

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW101520\
 Data File : VW016901.D
 Acq On : 14 Oct 2020 13:36
 Operator : SY/VA
 Sample : L4382-11
 Misc : 5.53G/10ML/MSVOA W/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 BG3X9

Manual Integrations
 APPROVED

MMDadoda
 10/19/2020 10:59:08 AM

Quant Time: Oct 15 08:56:13 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM100720S.M
 Quant Title : VOC Analysis
 QLast Update : Thu Oct 15 08:29:28 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.86	114	190092	25.00	ug/L	0.02
28) Chlorobenzene-d5	11.66	117	87604	25.00	ug/L	0.03
60) 1,4-Dichlorobenzene-d4	13.57	152	27633	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	64394	34.34	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	137.36%
7) Chloroethane-d5	2.89	69	54568	34.69	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	138.76%
10) 1,1-Dichloroethene-d2	4.04	63	96543	24.24	ug/L	0.01
Spiked Amount	25.000	Range	45 - 110	Recovery	=	96.96%
20) 2-Butanone-d5	7.09	46	27553	64.87	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	129.74%
24) Chloroform-d	7.66	84	117988	29.41	ug/L	0.01
Spiked Amount	25.000	Range	40 - 150	Recovery	=	117.64%
26) 1,2-Dichloroethane-d4	8.32	65	69838	36.05	ug/L	0.01
Spiked Amount	25.000	Range	70 - 130	Recovery	=	144.20%#
29) Benzene-d6	8.29	84	209544	52.67	ug/L	0.02
Spiked Amount	25.000	Range	20 - 135	Recovery	=	210.68%#
33) 1,2-Dichloropropane-d6	9.29	67	58725	54.92	ug/L	0.01
Spiked Amount	25.000	Range	70 - 120	Recovery	=	219.68%#
37) Toluene-d8	10.35	98	126590	33.72	ug/L	0.02
Spiked Amount	25.000	Range	30 - 130	Recovery	=	134.88%#
38) trans-1,3-Dichloropropene-	10.59	79	24913	52.83	ug/L	0.01
Spiked Amount	25.000	Range	30 - 135	Recovery	=	211.32%#
39) 2-Hexanone-d5	0.00	63	0d	0.00	ug/L	
Spiked Amount	50.000	Range	20 - 135	Recovery	=	0.00%#
48) 1,1,2,2-Tetrachloroethane-	12.70	84	37559	43.48	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	173.92%#
61) 1,2-Dichlorobenzene-d4	13.86	152	21694	24.75	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	99.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	2.36	62	2273	0.874	ug/L #	1
12) 1,1-Dichloroethene	4.06	96	44249	18.004	ug/L	89
13) Acetone	4.13	43	5382	16.744	ug/L	93
14) Carbon disulfide	4.40	76	13548	1.922	ug/L #	93
16) Methylene chloride	4.94	84	9687	3.693	ug/L	96
18) trans-1,2-Dichloroethene	5.46	96	2982m	1.161	ug/L	
22) cis-1,2-Dichloroethene	7.20	96	5982m	2.283	ug/L	
30) Cyclohexane	7.98	56	3827	2.107	ug/L #	50
34) Benzene	8.35	78	111835	23.772	ug/L	100
35) Trichloroethene	9.11	95	2649067	1990.715	ug/L	99
36) Methylcyclohexane	9.35	83	6897m	3.083	ug/L	
44) Toluene	10.40	91	62517	11.979	ug/L	97
47) Tetrachloroethene	10.87	164	51215537m	41513.466	ug/L	
52) Chlorobenzene	11.69	112	6167	1.761	ug/L	98
53) Ethylbenzene	11.76	91	38292	6.541	ug/L	98
54) m,p-Xylene	11.86	106	68867	30.245	ug/L	96
55) o-xylene	12.18	106	48371	22.234	ug/L	100

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Quant Title : VOC Analysis
QLast Update : Thu Oct 15 08:29:28 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) Isopropylbenzene	12.48	105	28861	4.845	ug/L	97
63) 1,3-Dichlorobenzene	13.51	146	3524	2.004	ug/L #	12
64) 1,4-Dichlorobenzene	13.58	146	82378	46.838	ug/L #	84
65) 1,2-Dichlorobenzene	13.88	146	129121	82.002	ug/L	97

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

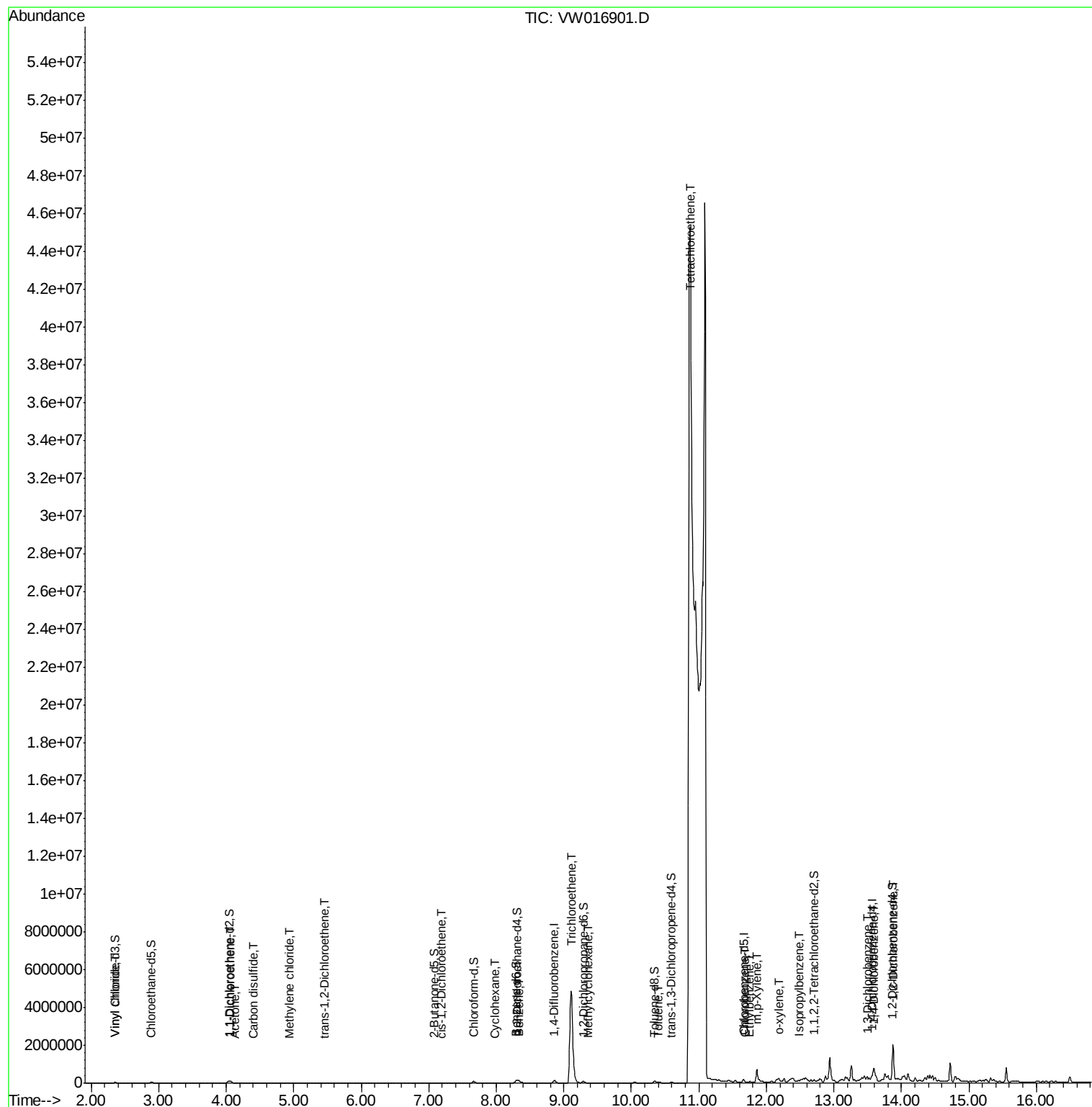
Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW101520\
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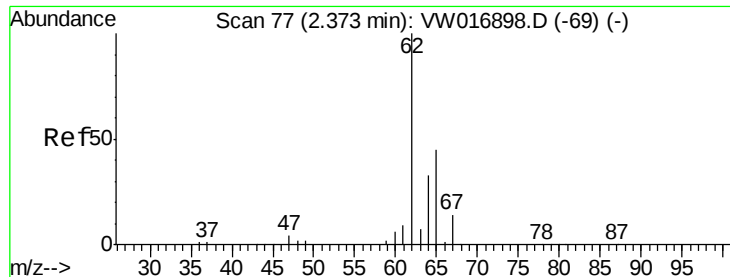
Instrument :
MSVOA_W
ClientSampleId :
BG3X9

