

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX032619\
 Data File : VX008458.D
 Acq On : 26 Mar 2019 15:40
 Operator : JC/SP
 Sample : K2089-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-107

Manual Integrations
 APPROVED

MMDadoda
 3/27/2019 10:41:48 AM

Quant Time: Mar 27 03:41:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X032519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 26 07:57:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	256338	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	6.86	114	417102	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	340607	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	149325	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.11	65	179029	46.07	ug/l	0.05
Spiked Amount	50.000		Recovery	=	92.14%	
35) Dibromofluoromethane	5.51	113	116064	42.68	ug/l	0.01
Spiked Amount	50.000		Recovery	=	85.36%	
50) Toluene-d8	8.74	98	540931	49.74	ug/l	0.02
Spiked Amount	50.000		Recovery	=	99.48%	
62) 4-Bromofluorobenzene	11.14	95	175797	43.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.24%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	2.18	74	4600	2.034	ug/l	97
11) Tert butyl alcohol	3.04	59	15673	18.203	ug/l #	72
16) Acetone	2.44	43	224308	110.436	ug/l	100
22) Diisopropyl ether	3.85	45	133918	10.352	ug/l #	81
25) 2-Butanone	4.67	43	163974	50.357	ug/l	99
31) Cyclohexane	5.59	56	1053802	169.175	ug/l	98
39) Methylcyclohexane	7.46	83	486902	91.612	ug/l	93
40) Benzene	6.15	78	53142971m	3991.536	ug/l	
42) 1,2-Dichloroethane	6.24	62	2010413	412.422	ug/l	89
45) 1,2-Dichloropropane	7.51	63	62288	16.460	ug/l	91
52) Toluene	8.80	92	51033637m	6410.668	ug/l	
61) 1,2-Dibromoethane	9.68	107	715339	216.306	ug/l	97
67) Ethyl Benzene	10.26	91	10448802	747.439	ug/l #	88
68) m/p-Xylenes	10.37	106	21542973m	4236.018	ug/l	
69) o-Xylene	10.71	106	12149331	2461.721	ug/l	52
73) Isopropylbenzene	11.02	105	828644	68.211	ug/l	100
78) n-propylbenzene	11.36	91	1325899	93.170	ug/l	100
80) 1,3,5-Trimethylbenzene	11.51	105	3895604	379.302	ug/l	98
84) 1,2,4-Trimethylbenzene	11.82	105	12747644	1227.144	ug/l	82
85) sec-Butylbenzene	11.94	105	75291m	6.380	ug/l	
86) p-Isopropyltoluene	12.07	119	38368m	3.685	ug/l	
95) Naphthalene	13.83	128	4515925	370.863	ug/l	99

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

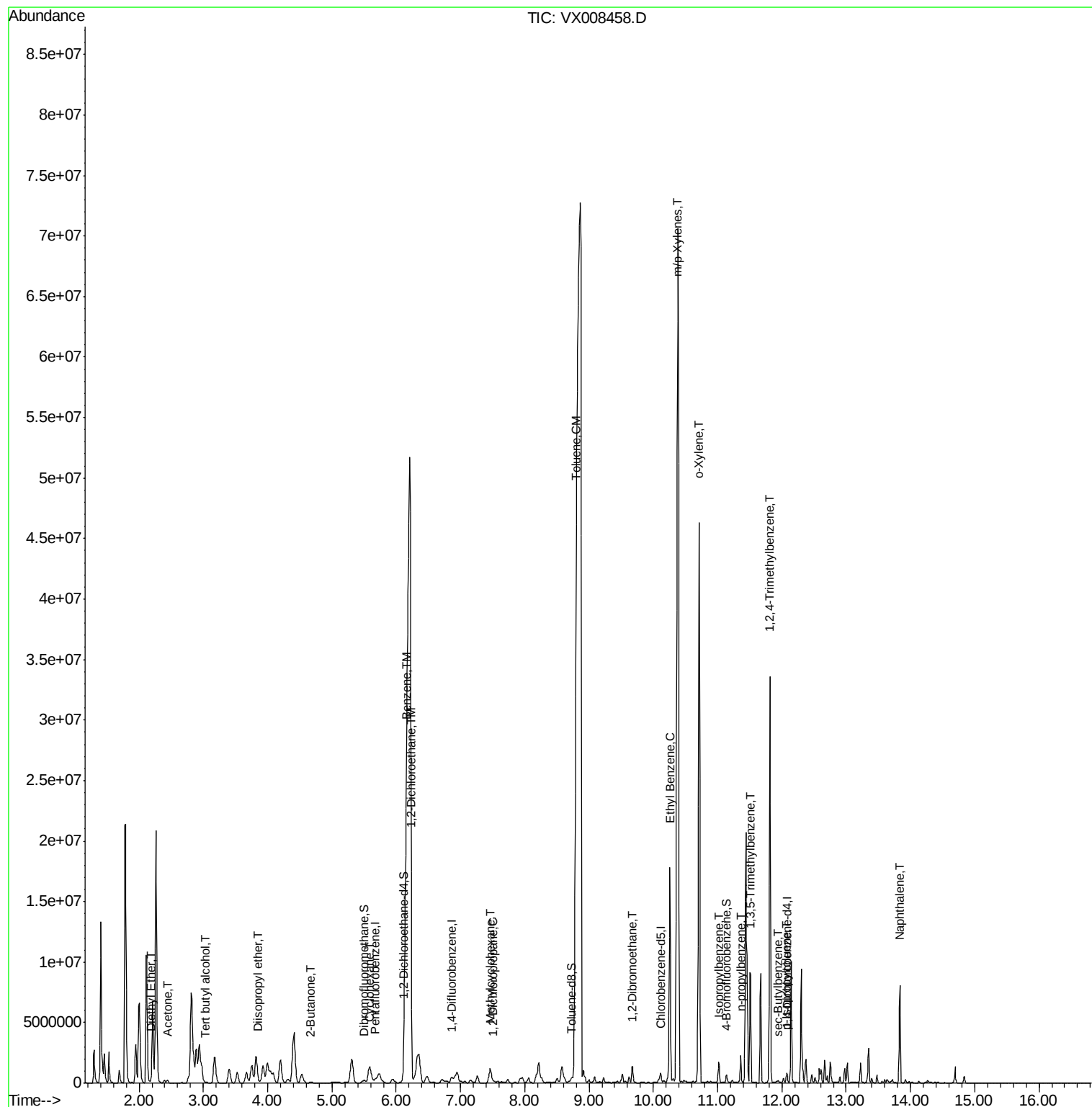
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX032619\
Data File : VX008458.D
Acq On : 26 Mar 2019 15:40
Operator : JC/SP
Sample : K2089-02
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 14 Sample Multiplier: 1

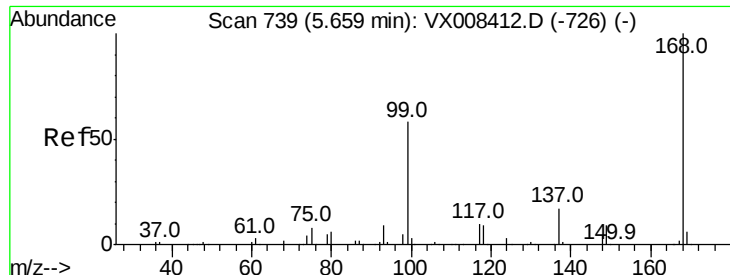
Instrument :
MSVOA_X
ClientSampleId :
MW-107

Manual Integrations
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3/27/2019 10:41:48 AM

Quant Time: Mar 27 03:41:50 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X032519W.M
Quant Title : SW846 8260
QLast Update : Tue Mar 26 07:57:20 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 741

Delta R.T. 0.01 min

Lab File: VX008458.D

Acq: 26 Mar 2019 15:40

Instrument :

MSVOA_X

ClientSampleId :

MW-107

Tot Ion:168 Resp: 256338

Ion Ratio Lower Upper

168 100

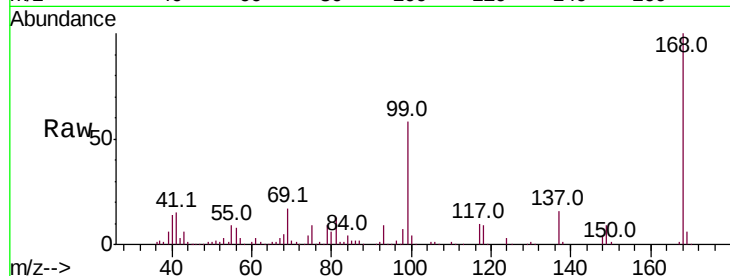
99 57.5 46.0 69.0

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

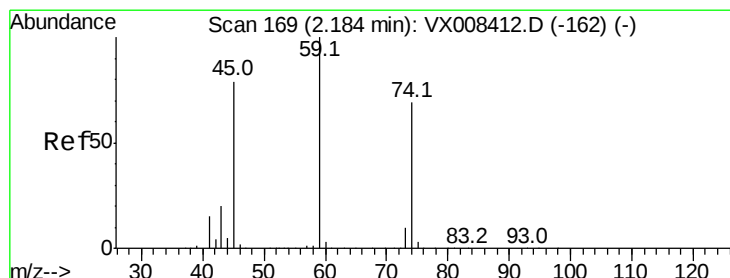
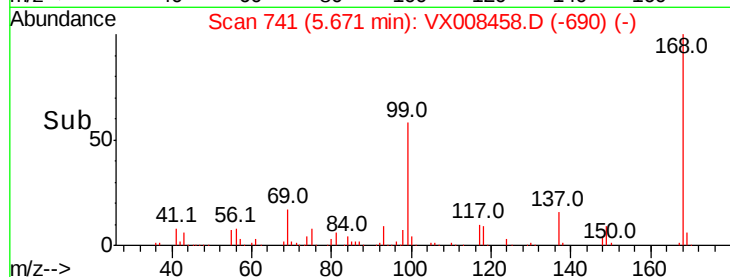
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#8

Diethyl Ether

Concen: 2.034 ug/l

RT: 2.18 min Scan# 169

Delta R.T. 0.00 min

Lab File: VX008458.D

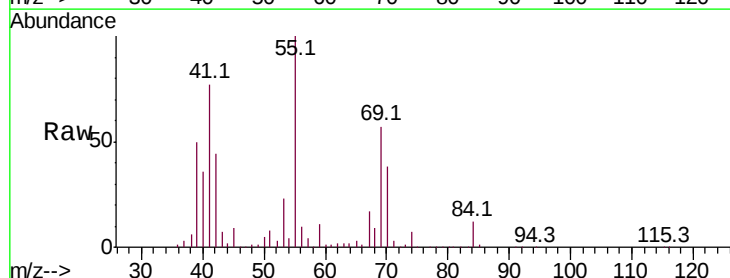
Acq: 26 Mar 2019 15:40

Tgt Ion: 74 Resp: 4600

Ion Ratio Lower Upper

74 100

45 109.3 56.4 169.2



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

4000

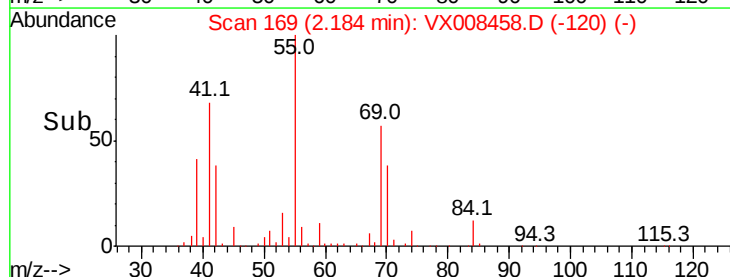
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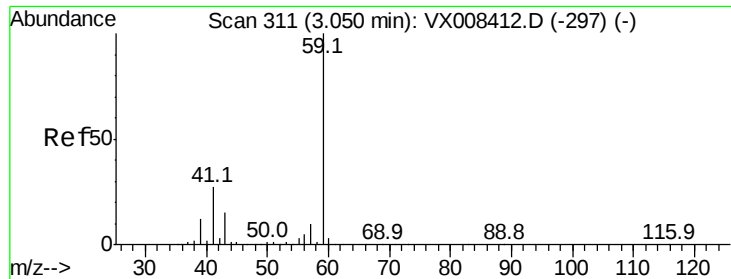
2000

