

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX032619\
 Data File : VX008457.D
 Acq On : 26 Mar 2019 15:16
 Operator : JC/SP
 Sample : K2089-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-106

Manual Integrations
 APPROVED

MMDadoda
 3/27/2019 10:41:43 AM

Quant Time: Mar 27 10:49:51 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	248763	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	413538	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	353552	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	160050	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	174391	46.24	ug/l	0.00
Spiked Amount 50.000			Recovery	=	92.48%	
35) Dibromofluoromethane	5.50	113	118812	44.06	ug/l	0.00
Spiked Amount 50.000			Recovery	=	88.12%	
50) Toluene-d8	8.74	98	551329	51.13	ug/l	0.02
Spiked Amount 50.000			Recovery	=	102.26%	
62) 4-Bromofluorobenzene	11.14	95	181628	45.46	ug/l	0.00
Spiked Amount 50.000			Recovery	=	90.92%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	3.04	59	30124	36.052	ug/l #	72
16) Acetone	2.44	43	1049549	532.471	ug/l	99
25) 2-Butanone	4.67	43	1299491	411.229	ug/l	99
31) Cyclohexane	5.58	56	848145	140.305	ug/l	97
39) Methylcyclohexane	7.46	83	392384	74.465	ug/l	93
40) Benzene	6.16	78	21093052	1597.940	ug/l	91
52) Toluene	8.80	92	50442330m	6391.000	ug/l	
59) 2-Hexanone	9.49	43	62209	13.529	ug/l	88
61) 1,2-Dibromoethane	9.67	107	13486	4.113	ug/l	89
67) Ethyl Benzene	10.26	91	12928278	890.943	ug/l #	79
68) m/p-Xylenes	10.37	106	21005327	3979.073	ug/l #	1
69) o-Xylene	10.71	106	11335542	2212.733	ug/l	54
73) Isopropylbenzene	11.02	105	928624	71.318	ug/l	100
78) n-propylbenzene	11.36	91	2714619	177.972	ug/l	99
80) 1,3,5-Trimethylbenzene	11.51	105	3789480	344.245	ug/l	98
84) 1,2,4-Trimethylbenzene	11.81	105	12793634	1149.043	ug/l	80
85) sec-Butylbenzene	11.94	105	82338m	6.510	ug/l	
86) p-Isopropyltoluene	12.07	119	41109m	3.684	ug/l	
89) n-Butylbenzene	12.38	91	272011	25.729	ug/l #	21
95) Naphthalene	13.83	128	4842667	371.047	ug/l	99

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

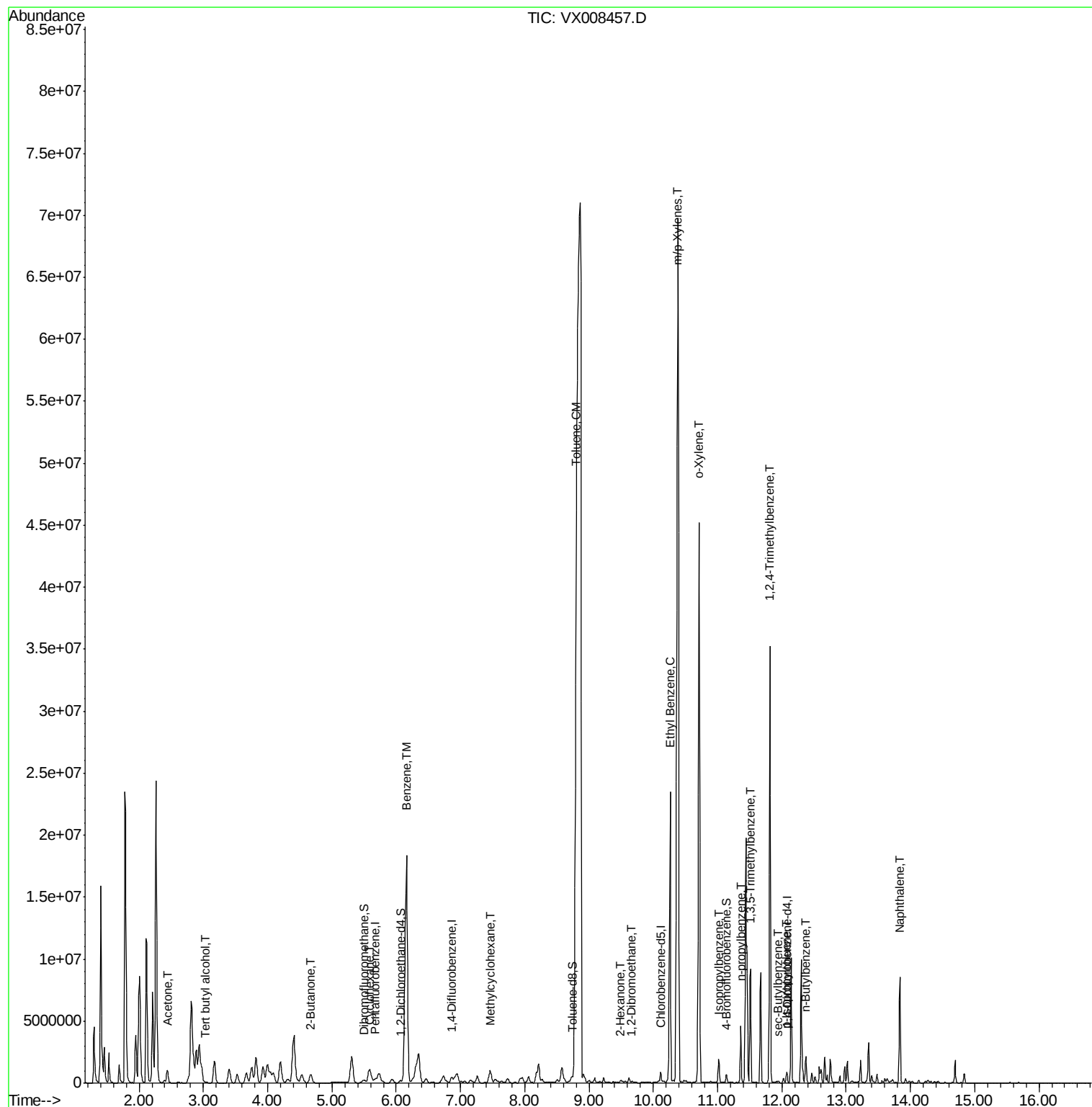
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX032619\
Data File : VX008457.D
Acq On : 26 Mar 2019 15:16
Operator : JC/SP
Sample : K2089-01
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 13 Sample Multiplier: 1

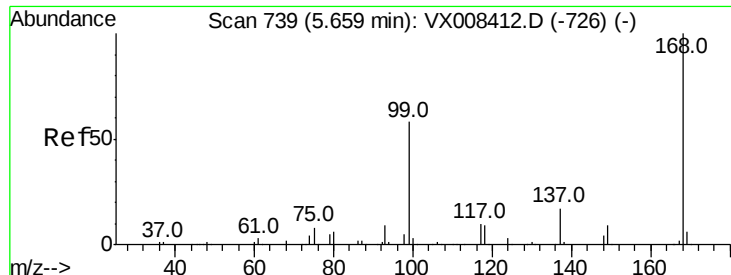
Instrument :
MSVOA_X
ClientSampleId :
MW-106

Manual Integrations
APPROVED

MMDadoda
3/27/2019 10:41:43 AM

Quant Time: Mar 27 10:49:51 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# 740

Delta R.T. 0.01 min

Lab File: VX008457.D

Acq: 26 Mar 2019 15:16

Instrument :

MSVOA_X

ClientSampled :

MW-106

Tot Ion:168 Resp: 248763

Ion Ratio Lower Upper

168 100

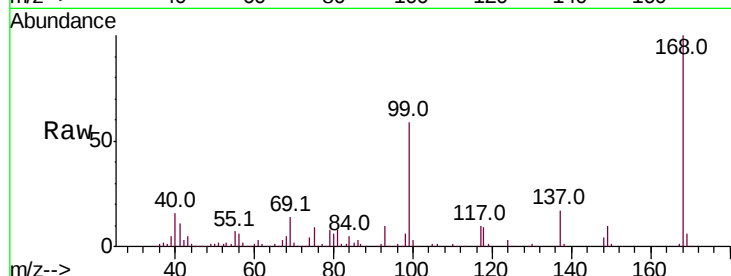
99 59.3 46.0 69.0

Manual Integrations

APPROVED

MMDadoda

3/27/2019 10:41:43 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

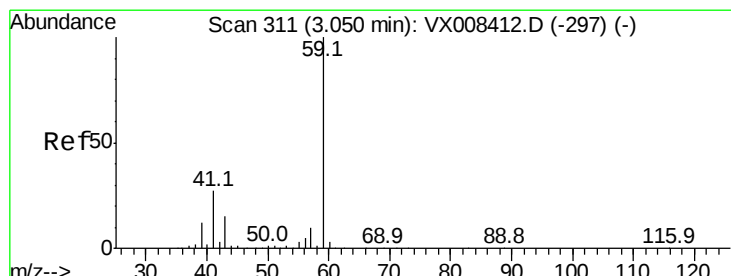
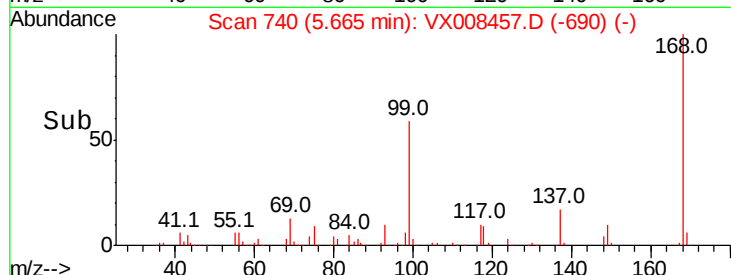
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 36.052 ug/l

