

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW121818\
 Data File : VW007609.D
 Acq On : 16 Dec 2018 04:41
 Operator : SY/AP
 Sample : J6378-15
 Misc : 4.02G/5ML/MSVOA_W/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 P001-SD013-0612-01

Manual Integrations
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Quant Time: Dec 17 00:56:59 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W121118S.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 11 02:58:16 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	44840	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	85219	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	47945	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	12178	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	35302	70.96	ug/l	0.00
Spiked Amount 50.000			Recovery	=	141.92%	
35) Dibromofluoromethane	7.88	113	28803	55.83	ug/l	0.00
Spiked Amount 50.000			Recovery	=	111.66%	
50) Toluene-d8	10.32	98	75029	38.79	ug/l	0.00
Spiked Amount 50.000			Recovery	=	77.58%	
62) 4-Bromofluorobenzene	12.62	95	16273	22.88	ug/l	0.00
Spiked Amount 50.000			Recovery	=	45.76%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	4.12	43	6583	75.761	ug/l	98
25) 2-Butanone	7.17	43	5125	45.179	ug/l #	77
31) Cyclohexane	7.95	56	121406	157.098	ug/l	96
39) Methylcyclohexane	9.34	83	207264	220.178	ug/l	90
40) Benzene	8.32	78	7001	3.245	ug/l	93
52) Toluene	10.39	92	84832	60.761	ug/l	99
65) Chlorobenzene	11.66	112	671312	671.765	ug/l	94
67) Ethyl Benzene	11.74	91	1157379	673.631	ug/l	91
68) m/p-Xylenes	11.85	106	11742533	17580.484	ug/l	78
69) o-Xylene	12.17	106	384998	617.179	ug/l	87
73) Isopropylbenzene	12.47	105	170603	182.830	ug/l	96
78) n-propylbenzene	12.81	91	276840	263.621	ug/l	99
80) 1,3,5-Trimethylbenzene	12.95	105	344302	439.129	ug/l	97
83) tert-Butylbenzene	13.21	119	2296m	3.323	ug/l	
84) 1,2,4-Trimethylbenzene	13.25	105	988805	1225.538	ug/l	97
85) sec-Butylbenzene	13.39	105	22722m	24.093	ug/l	
86) p-Isopropyltoluene	13.51	119	185090	218.456	ug/l	97
87) 1,3-Dichlorobenzene	13.51	146	46501	112.759	ug/l	94
88) 1,4-Dichlorobenzene	13.58	146	514736	1241.554	ug/l	97
89) n-Butylbenzene	13.83	91	30275	38.545	ug/l #	74
91) 1,2-Dichlorobenzene	13.87	146	18766	50.806	ug/l	96
95) Naphthalene	15.37	128	477589	982.134	ug/l	99

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

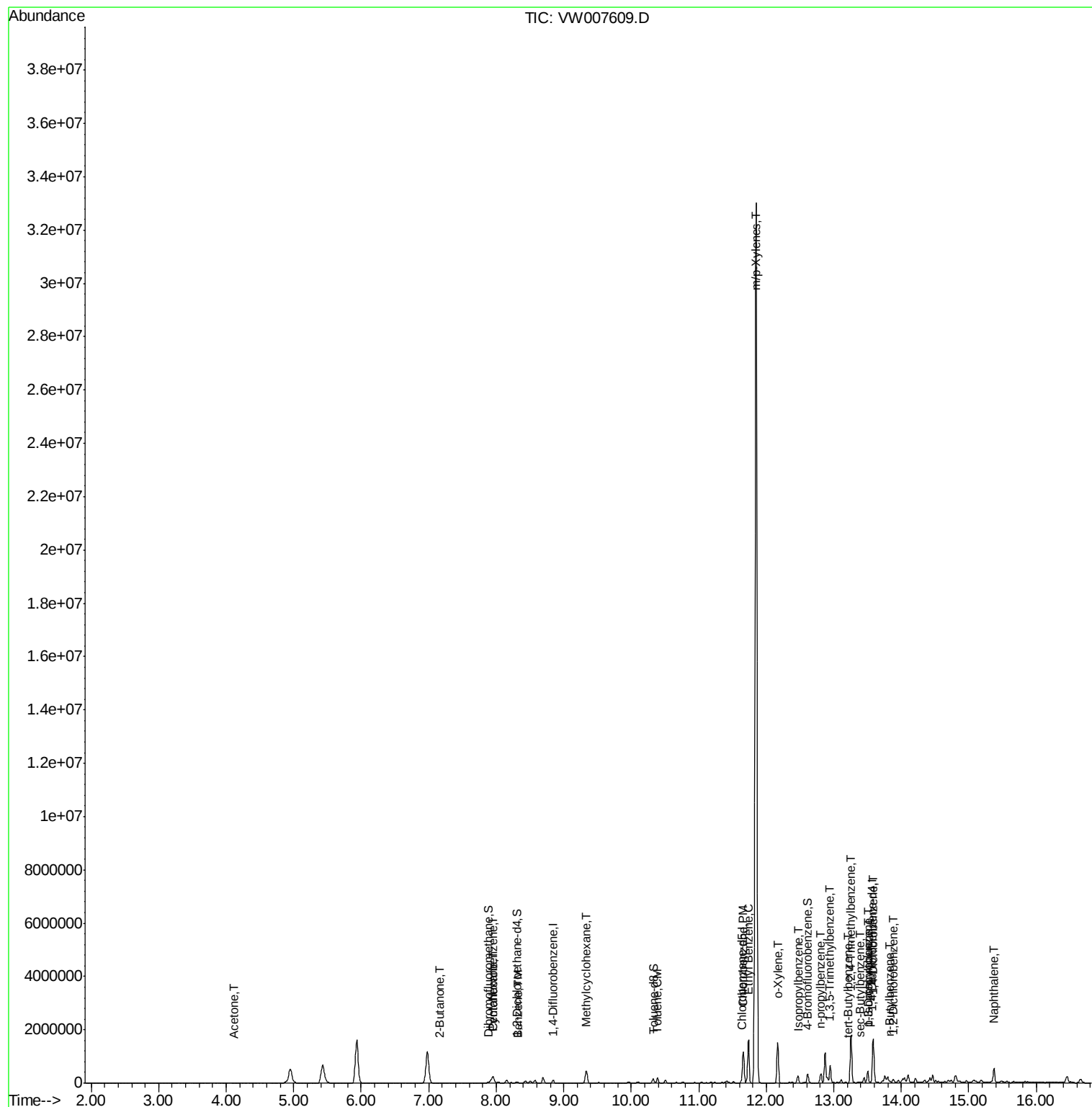
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_W\DATA\VW121818\
Data File : VW007609.D
Acq On : 16 Dec 2018 04:41
Operator : SY/AP
Sample : J6378-15
Misc : 4.02G/5ML/MSVOA_W/SOIL
ALS Vial : 19 Sample Multiplier: 1

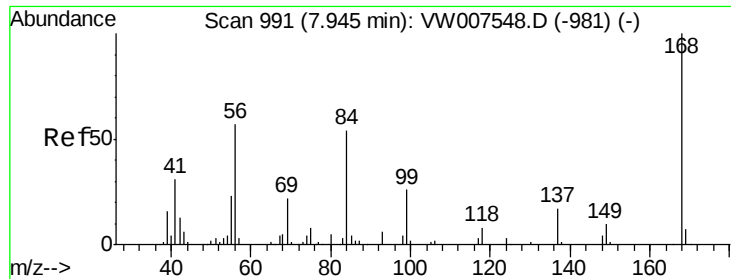
Instrument :
MSVOA_W
ClientSampleId :
P001-SD013-0612-01

Manual Integrations
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Quant Time: Dec 17 00:56:59 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\82W121118S.M
Quant Title : SW846 8260
QLast Update : Tue Dec 11 02:58:16 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW007609.D

Acq: 16 Dec 2018 04:41

Instrument :

MSVOA_W

ClientSampleId :

P001-SD013-0612-01

Tgt Ion: 168 Resp: 44840

Ion Ratio Lower Upper

168 100

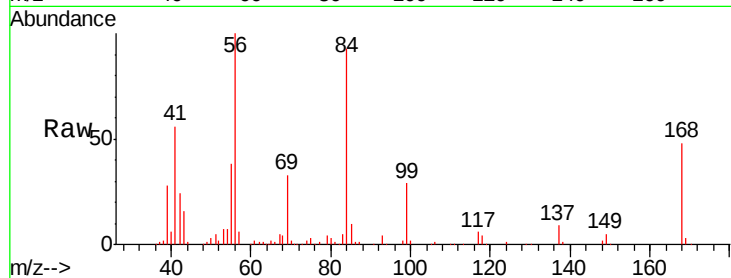
99 59.7 48.3 72.5

Manual Integrations

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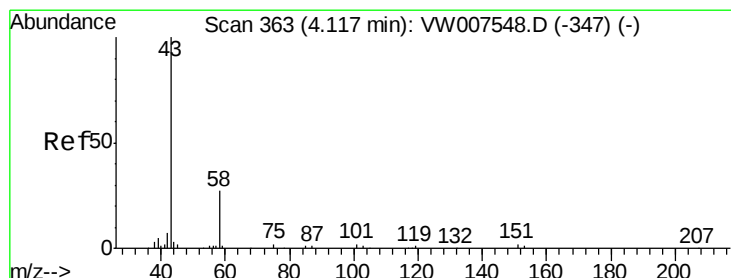
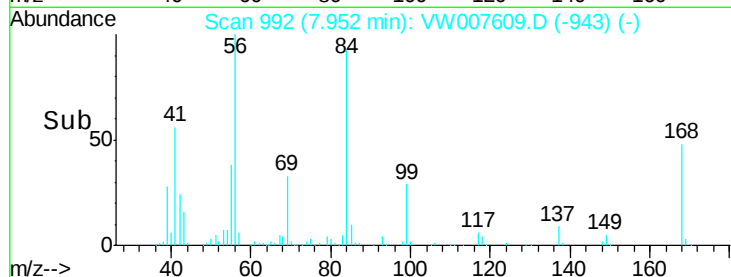
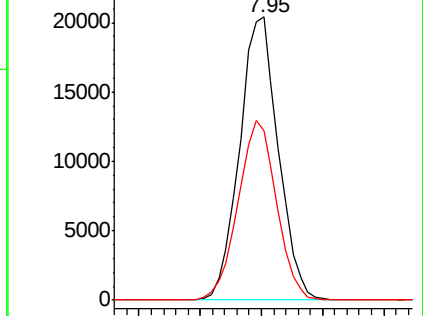
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#16

Acetone

Concen: 75.761 ug/l

RT: 4.12 min Scan# 363

Delta R.T. 0.00 min

Lab File: VW007609.D

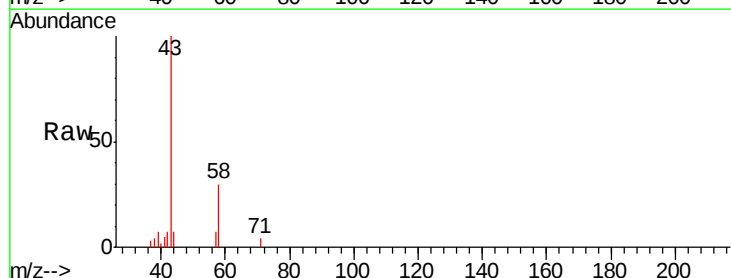
Acq: 16 Dec 2018 04:41

Tgt Ion: 43 Resp: 6583

Ion Ratio Lower Upper

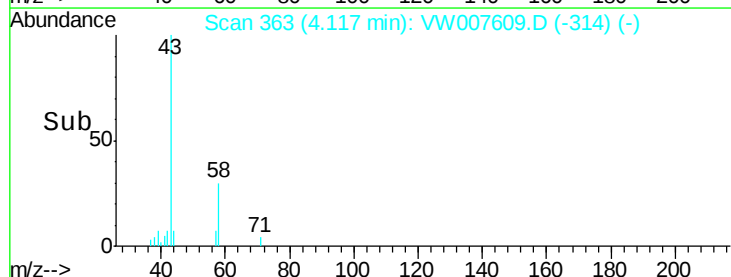
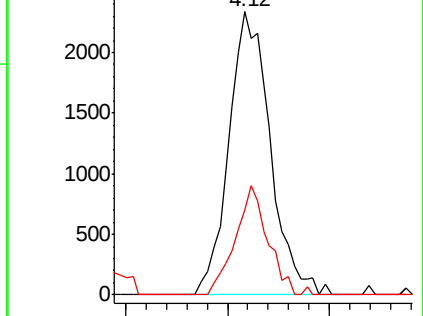
43 100

