

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX081718\
 Data File : VX004137.D
 Acq On : 17 Aug 2018 17:29
 Operator : JC/MD
 Sample : J4522-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-2

Manual Integrations
 APPROVED

MMDadoda
 8/20/2018 10:04:27 AM

Quant Time: Aug 31 03:19:51 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X081418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 14 13:27:25 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	262525	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	400048	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	370576	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	216006	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	180923	48.91	ug/l	0.00
Spiked Amount			Recovery	=	97.82%	
35) Dibromofluoromethane	5.51	113	154110	51.47	ug/l	0.00
Spiked Amount			Recovery	=	102.94%	
50) Toluene-d8	8.72	98	599249	49.37	ug/l	0.00
Spiked Amount			Recovery	=	98.74%	
62) 4-Bromofluorobenzene	11.14	95	218156	49.55	ug/l	0.00
Spiked Amount			Recovery	=	99.10%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.04	59	154679	207.66	ug/l #	73
19) Methyl tert-butyl Ether	3.20	73	233240	23.97	ug/l #	1
22) Diisopropyl ether	3.87	45	17138	1.66	ug/l	90
31) Cyclohexane	5.57	56	93017	18.19	ug/l	96
39) Methylcyclohexane	7.46	83	42122	8.16	ug/l #	72
40) Benzene	6.15	78	1538077	112.52	ug/l	100
52) Toluene	8.79	92	43146	4.99	ug/l	99
67) Ethyl Benzene	10.25	91	801269	52.86	ug/l	98
68) m/p-Xylenes	10.36	106	23076	3.89	ug/l	95
69) o-Xylene	10.70	106	7786	1.37	ug/l	88
73) Isopropylbenzene	11.02	105	164678	11.27	ug/l	95
78) n-propylbenzene	11.36	91	442330	27.04	ug/l	99
80) 1,3,5-Trimethylbenzene	11.51	105	4796m	0.40	ug/l	
83) tert-Butylbenzene	11.77	119	6666	0.55	ug/l	85
84) 1,2,4-Trimethylbenzene	11.81	105	114047	9.20	ug/l	98
85) sec-Butylbenzene	11.95	105	137594	9.74	ug/l	99
89) n-Butylbenzene	12.39	91	111439m	11.06	ug/l	

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

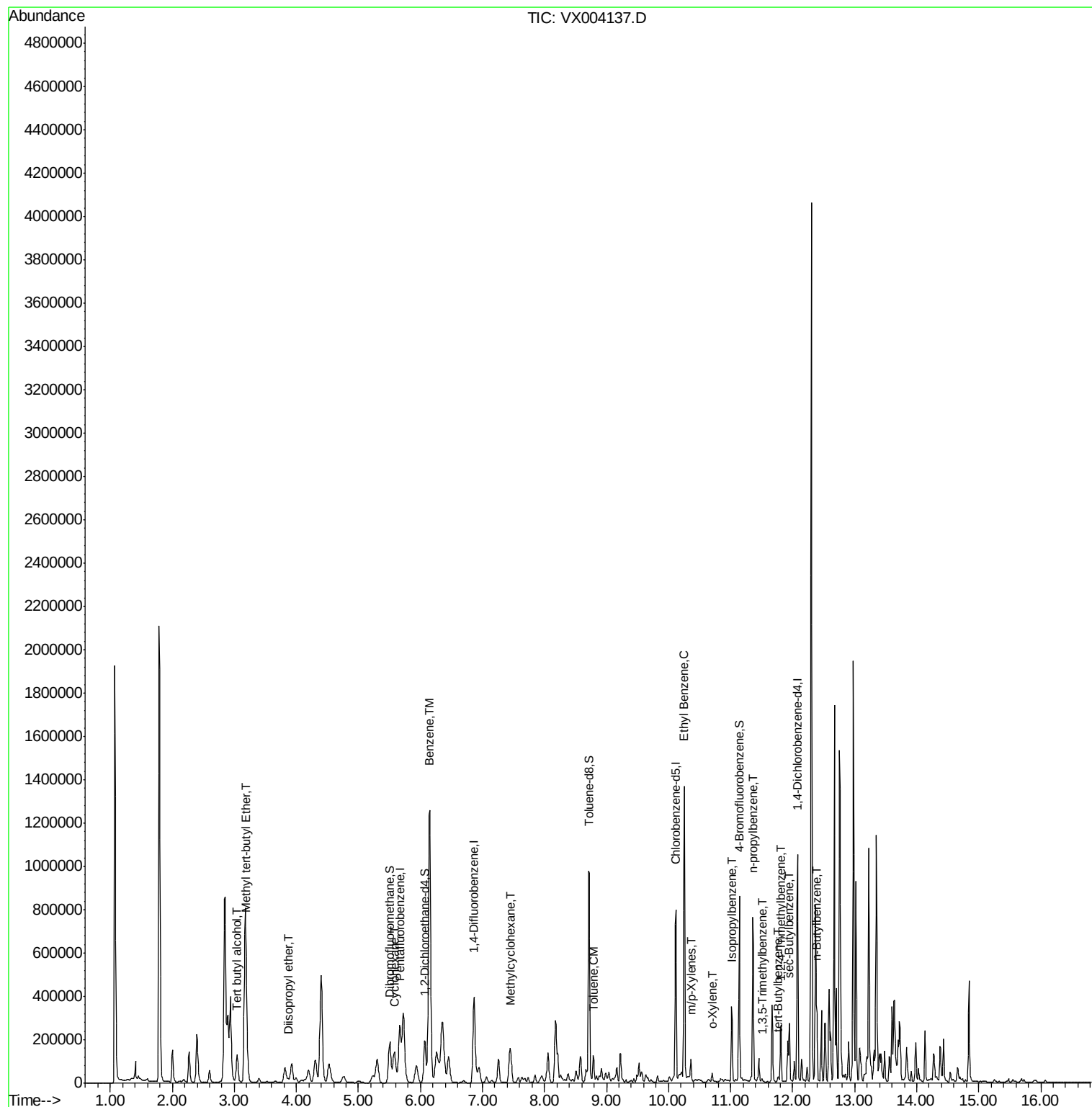
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX081718\
Data File : VX004137.D
Acq On : 17 Aug 2018 17:29
Operator : JC/MD
Sample : J4522-07
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 18 Sample Multiplier: 1

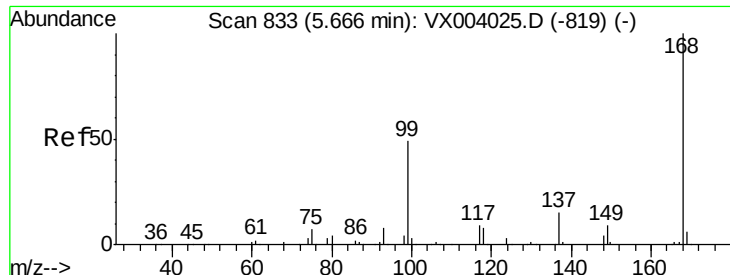
Instrument :
MSVOA_X
ClientSampleId :
MW-2

Manual Integrations
APPROVED

MMDadoda
8/20/2018 10:04:27 AM

Quant Time: Aug 31 03:19:51 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X081418W.M
Quant Title : SW846 8260
QLast Update : Tue Aug 14 13:27:25 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.00 min

Lab File: VX004137.D

Acq: 17 Aug 2018 17:29

Instrument :

MSVOA_X

ClientSampled :

MW-2

Tot Ion:168 Resp: 262525

Ion Ratio Lower Upper

168 100

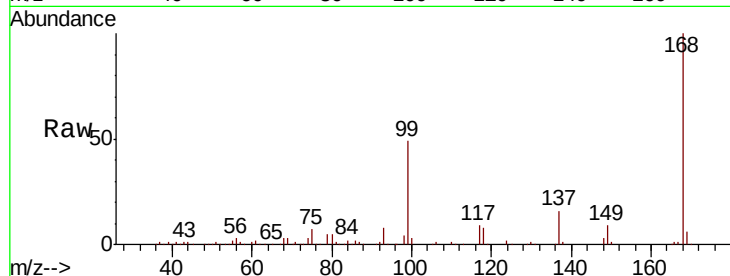
99 49.4 40.1 60.1

Manual Integrations

APPROVED

MMDadoda

8/20/2018 10:04:27 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

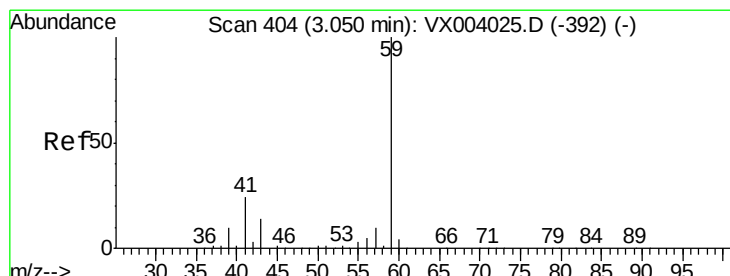
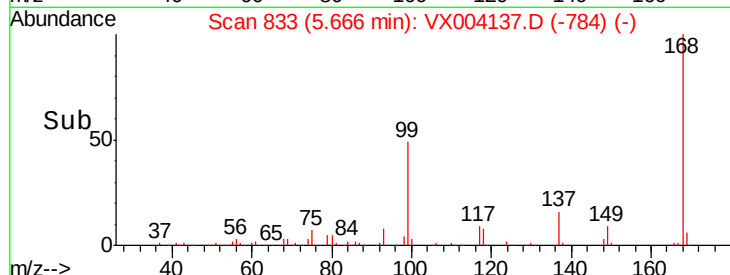
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#11