RT: 3.04 min Scan# 309

Delta R.T. -0.01 min

Lab File: VX008457.D

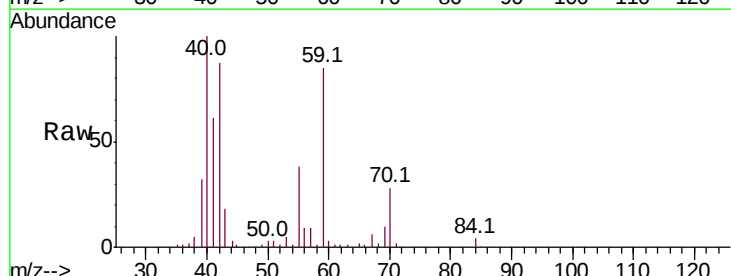
Acq: 26 Mar 2019 15:16

Tgt Ion: 59 Resp: 30124

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

600000

500000

400000

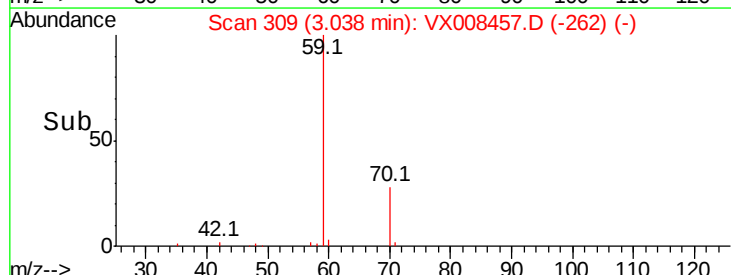
300000

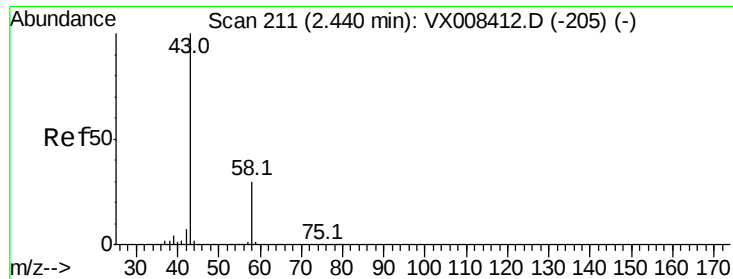
200000

100000

0

Time-->





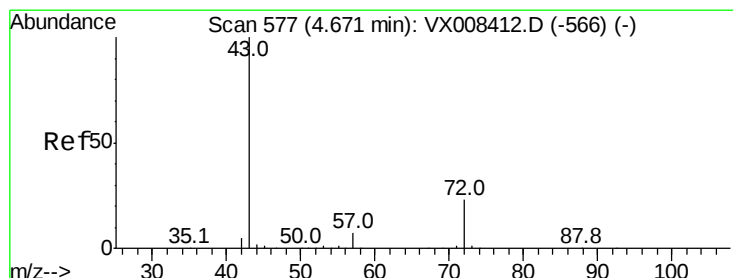
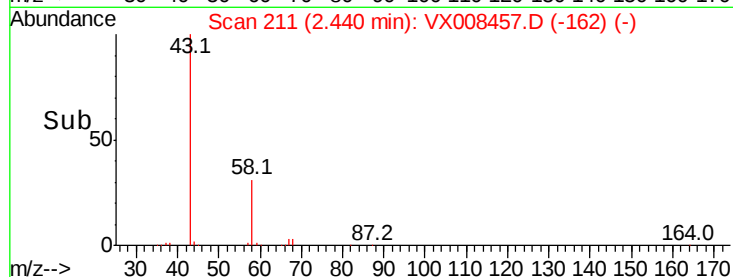
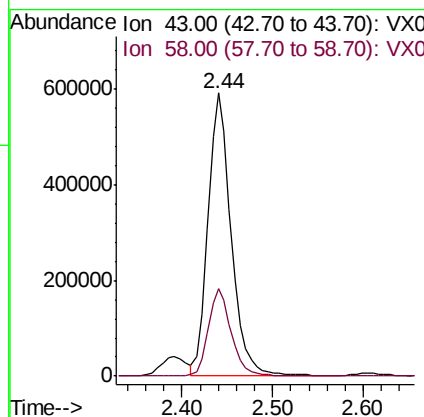
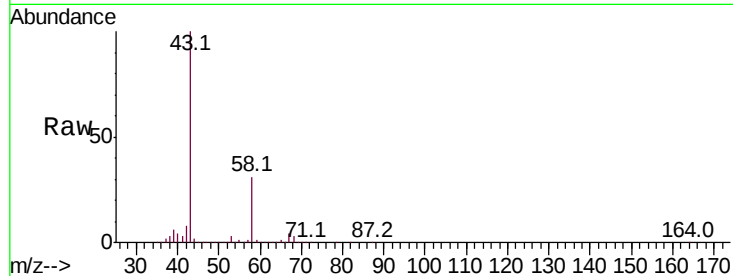
#16
Acetone
Concen: 532.471 ug/l
RT: 2.44 min Scan# 211
Delta R.T. 0.00 min
Lab File: VX008457.D
Acq: 26 Mar 2019 15:16

Instrument :
MSVOA_X
ClientSampleId :
MW-106

Tot Ion: 43 Resp: 1049549
Ion Ratio Lower Upper
43 100
58 30.7 24.2 36.2

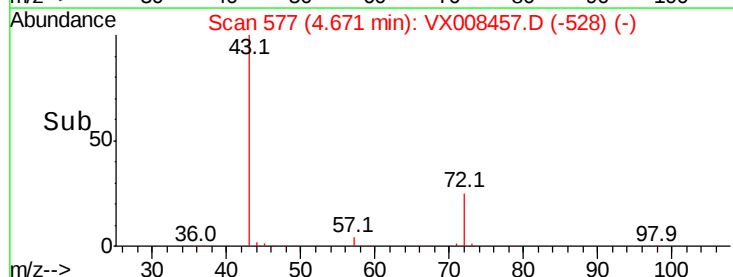
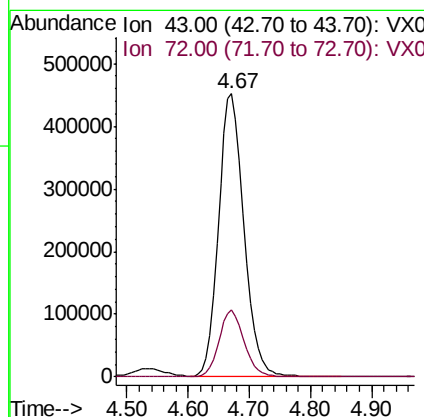
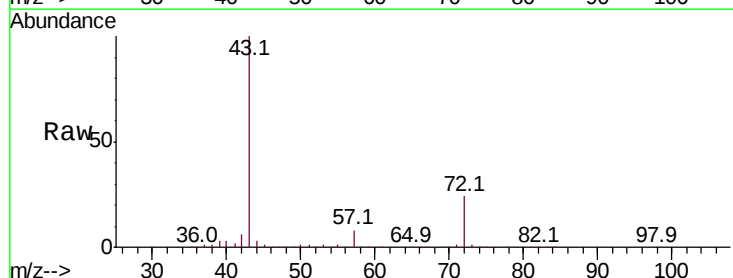
Manual Integrations
APPROVED

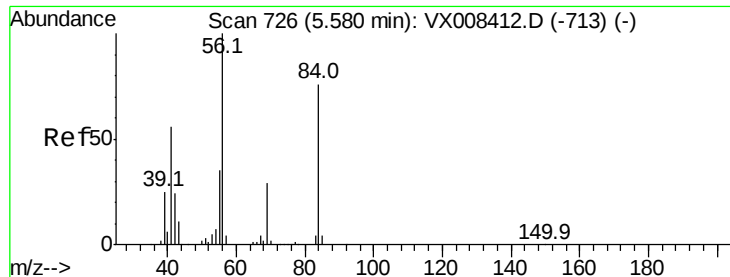
MMDadoda
3/27/2019 10:41:43 AM



#25
2-Butanone
Concen: 411.229 ug/l
RT: 4.67 min Scan# 577
Delta R.T. 0.00 min
Lab File: VX008457.D
Acq: 26 Mar 2019 15:16

Tgt Ion: 43 Resp: 1299491
Ion Ratio Lower Upper
43 100
72 23.6 18.6 28.0





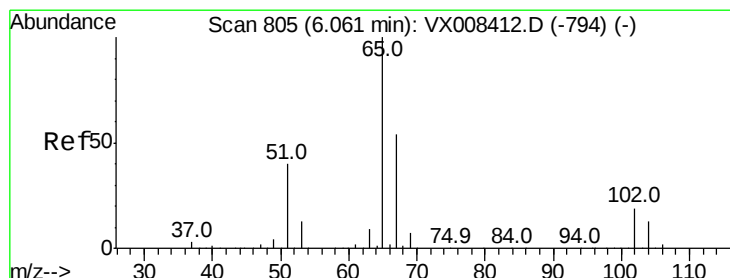
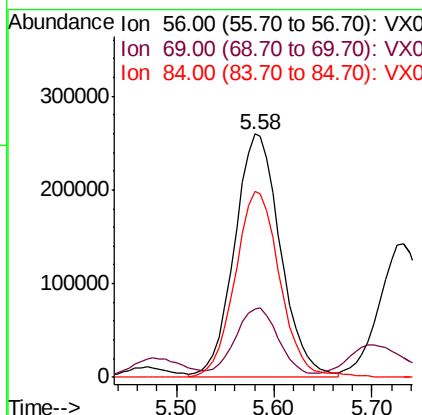
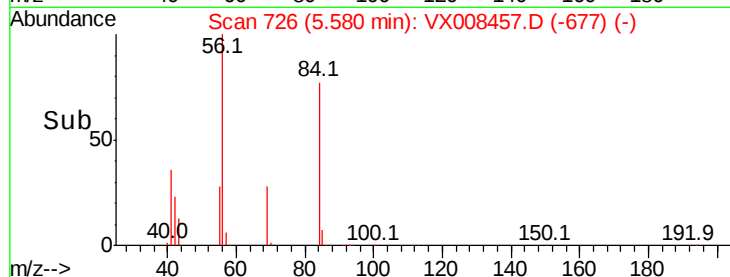
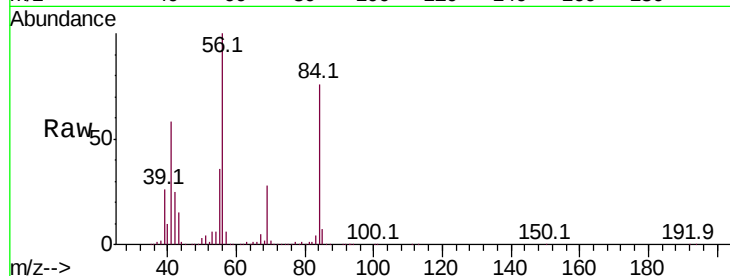
#31
Cvclohexane
Concen: 140.305 ug/l
RT: 5.58 min Scan# 726
Delta R.T. 0.00 min
Lab File: VX008457.D
Acq: 26 Mar 2019 15:16