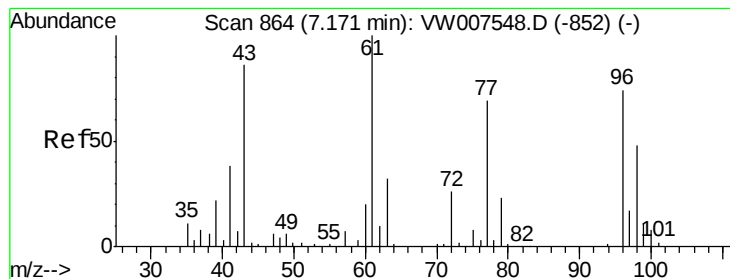
58 29.9 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





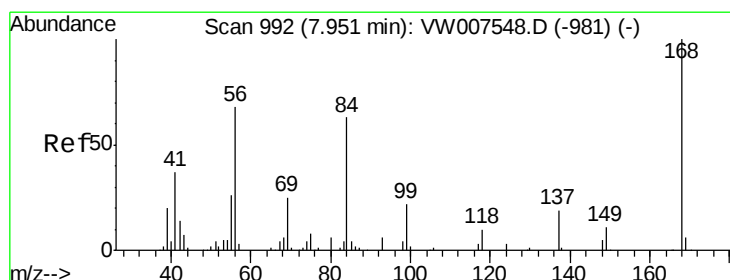
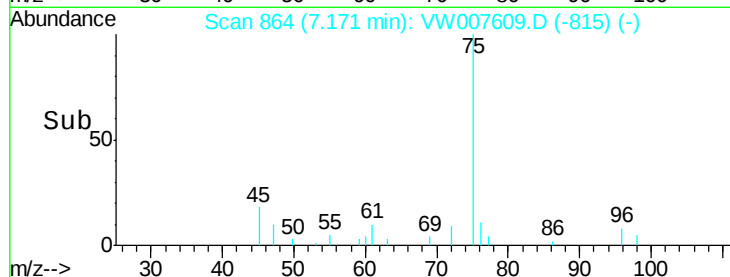
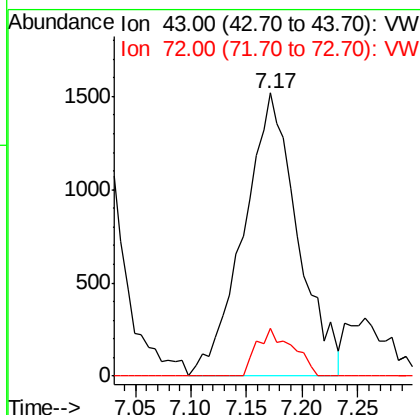
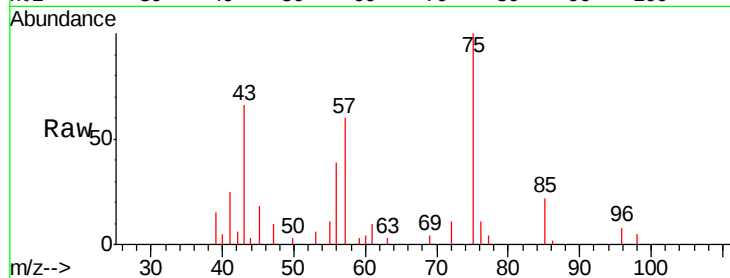
#25
2-Butanone
Concen: 45.179 ug/l
RT: 7.17 min Scan# 864
Delta R.T. 0.00 min
Lab File: VW007609.D
Acq: 16 Dec 2018 04:41

Instrument :
MSVOA_W
ClientSampleId :
P001-SD013-0612-01

Tgt Ion: 43 Resp: 5125
Ion Ratio Lower Upper
43 100
72 17.0 23.4 35.2#

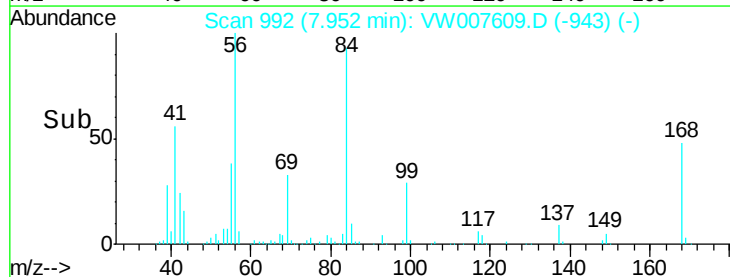
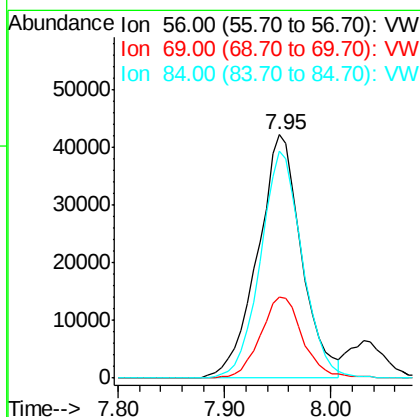
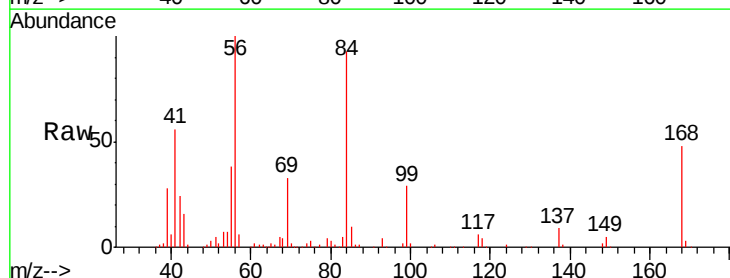
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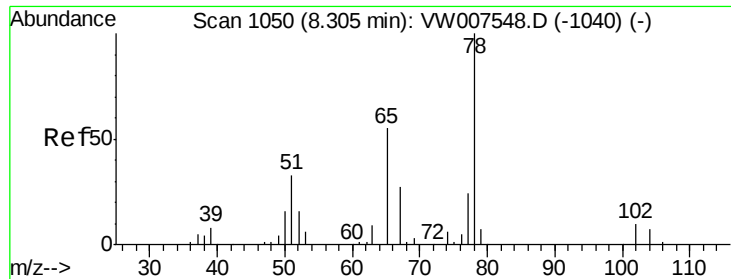
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#31
Cyclohexane
Concen: 157.098 ug/l
RT: 7.95 min Scan# 992
Delta R.T. 0.00 min
Lab File: VW007609.D
Acq: 16 Dec 2018 04:41

Tgt Ion: 56 Resp: 121406
Ion Ratio Lower Upper
56 100
69 33.2 28.9 43.3
84 93.1 71.8 107.6





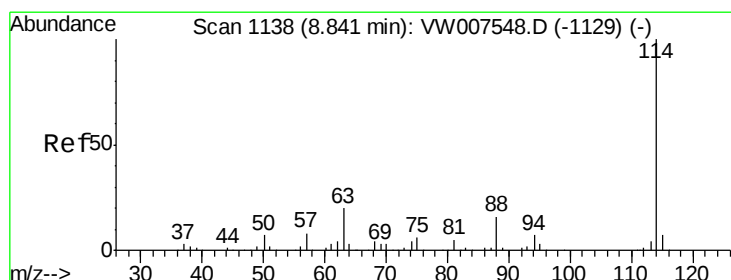
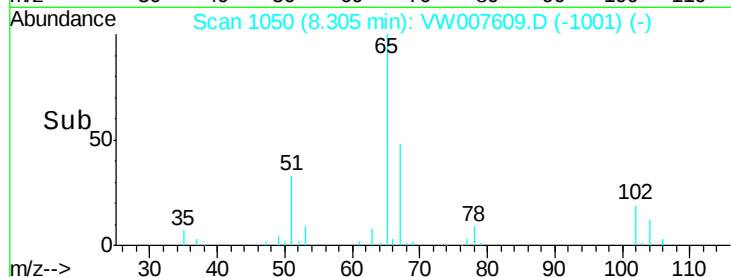
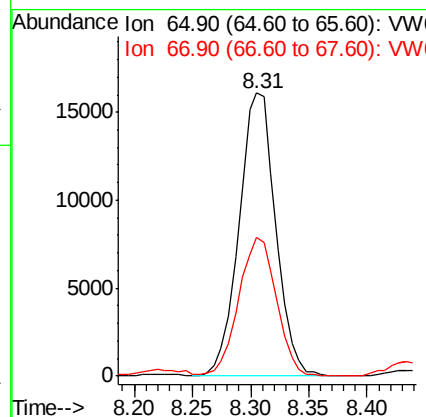
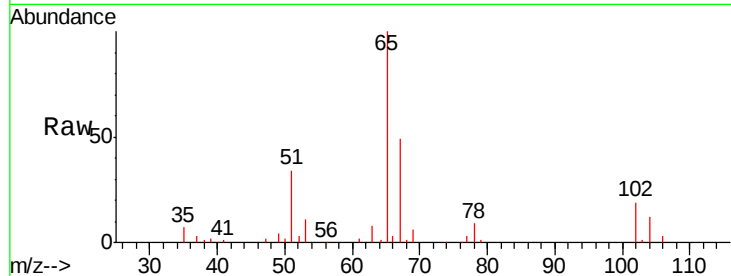
#33
 1,2-Dichloroethane-d4
 Concen: 70.964 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. 0.00 min
 Lab File: VW007609.D
 Acq: 16 Dec 2018 04:41