1000

0

Time--> 2.10 2.15 2.20 2.25





#11

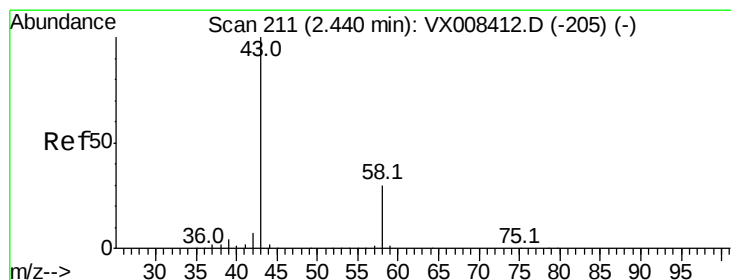
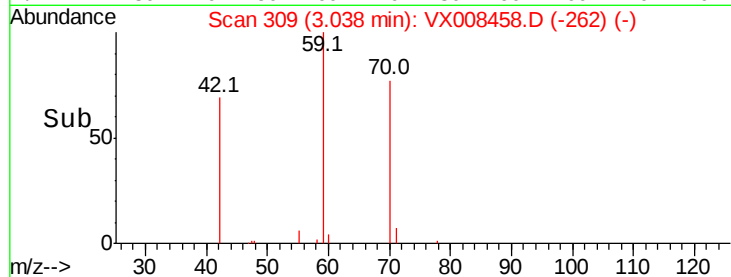
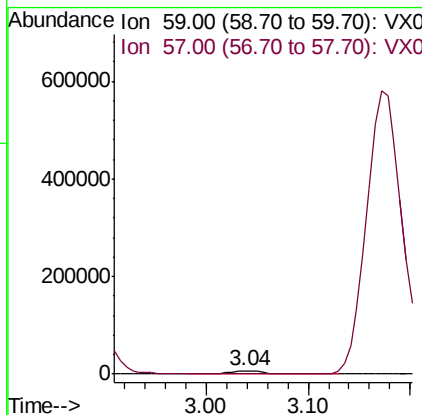
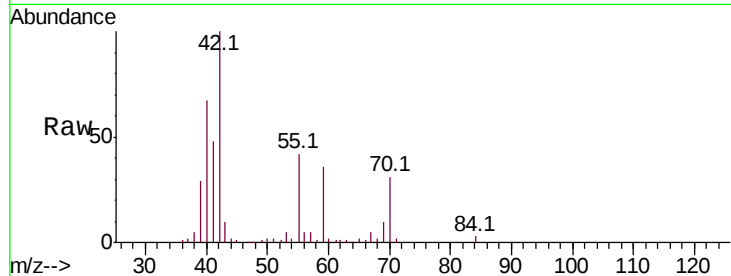
Tert butyl alcohol
 Concen: 18.203 ug/l
 RT: 3.04 min Scan# 309
 Delta R.T. -0.01 min
 Lab File: VX008458.D
 Acq: 26 Mar 2019 15:40

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-107

Tot Ion: 59 Resp: 15673
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.4#

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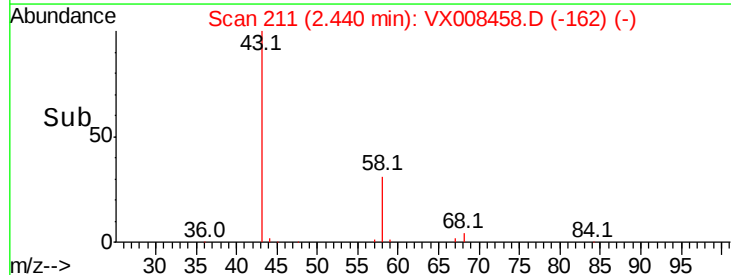
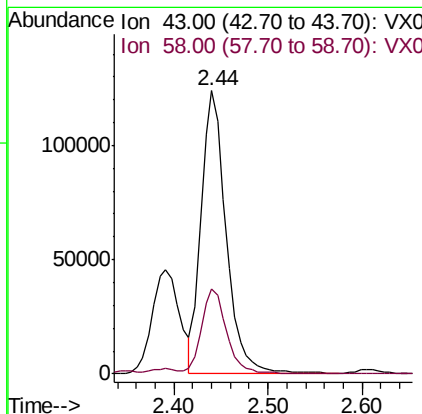
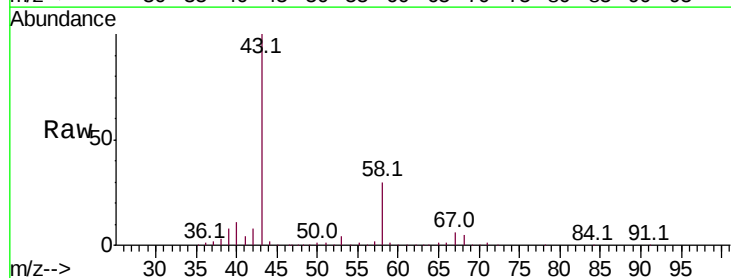
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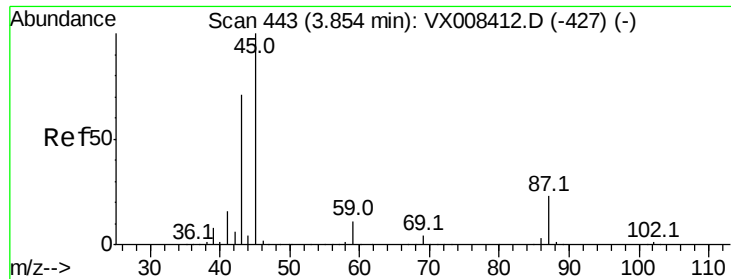


#16

Acetone
 Concen: 110.436 ug/l
 RT: 2.44 min Scan# 211
 Delta R.T. 0.00 min
 Lab File: VX008458.D
 Acq: 26 Mar 2019 15:40

Tgt Ion: 43 Resp: 224308
 Ion Ratio Lower Upper
 43 100
 58 30.1 24.2 36.2





#22

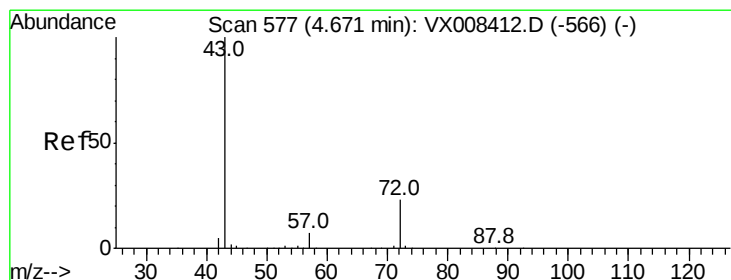
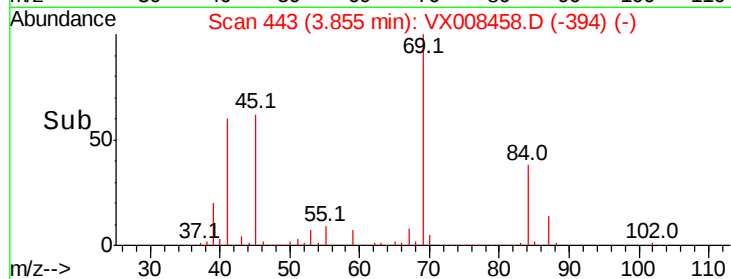
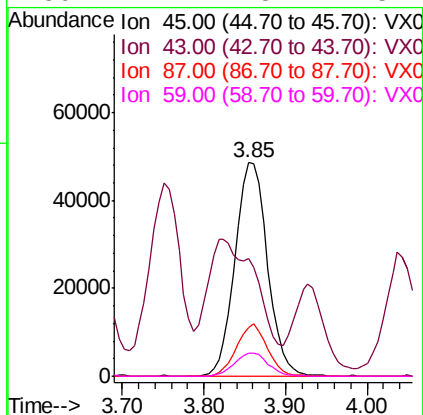
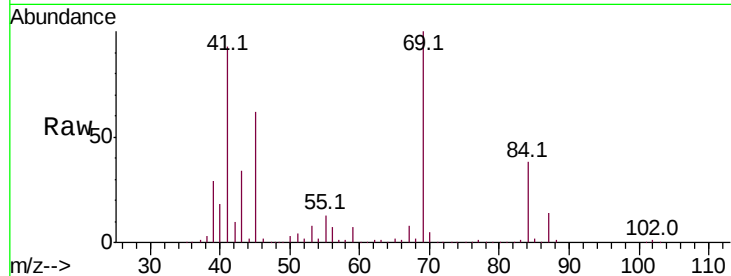
Diisopropyl ether
Concen: 10.352 ug/l
RT: 3.85 min Scan# 443
Delta R.T. 0.00 min
Lab File: VX008458.D
Acq: 26 Mar 2019 15:40

Instrument :
MSVOA_X
ClientSampled :
MW-107

Tot Ion	Ratio	Lower	Upper
45	100		
43	48.4	57.1	85.7#
87	23.1	18.8	28.2
59	11.1	8.7	13.1

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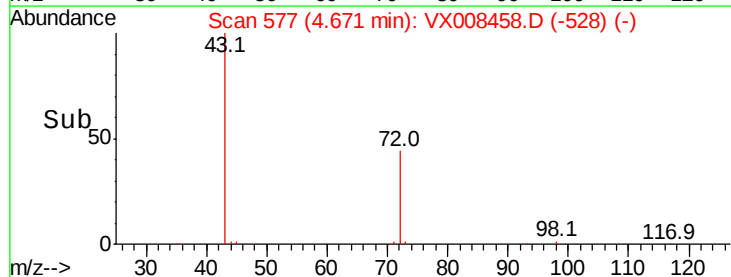
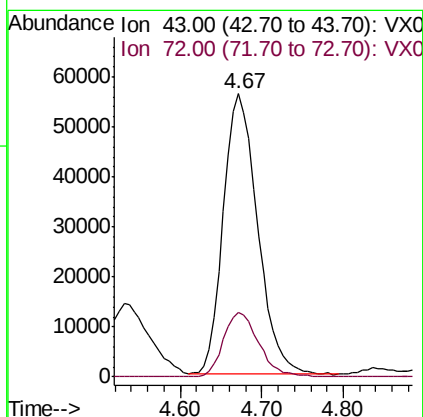
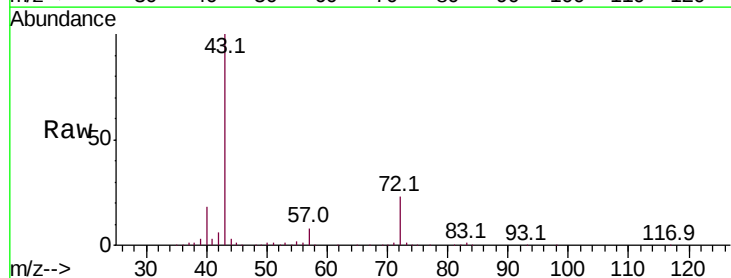
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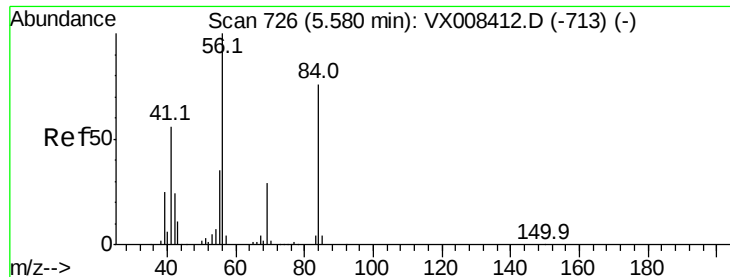


