

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN070920\
 Data File : VN062451.D
 Acq On : 9 Jul 2020 12:40
 Operator : JC/MD
 Sample : L3215-18DL 10X
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-3DL

Manual Integrations
 APPROVED

MMDadoda
 7/10/2020 9:23:47 AM

Quant Time: Jul 14 02:59:20 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N070820W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 10 00:55:52 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	197479	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	359258	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	344211	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	143704	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	154065	50.72	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.44%	
35) Dibromofluoromethane	7.55	113	113274	51.01	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.02%	
50) Toluene-d8	10.06	98	464365	52.97	ug/l	0.00
Spiked Amount 50.000			Recovery	=	105.94%	
62) 4-Bromofluorobenzene	12.38	95	175737	54.86	ug/l	0.00
Spiked Amount 50.000			Recovery	=	109.72%	
Target Compounds						
					Qvalue	
16) Acetone	3.78	43	3306	2.564	ug/l	94
39) Methylcyclohexane	9.05	83	11918	3.084	ug/l	94
40) Benzene	8.00	78	93322	8.748	ug/l	99
52) Toluene	10.12	92	17717	2.875	ug/l	99
67) Ethyl Benzene	11.48	91	832021	66.258	ug/l	99
68) m/p-Xylenes	11.60	106	98446	22.146	ug/l	98
69) o-Xylene	11.92	106	35325	8.162	ug/l	99
73) Isopropylbenzene	12.22	105	43613	3.922	ug/l	100
78) n-propylbenzene	12.57	91	112466	8.658	ug/l	98
80) 1,3,5-Trimethylbenzene	12.71	105	9942m	1.091	ug/l	
84) 1,2,4-Trimethylbenzene	13.01	105	812507	89.669	ug/l	99
85) sec-Butylbenzene	13.15	105	13774m	1.344	ug/l	
86) p-Isopropyltoluene	13.26	119	6649	0.751	ug/l #	75
89) n-Butylbenzene	13.59	91	22290	2.853	ug/l #	78
95) Naphthalene	15.10	128	298786	53.916	ug/l	99

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

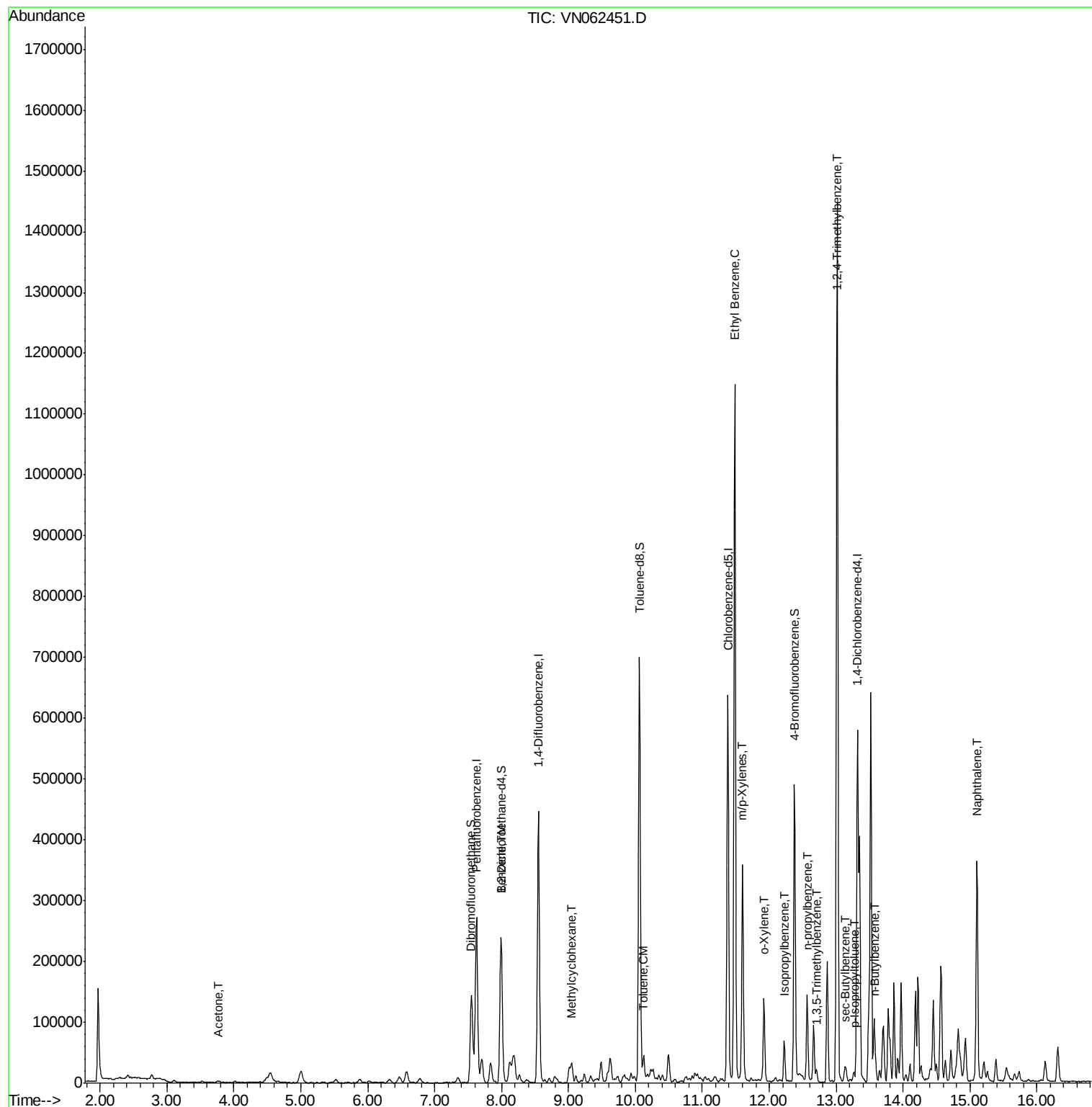
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN070920\
Data File : VN062451.D
Acq On : 9 Jul 2020 12:40
Operator : JC/MD
Sample : L3215-18DL 10X
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

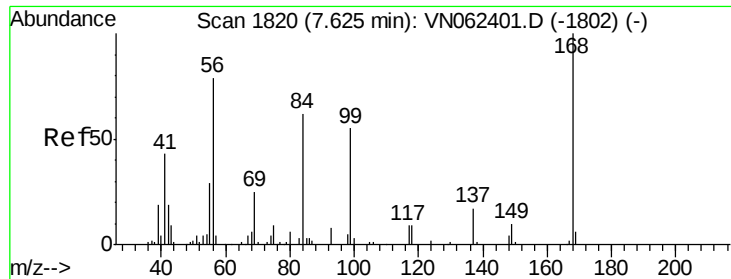
Instrument :
MSVOA_N
ClientSampleId :
MW-3DL

Manual Integrations
APPROVED

MMDadoda
7/10/2020 9:23:47 AM

Quant Time: Jul 14 02:59:20 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N070820W.M
Quant Title : SW846 8260
QLast Update : Fri Jul 10 00:55:52 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VN062451.D

Acq: 9 Jul 2020 12:40

Instrument :

MSVOA_N

ClientSampleId :

