

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW092320\
 Data File : VW016618.D
 Acq On : 22 Sep 2020 18:16
 Operator : SY/VA
 Sample : L4109-05
 Misc : 6.37G/10ML/MSVOA W/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 BG3W9

Manual Integrations
 APPROVED

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 9/28/2020 3:16:33 PM

Quant Time: Sep 23 16:43:12 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM091520S.M
 Quant Title : VOC Analysis
 QLast Update : Wed Sep 23 07:21:48 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.85	114	631508	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	507781	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.57	152	186773m	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	141612	23.17	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	92.68%
7) Chloroethane-d5	2.90	69	105295	21.10	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	84.40%
10) 1,1-Dichloroethene-d2	4.05	63	1399179	102.38	ug/L	0.02
Spiked Amount	25.000	Range	45 - 110	Recovery	=	409.52%#
20) 2-Butanone-d5	7.07	46	63570	38.14	ug/L	-0.01
Spiked Amount	50.000	Range	20 - 135	Recovery	=	76.28%
24) Chloroform-d	7.65	84	331762	25.11	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	100.44%
26) 1,2-Dichloroethane-d4	8.31	65	176715m	26.06	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	104.24%
29) Benzene-d6	8.28	84	638619	28.04	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	112.16%
33) 1,2-Dichloropropane-d6	9.27	67	188377	30.52	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	122.08%#
37) Toluene-d8	10.34	98	585792	26.15	ug/L	0.01
Spiked Amount	25.000	Range	30 - 130	Recovery	=	104.60%
38) trans-1,3-Dichloropropene-	10.59	79	84804	27.26	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	109.04%
39) 2-Hexanone-d5	10.93	63	64300	57.28	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	114.56%
48) 1,1,2,2-Tetrachloroethane-	12.70	84	130224	24.80	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	99.20%
61) 1,2-Dichlorobenzene-d4	13.86	152	157177	26.34	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	105.36%

Target Compounds

					Ovalue
12) 1,1-Dichloroethene	4.06	96	2401047	300.168	ug/L # 77
18) trans-1,2-Dichloroethene	5.43	96	13081	1.579	ug/L # 27
19) 1,1-Dichloroethane	6.22	63	228837	17.469	ug/L 94
22) cis-1,2-Dichloroethene	7.17	96	2581217	300.316	ug/L 98
30) Cyclohexane	7.96	56	10758865	969.576	ug/L 99
31) 1,1,1-Trichloroethane	7.88	97	13654283	1151.359	ug/L 98
34) Benzene	8.33	78	57431m	2.110	ug/L
35) Trichloroethene	9.10	95	22207	2.820	ug/L # 88
36) Methylcyclohexane	9.34	83	134656	10.082	ug/L # 84
44) Toluene	10.38	91	38791081m	1267.521	ug/L
46) 1,1,2-Trichloroethane	10.77	97	38147	7.153	ug/L # 39
47) Tetrachloroethene	10.87	164	110400	15.527	ug/L 97
52) Chlorobenzene	11.66	112	746643	36.321	ug/L 99
53) Ethylbenzene	11.73	91	12137817	349.332	ug/L 87
54) m,p-Xylene	11.84	106	16371438m	1203.307	ug/L
55) o-xylene	12.17	106	8974382	688.518	ug/L 68
57) Isopropylbenzene	12.47	105	6827069	191.684	ug/L 99

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Manual Integrations
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Quant Title : VOC Analysis
QLast Update : Wed Sep 23 07:21:48 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
63) 1,3-Dichlorobenzene	13.51	146	68211	5.615	uq/L #	86
64) 1,4-Dichlorobenzene	13.58	146	320291	26.922	uq/L	89
65) 1,2-Dichlorobenzene	13.87	146	917422	84.516	uq/L	95

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

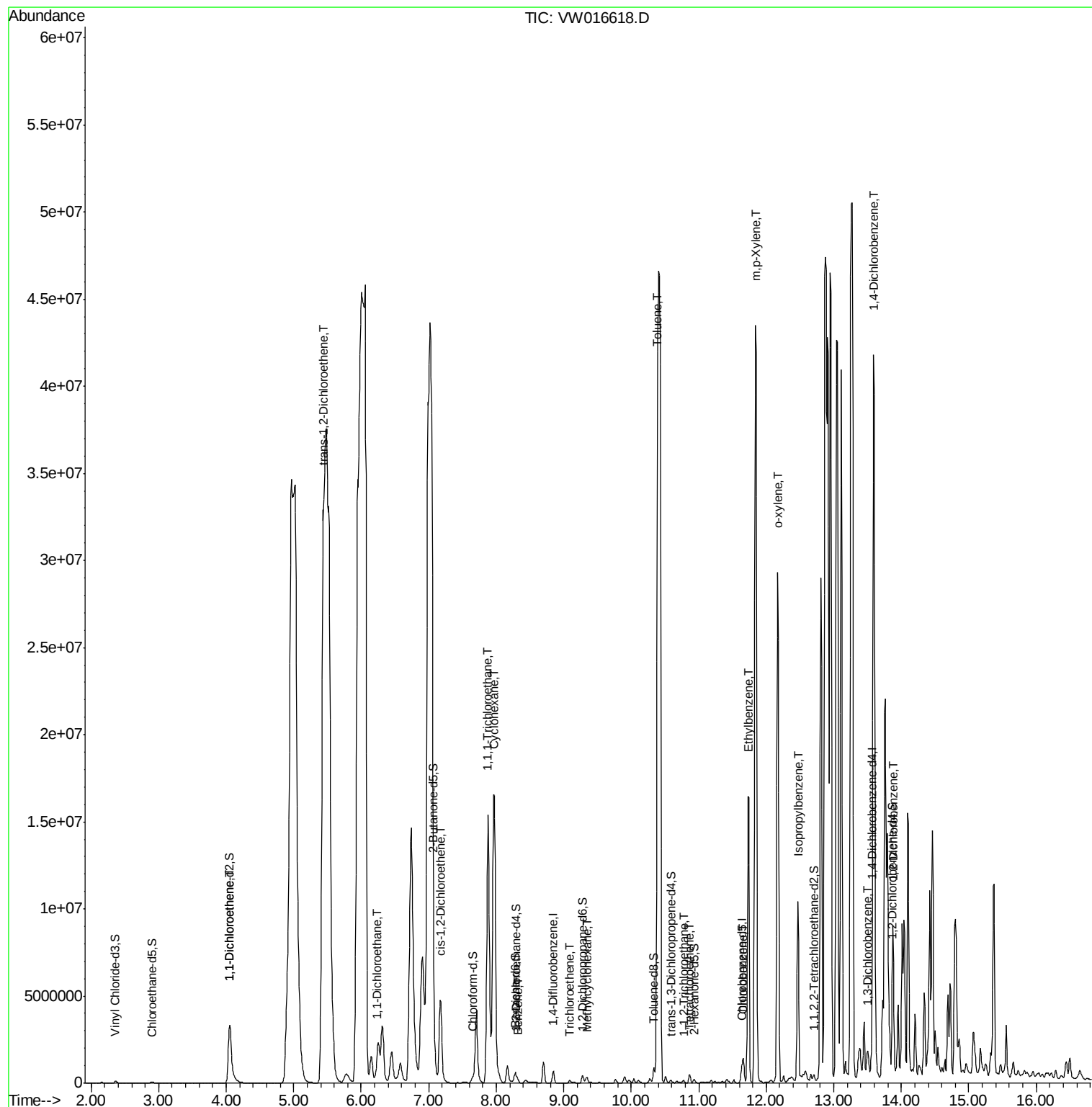
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Data File : VW016618.D
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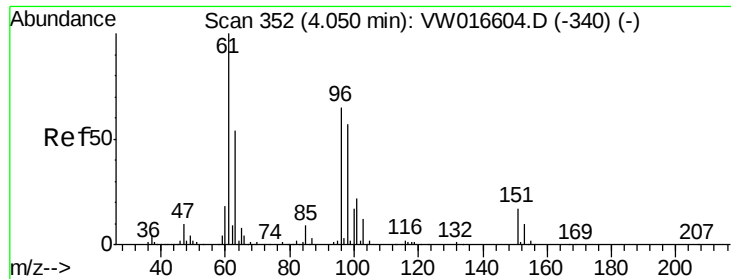
Instrument :
MSVOA_W
ClientSampleId :
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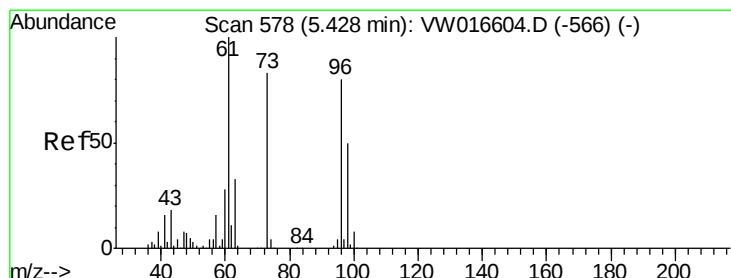
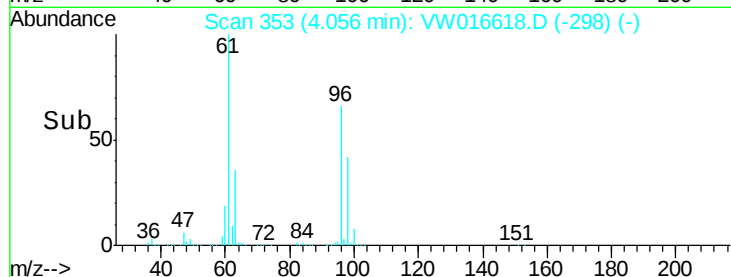
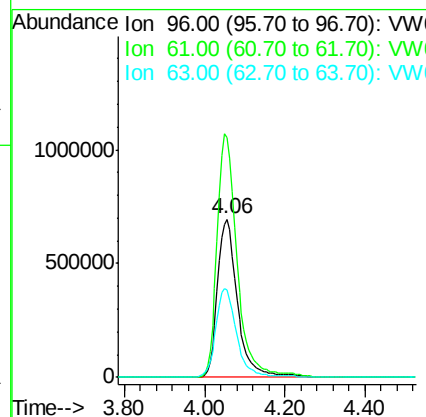
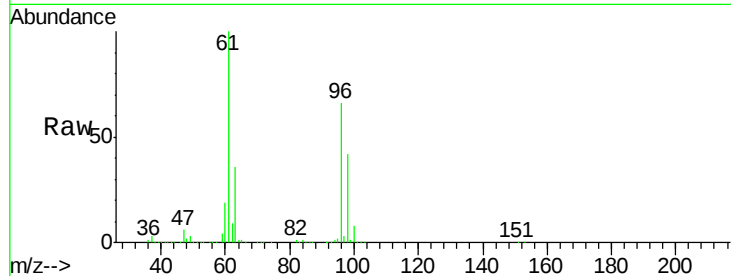
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 1,1-Dichloroethene
 Concen: 300.168 ug/L
 RT: 4.06 min Scan# 353
 Delta R.T. 0.01 min
 Lab File: VW016618.D
 Acq: 22 Sep 2020 18:16

