

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW040819\
 Data File : VW009877.D
 Acq On : 10 Apr 2019 11:55
 Operator : SY/VA
 Sample : K2254-22
 Misc : 4.97G/10ML/MSVOA W/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 BFC68

Manual Integrations
 APPROVED

MMDadoda
 4/11/2019 2:46:49 PM

Quant Time: Apr 11 07:30:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM040319S.M
 Quant Title : VOC Analysis
 QLast Update : Wed Apr 10 08:15:04 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	516394	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	345899	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	87093m	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	141756	20.98	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	83.92%
7) Chloroethane-d5	2.89	69	129014	20.84	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	83.36%
10) 1,1-Dichloroethene-d2	4.01	63	245074	16.86	ug/L	-0.01
Spiked Amount	25.000	Range	45 - 110	Recovery	=	67.44%
20) 2-Butanone-d5	7.07	46	130006	59.25	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	118.50%
24) Chloroform-d	7.65	84	347901	24.69	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	98.76%
26) 1,2-Dichloroethane-d4	8.31	65	218691	25.28	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	101.12%
29) Benzene-d6	8.27	84	641001	35.30	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	141.20%#
33) 1,2-Dichloropropane-d6	9.27	67	209649	37.38	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	149.52%#
37) Toluene-d8	10.32	98	489991	29.19	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	116.76%
38) trans-1,3-Dichloropropene-	10.58	79	81817	30.59	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	122.36%
39) 2-Hexanone-d5	10.93	63	87132	82.43	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	164.86%#
48) 1,1,2,2-Tetrachloroethane-	12.69	84	131773	25.27	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	101.08%
61) 1,2-Dichlorobenzene-d4	13.86	152	79120	25.89	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	103.56%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	2.36	62	194007	21.515	ug/L	99
9) Trichlorofluoromethane	3.26	101	9571	1.730	ug/L	97
13) Acetone	4.12	43	158058	67.236	ug/L	97
14) Carbon disulfide	4.37	76	24799	1.163	ug/L	99
16) Methylene chloride	4.92	84	27949m	3.069	ug/L	
21) 2-Butanone	7.17	43	47244	15.802	ug/L	97
30) Cyclohexane	7.95	56	176923	21.671	ug/L #	83
34) Benzene	8.32	78	596212	28.649	ug/L	100
36) Methylcyclohexane	9.34	83	155412	17.356	ug/L #	82
43) 4-Methyl-2-pentanone	10.21	43	96828	23.399	ug/L	97
44) Toluene	10.39	91	1929917	87.540	ug/L	99
53) Ethylbenzene	11.73	91	4670462	185.975	ug/L	100
54) m,p-Xylene	11.84	106	4382110	471.773	ug/L	96
55) o-xylene	12.16	106	1833717	207.282	ug/L	98
57) Isopropylbenzene	12.47	105	528979	21.837	ug/L	99
64) 1,4-Dichlorobenzene	13.58	146	2425	0.422	ug/L #	71

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Quant Title : VOC Analysis
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

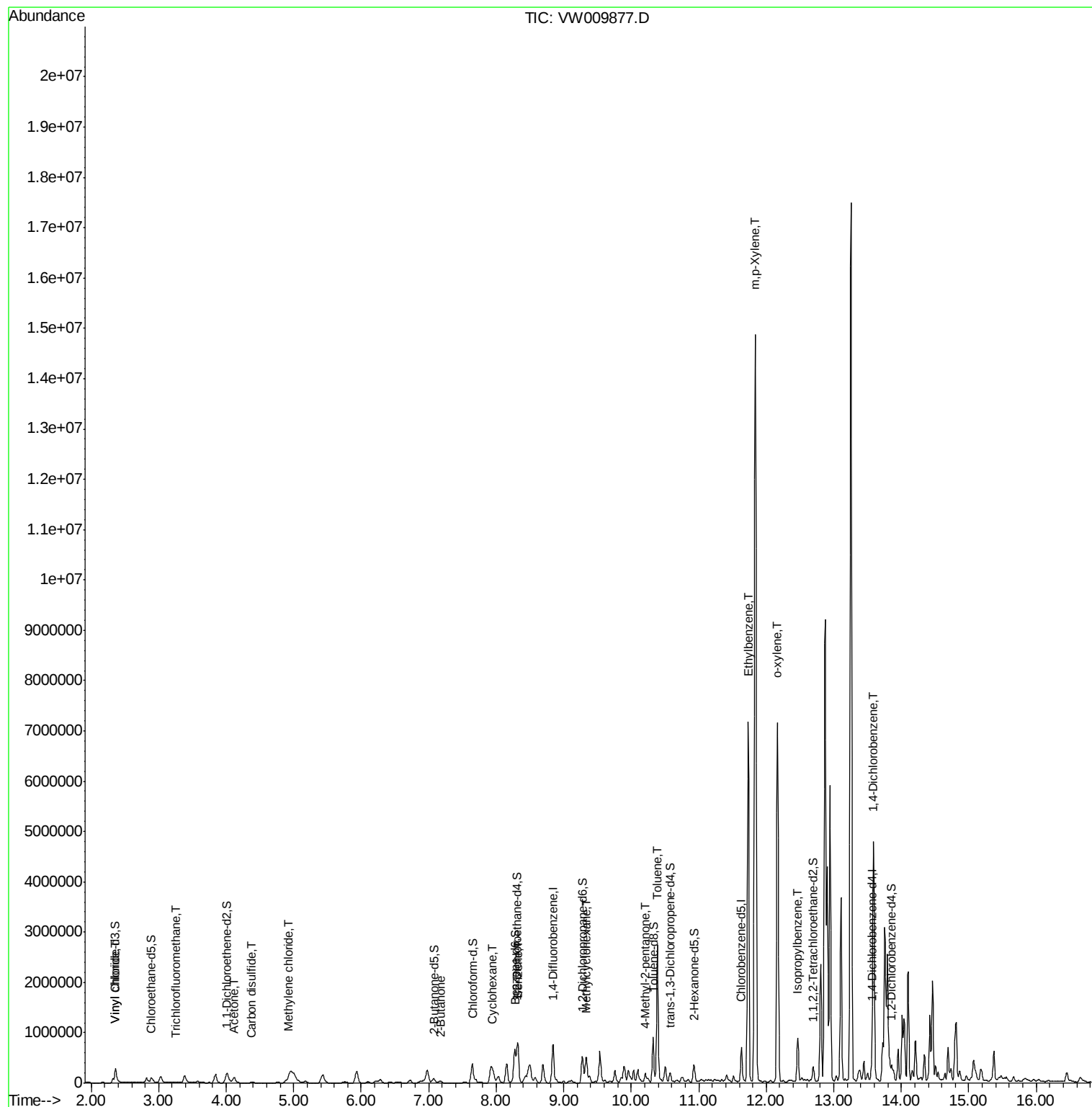
Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW040819\
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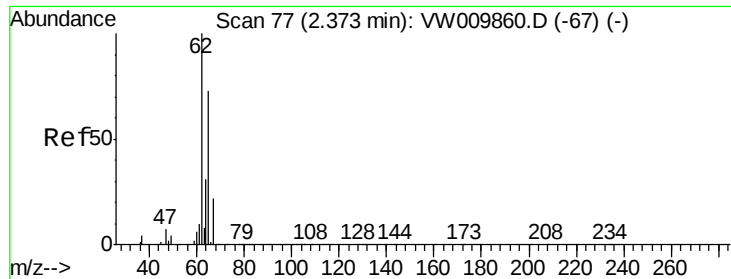
Instrument :
MSVOA_W
ClientSampleId :
BFC68