Instrument :
 MSVOA_W
 ClientSampleId :
 P001-SD013-0612-01

Tgt Ion: 65 Resp: 35302
 Ion Ratio Lower Upper
 65 100
 67 50.5 0.0 101.6

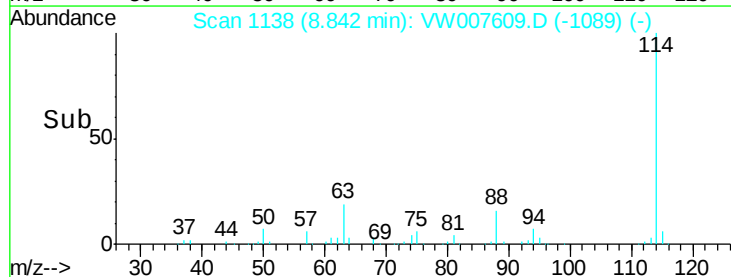
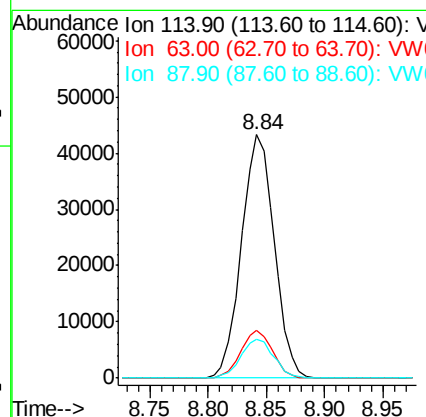
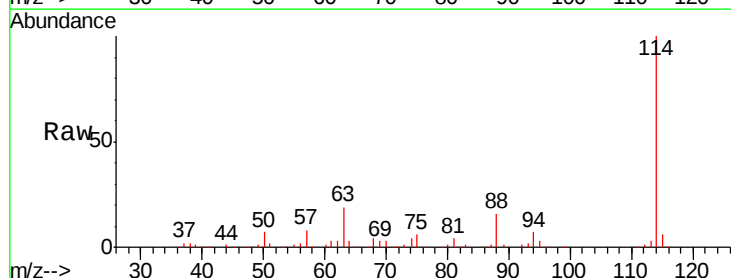
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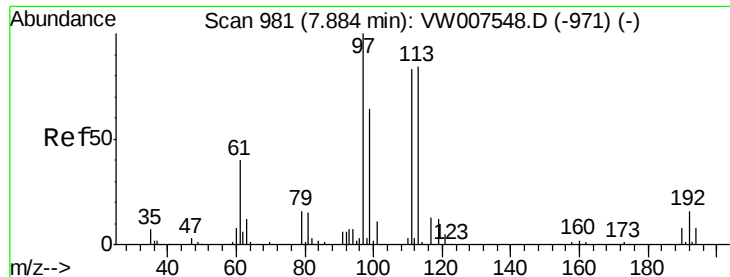
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW007609.D
 Acq: 16 Dec 2018 04:41

Tgt Ion: 114 Resp: 85219
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 39.6
 88 15.8 0.0 31.4





#35

Dibromofluoromethane

Concen: 55.834 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.00 min

Lab File: VW007609.D

Acq: 16 Dec 2018 04:41

Instrument :

MSVOA_W

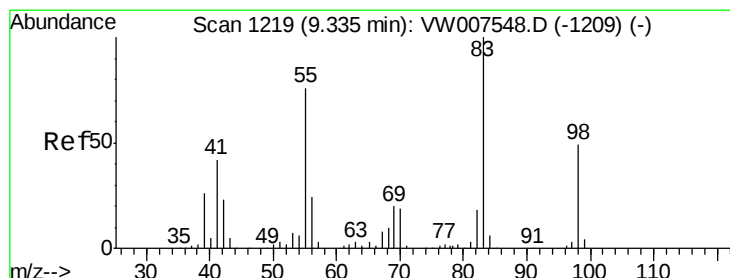
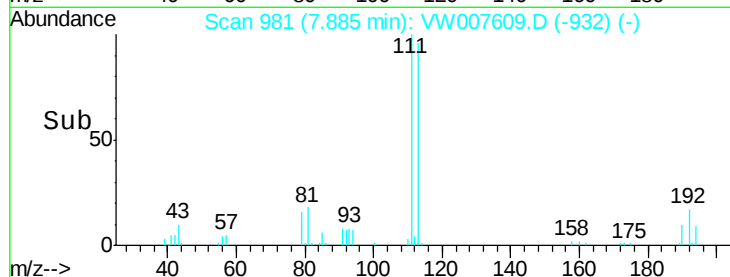
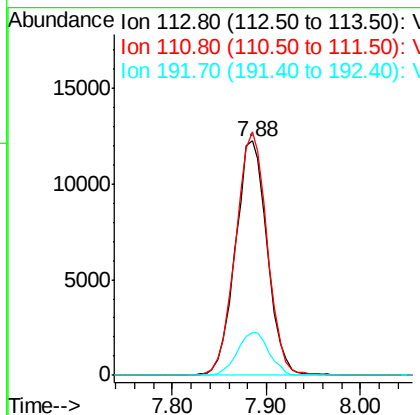
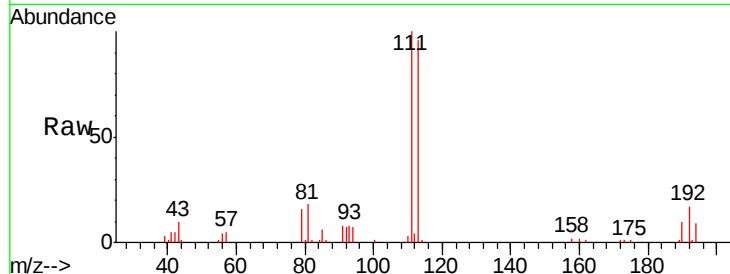
ClientSampleId :

P001-SD013-0612-01

Tgt Ion:	113	Resp:	28803
Ion	Ratio	Lower	Upper
113	100		
111	103.1	81.1	121.7
192	18.2	14.6	21.8

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#39

Methylcyclohexane

Concen: 220.178 ug/l

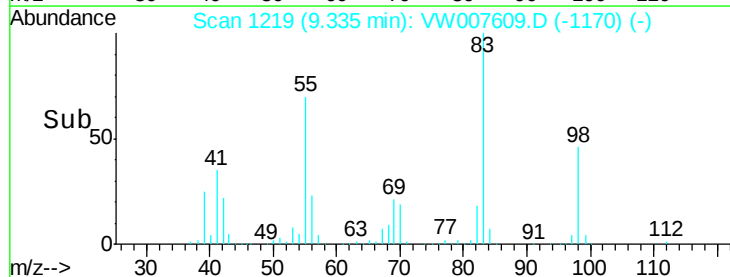
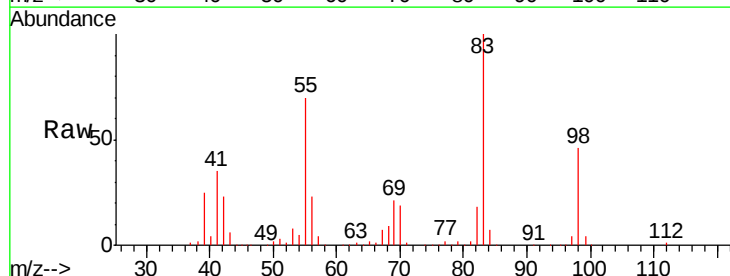
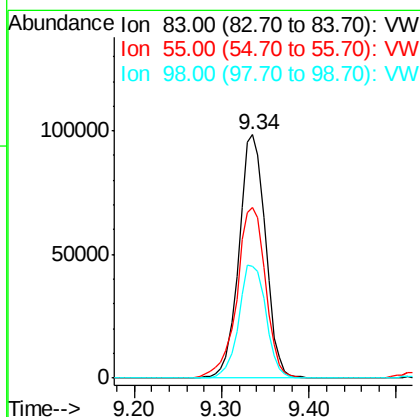
RT: 9.34 min Scan# 1219

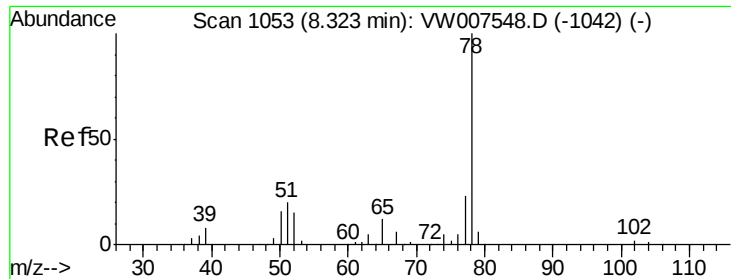
Delta R.T. 0.00 min

Lab File: VW007609.D

Acq: 16 Dec 2018 04:41

Tgt Ion:	83	Resp:	207264
Ion	Ratio	Lower	Upper
83	100		
55	69.8	62.8	94.2
98	45.9	42.2	63.2





#40

Benzene

Concen: 3.245 ug/l

RT: 8.32 min Scan# 1053

Delta R.T. 0.00 min

Lab File: VW007609.D

Acq: 16 Dec 2018 04:41

Instrument :

MSVOA_W

ClientSampleId :

P001-SD013-0612-01

Tgt Ion: 78 Resp: 7001

Ion Ratio Lower Upper

78 100

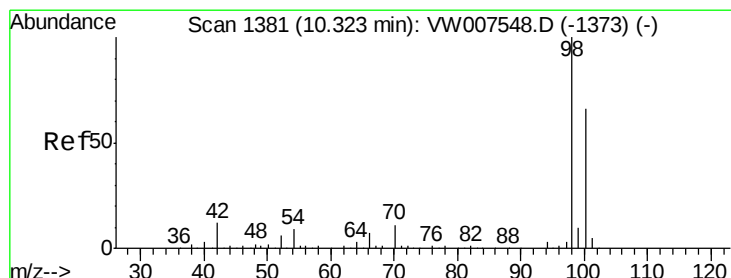
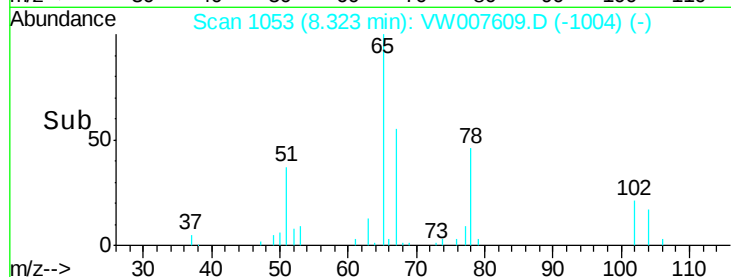
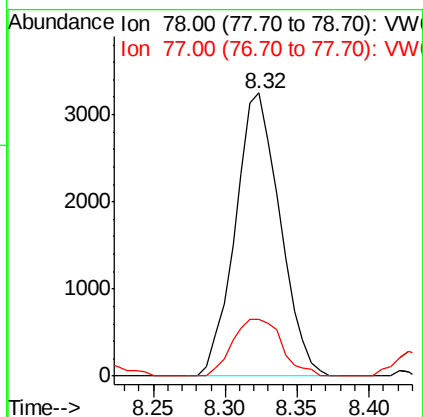
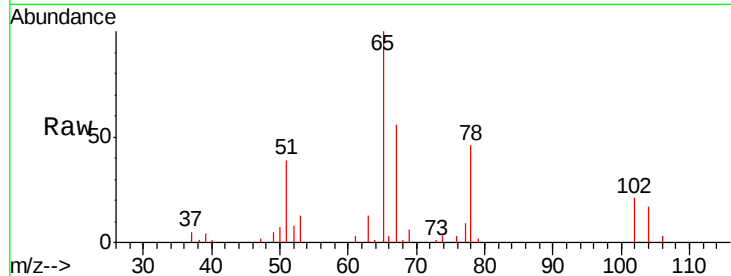
77 20.1 18.8 28.2

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#50

Toluene-d8

Concen: 38.791 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW007609.D

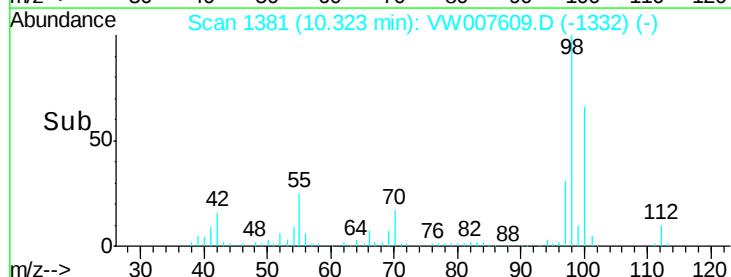
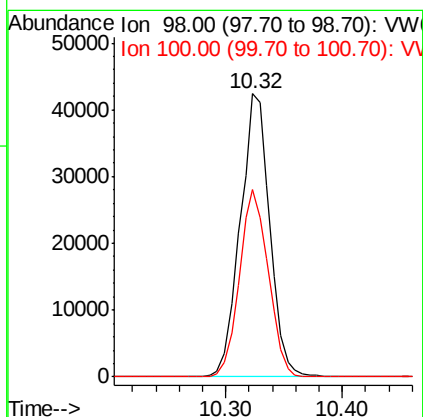
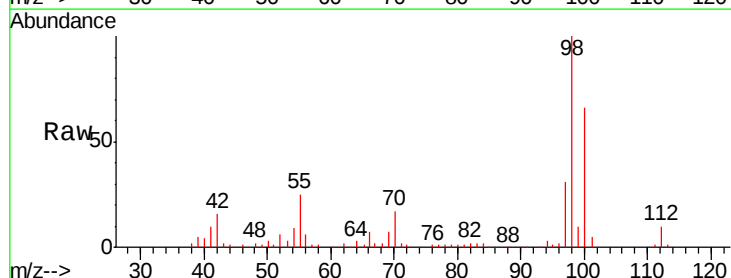
Acq: 16 Dec 2018 04:41