Tert butyl alcohol

Concen: 207.66 ug/l

RT: 3.04 min Scan# 403

Delta R.T. -0.01 min

Lab File: VX004137.D

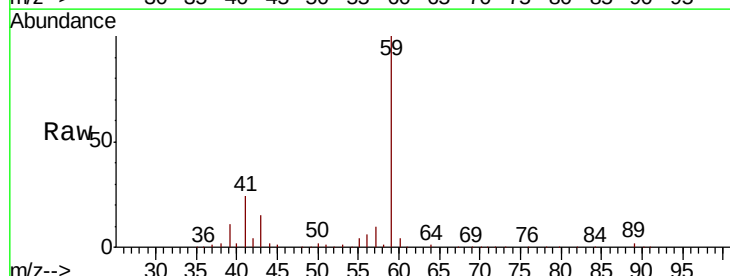
Acq: 17 Aug 2018 17:29

Tgt Ion: 59 Resp: 154679

Ion Ratio Lower Upper

59 100

57 0.0 8.1 12.1#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.04

250000

200000

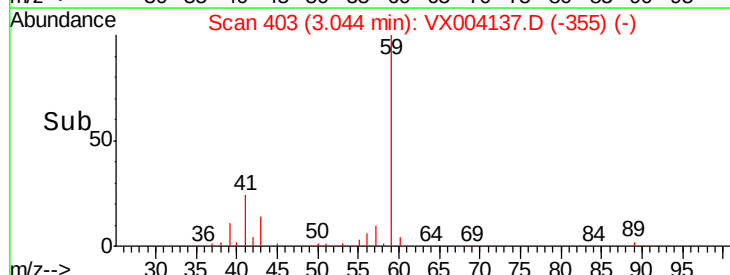
150000

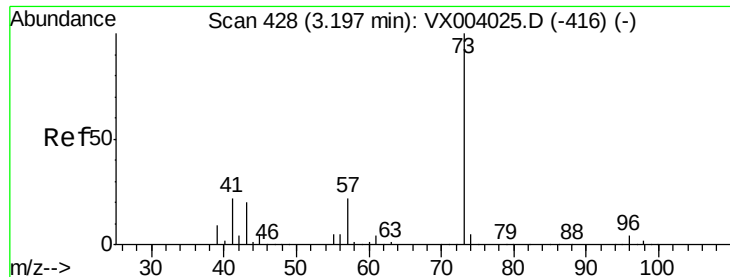
100000

50000

0

Time--> 2.90 3.00 3.10 3.20





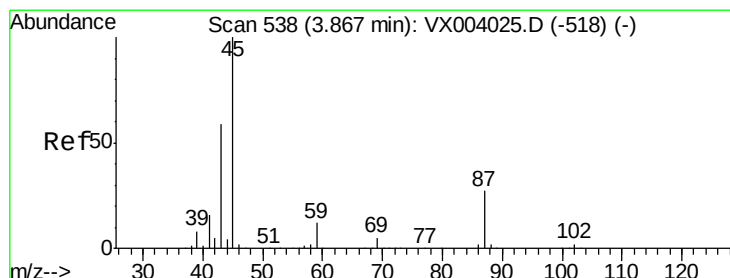
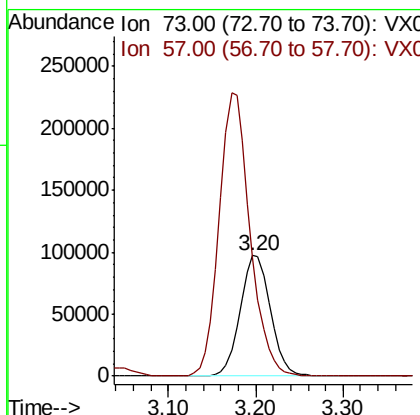
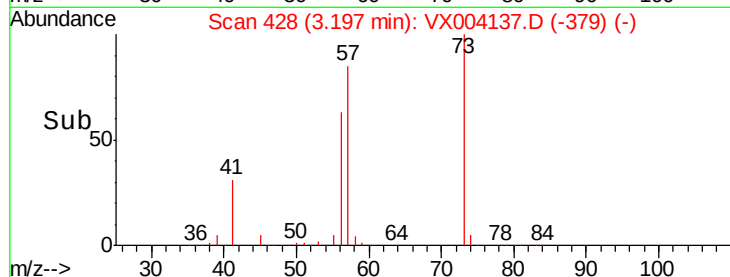
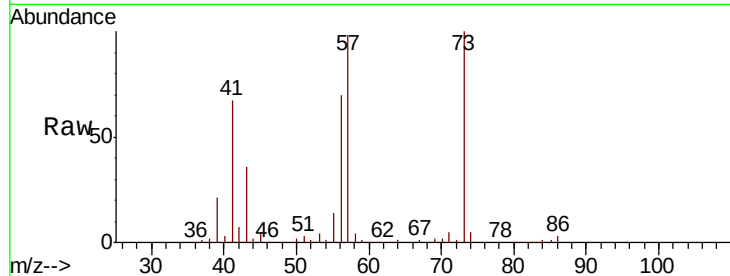
#19
Methyl tert-butyl Ether
Concen: 23.97 ug/l
RT: 3.20 min Scan# 428
Delta R.T. 0.00 min
Lab File: VX004137.D
Acq: 17 Aug 2018 17:29

Instrument :
MSVOA_X
ClientSampled :
MW-2

Tot Ion: 73 Resp: 233240
Ion Ratio Lower Upper
73 100
57 97.4 18.0 27.0#

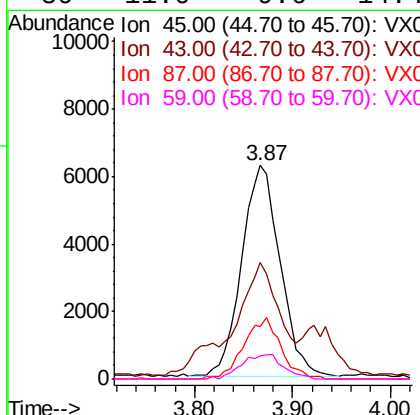
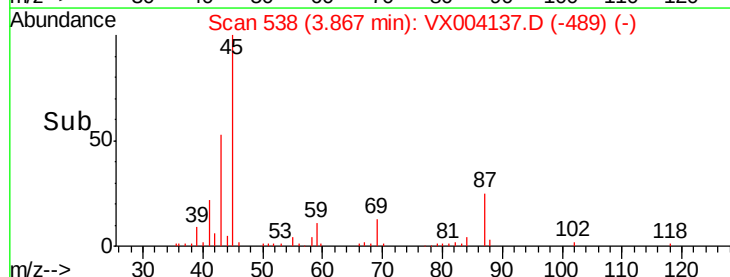
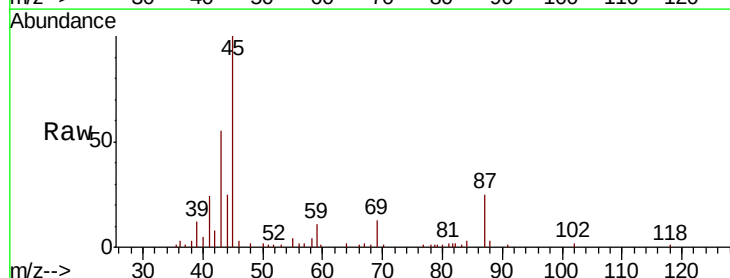
Manual Integrations
APPROVED

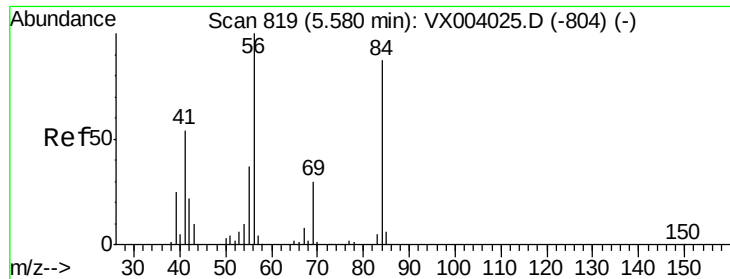
MMDadoda
8/20/2018 10:04:27 AM



#22
Diisopropyl ether
Concen: 1.66 ug/l
RT: 3.87 min Scan# 538
Delta R.T. 0.00 min
Lab File: VX004137.D
Acq: 17 Aug 2018 17:29

Tgt Ion: 45 Resp: 17138
Ion Ratio Lower Upper
45 100
43 47.1 45.3 67.9
87 25.0 22.7 34.1
59 11.0 9.6 14.4





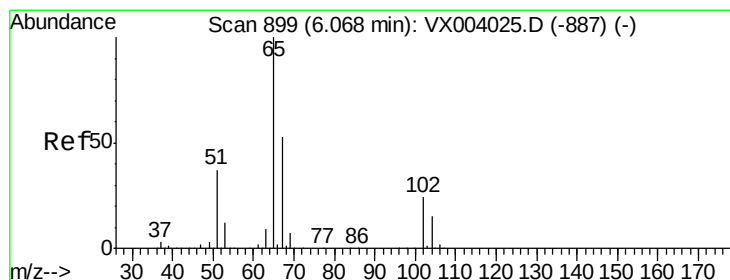
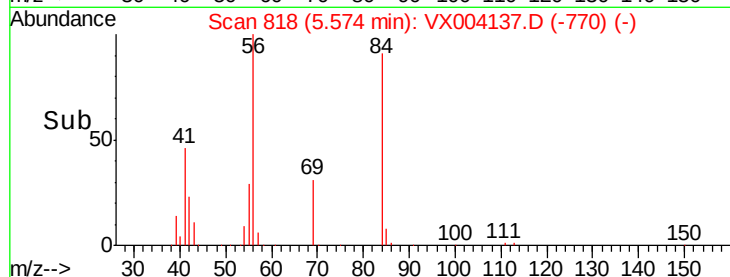
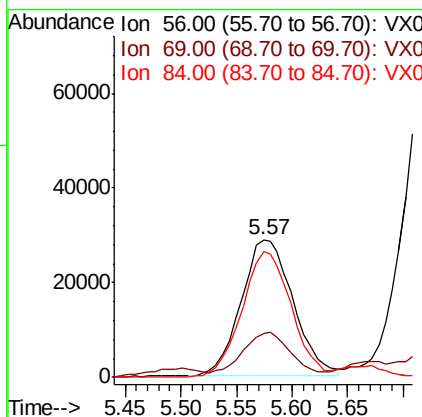
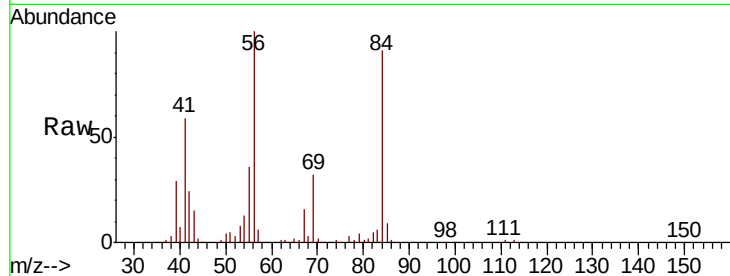
#31
Cyclohexane
Concen: 18.19 ug/l
RT: 5.57 min Scan# 818
Delta R.T. -0.01 min
Lab File: VX004137.D
Acq: 17 Aug 2018 17:29