Instrument :
 MSVOA_W
 ClientSampled :
 BG3W9

Tot Ion	Ratio	Lower	Upper
96	100		
61	151.2	111.4	206.8
63	55.2	73.0	135.6

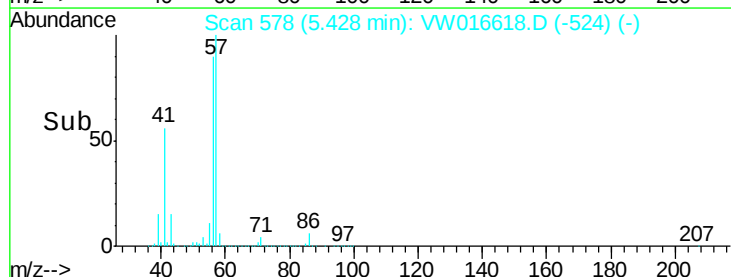
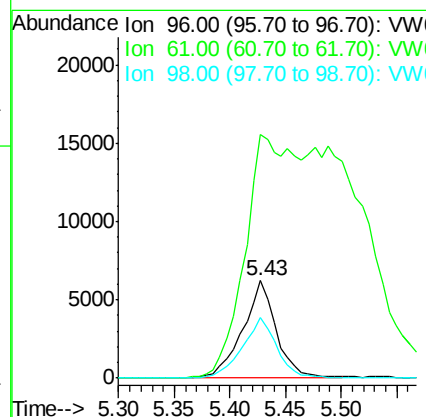
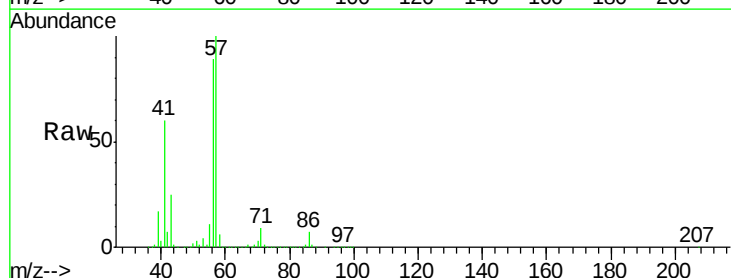
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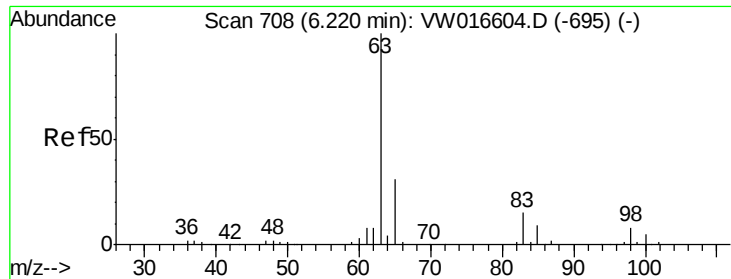
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#18
 trans-1,2-Dichloroethene
 Concen: 1.579 ug/L
 RT: 5.43 min Scan# 578
 Delta R.T. -0.00 min
 Lab File: VW016618.D
 Acq: 22 Sep 2020 18:16

Tgt Ion	Ratio	Lower	Upper
96	100		
61	250.3	88.4	164.2
98	62.4	43.0	80.0





#19

1,1-Dichloroethane

Concen: 17.469 ug/L

RT: 6.22 min Scan# 708

Delta R.T. -0.00 min

Lab File: VW016618.D

Acq: 22 Sep 2020 18:16

Instrument :

MSVOA_W

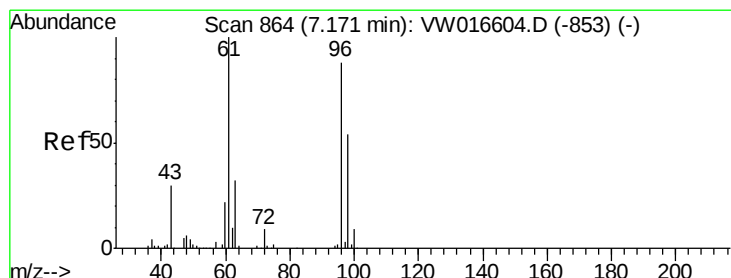
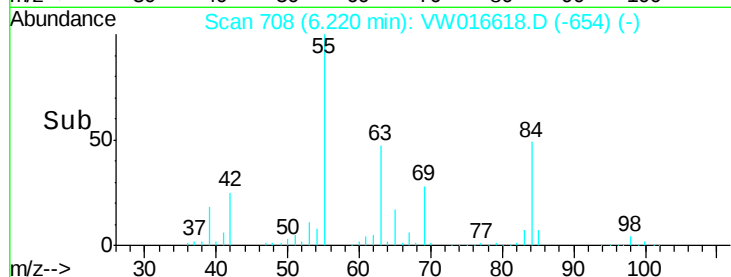
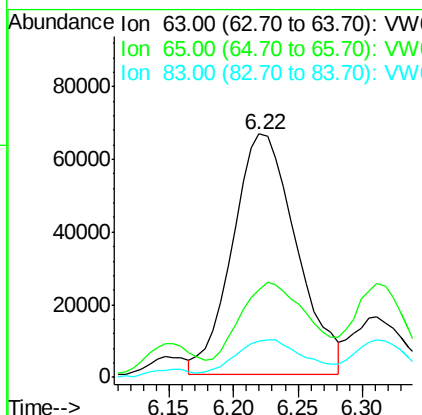
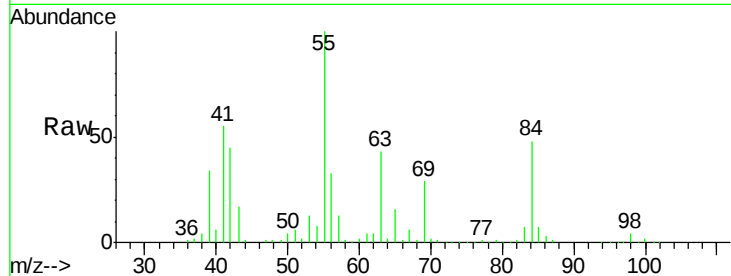
ClientSampled :