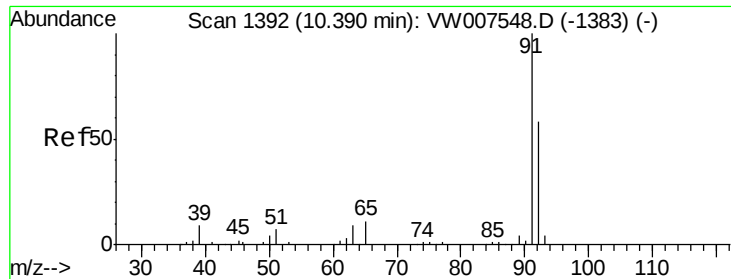
Tgt Ion: 98 Resp: 75029

Ion Ratio Lower Upper

98 100

100 64.5 51.8 77.8





#52

Toluene

Concen: 60.761 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW007609.D

Acq: 16 Dec 2018 04:41

Instrument :

MSVOA_W

ClientSampleId :

P001-SD013-0612-01

Tgt Ion: 92 Resp: 84832

Ion Ratio Lower Upper

92 100

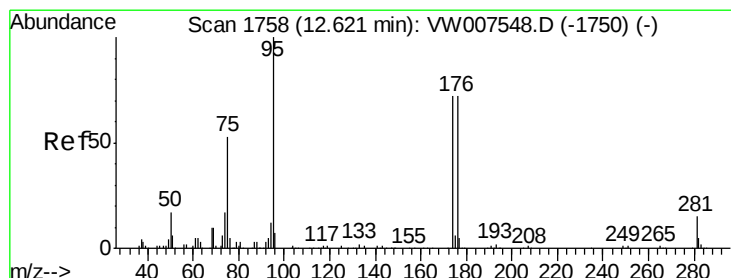
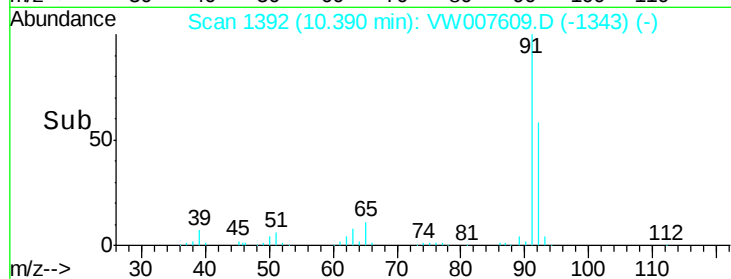
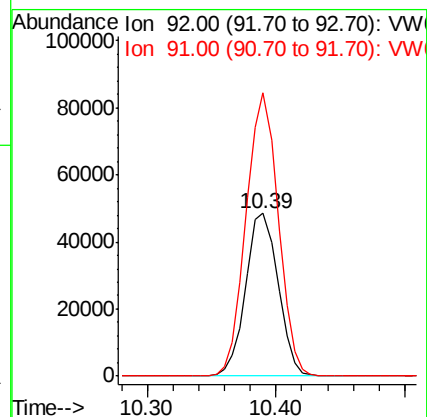
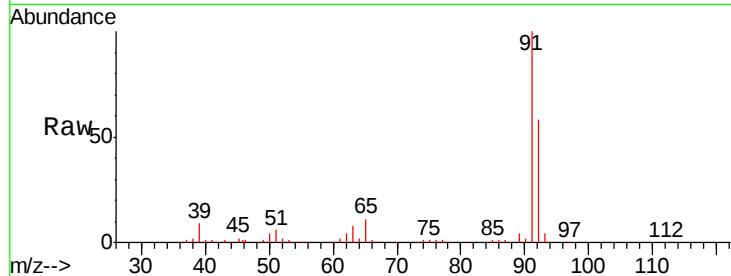
91 171.9 136.2 204.2

Manual Integrations

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#62

4-Bromofluorobenzene

Concen: 22.882 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW007609.D

Acq: 16 Dec 2018 04:41

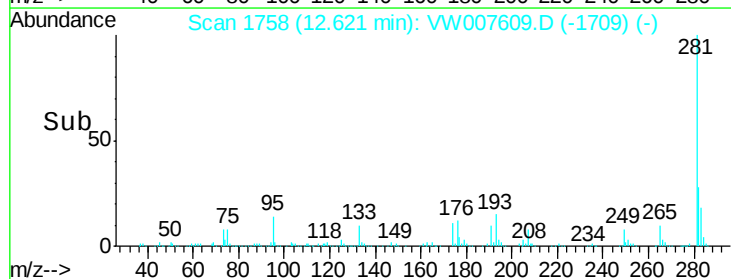
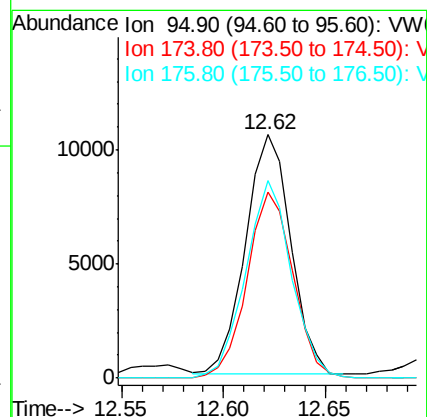
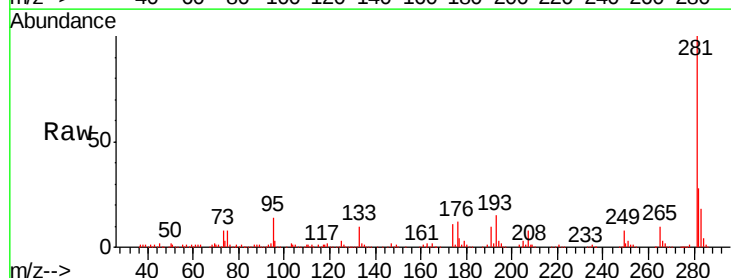
Tgt Ion: 95 Resp: 16273

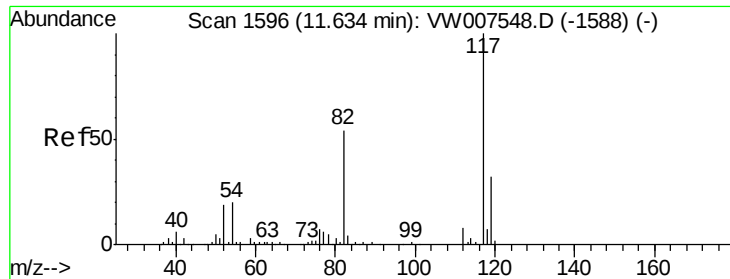
Ion Ratio Lower Upper

95 100

174 78.4 0.0 147.2

176 83.1 0.0 138.8





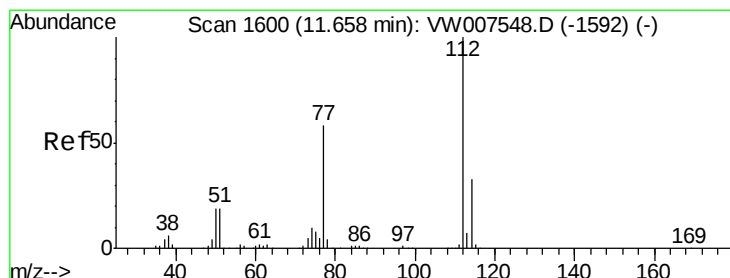
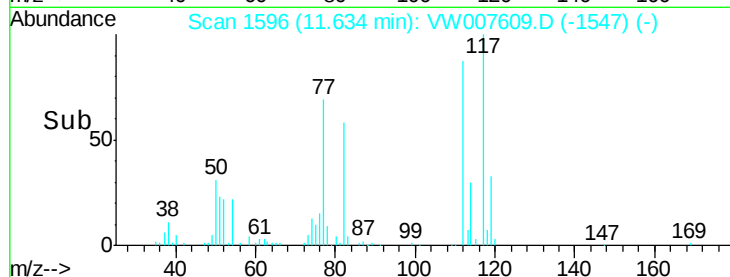
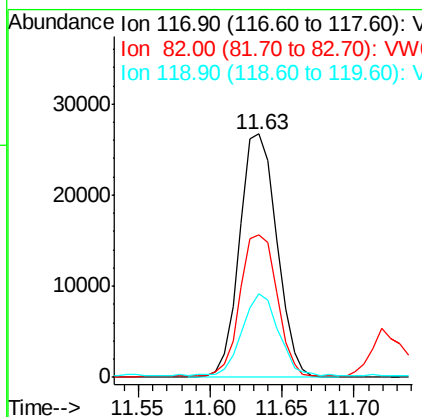
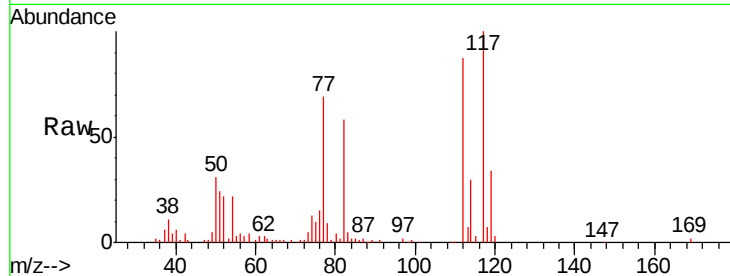
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW007609.D
Acq: 16 Dec 2018 04:41

Instrument :
MSVOA_W
ClientSampleId :
P001-SD013-0612-01

Tgt Ion	Ratio	Lower	Upper
117	100		
82	57.8	42.3	63.5
119	33.4	23.0	34.6

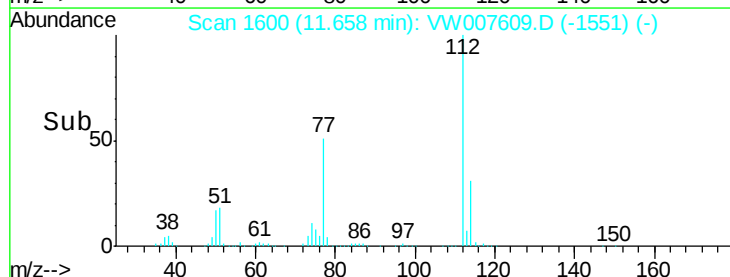
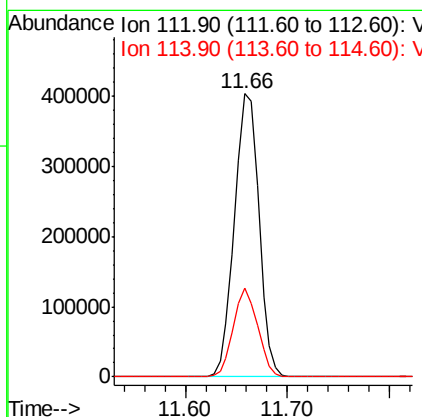
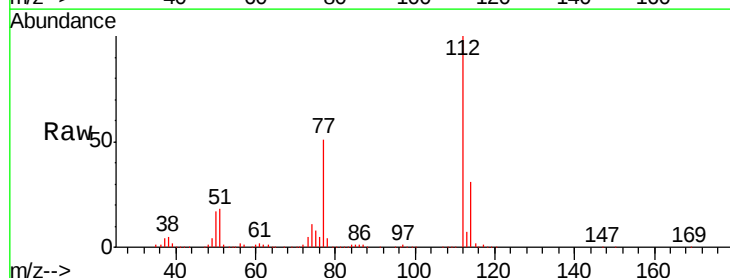
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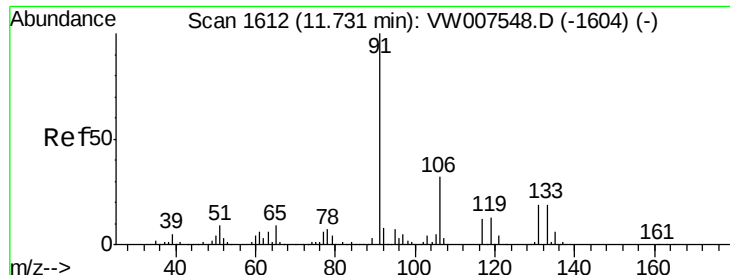
apatel
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#65
Chlorobenzene
Concen: 671.765 ug/l
RT: 11.66 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VW007609.D
Acq: 16 Dec 2018 04:41