Manual Integrations
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Quant Time: Apr 11 07:30:00 2019
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QLast Update : Wed Apr 10 08:15:04 2019
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 21.515 ug/L

RT: 2.36 min Scan# 75

Delta R.T. -0.01 min

Lab File: VW009877.D

Acq: 10 Apr 2019 11:55

Instrument :

MSVOA_W

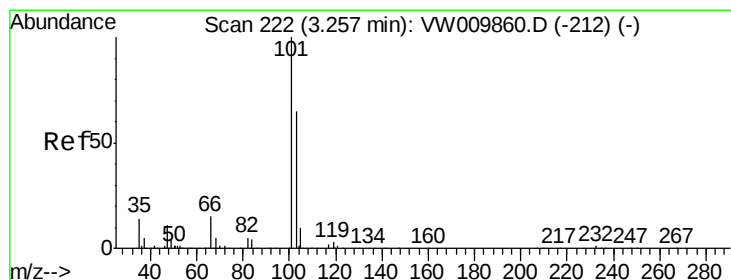
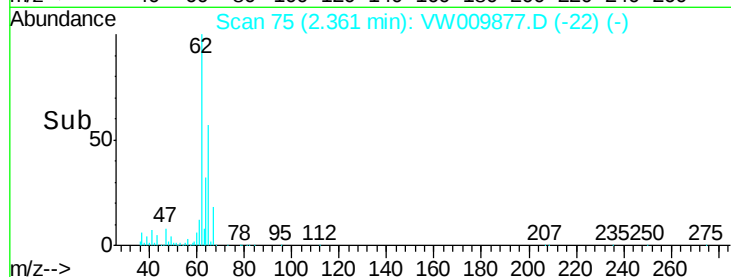
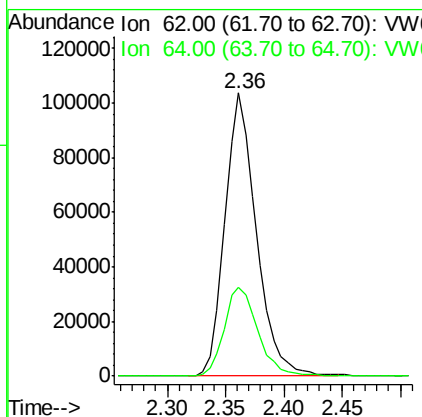
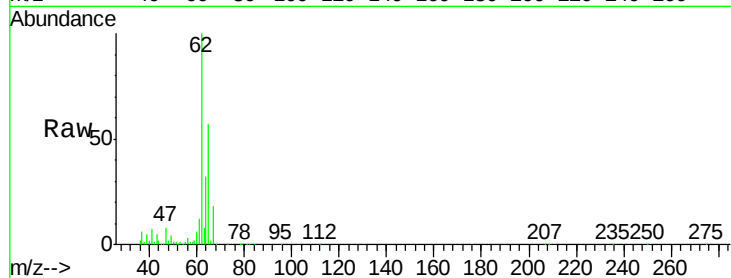
ClientSampleId :

BFC68

Tot Ion	62	Resp	194007
Ion	Ratio	Lower	Upper
62	100		
64	31.5	21.8	40.6

Manual Integrations
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#9

Trichlorofluoromethane

Concen: 1.730 ug/L

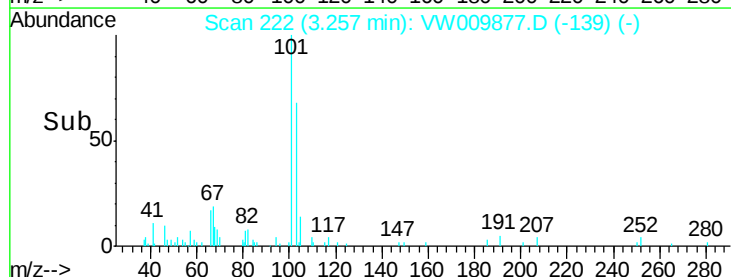
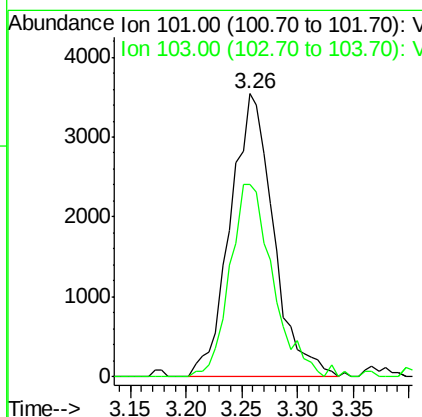
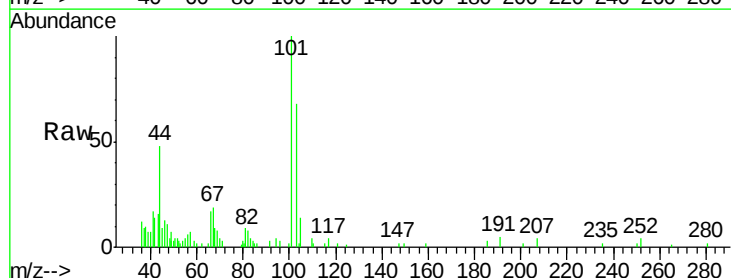
RT: 3.26 min Scan# 222