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QLast Update : Thu Oct 15 08:29:28 2020
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 0.874 ug/L

RT: 2.36 min Scan# 75

Delta R.T. -0.01 min

Lab File: VW016901.D

Acq: 14 Oct 2020 13:36

Instrument :

MSVOA_W

ClientSampled :

BG3X9

Tot Ion: 62 Resp: 2273

Ion Ratio Lower Upper

62 100

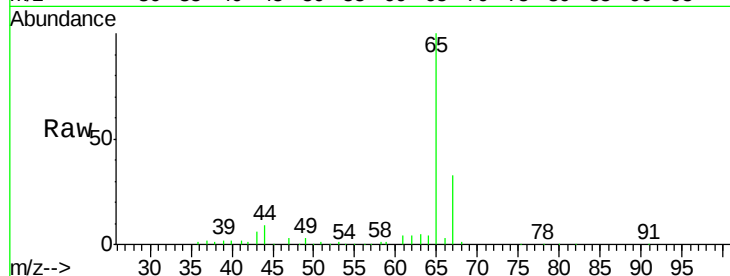
64 93.5 23.5 43.7#

Manual Integrations

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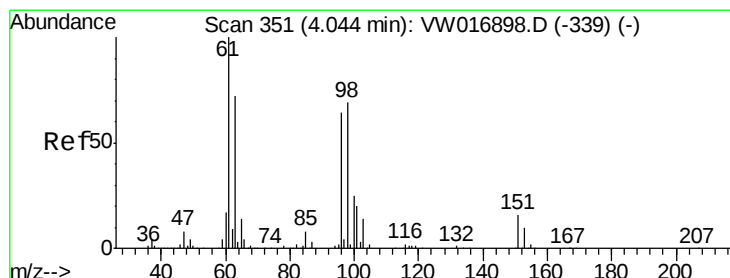
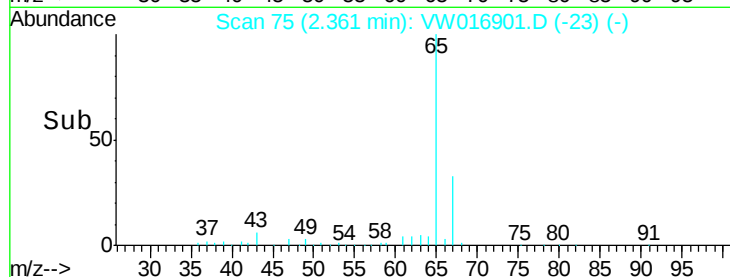
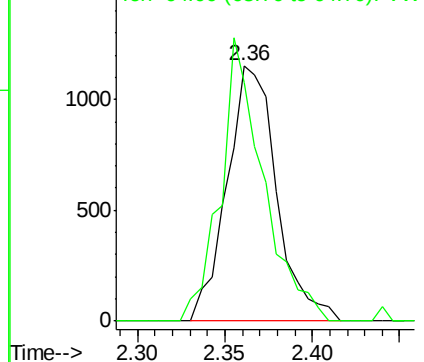
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Abundance Ion 62.00 (61.70 to 62.70): VW

Ion 64.00 (63.70 to 64.70): VW



#12

1,1-Dichloroethene

Concen: 18.004 ug/L

RT: 4.06 min Scan# 354

Delta R.T. 0.02 min

Lab File: VW016901.D

Acq: 14 Oct 2020 13:36

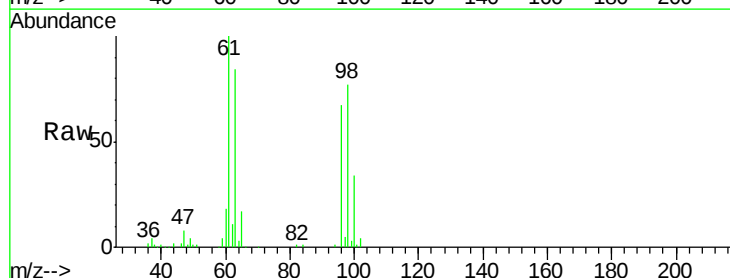
Tgt Ion: 96 Resp: 44249

Ion Ratio Lower Upper

96 100

61 149.7 105.1 195.1

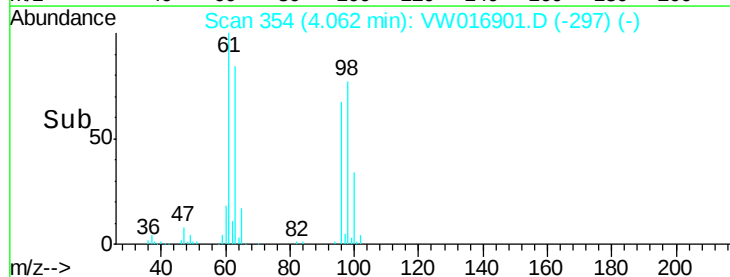
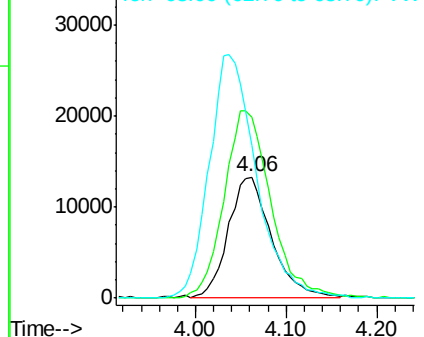
63 126.1 69.9 129.7

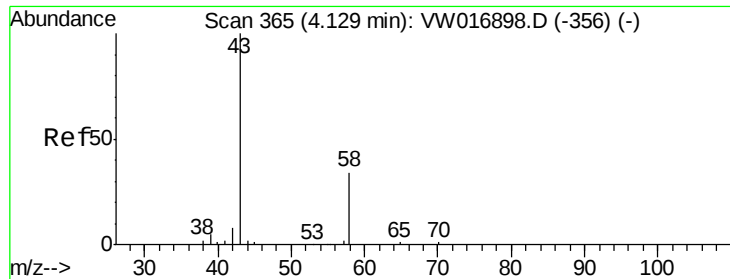


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 16.744 ug/L

RT: 4.13 min Scan# 365

Delta R.T. -0.00 min

Lab File: VW016901.D

Acq: 14 Oct 2020 13:36

Instrument :

MSVOA_W

ClientSampled :

BG3X9

Tot Ion: 43 Resp: 5382

Ion Ratio Lower Upper

43 100

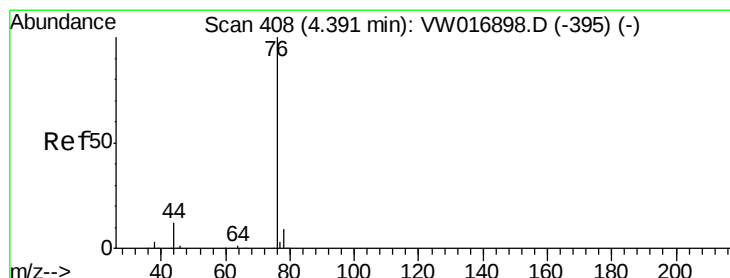
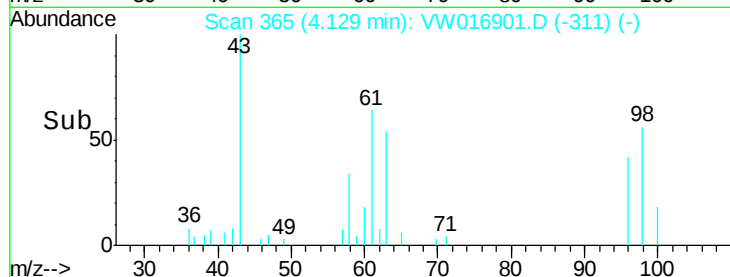
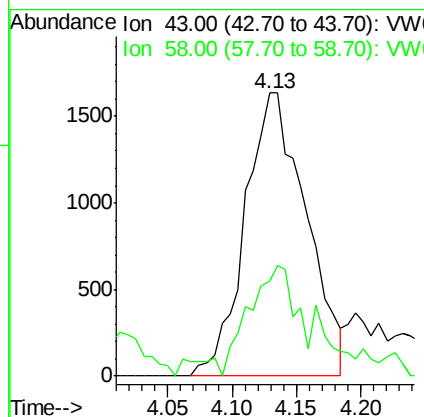
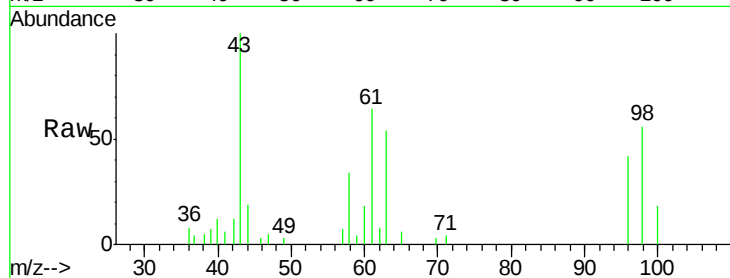
58 30.0 0.0 67.6