#25

2-Butanone
Concen: 50.357 ug/l
RT: 4.67 min Scan# 577
Delta R.T. 0.00 min
Lab File: VX008458.D
Acq: 26 Mar 2019 15:40

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.8	18.6	28.0





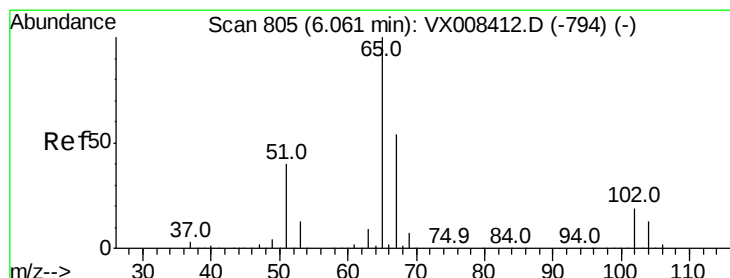
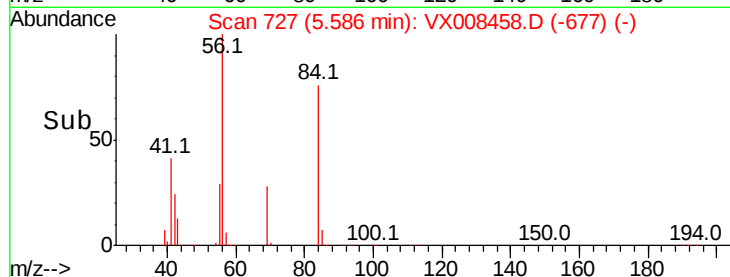
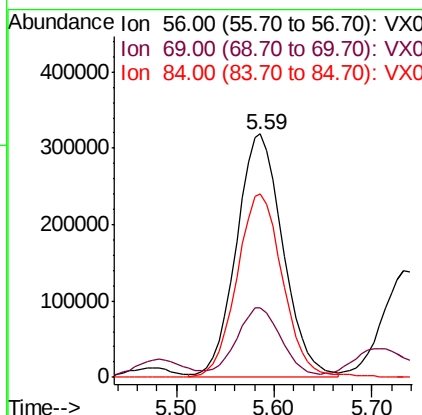
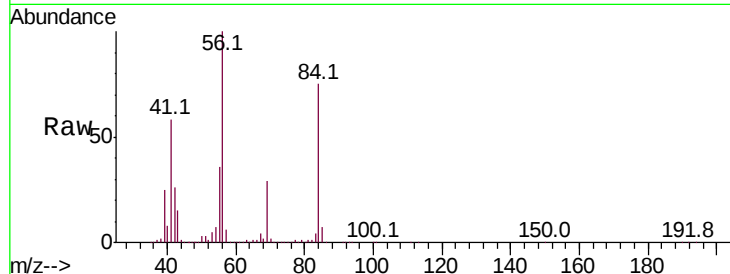
#31
Cyclohexane
Concen: 169.175 ug/l
RT: 5.59 min Scan# 727
Delta R.T. 0.01 min
Lab File: VX008458.D
Acq: 26 Mar 2019 15:40

Instrument :
MSVOA_X
ClientSampleId :
MW-107

Tot Ion: 56 Resp: 1053802
Ion Ratio Lower Upper
56 100
69 26.1 23.2 34.8
84 76.2 60.7 91.1

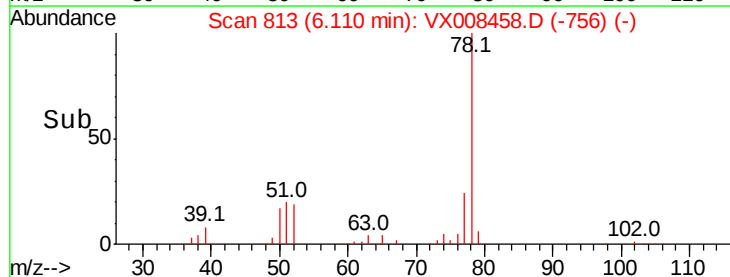
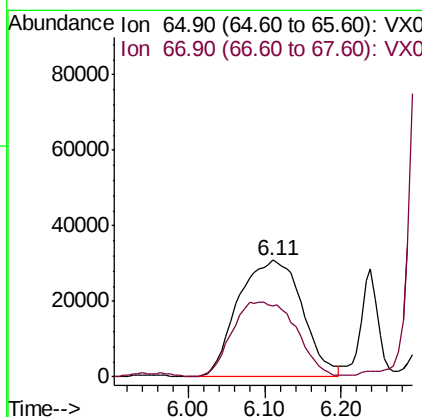
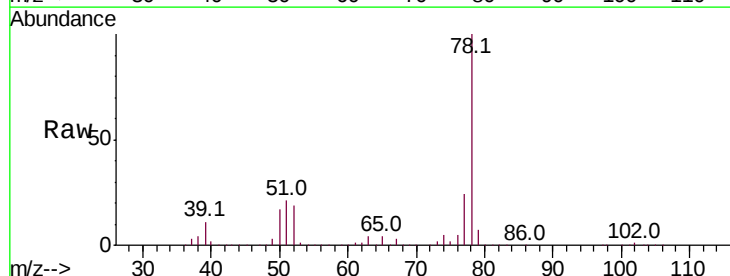
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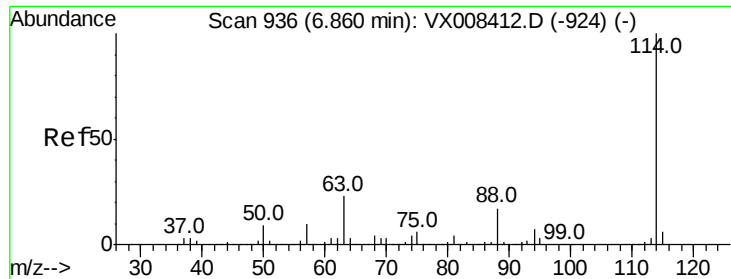
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#33
1,2-Dichloroethane-d4
Concen: 46.068 ug/l
RT: 6.11 min Scan# 813
Delta R.T. 0.05 min
Lab File: VX008458.D
Acq: 26 Mar 2019 15:40

Tgt Ion: 65 Resp: 179029
Ion Ratio Lower Upper
65 100
67 63.1 0.0 109.4





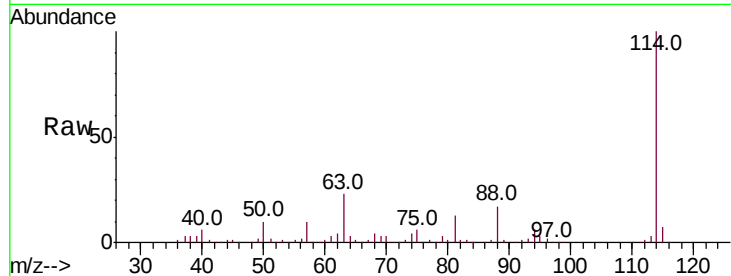
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX008458.D
 Acq: 26 Mar 2019 15:40

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-107

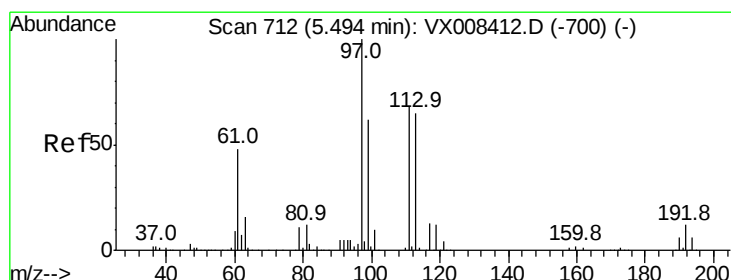
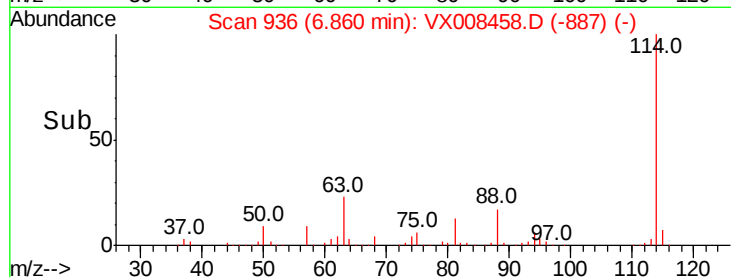
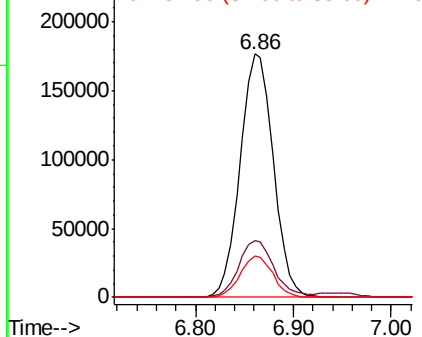
Tot Ion	Ratio	Resp	Lower	Upper
114	100			
63	22.9	0.0	46.4	
88	17.0	0.0	33.2	

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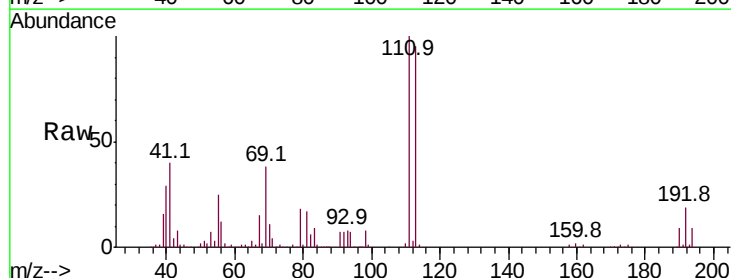


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

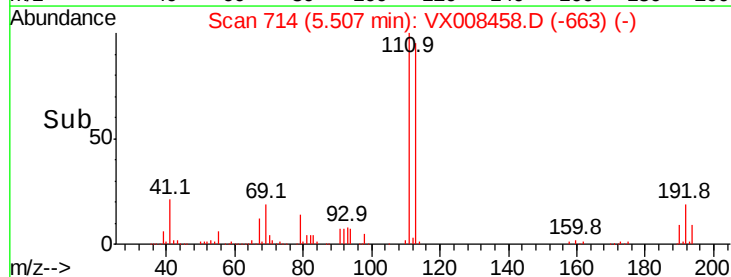
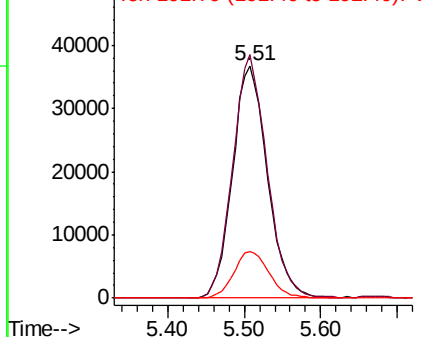


