

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031319\
 Data File : VN054222.D
 Acq On : 13 Mar 2019 19:37
 Operator : JC/SP
 Sample : K1842-08DL 5X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PR-MW-01_030819DL

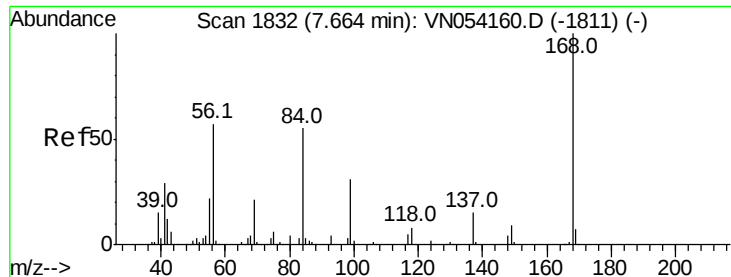
Manual Integrations
 APPROVED

MMDadoda
 3/14/2019 10:27:50 AM

Quant Time: Mar 14 07:53:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 13 03:33:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1382890	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2305712	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2403956	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	1202112	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	735222	50.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.12%	
35) Dibromofluoromethane	7.59	113	713363	47.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.94%	
50) Toluene-d8	10.09	98	2864913	52.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.32%	
62) 4-Bromofluorobenzene	12.40	95	1145333	59.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	119.20%	
Target Compounds						
					Qvalue	
31) Cyclohexane	7.66	56	38440	0.526	ug/l #	51
39) Methylcyclohexane	9.08	83	25157	0.963	ug/l	97
52) Toluene	10.16	92	101991	2.647	ug/l	98
67) Ethyl Benzene	11.51	91	3023186	34.551	ug/l	100
68) m/p-Xylenes	11.63	106	1788317	52.292	ug/l	99
69) o-Xylene	11.95	106	1226158	36.780	ug/l	99
73) Isopropylbenzene	12.25	105	372719	3.875	ug/l	99
78) n-propylbenzene	12.59	91	447789	4.291	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	1396598	17.458	ug/l	100
84) 1,2,4-Trimethylbenzene	13.04	105	4064483	51.788	ug/l	100
85) sec-Butylbenzene	13.17	105	63328m	0.663	ug/l	
86) p-Isopropyltoluene	13.29	119	53979m	0.644	ug/l	
89) n-Butylbenzene	13.61	91	40666m	0.639	ug/l	
95) Naphthalene	15.13	128	963563	20.477	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN054222.D

Acq: 13 Mar 2019 19:37

Instrument :

MSVOA_N

ClientSampleId :

PR-MW-01_030819DL

Tot Ion:168 Resp: 1382890

Ion Ratio Lower Upper

168 100

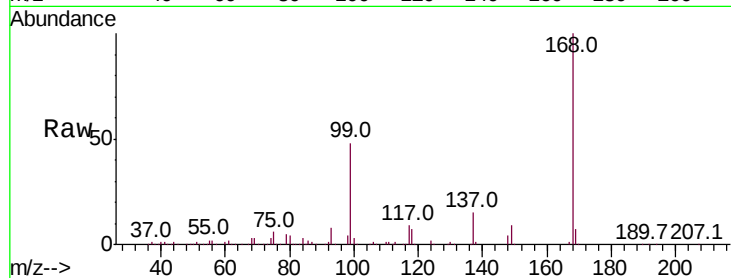
99 47.9 37.1 55.7

Manual Integrations

APPROVED

MMDadoda

3/14/2019 10:27:50 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

600000

500000

400000

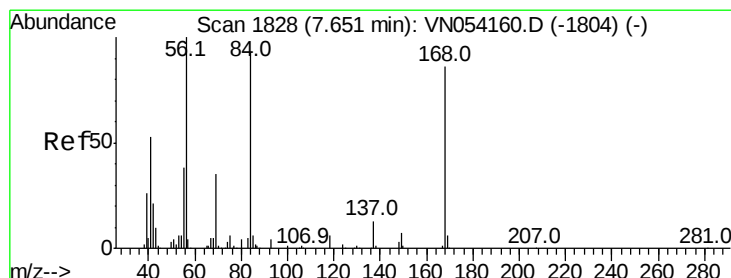
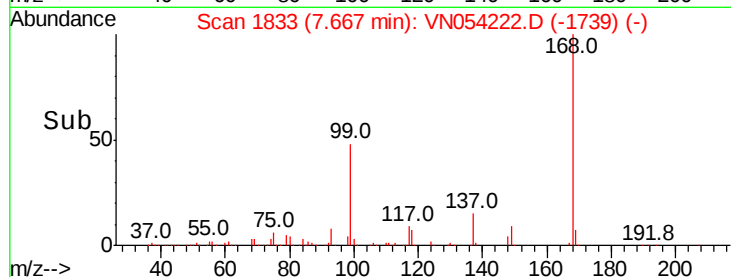
300000

200000

100000

0

Time-->



#31

Cyclohexane

Concen: 0.526 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN054222.D

Acq: 13 Mar 2019 19:37

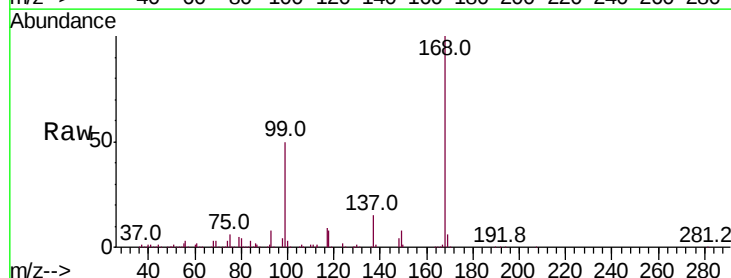
Tgt Ion: 56 Resp: 38440

Ion Ratio Lower Upper

56 100

69 117.4 27.8 41.6#

84 106.2 74.6 111.8



Abundance Ion 56.00 (55.70 to 56.70): VN

Ion 69.00 (68.70 to 69.70): VN

Ion 84.00 (83.70 to 84.70): VN

20000

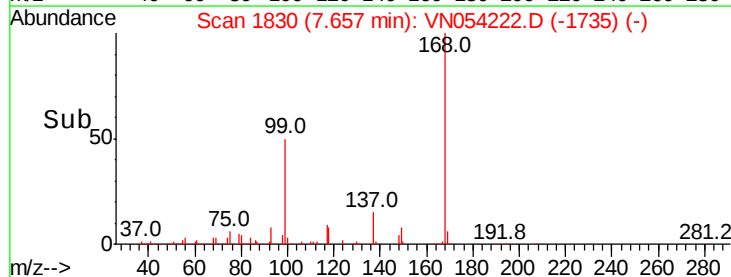
15000

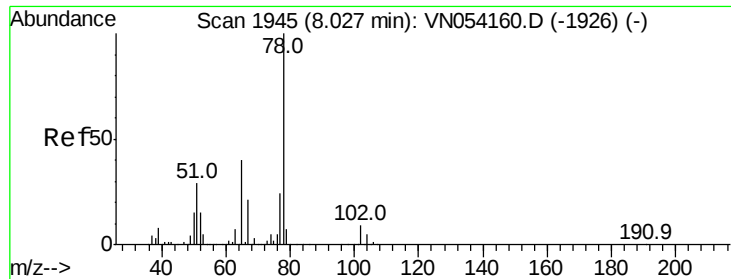
10000

5000

0

Time-->





#33

1,2-Dichloroethane-d4

Concen: 50.062 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN054222.D

Acq: 13 Mar 2019 19:37

Instrument :

MSVOA_N

ClientSampleId :