Instrument :
MSVOA_X
ClientSampleId :
MW-2

Tot Ion	Ratio	Lower	Upper
56	100		
69	26.4	24.9	37.3
84	91.7	71.7	107.5

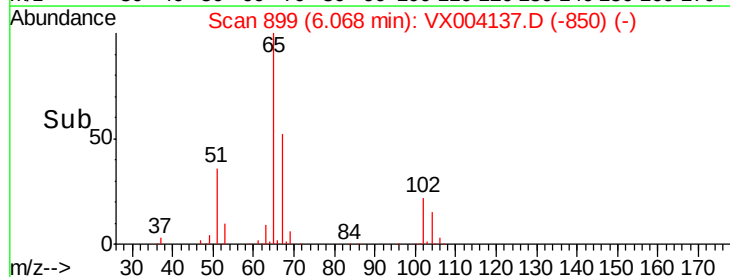
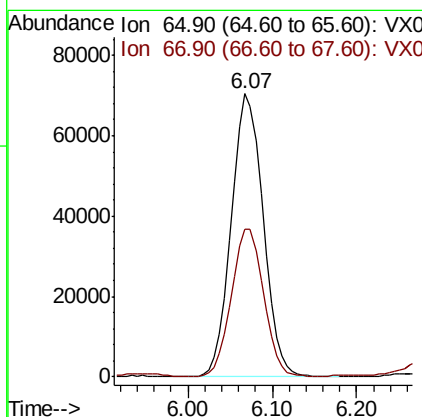
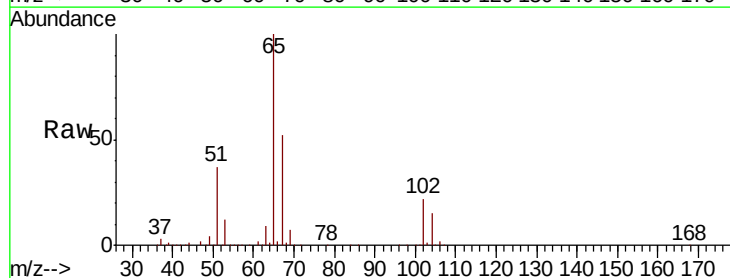
Manual Integrations
APPROVED

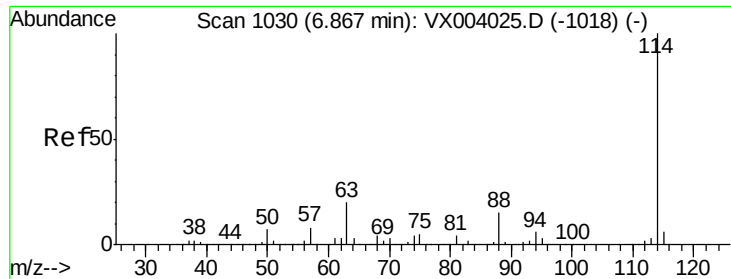
MMDadoda
8/20/2018 10:04:27 AM



#33
1,2-Dichloroethane-d4
Concen: 48.91 ug/l
RT: 6.07 min Scan# 899
Delta R.T. 0.00 min
Lab File: VX004137.D
Acq: 17 Aug 2018 17:29

Tgt Ion	Ratio	Lower	Upper
65	100		
67	52.6	0.0	105.8





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.86 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VX004137.D

Acq: 17 Aug 2018 17:29

Instrument :

MSVOA_X

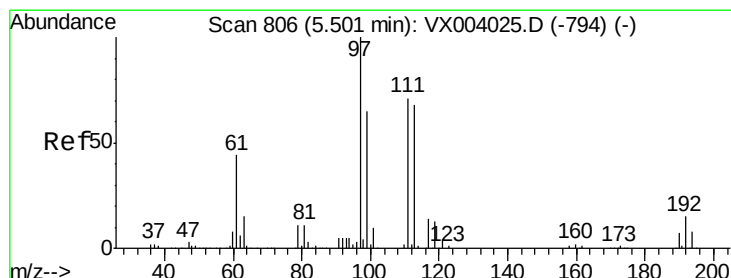
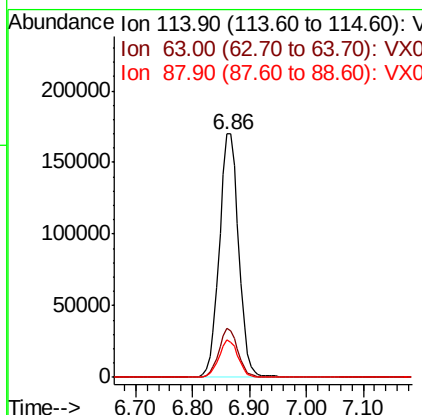
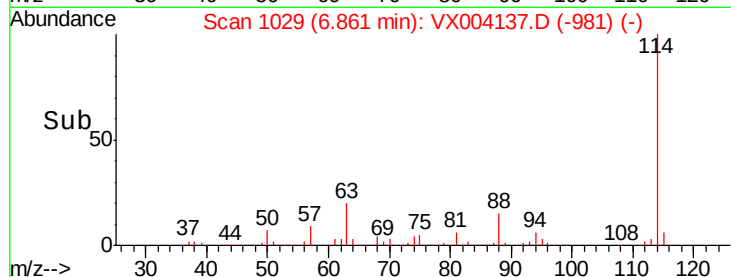
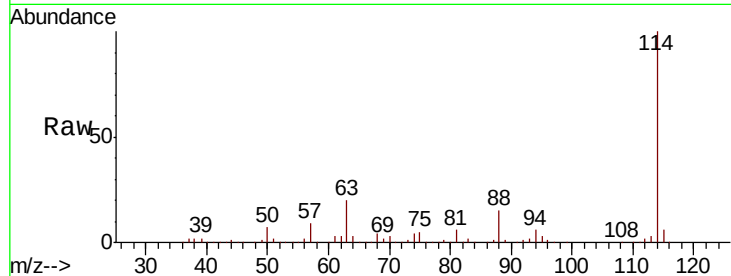
ClientSampled :

MW-2

Tot Ion:	114	Resp:	400048
Ion Ratio	Lower	Upper	
114	100		
63	20.0	0.0	39.0
88	15.3	0.0	32.0

Manual Integrations
APPROVED

MMDadoda
8/20/2018 10:04:27 AM



#35

Dibromofluoromethane

Concen: 51.47 ug/l

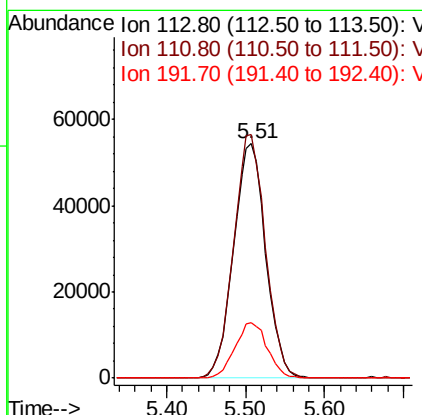
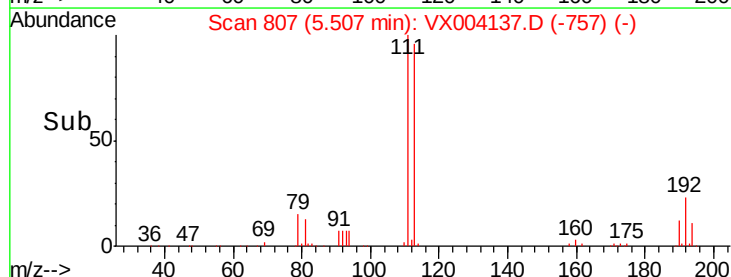
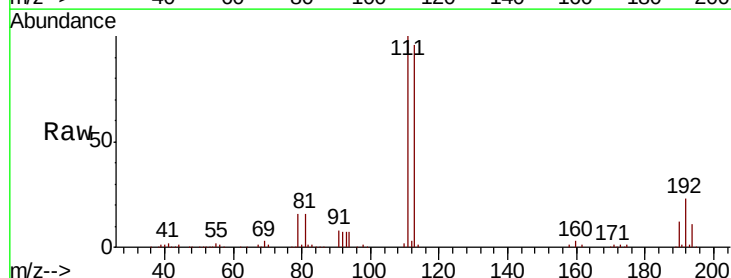
RT: 5.51 min Scan# 807