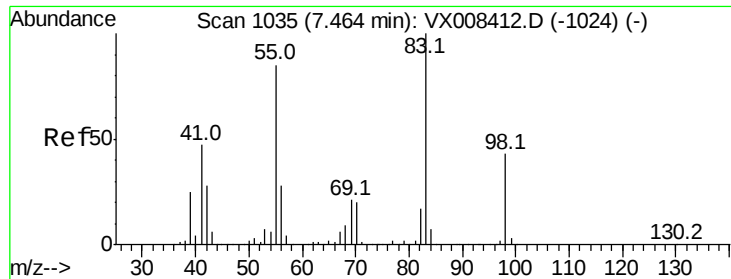
#35
 Dibromofluoromethane
 Concen: 42.675 ug/l
 RT: 5.51 min Scan# 714
 Delta R.T. 0.01 min
 Lab File: VX008458.D
 Acq: 26 Mar 2019 15:40

Tgt Ion	Ratio	Resp	Lower	Upper
113	100			
111	103.4	83.0	124.4	
192	20.5	15.6	23.4	



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V





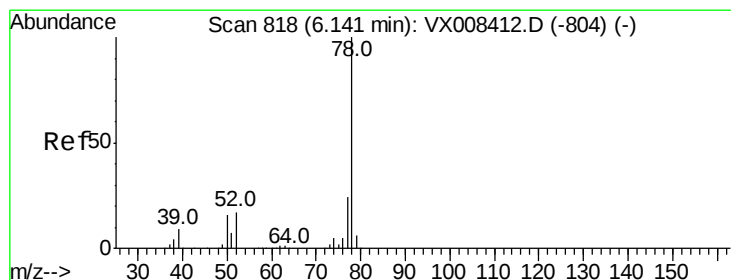
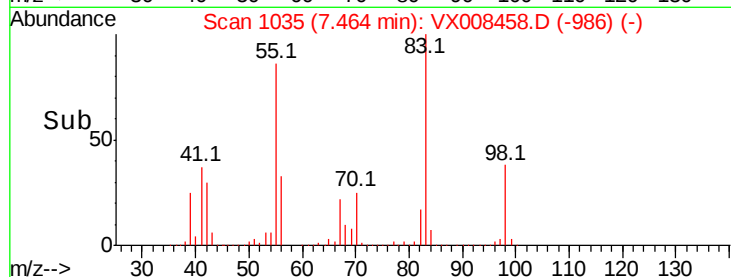
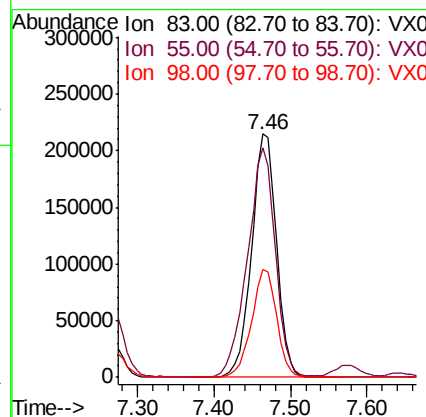
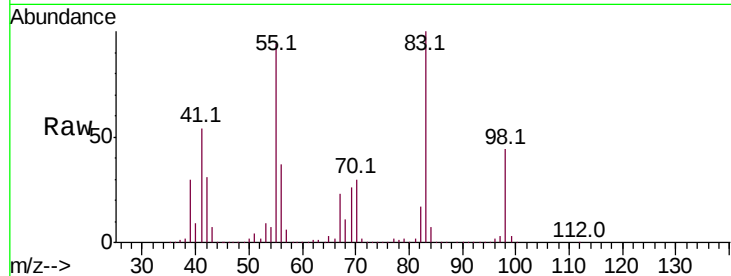
#39
Methvlcvclohexane
Concen: 91.612 ug/l
RT: 7.46 min Scan# 1035
Delta R.T. 0.00 min
Lab File: VX008458.D
Acq: 26 Mar 2019 15:40

Instrument :
MSVOA_X
ClientSampled :
MW-107

Tot Ion	Ratio	Lower	Upper
83	100		
55	94.0	68.2	102.4
98	44.2	34.2	51.4

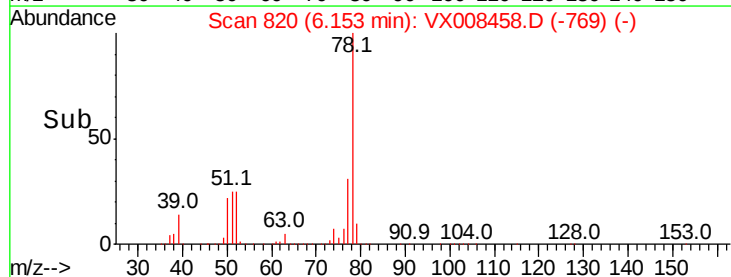
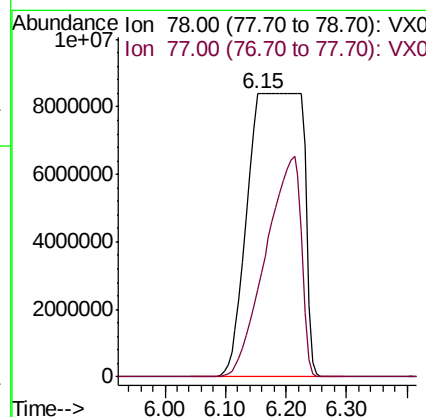
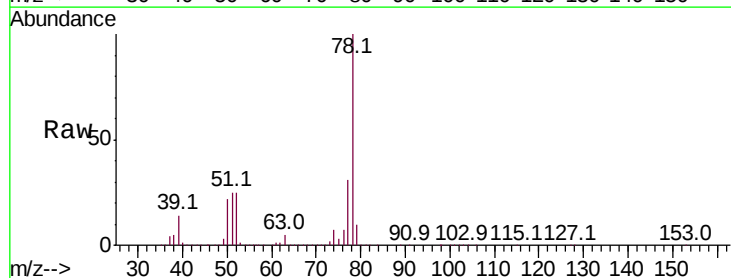
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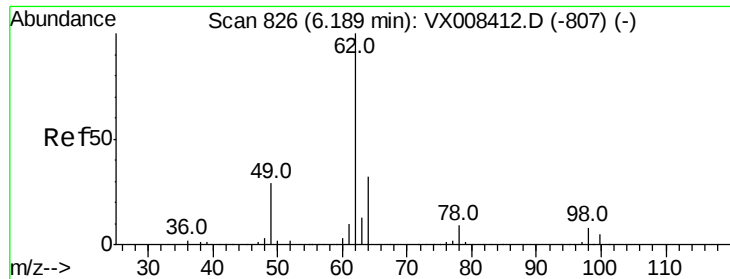
MMDadoda
3/27/2019 10:41:48 AM



#40
Benzene
Concen: 3991.536 ug/l m
RT: 6.15 min Scan# 820
Delta R.T. 0.01 min
Lab File: VX008458.D
Acq: 26 Mar 2019 15:40

Tgt Ion	Ratio	Lower	Upper
78	100		
77	31.1	19.3	28.9#





#42

1,2-Dichloroethane

Concen: 412.422 ug/l

RT: 6.24 min Scan# 834

Delta R.T. 0.05 min

Lab File: VX008458.D

Acq: 26 Mar 2019 15:40

Instrument :

MSVOA_X

ClientSampleId :

MW-107

Tot Ion: 62 Resp: 2010413

Ion Ratio Lower Upper

62 100

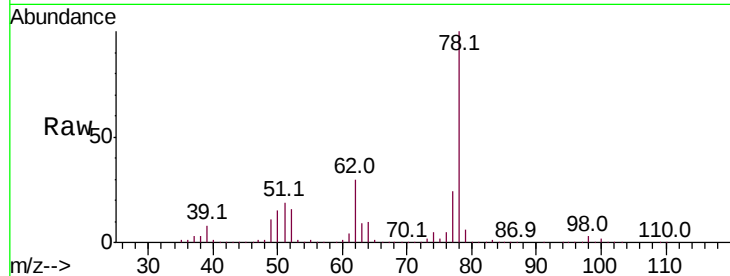
98 4.7 0.0 17.6

Manual Integrations

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Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

6.24

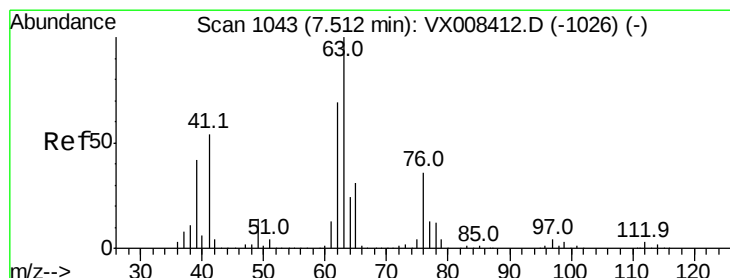
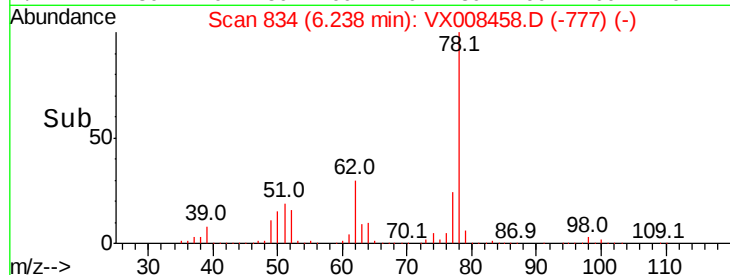
600000

400000

200000

0

Time--> 5.90 6.00 6.10 6.20 6.30



#45

1,2-Dichloropropane

Concen: 16.460 ug/l

RT: 7.51 min Scan# 1043

Delta R.T. 0.00 min

Lab File: VX008458.D

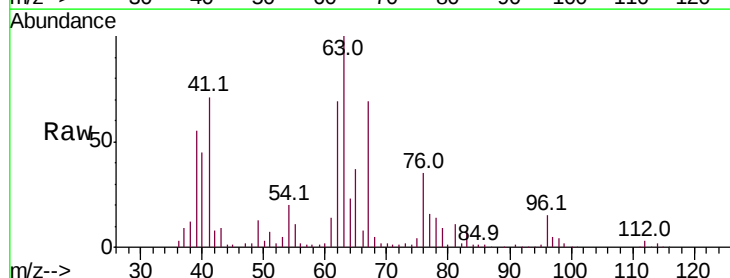
Acq: 26 Mar 2019 15:40

Tgt Ion: 63 Resp: 62288

Ion Ratio Lower Upper

63 100

65 36.6 25.1 37.7



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 64.90 (64.60 to 65.60): VX0