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.2	27.8	41.8





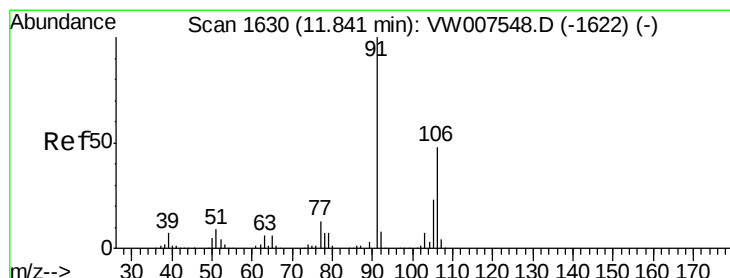
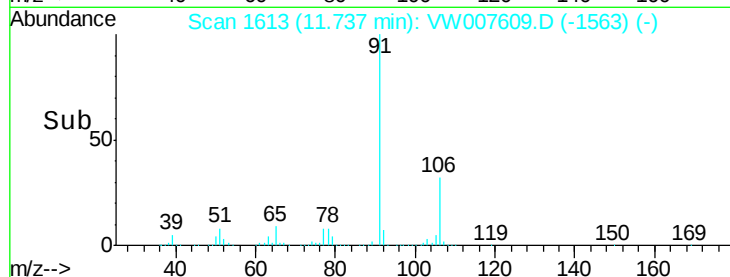
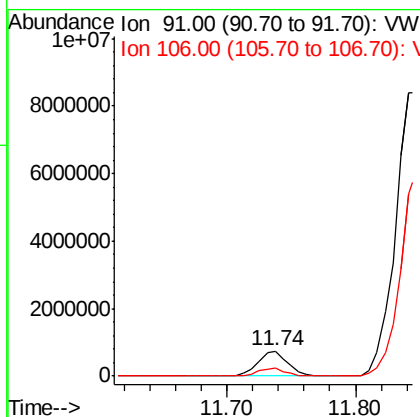
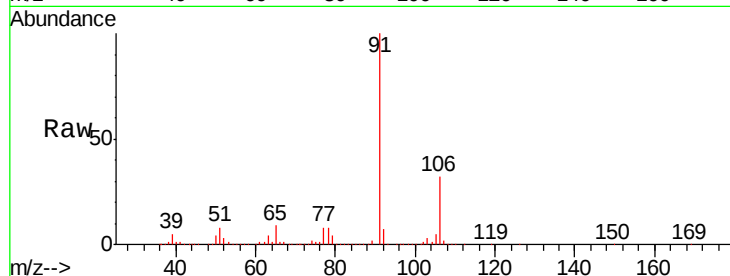
#67
Ethyl Benzene
Concen: 673.631 ug/l
RT: 11.74 min Scan# 1613
Delta R.T. 0.01 min
Lab File: VW007609.D
Acq: 16 Dec 2018 04:41

Instrument :
MSVOA_W
ClientSampleId :
P001-SD013-0612-01

Tgt Ion: 91 Resp: 1157379
Ion Ratio Lower Upper
91 100
106 32.0 21.8 32.8

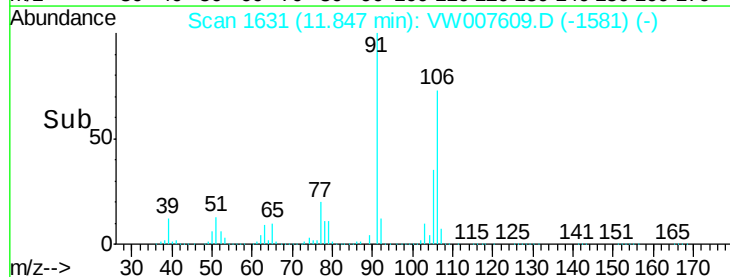
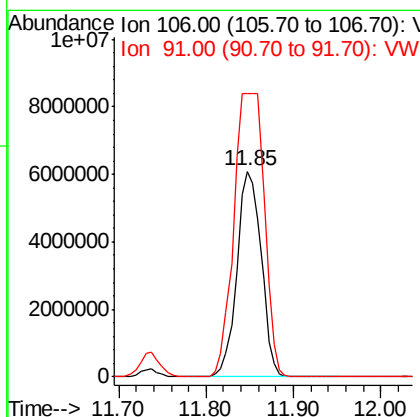
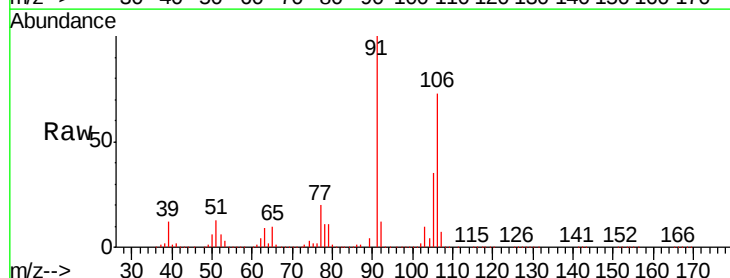
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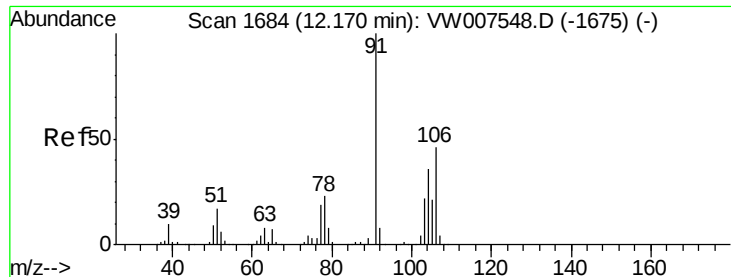
apatel
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#68
m/p-Xylenes
Concen: 17580.484 ug/l
RT: 11.85 min Scan# 1631
Delta R.T. 0.01 min
Lab File: VW007609.D
Acq: 16 Dec 2018 04:41

Tgt Ion: 106 Resp: 11742533
Ion Ratio Lower Upper
106 100
91 173.3 165.3 247.9





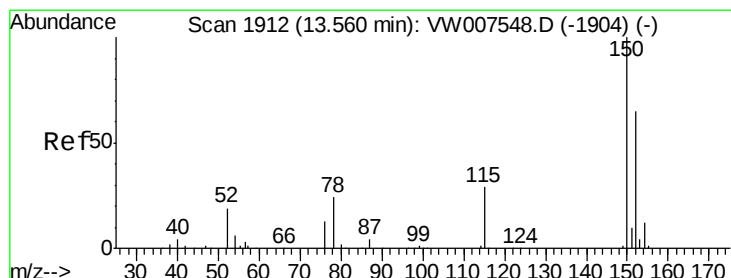
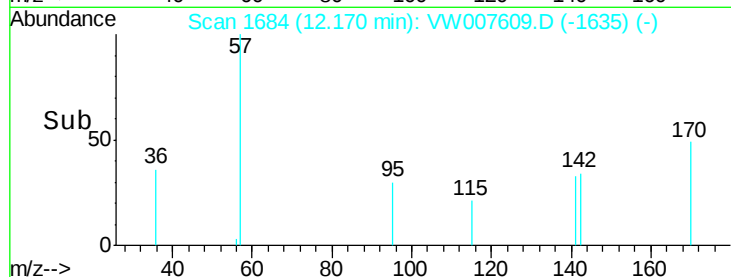
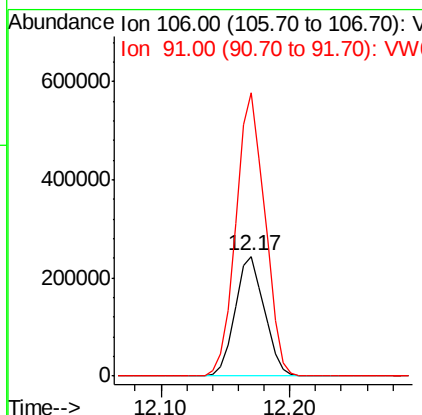
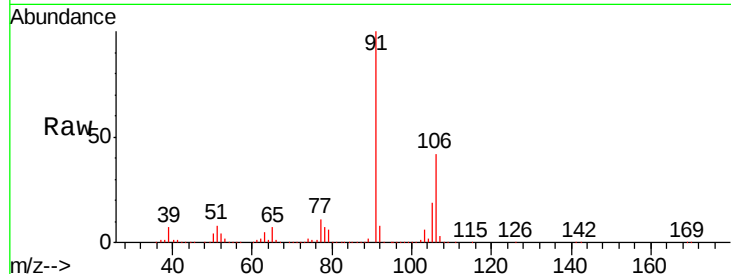
#69
o-Xylene
Concen: 617.179 ug/l
RT: 12.17 min Scan# 1684
Delta R.T. 0.00 min
Lab File: VW007609.D
Acq: 16 Dec 2018 04:41