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#14

Carbon disulfide

Concen: 1.922 ug/L

RT: 4.40 min Scan# 410

Delta R.T. 0.01 min

Lab File: VW016901.D

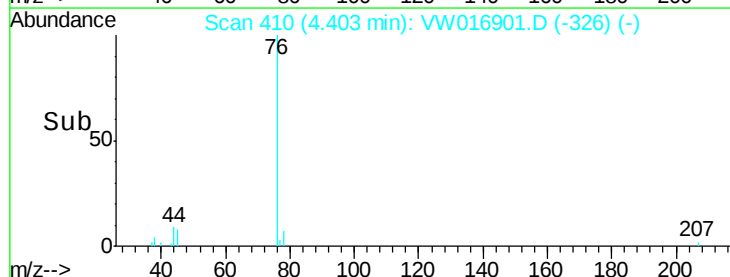
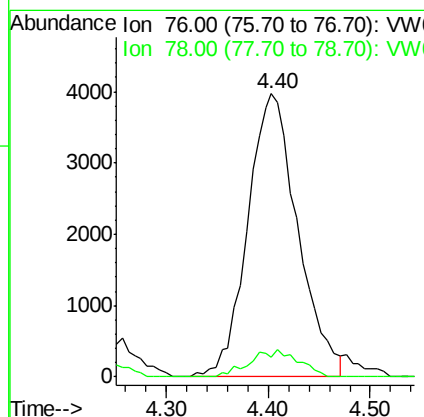
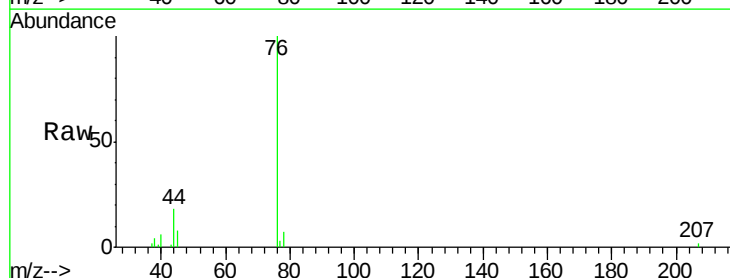
Acq: 14 Oct 2020 13:36

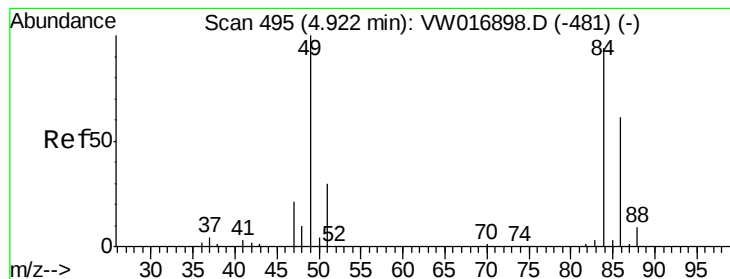
Tgt Ion: 76 Resp: 13548

Ion Ratio Lower Upper

76 100

78 6.8 7.4 11.0#





#16

Methylene chloride

Concen: 3.693 ug/L

RT: 4.94 min Scan# 498

Delta R.T. 0.02 min

Lab File: VW016901.D

Acq: 14 Oct 2020 13:36

Instrument :

MSVOA_W

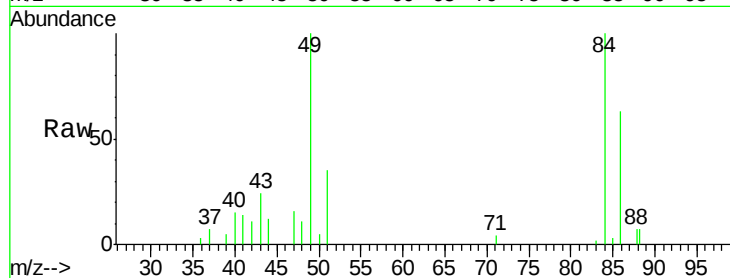
ClientSampled :

BG3X9

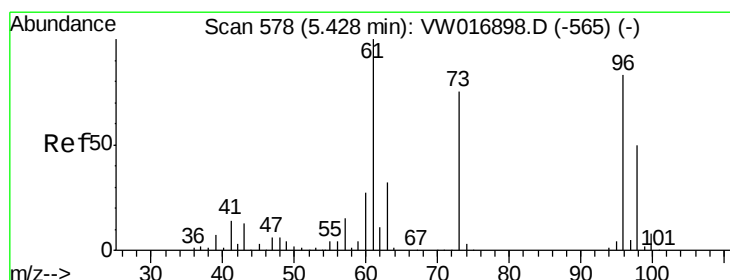
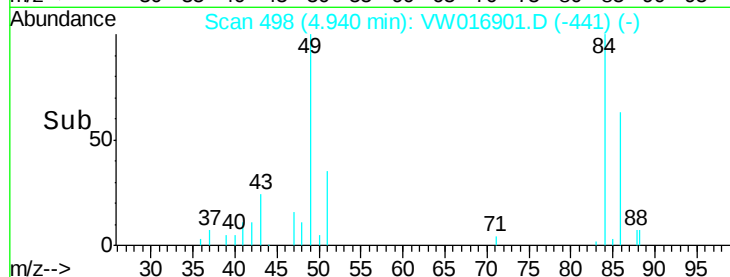
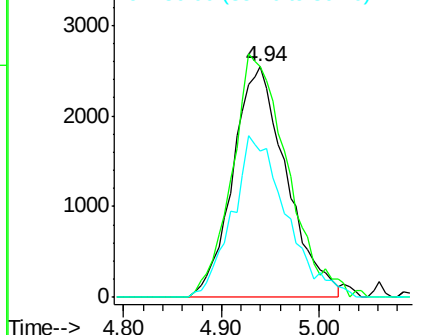
Tot Ion:	84	Resp:	9687
Ion	Ratio	Lower	Upper
84	100		
49	100.3	73.1	135.8
86	63.4	46.0	85.4

Manual Integrations
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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



#18

trans-1,2-Dichloroethene

Concen: 1.161 ug/L

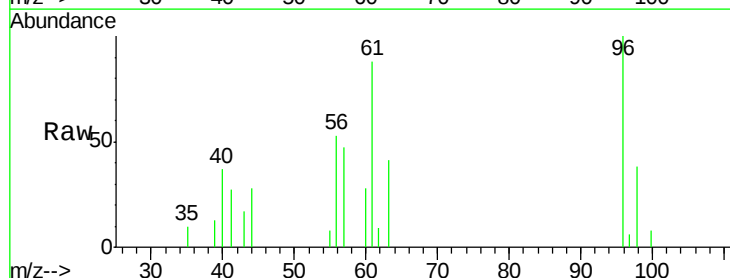
RT: 5.46 min Scan# 583

Delta R.T. 0.03 min

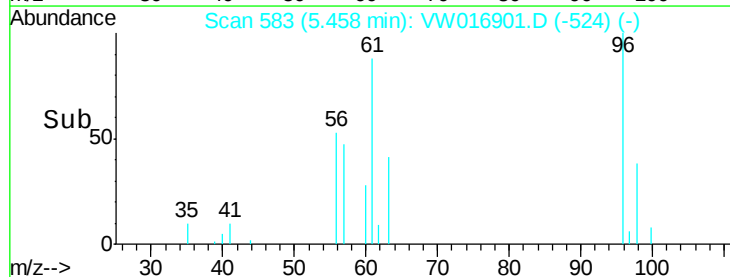
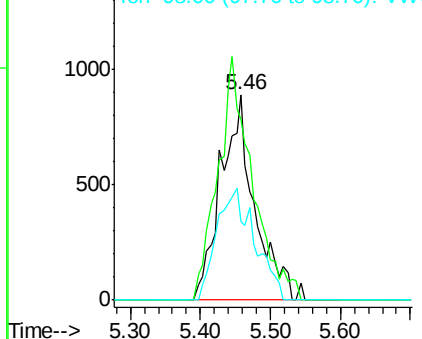
Lab File: VW016901.D