PR-MW-01_030819DL

Tot Ion: 65 Resp: 735222

Ion Ratio Lower Upper

65 100

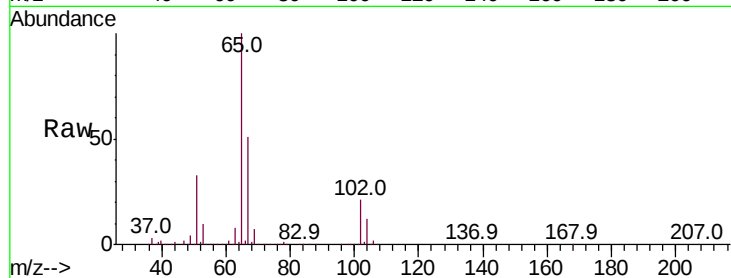
67 51.9 0.0 104.6

Manual Integrations

APPROVED

MMDadoda

3/14/2019 10:27:50 AM



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

8.03

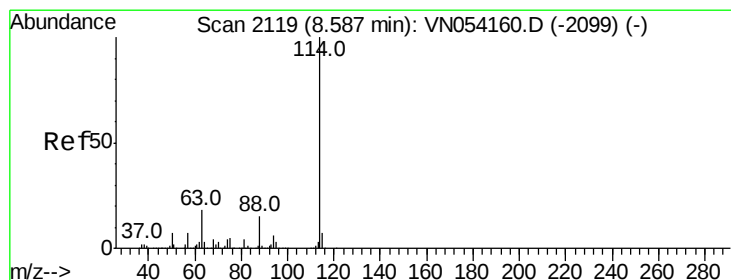
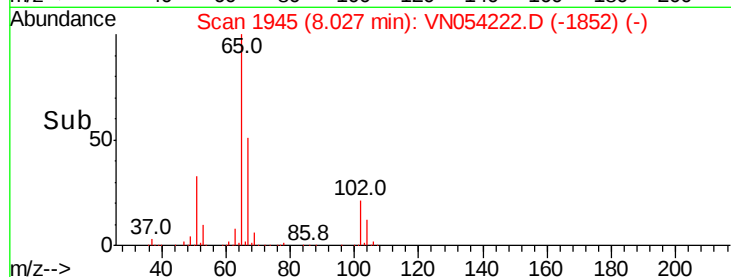
300000

200000

100000

0

Time--> 7.90 8.00 8.10



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN054222.D

Acq: 13 Mar 2019 19:37

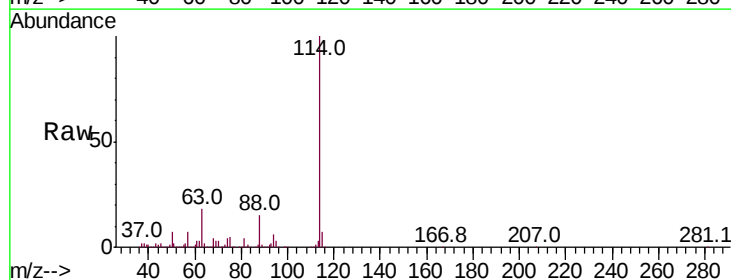
Tgt Ion:114 Resp: 2305712

Ion Ratio Lower Upper

114 100

63 17.7 0.0 35.2

88 14.9 0.0 30.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0

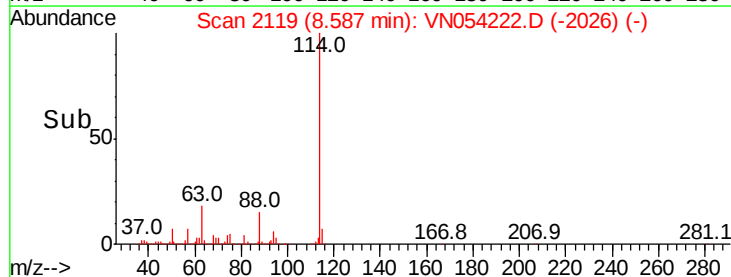
8.59

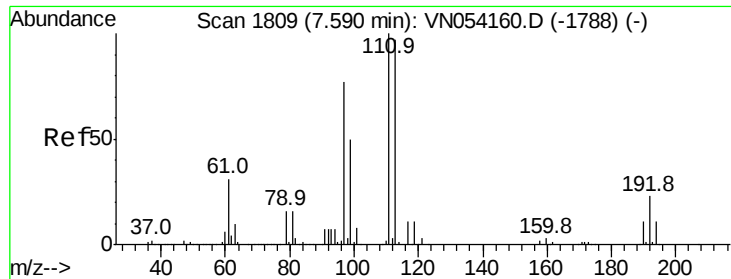
1000000

500000

0

Time--> 8.40 8.60 8.80





#35

Dibromofluoromethane

Concen: 47.970 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN054222.D

Acq: 13 Mar 2019 19:37

Instrument :

MSVOA_N

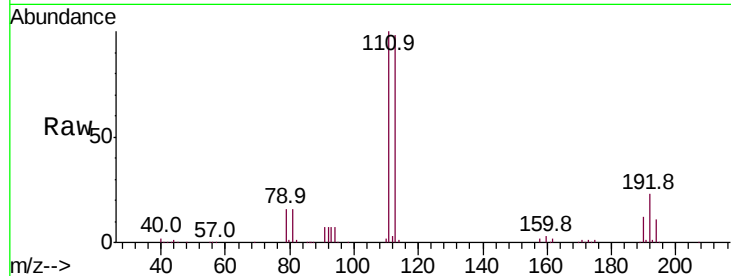
ClientSampleId :

PR-MW-01_030819DL

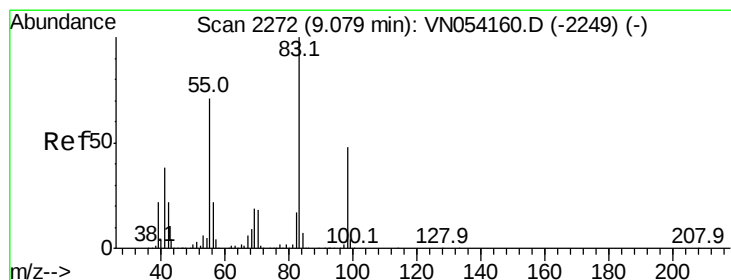
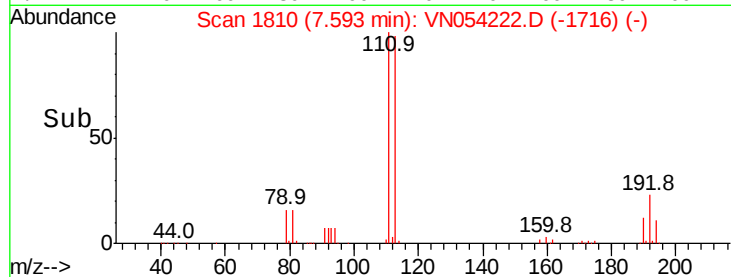
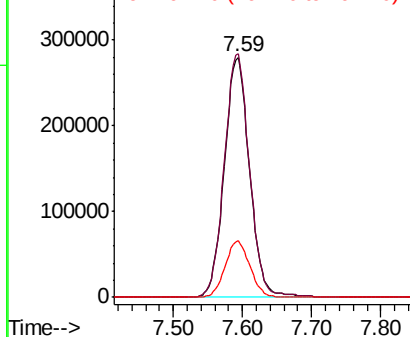
Tot Ion:	113	Resp:	713363
Ion Ratio	Lower	Upper	
113	100		
111	101.3	82.2	123.4
192	23.3	19.2	28.8