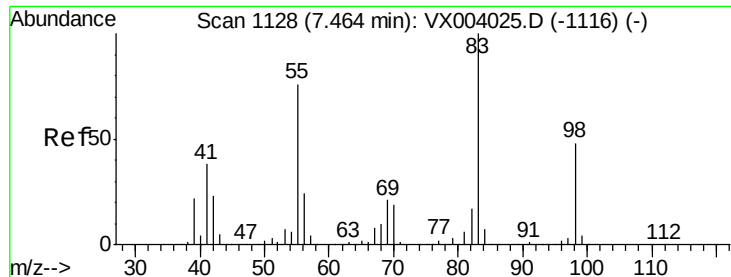
Delta R.T. 0.01 min

Lab File: VX004137.D

Acq: 17 Aug 2018 17:29

Tgt Ion:	113	Resp:	154110
Ion Ratio	Lower	Upper	
113	100		
111	102.9	82.0	123.0
192	23.8	19.0	28.4





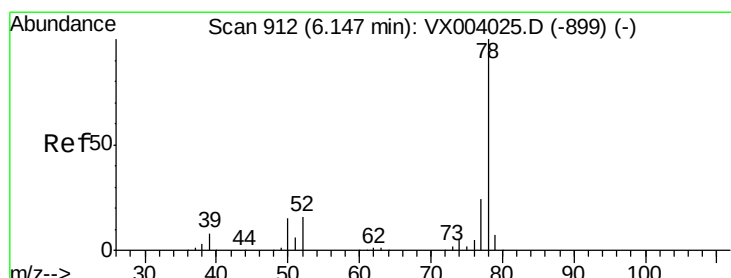
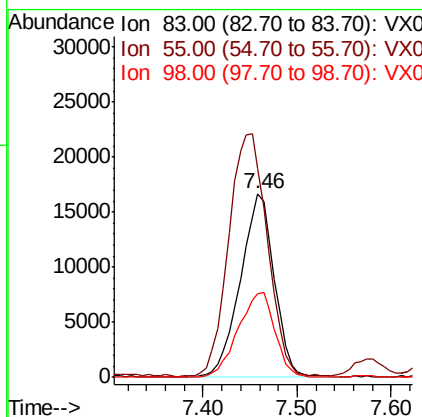
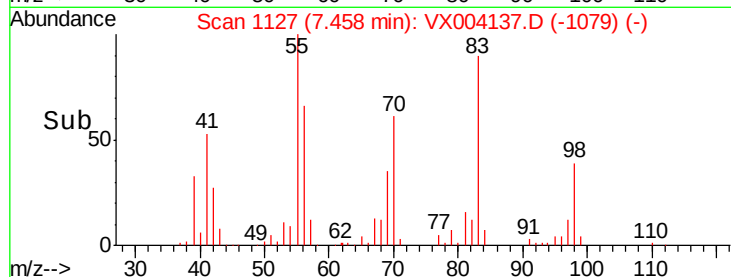
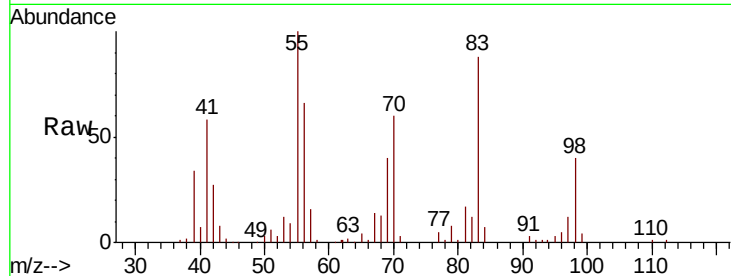
#39
Methylvlcyclohexane
Concen: 8.16 ug/l
RT: 7.46 min Scan# 1127
Delta R.T. -0.01 min
Lab File: VX004137.D
Acq: 17 Aug 2018 17:29

Instrument :
MSVOA_X
ClientSampled :
MW-2

Tot Ion	Ratio	Lower	Upper
83	100		
55	113.5	61.0	91.6#
98	45.8	38.6	57.8

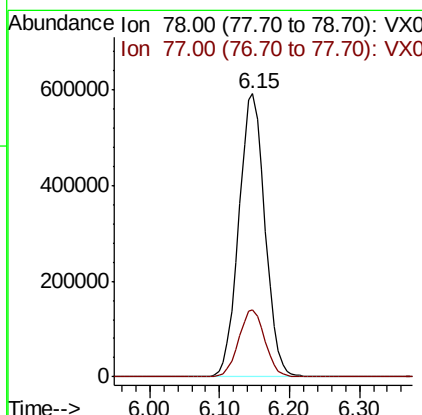
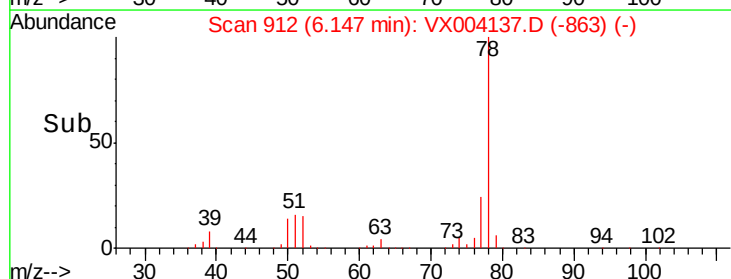
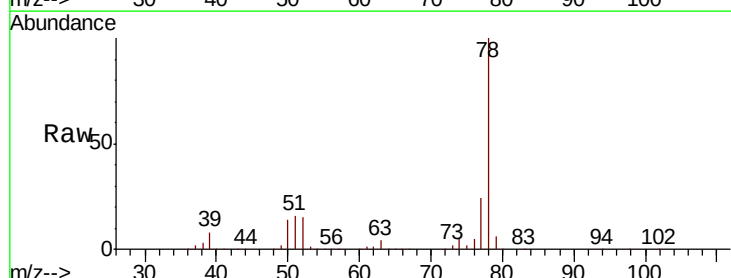
Manual Integrations
APPROVED

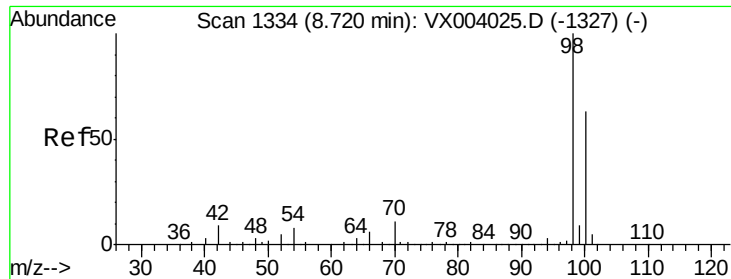
MMDadoda
8/20/2018 10:04:27 AM



#40
Benzene
Concen: 112.52 ug/l
RT: 6.15 min Scan# 912
Delta R.T. 0.00 min
Lab File: VX004137.D
Acq: 17 Aug 2018 17:29

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.9	19.0	28.4





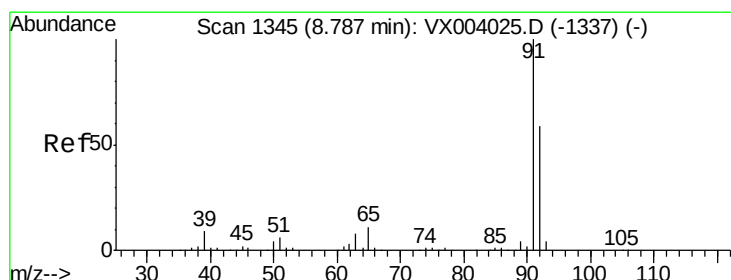
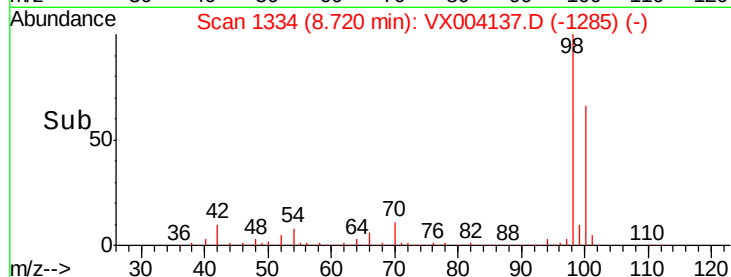
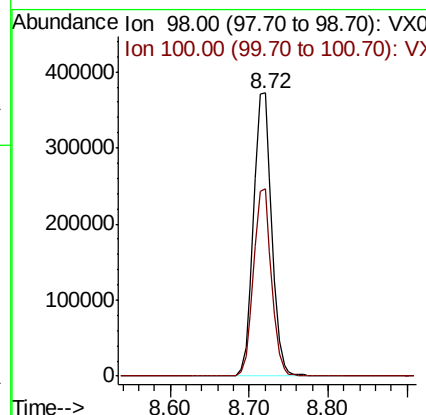
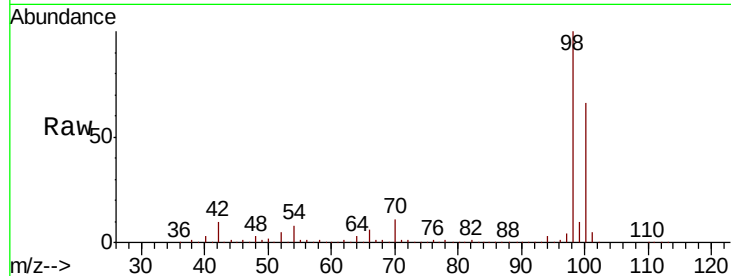
#50
Toluene-d8
Concen: 49.37 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX004137.D
Acq: 17 Aug 2018 17:29