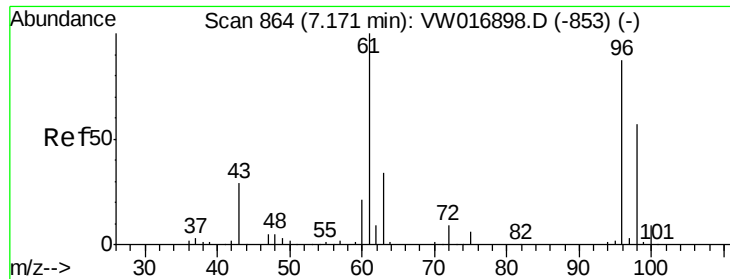
Acq: 14 Oct 2020 13:36

Tgt Ion:	96	Resp:	2982
Ion	Ratio	Lower	Upper
96	100		
61	88.0	82.5	153.3
98	38.3	43.3	80.5#



Abundance Ion 96.00 (95.70 to 96.70): VW
Ion 61.00 (60.70 to 61.70): VW
Ion 98.00 (97.70 to 98.70): VW





#22

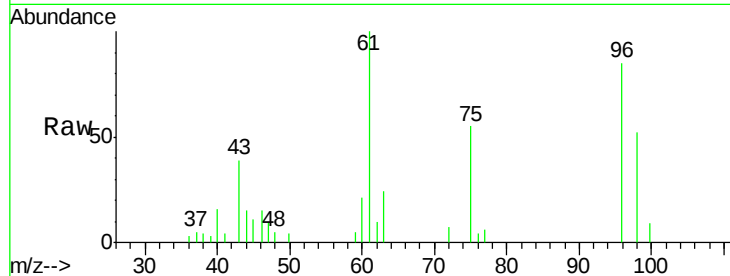
cis-1,2-Dichloroethene
Concen: 2.283 ug/L m
RT: 7.20 min Scan# 868
Delta R.T. 0.02 min
Lab File: VW016901.D
Acq: 14 Oct 2020 13:36

Instrument :
MSVOA_W
ClientSampleId :
BG3X9

Tot Ion	Ratio	Lower	Upper
96	100		
61	117.7	76.0	141.2
98	61.8	42.7	79.3

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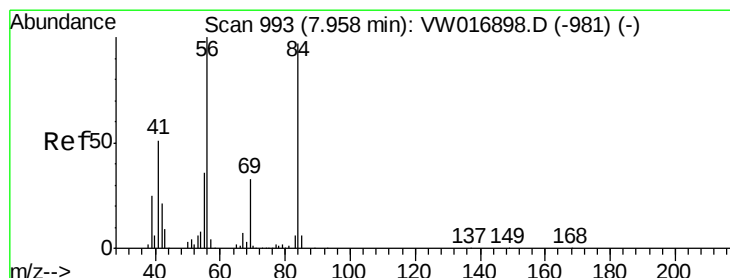
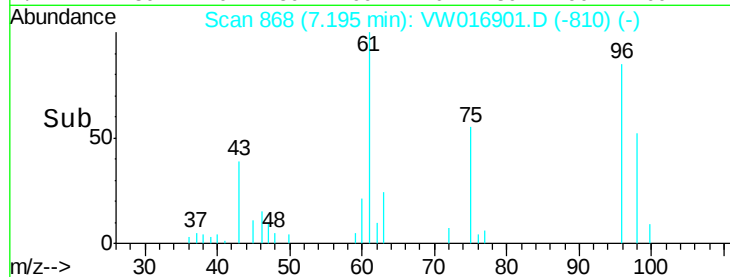
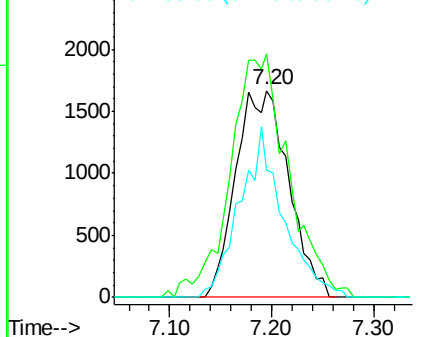


Abundance

Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

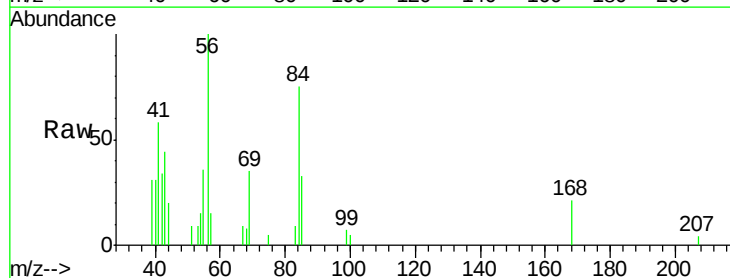
Ion 98.00 (97.70 to 98.70): VW



#30

Cyclohexane
Concen: 2.107 ug/L
RT: 7.98 min Scan# 996
Delta R.T. 0.02 min
Lab File: VW016901.D
Acq: 14 Oct 2020 13:36

Tgt Ion	Ratio	Lower	Upper
56	100		
69	17.0	26.1	39.1#
84	42.3	79.3	118.9#

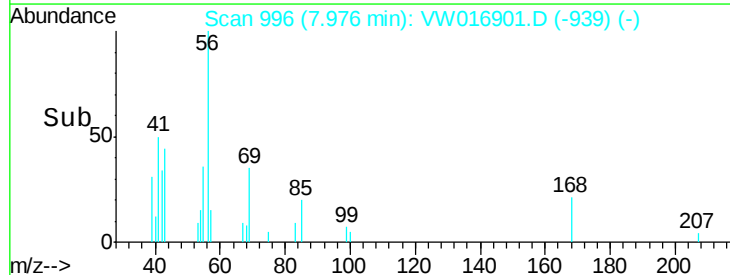
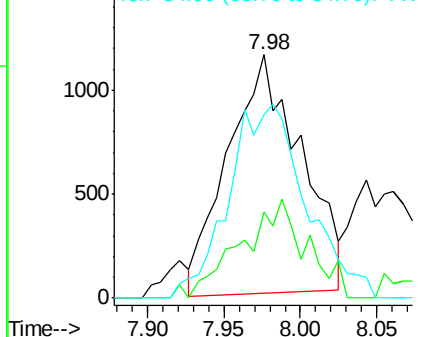


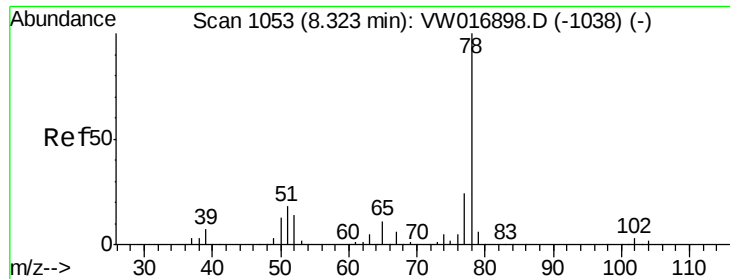
Abundance

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: 23.772 ug/L

RT: 8.35 min Scan# 1057

Delta R.T. 0.02 min

Lab File: VW016901.D

Acq: 14 Oct 2020 13:36

Instrument :

MSVOA_W

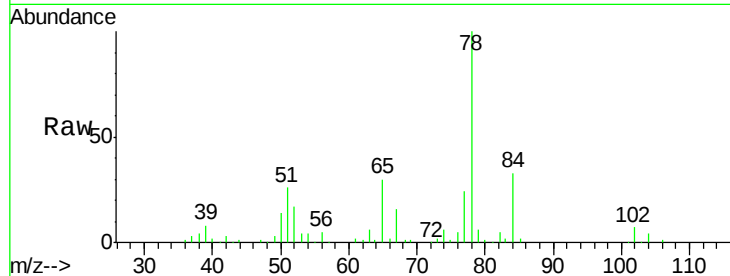
ClientSampleId :