Manual Integrations
APPROVED

MMDadoda
3/14/2019 10:27:50 AM



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

Methylcyclohexane

Concen: 0.963 ug/l

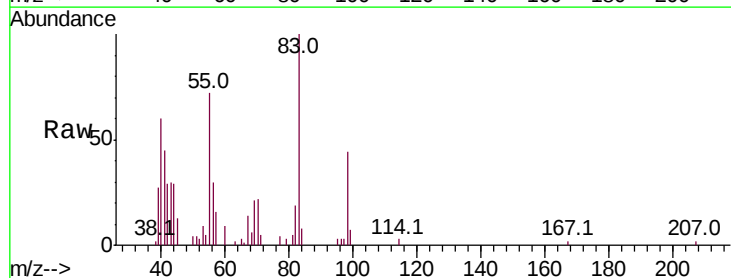
RT: 9.08 min Scan# 2271

Delta R.T. -0.00 min

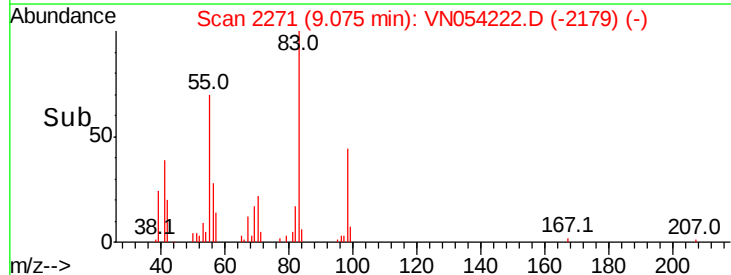
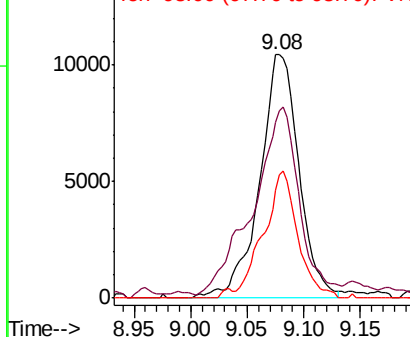
Lab File: VN054222.D

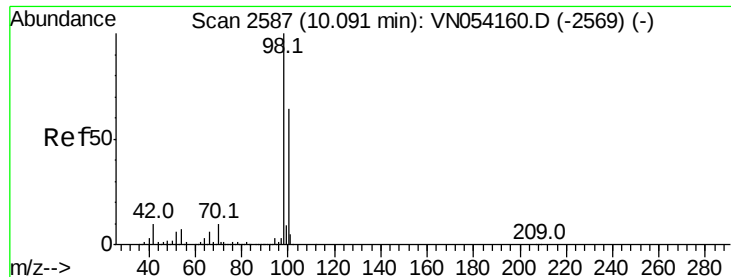
Acq: 13 Mar 2019 19:37

Tgt Ion:	83	Resp:	25157
Ion Ratio	Lower	Upper	
83	100		
55	69.9	56.6	84.8
98	44.4	38.4	57.6



Abundance Ion 83.00 (82.70 to 83.70): VNO
Ion 55.00 (54.70 to 55.70): VNO
Ion 98.00 (97.70 to 98.70): VNO





#50

Toluene-d8

Concen: 52.165 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054222.D

Acq: 13 Mar 2019 19:37

Instrument :

MSVOA_N

ClientSampleId :

PR-MW-01_030819DL

Tot Ion: 98 Resp: 2864913

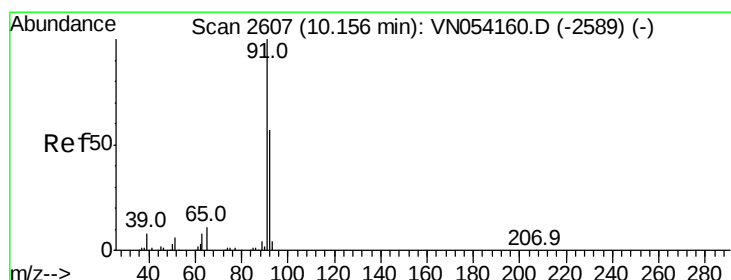
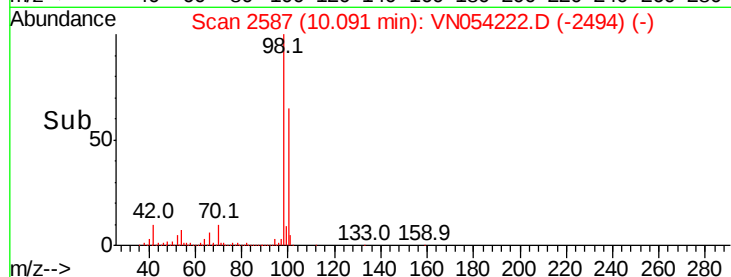
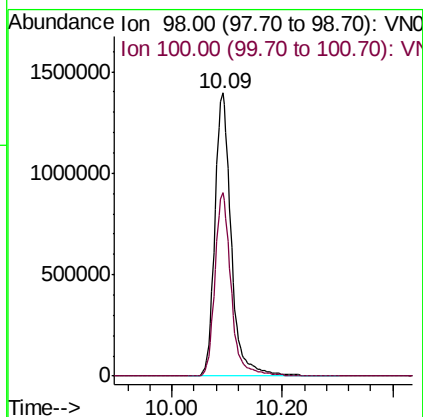
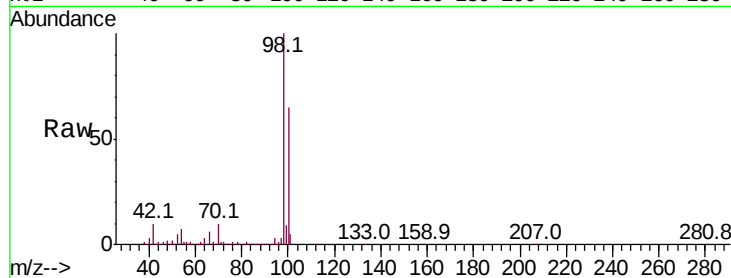
Ion Ratio Lower Upper

98 100

100 64.2 51.2 76.8

Manual Integrations
APPROVED

MMDadoda
3/14/2019 10:27:50 AM



#52

Toluene

Concen: 2.647 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN054222.D

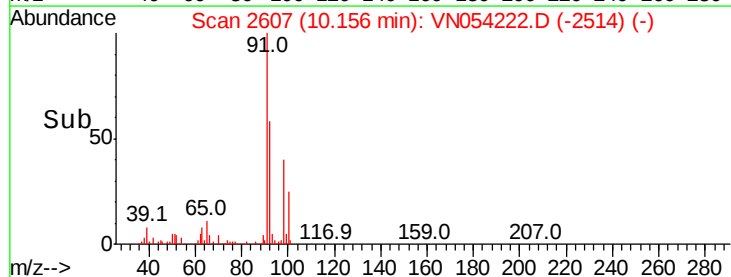
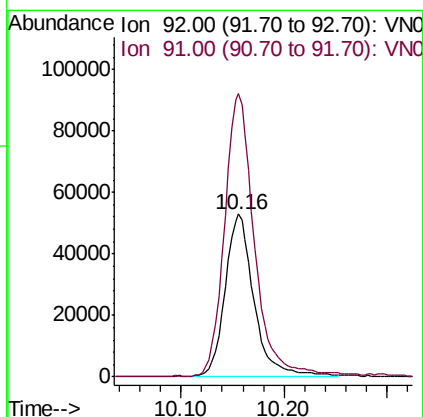
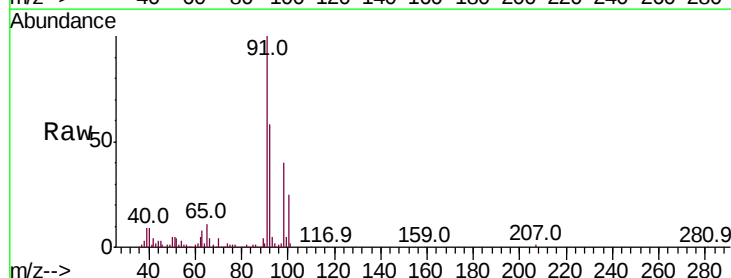
Acq: 13 Mar 2019 19:37