MW-3DL

Tgt Ion:168 Resp: 197479

Ion Ratio Lower Upper

168 100

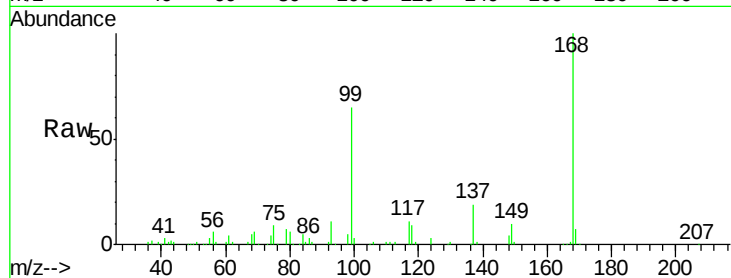
99 65.4 48.8 73.2

Manual Integrations

APPROVED

MMDadoda

7/10/2020 9:23:47 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

80000

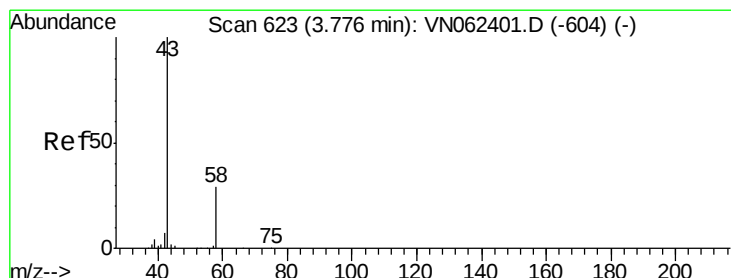
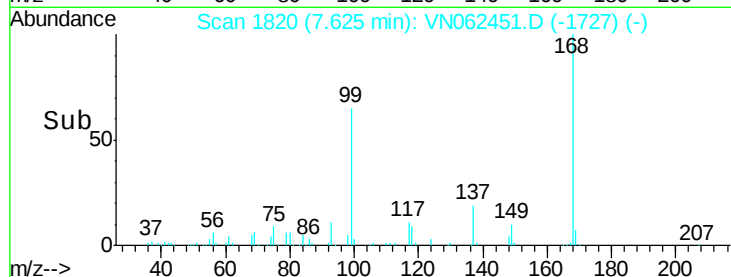
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#16

Acetone

Concen: 2.564 ug/l

RT: 3.78 min Scan# 623

Delta R.T. 0.00 min

Lab File: VN062451.D

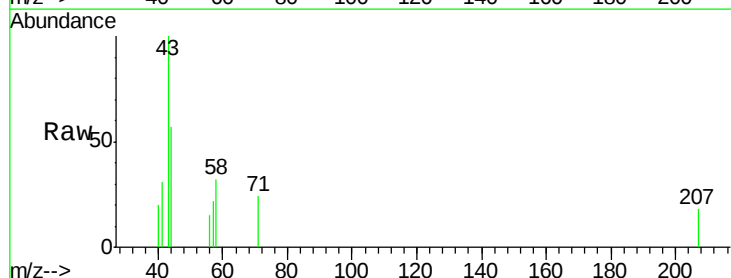
Acq: 9 Jul 2020 12:40

Tgt Ion: 43 Resp: 3306

Ion Ratio Lower Upper

43 100

58 32.5 23.5 35.3



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

3.78

1000

800

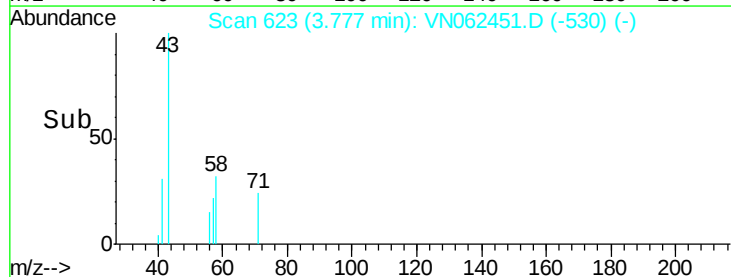
600

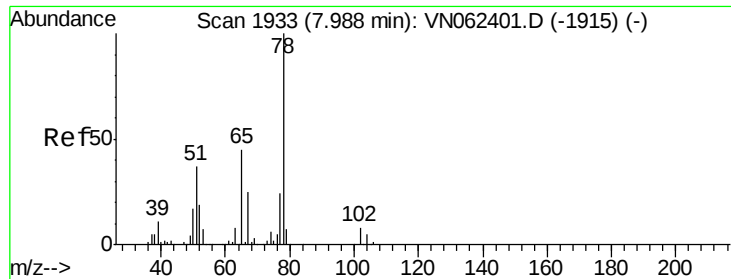
400

200

0

Time--> 3.70 3.75 3.80 3.85





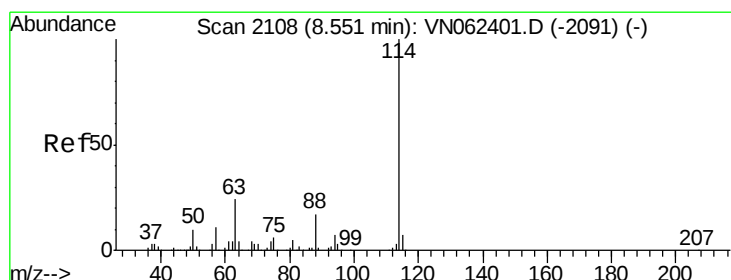
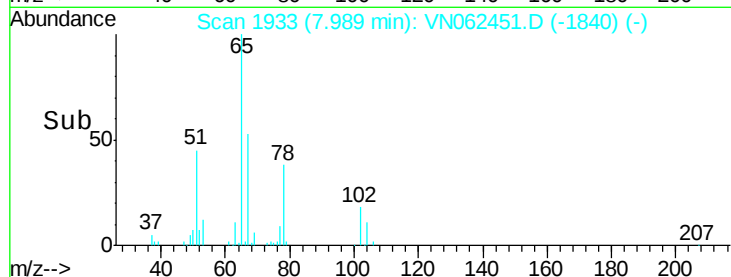
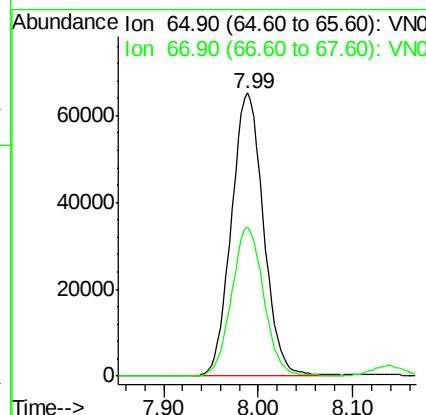
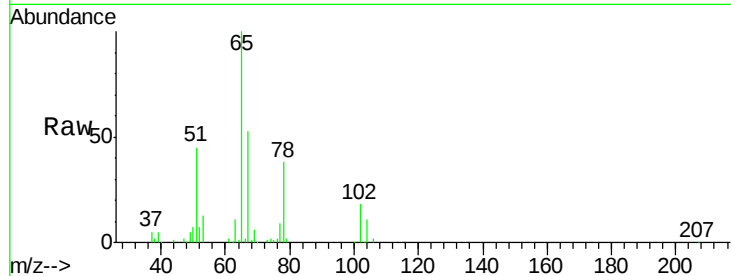
#33
 1,2-Dichloroethane-d4
 Concen: 50.721 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. 0.00 min
 Lab File: VN062451.D
 Acq: 9 Jul 2020 12:40

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-3DL

Tgt Ion	Ratio	Resp	Lower	Upper
65	100	154065		
67	52.6	0.0	107.6	

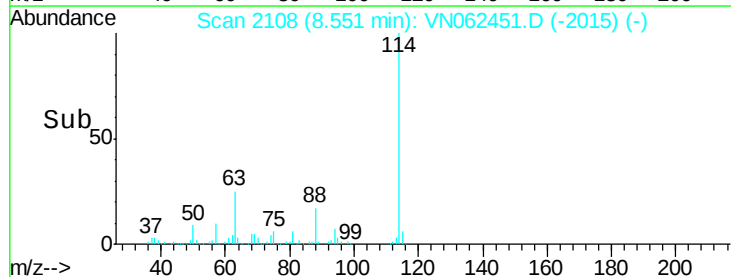
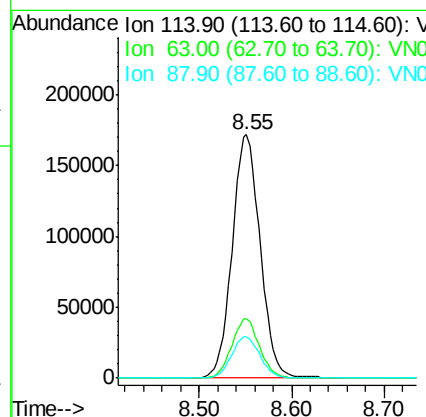
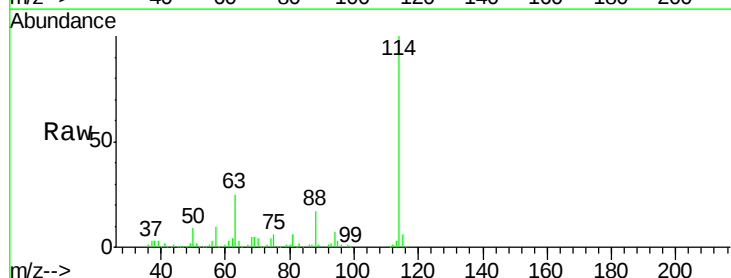
Manual Integrations
 APPROVED