BG3X9

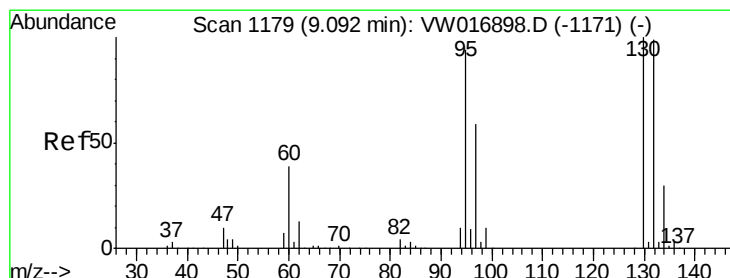
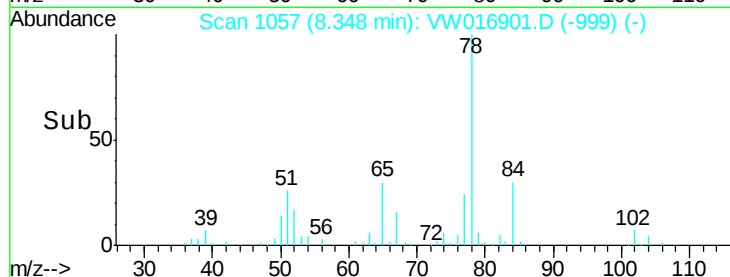
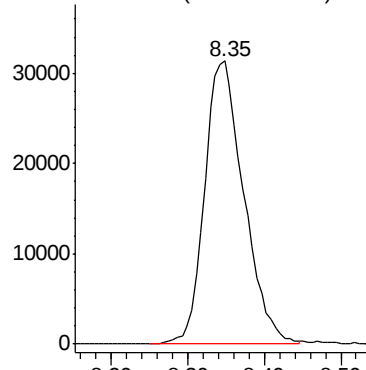
Tgt Ion: 78 Resp: 111835

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Abundance Ion 78.00 (77.70 to 78.70): VW



#35

Trichloroethene

Concen: 1990.715 ug/L

RT: 9.11 min Scan# 1182

Delta R.T. 0.02 min

Lab File: VW016901.D

Acq: 14 Oct 2020 13:36

Tgt Ion: 95 Resp: 2649067

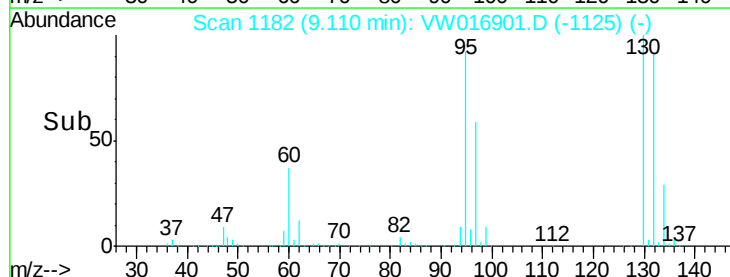
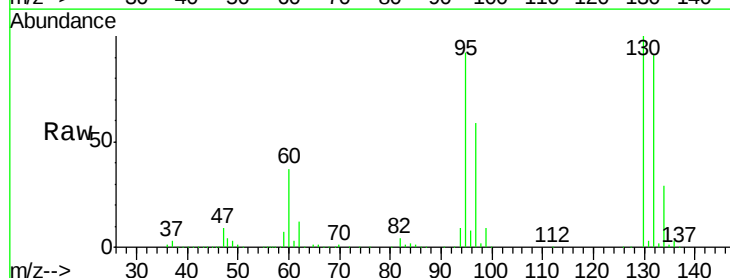
Ion	Ratio	Lower	Upper
95	100		
97	64.8	44.7	83.1
132	104.4	73.8	137.2
130	108.0	77.1	143.3

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

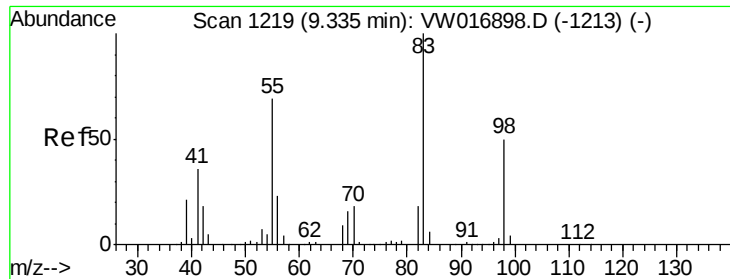


Abundance Ion 95.00 (94.70 to 95.70): VW

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



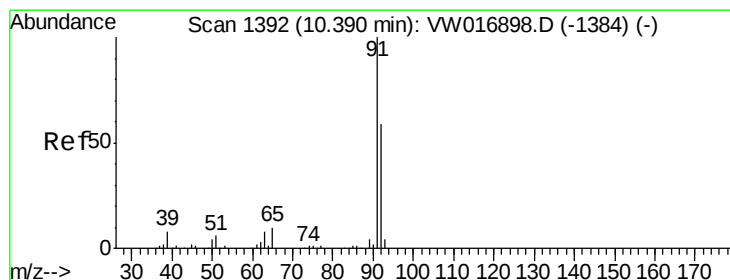
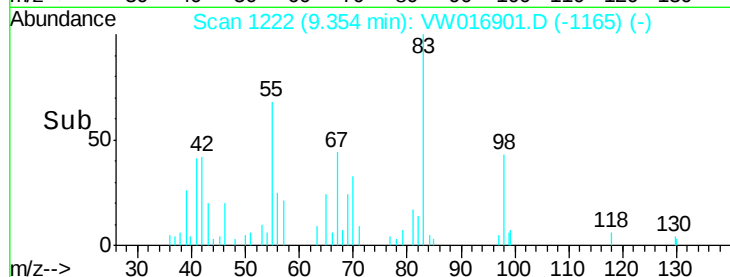
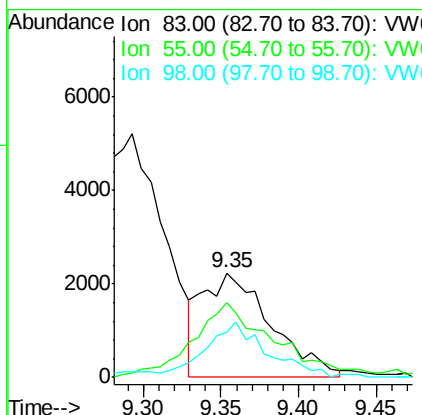
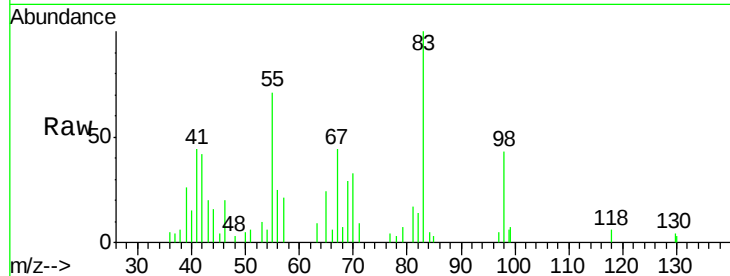
#36
Methylcyclohexane
Concen: 3.083 ug/L m
RT: 9.35 min Scan# 1222
Delta R.T. 0.02 min
Lab File: VW016901.D
Acq: 14 Oct 2020 13:36

Instrument :
MSVOA_W
ClientSampled :
BG3X9

Tot Ion	Ratio	Resp	Lower	Upper
83	100	6897		
55	57.1		54.2	81.4
98	46.7		41.4	62.2

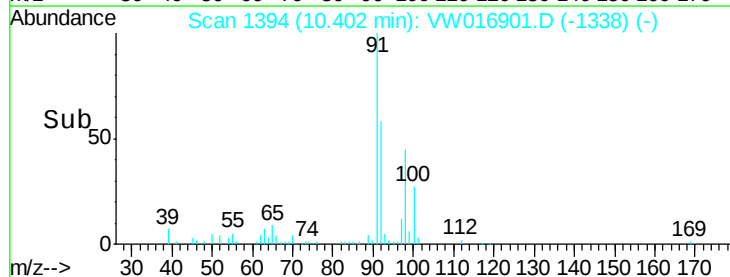
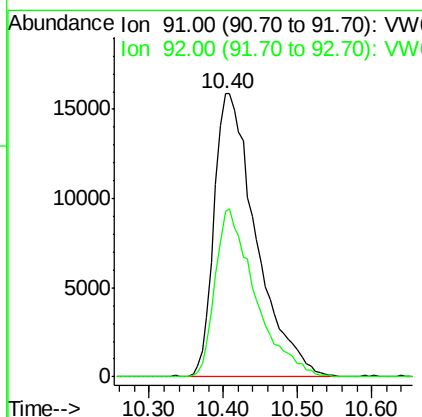
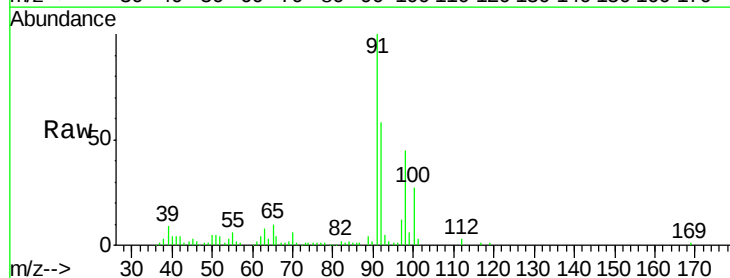
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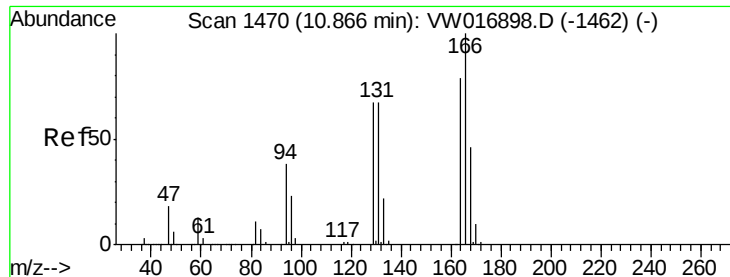
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#44
Toluene
Concen: 11.979 ug/L
RT: 10.40 min Scan# 1394
Delta R.T. 0.01 min
Lab File: VW016901.D
Acq: 14 Oct 2020 13:36