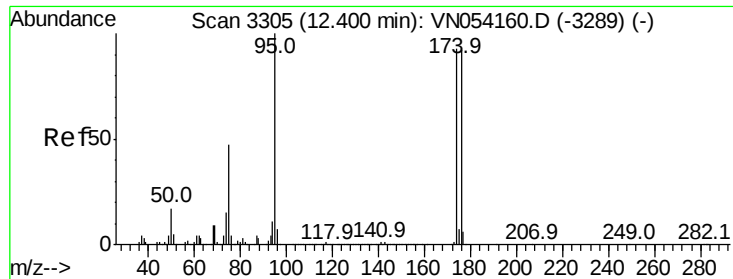
Tgt Ion: 92 Resp: 101991

Ion Ratio Lower Upper

92 100

91 179.1 140.7 211.1





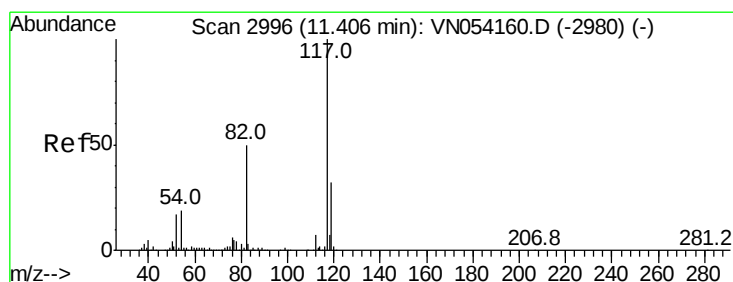
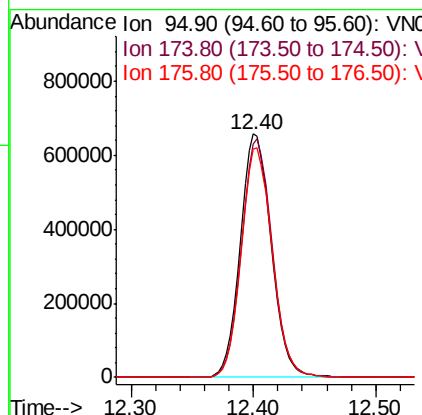
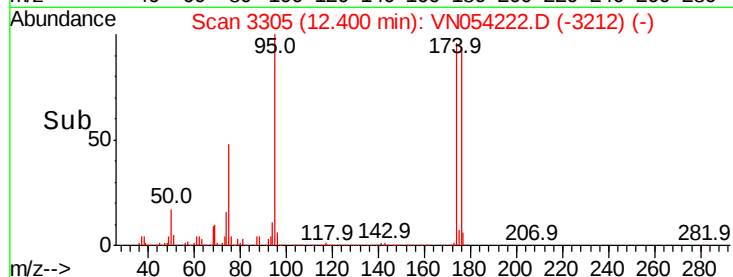
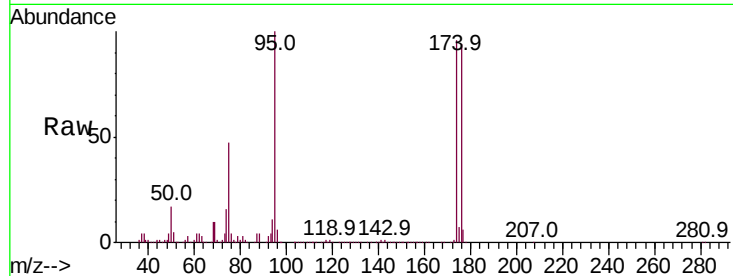
#62
4-Bromofluorobenzene
Concen: 59.601 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN054222.D
Acq: 13 Mar 2019 19:37

Instrument :
MSVOA_N
ClientSampleId :
PR-MW-01_030819DL

Tot Ion: 95 Resp: 1145333
Ion Ratio Lower Upper
95 100
174 97.4 0.0 191.0
176 94.4 0.0 187.4

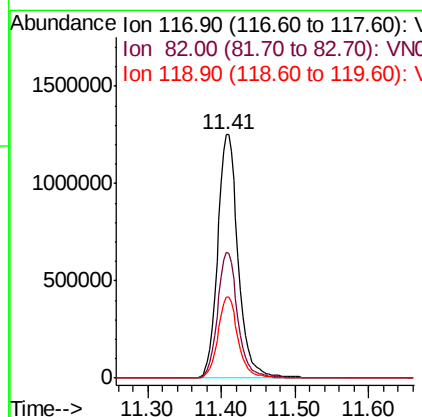
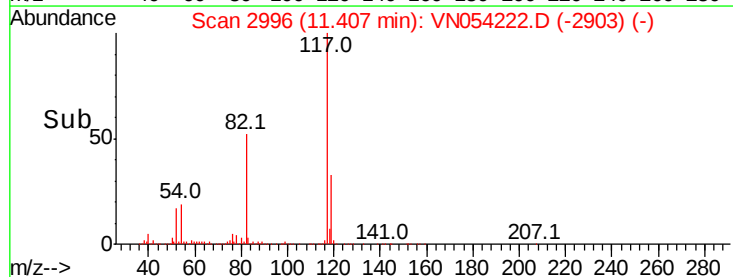
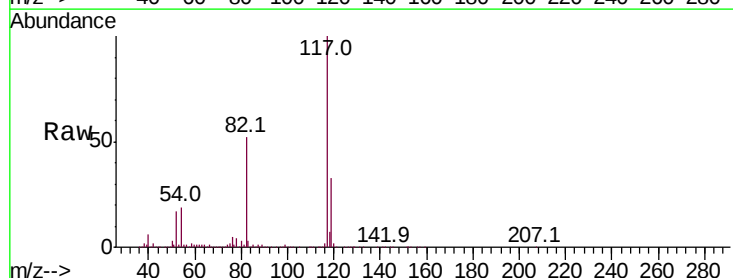
Manual Integrations
APPROVED

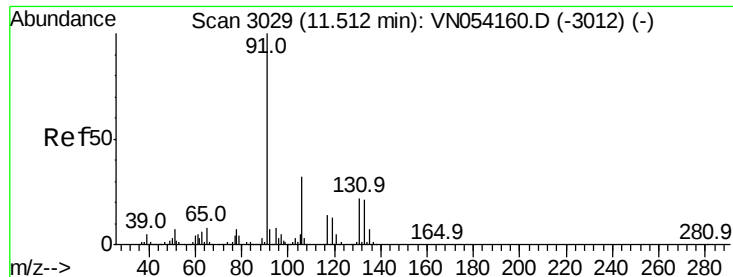
MMDadoda
3/14/2019 10:27:50 AM



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN054222.D
Acq: 13 Mar 2019 19:37

Tgt Ion: 117 Resp: 2403956
Ion Ratio Lower Upper
117 100
82 51.7 40.0 60.0
119 33.2 25.8 38.6





#67

Ethyl Benzene

Concen: 34.551 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN054222.D

Acq: 13 Mar 2019 19:37

Instrument :

MSVOA_N

ClientSampleId :