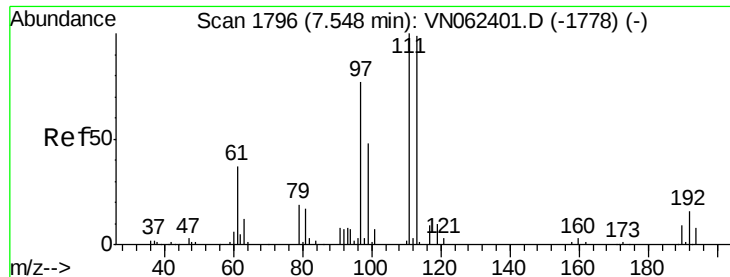
MMDadoda
 7/10/2020 9:23:47 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN062451.D
 Acq: 9 Jul 2020 12:40

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	359258		
63	24.6	0.0	48.4	
88	17.2	0.0	33.8	





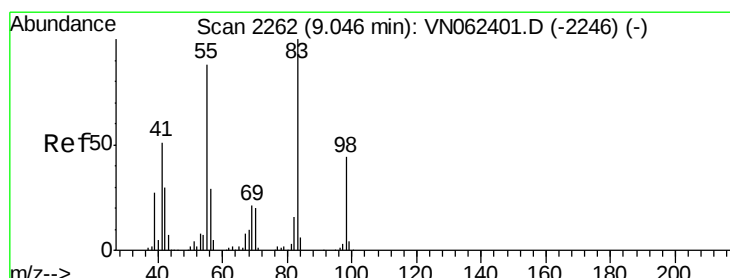
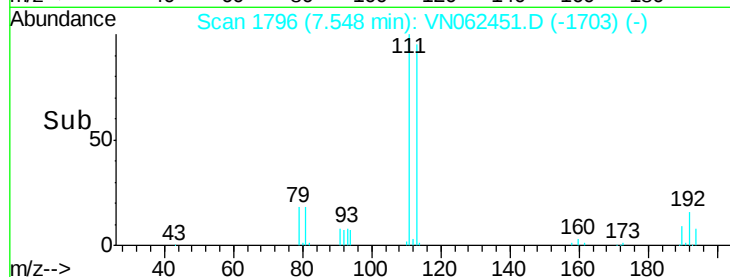
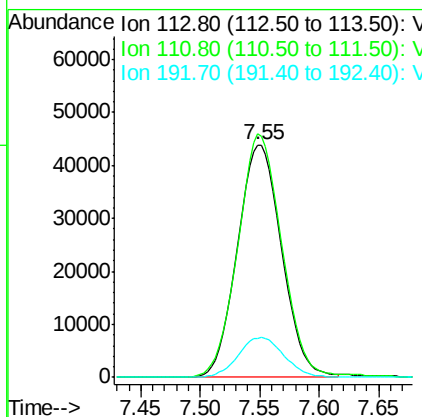
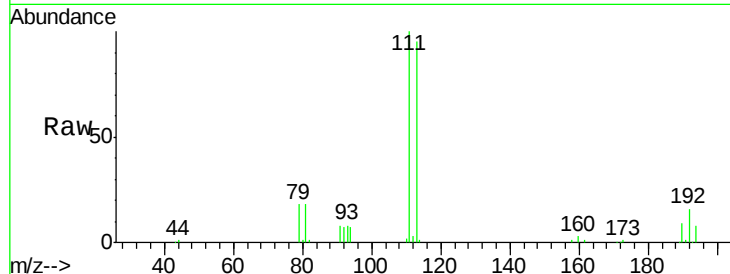
#35
 Dibromofluoromethane
 Concen: 51.008 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. 0.00 min
 Lab File: VN062451.D
 Acq: 9 Jul 2020 12:40

Instrument :
 MSVOA_N
 ClientSampled :
 MW-3DL

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	113274		
111	103.5	83.1	124.7	
192	17.6	14.1	21.1	

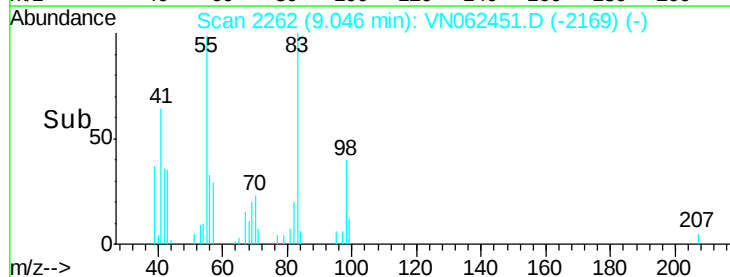
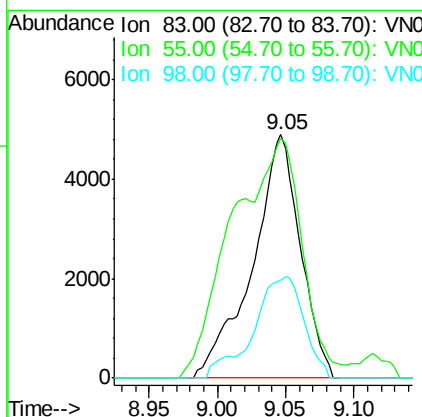
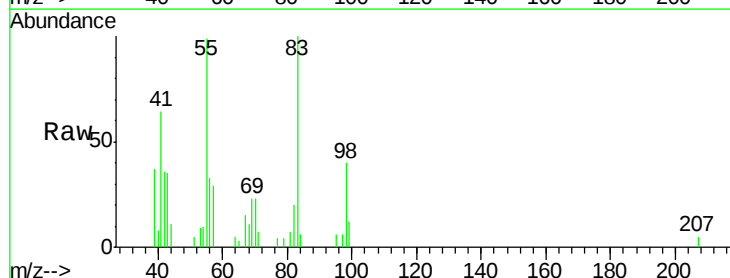
Manual Integrations
 APPROVED

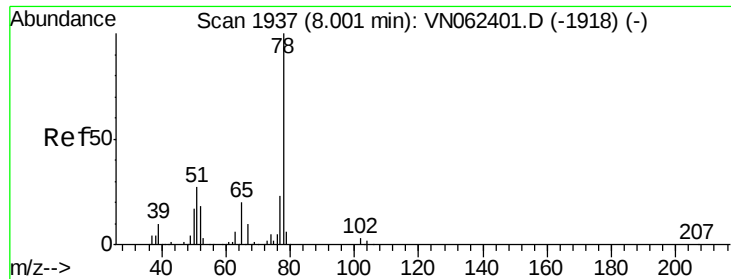
MMDadoda
 7/10/2020 9:23:47 AM



#39
 Methylcyclohexane
 Concen: 3.084 ug/l
 RT: 9.05 min Scan# 2262
 Delta R.T. 0.00 min
 Lab File: VN062451.D
 Acq: 9 Jul 2020 12:40

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	11918		
55	93.2	70.5	105.7	
98	40.3	35.5	53.3	