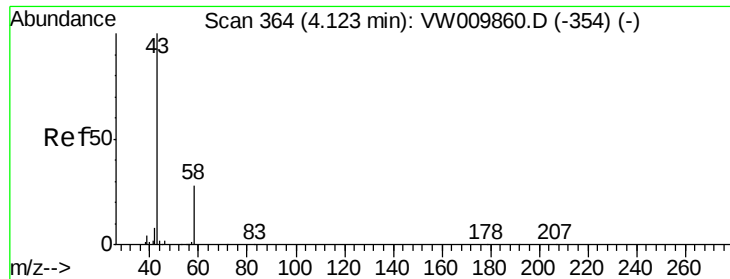
Delta R.T. 0.01 min

Lab File: VW009877.D

Acq: 10 Apr 2019 11:55

Tgt Ion	101	Resp	9571
Ion	Ratio	Lower	Upper
101	100		
103	67.1	45.1	83.7





#13

Acetone

Concen: 67.236 ug/L

RT: 4.12 min Scan# 363

Delta R.T. -0.01 min

Lab File: VW009877.D

Acq: 10 Apr 2019 11:55

Instrument :

MSVOA_W

ClientSampleId :

BFC68

Tot Ion: 43 Resp: 158058

Ion Ratio Lower Upper

43 100

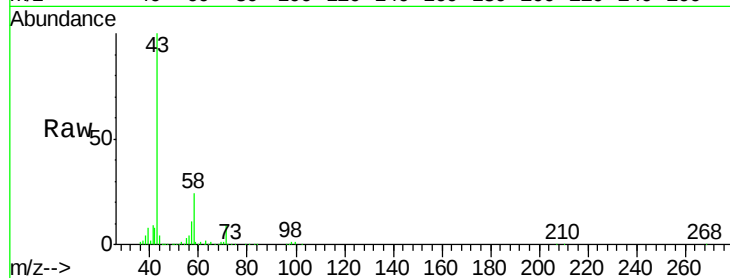
58 25.1 0.0 53.0

Manual Integrations

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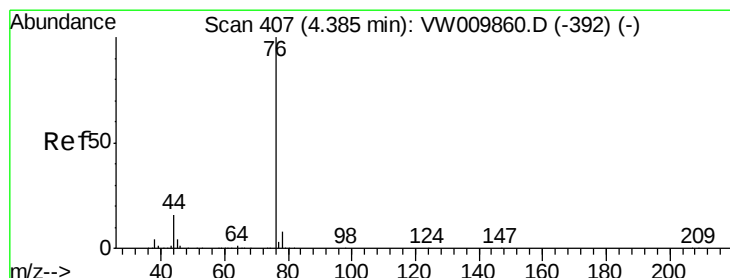
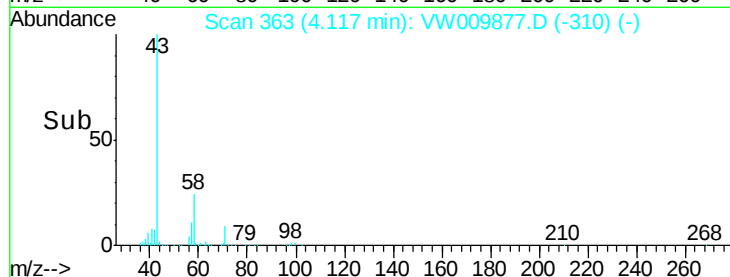
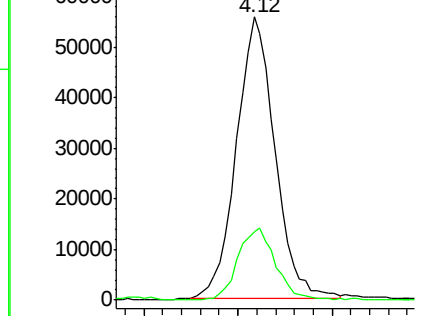
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Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#14

Carbon disulfide

Concen: 1.163 ug/L

RT: 4.37 min Scan# 405

Delta R.T. -0.01 min

Lab File: VW009877.D

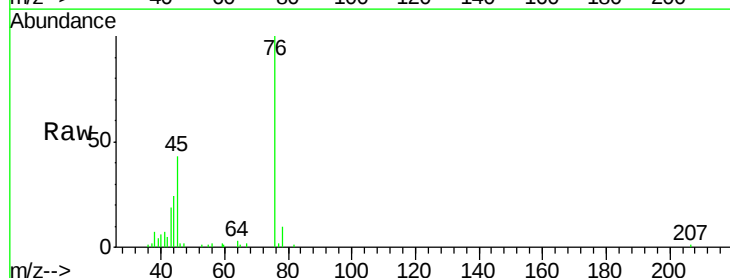
Acq: 10 Apr 2019 11:55

Tgt Ion: 76 Resp: 24799

Ion Ratio Lower Upper

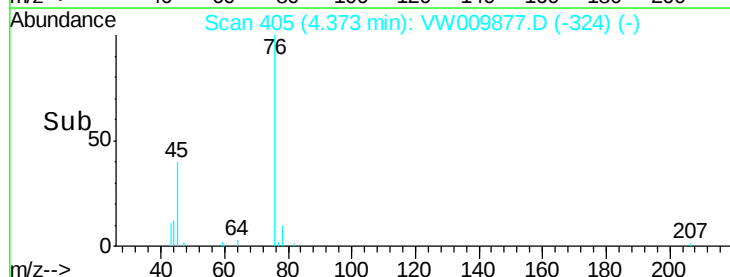
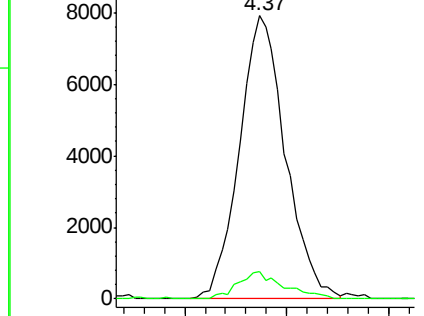
76 100

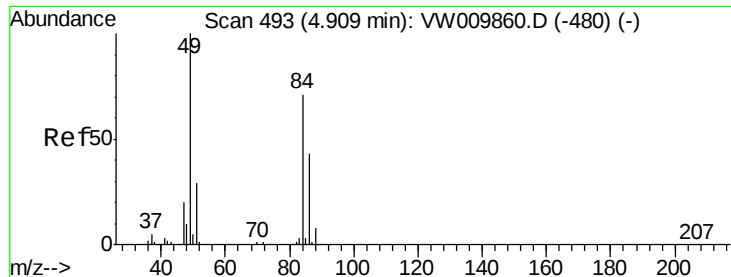
78 9.6 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW





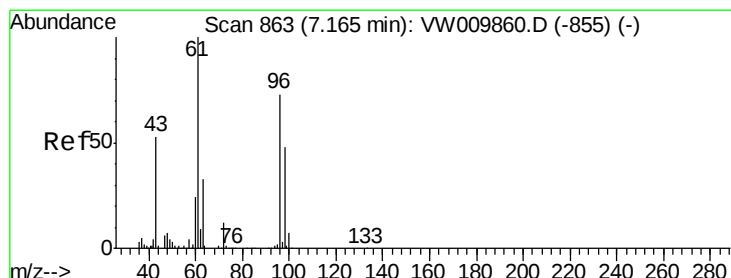
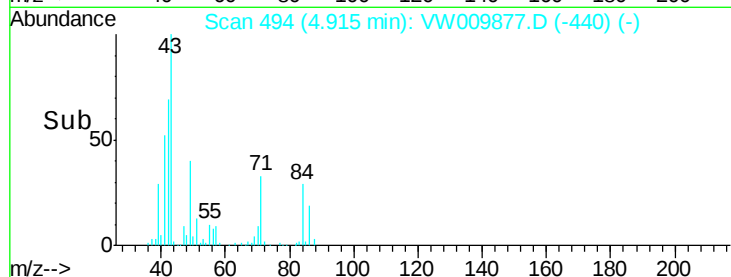
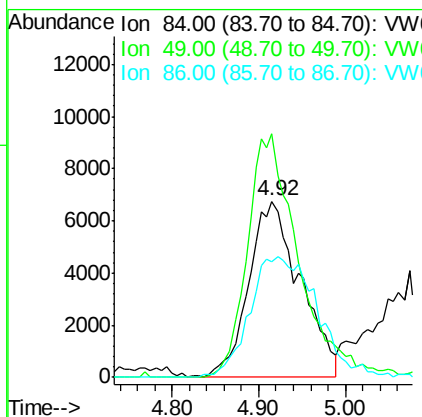
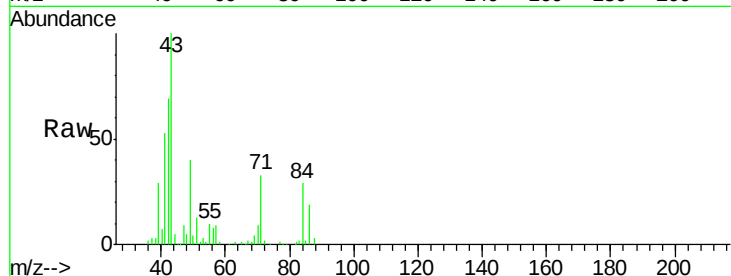
#16
Methvlene chloride
Concen: 3.069 ug/L m
RT: 4.92 min Scan# 494
Delta R.T. 0.00 min
Lab File: VW009877.D
Acq: 10 Apr 2019 11:55

Instrument :
MSVOA_W
ClientSampleId :
BFC68

Tot Ion	84	Resp	27949
Ion Ratio	Lower	Upper	
84	100		
49	138.2	98.3	182.5
86	66.0	46.4	86.2

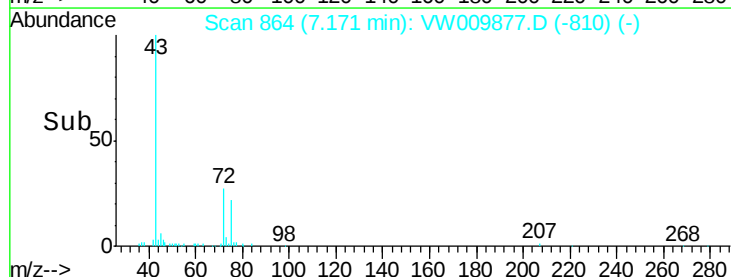
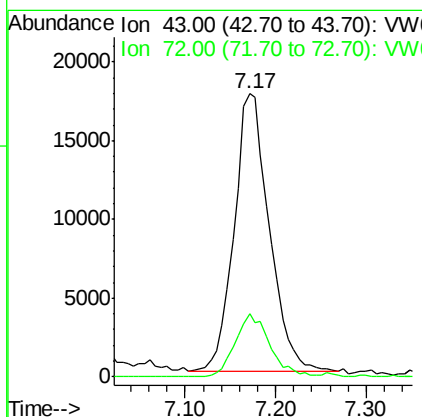
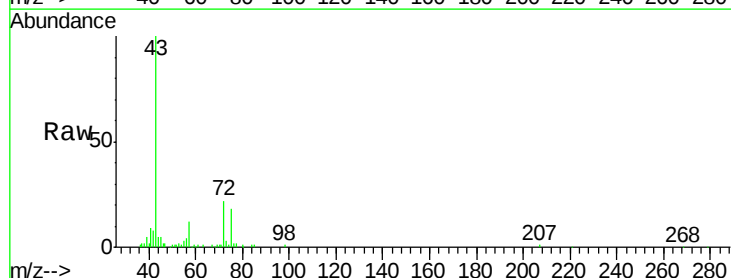
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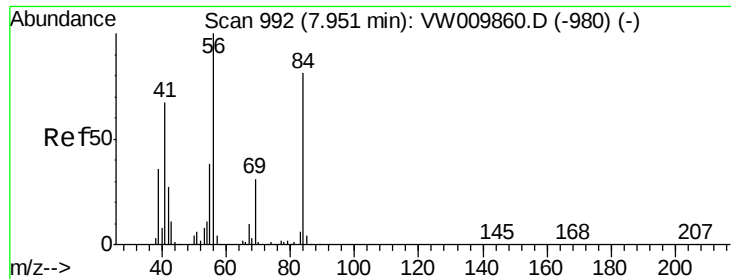
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#21
2-Butanone
Concen: 15.802 ug/L
RT: 7.17 min Scan# 864
Delta R.T. 0.00 min
Lab File: VW009877.D
Acq: 10 Apr 2019 11:55