PR-MW-01_030819DL

Tot Ion: 91 Resp: 3023186

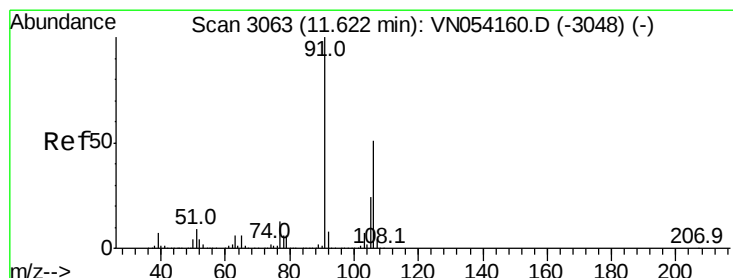
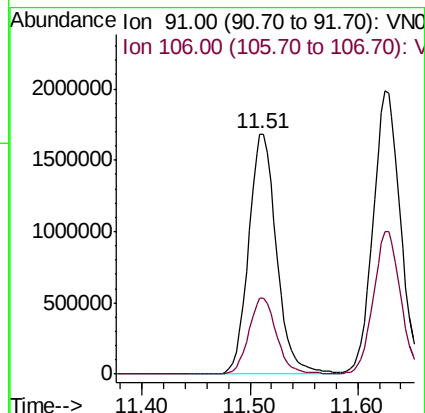
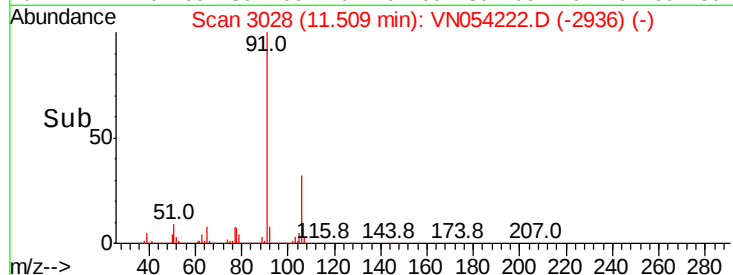
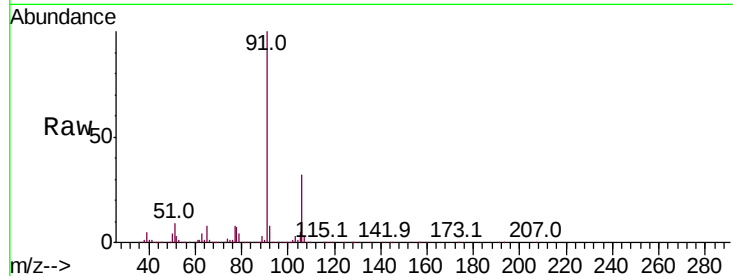
Ion Ratio Lower Upper

91 100

106 31.7 25.5 38.3

Manual Integrations
APPROVED

MMDadoda
3/14/2019 10:27:50 AM



#68

m/p-Xylenes

Concen: 52.292 ug/l

RT: 11.63 min Scan# 3065

Delta R.T. 0.01 min

Lab File: VN054222.D

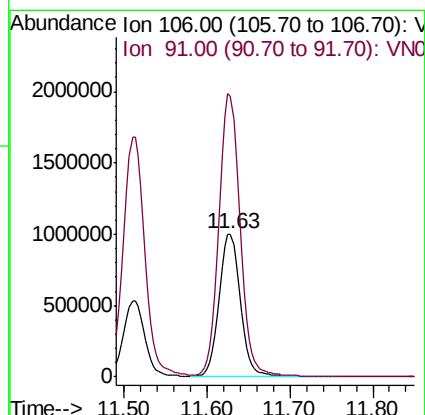
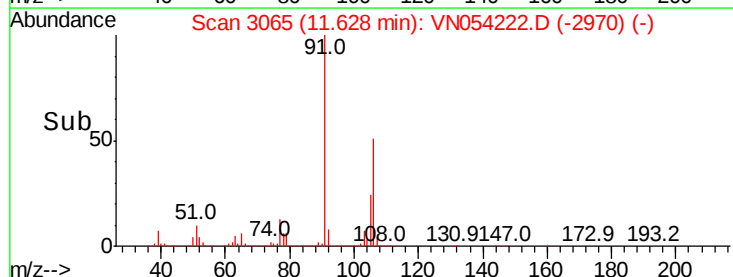
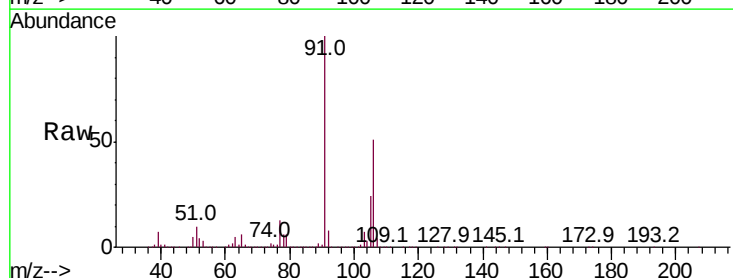
Acq: 13 Mar 2019 19:37

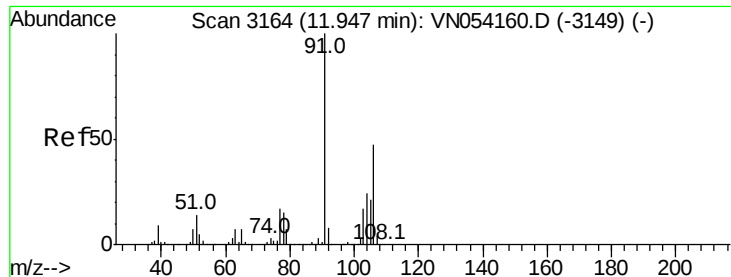
Tgt Ion: 106 Resp: 1788317

Ion Ratio Lower Upper

106 100

91 197.3 159.4 239.2





#69

o-Xylene

Concen: 36.780 ug/l

RT: 11.95 min Scan# 3164

Delta R.T. 0.00 min

Lab File: VN054222.D

Acq: 13 Mar 2019 19:37

Instrument :

MSVOA_N

ClientSampleId :

PR-MW-01_030819DL

Tot Ion:106 Resp: 1226158

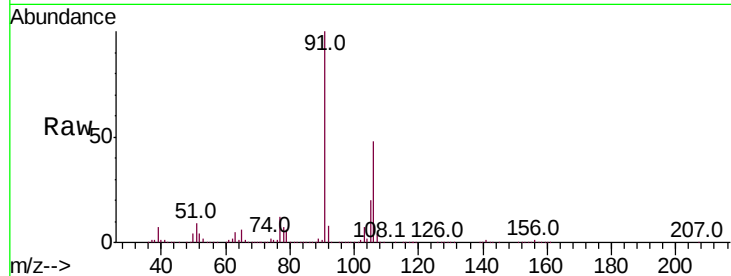
Ion Ratio Lower Upper

106 100

91 210.5 105.7 317.1

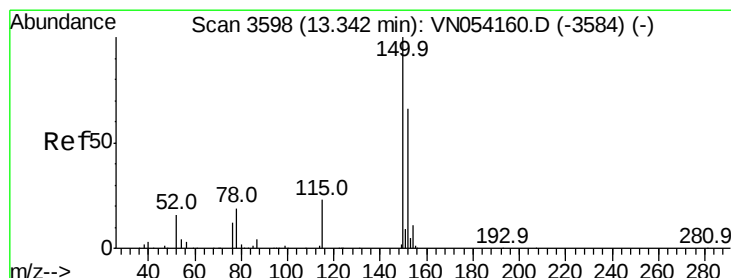
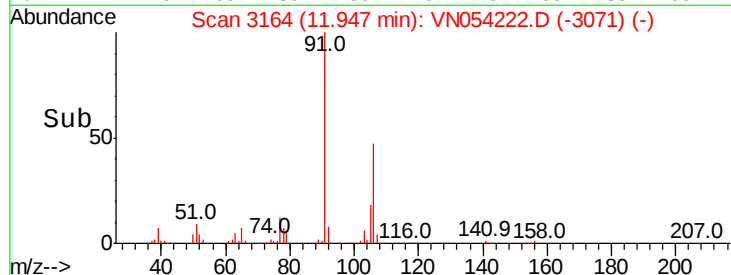
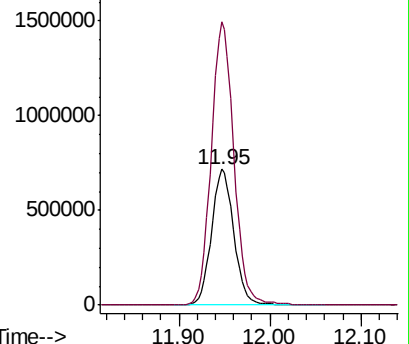
Manual Integrations
APPROVED