BG3W9

Tot Ion:	63	Resp:	228837
Ion Ratio		Lower	Upper
63	100		
65	35.9	21.6	40.0
83	15.0	10.4	19.2

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#22

cis-1,2-Dichloroethene

Concen: 300.316 ug/L

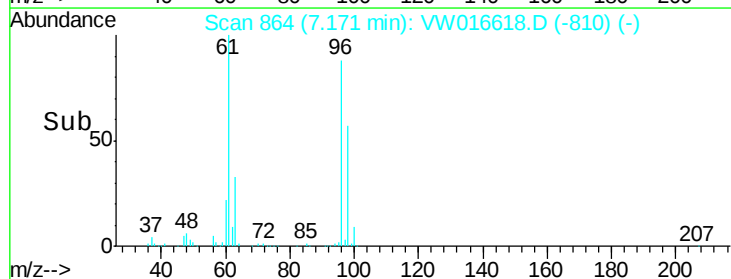
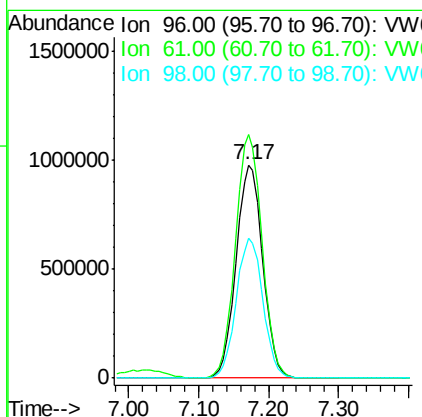
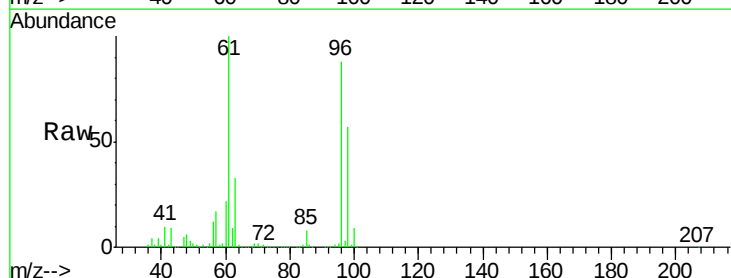
RT: 7.17 min Scan# 864

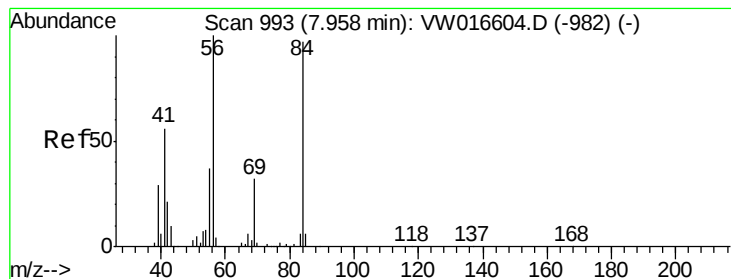
Delta R.T. -0.00 min

Lab File: VW016618.D

Acq: 22 Sep 2020 18:16

Tgt Ion:	96	Resp:	2581217
Ion Ratio		Lower	Upper
96	100		
61	114.2	78.4	145.6
98	65.4	44.8	83.2





#30

Cvclohexane

Concen: 969.576 ug/L

RT: 7.96 min Scan# 994

Delta R.T. 0.01 min

Lab File: VW016618.D

Acq: 22 Sep 2020 18:16

Instrument :

MSVOA_W

ClientSampleId :

BG3W9

Tot Ion: 56 Resp:10758865

Ion Ratio Lower Upper

56 100

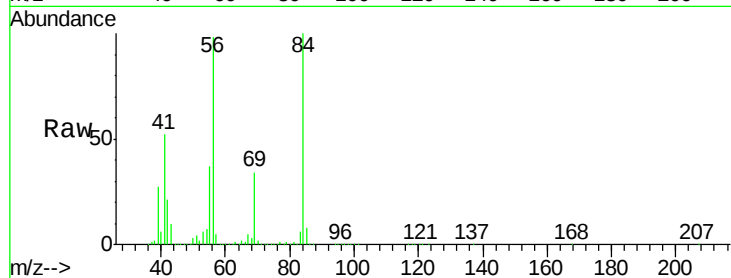
69 33.8 26.5 39.7

84 99.7 79.0 118.6

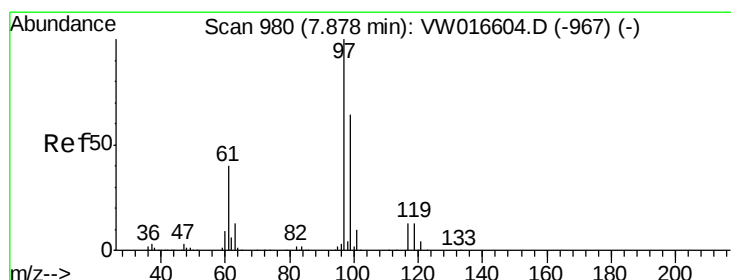
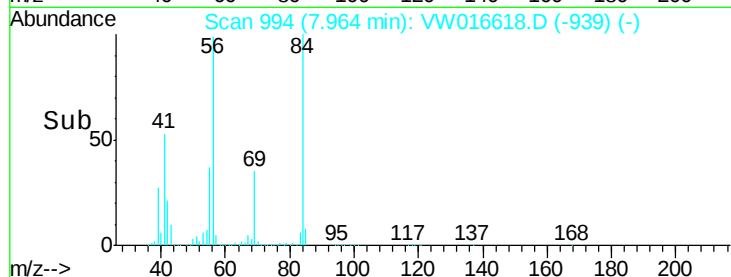
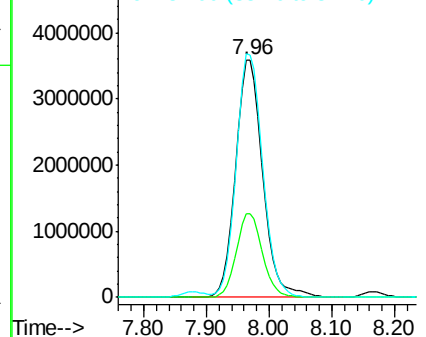
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Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW



#31

1,1,1-Trichloroethane

Concen: 1151.359 ug/L

RT: 7.88 min Scan# 980

Delta R.T. -0.00 min

Lab File: VW016618.D

Acq: 22 Sep 2020 18:16

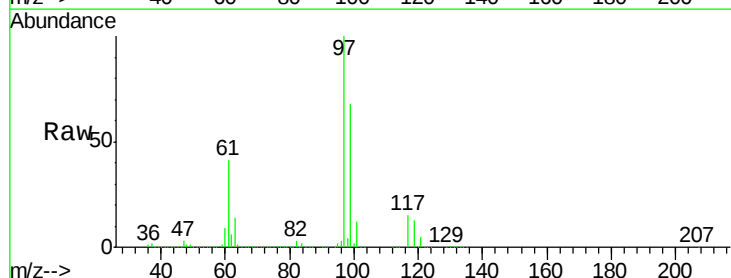
Tgt Ion: 97 Resp:13654283

Ion Ratio Lower Upper

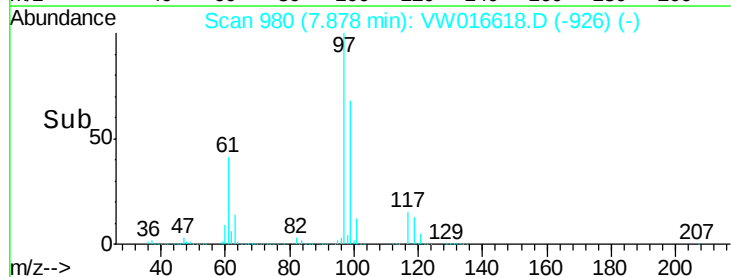
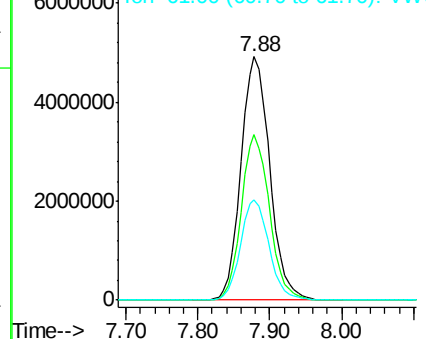
97 100