Tgt Ion	43	Resp	47244
Ion Ratio	Lower	Upper	
43	100		
72	22.4	12.0	36.1





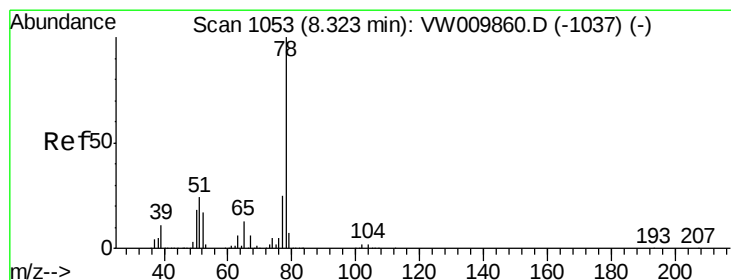
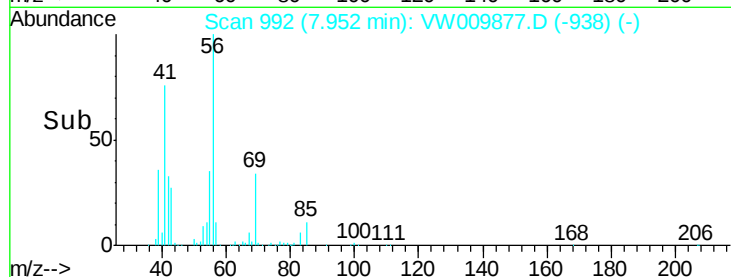
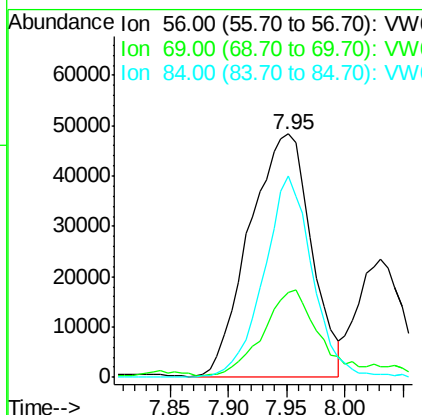
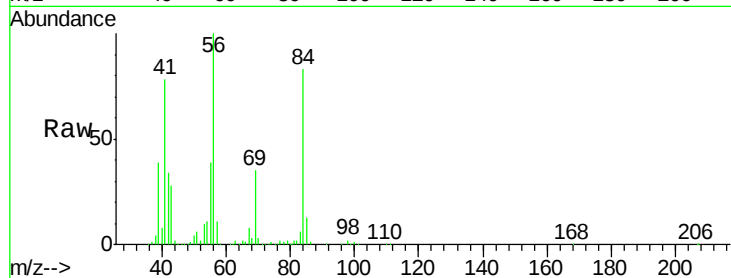
#30
Cyclohexane
Concen: 21.671 ug/L
RT: 7.95 min Scan# 992
Delta R.T. 0.00 min
Lab File: VW009877.D
Acq: 10 Apr 2019 11:55

Instrument :
MSVOA_W
ClientSampleId :
BFC68

Tot Ion	Ratio	Lower	Upper
56	100		
69	31.0	23.4	35.2
84	65.2	67.7	101.5#

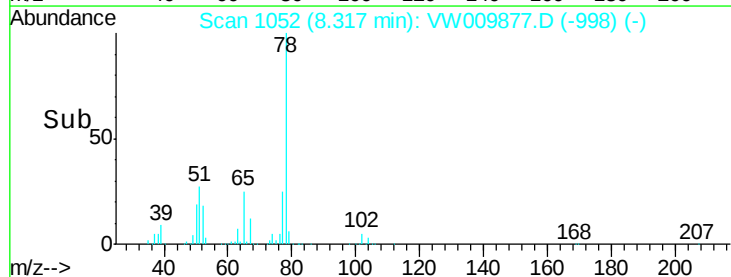
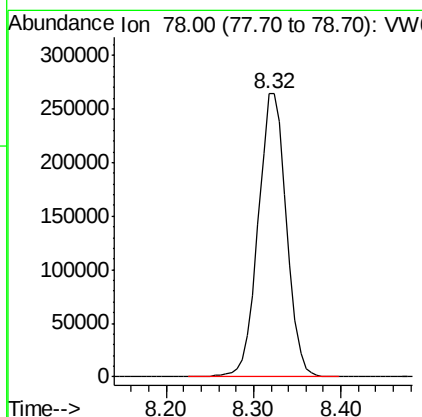
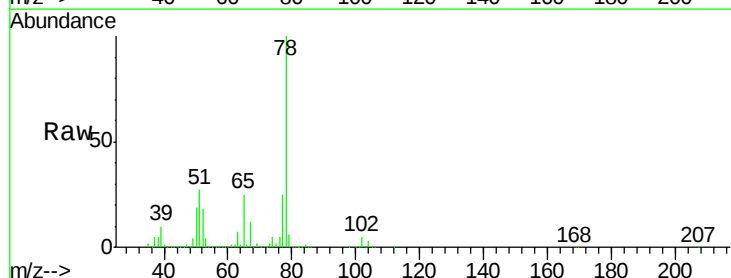
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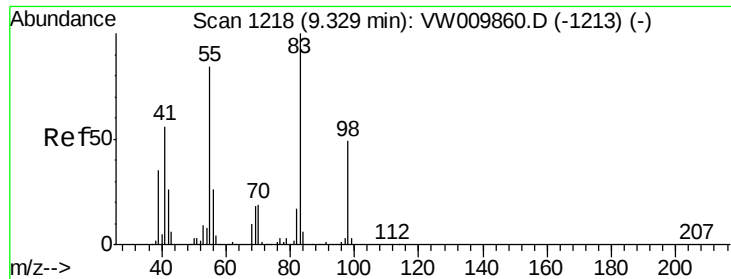
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#34
Benzene
Concen: 28.649 ug/L
RT: 8.32 min Scan# 1052
Delta R.T. 0.00 min
Lab File: VW009877.D
Acq: 10 Apr 2019 11:55

Tgt Ion: 78 Resp: 596212





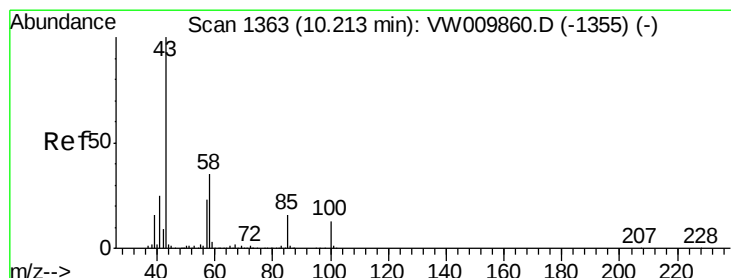
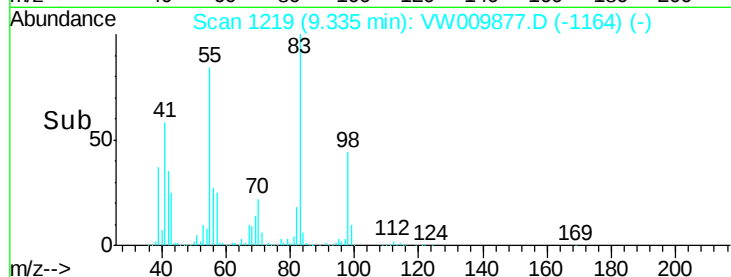
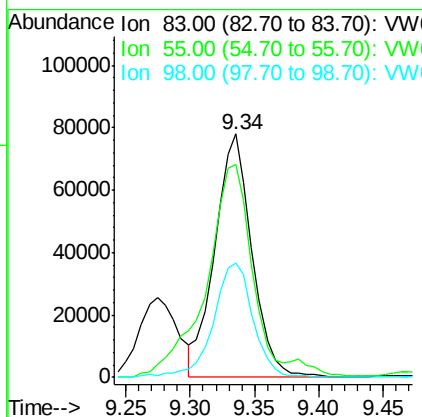
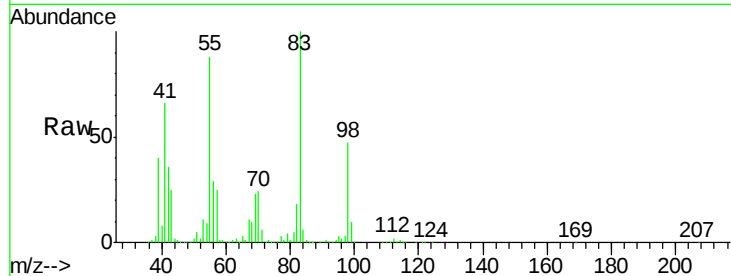
#36
Methylcyclohexane
Concen: 17.356 ug/L
RT: 9.34 min Scan# 1219
Delta R.T. 0.01 min
Lab File: VW009877.D
Acq: 10 Apr 2019 11:55