Instrument :
MSVOA_W
ClientSampleId :
P001-SD013-0612-01

Tgt Ion:106 Resp: 384998
Ion Ratio Lower Upper
106 100
91 233.9 106.6 319.8

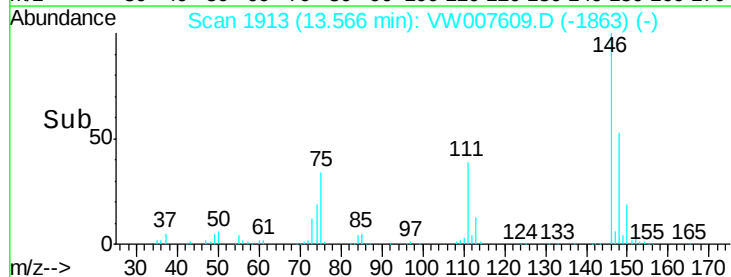
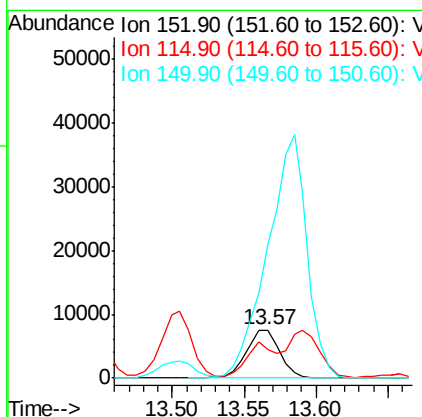
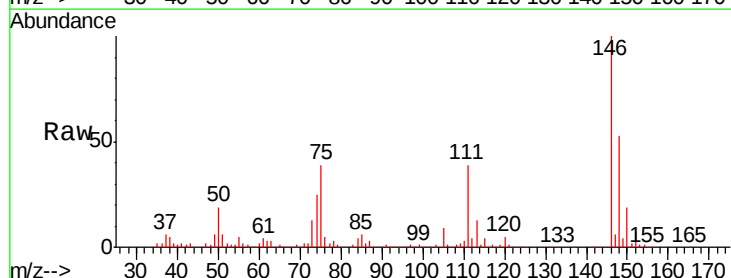
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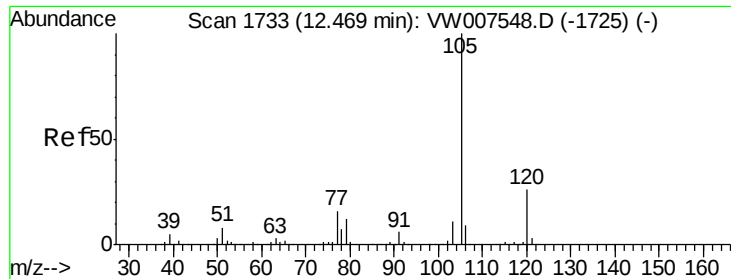
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.57 min Scan# 1913
Delta R.T. 0.01 min
Lab File: VW007609.D
Acq: 16 Dec 2018 04:41

Tgt Ion:152 Resp: 12178
Ion Ratio Lower Upper
152 100
115 57.8 31.4 94.2
150 0.0 0.0 358.4





#73

Isopropylbenzene

Concen: 182.830 ug/l

RT: 12.47 min Scan# 1733

Delta R.T. 0.01 min

Lab File: VW007609.D

Acq: 16 Dec 2018 04:41

Instrument :

MSVOA_W

ClientSampleId :

P001-SD013-0612-01

Tgt Ion: 105 Resp: 170603

Ion Ratio Lower Upper

105 100

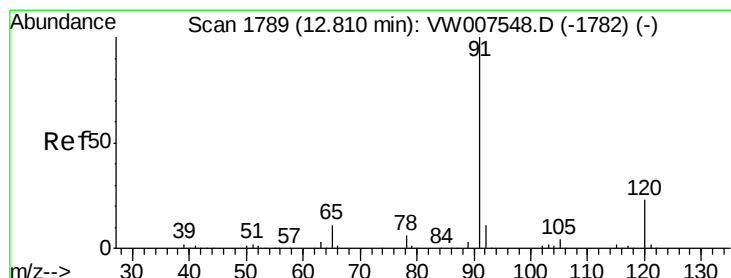
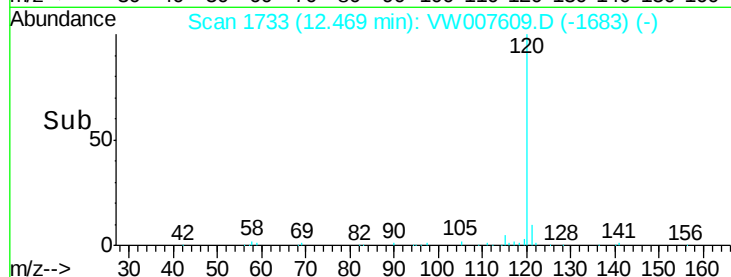
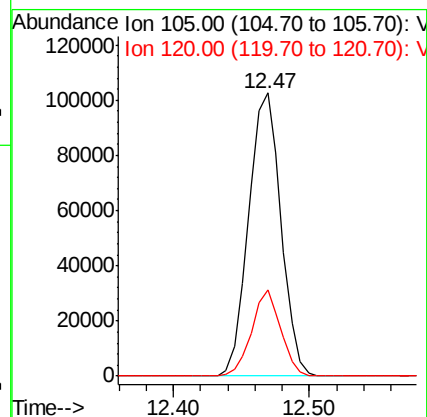
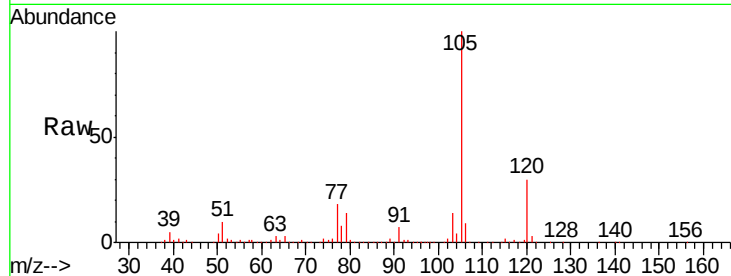
120 27.4 12.8 38.4

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#78

n-propylbenzene

Concen: 263.621 ug/l

RT: 12.81 min Scan# 1789

Delta R.T. 0.01 min

Lab File: VW007609.D

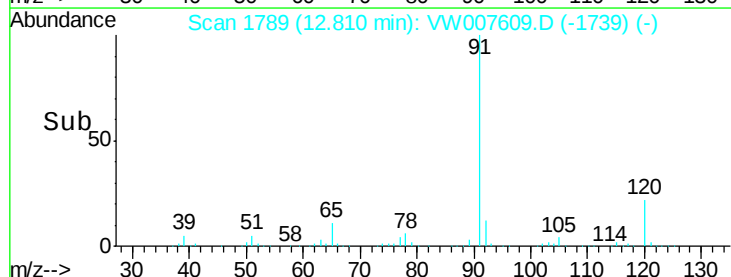
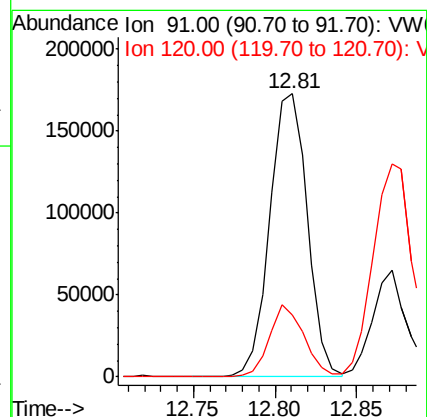
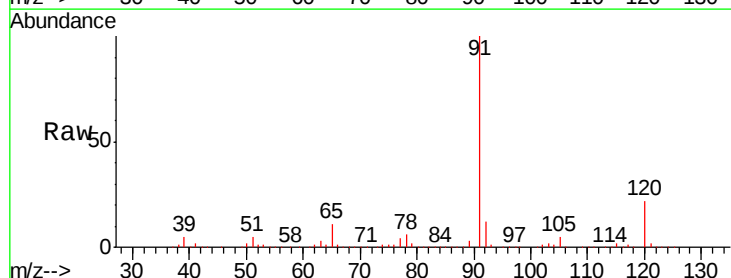
Acq: 16 Dec 2018 04:41

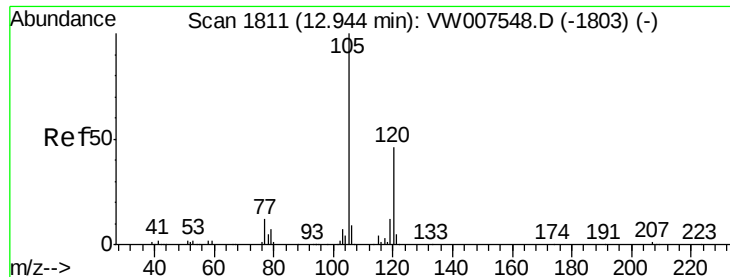
Tgt Ion: 91 Resp: 276840

Ion Ratio Lower Upper

91 100

120 23.4 11.9 35.5





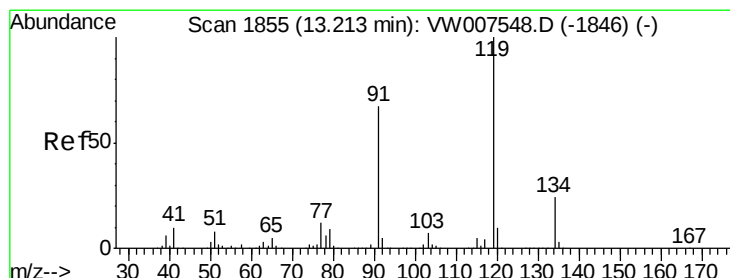
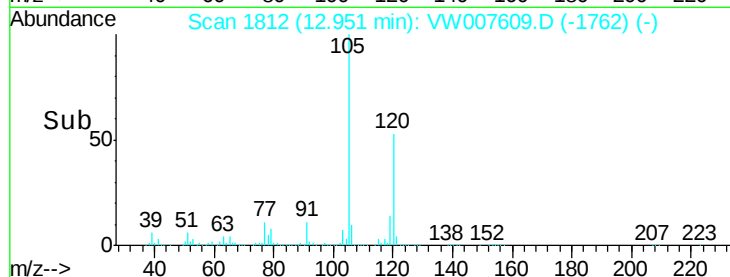
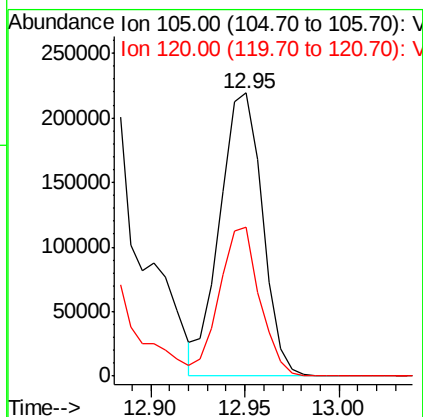
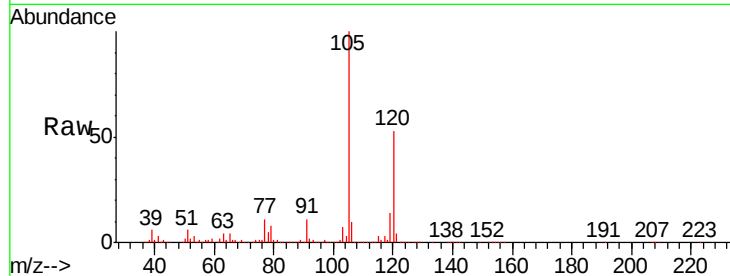
#80
1,3,5-Trimethylbenzene
Concen: 439.129 ug/l
RT: 12.95 min Scan# 1812
Delta R.T. 0.01 min
Lab File: VW007609.D
Acq: 16 Dec 2018 04:41