Instrument :
MSVOA_X
ClientSampleId :
MW-106

Tot Ion	Ratio	Lower	Upper
56	100		
69	24.2	23.2	34.8
84	76.9	60.7	91.1

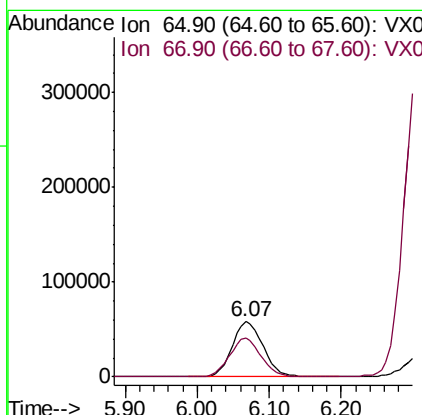
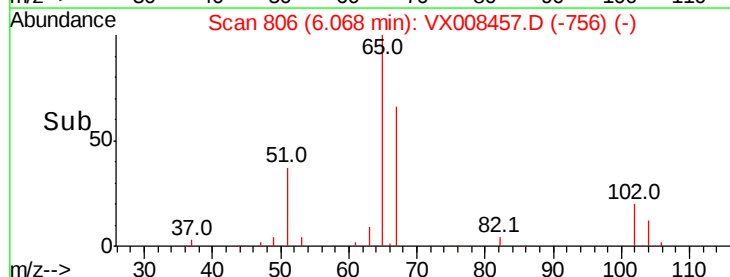
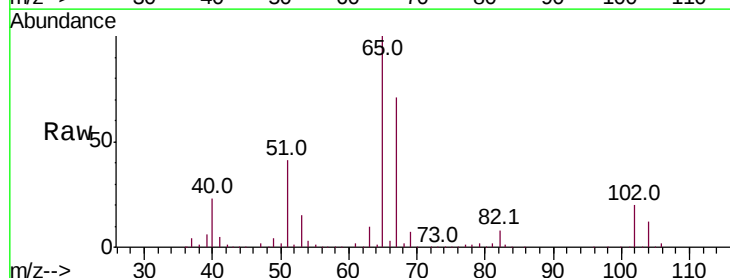
Manual Integrations
APPROVED

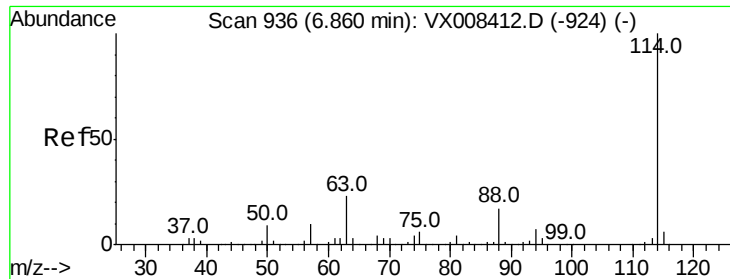
MMDadoda
3/27/2019 10:41:43 AM



#33
1,2-Dichloroethane-d4
Concen: 46.241 ug/l
RT: 6.07 min Scan# 806
Delta R.T. 0.01 min
Lab File: VX008457.D
Acq: 26 Mar 2019 15:16

Tgt Ion	Ratio	Lower	Upper
65	100		
67	69.8	0.0	109.4





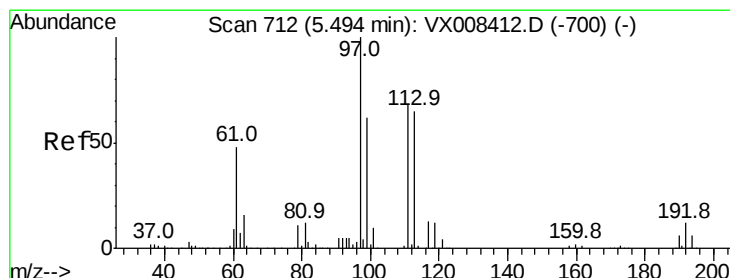
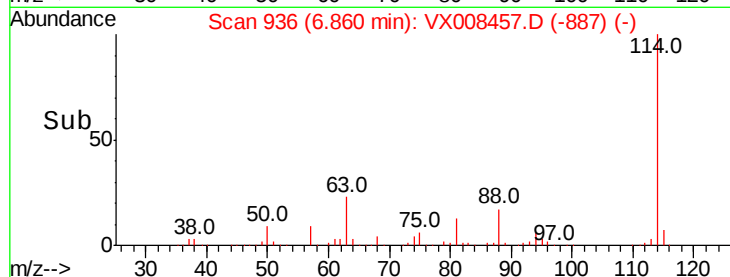
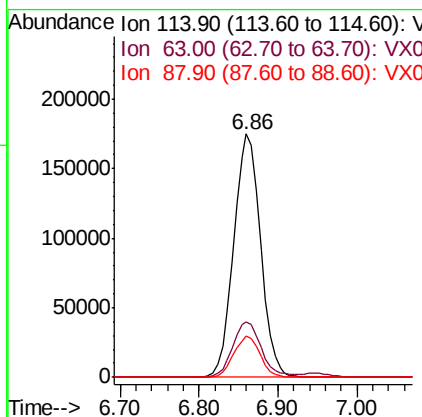
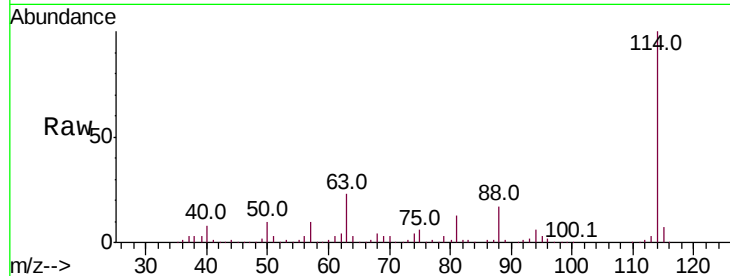
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX008457.D
 Acq: 26 Mar 2019 15:16

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-106

Tot Ion	Ratio	Lower	Upper
114	100		
63	22.7	0.0	46.4
88	16.8	0.0	33.2

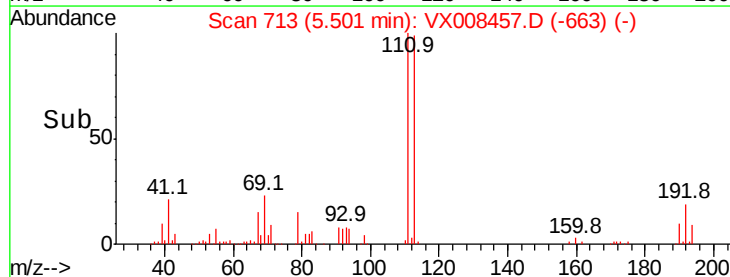
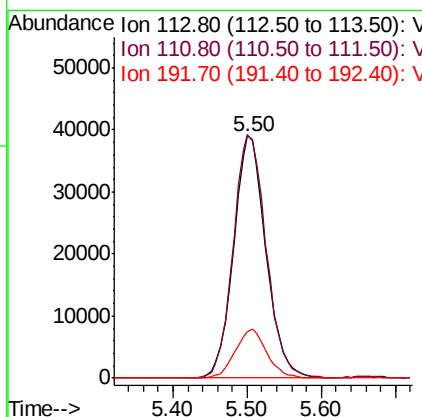
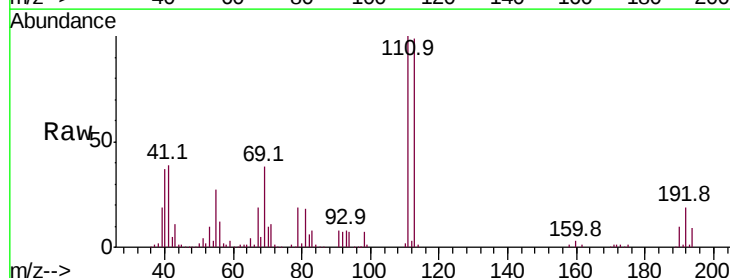
Manual Integrations
 APPROVED

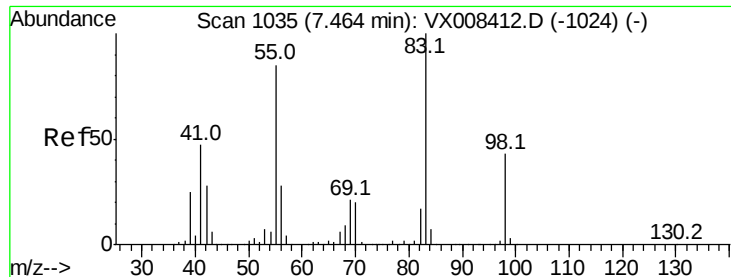
MMDadoda
 3/27/2019 10:41:43 AM



#35
 Dibromofluoromethane
 Concen: 44.062 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.01 min
 Lab File: VX008457.D
 Acq: 26 Mar 2019 15:16

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.4	83.0	124.4
192	19.7	15.6	23.4





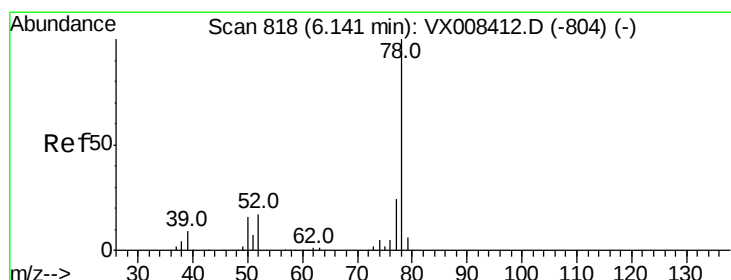
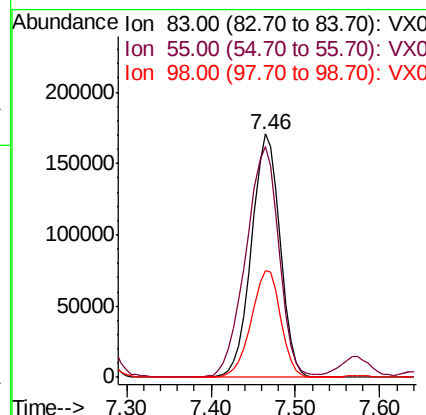
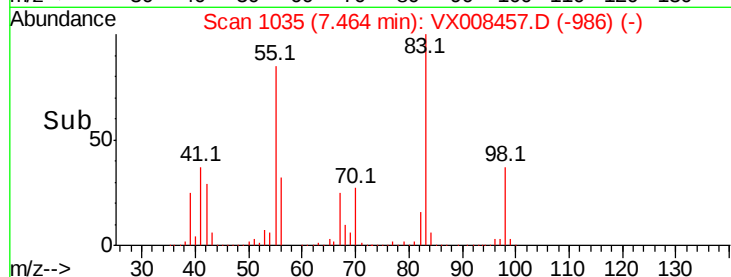
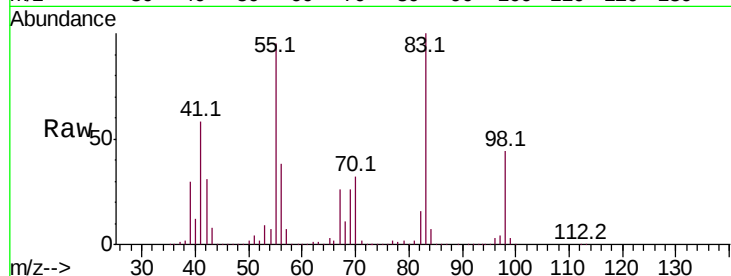
#39
Methvlcvclohexane
Concen: 74.465 ug/l
RT: 7.46 min Scan# 1035
Delta R.T. 0.00 min
Lab File: VX008457.D
Acq: 26 Mar 2019 15:16

