

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW020719\
 Data File : VW008567.D
 Acq On : 07 Feb 2019 21:44
 Operator : SY/VA
 Sample : K1409-04
 Misc : 5.20G/5ML/MSVOA W/SOIL
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 SB-09(13-16)

Manual Integrations
 APPROVED

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 2/11/2019 12:39:44 PM

Quant Time: Feb 09 00:12:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W012419S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jan 25 11:07:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	515551	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	929141	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	890563	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	460493	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	315628	62.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	124.64%	
35) Dibromofluoromethane	7.88	113	282999	52.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.18%	
50) Toluene-d8	10.32	98	2975498	136.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	273.14%	
62) 4-Bromofluorobenzene	12.62	95	1062592	126.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	253.78%	
Target Compounds						
					Qvalue	
31) Cyclohexane	7.93	56	29292795	2946.961	ug/l #	49
39) Methylcyclohexane	9.32	83	30537137m	2648.534	ug/l	
64) Tetrachloroethene	10.87	164	56771	9.415	ug/l	96
67) Ethyl Benzene	11.73	91	4924321	147.360	ug/l	100
68) m/p-Xylenes	11.84	106	3373901	260.219	ug/l	99
69) o-Xylene	12.17	106	68882	5.591	ug/l #	19
73) Isopropylbenzene	12.47	105	6871954	200.170	ug/l	100
78) n-propylbenzene	12.80	91	19658053	476.752	ug/l #	65
80) 1,3,5-Trimethylbenzene	12.94	105	18128138m	631.760	ug/l	
84) 1,2,4-Trimethylbenzene	13.24	105	23553688m	807.576	ug/l	
85) sec-Butylbenzene	13.38	105	4967675	136.223	ug/l #	53
86) p-Isopropyltoluene	13.50	119	2585294	80.934	ug/l	99
89) n-Butylbenzene	13.83	91	10856542	346.147	ug/l #	74
95) Naphthalene	15.37	128	2526562	150.503	ug/l	97

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

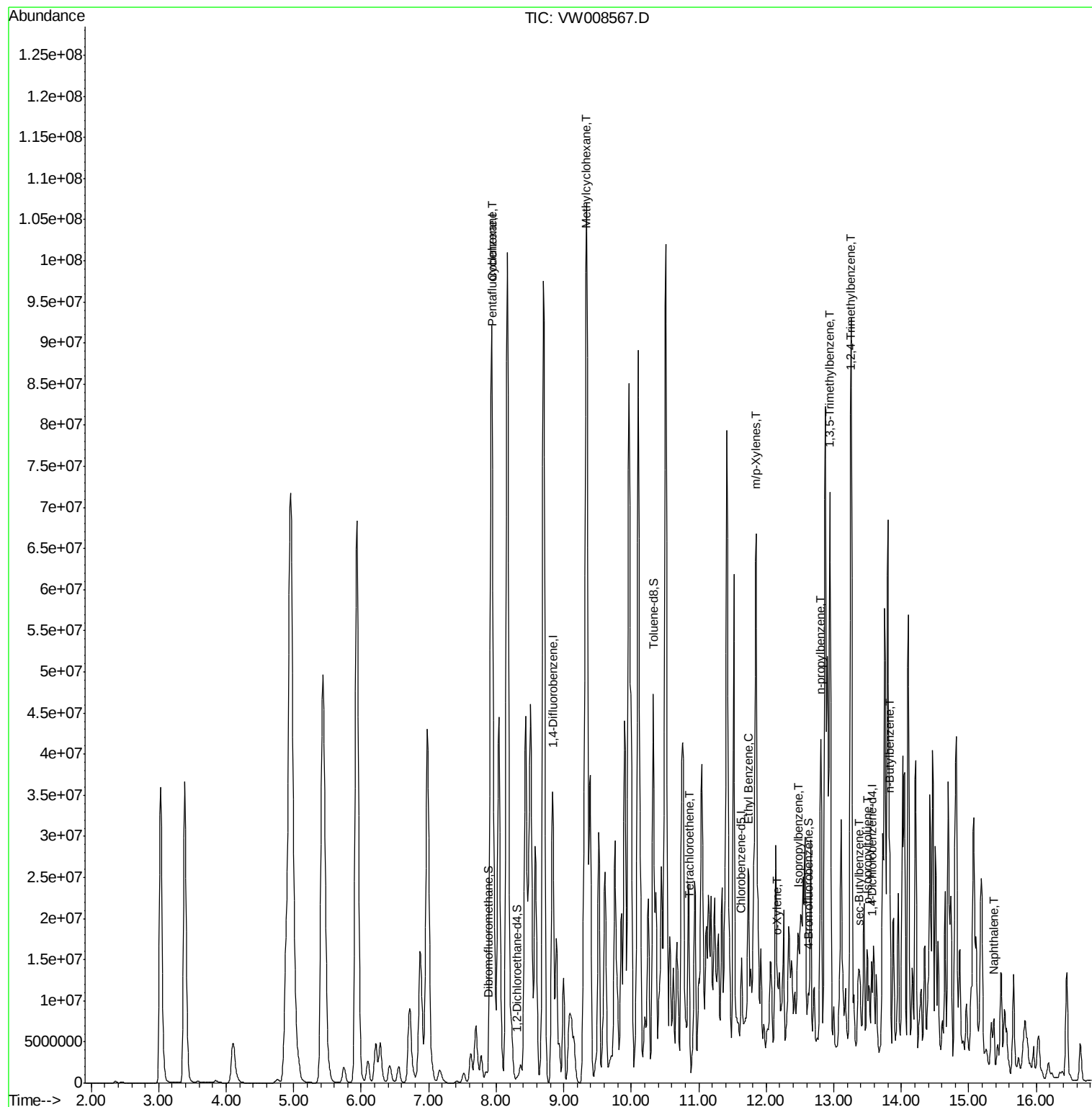
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW020719\
Data File : VW008567.D
Acq On : 07 Feb 2019 21:44
Operator : SY/VA
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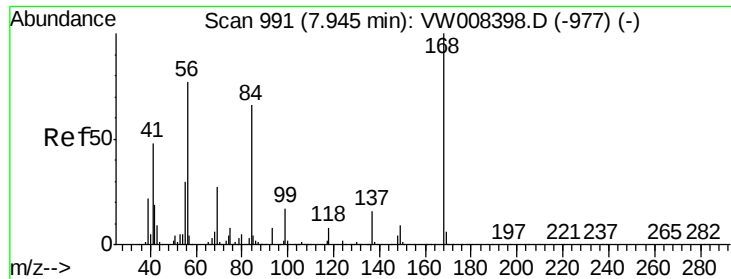
Instrument :
MSVOA_W
ClientSampleId :
SB-09(13-16)

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Quant Time: Feb 09 00:12:35 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\82W012419S.M
Quant Title : SW846 8260
QLast Update : Fri Jan 25 11:07:41 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW008567.D

Acq: 07 Feb 2019 21:44

Instrument :

MSVOA_W

ClientSampleId :

SB-09(13-16)

Tot Ion:168 Resp: 515551

Ion Ratio Lower Upper

168 100

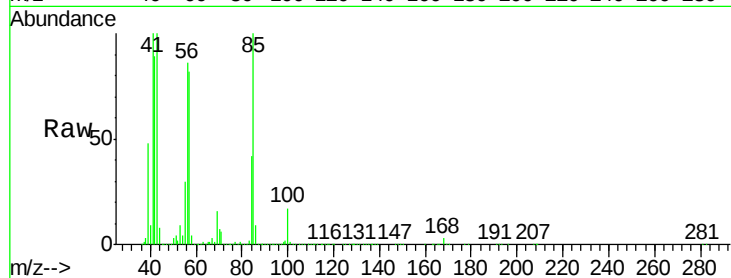
99 74.2 45.5 68.3#

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

250000

200000

150000

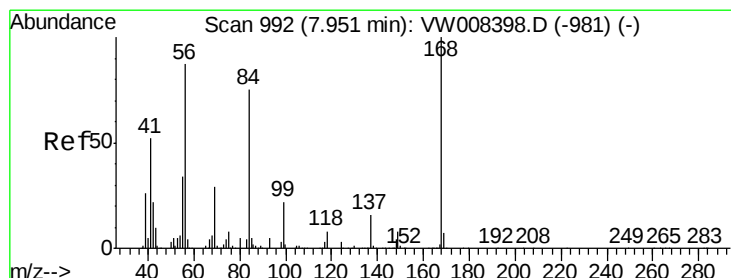
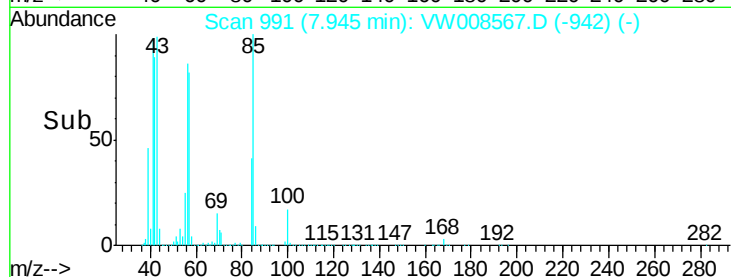
100000