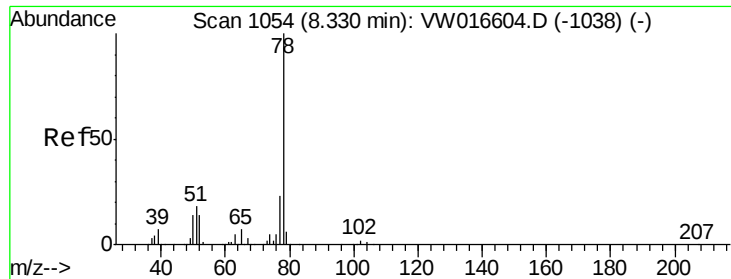
99 66.4 51.8 77.6

61 40.8 33.6 50.4



Abundance Ion 97.00 (96.70 to 97.70): VW
Ion 99.00 (98.70 to 99.70): VW
Ion 61.00 (60.70 to 61.70): VW





#34

Benzene

Concen: 2.110 ug/L m

RT: 8.33 min Scan# 1054

Delta R.T. -0.00 min

Lab File: VW016618.D

Acq: 22 Sep 2020 18:16

Instrument :

MSVOA_W

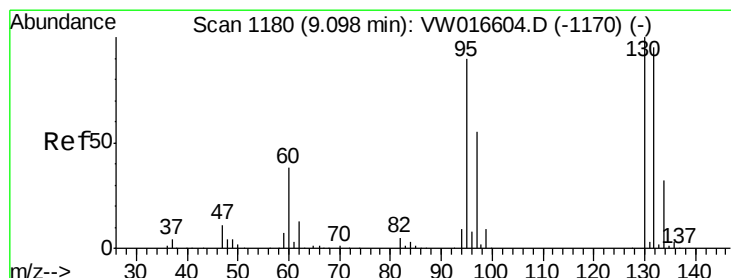
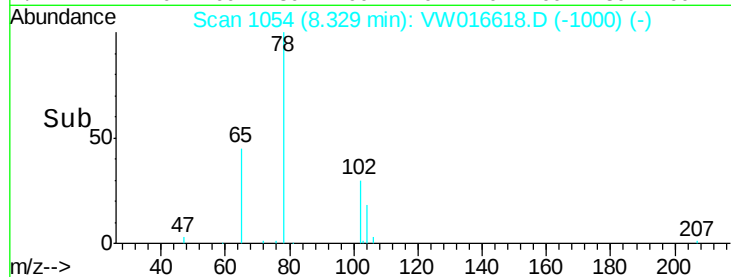
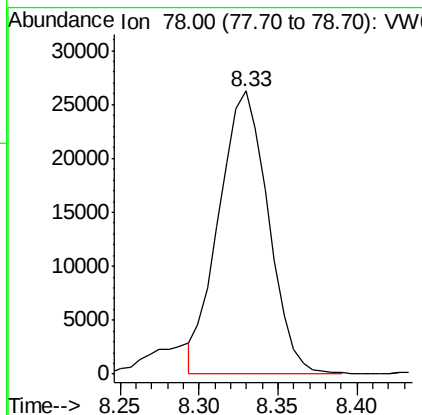
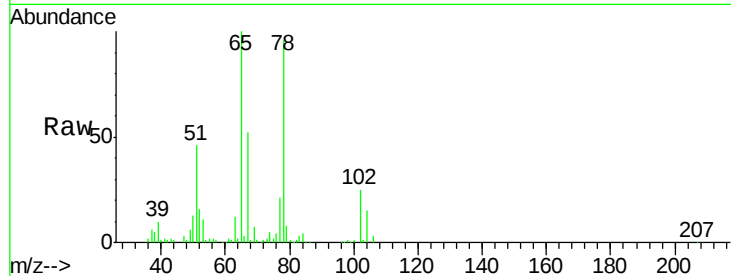
ClientSampleId :

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Tgt Ion: 78 Resp: 57431

Manual Integrations
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#35

Trichloroethene

Concen: 2.820 ug/L

RT: 9.10 min Scan# 1180

Delta R.T. -0.00 min

Lab File: VW016618.D

Acq: 22 Sep 2020 18:16

Tgt Ion: 95 Resp: 22207

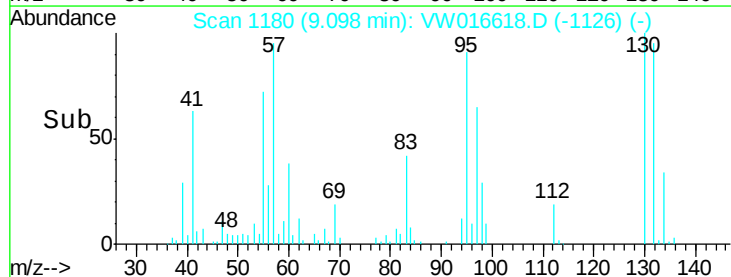
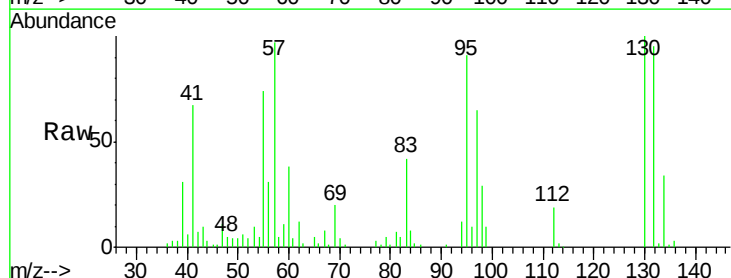
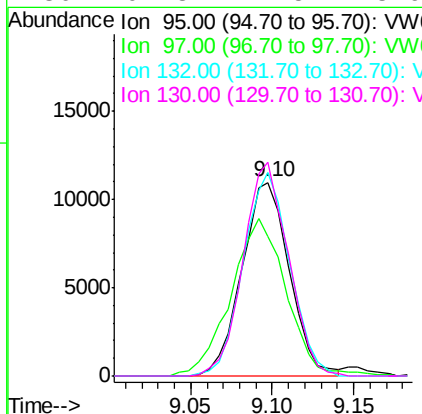
Ion Ratio Lower Upper