7.51

30000

25000

20000

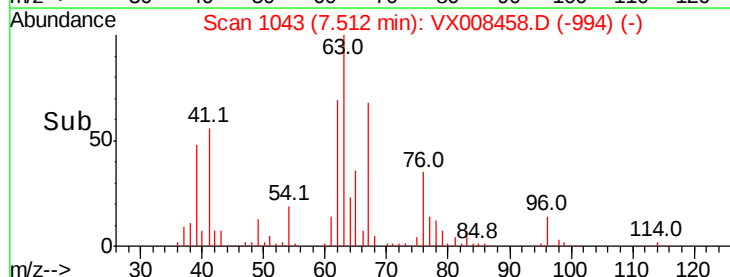
15000

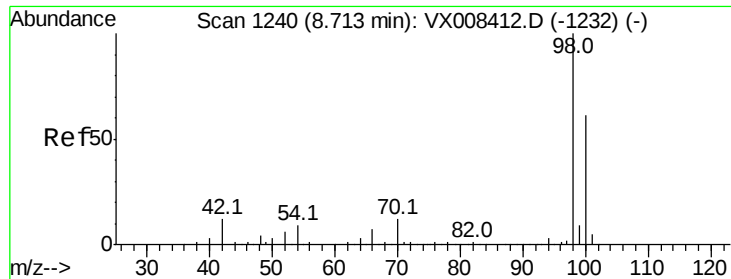
10000

5000

0

Time--> 7.40 7.50 7.60





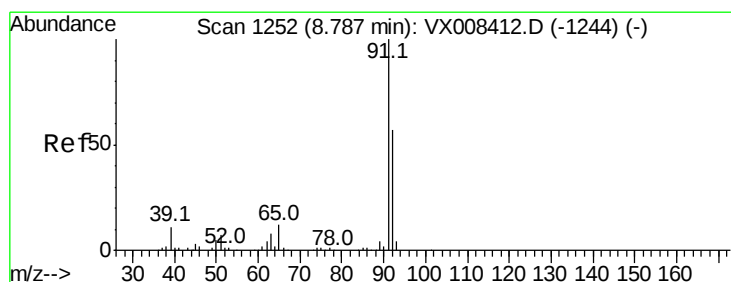
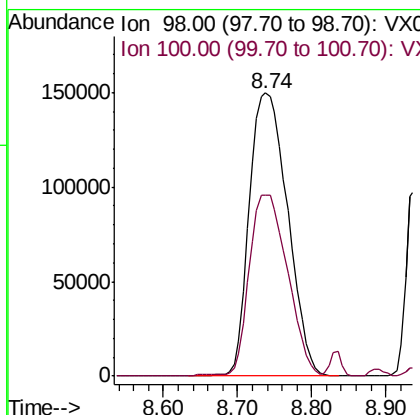
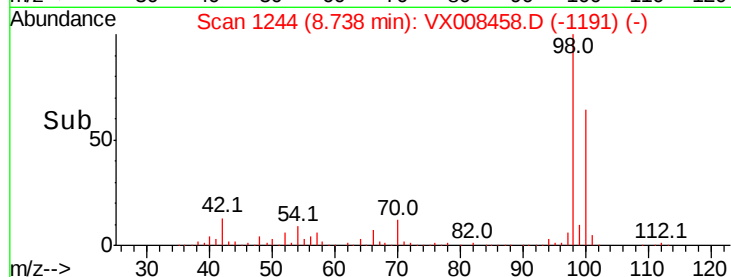
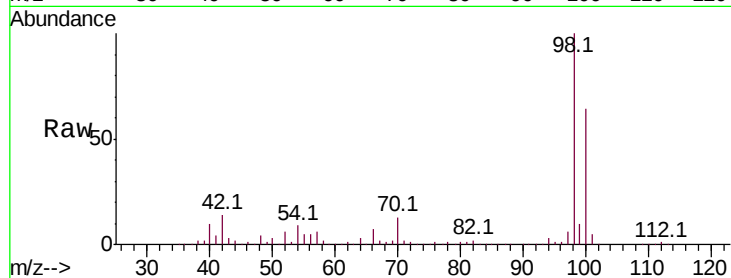
#50
Toluene-d8
Concen: 49.741 ug/l
RT: 8.74 min Scan# 1244
Delta R.T. 0.02 min
Lab File: VX008458.D
Acq: 26 Mar 2019 15:40

Instrument :
MSVOA_X
ClientSampleId :
MW-107

Tot Ion: 98 Resp: 540931
Ion Ratio Lower Upper
98 100
100 63.0 51.1 76.7

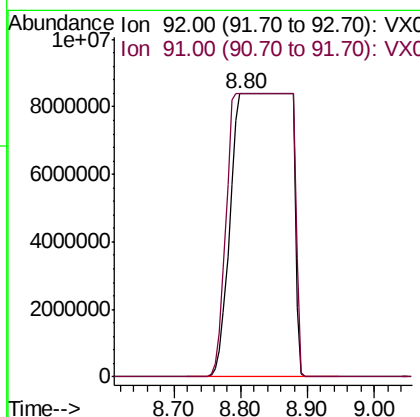
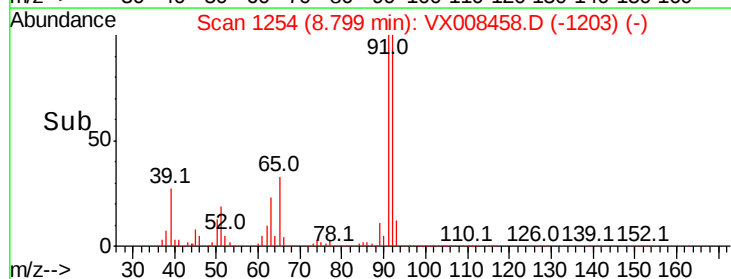
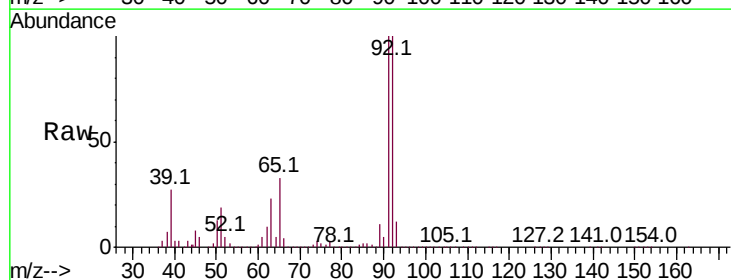
Manual Integrations
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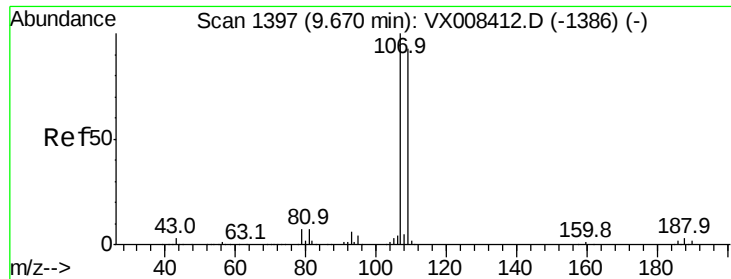
MMDadoda
3/27/2019 10:41:48 AM



#52
Toluene
Concen: 6410.668 ug/l m
RT: 8.80 min Scan# 1254
Delta R.T. 0.01 min
Lab File: VX008458.D
Acq: 26 Mar 2019 15:40

Tgt Ion: 92 Resp: 51033637
Ion Ratio Lower Upper
92 100
91 0.0 140.2 210.4#





#61

1,2-Dibromoethane

Concen: 216.306 ug/l

RT: 9.68 min Scan# 1398

Delta R.T. 0.01 min

Lab File: VX008458.D

Acq: 26 Mar 2019 15:40

Instrument :

MSVOA_X

ClientSampled :

MW-107

Tot Ion:107 Resp: 715339

Ion Ratio Lower Upper

107 100

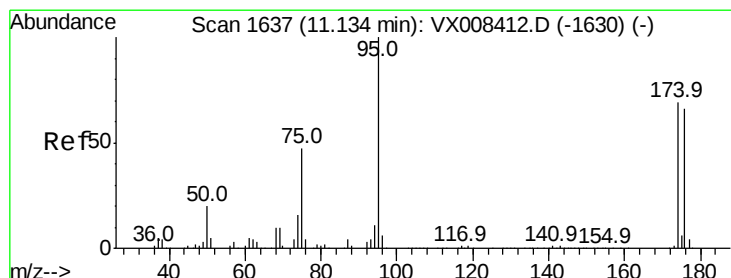
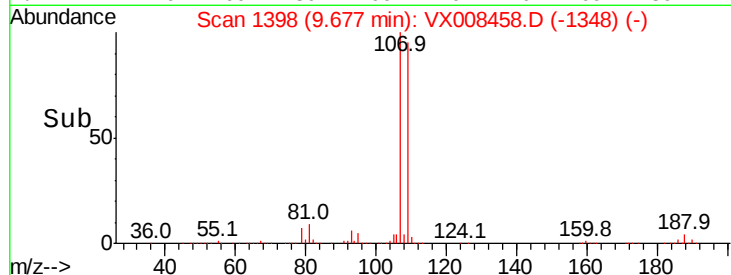
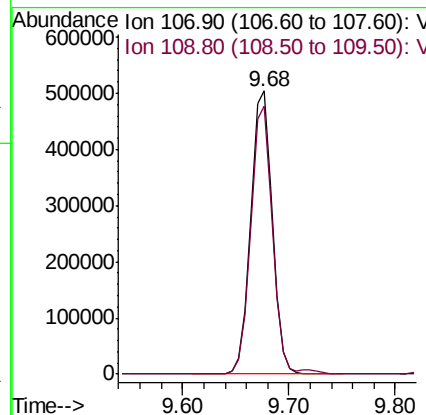
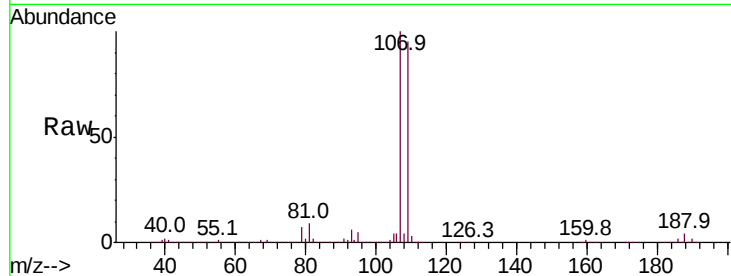
109 95.7 74.6 111.8

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#62

4-Bromofluorobenzene

Concen: 43.624 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.01 min

Lab File: VX008458.D

Acq: 26 Mar 2019 15:40

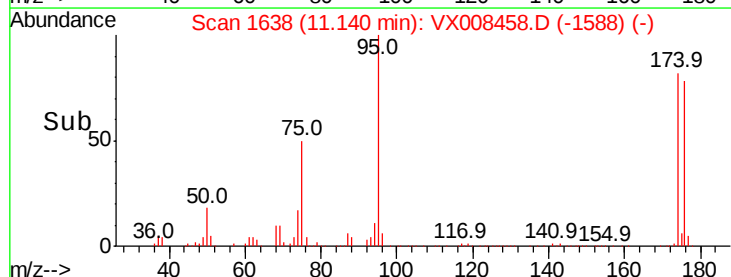
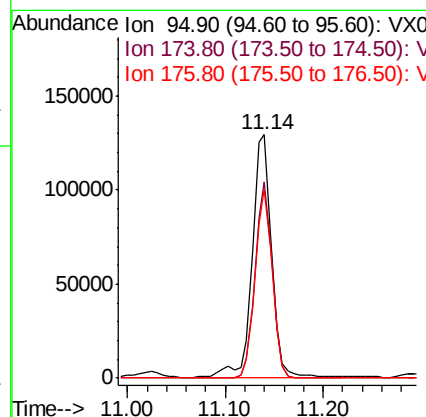
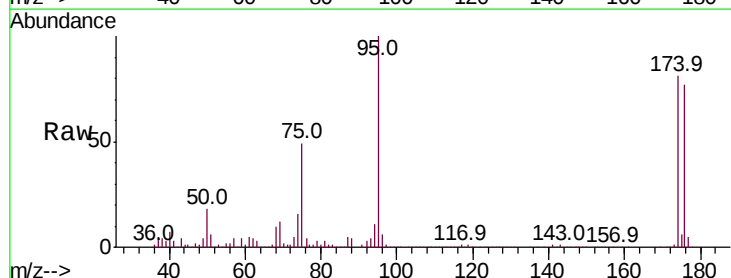
Tgt Ion: 95 Resp: 175797