50000

0

7.90 8.00

Time-->



#31

Cyclohexane

Concen: 2946.961 ug/l

RT: 7.93 min Scan# 988

Delta R.T. -0.02 min

Lab File: VW008567.D

Acq: 07 Feb 2019 21:44

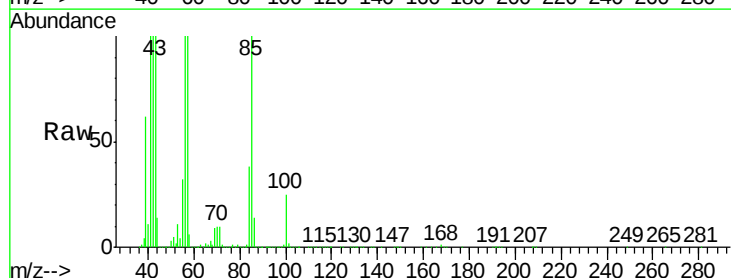
Tgt Ion: 56 Resp:29292795

Ion Ratio Lower Upper

56 100

69 6.6 26.4 39.6#

84 38.2 69.1 103.7#



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

7.93

1e+07

8000000

6000000

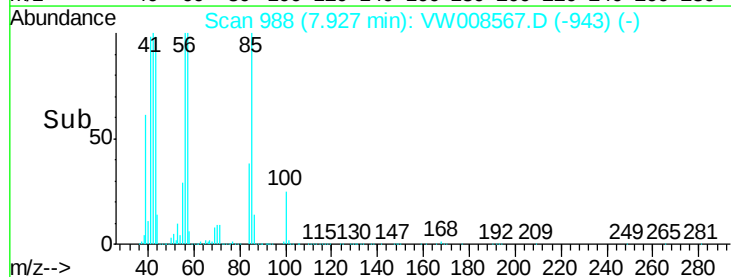
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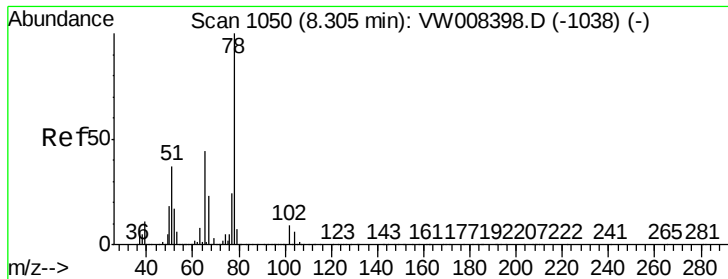
2000000

0

7.85 7.90 7.95 8.00

Time-->





#33

1,2-Dichloroethane-d4

Concen: 62.318 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW008567.D

Acq: 07 Feb 2019 21:44

Instrument :

MSVOA_W

ClientSampleId :

SB-09(13-16)

Tot Ion: 65 Resp: 315628

Ion Ratio Lower Upper

65 100

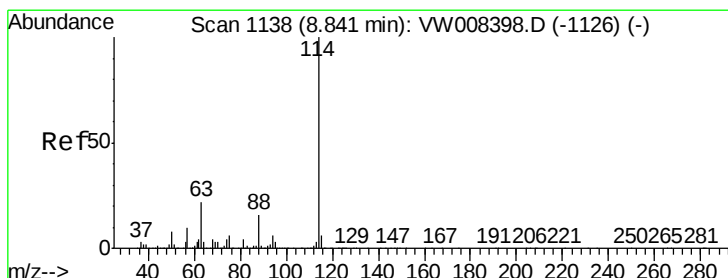
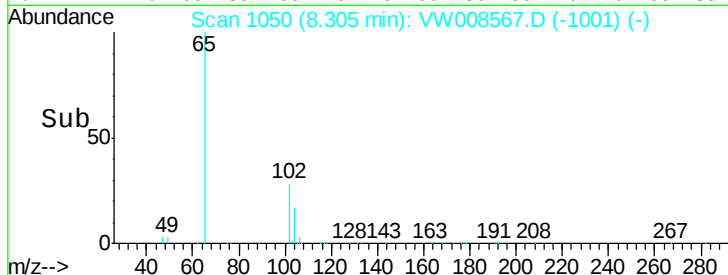
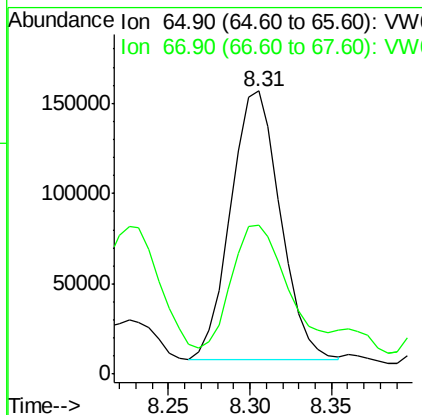
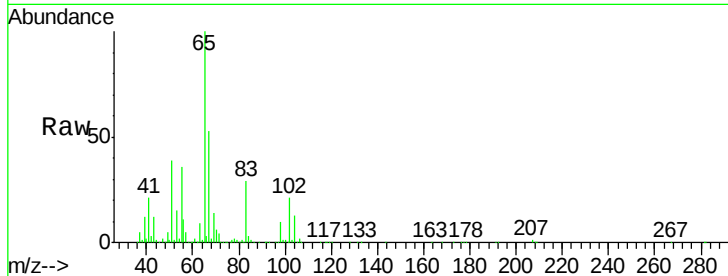
67 49.7 0.0 104.0

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. 0.00 min

Lab File: VW008567.D

Acq: 07 Feb 2019 21:44

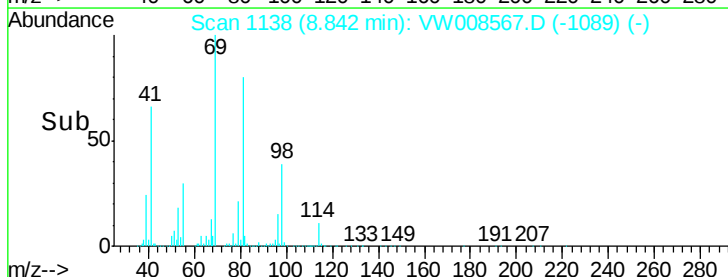
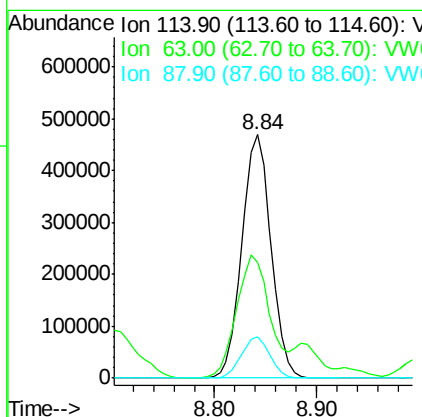
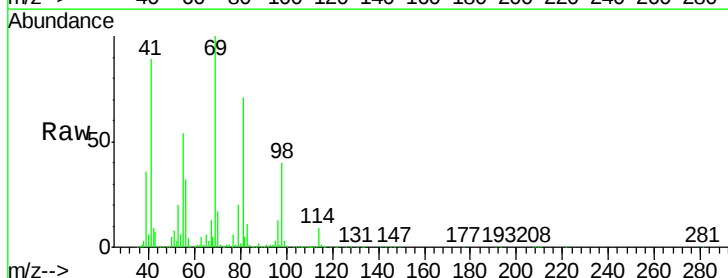
Tgt Ion: 114 Resp: 929141