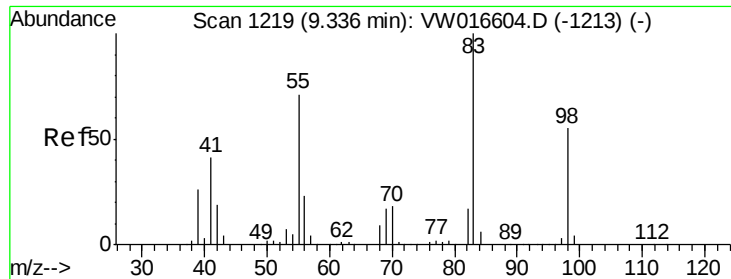
95 100

97 94.3 45.2 84.0#

132 102.7 73.3 136.1

130 104.8 77.5 143.9





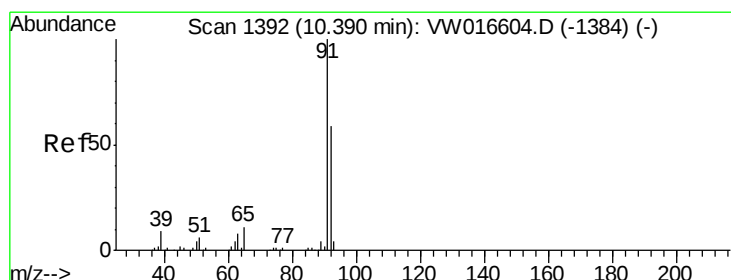
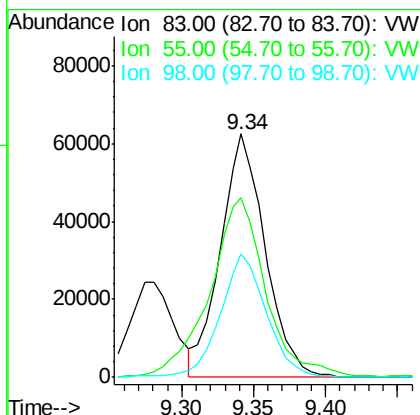
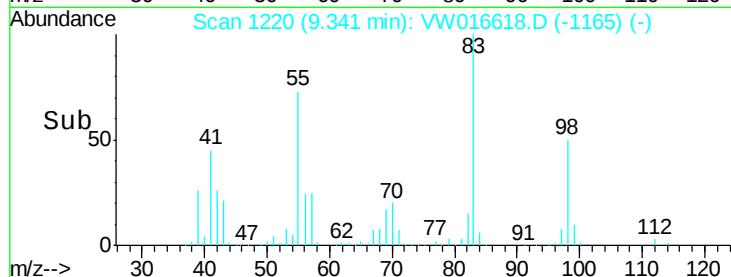
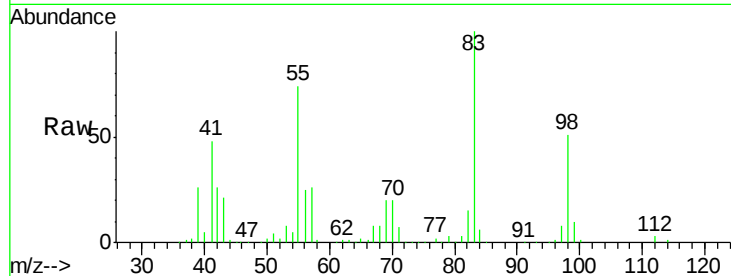
#36
Methvlcvclohexane
Concen: 10.082 ug/L
RT: 9.34 min Scan# 1220
Delta R.T. 0.01 min
Lab File: VW016618.D
Acq: 22 Sep 2020 18:16

Instrument :
MSVOA_W
ClientSampleId :
BG3W9

Tot Ion	Ratio	Lower	Upper
83	100		
55	92.3	55.9	83.9#
98	53.0	42.1	63.1

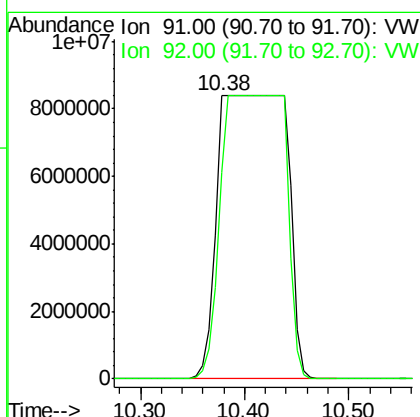
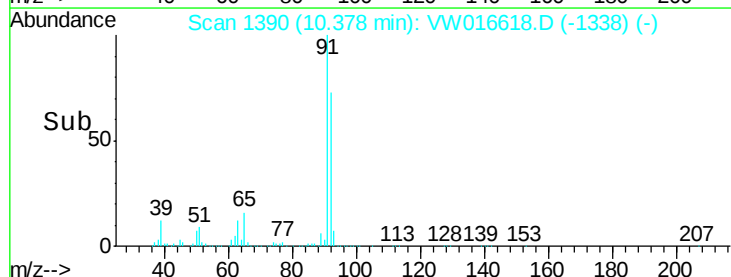
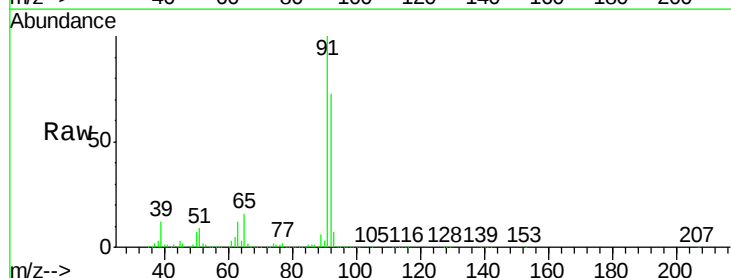
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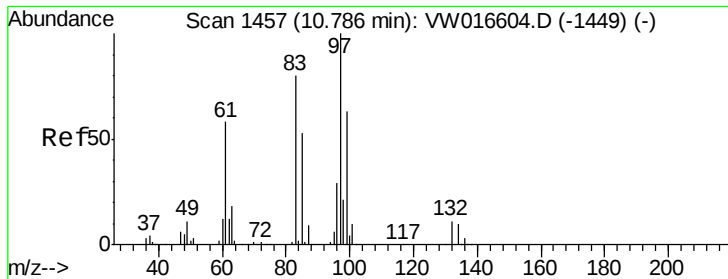
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#44
Toluene
Concen: 1267.521 ug/L m
RT: 10.38 min Scan# 1390
Delta R.T. -0.01 min
Lab File: VW016618.D
Acq: 22 Sep 2020 18:16

Tgt Ion	Ratio	Lower	Upper
91	100		
92	72.9	39.6	73.6





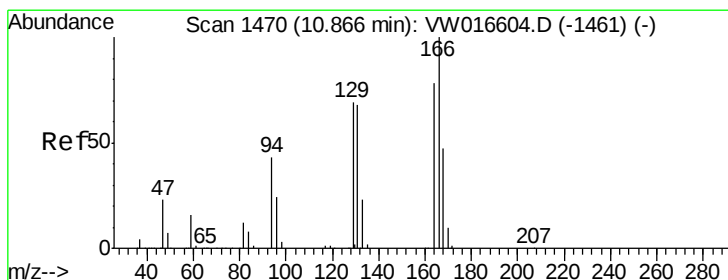
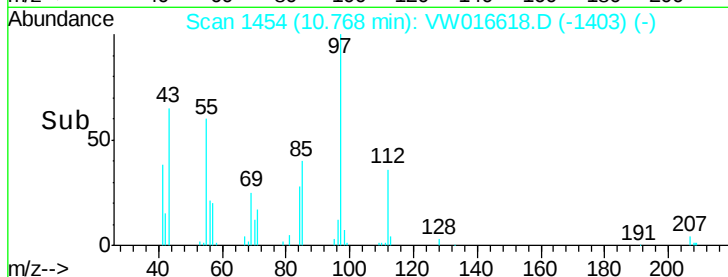
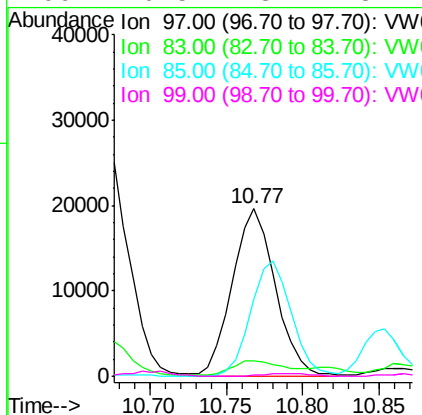
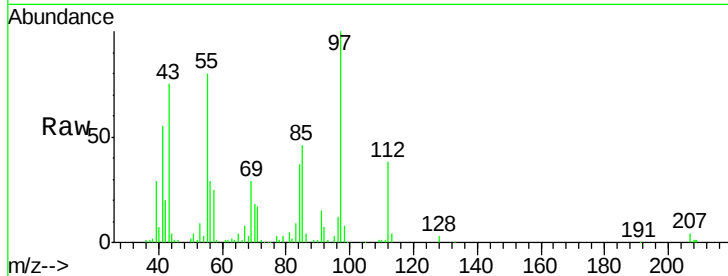
#46
1,1,2-Trichloroethane
Concen: 7.153 ug/L
RT: 10.77 min Scan# 1454
Delta R.T. -0.02 min
Lab File: VW016618.D
Acq: 22 Sep 2020 18:16