Instrument :
MSVOA_W
ClientSampled :
BFC68

Tot Ion	Ratio	Resp	Lower	Upper
83	100	155412		
55	107.5	66.3	99.5#	
98	51.1	39.4	59.0	

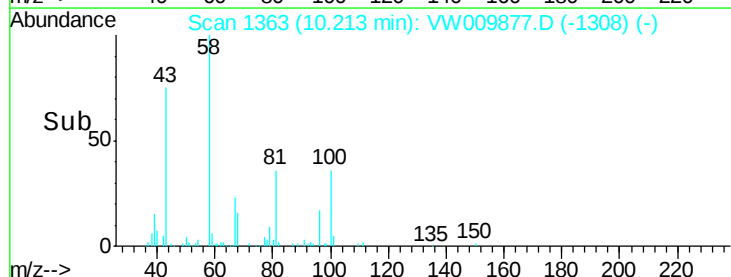
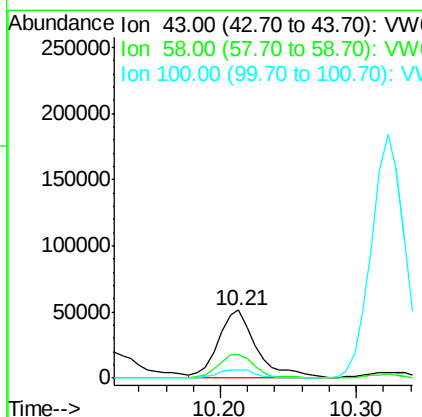
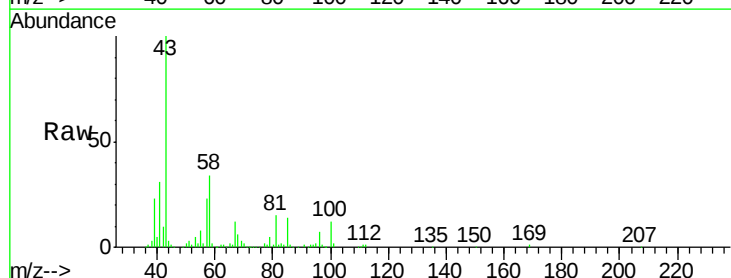
Manual Integrations
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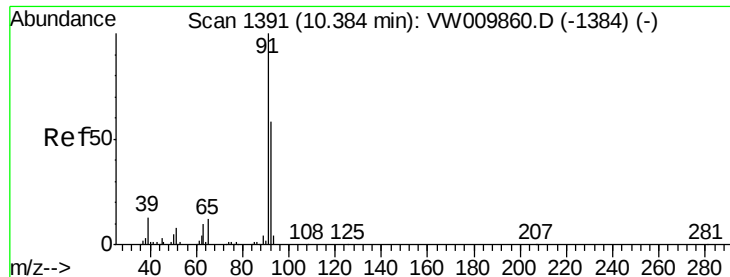
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#43
4-Methyl-2-pentanone
Concen: 23.399 ug/L
RT: 10.21 min Scan# 1363
Delta R.T. 0.01 min
Lab File: VW009877.D
Acq: 10 Apr 2019 11:55

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	96828		
58	33.5	28.2	42.4	
100	12.7	10.9	16.3	





#44

Toluene

Concen: 87.540 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. 0.01 min

Lab File: VW009877.D

Acq: 10 Apr 2019 11:55

Instrument :

MSVOA_W

ClientSampleId :

BFC68

Tot Ion: 91 Resp: 1929917

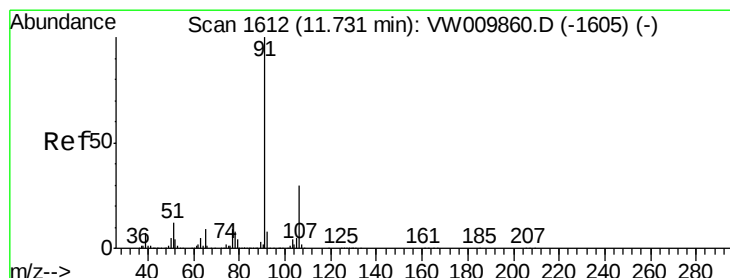
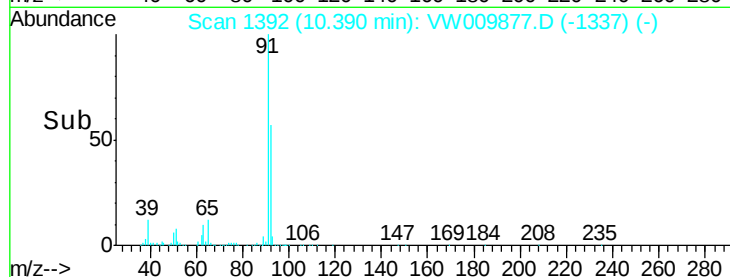
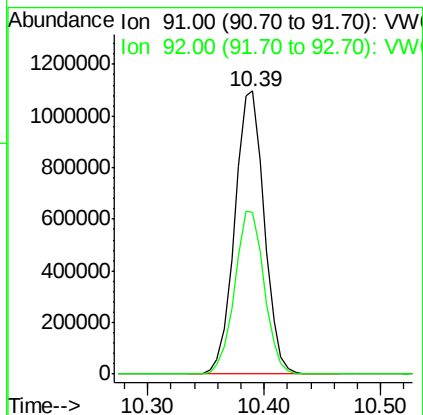
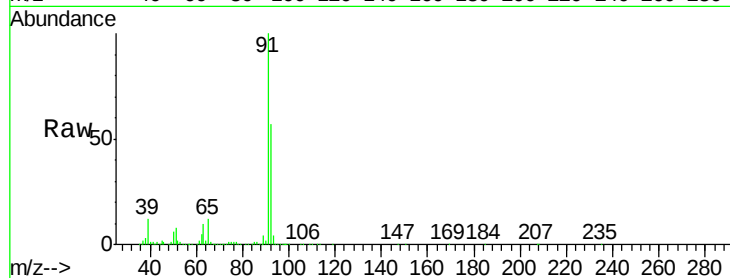
Ion Ratio Lower Upper