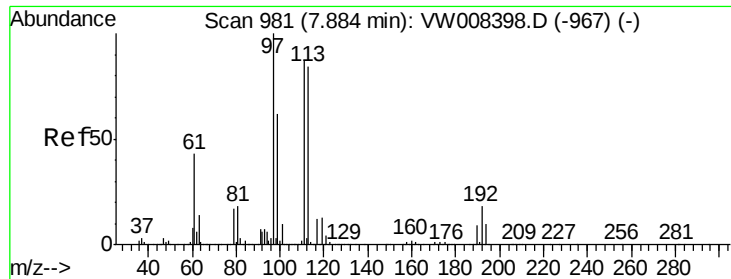
Ion Ratio Lower Upper

114 100

63 47.6 0.0 43.6#

88 16.7 0.0 31.8





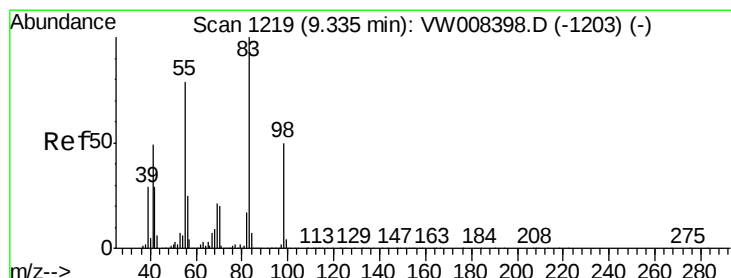
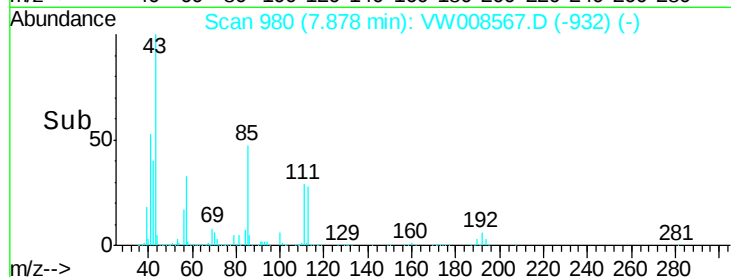
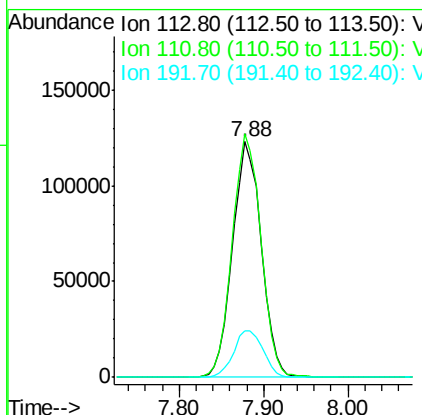
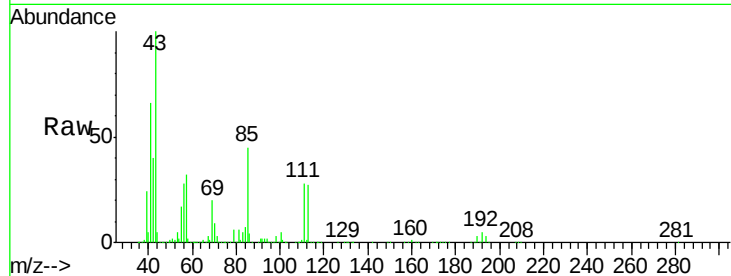
#35
Dibromofluoromethane
Concen: 52.089 ug/l
RT: 7.88 min Scan# 980
Delta R.T. -0.01 min
Lab File: VW008567.D
Acq: 07 Feb 2019 21:44

Instrument :
MSVOA_W
ClientSampleId :
SB-09(13-16)

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.5	81.0	121.4
192	20.3	16.8	25.2

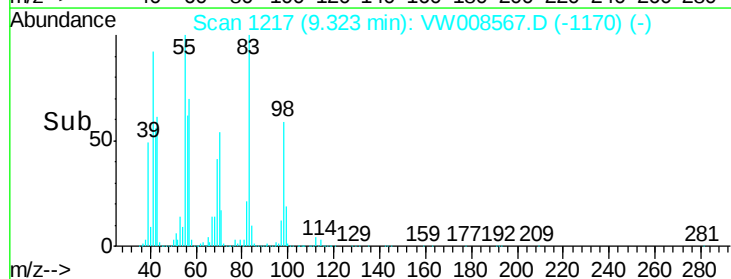
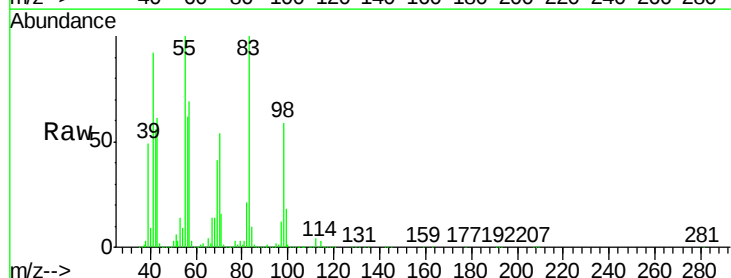
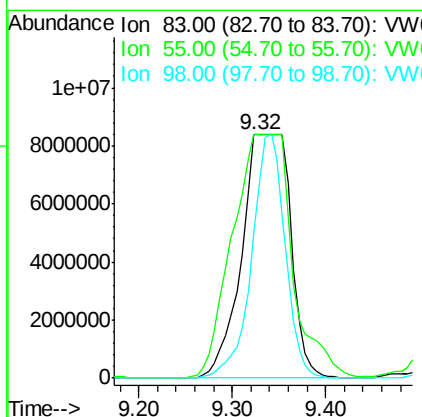
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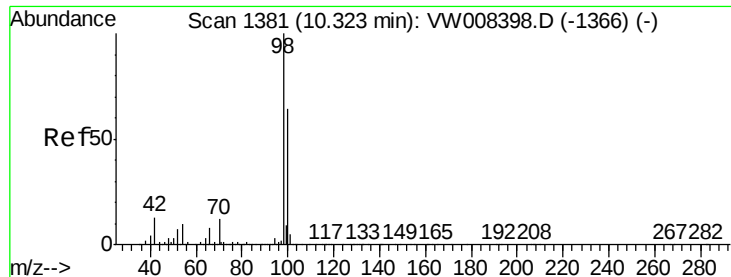
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#39
Methylcyclohexane
Concen: 2648.534 ug/l m
RT: 9.32 min Scan# 1217
Delta R.T. -0.01 min
Lab File: VW008567.D
Acq: 07 Feb 2019 21:44

Tgt Ion	Ratio	Lower	Upper
83	100		
55	100.0	63.3	94.9#
98	59.4	39.7	59.5





#50

Toluene-d8

Concen: 136.575 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW008567.D

Acq: 07 Feb 2019 21:44

Instrument :

MSVOA_W

ClientSampled :

SB-09(13-16)

Tot Ion: 98 Resp: 2975498

Ion Ratio Lower Upper

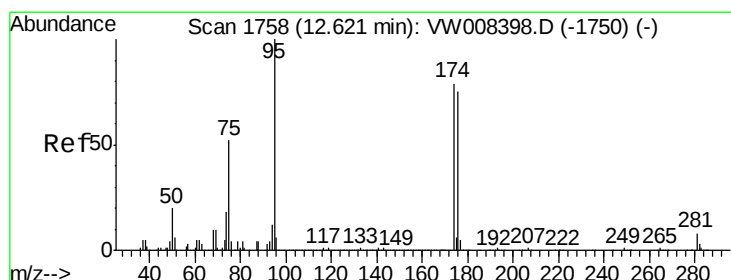
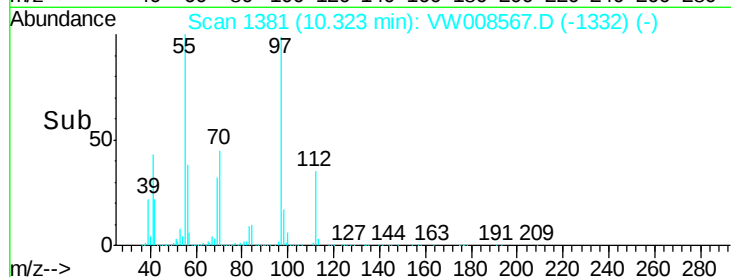
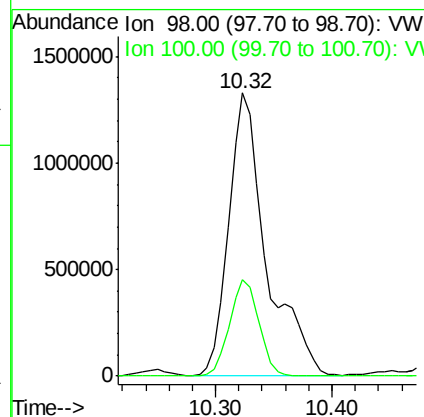
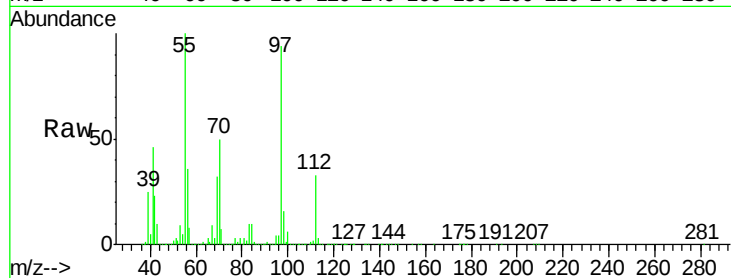
98 100