Instrument :
MSVOA_W
ClientSampled :
BG3W9

Tot Ion	Ratio	Resp	Lower	Upper
97	100	38147		
83	9.3	55.7	103.5#	
85	45.8	36.8	68.4	
99	0.5	43.7	81.1#	

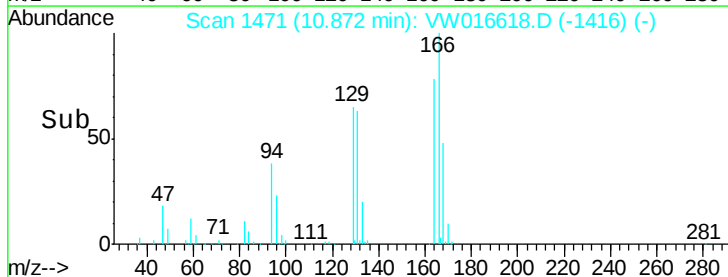
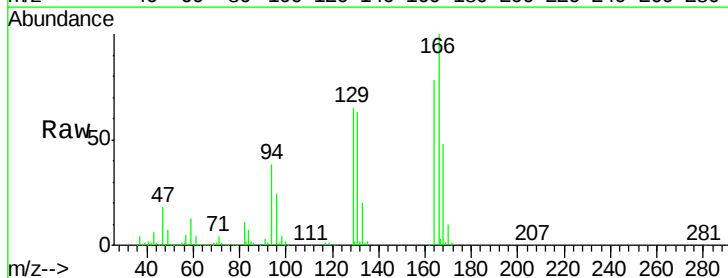
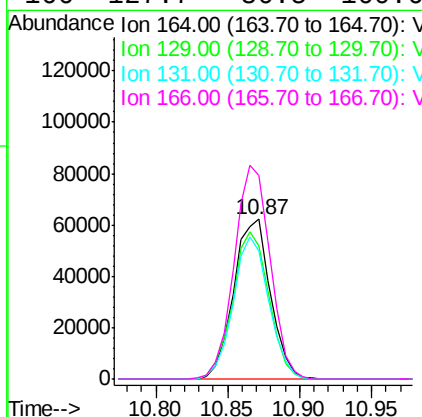
Manual Integrations
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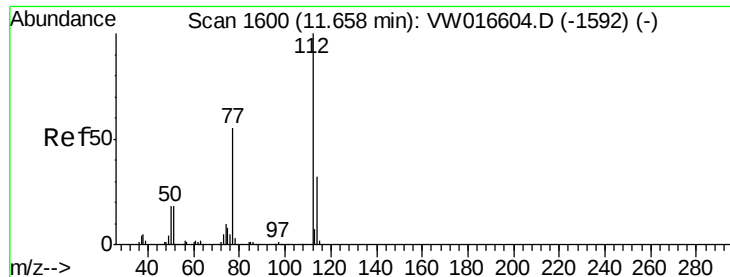
MMDadoda
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#47
Tetrachloroethene
Concen: 15.527 ug/L
RT: 10.87 min Scan# 1471
Delta R.T. 0.01 min
Lab File: VW016618.D
Acq: 22 Sep 2020 18:16

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	110400		
129	83.3	55.6	103.2	
131	80.3	57.2	106.2	
166	127.7	86.5	160.6	





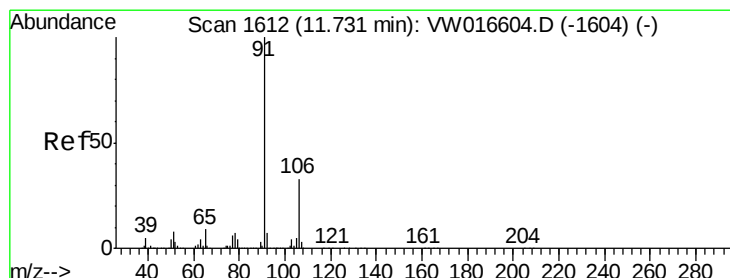
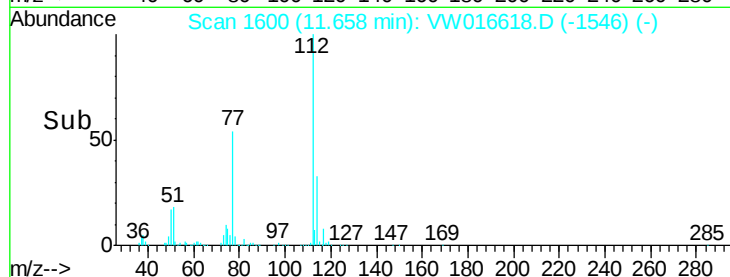
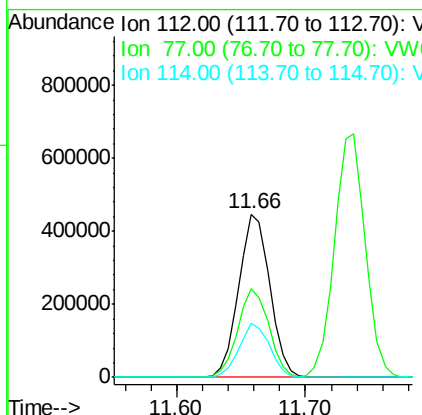
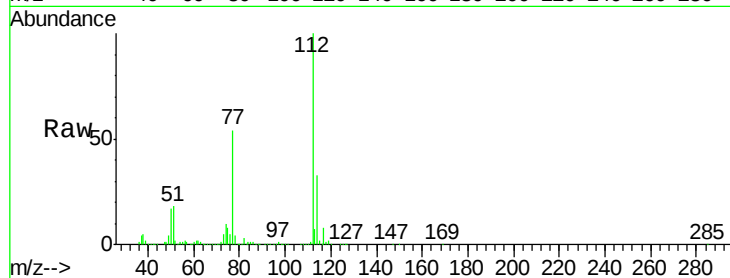
#52
Chlorobenzene
Concen: 36.321 ug/L
RT: 11.66 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VW016618.D
Acq: 22 Sep 2020 18:16

Instrument :
MSVOA_W
ClientSampleId :
BG3W9

Tot Ion	Ratio	Lower	Upper
112	100		
77	54.5	43.1	64.7
114	32.8	22.3	41.3

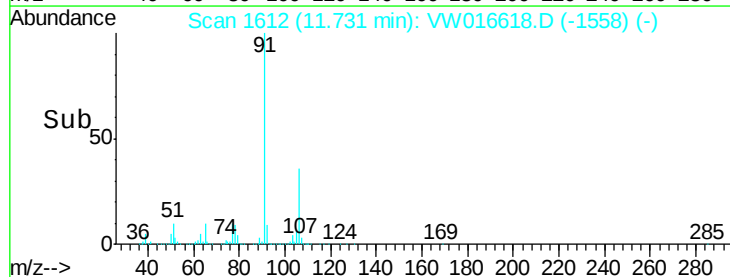
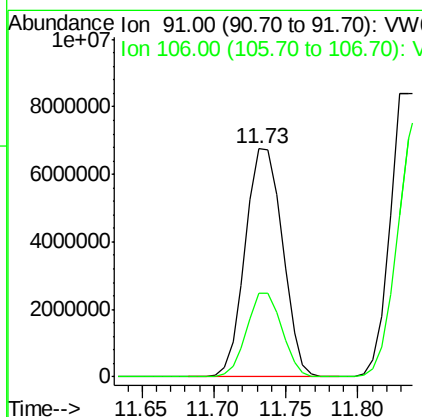
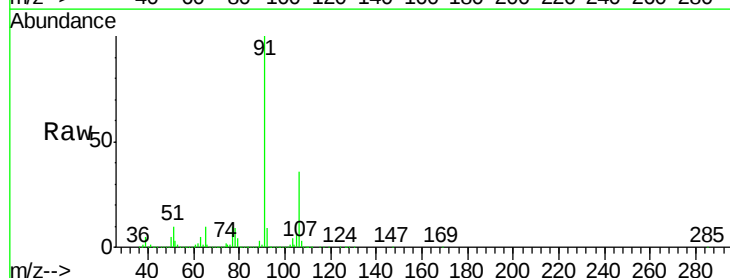
Manual Integrations
APPROVED