Instrument :
MSVOA_X
ClientSampleId :
MW-106

Tot Ion	Ratio	Lower	Upper
83	100		
55	94.4	68.2	102.4
98	44.0	34.2	51.4

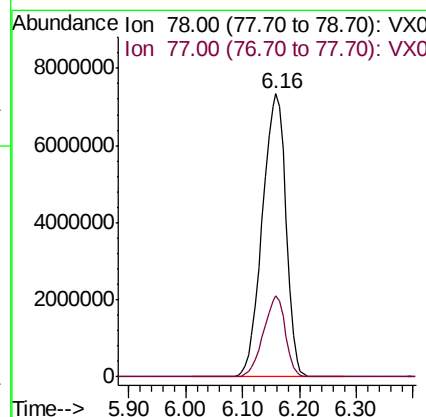
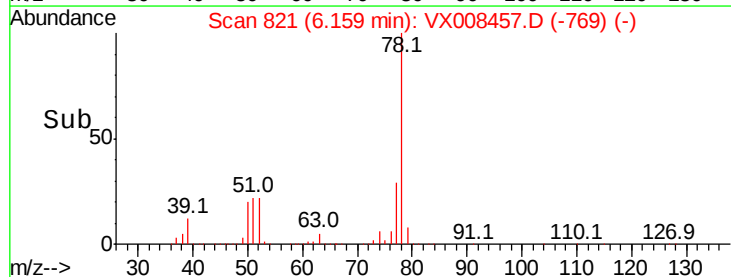
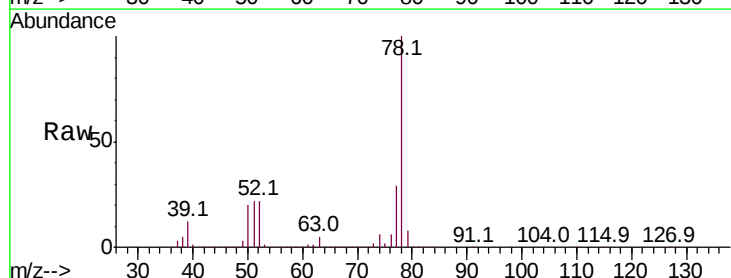
Manual Integrations
APPROVED

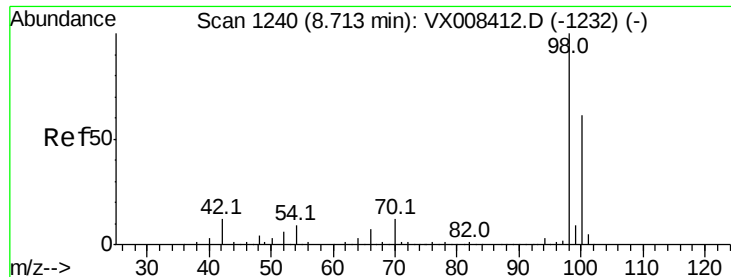
MMDadoda
3/27/2019 10:41:43 AM



#40
Benzene
Concen: 1597.940 ug/l
RT: 6.16 min Scan# 821
Delta R.T. 0.02 min
Lab File: VX008457.D
Acq: 26 Mar 2019 15:16

Tgt Ion	Ratio	Lower	Upper
78	100		
77	28.5	19.3	28.9





#50

Toluene-d8

Concen: 51.134 ug/l

RT: 8.74 min Scan# 1244

Delta R.T. 0.02 min

Lab File: VX008457.D

Acq: 26 Mar 2019 15:16

Instrument :

MSVOA_X

ClientSampleId :

MW-106

Tot Ion: 98 Resp: 551329

Ion Ratio Lower Upper

98 100

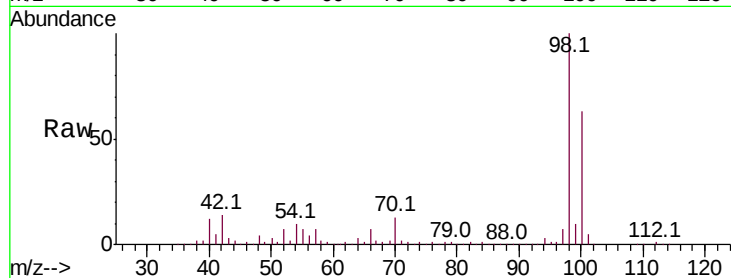
100 64.2 51.1 76.7

Manual Integrations

APPROVED

MMDadoda

3/27/2019 10:41:43 AM



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.74

150000

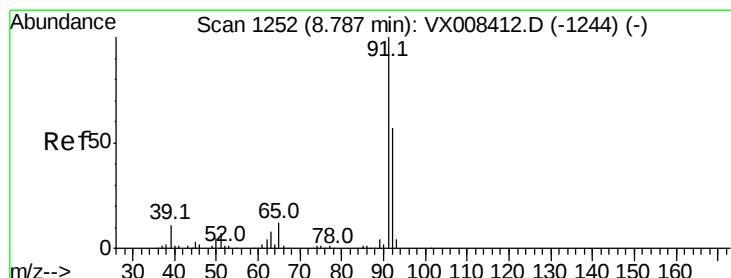
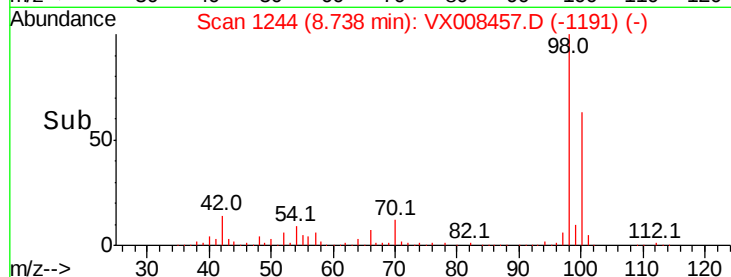
100000

50000

0

Time-->

8.60 8.70 8.80 8.90



#52

Toluene

Concen: 6391.000 ug/l m

RT: 8.80 min Scan# 1254

Delta R.T. 0.01 min

Lab File: VX008457.D

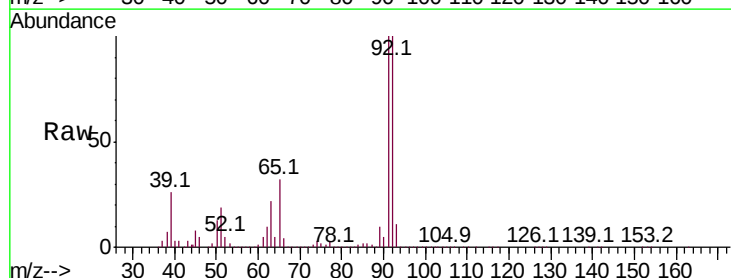
Acq: 26 Mar 2019 15:16

Tgt Ion: 92 Resp: 50442330

Ion Ratio Lower Upper

92 100

91 0.0 140.2 210.4#



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0

1e+07

8000000

6000000

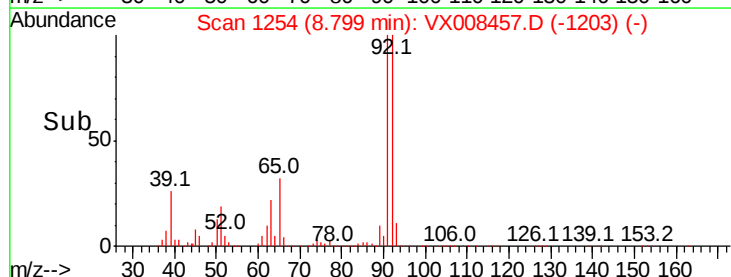
4000000

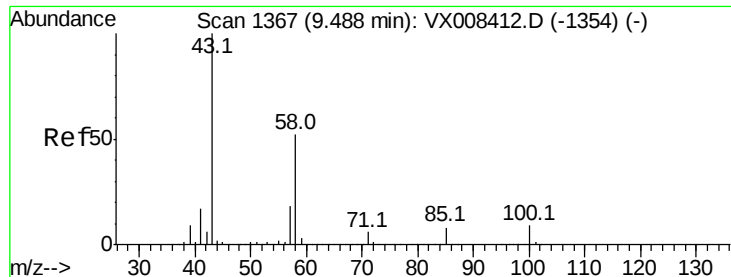
2000000

0

Time-->

8.70 8.80 8.90





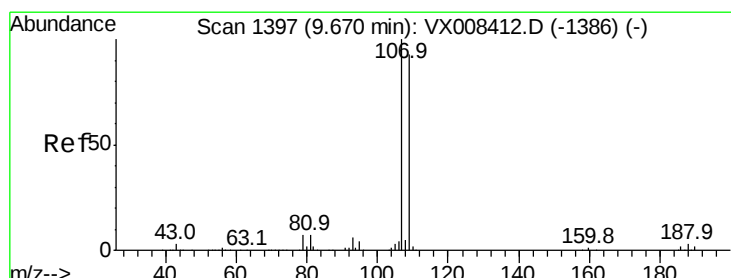
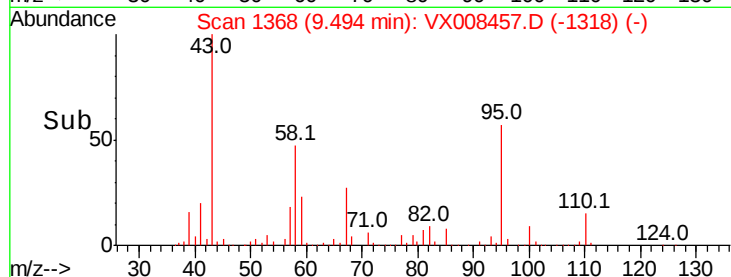
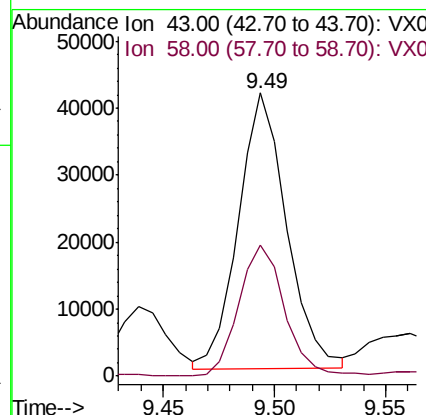
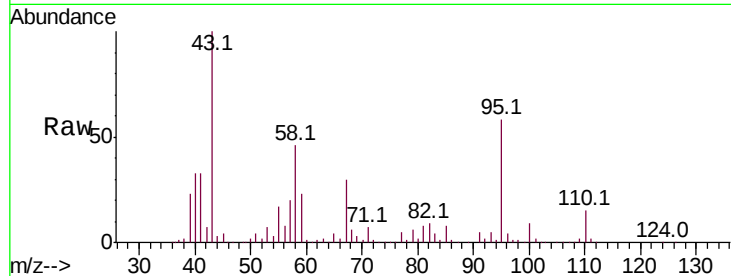
#59
2-Hexanone
Concen: 13.529 ug/l
RT: 9.49 min Scan# 1368
Delta R.T. 0.01 min
Lab File: VX008457.D
Acq: 26 Mar 2019 15:16

