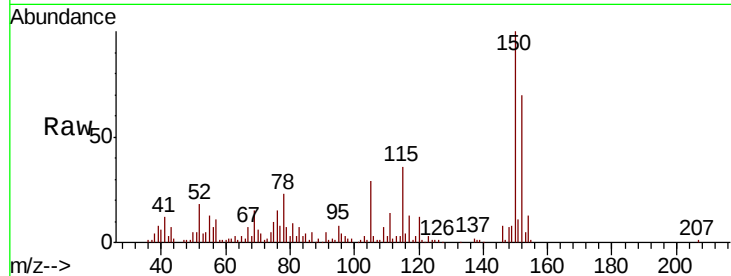
Tot Ion:146 Resp: 2764

Ion Ratio Lower Upper

146 100

111 184.1 29.3 54.3#

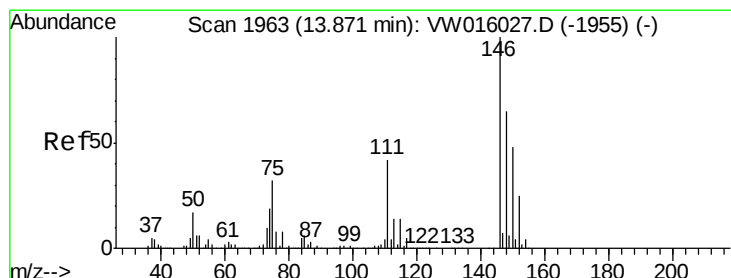
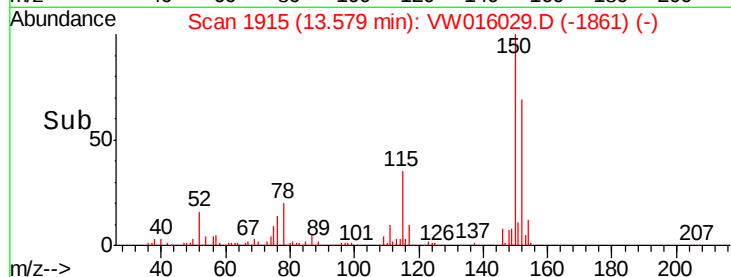
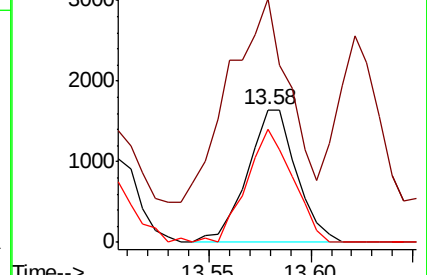
148 85.2 44.5 82.7#



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



#65

1,2-Dichlorobenzene

Concen: 0.908 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. -0.00 min

Lab File: VW016029.D

Acq: 03 Aug 2020 12:43

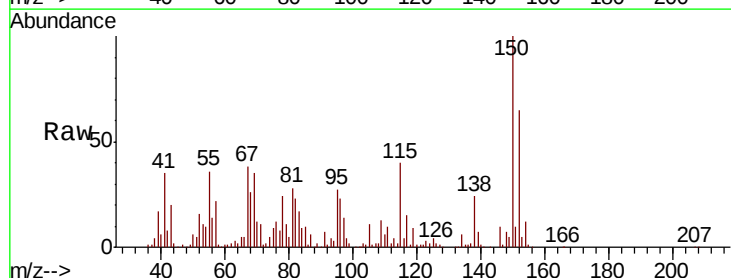
Tgt Ion:146 Resp: 4841

Ion Ratio Lower Upper

146 100

111 96.0 32.9 49.3#

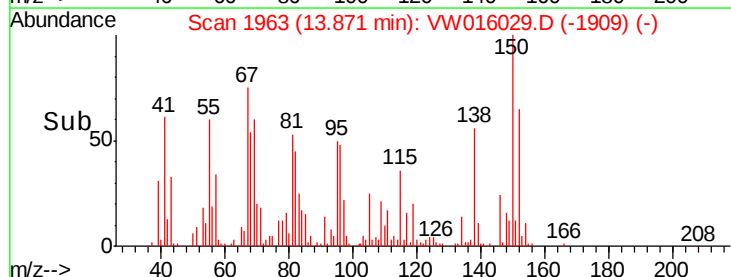
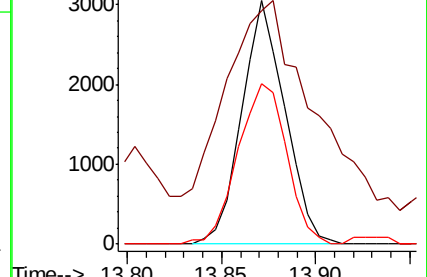
148 65.7 48.8 73.2