100 26.5 52.6 78.8#

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#62

4-Bromofluorobenzene

Concen: 126.886 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.01 min

Lab File: VW008567.D

Acq: 07 Feb 2019 21:44

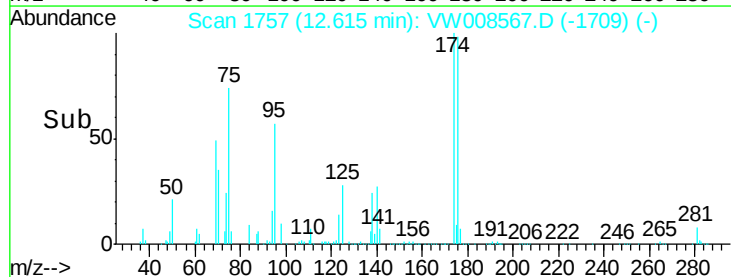
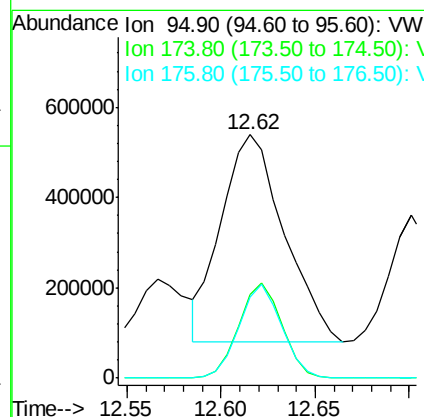
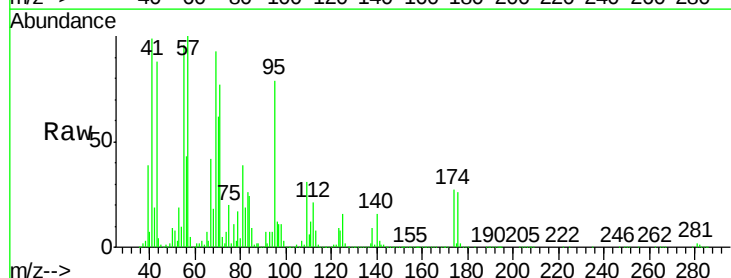
Tgt Ion: 95 Resp: 1062592

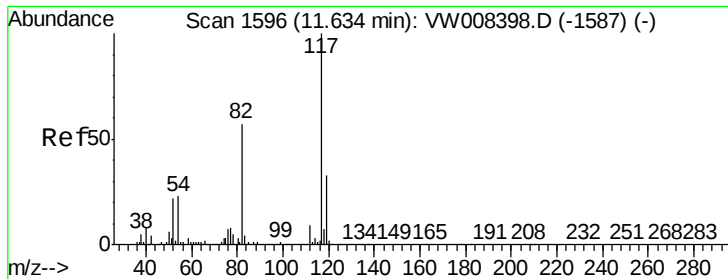
Ion Ratio Lower Upper

95 100

174 31.7 0.0 157.6

176 30.7 0.0 151.8





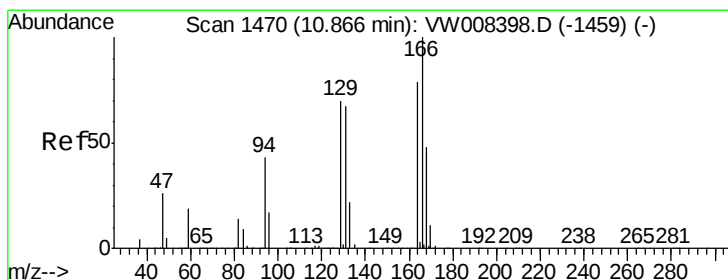
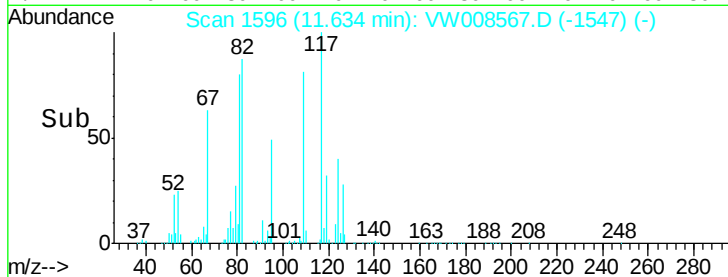
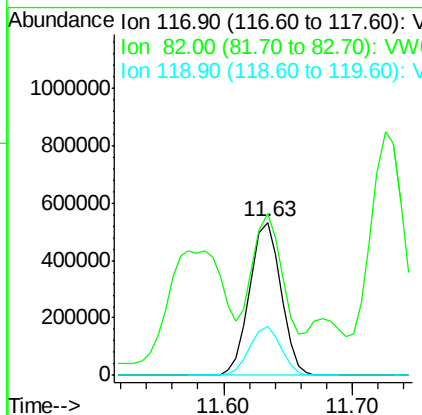
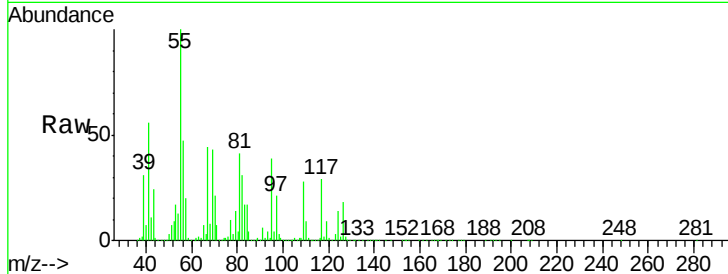
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW008567.D
Acq: 07 Feb 2019 21:44

Instrument :
MSVOA_W
ClientSampleId :
SB-09(13-16)

Tot Ion	Ratio	Lower	Upper
117	100		
82	75.5	45.4	68.0#
119	32.1	26.2	39.4

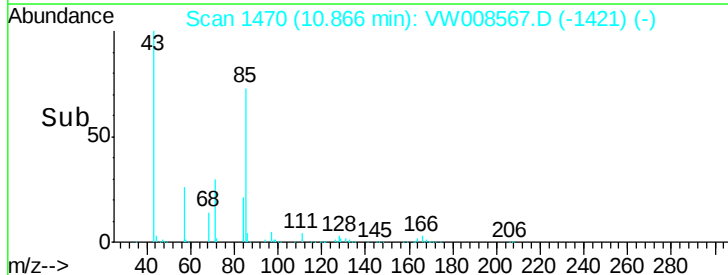
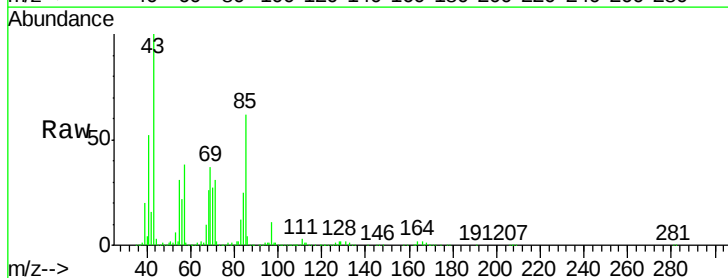
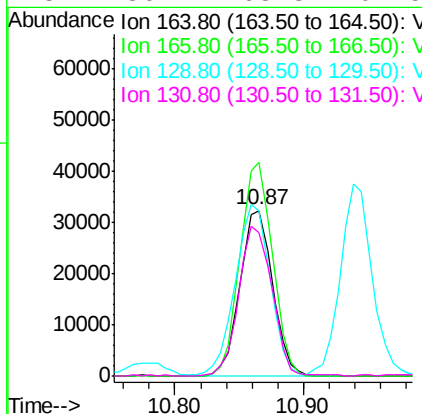
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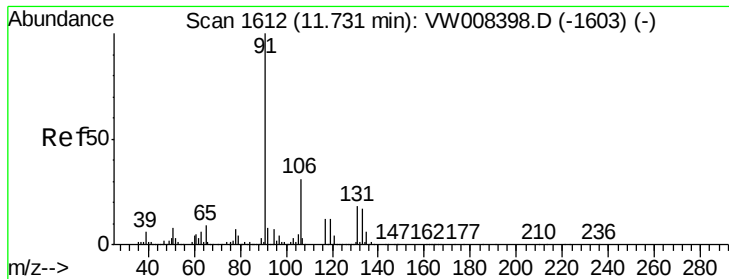
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#64
Tetrachloroethene
Concen: 9.415 ug/l
RT: 10.87 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VW008567.D
Acq: 07 Feb 2019 21:44