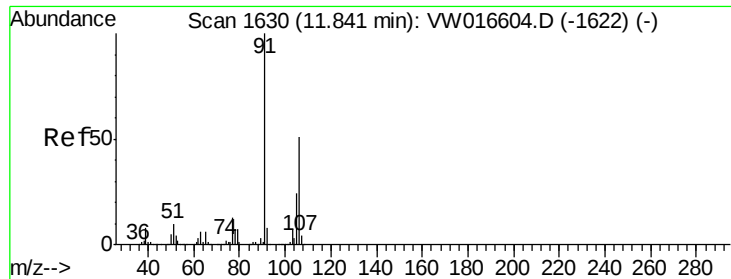
MMDadoda
9/28/2020 3:16:33 PM



#53
Ethylbenzene
Concen: 349.332 ug/L
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW016618.D
Acq: 22 Sep 2020 18:16

Tgt Ion	Ratio	Lower	Upper
91	100		
106	36.4	20.7	38.5





#54

m,p-Xylene

Concen: 1203.307 ug/L m

RT: 11.84 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VW016618.D

Acq: 22 Sep 2020 18:16

Instrument :

MSVOA_W

ClientSampleId :

BG3W9

Tot Ion:106 Resp:16371438

Ion Ratio Lower Upper

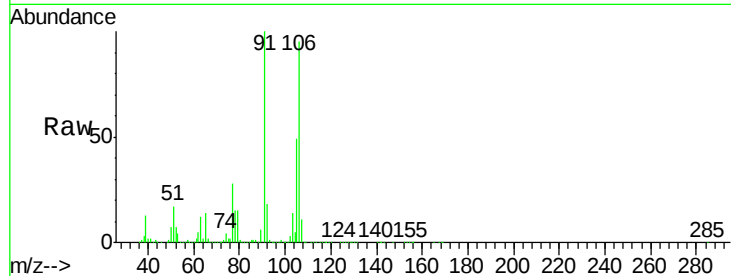
106 100

91 105.0 139.7 259.5#

Manual Integrations
APPROVED

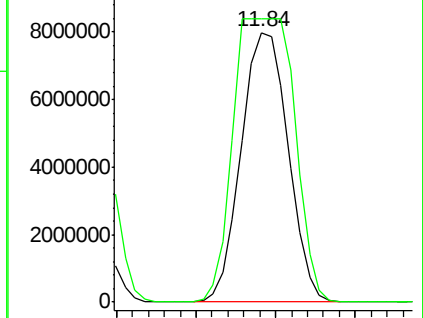
MMDadoda

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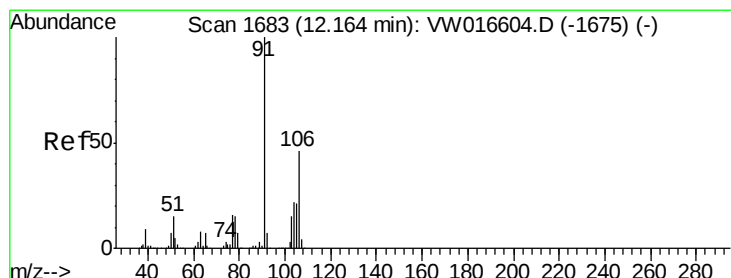
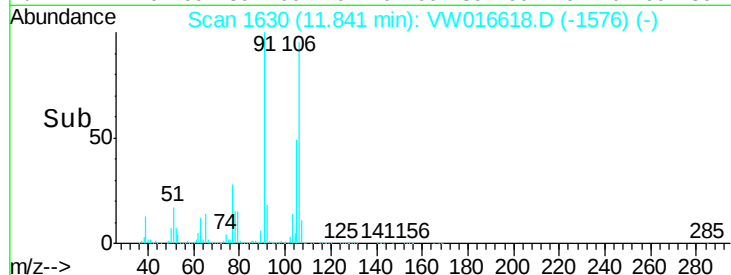


Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



Time--> 11.75 11.80 11.85 11.90



#55

o-xylene

Concen: 688.518 ug/L

RT: 12.17 min Scan# 1684

Delta R.T. 0.01 min

Lab File: VW016618.D

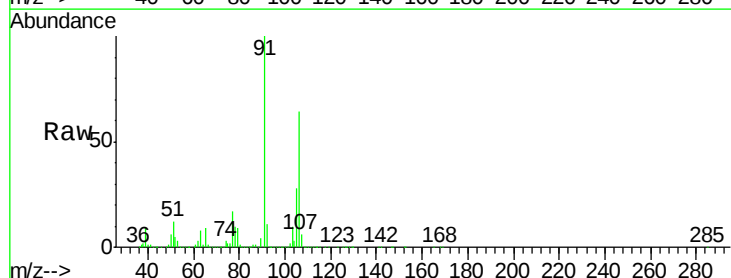
Acq: 22 Sep 2020 18:16

Tgt Ion:106 Resp: 8974382

Ion Ratio Lower Upper

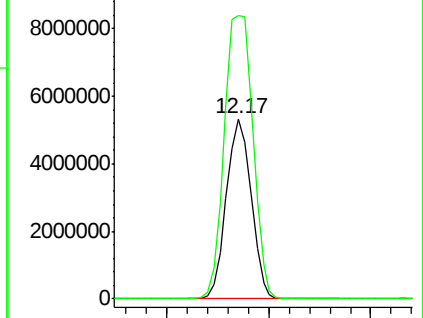
106 100

91 157.5 144.8 268.8

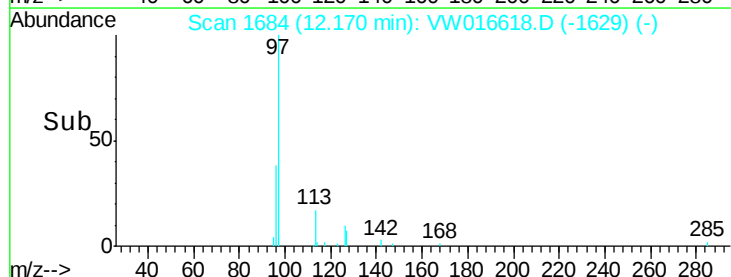


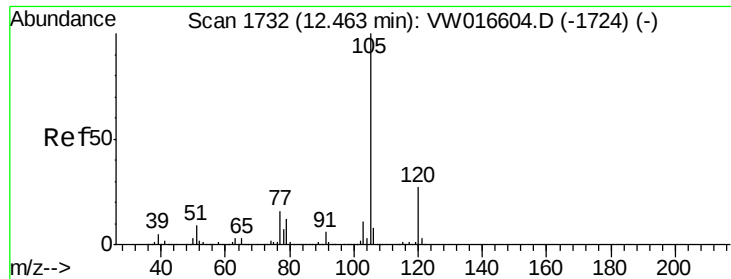
Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



Time--> 12.10 12.20 12.30





#57

Isopropylbenzene

Concen: 191.684 ug/L

RT: 12.47 min Scan# 1733

Delta R.T. 0.01 min

Lab File: VW016618.D

Acq: 22 Sep 2020 18:16

Instrument :

MSVOA_W

ClientSampled :