Instrument :
MSVOA_X
ClientSampled :
MW-106

Tot Ion: 43 Resp: 62209
Ion Ratio Lower Upper
43 100
58 44.4 26.3 78.9

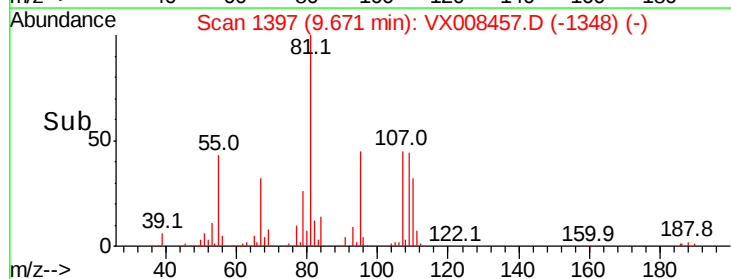
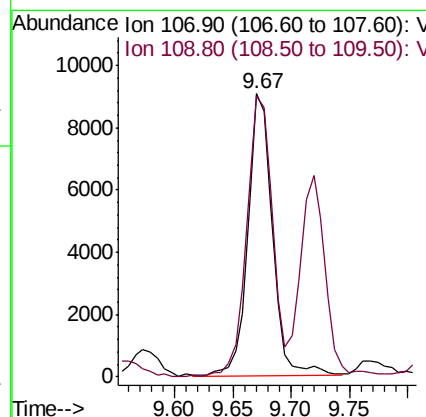
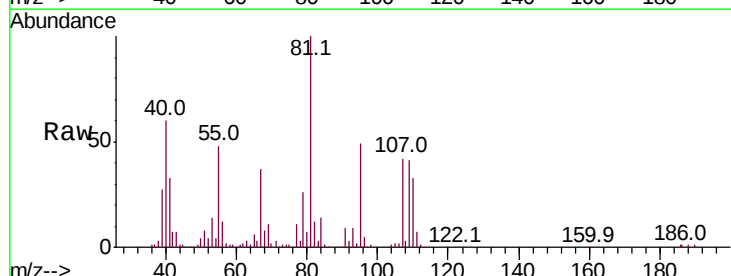
Manual Integrations
APPROVED

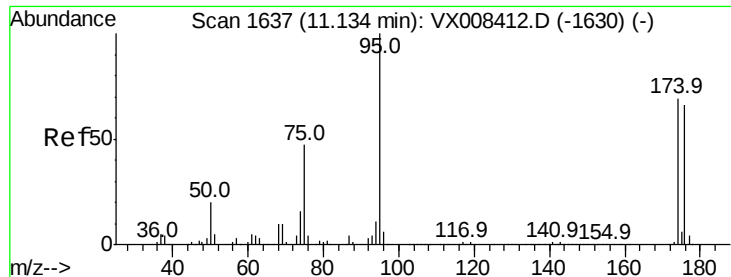
MMDadoda
3/27/2019 10:41:43 AM



#61
1,2-Dibromoethane
Concen: 4.113 ug/l
RT: 9.67 min Scan# 1397
Delta R.T. 0.00 min
Lab File: VX008457.D
Acq: 26 Mar 2019 15:16

Tgt Ion: 107 Resp: 13486
Ion Ratio Lower Upper
107 100
109 103.6 74.6 111.8





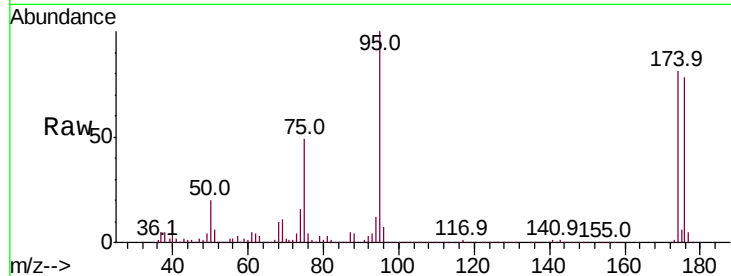
#62
4-Bromofluorobenzene
Concen: 45.459 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.01 min
Lab File: VX008457.D
Acq: 26 Mar 2019 15:16

Instrument :
MSVOA_X
ClientSampleId :
MW-106

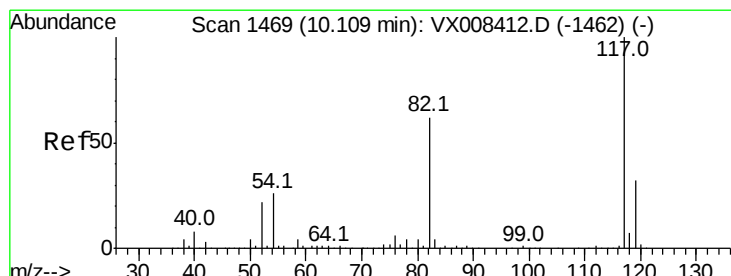
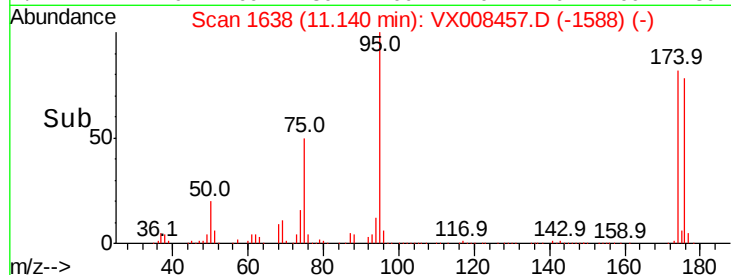
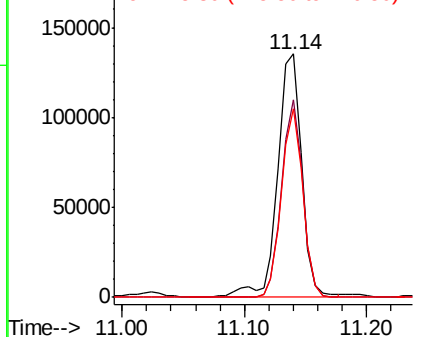
Tot Ion	Ratio	Resp	Lower	Upper
95	100	181628		
174	72.8	0.0	147.2	
176	70.5	0.0	142.4	

Manual Integrations
APPROVED

MMDadoda
3/27/2019 10:41:43 AM

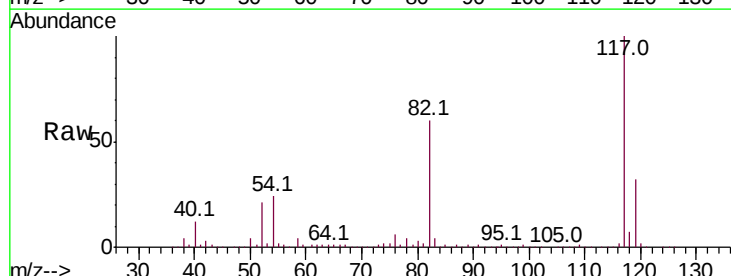


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

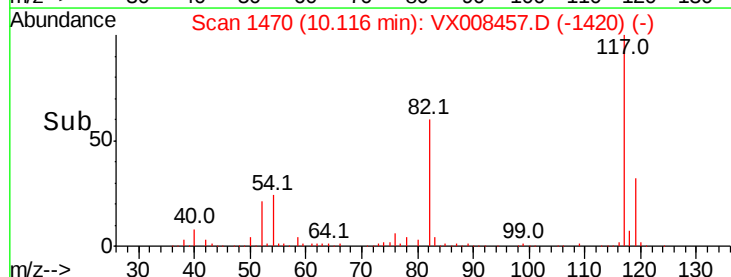
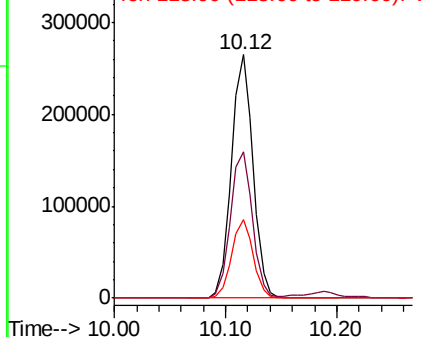


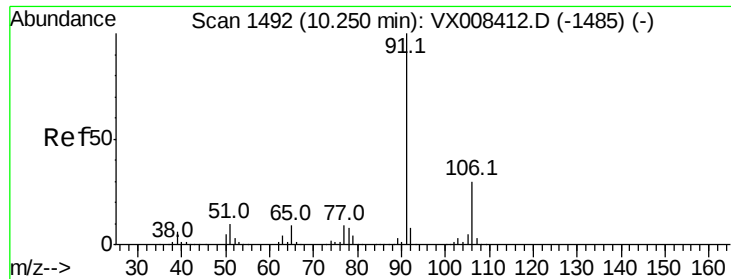
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX008457.D
Acq: 26 Mar 2019 15:16

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	353552		
82	60.1	49.4	74.2	
119	32.4	25.4	38.0	



Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V





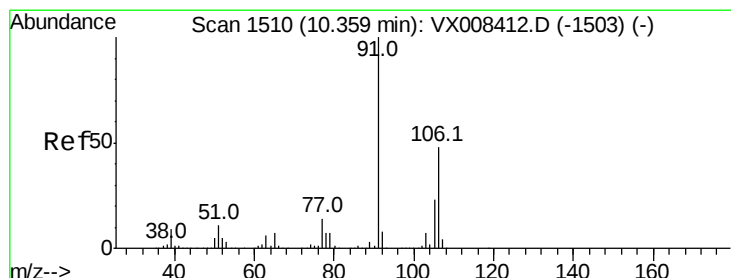
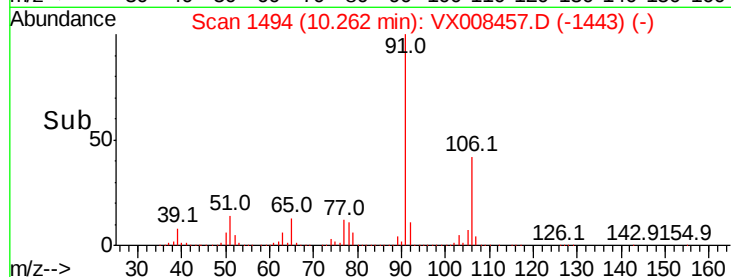
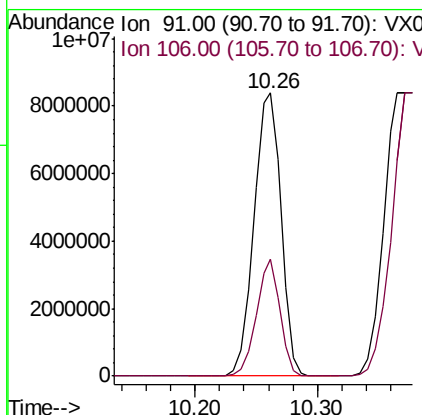
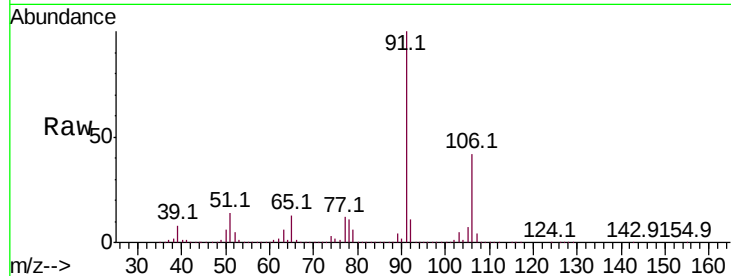
#67
Ethyl Benzene
Concen: 890.943 ug/l
RT: 10.26 min Scan# 1494
Delta R.T. 0.01 min
Lab File: VX008457.D
Acq: 26 Mar 2019 15:16

Instrument :
MSVOA_X
ClientSampleId :
MW-106

Tot Ion: 91 Resp:12928278
Ion Ratio Lower Upper
91 100
106 41.6 24.0 36.0#

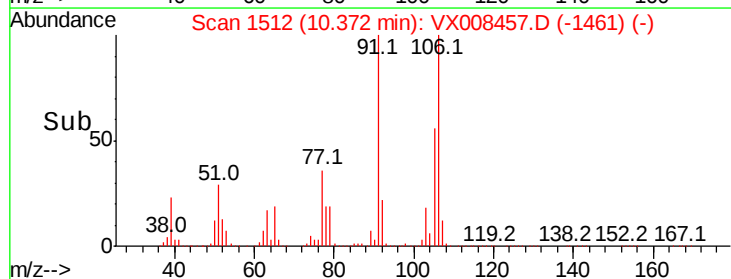
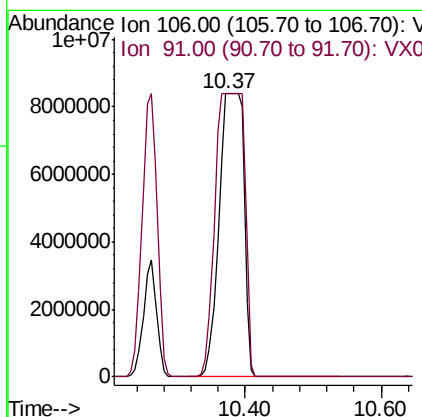
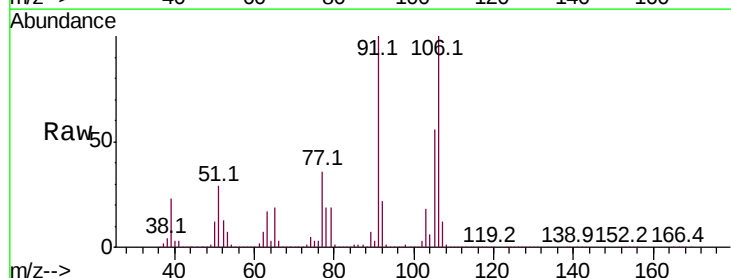
Manual Integrations
APPROVED

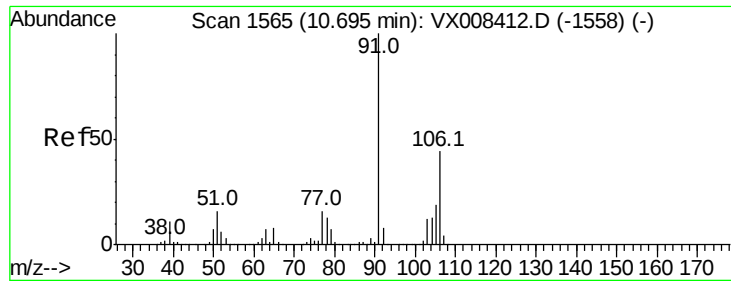
MMDadoda
3/27/2019 10:41:43 AM



#68
m/p-Xylenes
Concen: 3979.073 ug/l
RT: 10.37 min Scan# 1512
Delta R.T. 0.01 min
Lab File: VX008457.D
Acq: 26 Mar 2019 15:16

Tgt Ion:106 Resp:21005327
Ion Ratio Lower Upper
106 100
91 0.0 168.6 253.0#





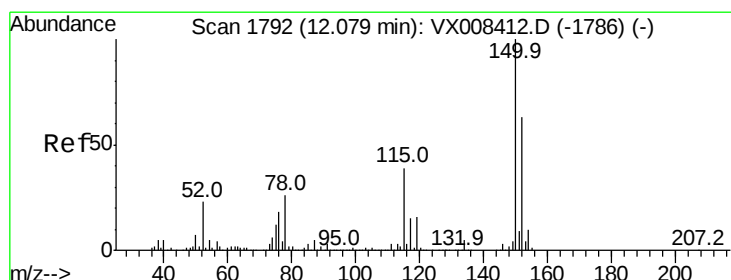
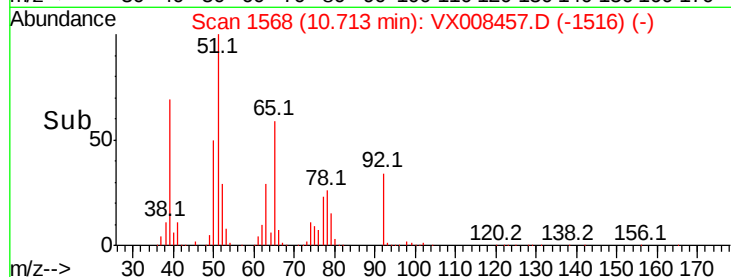
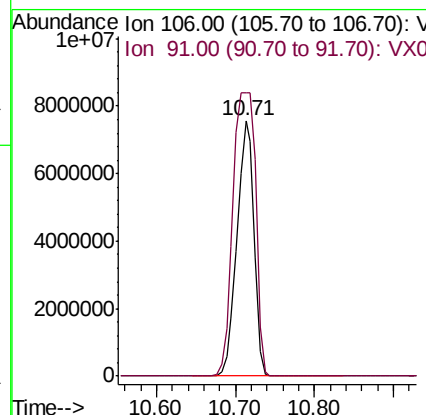
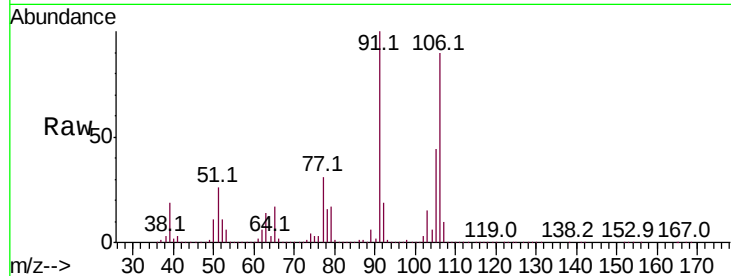
#69
o-Xylene
Concen: 2212.733 ug/l
RT: 10.71 min Scan# 1568
Delta R.T. 0.02 min
Lab File: VX008457.D
Acq: 26 Mar 2019 15:16

Instrument :
MSVOA_X
ClientSampleId :
MW-106

Tot Ion:106 Resp:1133542
Ion Ratio Lower Upper
106 100
91 148.6 111.4 334.2

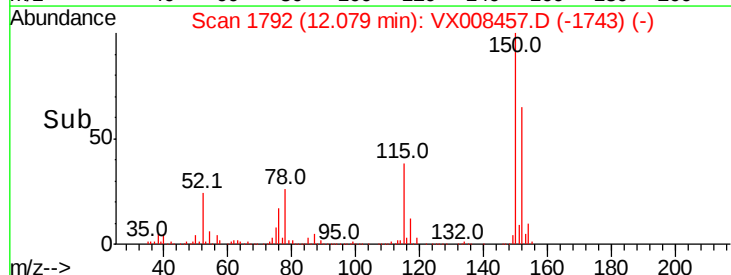
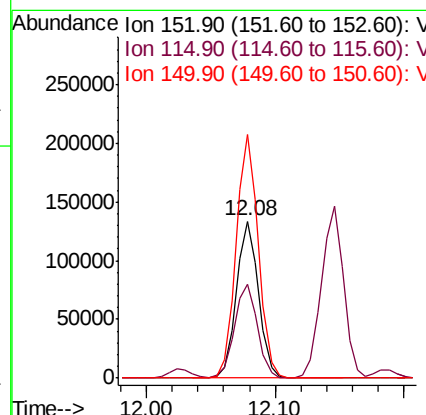
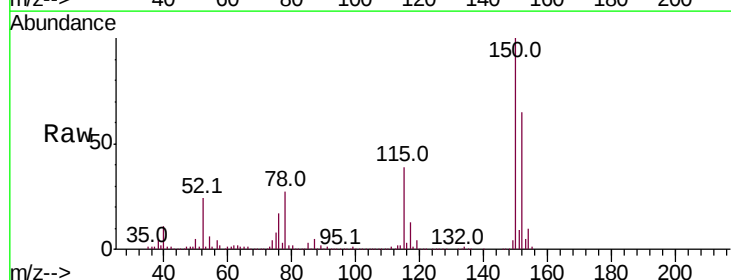
Manual Integrations
APPROVED

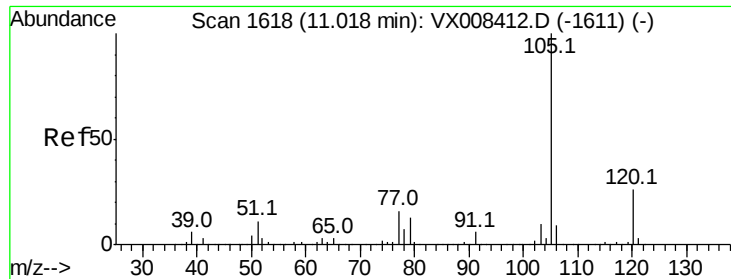
MMDadoda
3/27/2019 10:41:43 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX008457.D
Acq: 26 Mar 2019 15:16