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.9	101.4	152.0
129	98.4	71.0	106.6
131	86.2	68.3	102.5





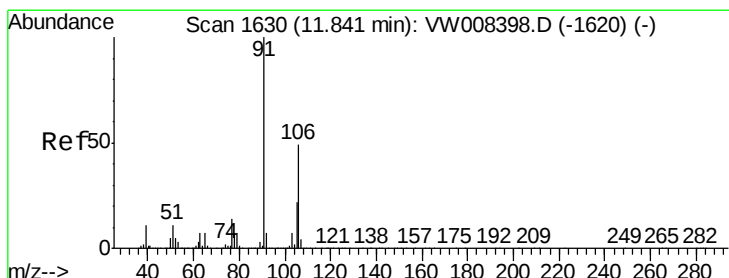
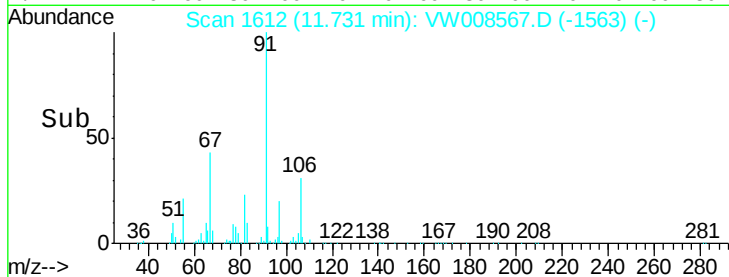
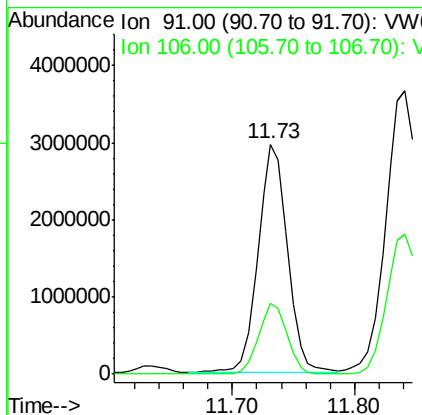
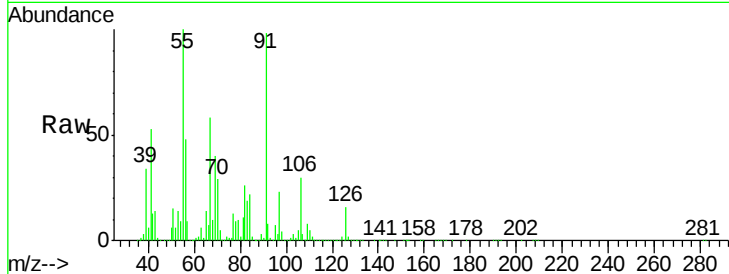
#67
Ethyl Benzene
Concen: 147.360 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW008567.D
Acq: 07 Feb 2019 21:44

Instrument :
MSVOA_W
ClientSampled :
SB-09(13-16)

Tot Ion: 91 Resp: 4924321
Ion Ratio Lower Upper
91 100
106 30.9 24.7 37.1

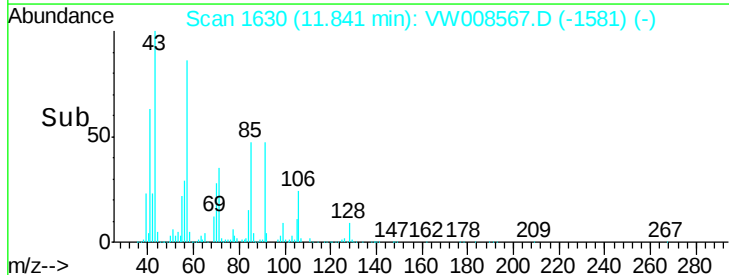
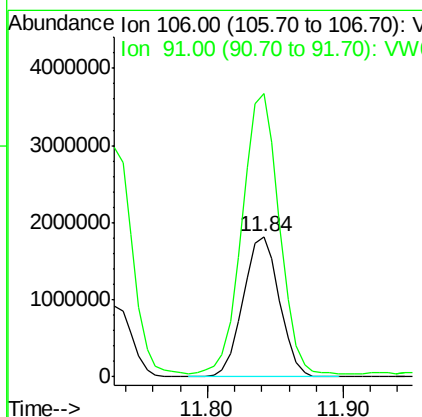
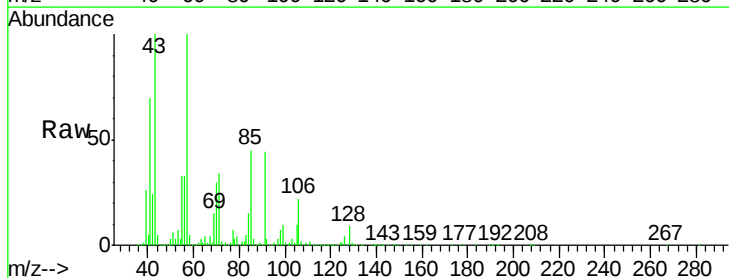
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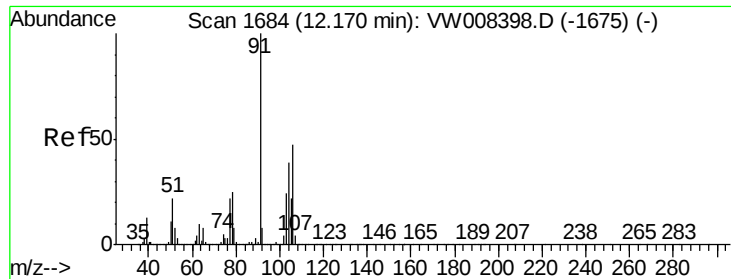
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2/11/2019 12:39:44 PM



#68
m/p-Xylenes
Concen: 260.219 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VW008567.D
Acq: 07 Feb 2019 21:44

Tgt Ion: 106 Resp: 3373901
Ion Ratio Lower Upper
106 100
91 205.7 162.9 244.3





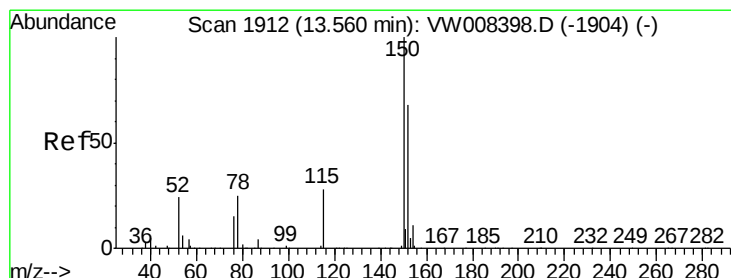
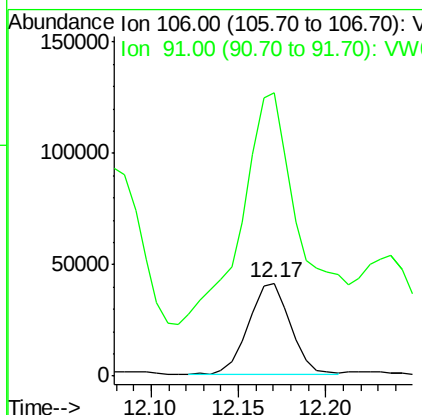
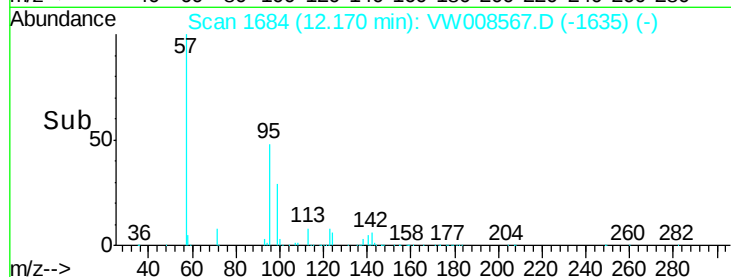
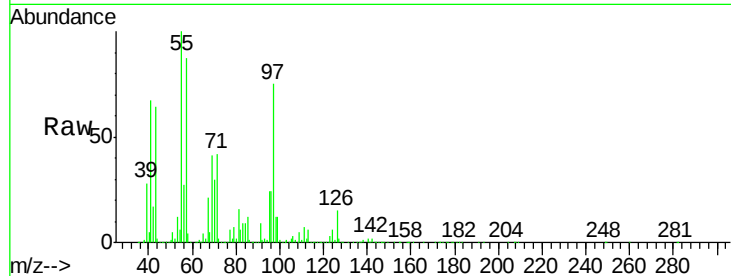
#69
o-Xylene
Concen: 5.591 ug/l
RT: 12.17 min Scan# 1684
Delta R.T. 0.00 min
Lab File: VW008567.D
Acq: 07 Feb 2019 21:44