91 100

92 57.3 40.5 75.1

Manual Integrations
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#53

Ethylbenzene

Concen: 185.975 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW009877.D

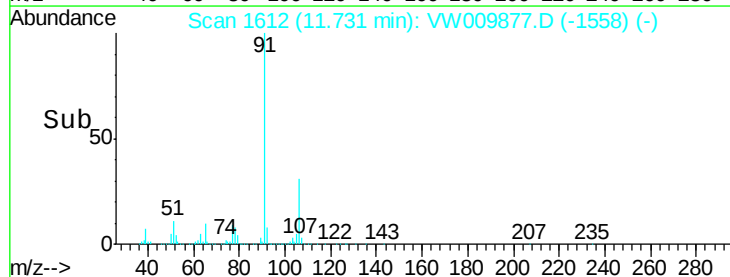
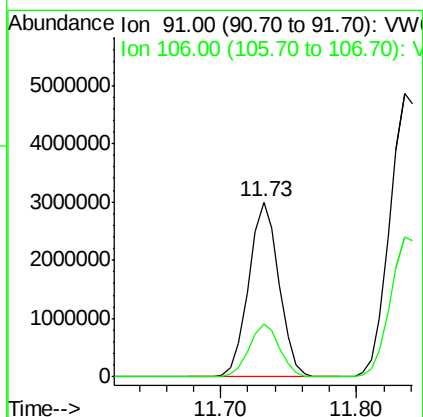
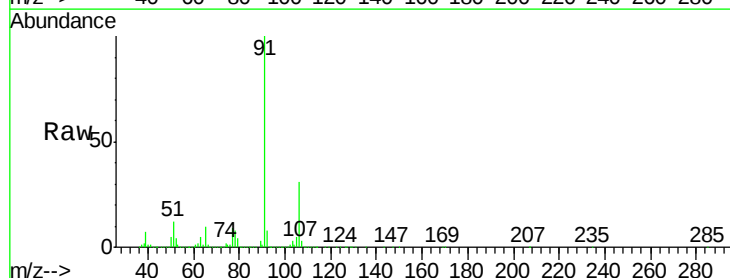
Acq: 10 Apr 2019 11:55

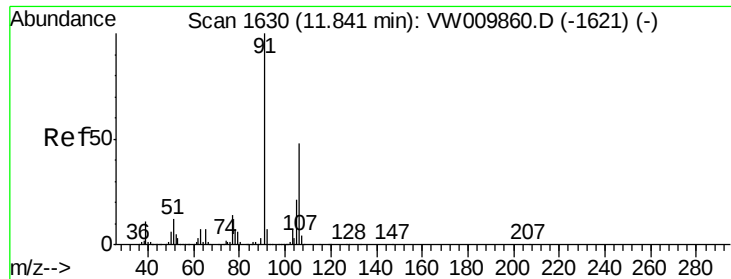
Tgt Ion: 91 Resp: 4670462

Ion Ratio Lower Upper

91 100

106 30.6 21.5 39.9





#54

m,p-Xylene

Concen: 471.773 ug/L

RT: 11.84 min Scan# 1629

Delta R.T. -0.01 min

Lab File: VW009877.D

Acq: 10 Apr 2019 11:55

Instrument :

MSVOA_W

ClientSampled :

BFC68

Tot Ion:106 Resp: 4382110

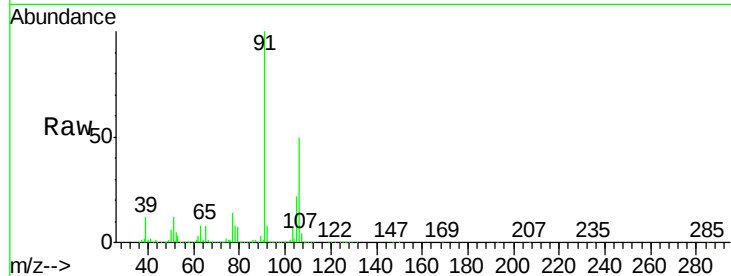
Ion Ratio Lower Upper

106 100

91 201.7 145.3 269.9

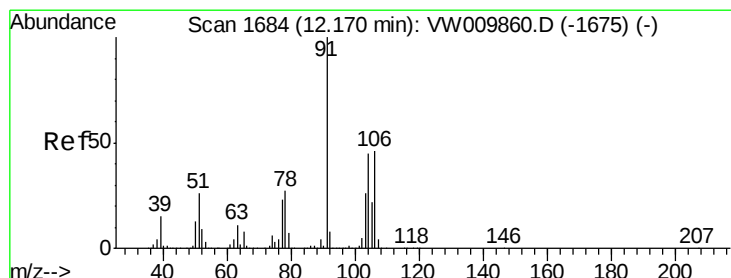
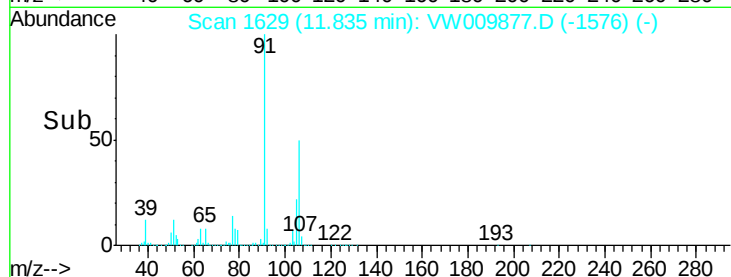
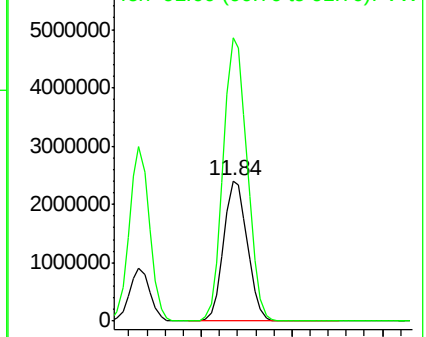
Manual Integrations
APPROVED