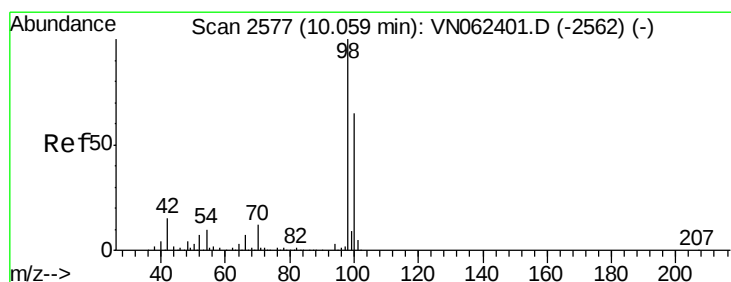
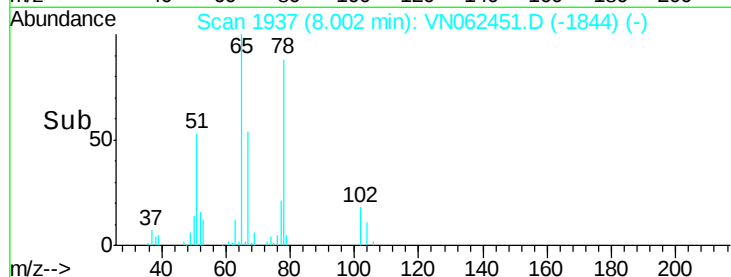
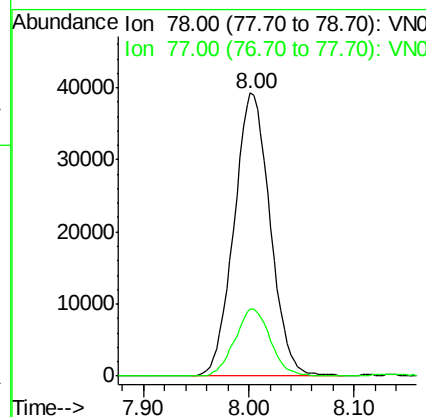
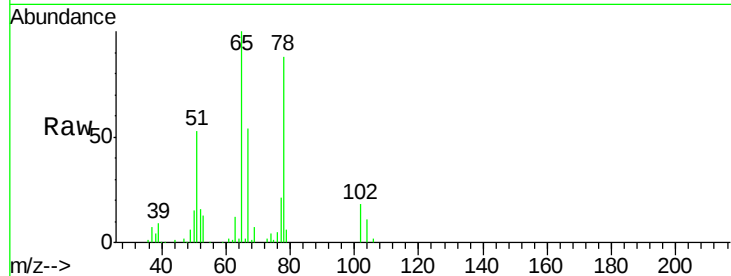
#40
Benzene
Concen: 8.748 ug/l
RT: 8.00 min Scan# 1937
Delta R.T. 0.00 min
Lab File: VN062451.D
Acq: 9 Jul 2020 12:40

Instrument :
MSVOA_N
ClientSampleId :
MW-3DL

Tgt Ion: 78 Resp: 93322
Ion Ratio Lower Upper
78 100
77 23.9 18.7 28.1

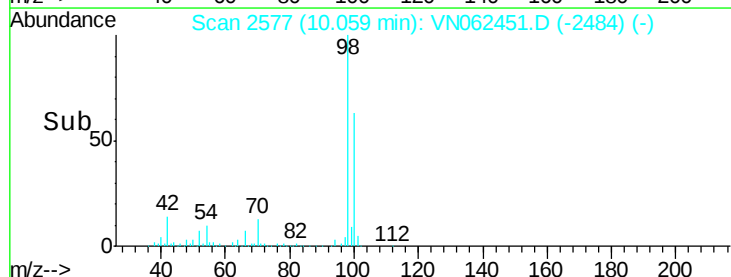
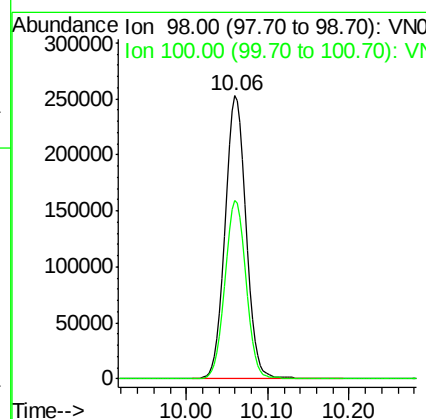
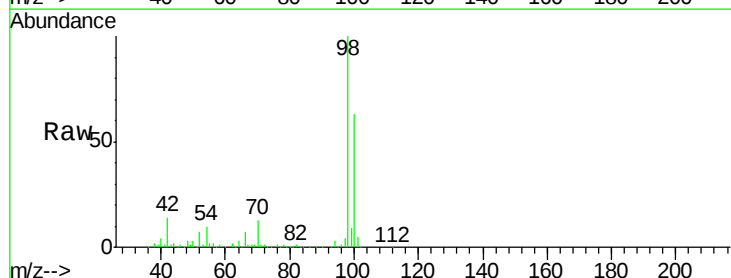
Manual Integrations
APPROVED

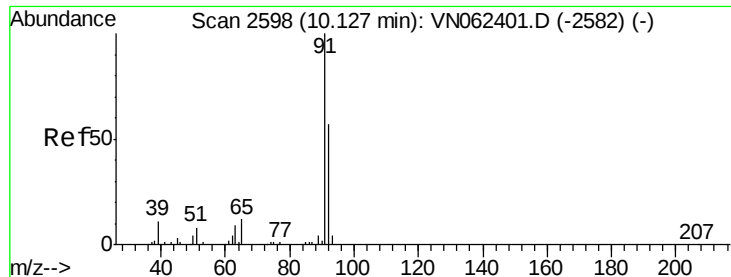
MMDadoda
7/10/2020 9:23:47 AM



#50
Toluene-d8
Concen: 52.969 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. 0.00 min
Lab File: VN062451.D
Acq: 9 Jul 2020 12:40

Tgt Ion: 98 Resp: 464365
Ion Ratio Lower Upper
98 100
100 63.4 51.5 77.3





#52

Toluene

Concen: 2.875 ug/l

RT: 10.12 min Scan# 2597

Delta R.T. -0.00 min

Lab File: VN062451.D

Acq: 9 Jul 2020 12:40

Instrument :

MSVOA_N

ClientSampleId :

MW-3DL

Tgt Ion: 92 Resp: 17717

Ion Ratio Lower Upper

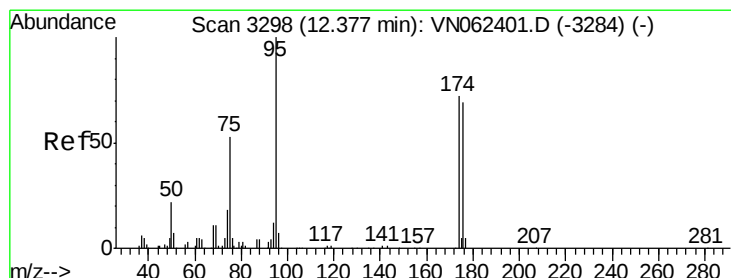
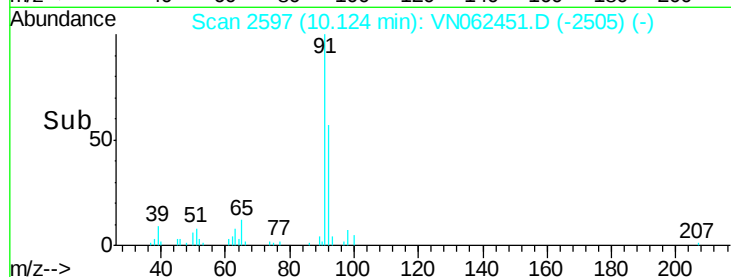
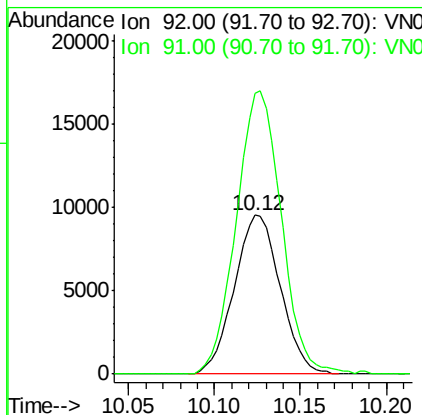
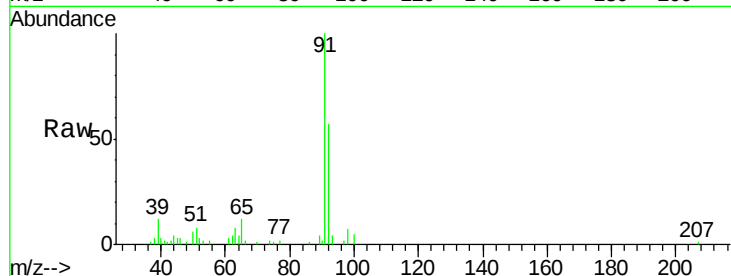
92 100