Instrument :
MSVOA_W
ClientSampled :
SB-09(13-16)

Tot Ion:106 Resp: 68882
Ion Ratio Lower Upper
106 100
91 343.6 107.5 322.4#

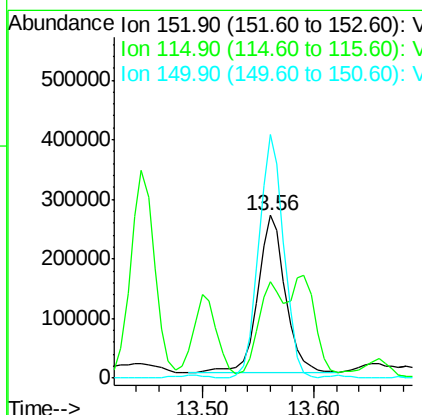
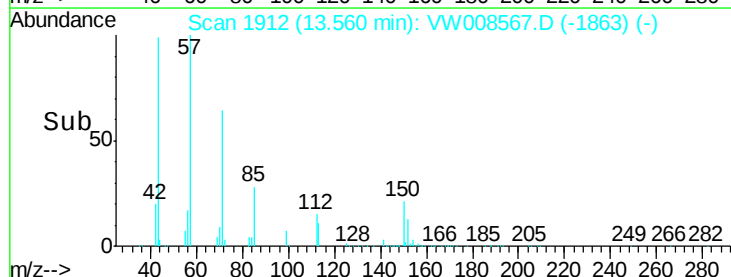
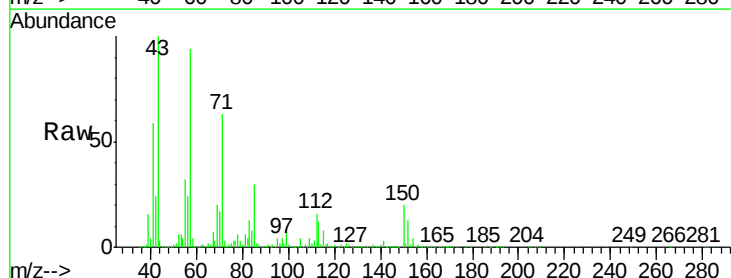
Manual Integrations
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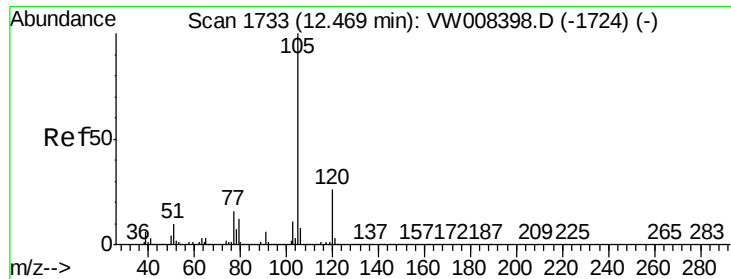
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.00 min
Lab File: VW008567.D
Acq: 07 Feb 2019 21:44

Tgt Ion:152 Resp: 460493
Ion Ratio Lower Upper
152 100
115 51.2 29.9 89.7
150 138.4 0.0 351.4





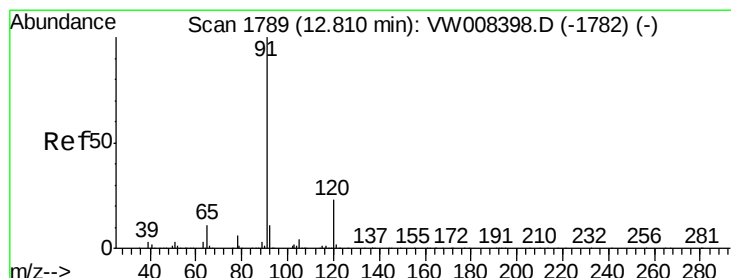
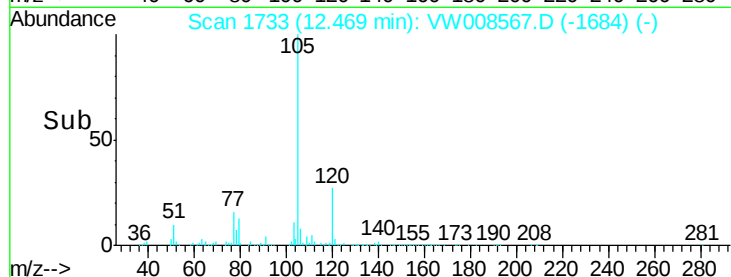
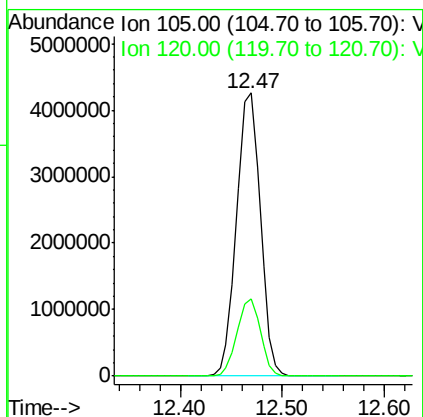
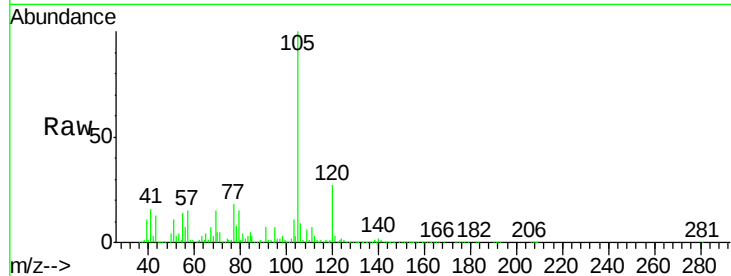
#73
Isopropylbenzene
Concen: 200.170 ug/l
RT: 12.47 min Scan# 1733
Delta R.T. 0.00 min
Lab File: VW008567.D
Acq: 07 Feb 2019 21:44

Instrument :
MSVOA_W
ClientSampleId :
SB-09(13-16)

Tot Ion:105 Resp: 6871954
Ion Ratio Lower Upper
105 100
120 26.7 13.3 39.8

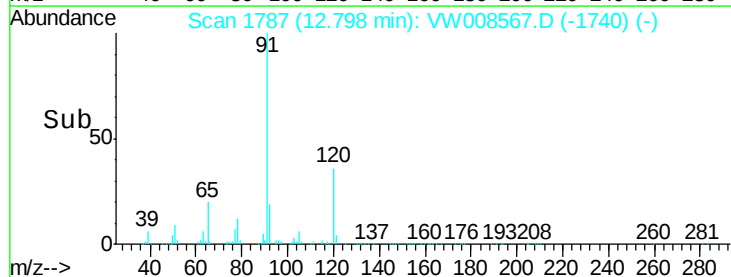
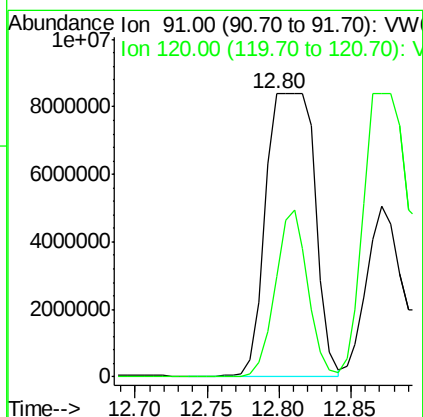
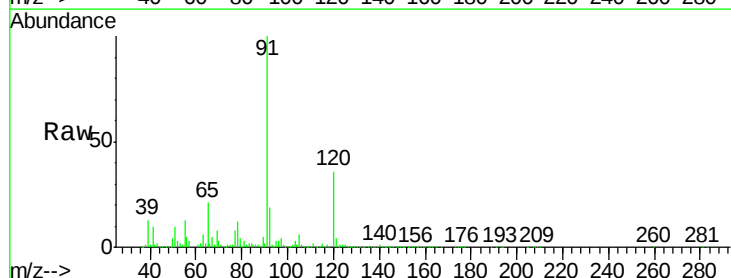
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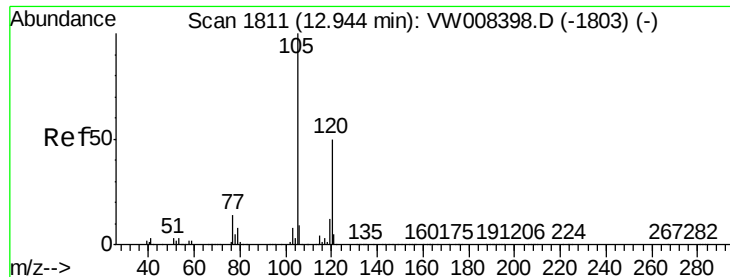
MMDadoda
2/11/2019 12:39:44 PM