BG3W9

Tot Ion:105 Resp: 6827069

Ion Ratio Lower Upper

105 100

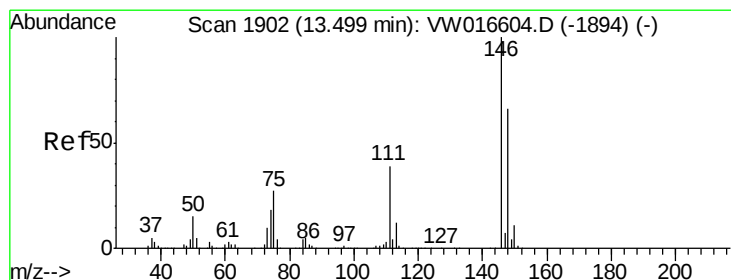
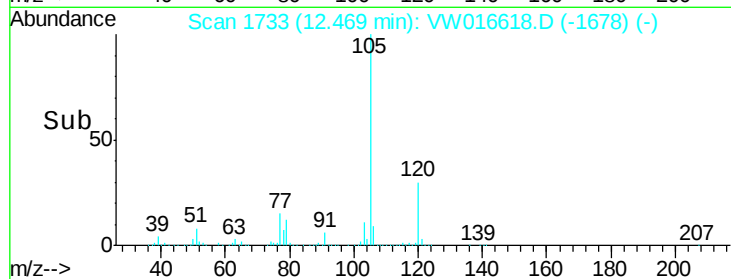
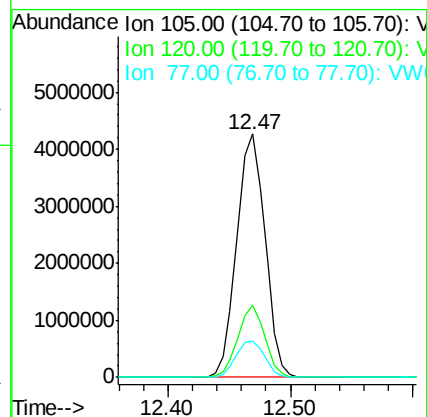
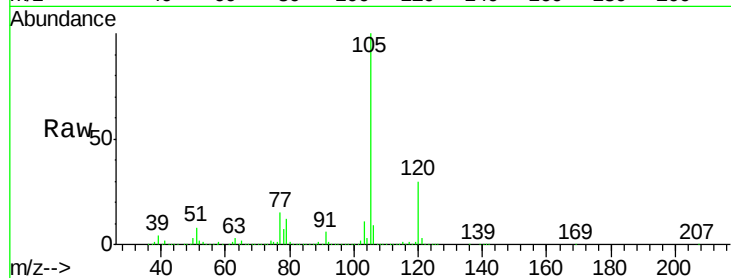
120 28.2 21.8 32.8

77 15.2 12.2 18.2

Manual Integrations
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#63

1,3-Dichlorobenzene

Concen: 5.615 ug/L

RT: 13.51 min Scan# 1903

Delta R.T. 0.01 min

Lab File: VW016618.D

Acq: 22 Sep 2020 18:16

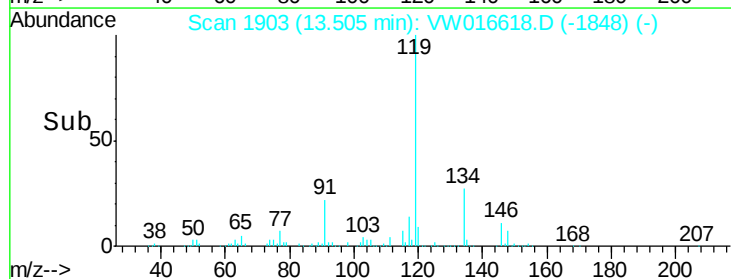
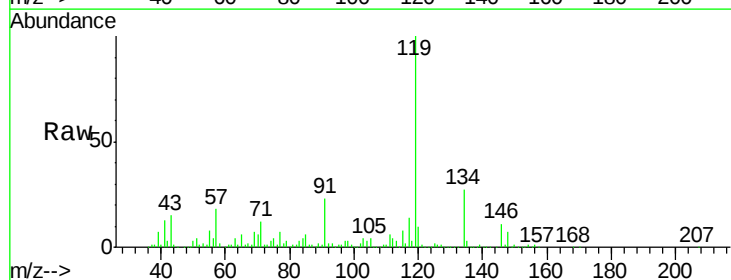
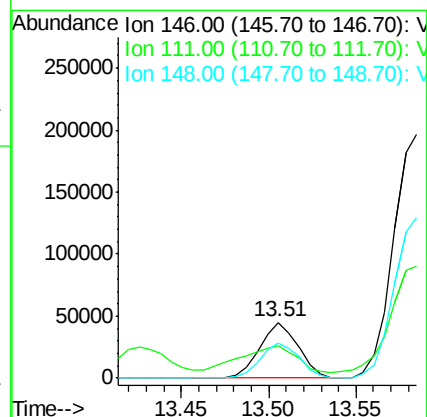
Tgt Ion:146 Resp: 68211

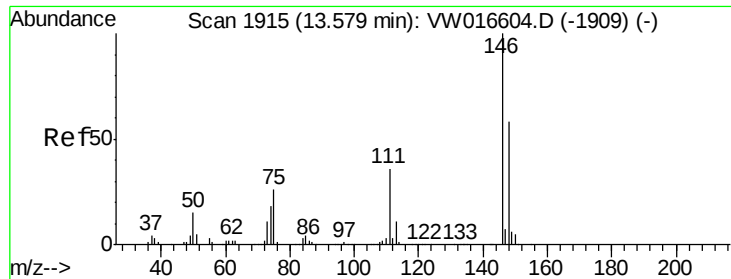
Ion Ratio Lower Upper

146 100

111 57.0 25.0 46.4#

148 61.8 44.0 81.8





#64

1,4-Dichlorobenzene

Concen: 26.922 ug/L

RT: 13.58 min Scan# 1916

Delta R.T. 0.01 min

Lab File: VW016618.D

Acq: 22 Sep 2020 18:16

Instrument :

MSVOA_W

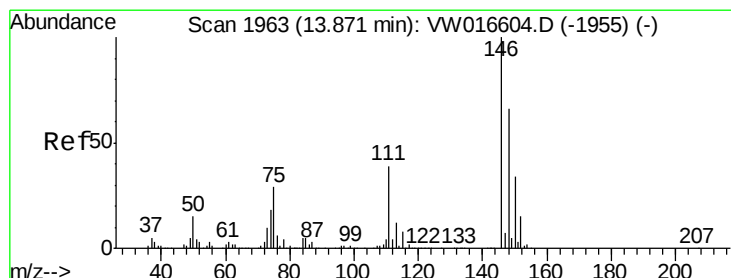
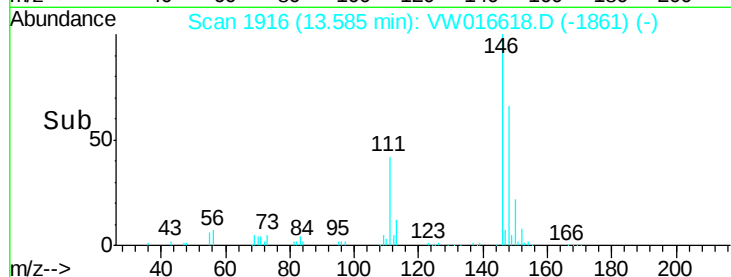
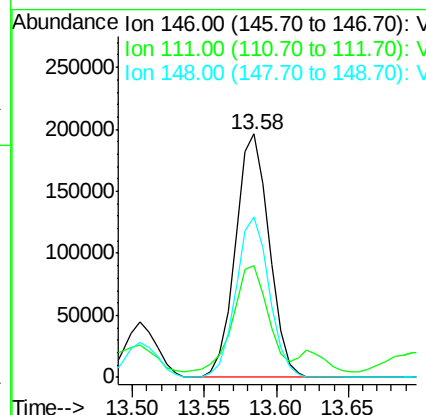
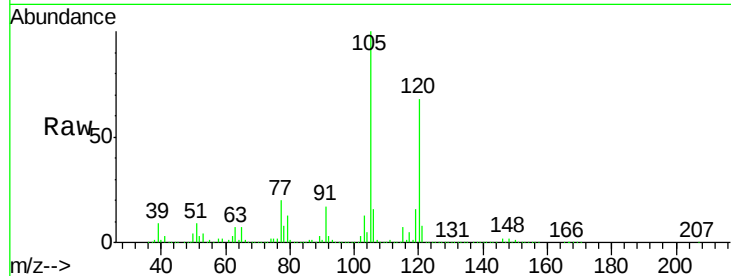
ClientSampled :

BG3W9

Tot Ion:	146	Resp:	320291
Ion Ratio	Lower	Upper	
146	100		
111	46.1	25.1	46.5
148	65.9	42.3	78.5

Manual Integrations
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#65

1,2-Dichlorobenzene

Concen: 84.516 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. -0.00 min

Lab File: VW016618.D

Acq: 22 Sep 2020 18:16

Tgt Ion:	146	Resp:	917422
Ion Ratio	Lower	Upper	
146	100		
111	43.0	31.4	47.0
148	64.4	49.3	73.9