MMDadoda
4/11/2019 2:46:49 PM



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#55

o-xylene

Concen: 207.282 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. 0.00 min

Lab File: VW009877.D

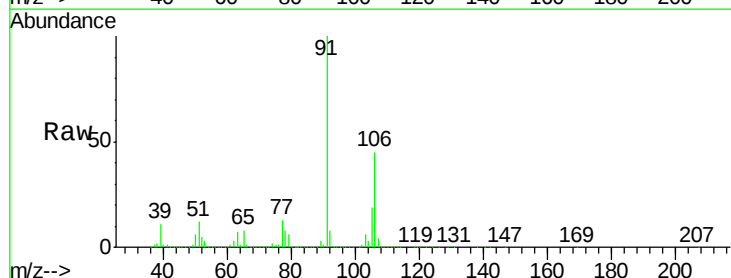
Acq: 10 Apr 2019 11:55

Tgt Ion:106 Resp: 1833717

Ion Ratio Lower Upper

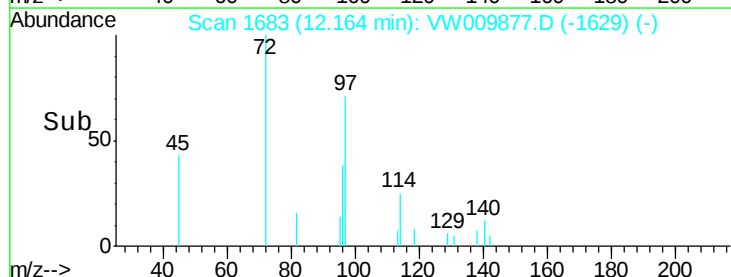
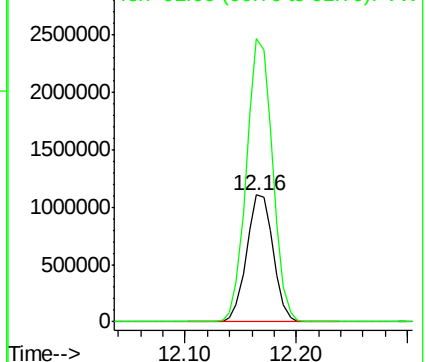
106 100

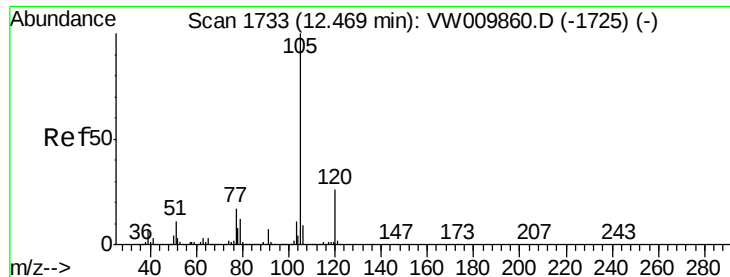
91 223.2 153.9 285.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





#57

Isopropylbenzene

Concen: 21.837 ug/L

RT: 12.47 min Scan# 1733

Delta R.T. 0.01 min

Lab File: VW009877.D

Acq: 10 Apr 2019 11:55

Instrument :

MSVOA_W

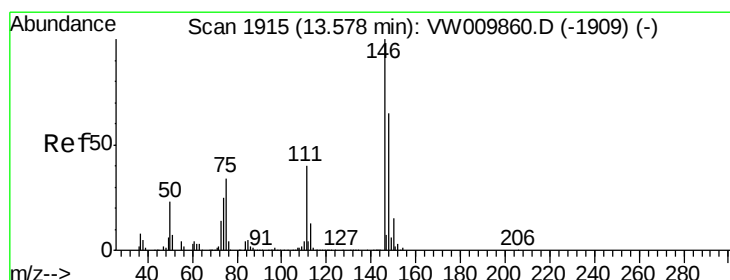
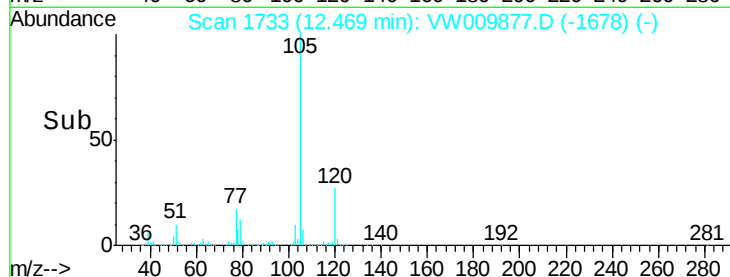
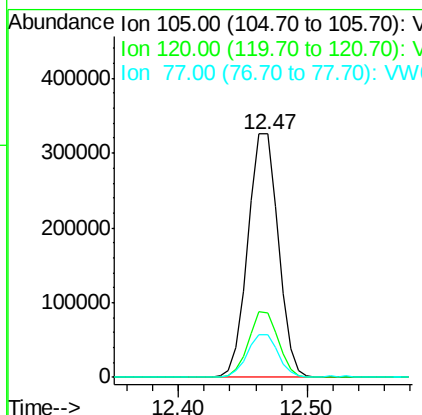
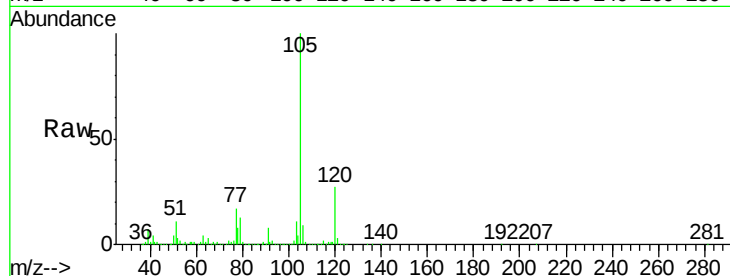
ClientSampleId :

BFC68

Tot Ion:	105	Resp:	528979
Ion Ratio		Lower	Upper
105	100		
120	26.3	21.0	31.4
77	17.5	13.4	20.2

Manual Integrations
APPROVED

MMDadoda
4/11/2019 2:46:49 PM



#64

1,4-Dichlorobenzene

Concen: 0.422 ug/L

RT: 13.58 min Scan# 1915

Delta R.T. 0.00 min

Lab File: VW009877.D

Acq: 10 Apr 2019 11:55

Tgt Ion:	146	Resp:	2425
Ion Ratio		Lower	Upper
146	100		
111	83.7	27.4	50.8#
148	61.3	43.8	81.3