Instrument :
MSVOA_X
ClientSampleId :
MW-2

Tot Ion: 98 Resp: 599249
Ion Ratio Lower Upper
98 100
100 65.2 53.3 79.9

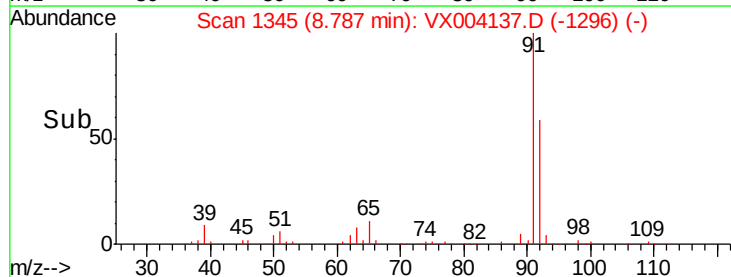
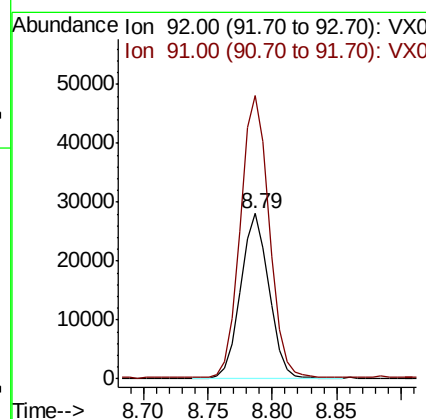
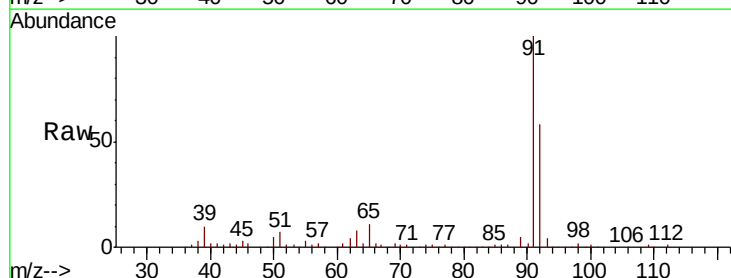
Manual Integrations
APPROVED

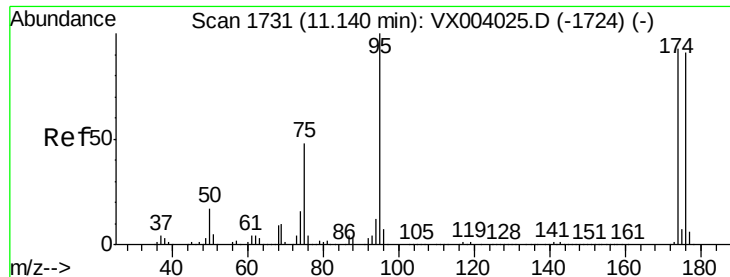
MMDadoda
8/20/2018 10:04:27 AM



#52
Toluene
Concen: 4.99 ug/l
RT: 8.79 min Scan# 1345
Delta R.T. 0.00 min
Lab File: VX004137.D
Acq: 17 Aug 2018 17:29

Tgt Ion: 92 Resp: 43146
Ion Ratio Lower Upper
92 100
91 171.7 136.1 204.1





#62

4-Bromofluorobenzene

Concen: 49.55 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX004137.D

Acq: 17 Aug 2018 17:29

Instrument :

MSVOA_X

ClientSampled :

MW-2

Tot Ion: 95 Resp: 218156
Ion Ratio Lower Upper

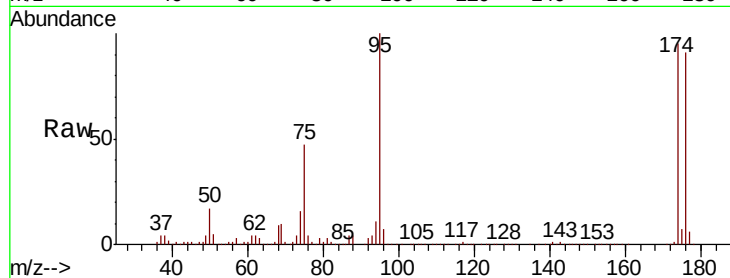
95 100

174 89.6 0.0 182.8

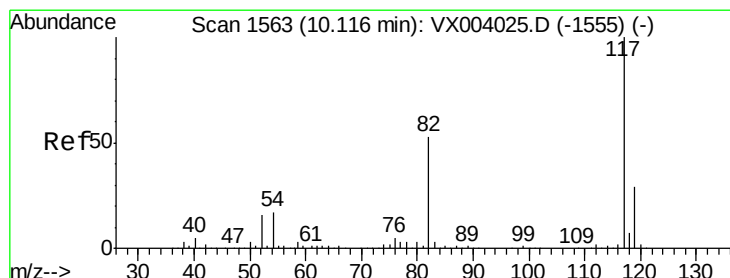
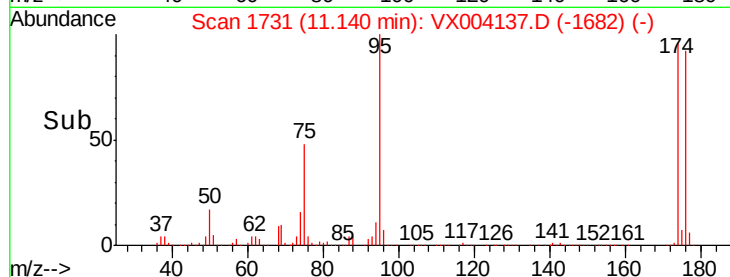
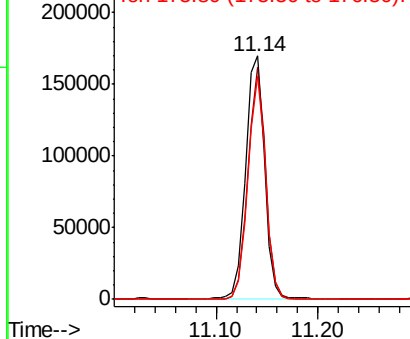
176 86.4 0.0 179.0

Manual Integrations
APPROVED

MMDadoda
8/20/2018 10:04:27 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: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VX004137.D

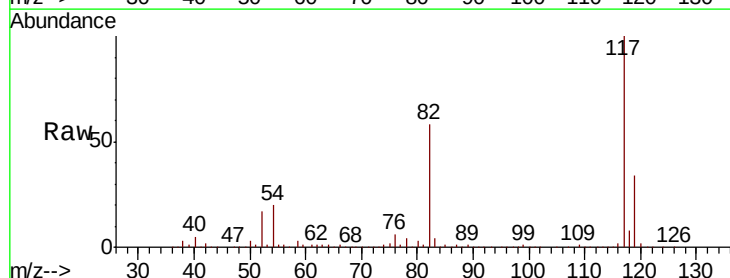
Acq: 17 Aug 2018 17:29

Tgt Ion: 117 Resp: 370576
Ion Ratio Lower Upper

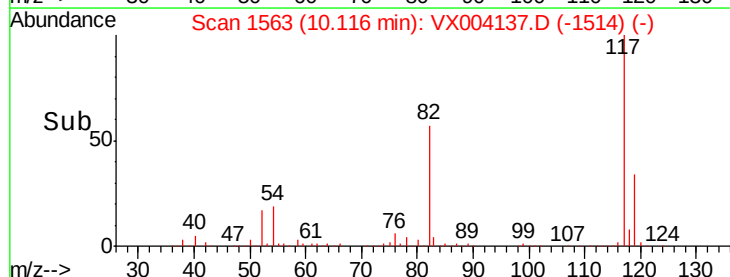
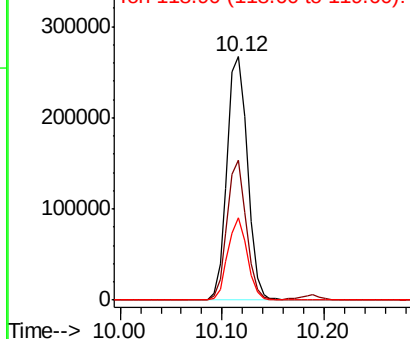
117 100

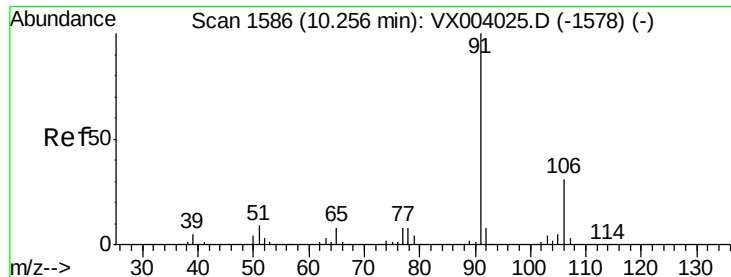
82 57.6 45.4 68.0

119 33.9 26.6 40.0



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: 52.86 ug/l

RT: 10.25 min Scan# 1585

Delta R.T. -0.01 min

Lab File: VX004137.D

Acq: 17 Aug 2018 17:29

Instrument :

MSVOA_X

ClientSampled :