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	62517		
92	58.4		39.4	73.2





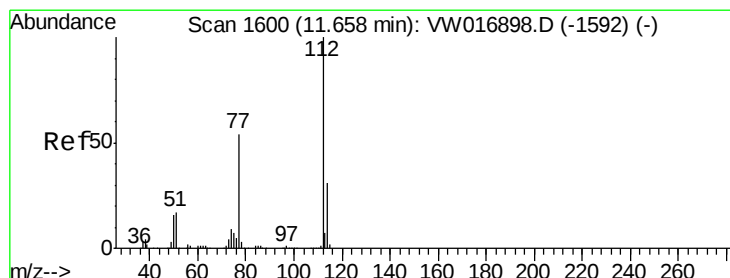
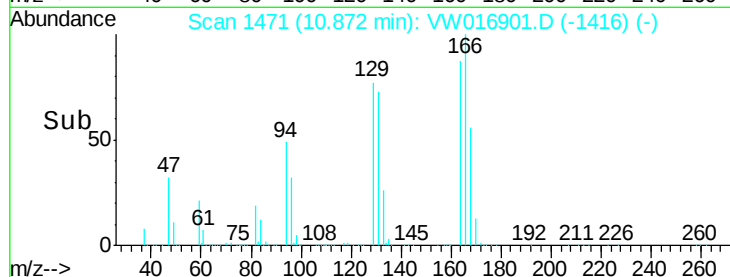
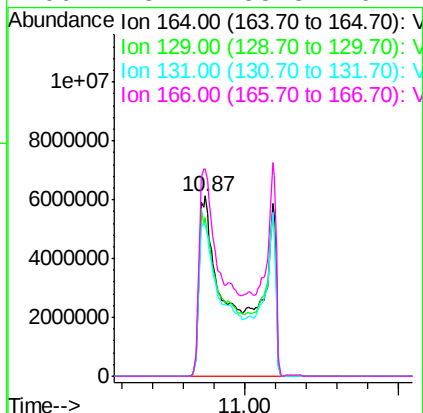
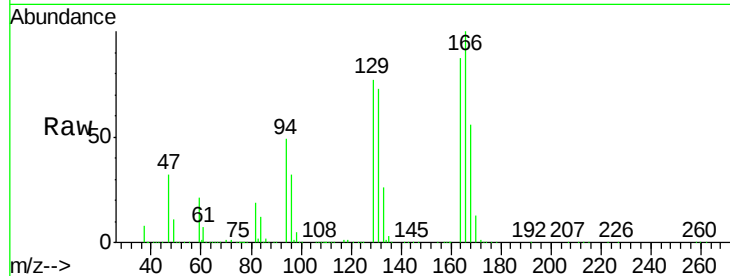
#47
Tetrachloroethene
Concen: 41513.466 ug/L m
RT: 10.87 min Scan# 1471
Delta R.T. 0.01 min
Lab File: VW016901.D
Acq: 14 Oct 2020 13:36

Instrument :
MSVOA_W
ClientSampleId :
BG3X9

Tot Ion:164 Resp:51215537
Ion Ratio Lower Upper
164 100
129 88.5 61.7 114.7
131 84.3 59.7 110.9
166 115.1 88.3 164.1

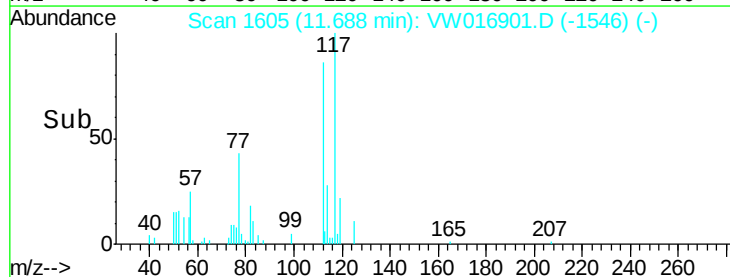
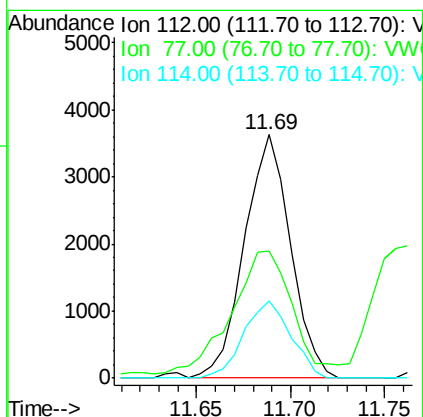
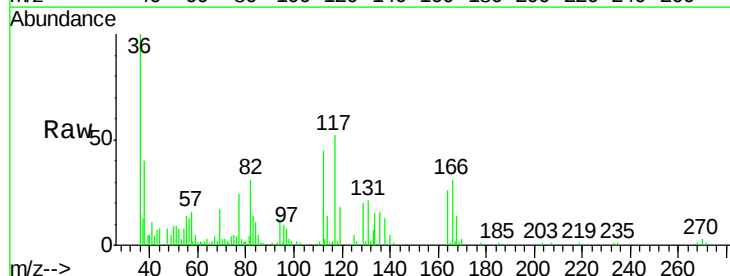
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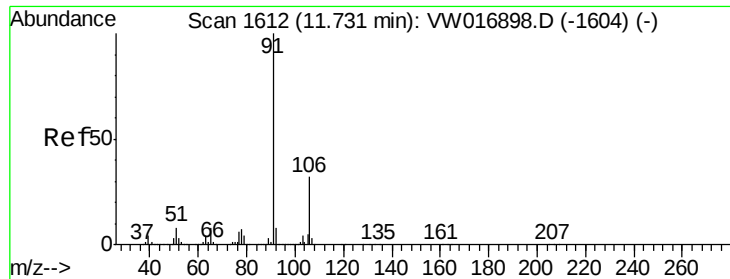
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#52
Chlorobenzene
Concen: 1.761 ug/L
RT: 11.69 min Scan# 1605
Delta R.T. 0.03 min
Lab File: VW016901.D
Acq: 14 Oct 2020 13:36

Tgt Ion:112 Resp: 6167
Ion Ratio Lower Upper
112 100
77 52.5 44.0 66.0
114 31.6 22.3 41.3