91 174.8 141.0 211.6

Manual Integrations
APPROVED

MMDadoda

7/10/2020 9:23:47 AM



#62

4-Bromofluorobenzene

Concen: 54.856 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN062451.D

Acq: 9 Jul 2020 12:40

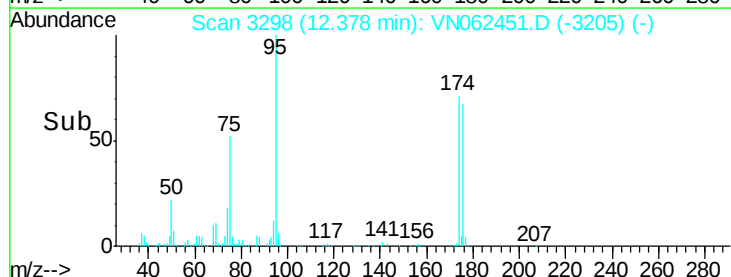
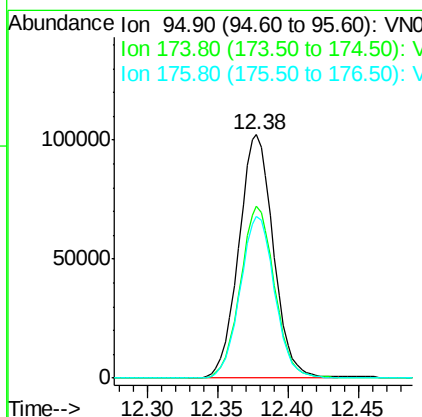
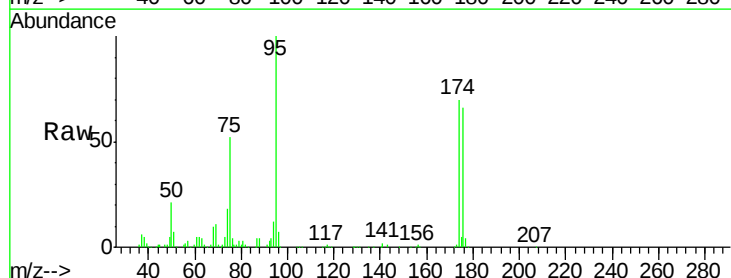
Tgt Ion: 95 Resp: 175737

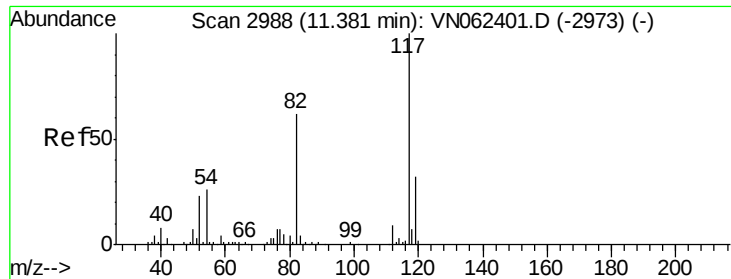
Ion Ratio Lower Upper

95 100

174 70.0 0.0 141.6

176 66.4 0.0 137.2





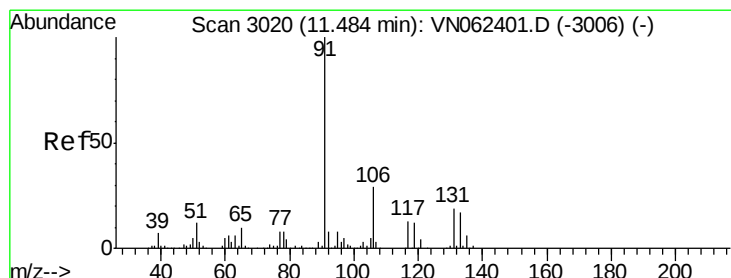
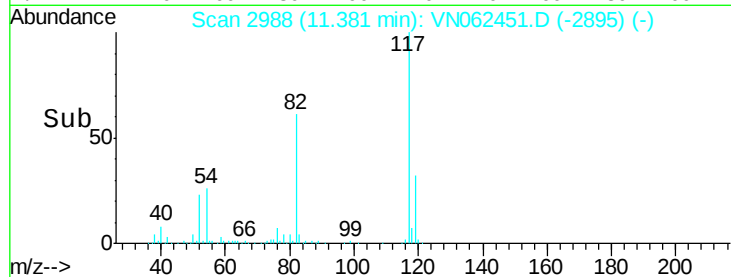
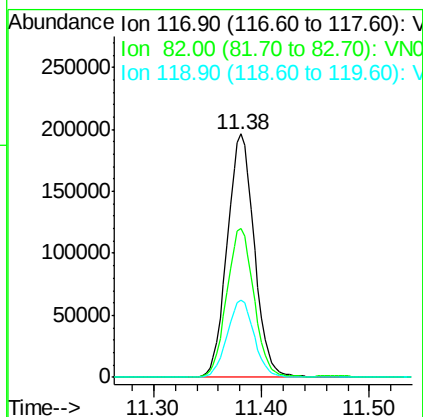
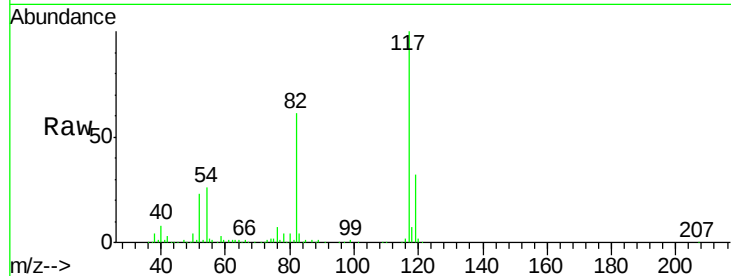
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN062451.D
Acq: 9 Jul 2020 12:40

Instrument :
MSVOA_N
ClientSampleId :
MW-3DL

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	344211		
82	61.4	49.6	74.4	
119	31.7	25.4	38.0	

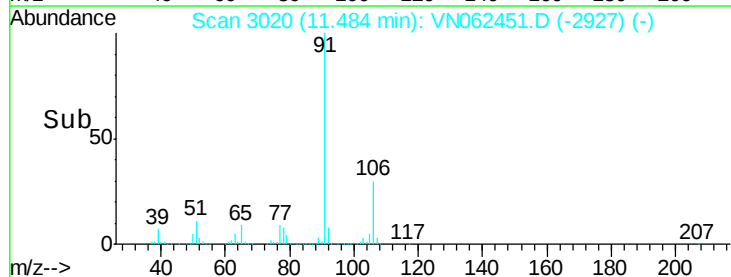
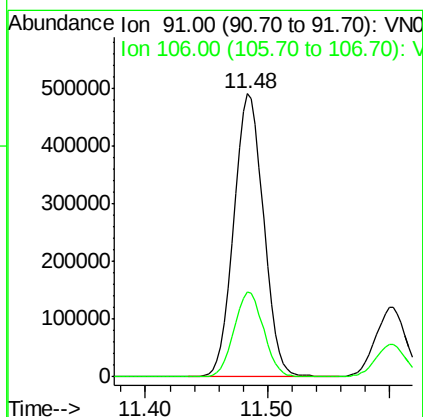
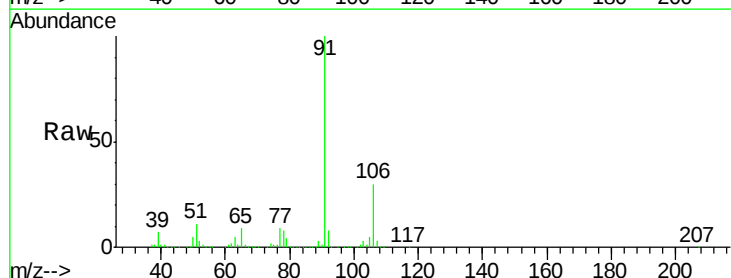
Manual Integrations
APPROVED