MMDadoda
3/14/2019 10:27:50 AM



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN054222.D

Acq: 13 Mar 2019 19:37

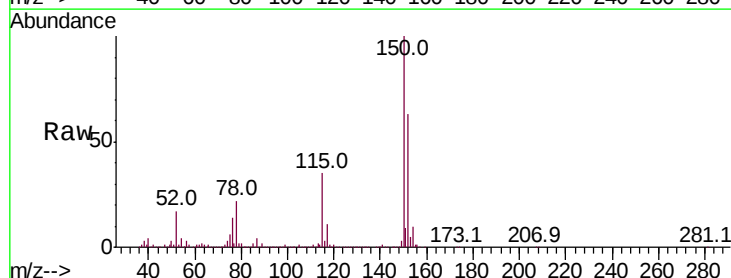
Tgt Ion:152 Resp: 1202112

Ion Ratio Lower Upper

152 100

115 59.2 27.2 81.6

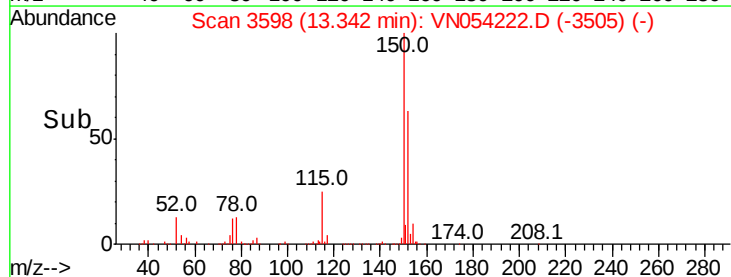
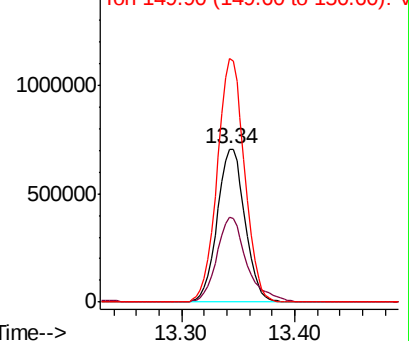
150 156.5 0.0 349.2

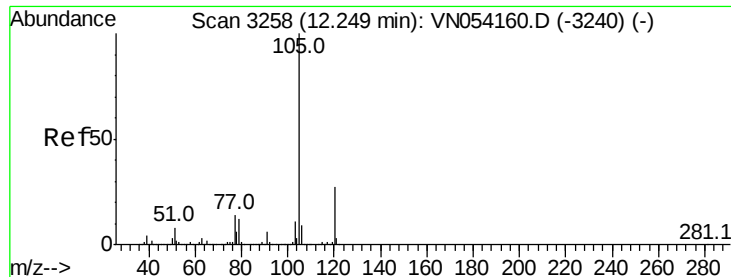


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 3.875 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN054222.D

Acq: 13 Mar 2019 19:37

Instrument :

MSVOA_N

ClientSampleId :

PR-MW-01_030819DL

Tot Ion: 105 Resp: 372719

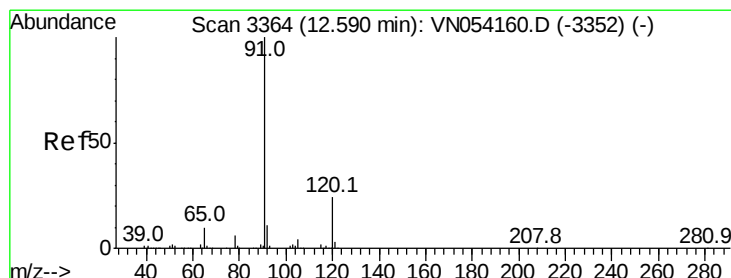
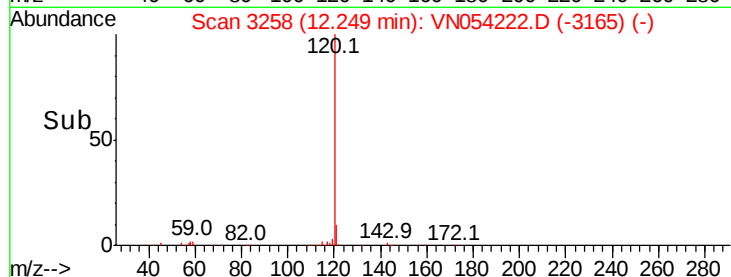
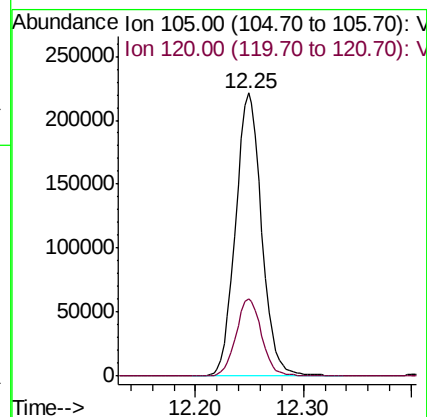
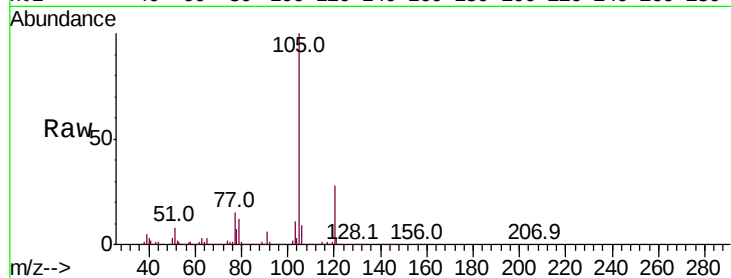
Ion Ratio Lower Upper

105 100

120 27.0 13.8 41.3

Manual Integrations
APPROVED

MMDadoda
3/14/2019 10:27:50 AM



#78

n-propylbenzene

Concen: 4.291 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN054222.D

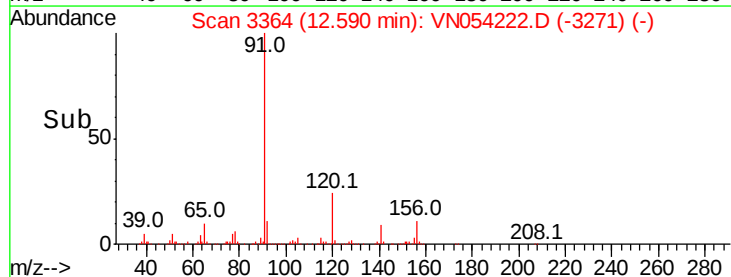
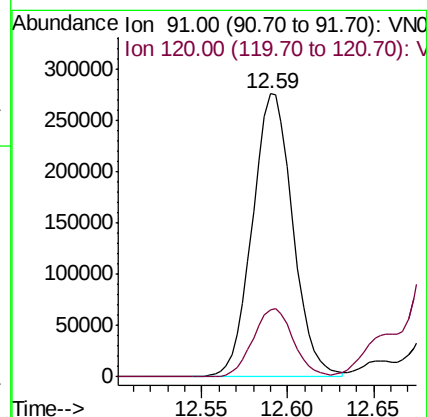
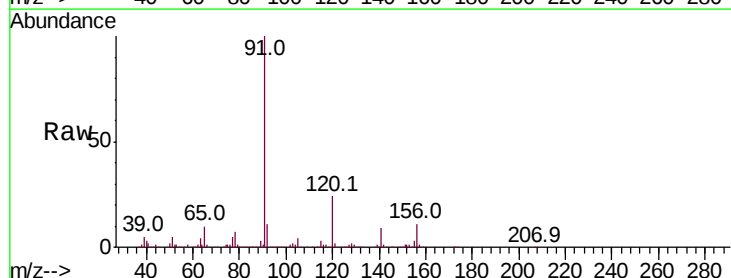
Acq: 13 Mar 2019 19:37