Instrument :
MSVOA_W
ClientSampleId :
P001-SD013-0612-01

Tgt Ion:105 Resp: 344302
Ion Ratio Lower Upper
105 100
120 49.9 23.8 71.4

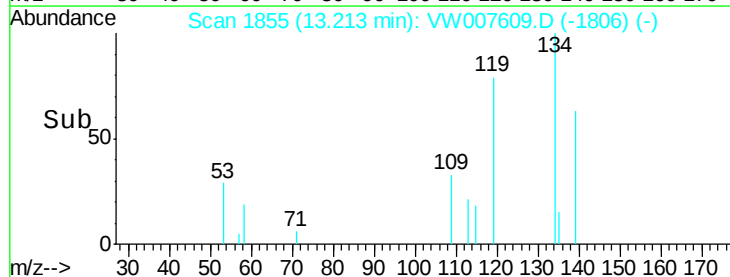
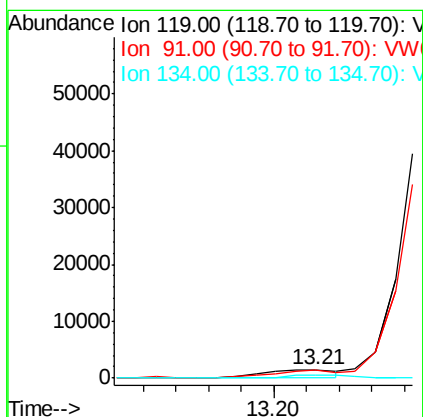
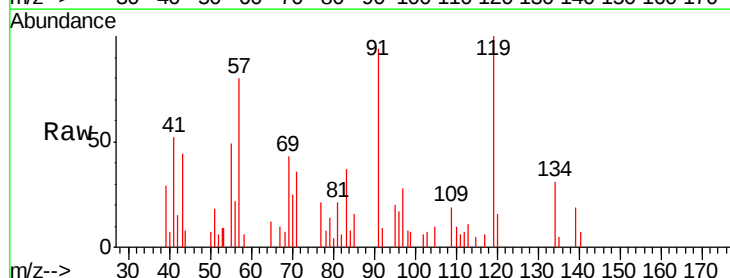
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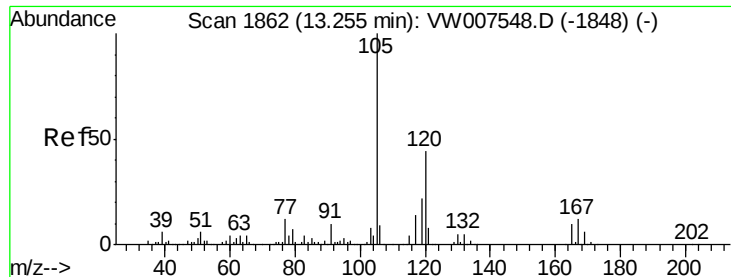
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#83
tert-Butylbenzene
Concen: 3.323 ug/l m
RT: 13.21 min Scan# 1855
Delta R.T. 0.00 min
Lab File: VW007609.D
Acq: 16 Dec 2018 04:41

Tgt Ion:119 Resp: 2296
Ion Ratio Lower Upper
119 100
91 5132.4 33.1 99.2#
134 0.0 12.5 37.5#





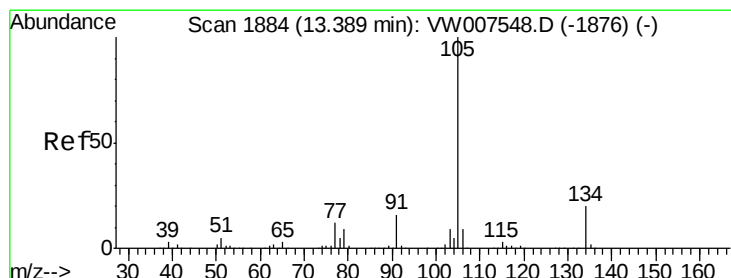
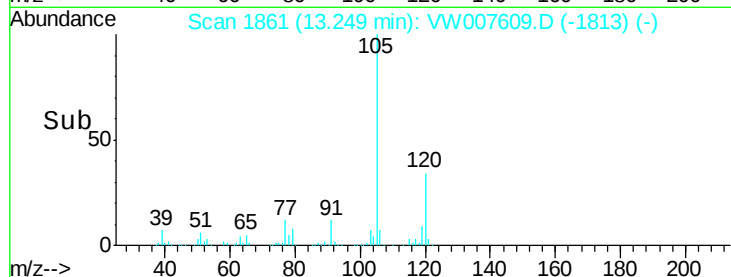
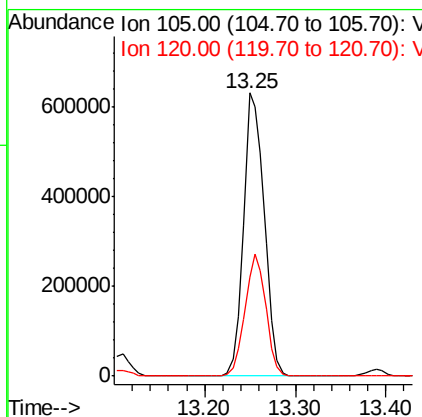
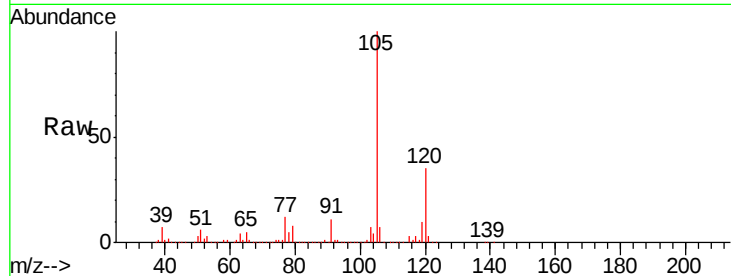
#84
1,2,4-Trimethylbenzene
Concen: 1225.538 ug/l
RT: 13.25 min Scan# 1861
Delta R.T. -0.01 min
Lab File: VW007609.D
Acq: 16 Dec 2018 04:41

Instrument :
MSVOA_W
ClientSampleId :
P001-SD013-0612-01

Tgt Ion:105 Resp: 988805
Ion Ratio Lower Upper
105 100
120 43.4 22.6 67.7

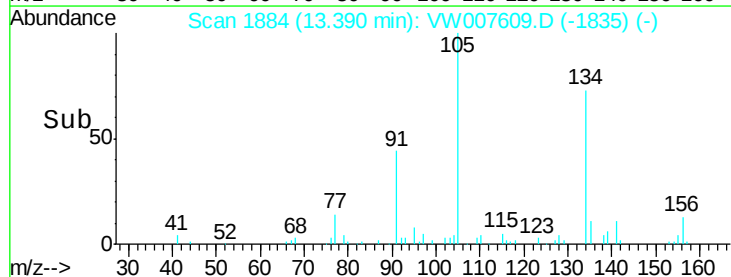
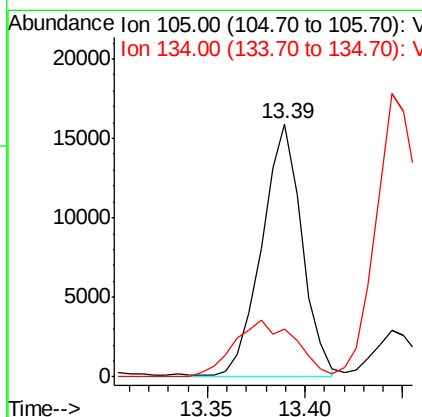
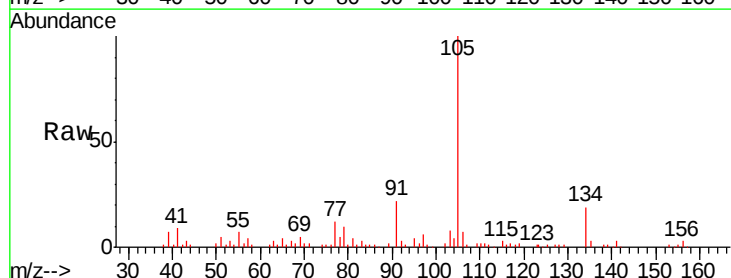
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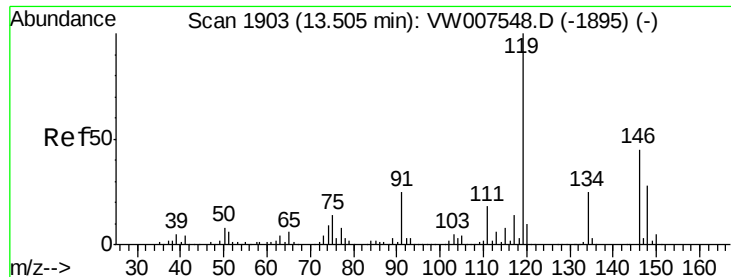
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#85
sec-Butylbenzene
Concen: 24.093 ug/l m
RT: 13.39 min Scan# 1884
Delta R.T. 0.00 min
Lab File: VW007609.D
Acq: 16 Dec 2018 04:41

Tgt Ion:105 Resp: 22722
Ion Ratio Lower Upper
105 100
134 0.0 11.1 33.3#





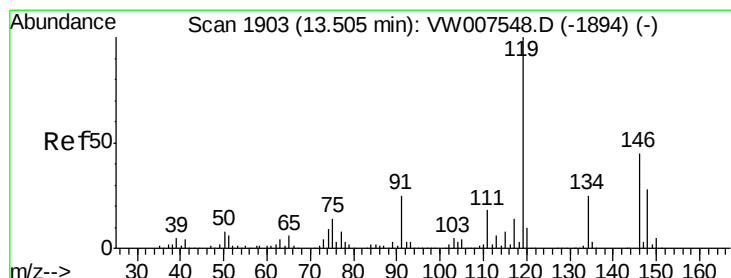
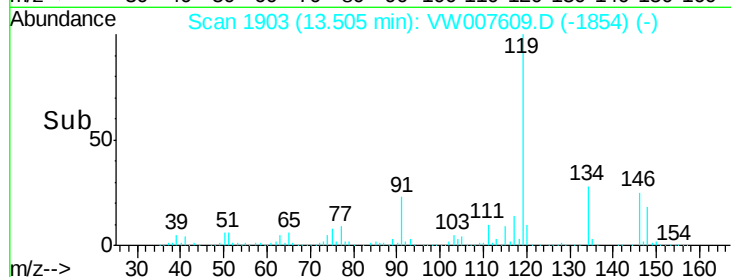
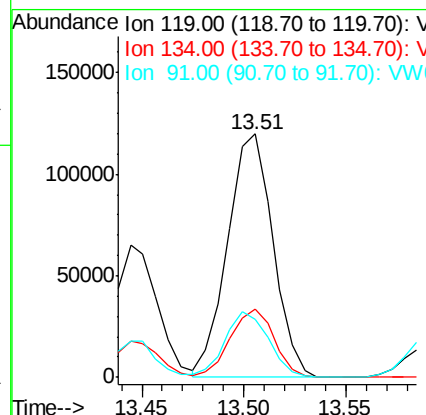
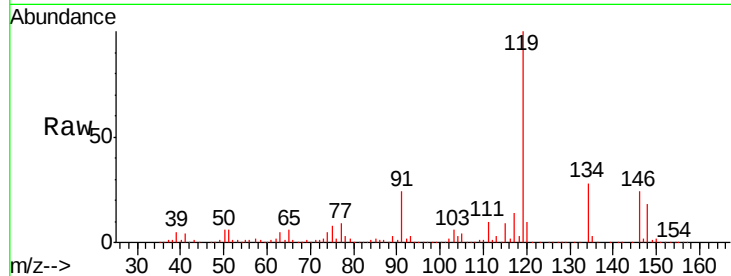
#86
p-Isopropyltoluene
Concen: 218.456 ug/l
RT: 13.51 min Scan# 1903
Delta R.T. 0.00 min
Lab File: VW007609.D
Acq: 16 Dec 2018 04:41

Instrument :
MSVOA_W
ClientSampleId :
P001-SD013-0612-01

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	185090		
134	27.0	12.9	38.7	
91	25.8	11.9	35.9	