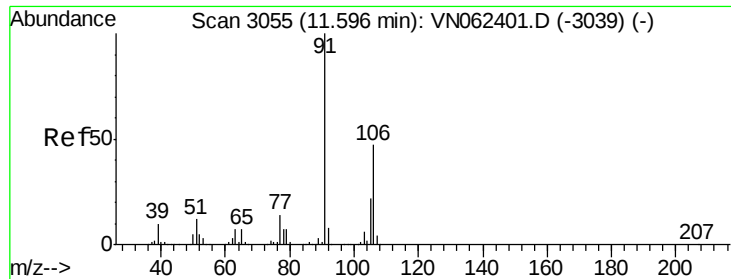
MMDadoda
7/10/2020 9:23:47 AM



#67
Ethyl Benzene
Concen: 66.258 ug/l
RT: 11.48 min Scan# 3020
Delta R.T. 0.00 min
Lab File: VN062451.D
Acq: 9 Jul 2020 12:40

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	832021		
106	30.0	23.4	35.2	





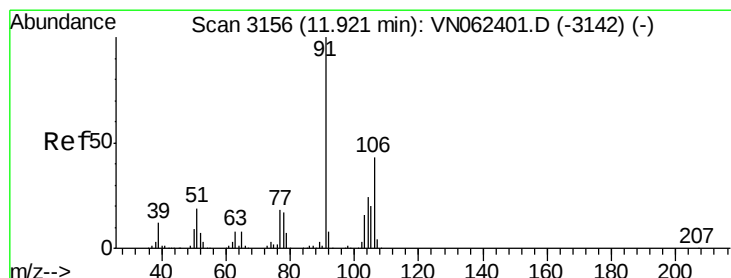
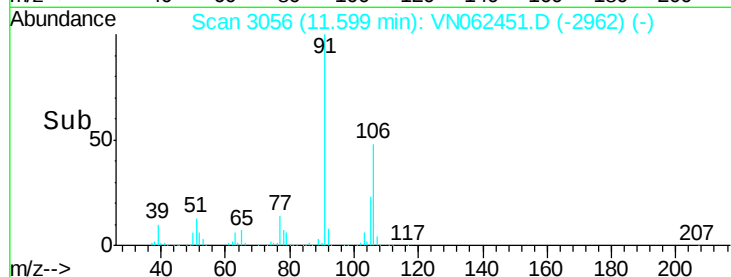
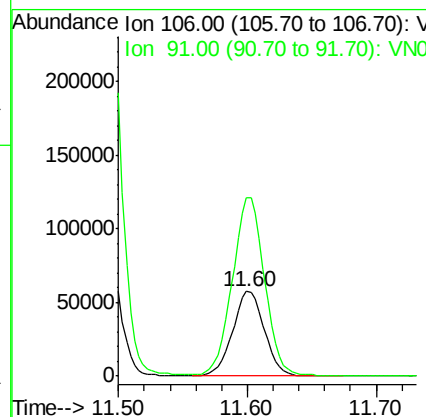
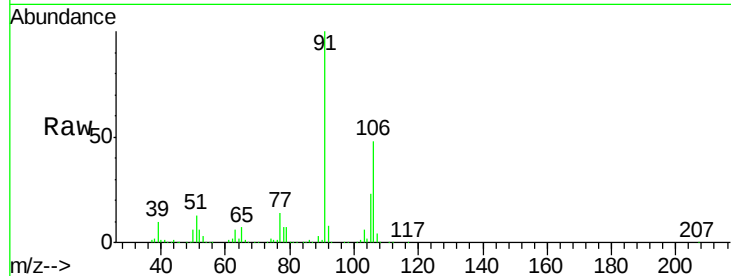
#68
m/p-Xylenes
Concen: 22.146 ug/l
RT: 11.60 min Scan# 3056
Delta R.T. 0.00 min
Lab File: VN062451.D
Acq: 9 Jul 2020 12:40

Instrument :
MSVOA_N
ClientSampled :
MW-3DL

Tgt Ion:106 Resp: 98446
Ion Ratio Lower Upper
106 100
91 212.4 172.4 258.6

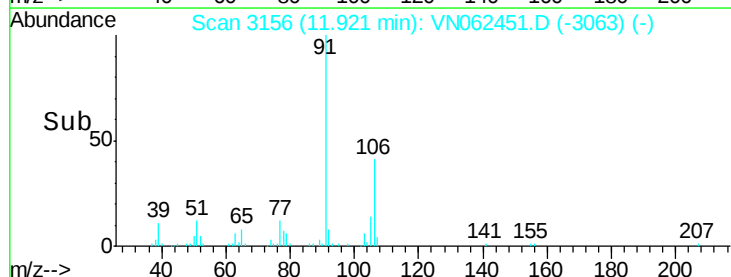
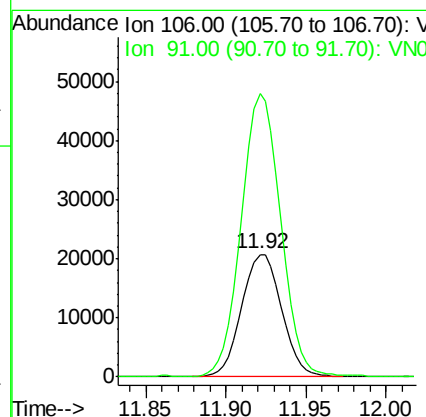
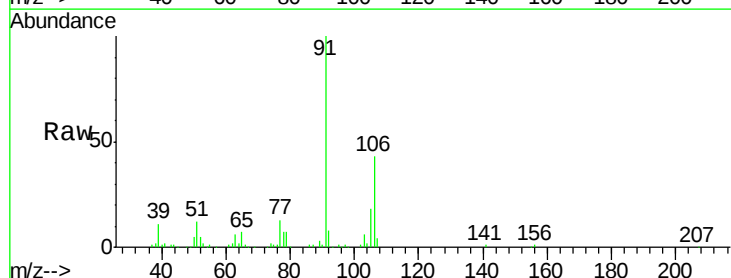
Manual Integrations
APPROVED

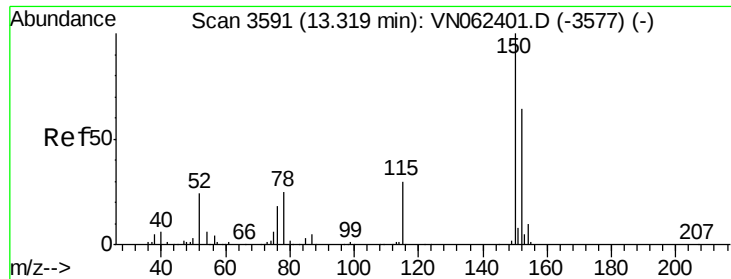
MMDadoda
7/10/2020 9:23:47 AM



#69
o-Xylene
Concen: 8.162 ug/l
RT: 11.92 min Scan# 3156
Delta R.T. 0.00 min
Lab File: VN062451.D
Acq: 9 Jul 2020 12:40

Tgt Ion:106 Resp: 35325
Ion Ratio Lower Upper
106 100
91 229.1 113.8 341.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN062451.D

Acq: 9 Jul 2020 12:40

Instrument :