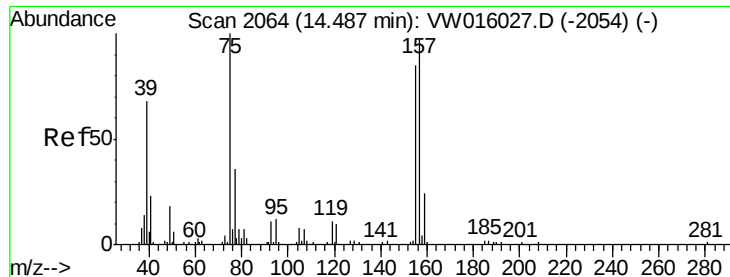


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

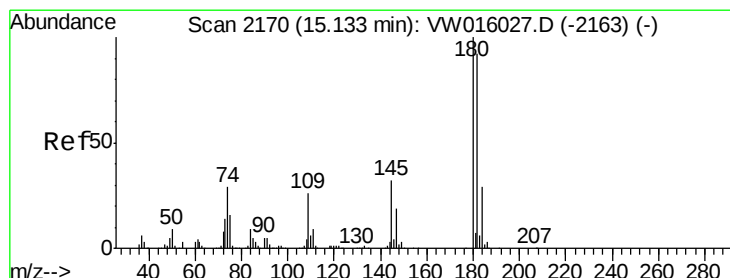
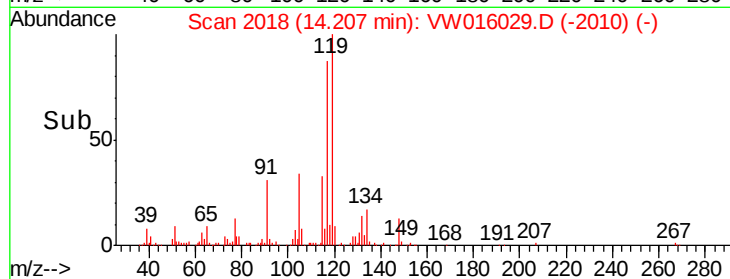
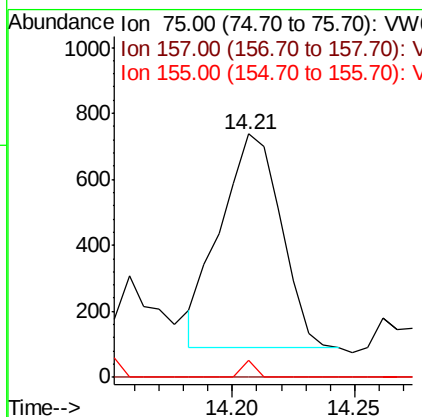
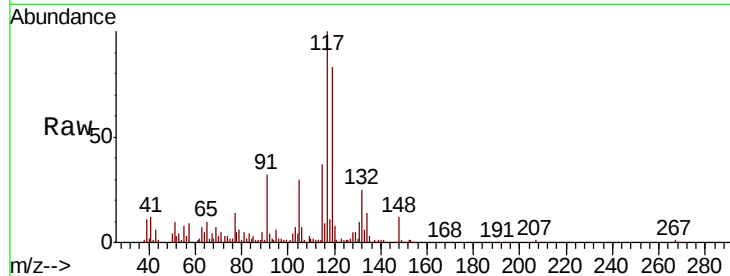




#66
 1,2-Dibromo-3-chloropropane
 Concen: 2.768 ug/L
 RT: 14.21 min Scan# 2018
 Delta R.T. -0.28 min
 Lab File: VW016029.D
 Acq: 03 Aug 2020 12:43