MW-2

Tot Ion: 91 Resp: 801269

Ion Ratio Lower Upper

91 100

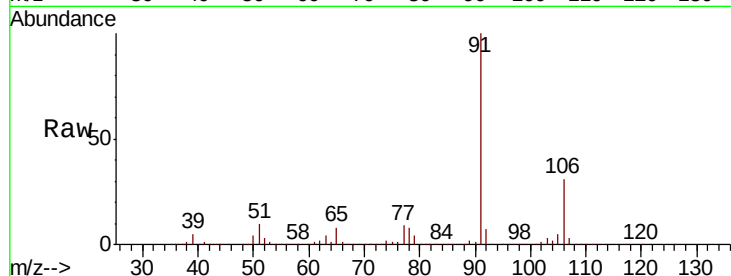
106 31.3 25.9 38.9

Manual Integrations

APPROVED

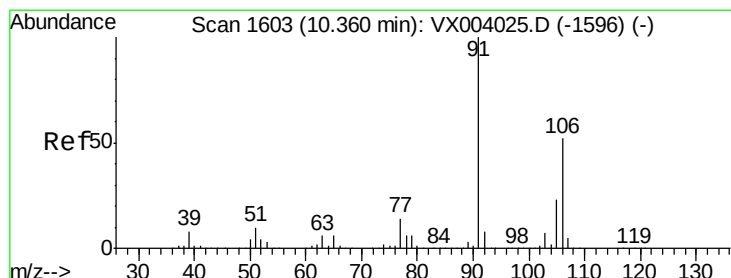
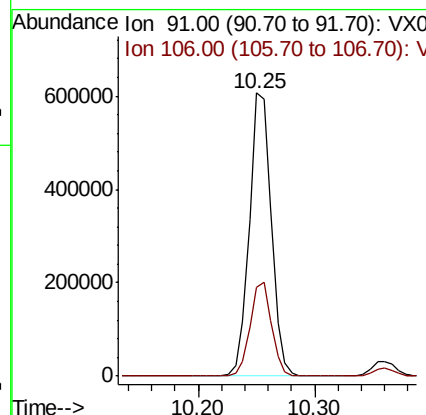
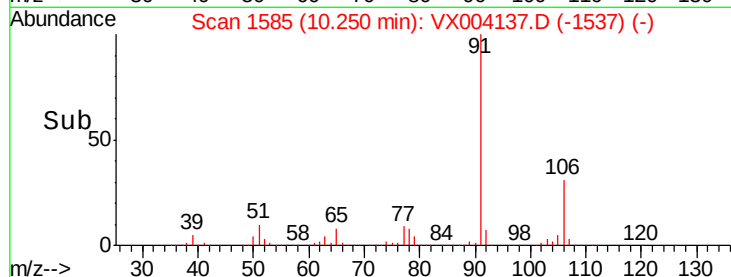
MMDadoda

8/20/2018 10:04:27 AM



Abundance Ion 91.00 (90.70 to 91.70): VX004025.D (-1578) (-)

Ion 106.00 (105.70 to 106.70): VX004025.D (-1578) (-)



#68

m/p-Xylenes

Concen: 3.89 ug/l

RT: 10.36 min Scan# 1603

Delta R.T. 0.00 min

Lab File: VX004137.D

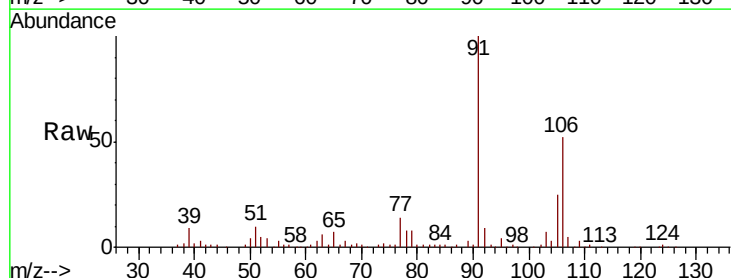
Acq: 17 Aug 2018 17:29

Tgt Ion: 106 Resp: 23076

Ion Ratio Lower Upper

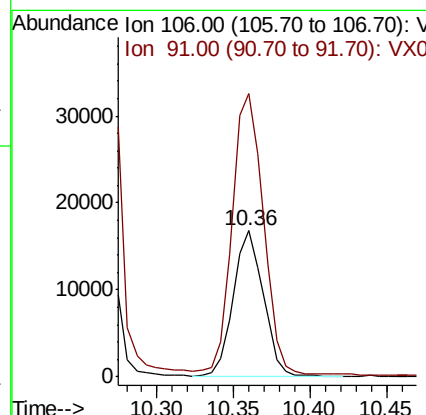
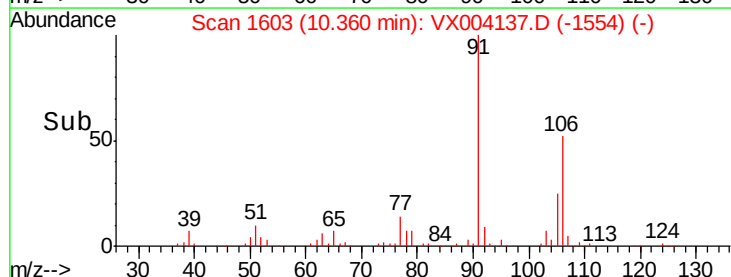
106 100

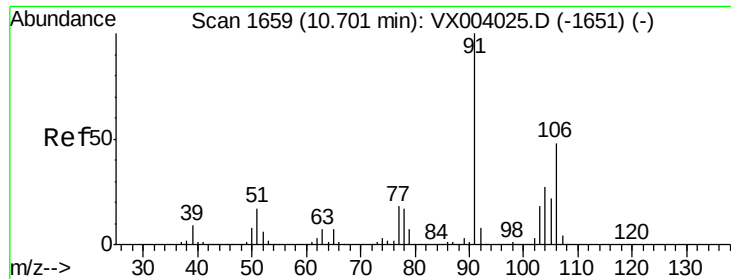
91 195.6 162.3 243.5



Abundance Ion 106.00 (105.70 to 106.70): VX004025.D (-1596) (-)

Ion 91.00 (90.70 to 91.70): VX004025.D (-1596) (-)





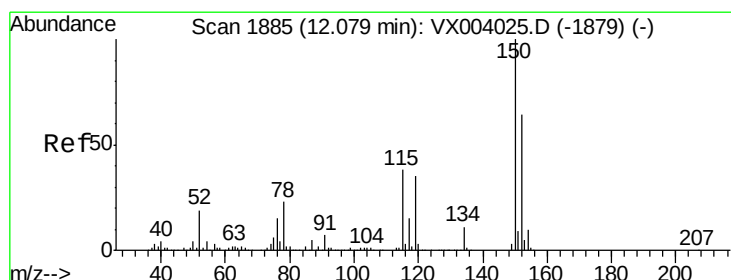
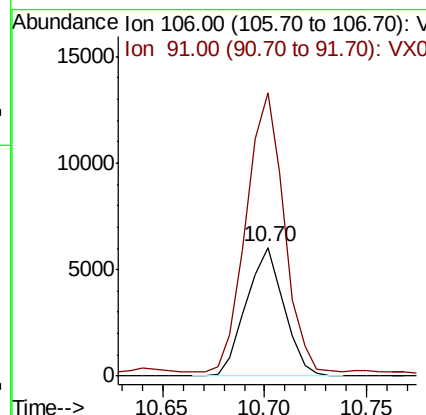
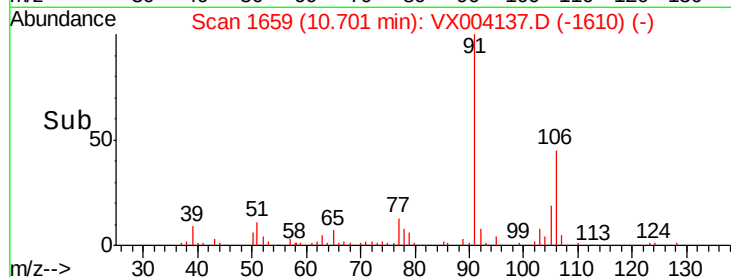
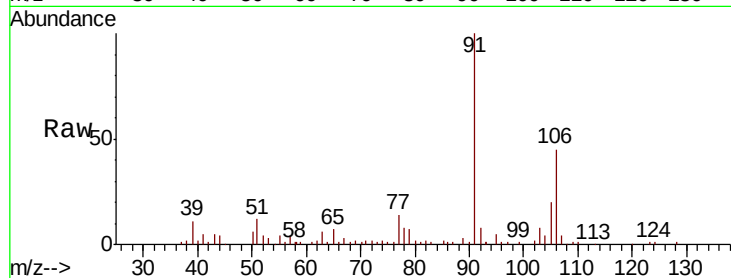
#69
o-Xylene
Concen: 1.37 ug/l
RT: 10.70 min Scan# 1659
Delta R.T. 0.00 min
Lab File: VX004137.D
Acq: 17 Aug 2018 17:29

Instrument :
MSVOA_X
ClientSampled :
MW-2

Tot Ion:106 Resp: 7786
Ion Ratio Lower Upper
106 100
91 222.3 101.9 305.7

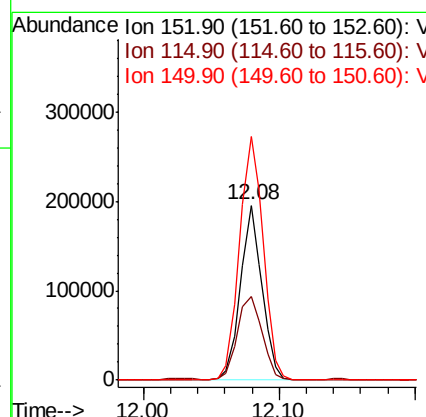
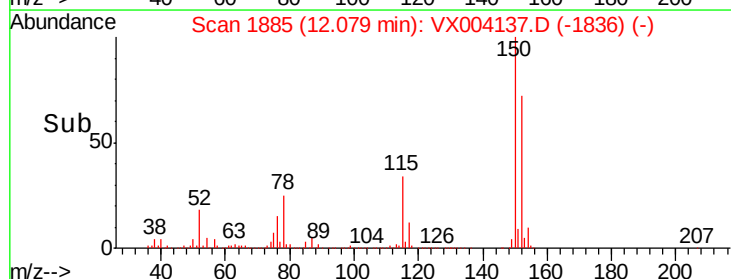
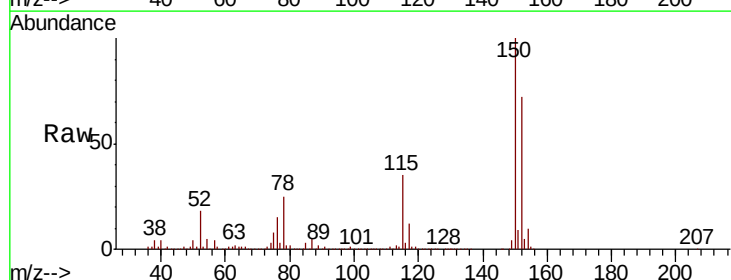
Manual Integrations
APPROVED