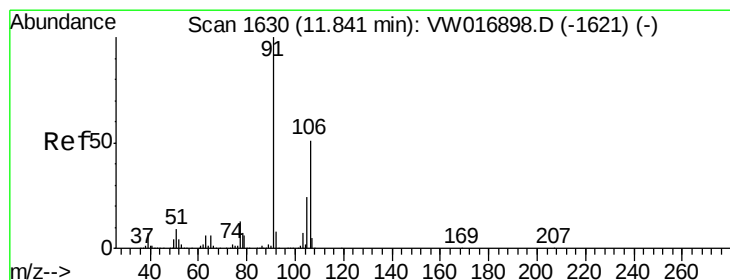
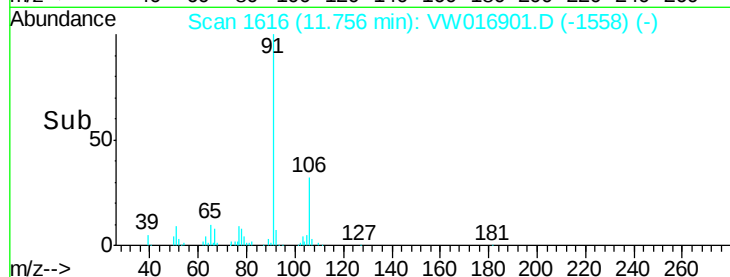
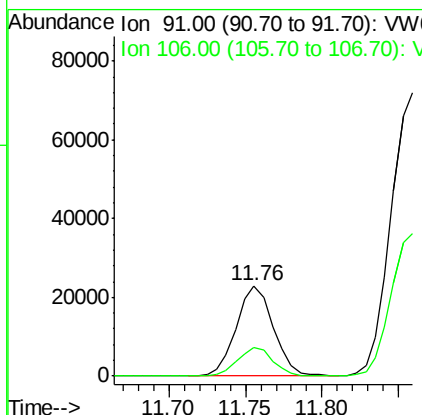
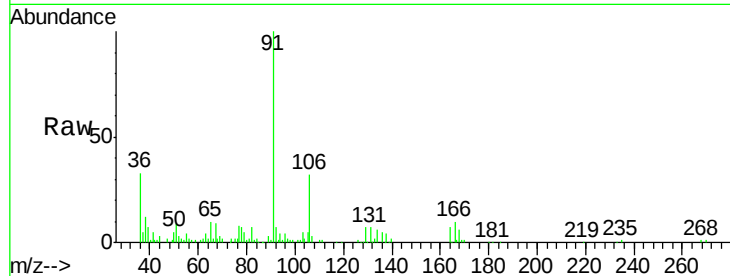
#53
Ethylbenzene
Concen: 6.541 ug/L
RT: 11.76 min Scan# 1616
Delta R.T. 0.02 min
Lab File: VW016901.D
Acq: 14 Oct 2020 13:36

Instrument :
MSVOA_W
ClientSampleId :
BG3X9

Tot Ion: 91 Resp: 38292
Ion Ratio Lower Upper
91 100
106 31.6 22.8 42.4

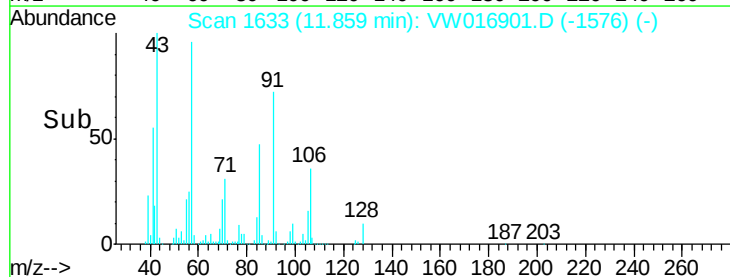
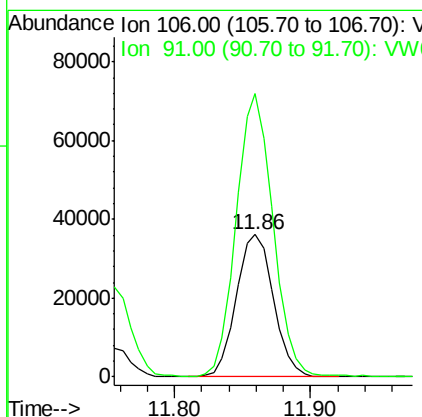
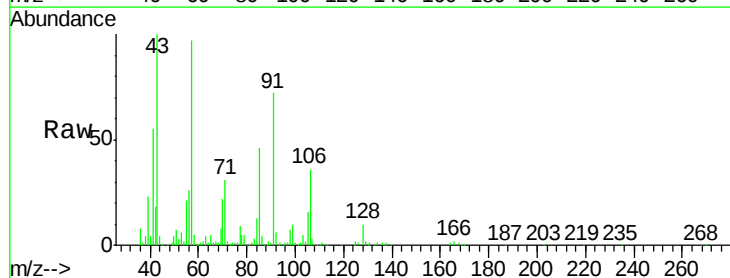
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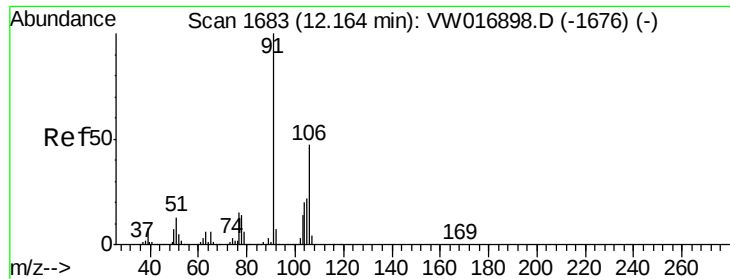
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#54
m,p-Xylene
Concen: 30.245 ug/L
RT: 11.86 min Scan# 1633
Delta R.T. 0.02 min
Lab File: VW016901.D
Acq: 14 Oct 2020 13:36

Tgt Ion: 106 Resp: 68867
Ion Ratio Lower Upper
106 100
91 199.4 135.6 251.8





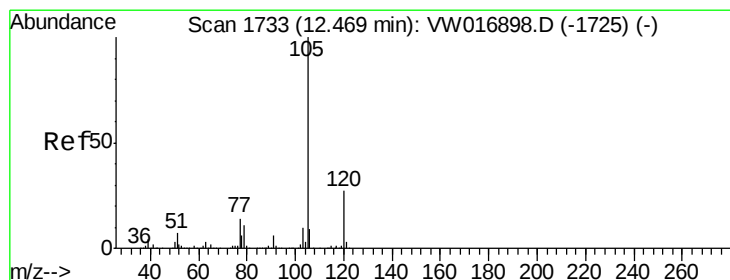
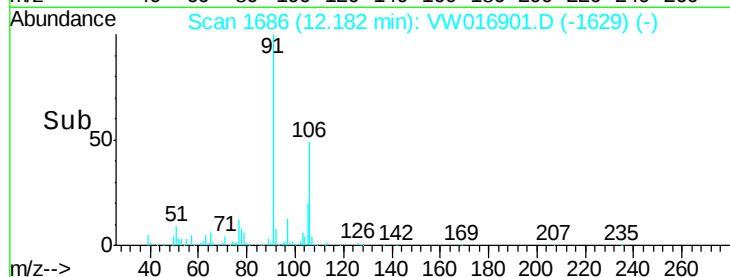
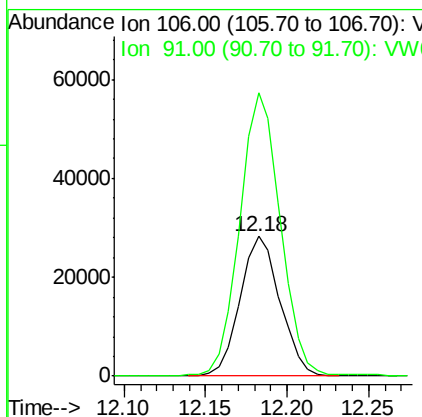
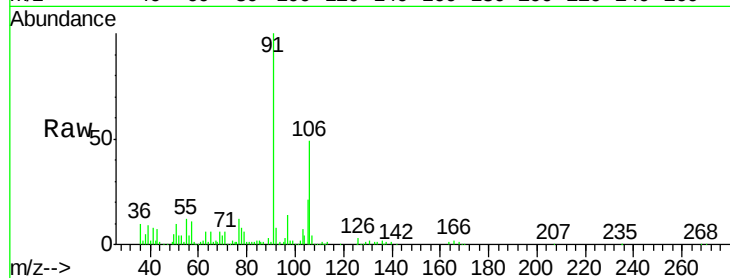
#55
o-xylene
Concen: 22.234 ug/L
RT: 12.18 min Scan# 1686
Delta R.T. 0.02 min
Lab File: VW016901.D
Acq: 14 Oct 2020 13:36