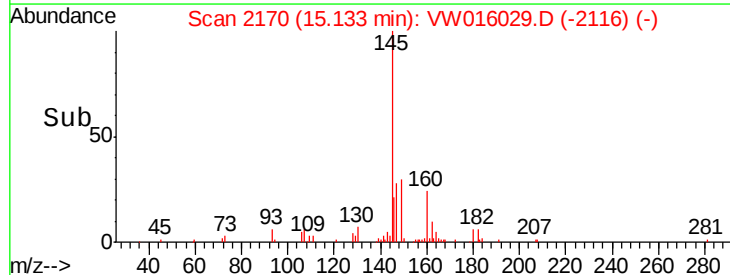
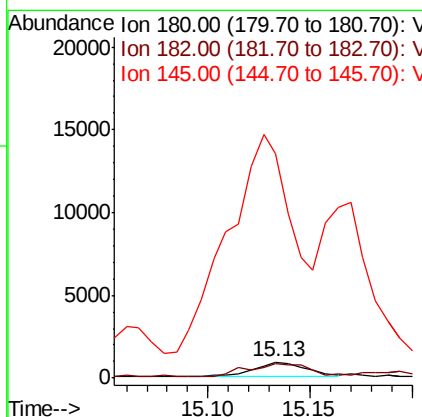
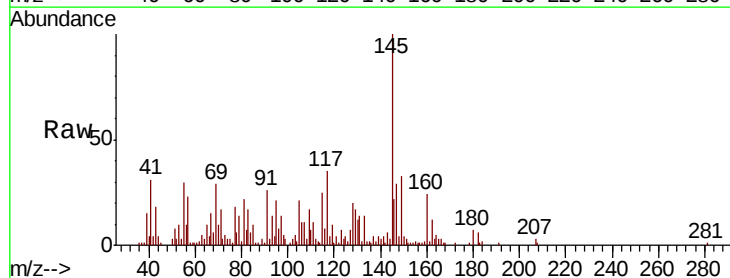
Instrument :
 MSVOA_W
 ClientSampleId :

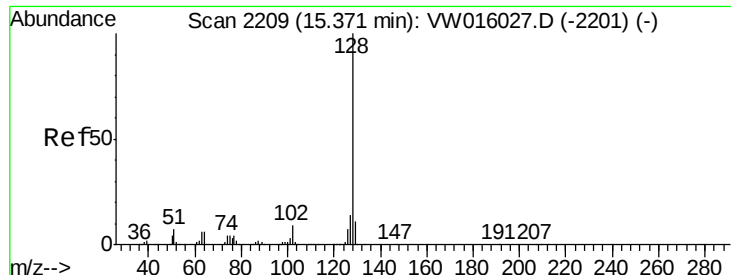
Tot Ion	75	Resp	1111
Ion Ratio	Lower	Upper	
75	100		
157	0.0	83.0	124.4#
155	6.9	66.9	100.3#



#68
 1,2,4-trichlorobenzene
 Concen: 0.466 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. -0.00 min
 Lab File: VW016029.D
 Acq: 03 Aug 2020 12:43

Tgt Ion	180	Resp	1528
Ion Ratio	Lower	Upper	
180	100		
182	75.1	76.0	114.0#
145	2330.8	24.3	36.5#





#69

Naphthalene

Concen: 1.080 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. -0.01 min

Lab File: VW016029.D

Acq: 03 Aug 2020 12:43

Instrument :

MSVOA_W

ClientSampleId :

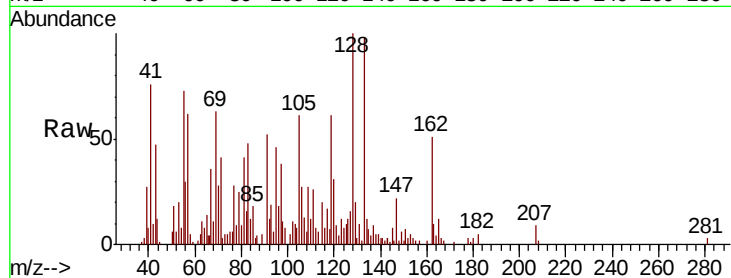
Tot Ion:128 Resp: 6673

Ion Ratio Lower Upper

128 100

129 11.7 8.6 12.8

127 5.3 10.5 15.7#



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V