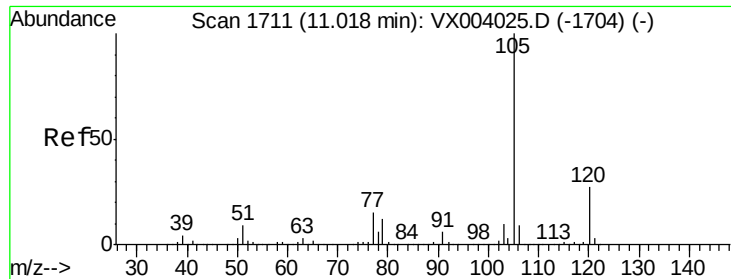
MMDadoda
8/20/2018 10:04:27 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1885
Delta R.T. 0.00 min
Lab File: VX004137.D
Acq: 17 Aug 2018 17:29

Tgt Ion:152 Resp: 216006
Ion Ratio Lower Upper
152 100
115 54.9 39.1 117.3
150 153.3 0.0 349.2





#73

Isopropylbenzene

Concen: 11.27 ug/l

RT: 11.02 min Scan# 1711

Delta R.T. 0.00 min

Lab File: VX004137.D

Acq: 17 Aug 2018 17:29

Instrument :

MSVOA_X

ClientSampled :

MW-2

Tot Ion: 105 Resp: 164678

Ion Ratio Lower Upper

105 100

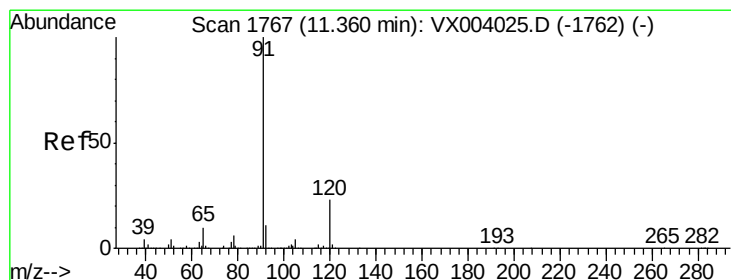
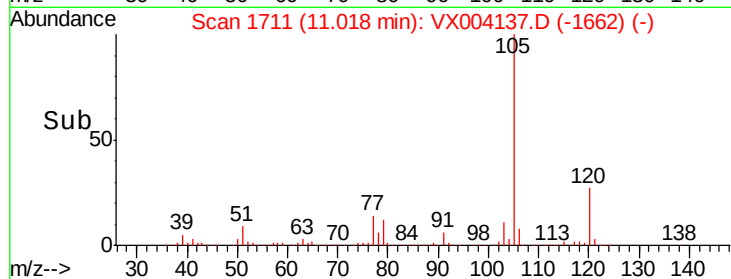
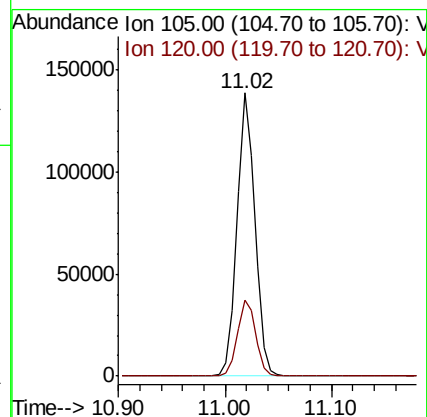
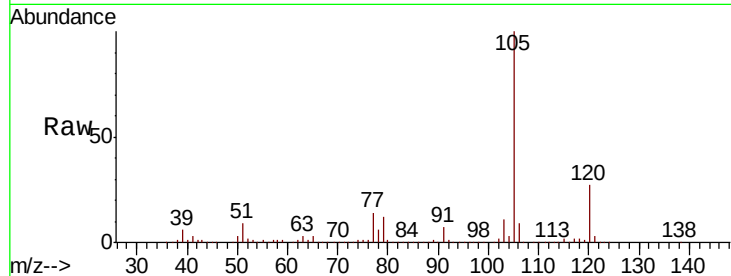
120 27.6 12.6 37.8

Manual Integrations

APPROVED

MMDadoda

8/20/2018 10:04:27 AM



#78

n-propylbenzene

Concen: 27.04 ug/l

RT: 11.36 min Scan# 1767

Delta R.T. 0.00 min

Lab File: VX004137.D

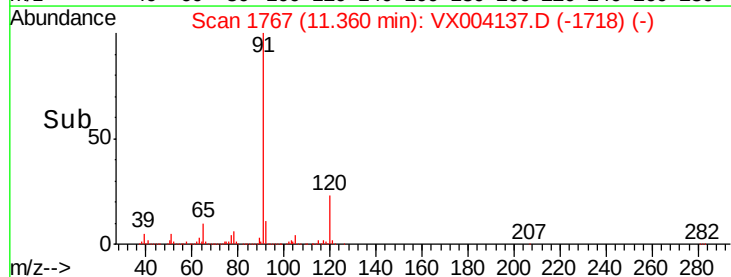
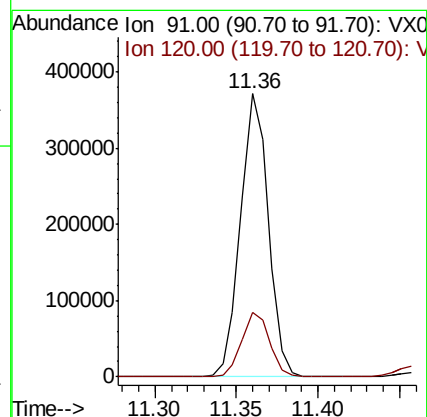
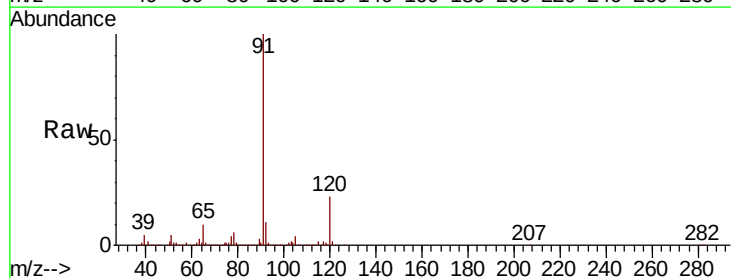
Acq: 17 Aug 2018 17:29

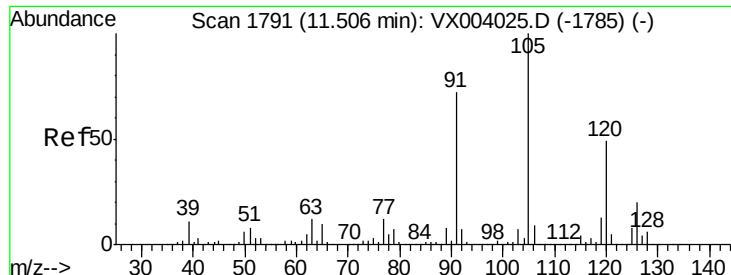
Tgt Ion: 91 Resp: 442330

Ion Ratio Lower Upper

91 100

120 23.0 11.9 35.5





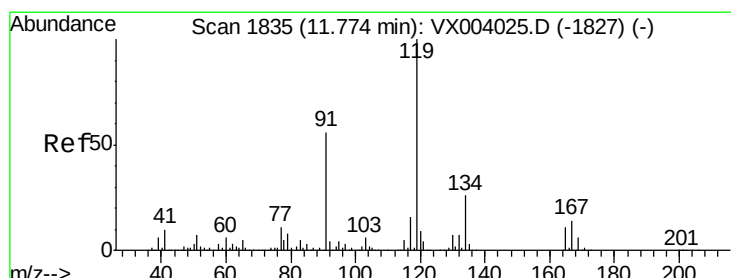
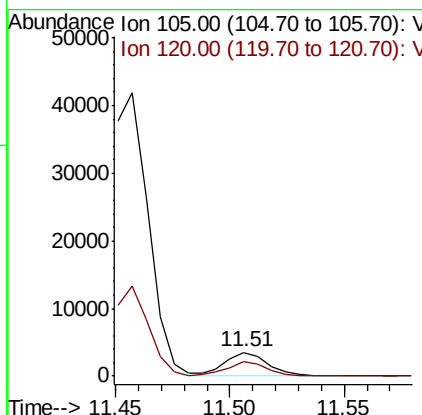
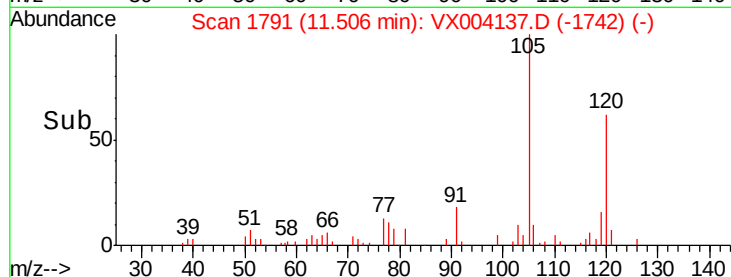
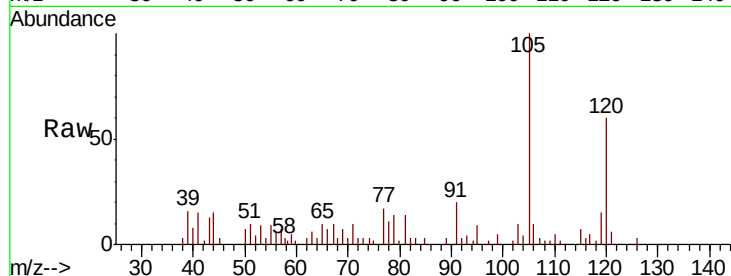
#80
1,3,5-Trimethylbenzene
Concen: 0.40 ug/l m
RT: 11.51 min Scan# 1791
Delta R.T. 0.00 min
Lab File: VX004137.D
Acq: 17 Aug 2018 17:29