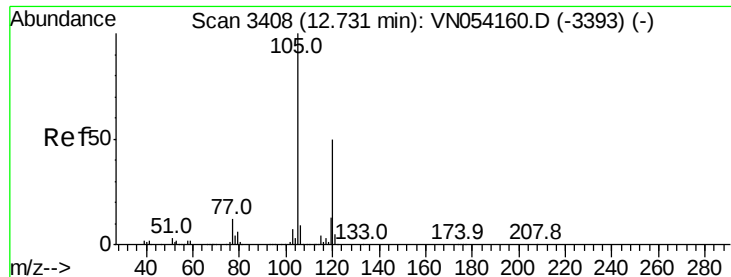
Tgt Ion: 91 Resp: 447789

Ion Ratio Lower Upper

91 100

120 24.2 12.3 36.9





#80

1,3,5-Trimethylbenzene

Concen: 17.458 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN054222.D

Acq: 13 Mar 2019 19:37

Instrument :

MSVOA_N

ClientSampleId :

PR-MW-01_030819DL

Tot Ion:105 Resp: 1396598

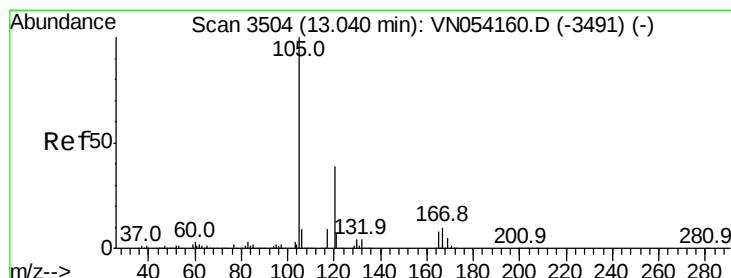
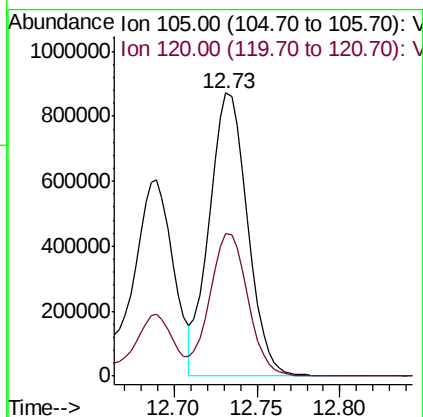
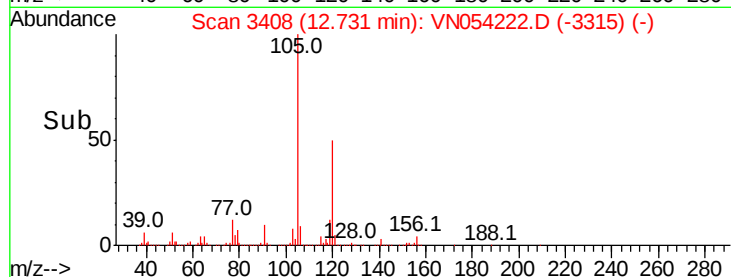
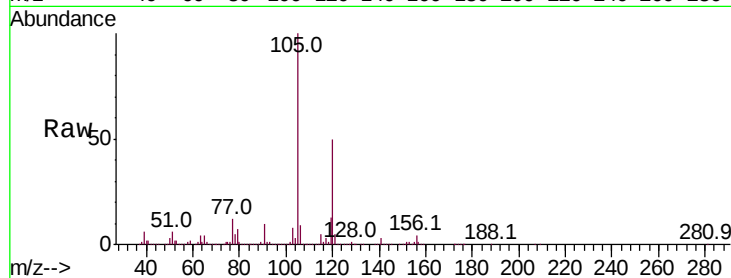
Ion Ratio Lower Upper

105 100

120 50.3 25.0 75.0

Manual Integrations
APPROVED

MMDadoda
3/14/2019 10:27:50 AM



#84

1,2,4-Trimethylbenzene

Concen: 51.788 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN054222.D

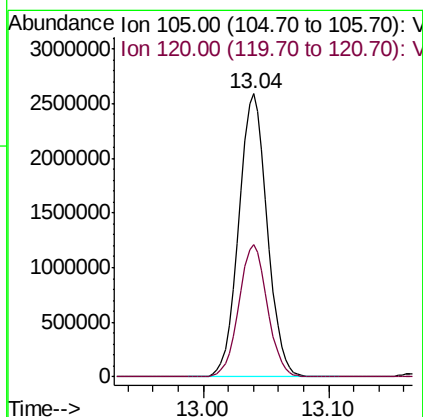
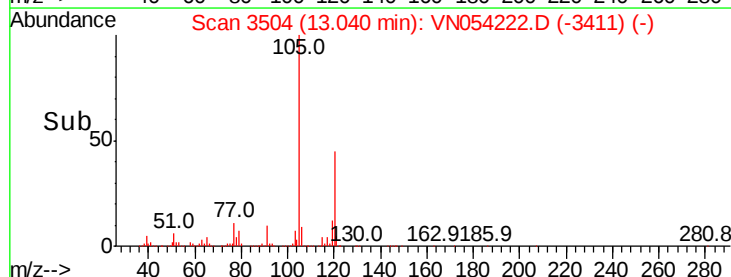
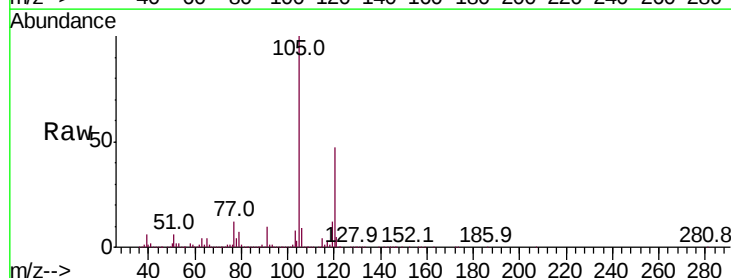
Acq: 13 Mar 2019 19:37

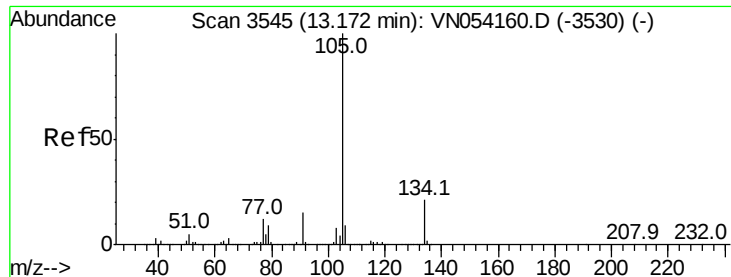
Tgt Ion:105 Resp: 4064483

Ion Ratio Lower Upper

105 100

120 46.8 23.4 70.3





#85

sec-Butylbenzene

Concen: 0.663 ug/l m

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN054222.D

Acq: 13 Mar 2019 19:37

Instrument :

MSVOA_N

ClientSampleId :