Instrument :
MSVOA_W
ClientSampleId :
BG3X9

Tot Ion:106 Resp: 48371
Ion Ratio Lower Upper
106 100
91 203.0 142.6 264.8

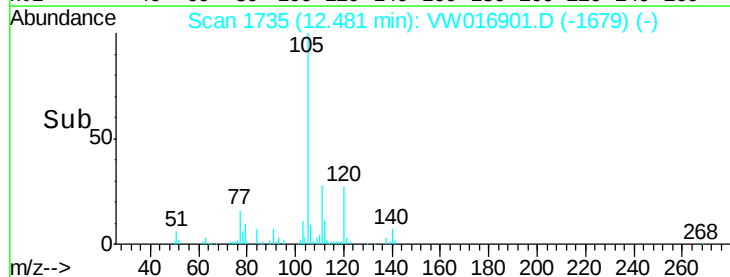
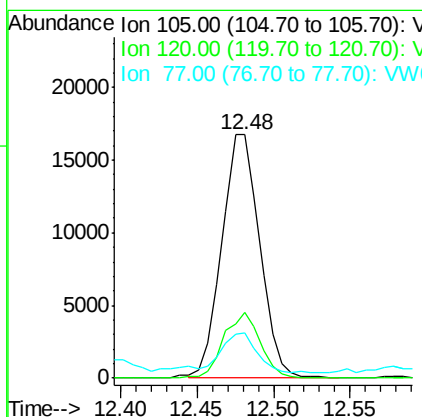
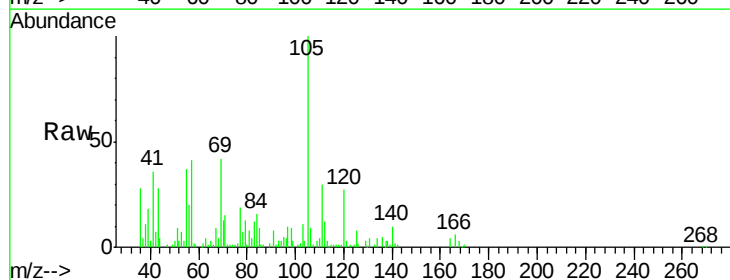
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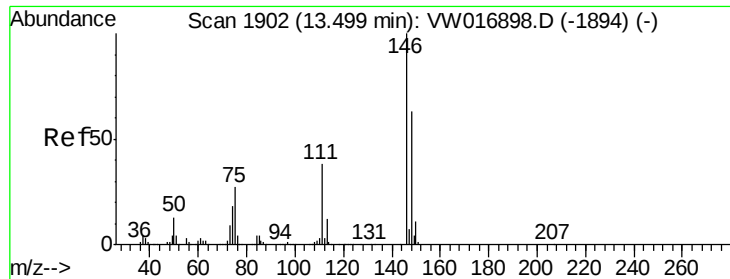
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#57
Isopropylbenzene
Concen: 4.845 ug/L
RT: 12.48 min Scan# 1735
Delta R.T. 0.01 min
Lab File: VW016901.D
Acq: 14 Oct 2020 13:36

Tgt Ion:105 Resp: 28861
Ion Ratio Lower Upper
105 100
120 25.9 21.5 32.3
77 16.2 11.4 17.2





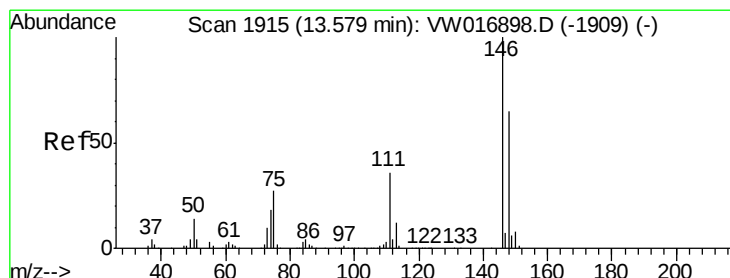
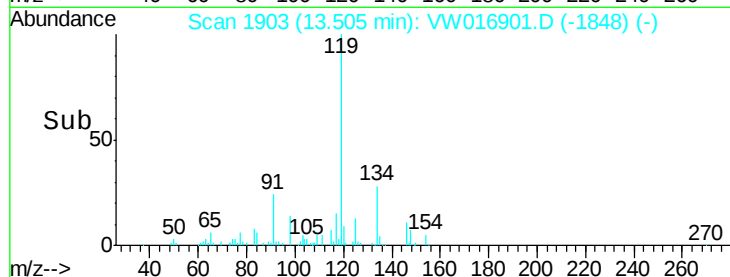
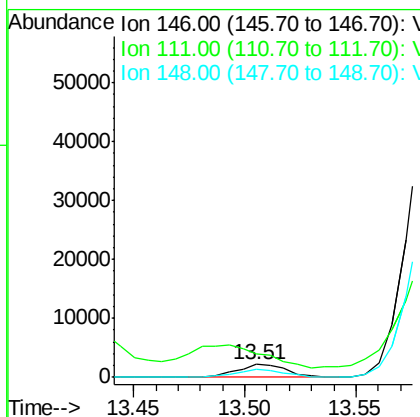
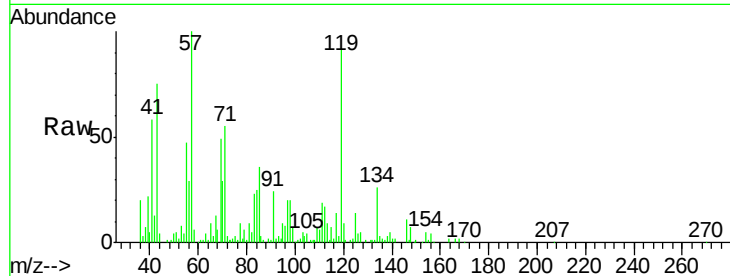
#63
 1,3-Dichlorobenzene
 Concen: 2.004 ug/L
 RT: 13.51 min Scan# 1903
 Delta R.T. 0.01 min
 Lab File: VW016901.D
 Acq: 14 Oct 2020 13:36

Instrument :
 MSVOA_W
 ClientSampled :
 BG3X9

Tot Ion	Ratio	Lower	Upper
146	100		
111	178.3	26.9	49.9#
148	62.4	45.7	84.9

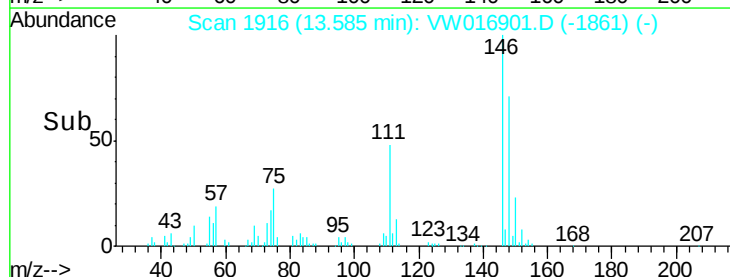
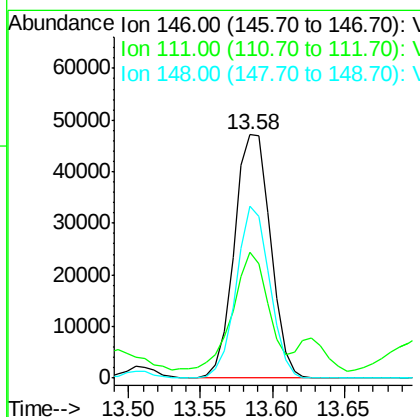
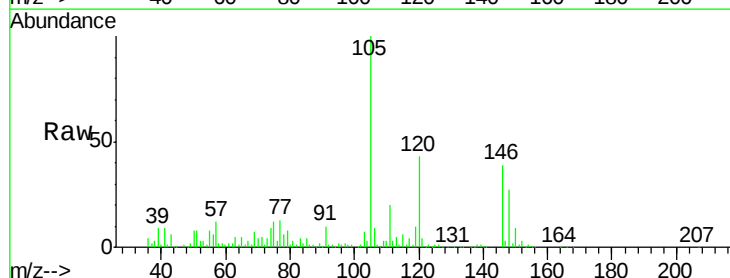
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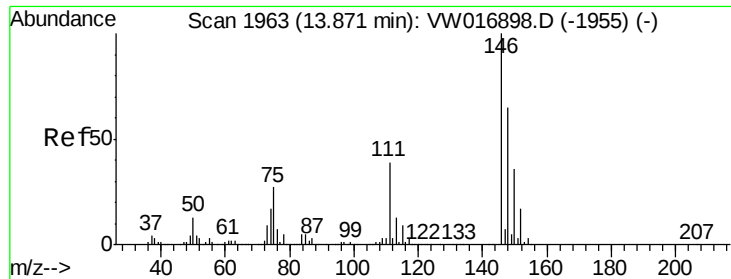
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#64
 1,4-Dichlorobenzene
 Concen: 46.838 ug/L
 RT: 13.58 min Scan# 1916
 Delta R.T. 0.01 min
 Lab File: VW016901.D
 Acq: 14 Oct 2020 13:36

Tgt Ion	Ratio	Lower	Upper
146	100		
111	51.8	26.0	48.4#
148	70.6	43.9	81.5





#65
 1,2-Dichlorobenzene
 Concen: 82.002 ug/L
 RT: 13.88 min Scan# 1964
 Delta R.T. 0.01 min
 Lab File: VW016901.D
 Acq: 14 Oct 2020 13:36

Instrument :
 MSVOA_W
 ClientSampleId :
 BG3X9

Tot Ion:	146	Resp:	129121
Ion Ratio	Lower	Upper	
146	100		
111	45.0	32.1	48.1
148	64.5	51.8	77.6

Manual Integrations
 APPROVED

MMDadoda
 10/19/2020 10:59:08 AM