Tgt Ion:152 Resp: 160050
Ion Ratio Lower Upper
152 100
115 61.8 43.5 130.5
150 155.8 0.0 348.8





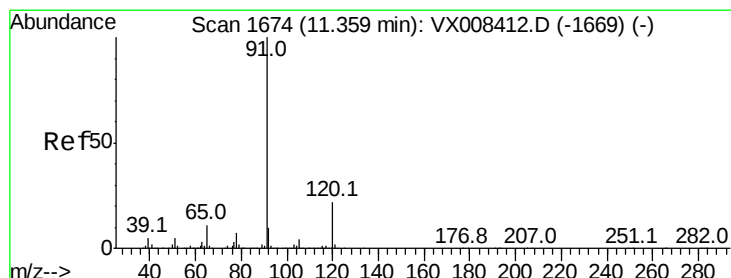
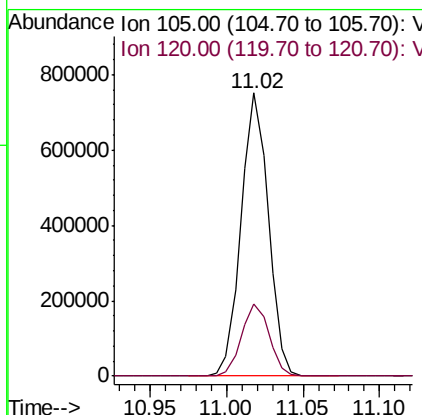
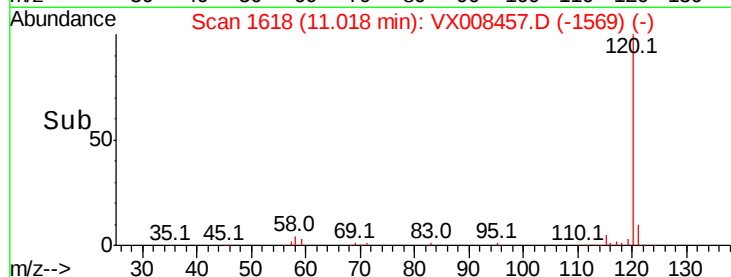
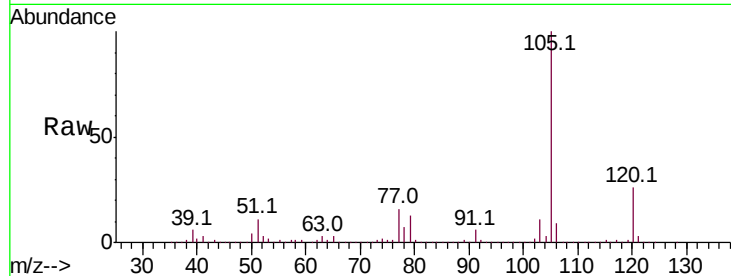
#73
Isopropylbenzene
Concen: 71.318 ug/l
RT: 11.02 min Scan# 1618
Delta R.T. 0.00 min
Lab File: VX008457.D
Acq: 26 Mar 2019 15:16

Instrument :
MSVOA_X
ClientSampleId :
MW-106

Tot Ion: 105 Resp: 928624
Ion Ratio Lower Upper
105 100
120 25.9 12.9 38.7

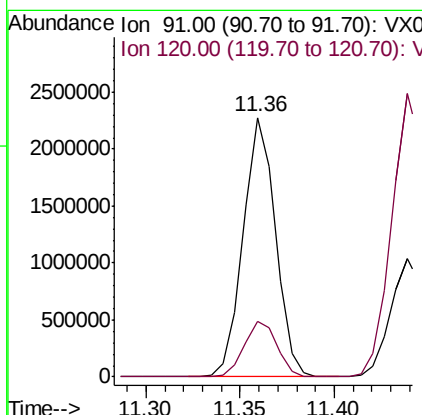
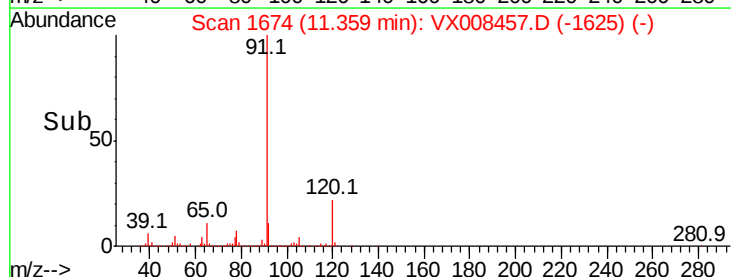
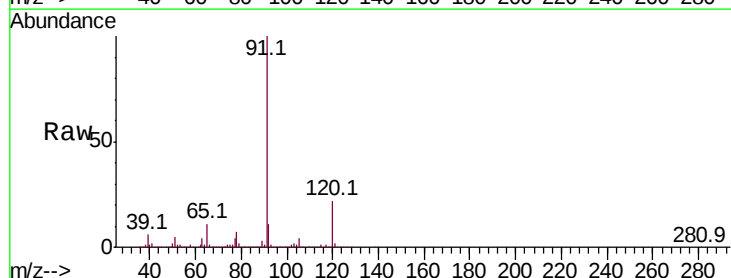
Manual Integrations
APPROVED

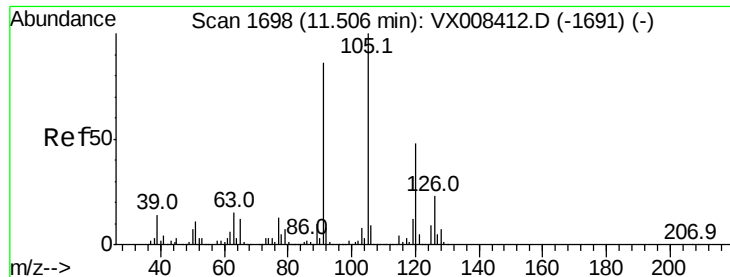
MMDadoda
3/27/2019 10:41:43 AM



#78
n-propylbenzene
Concen: 177.972 ug/l
RT: 11.36 min Scan# 1674
Delta R.T. 0.00 min
Lab File: VX008457.D
Acq: 26 Mar 2019 15:16

Tgt Ion: 91 Resp: 2714619
Ion Ratio Lower Upper
91 100
120 21.8 10.8 32.4





#80

1,3,5-Trimethylbenzene

Concen: 344.245 ug/l

RT: 11.51 min Scan# 1699

Delta R.T. 0.01 min

Lab File: VX008457.D

Acq: 26 Mar 2019 15:16

Instrument :

MSVOA_X

ClientSampleId :

MW-106

Tot Ion:105 Resp: 3789480

Ion Ratio Lower Upper

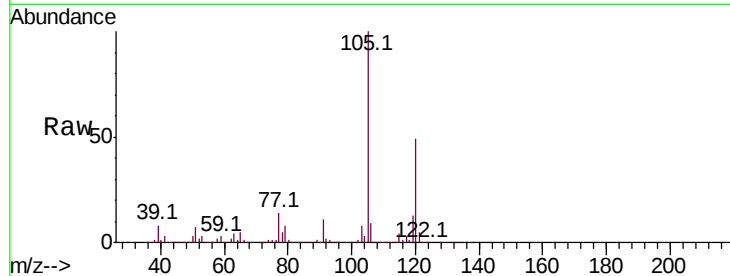
105 100

120 48.3 23.4 70.3

Manual Integrations
APPROVED

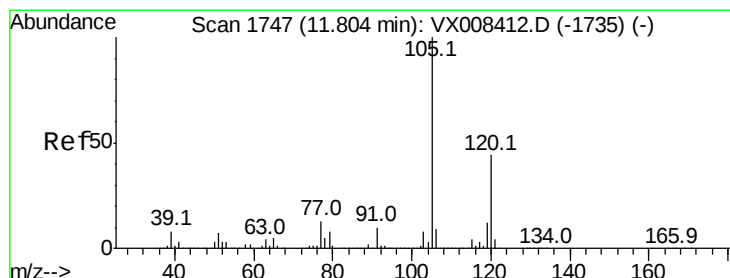
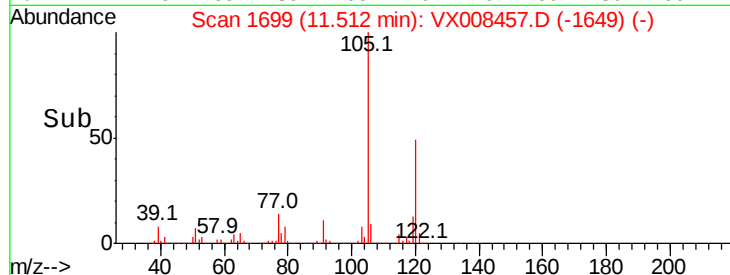
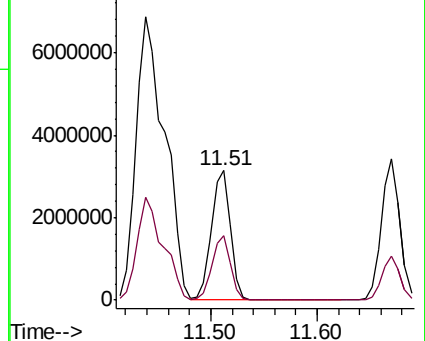
MMDadoda

3/27/2019 10:41:43 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#84

1,2,4-Trimethylbenzene

Concen: 1149.043 ug/l

RT: 11.81 min Scan# 1748

Delta R.T. 0.01 min

Lab File: VX008457.D

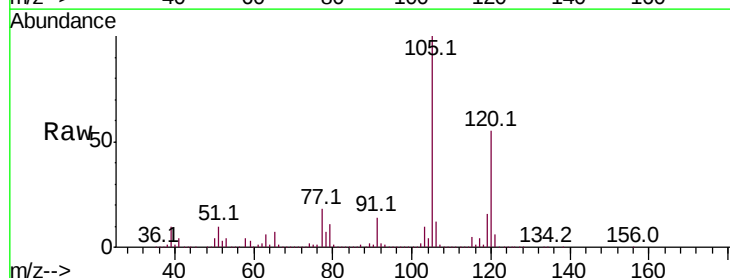
Acq: 26 Mar 2019 15:16

Tgt Ion:105 Resp:12793634

Ion Ratio Lower Upper

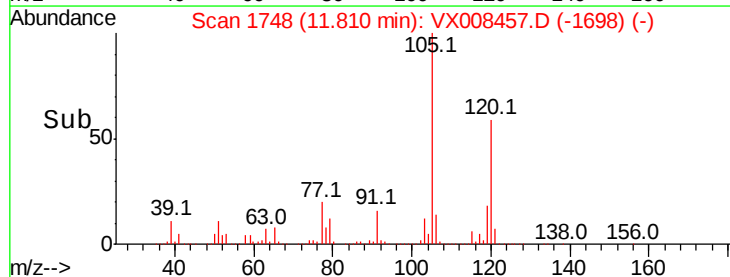
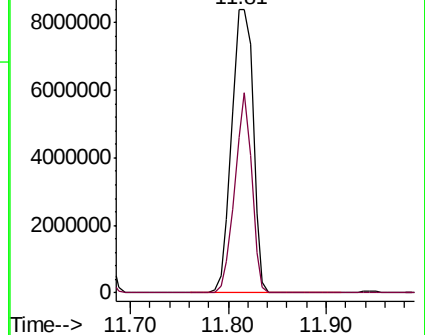
105 100