PR-MW-01_030819DL

Tot Ion:105 Resp: 63328

Ion Ratio Lower Upper

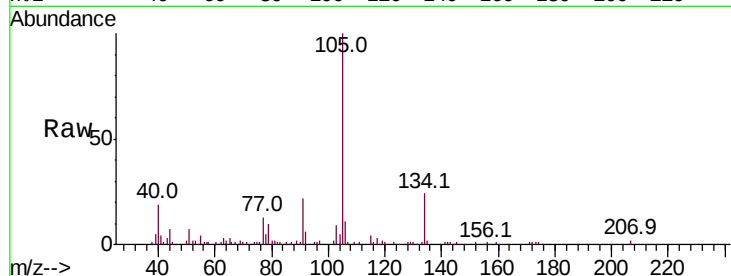
105 100

134 0.0 10.7 32.1#

Manual Integrations
APPROVED

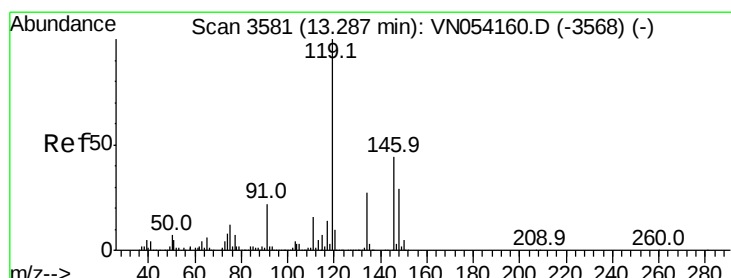
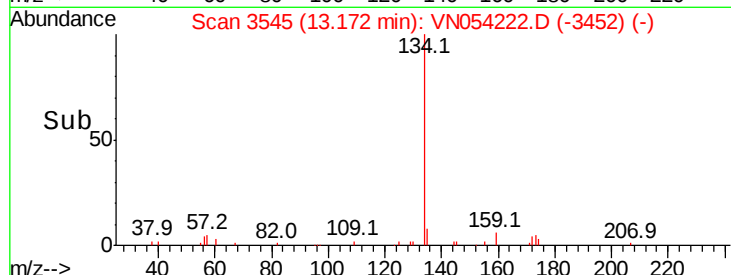
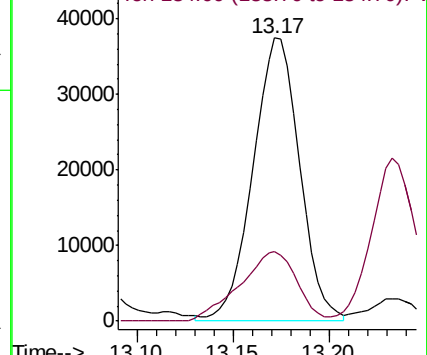
MMDadoda

3/14/2019 10:27:50 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 0.644 ug/l m

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN054222.D

Acq: 13 Mar 2019 19:37

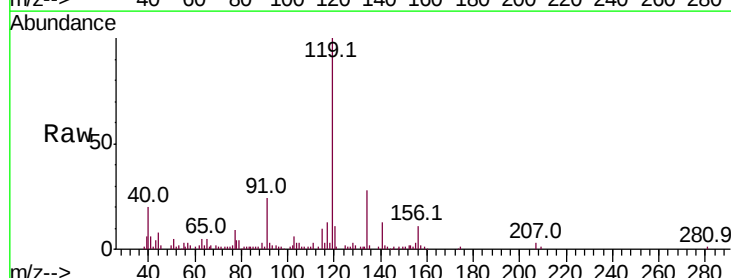
Tgt Ion:119 Resp: 53979

Ion Ratio Lower Upper

119 100

134 63.2 13.6 40.8#

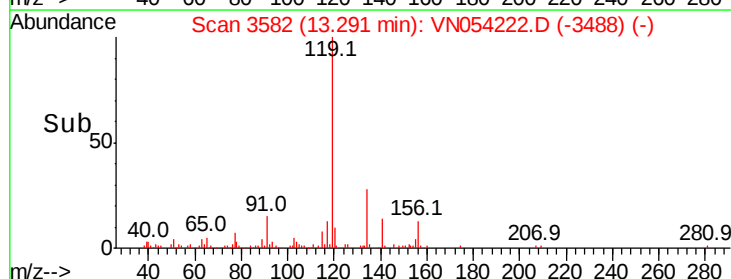
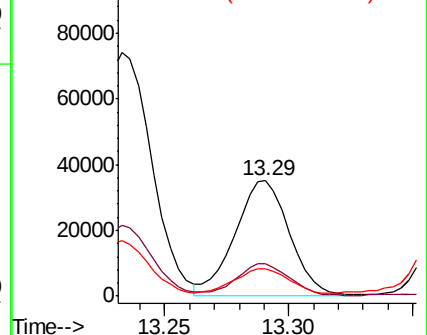
91 45.1 11.1 33.3#

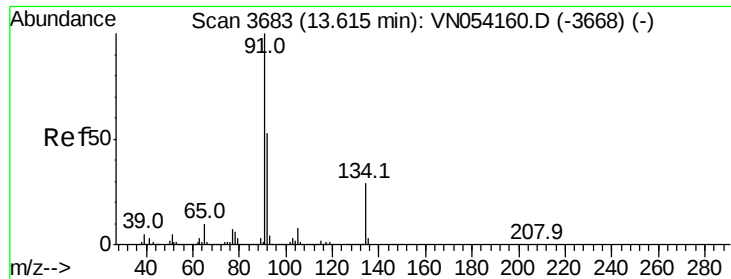


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





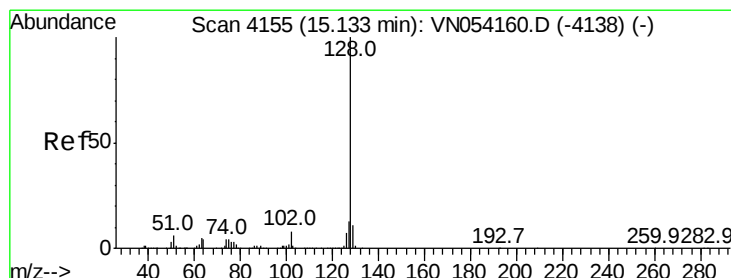
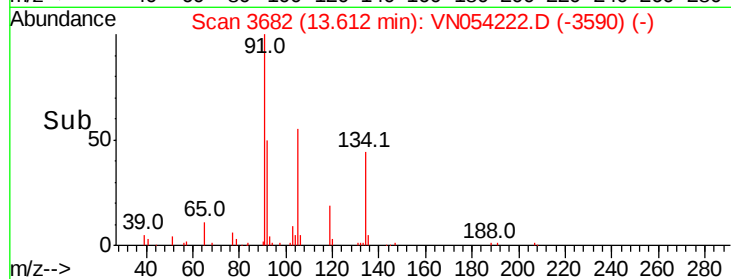
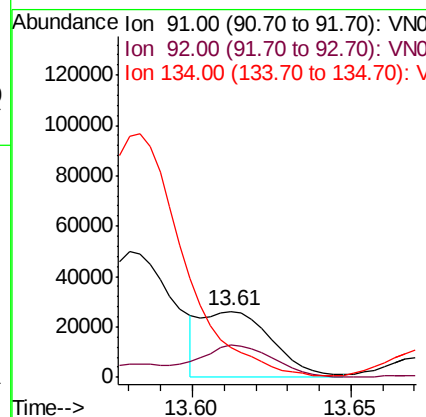
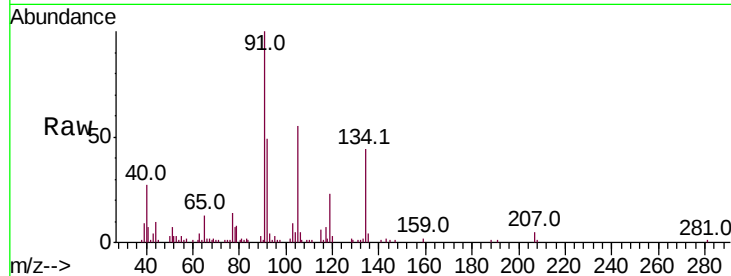
#89
n-Butylbenzene
Concen: 0.639 ug/l m
RT: 13.61 min Scan# 3682
Delta R.T. -0.00 min
Lab File: VN054222.D
Acq: 13 Mar 2019 19:37

Instrument :
MSVOA_N
ClientSampleId :
PR-MW-01_030819DL

Tot Ion	Ratio	Lower	Upper
91	100		
92	13.8	26.2	78.6#
134	440.9	14.3	42.9#

Manual Integrations
APPROVED

MMDadoda
3/14/2019 10:27:50 AM



#95
Naphthalene
Concen: 20.477 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN054222.D
Acq: 13 Mar 2019 19:37

Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.1	15.1
129	10.7	8.7	13.1