#78
n-propylbenzene
Concen: 476.752 ug/l
RT: 12.80 min Scan# 1787
Delta R.T. -0.01 min
Lab File: VW008567.D
Acq: 07 Feb 2019 21:44

Tgt Ion: 91 Resp:19658053
Ion Ratio Lower Upper
91 100
120 39.7 11.4 34.1#





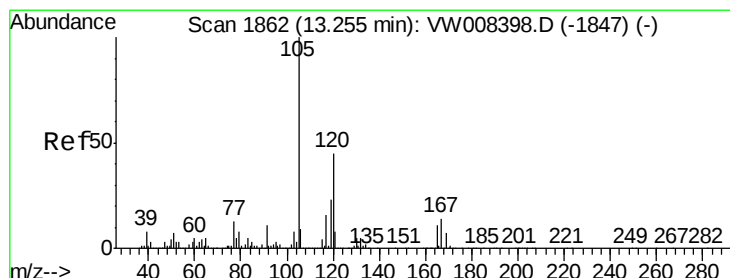
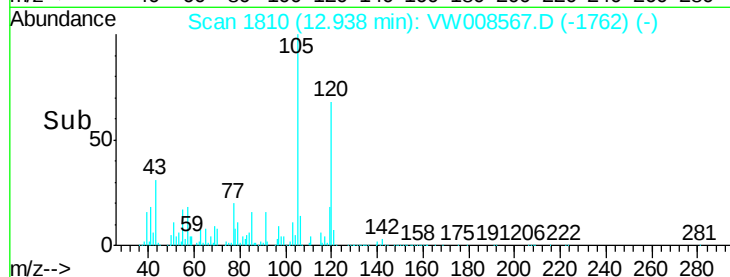
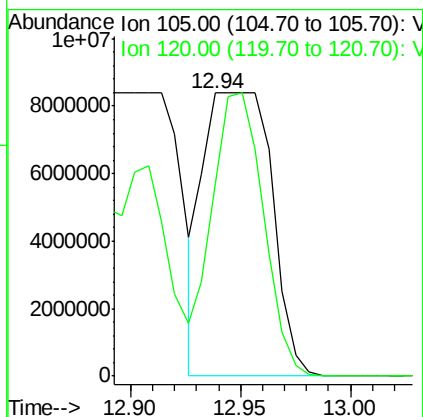
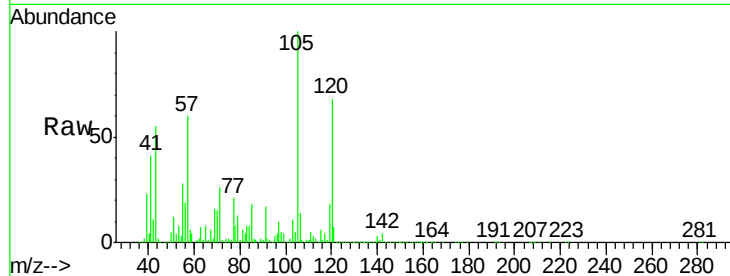
#80
1,3,5-Trimethylbenzene
Concen: 631.760 ug/l m
RT: 12.94 min Scan# 1810
Delta R.T. -0.01 min
Lab File: VW008567.D
Acq: 07 Feb 2019 21:44

Instrument :
MSVOA_W
ClientSampleId :
SB-09(13-16)

Tot Ion:105 Resp:18128138
Ion Ratio Lower Upper
105 100
120 30.1 24.6 73.8

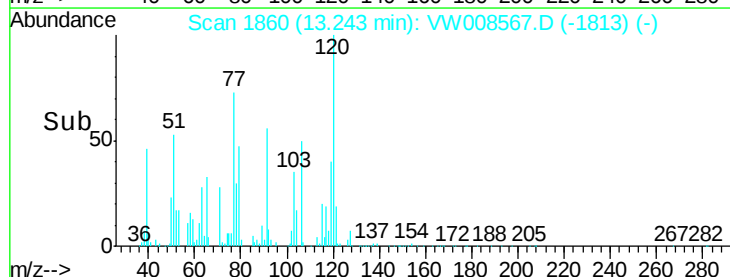
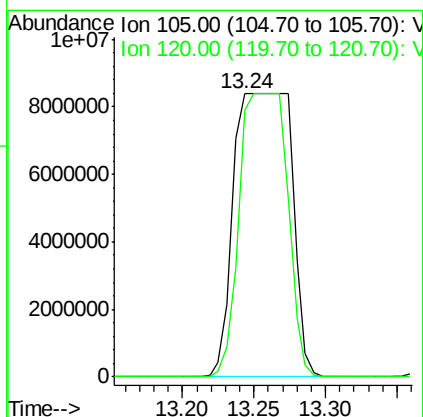
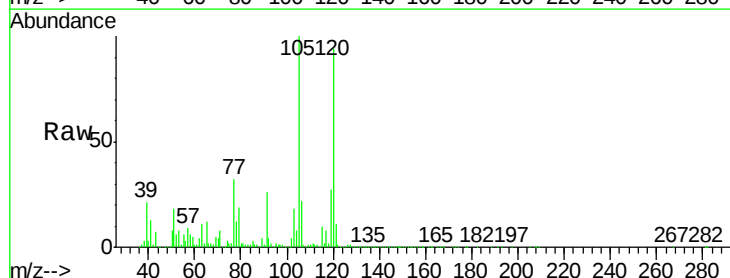
Manual Integrations
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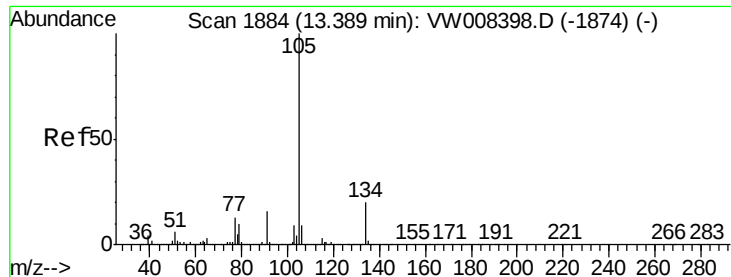
MMDadoda
2/11/2019 12:39:44 PM



#84
1,2,4-Trimethylbenzene
Concen: 807.576 ug/l m
RT: 13.24 min Scan# 1860
Delta R.T. -0.01 min
Lab File: VW008567.D
Acq: 07 Feb 2019 21:44

Tgt Ion:105 Resp:23553688
Ion Ratio Lower Upper
105 100
120 23.2 23.1 69.2





#85

sec-Butylbenzene

Concen: 136.223 ug/l

RT: 13.38 min Scan# 1883

Delta R.T. -0.01 min

Lab File: VW008567.D

Acq: 07 Feb 2019 21:44

Instrument :

MSVOA_W

ClientSampleId :

SB-09(13-16)