Instrument :
MSVOA_X
ClientSampleId :
MW-2

Tot Ion:105 Resp: 4796
Ion Ratio Lower Upper
105 100
120 348.5 25.4 76.2#

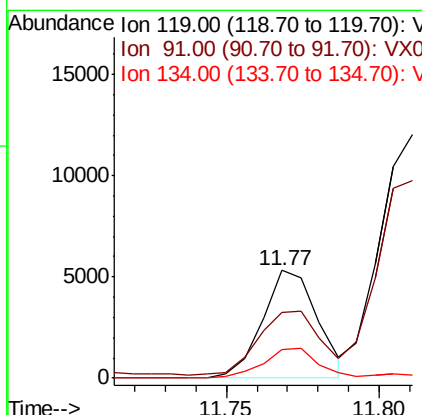
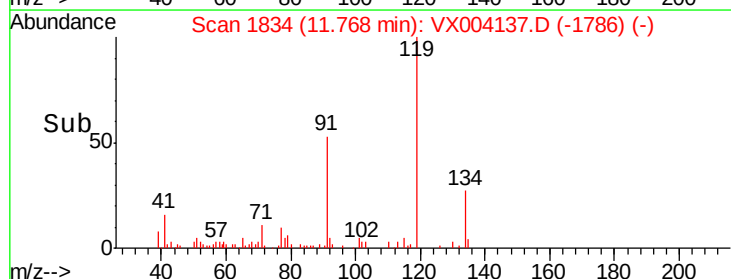
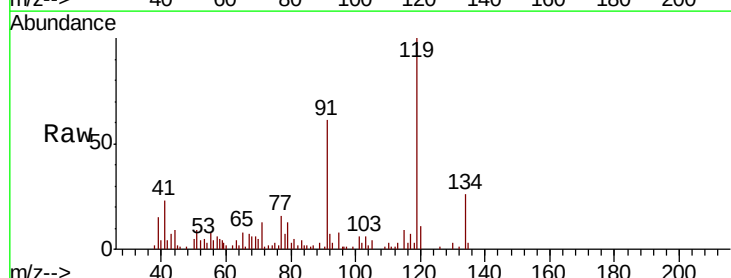
Manual Integrations
APPROVED

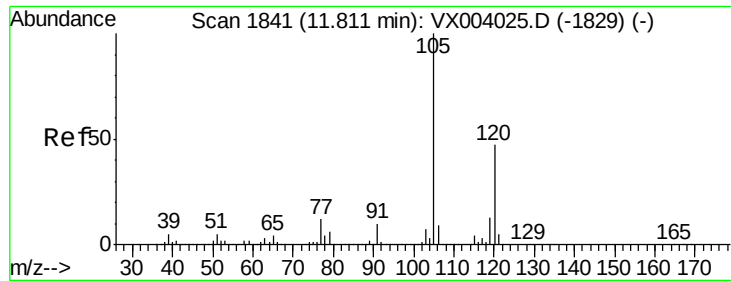
MMDadoda
8/20/2018 10:04:27 AM



#83
tert-Butylbenzene
Concen: 0.55 ug/l
RT: 11.77 min Scan# 1834
Delta R.T. -0.01 min
Lab File: VX004137.D
Acq: 17 Aug 2018 17:29

Tgt Ion:119 Resp: 6666
Ion Ratio Lower Upper
119 100
91 66.5 26.9 80.7
134 28.2 12.0 36.0





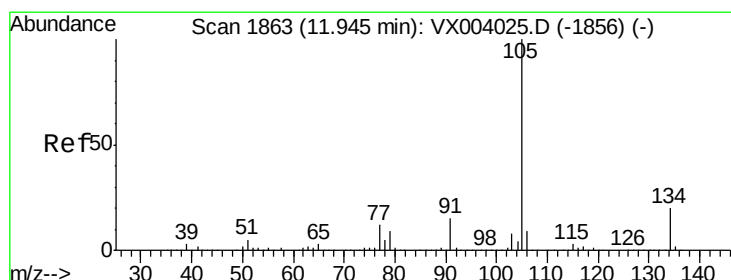
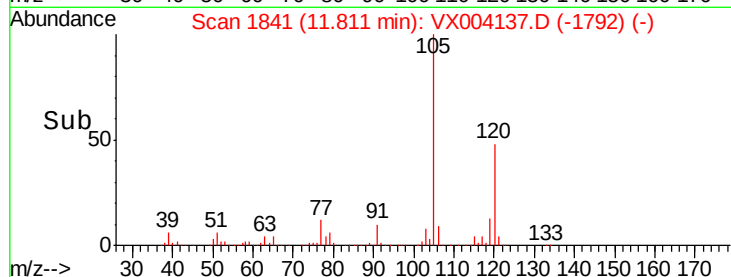
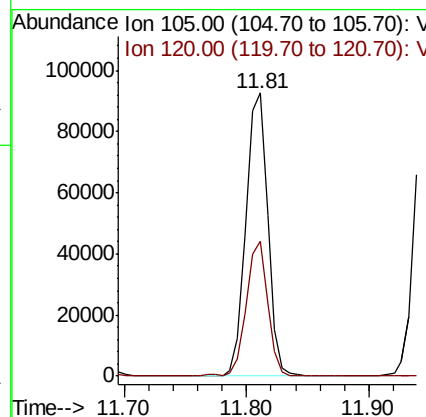
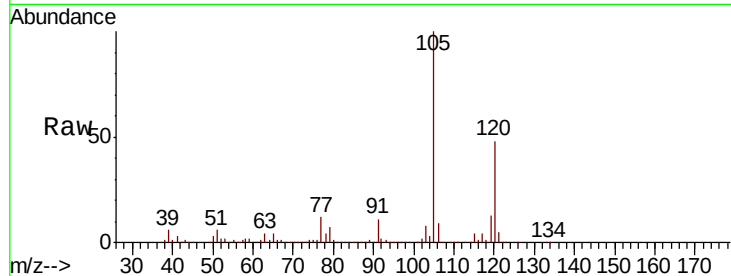
#84
 1,2,4-Trimethylbenzene
 Concen: 9.20 ug/l
 RT: 11.81 min Scan# 1841
 Delta R.T. 0.00 min
 Lab File: VX004137.D
 Acq: 17 Aug 2018 17:29

Instrument :
 MSVOA_X
 ClientSampled :
 MW-2

Tot Ion:105 Resp: 114047
 Ion Ratio Lower Upper
 105 100
 120 47.2 23.1 69.2

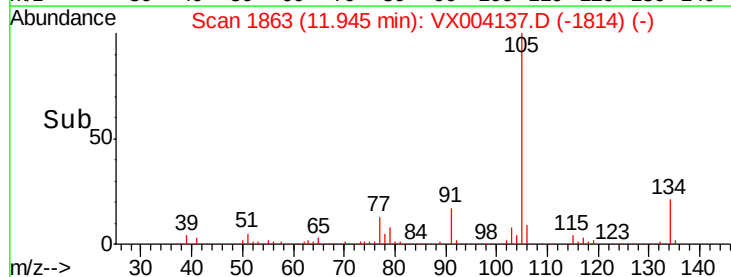
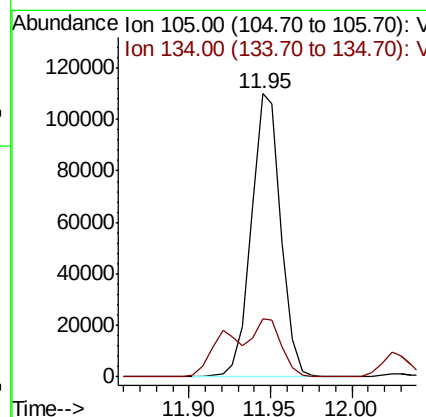
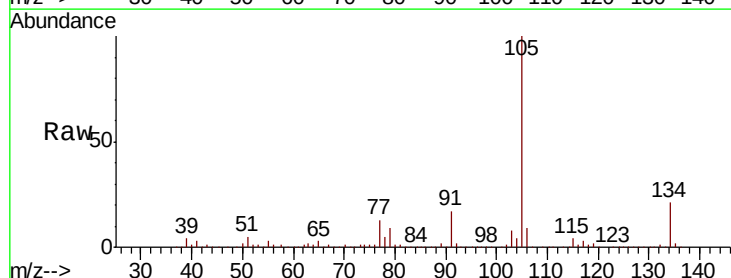
Manual Integrations
 APPROVED

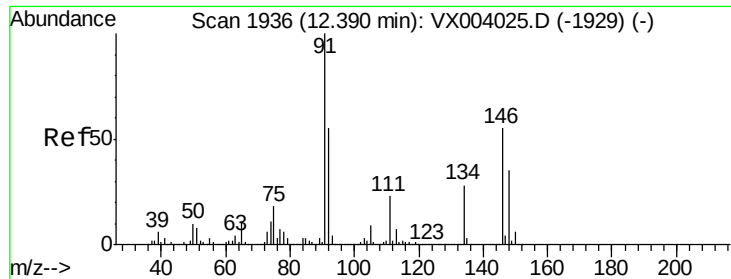
MMDadoda
 8/20/2018 10:04:27 AM



#85
 sec-Butylbenzene
 Concen: 9.74 ug/l
 RT: 11.95 min Scan# 1863
 Delta R.T. 0.00 min
 Lab File: VX004137.D
 Acq: 17 Aug 2018 17:29

Tgt Ion:105 Resp: 137594
 Ion Ratio Lower Upper
 105 100
 134 20.2 10.3 30.9





#89
 n-Butylbenzene
 Concen: 11.06 ug/l m
 RT: 12.39 min Scan# 1936
 Delta R.T. 0.00 min
 Lab File: VX004137.D
 Acq: 17 Aug 2018 17:29

Instrument :
 MSVOA_X
 ClientSampled :
 MW-2

Tot Ion	Ratio	Lower	Upper
91	100		
92	67.1	27.1	81.3
134	124.9	13.6	40.7#

Manual Integrations
 APPROVED

MMDadoda
 8/20/2018 10:04:27 AM