MSVOA_N

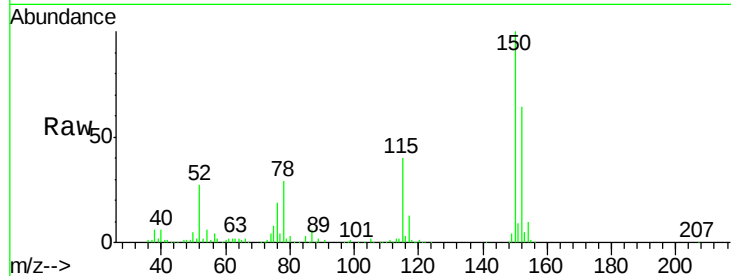
ClientSampleId :

MW-3DL

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	143704		
115	68.1	31.4	94.2	
150	156.4	0.0	347.4	

Manual Integrations
APPROVED

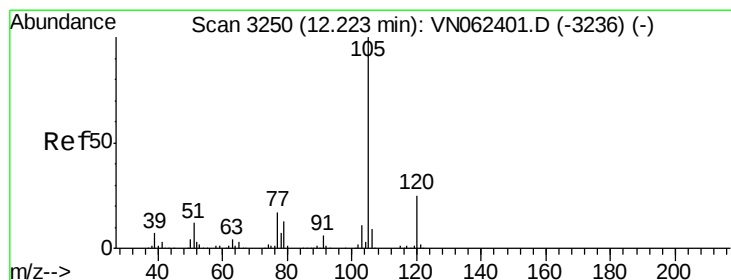
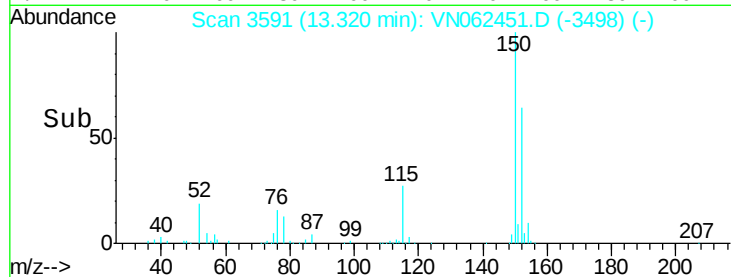
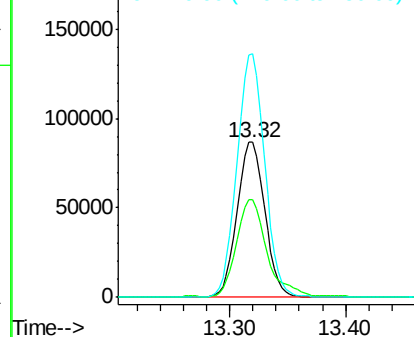
MMDadoda
7/10/2020 9:23:47 AM



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: 3.922 ug/l

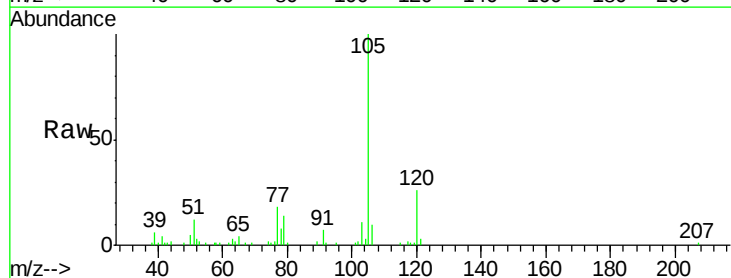
RT: 12.22 min Scan# 3250

Delta R.T. 0.00 min

Lab File: VN062451.D

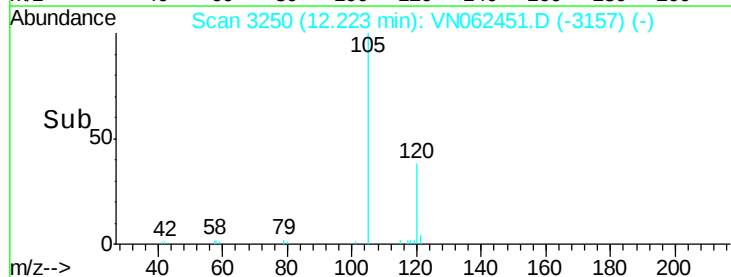
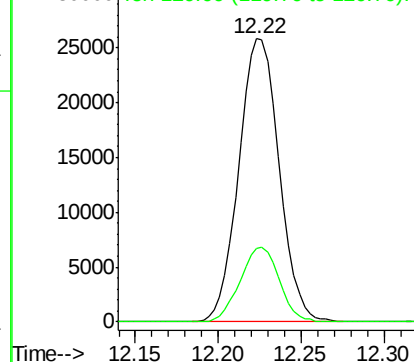
Acq: 9 Jul 2020 12:40

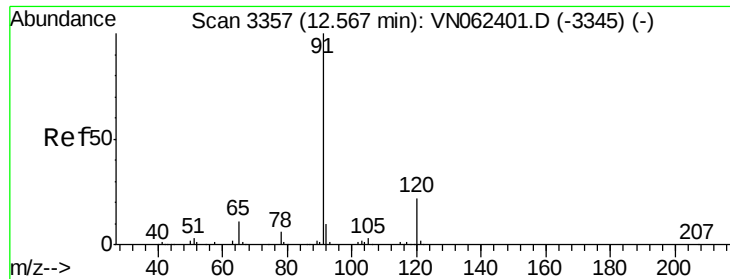
Tgt Ion	Ratio	Resp	Lower	Upper
105	100	43613		
120	25.5	12.7	38.1	



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#78

n-propylbenzene

Concen: 8.658 ug/l

RT: 12.57 min Scan# 3357

Delta R.T. 0.00 min

Lab File: VN062451.D

Acq: 9 Jul 2020 12:40

Instrument :

MSVOA_N

ClientSampleId :

MW-3DL

Tgt Ion: 91 Resp: 112466

Ion Ratio Lower Upper

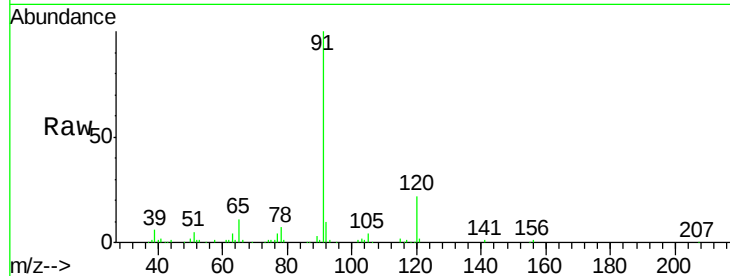
91 100

120 22.3 10.7 32.1

Manual Integrations
APPROVED

MMDadoda

7/10/2020 9:23:47 AM



Abundance Ion 91.00 (90.70 to 91.70): VN062451.D (-3264) (-)

Ion 120.00 (119.70 to 120.70): VN062451.D (-3264) (-)

12.57

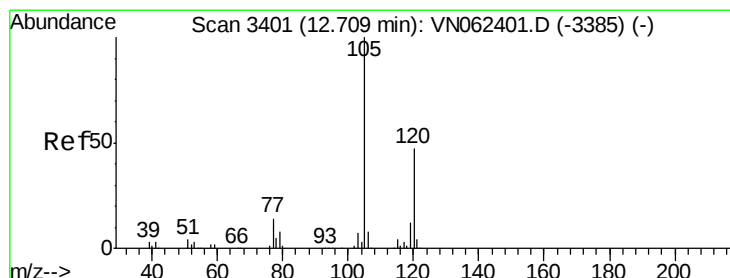
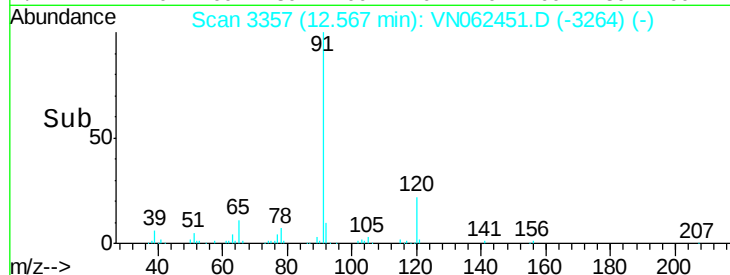
60000