Tot Ion:105 Resp: 4967675

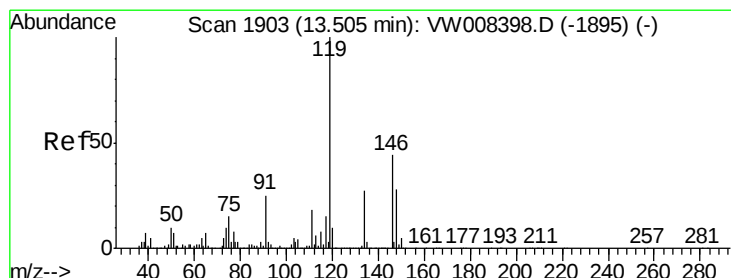
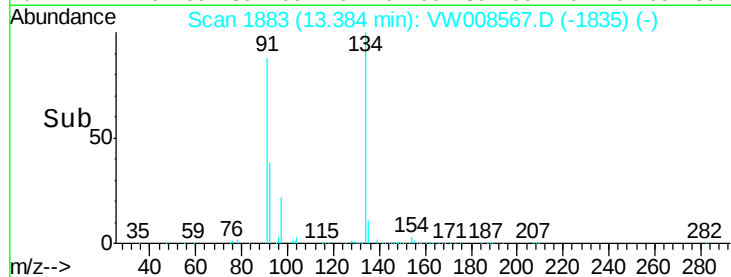
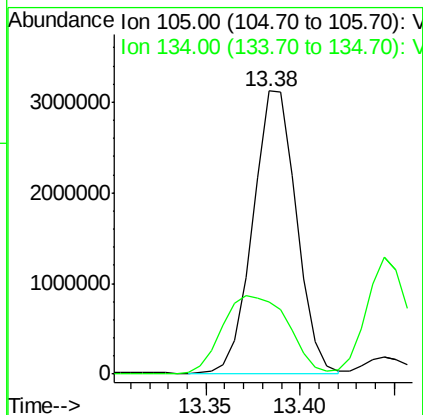
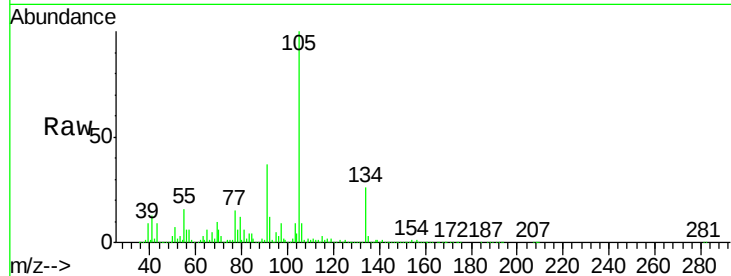
Ion Ratio Lower Upper

105 100

134 42.3 10.2 30.6#

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#86

p-Isopropyltoluene

Concen: 80.934 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. -0.01 min

Lab File: VW008567.D

Acq: 07 Feb 2019 21:44

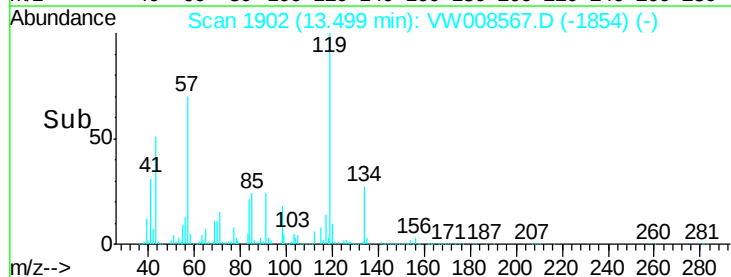
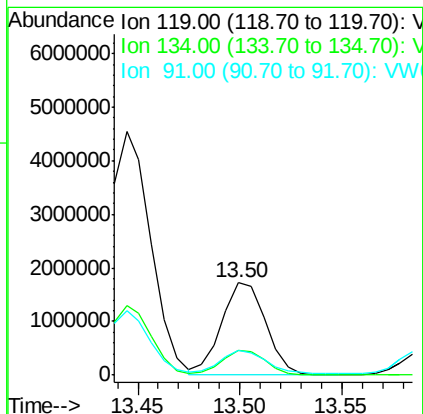
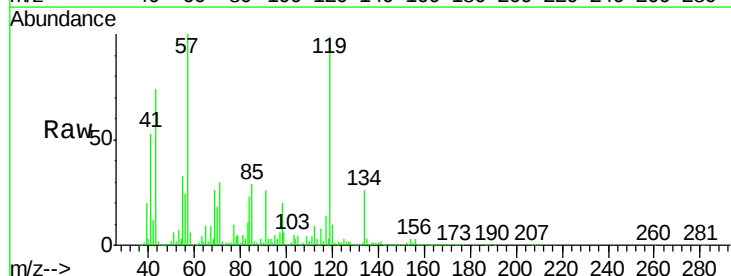
Tgt Ion:119 Resp: 2585294

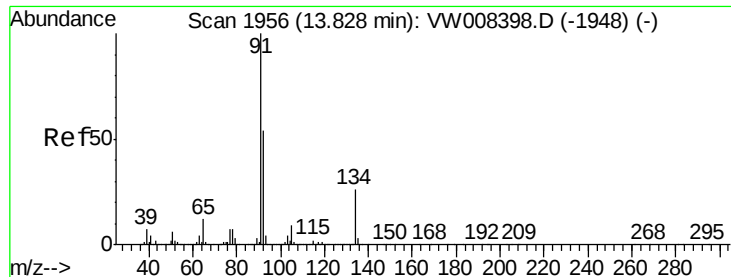
Ion Ratio Lower Upper

119 100

134 26.7 13.4 40.2

91 26.0 12.6 37.6





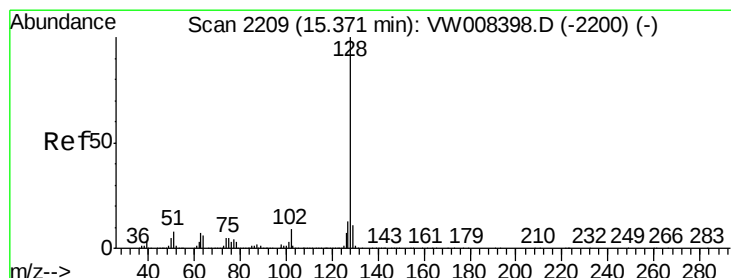
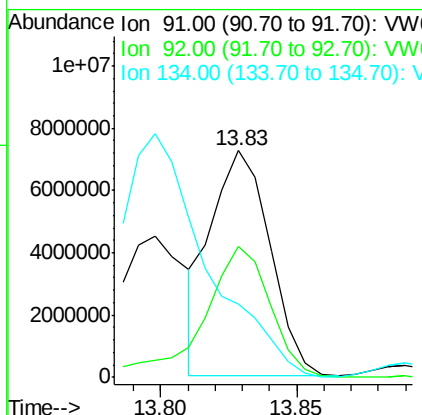
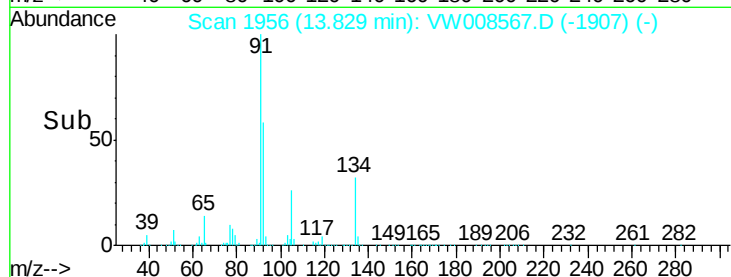
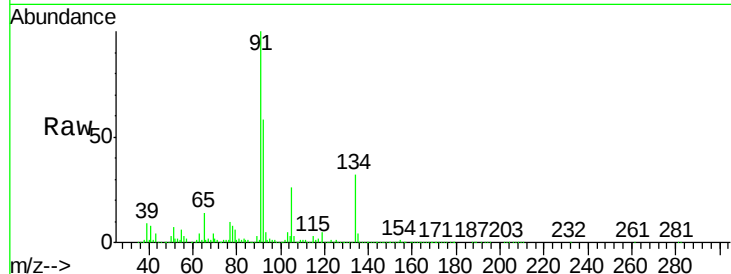
#89
n-Butylbenzene
Concen: 346.147 ug/l
RT: 13.83 min Scan# 1956
Delta R.T. 0.00 min
Lab File: VW008567.D
Acq: 07 Feb 2019 21:44

Instrument :
MSVOA_W
ClientSampled :
SB-09(13-16)

Tot Ion: 91 Resp: 10856542
Ion Ratio Lower Upper
91 100
92 64.9 27.4 82.2
134 0.0 13.0 39.0#

Manual Integrations
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#95
Naphthalene
Concen: 150.503 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. 0.00 min
Lab File: VW008567.D
Acq: 07 Feb 2019 21:44

Tgt Ion: 128 Resp: 2526562
Ion Ratio Lower Upper
128 100
127 14.3 10.6 15.8
129 9.6 8.7 13.1