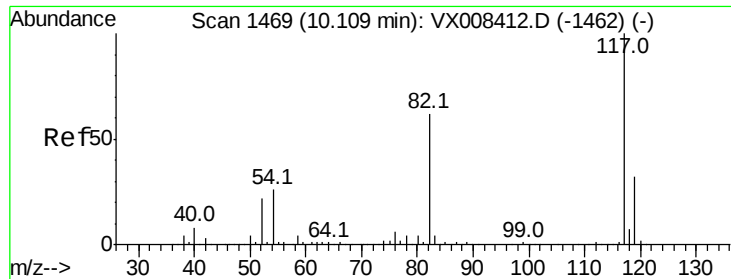
Ion Ratio Lower Upper

95 100

174 72.3 0.0 147.2

176 69.5 0.0 142.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VX008458.D

Acq: 26 Mar 2019 15:40

Instrument :

MSVOA_X

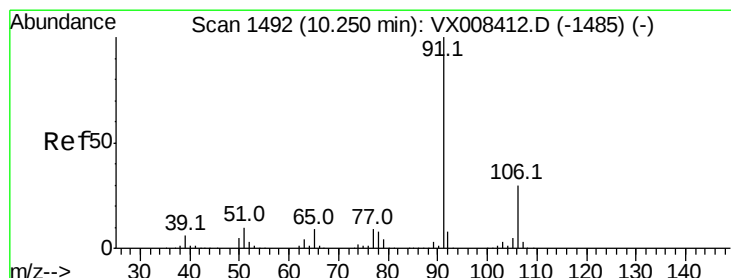
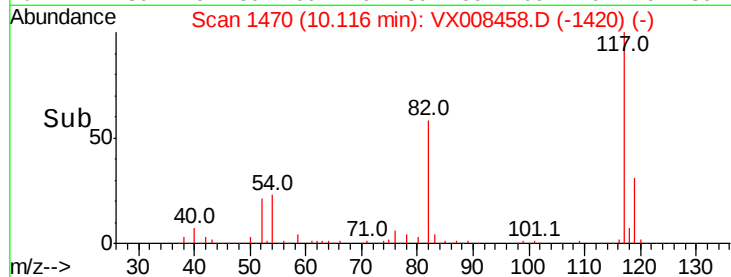
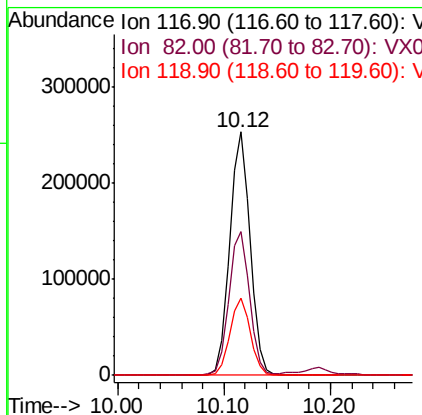
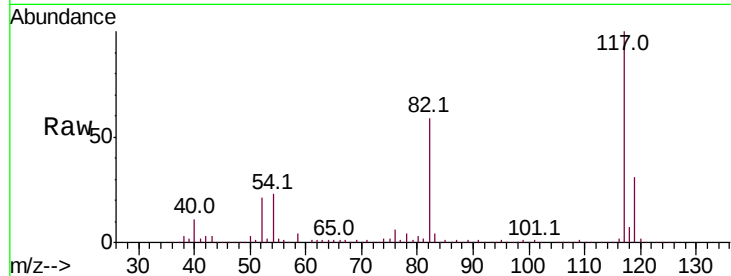
ClientSampleId :

MW-107

Tot Ion	Ratio	Lower	Upper
117	100		
82	58.6	49.4	74.2
119	31.5	25.4	38.0

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#67

Ethyl Benzene

Concen: 747.439 ug/l

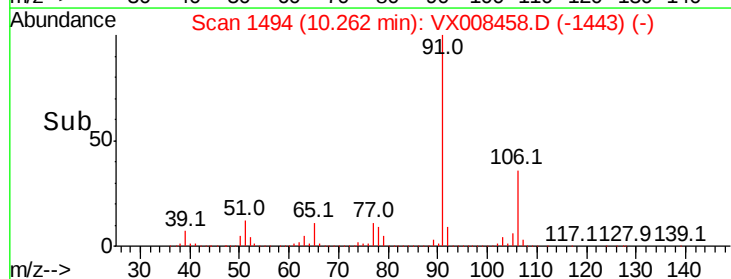
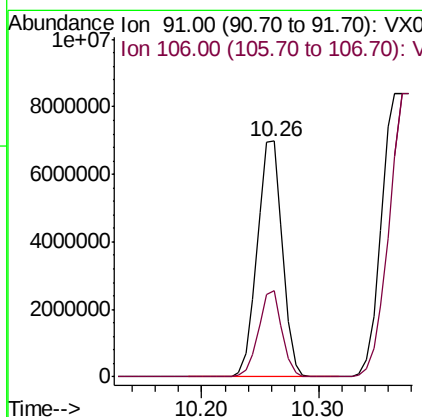
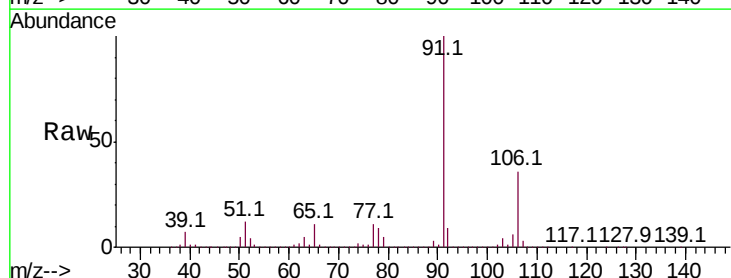
RT: 10.26 min Scan# 1494

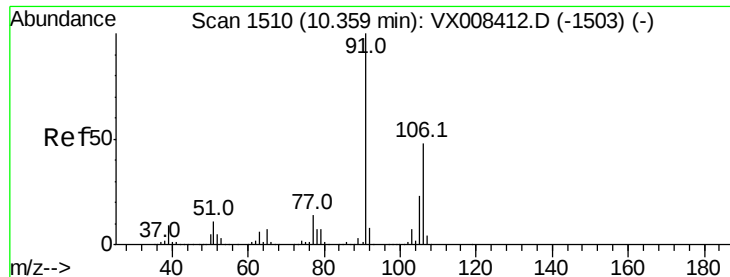
Delta R.T. 0.01 min

Lab File: VX008458.D

Acq: 26 Mar 2019 15:40

Tgt Ion	Ratio	Lower	Upper
91	100		
106	36.5	24.0	36.0





#68

m/p-Xylenes

Concen: 4236.018 ug/l m

RT: 10.37 min Scan# 1512

Delta R.T. 0.01 min

Lab File: VX008458.D

Acq: 26 Mar 2019 15:40

Instrument :

MSVOA_X

ClientSampleId :

MW-107

Tot Ion:106 Resp:21542973

Ion Ratio Lower Upper

106 100

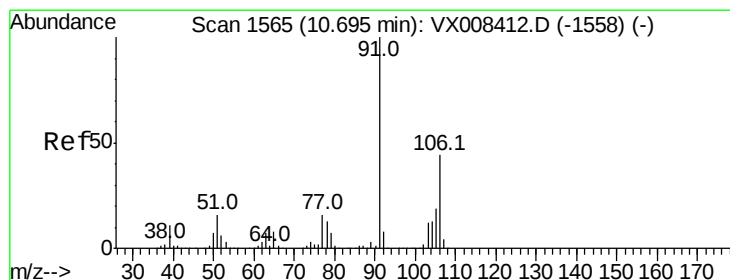
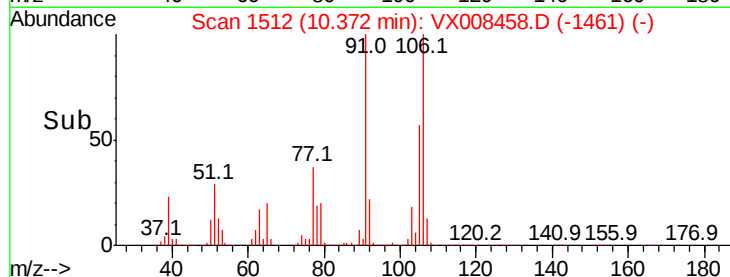
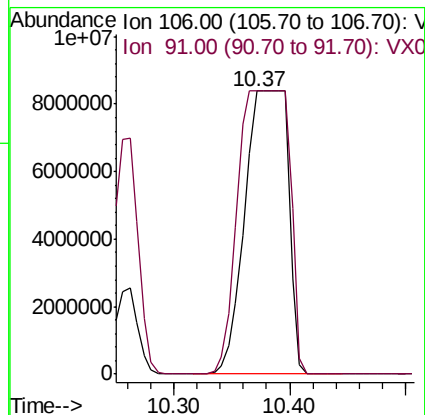
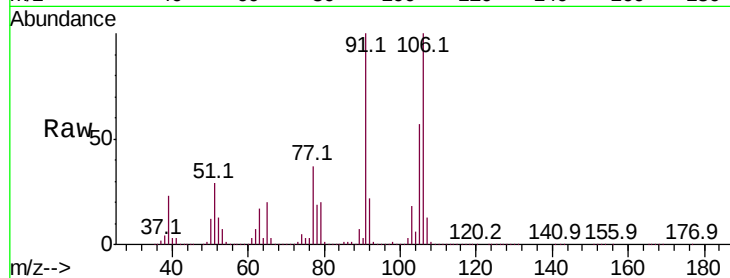
91 48.5 168.6 253.0#