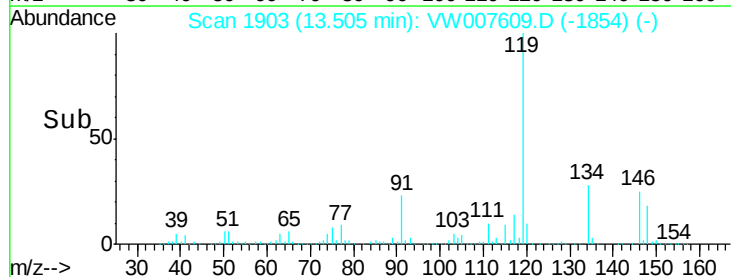
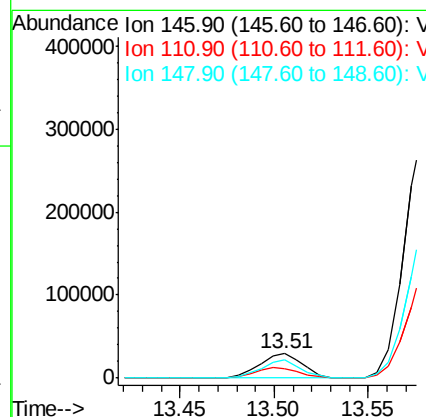
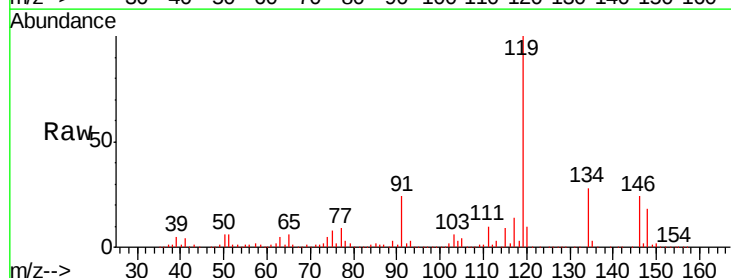
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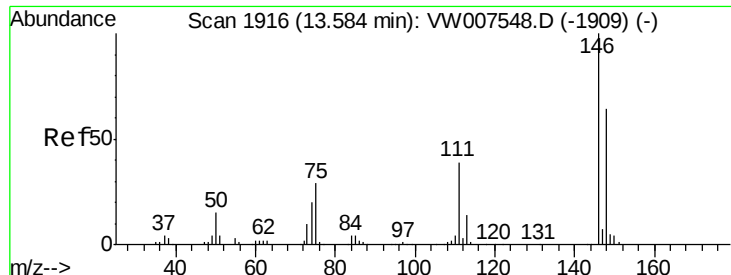
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#87
1,3-Dichlorobenzene
Concen: 112.759 ug/l
RT: 13.51 min Scan# 1903
Delta R.T. 0.00 min
Lab File: VW007609.D
Acq: 16 Dec 2018 04:41

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	46501		
111	43.1	20.1	60.3	
148	68.2	31.4	94.0	





#88

1,4-Dichlorobenzene

Concen: 1241.554 ug/l

RT: 13.58 min Scan# 1916

Delta R.T. 0.00 min

Lab File: VW007609.D

Acq: 16 Dec 2018 04:41

Instrument :

MSVOA_W

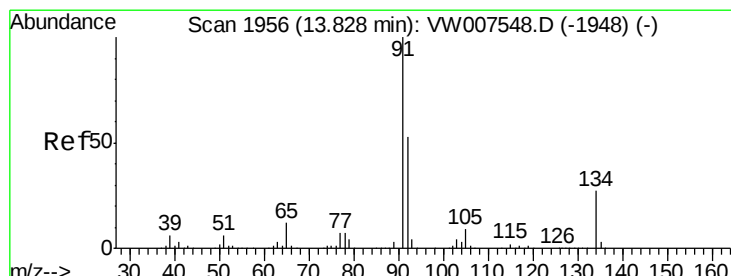
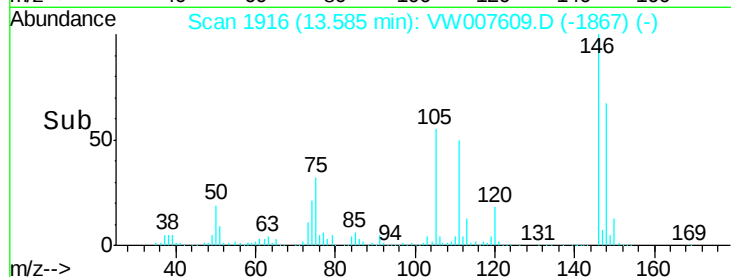
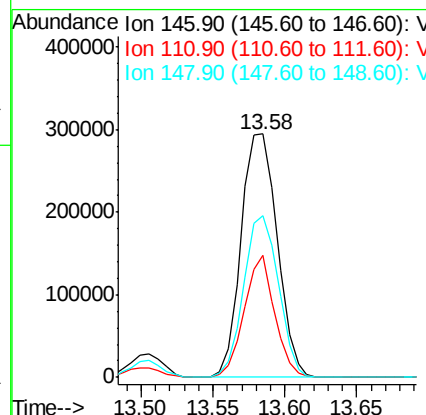
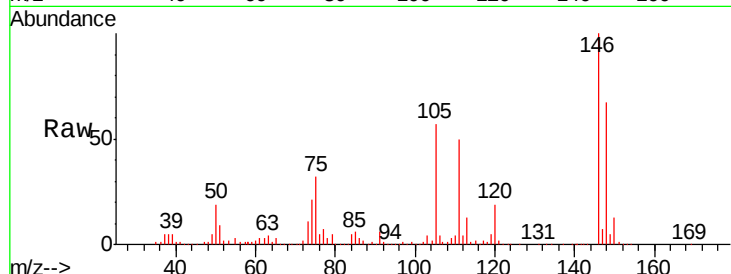
ClientSampleId :

P001-SD013-0612-01

Tgt Ion:	146	Resp:	514736
Ion Ratio	Lower	Upper	
146	100		
111	42.0	20.3	61.0
148	63.9	33.5	100.5

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#89

n-Butylbenzene

Concen: 38.545 ug/l

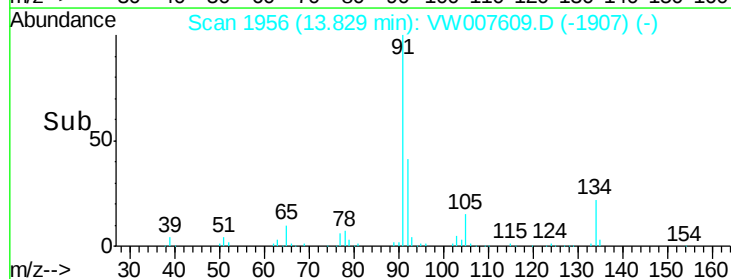
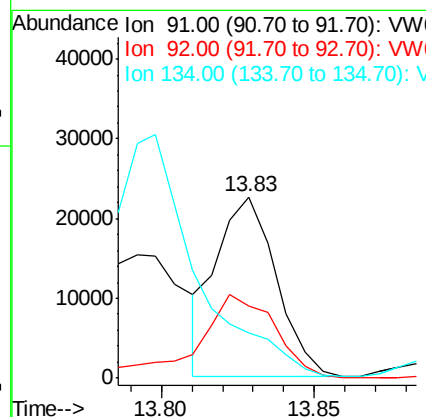
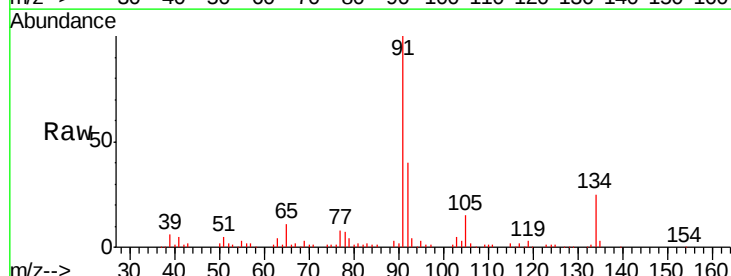
RT: 13.83 min Scan# 1956

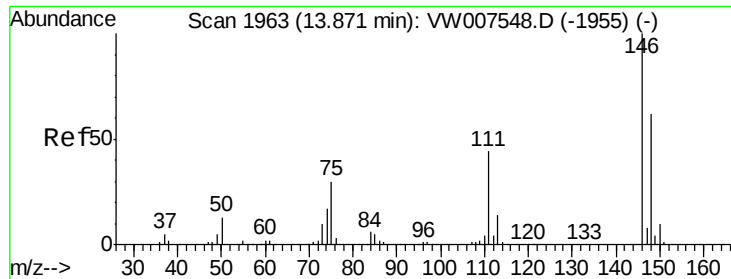
Delta R.T. 0.00 min

Lab File: VW007609.D

Acq: 16 Dec 2018 04:41

Tgt Ion:	91	Resp:	30275
Ion Ratio	Lower	Upper	
91	100		
92	60.0	25.7	77.1
134	0.0	13.4	40.2#





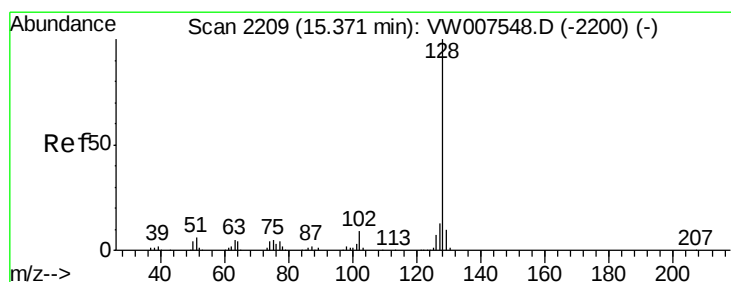
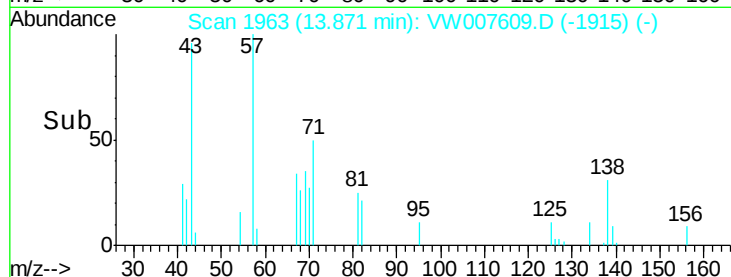
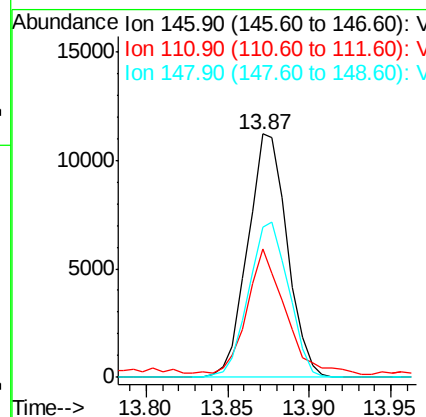
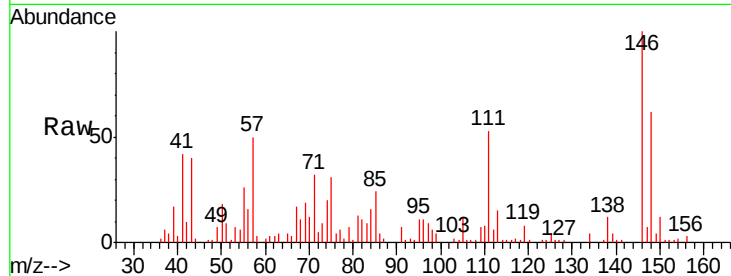
#91
 1,2-Dichlorobenzene
 Concen: 50.806 ug/l
 RT: 13.87 min Scan# 1963
 Delta R.T. -0.01 min
 Lab File: VW007609.D
 Acq: 16 Dec 2018 04:41

Instrument :
 MSVOA_W
 ClientSampleId :
 P001-SD013-0612-01

Tgt Ion	Ratio	Lower	Upper
146	100		
111	50.4	22.4	67.2
148	65.1	32.4	97.2

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#95
 Naphthalene
 Concen: 982.134 ug/l
 RT: 15.37 min Scan# 2209
 Delta R.T. 0.00 min
 Lab File: VW007609.D
 Acq: 16 Dec 2018 04:41

Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.2	15.4
129	10.7	8.3	12.5