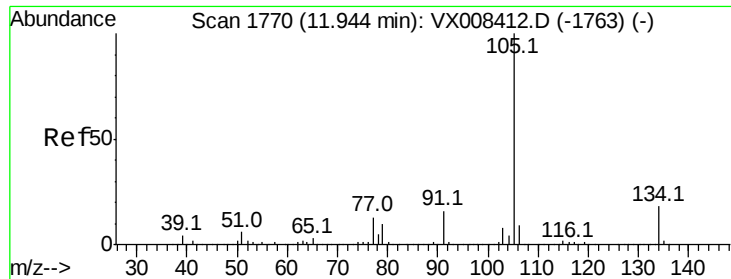
120 56.0 21.6 65.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





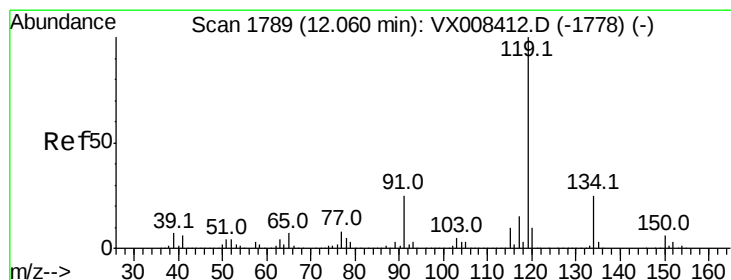
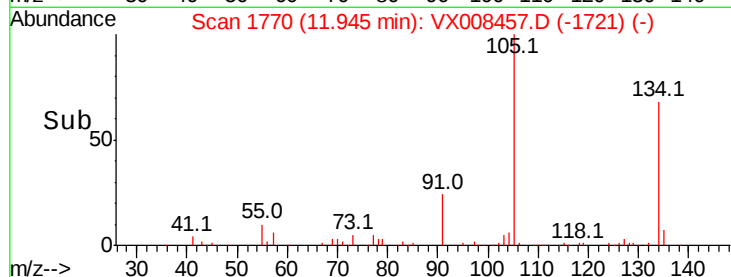
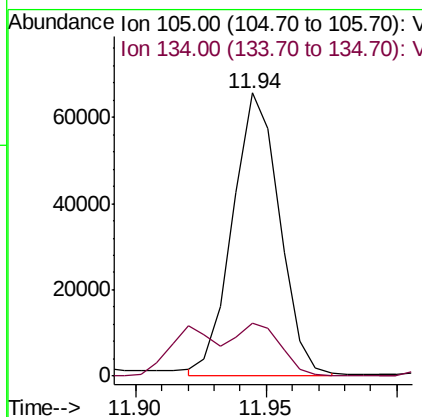
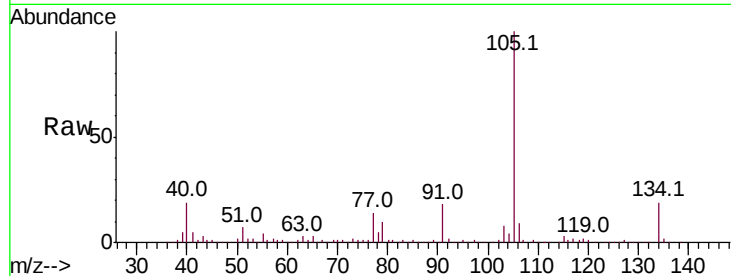
#85
 sec-Butylbenzene
 Concen: 6.510 ug/l m
 RT: 11.94 min Scan# 1770
 Delta R.T. 0.00 min
 Lab File: VX008457.D
 Acq: 26 Mar 2019 15:16

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-106

Tot Ion:105 Resp: 82338
 Ion Ratio Lower Upper
 105 100
 134 0.0 9.3 28.0#

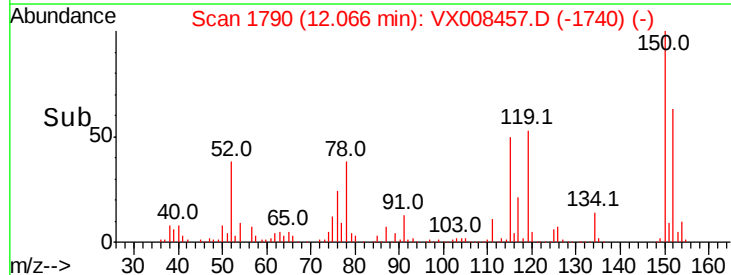
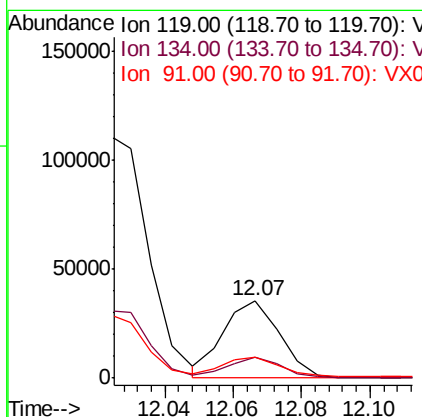
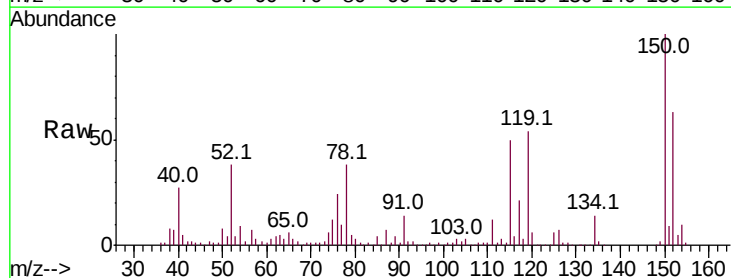
Manual Integrations
 APPROVED

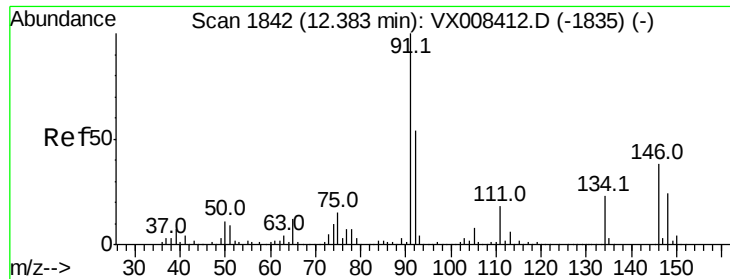
MMDadoda
 3/27/2019 10:41:43 AM



#86
 p-Isopropyltoluene
 Concen: 3.684 ug/l m
 RT: 12.07 min Scan# 1790
 Delta R.T. 0.01 min
 Lab File: VX008457.D
 Acq: 26 Mar 2019 15:16

Tgt Ion:119 Resp: 41109
 Ion Ratio Lower Upper
 119 100
 134 94.2 12.8 38.4#
 91 0.0 12.4 37.0#





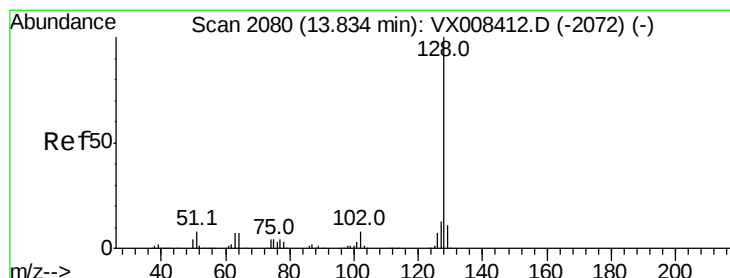
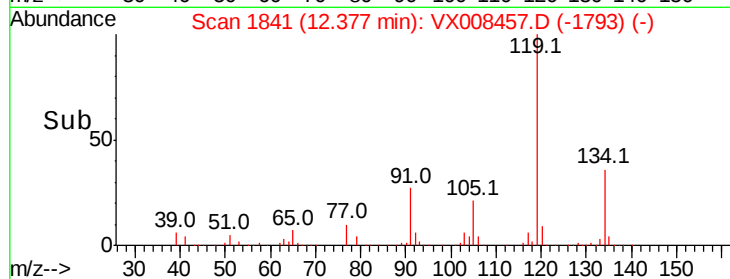
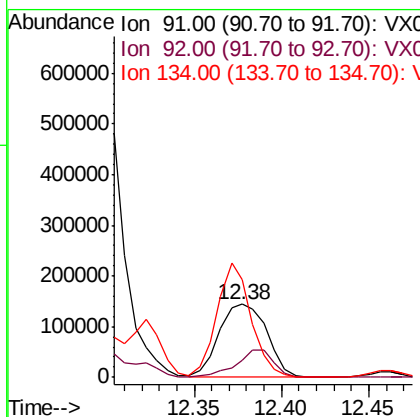
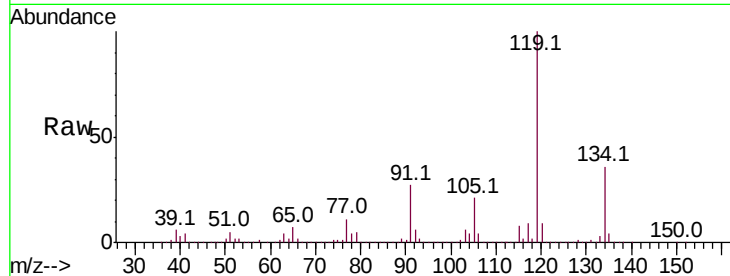
#89
n-Butylbenzene
Concen: 25.729 ug/l
RT: 12.38 min Scan# 1841
Delta R.T. -0.01 min
Lab File: VX008457.D
Acq: 26 Mar 2019 15:16

Instrument :
MSVOA_X
ClientSampleId :
MW-106

Tot Ion	Ratio	Lower	Upper
91	100		
92	29.4	26.5	79.5
134	112.9	11.8	35.4

Manual Integrations
APPROVED

MMDadoda
3/27/2019 10:41:43 AM



#95
Naphthalene
Concen: 371.047 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. 0.00 min
Lab File: VX008457.D
Acq: 26 Mar 2019 15:16

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.5	10.4	15.6
129	11.4	8.7	13.1