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#69

o-Xylene

Concen: 2461.721 ug/l

RT: 10.71 min Scan# 1568

Delta R.T. 0.02 min

Lab File: VX008458.D

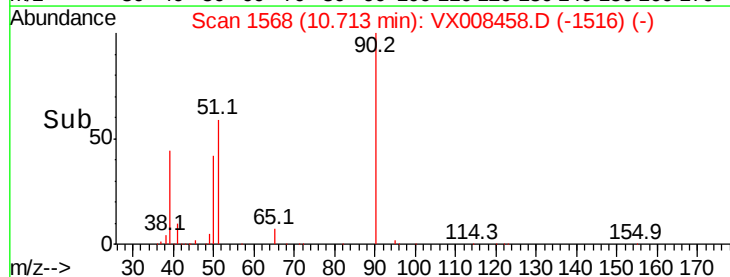
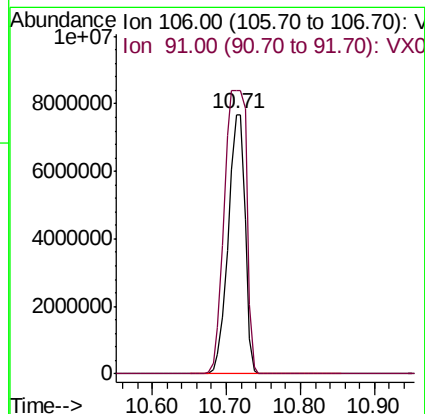
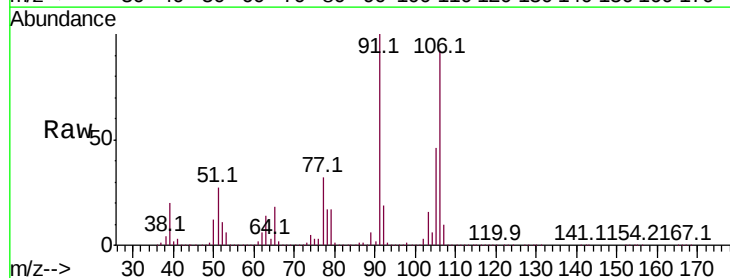
Acq: 26 Mar 2019 15:40

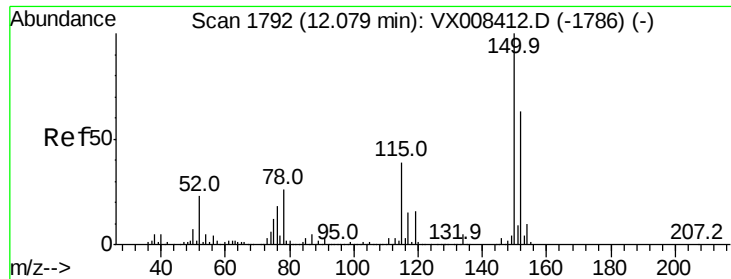
Tgt Ion:106 Resp:12149331

Ion Ratio Lower Upper

106 100

91 144.5 111.4 334.2





#72

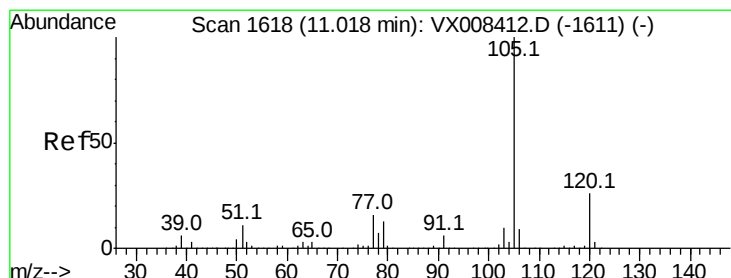
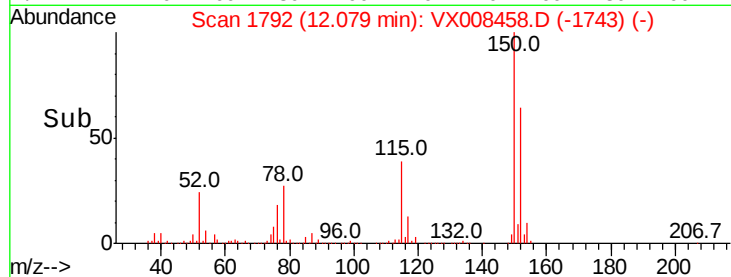
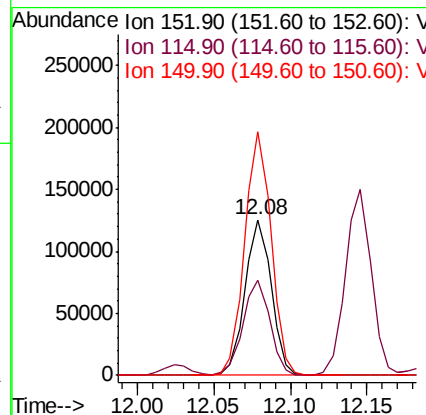
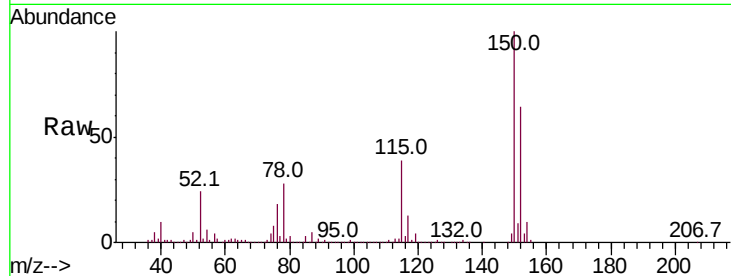
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX008458.D
Acq: 26 Mar 2019 15:40

Instrument :
MSVOA_X
ClientSampled :
MW-107

Tot Ion	Ratio	Lower	Upper
152	100		
115	62.0	43.5	130.5
150	157.7	0.0	348.8

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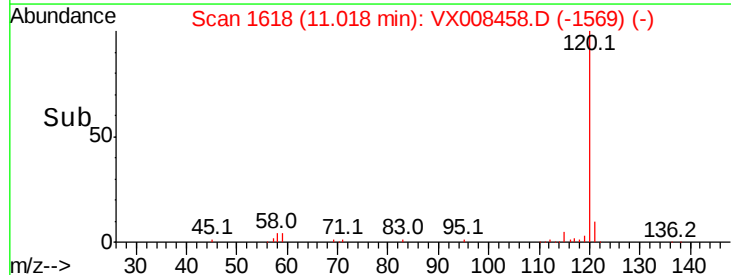
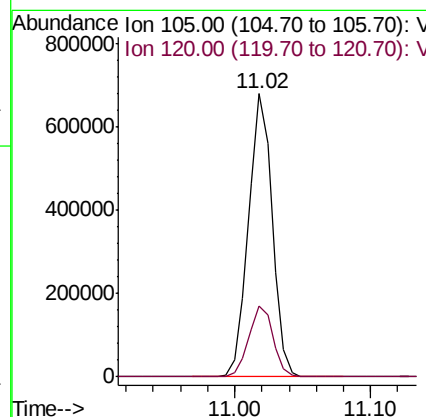
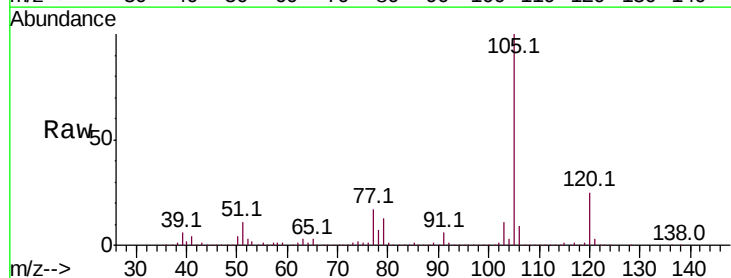
MMDadoda
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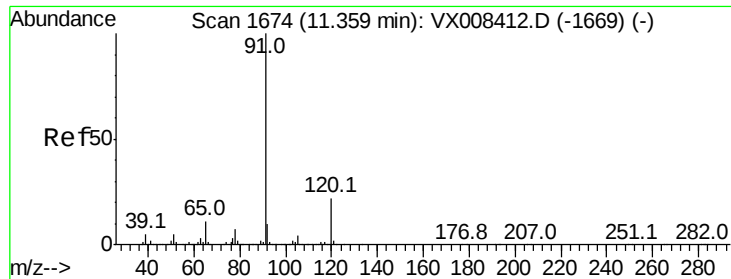


#73

Isopropylbenzene
Concen: 68.211 ug/l
RT: 11.02 min Scan# 1618
Delta R.T. 0.00 min
Lab File: VX008458.D
Acq: 26 Mar 2019 15:40

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.7	12.9	38.7





#78

n-propylbenzene

Concen: 93.170 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. 0.00 min

Lab File: VX008458.D

Acq: 26 Mar 2019 15:40

Instrument :

MSVOA_X

ClientSampled :

MW-107

Tot Ion: 91 Resp: 1325899

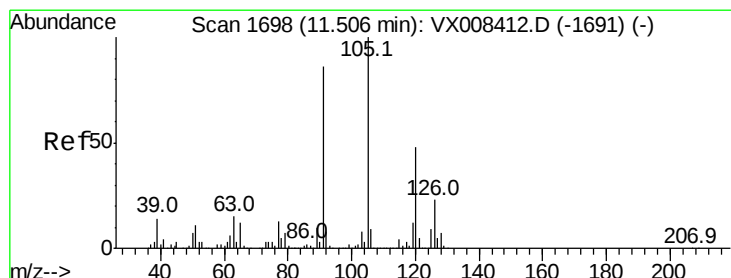
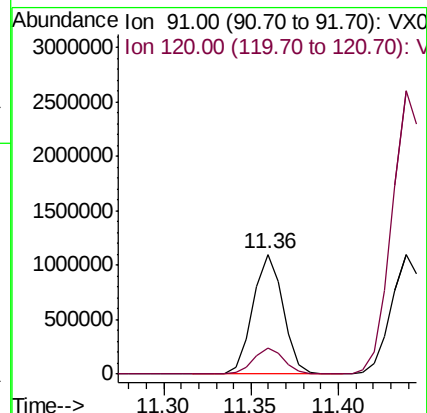
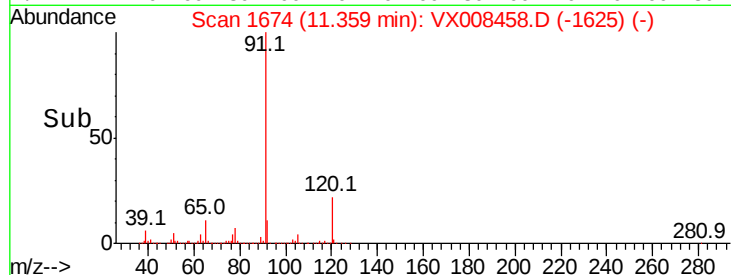
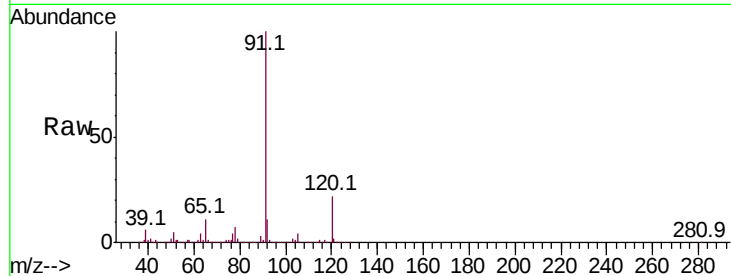
Ion Ratio Lower Upper

91 100

120 21.8 10.8 32.4

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#80

1,3,5-Trimethylbenzene

Concen: 379.302 ug/l

RT: 11.51 min Scan# 1699

Delta R.T. 0.01 min

Lab File: VX008458.D

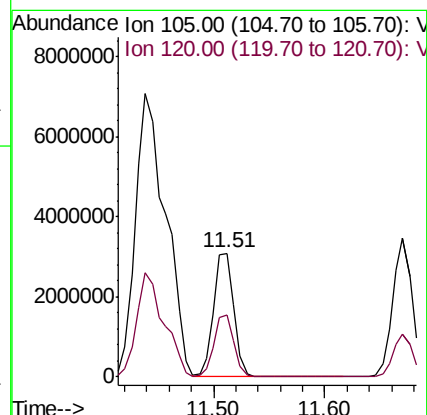
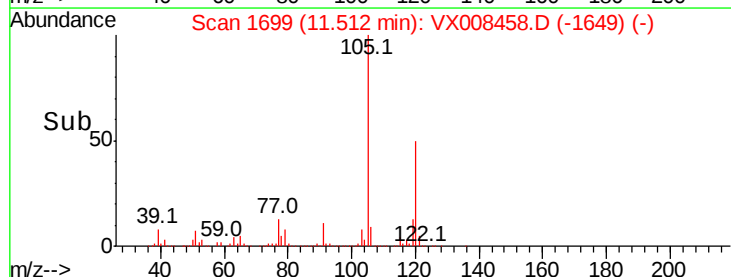
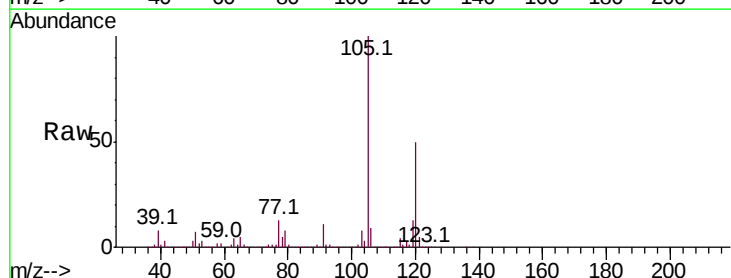
Acq: 26 Mar 2019 15:40

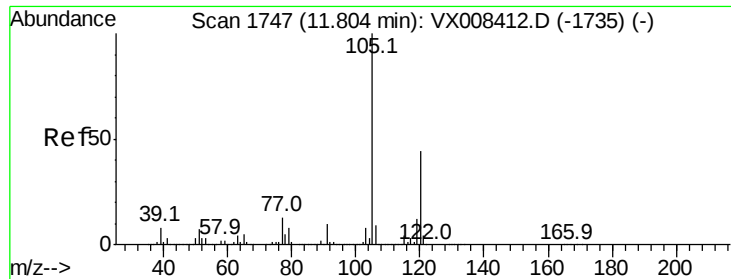
Tgt Ion: 105 Resp: 3895604

Ion Ratio Lower Upper

105 100

120 48.5 23.4 70.3





#84

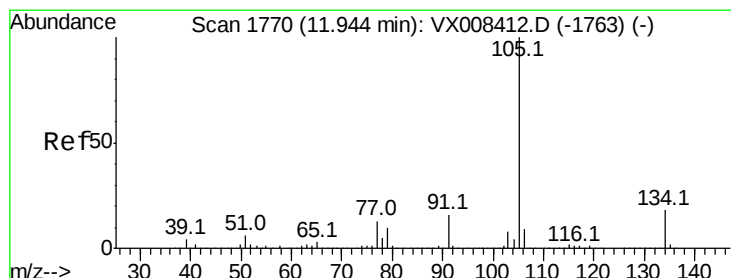
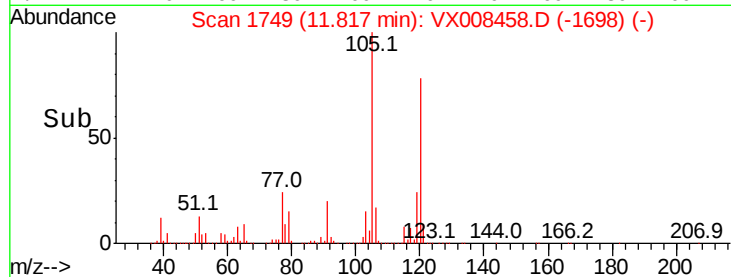
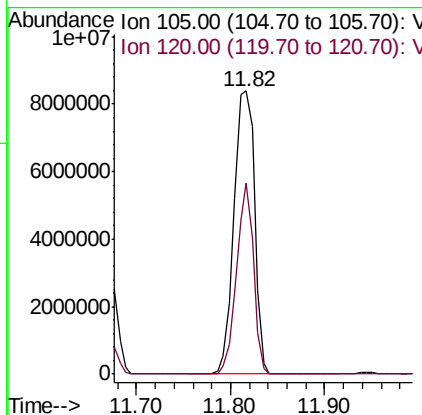
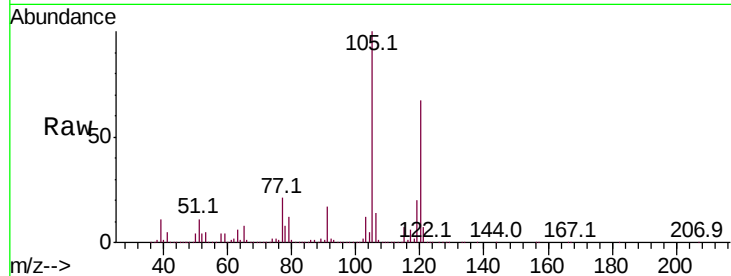
1,2,4-Trimethylbenzene
 Concen: 1227.144 ug/l
 RT: 11.82 min Scan# 1749
 Delta R.T. 0.01 min
 Lab File: VX008458.D
 Acq: 26 Mar 2019 15:40

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-107

Tot Ion:105 Resp:12747644
 Ion Ratio Lower Upper
 105 100
 120 55.1 21.6 65.0

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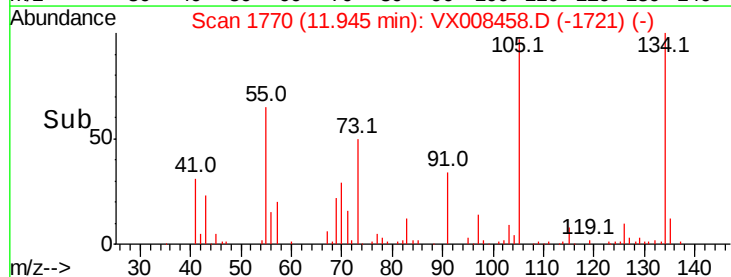
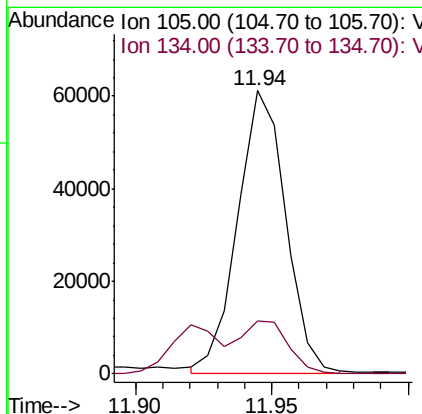
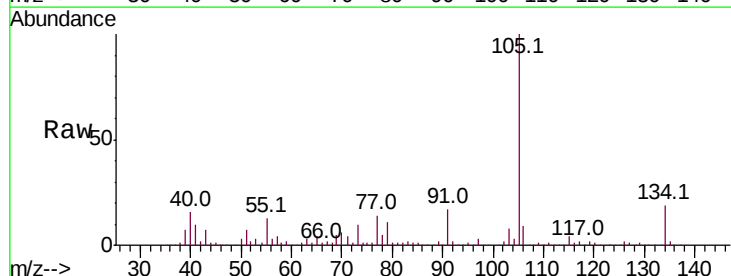
MMDadoda
 3/27/2019 10:41:48 AM

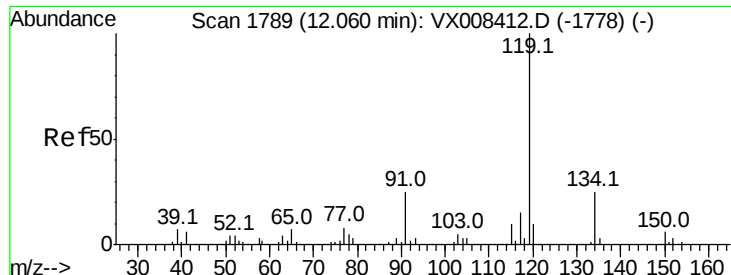


#85

sec-Butylbenzene
 Concen: 6.380 ug/l m
 RT: 11.94 min Scan# 1770
 Delta R.T. 0.00 min
 Lab File: VX008458.D
 Acq: 26 Mar 2019 15:40

Tgt Ion:105 Resp: 75291
 Ion Ratio Lower Upper
 105 100
 134 0.0 9.3 28.0#





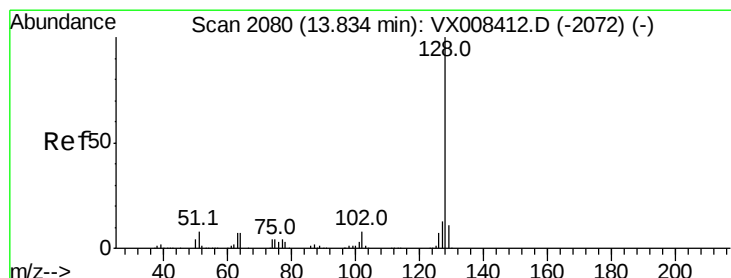
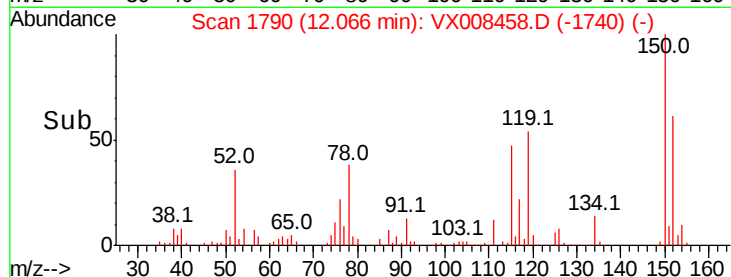
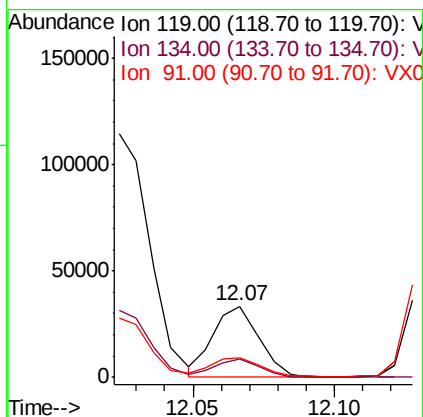
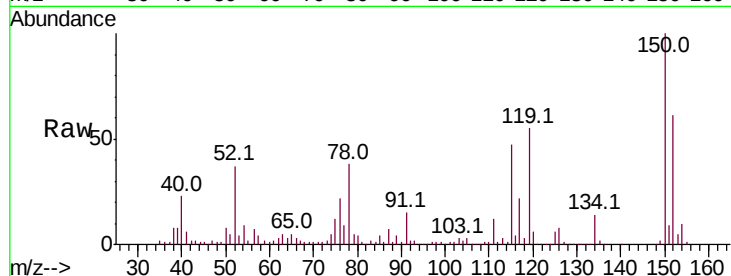
#86
p-Isopropyltoluene
Concen: 3.685 ug/l m
RT: 12.07 min Scan# 1790
Delta R.T. 0.01 min
Lab File: VX008458.D
Acq: 26 Mar 2019 15:40

Instrument :
MSVOA_X
ClientSampled :
MW-107

Tot Ion	Ratio	Lower	Upper
119	100		
134	98.3	12.8	38.4#
91	0.0	12.4	37.0#

Manual Integrations
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#95
Naphthalene
Concen: 370.863 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. 0.00 min
Lab File: VX008458.D
Acq: 26 Mar 2019 15:40

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.5	10.4	15.6
129	11.3	8.7	13.1