40000

20000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 1.091 ug/l m

RT: 12.71 min Scan# 3401

Delta R.T. 0.00 min

Lab File: VN062451.D

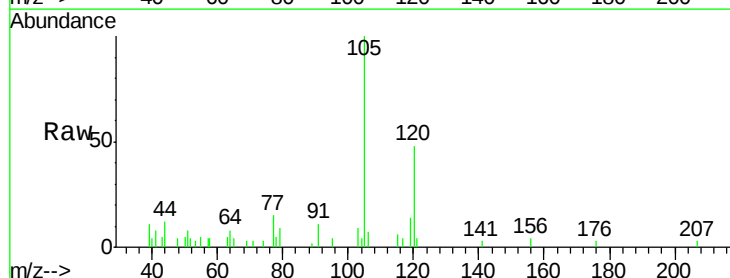
Acq: 9 Jul 2020 12:40

Tgt Ion: 105 Resp: 9942

Ion Ratio Lower Upper

105 100

120 159.8 23.4 70.2#



Abundance Ion 105.00 (104.70 to 105.70): VN062451.D (-3308) (-)

Ion 120.00 (119.70 to 120.70): VN062451.D (-3308) (-)

12.71

40000

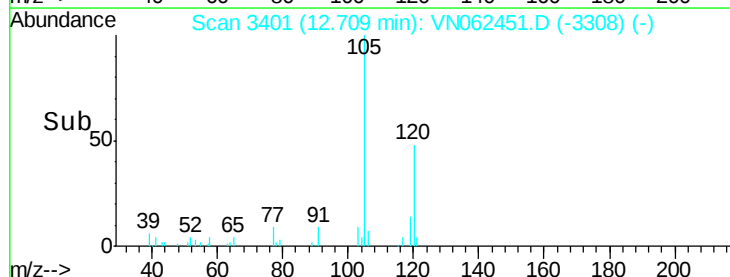
30000

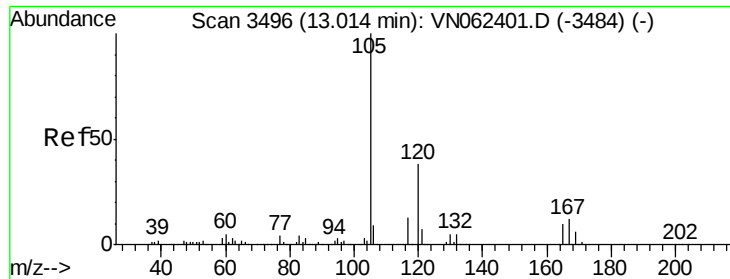
20000

10000

0

Time-->





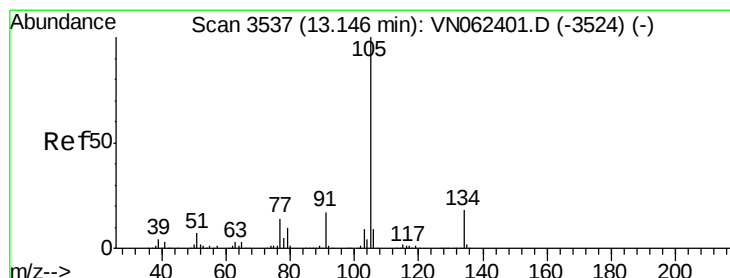
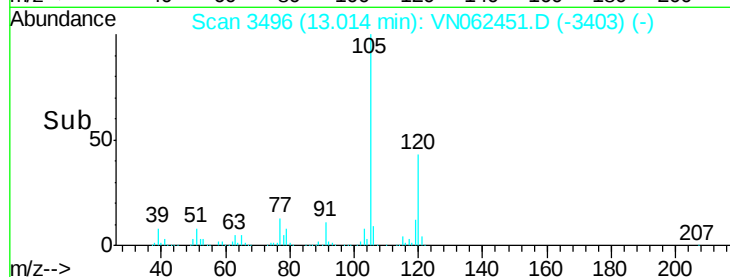
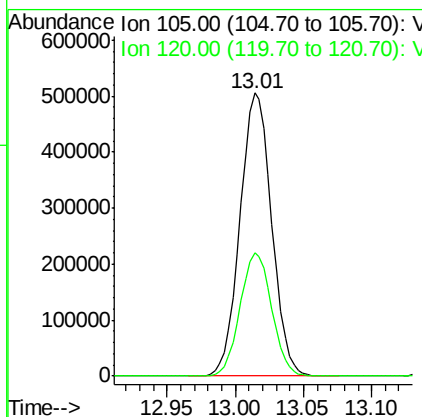
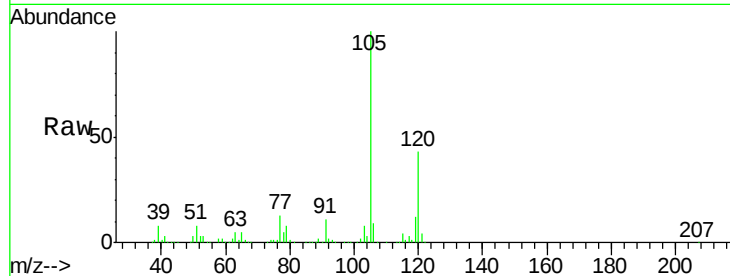
#84
 1,2,4-Trimethylbenzene
 Concen: 89.669 ug/l
 RT: 13.01 min Scan# 3496
 Delta R.T. 0.00 min
 Lab File: VN062451.D
 Acq: 9 Jul 2020 12:40

Instrument :
 MSVOA_N
 ClientSampled :
 MW-3DL

Tgt Ion	Ratio	Lower	Upper
105	100		
120	43.6	21.6	64.8

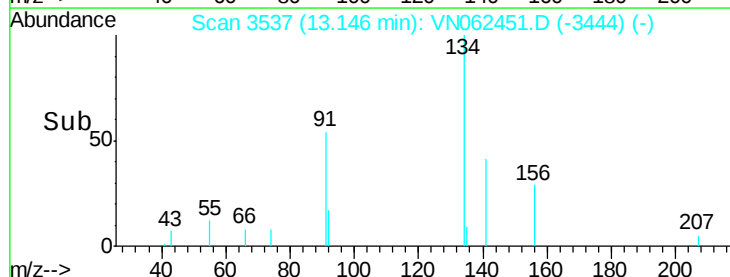
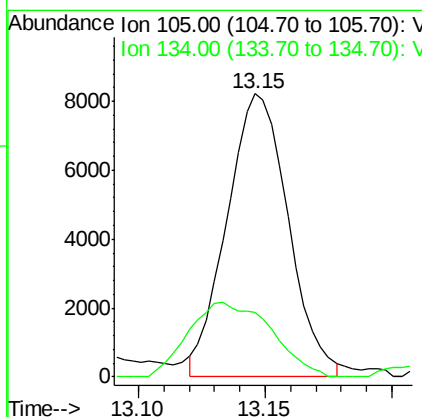
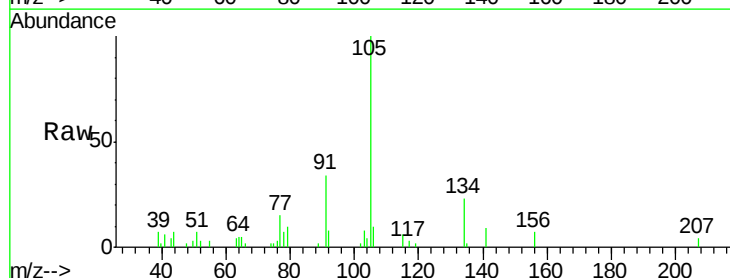
Manual Integrations
 APPROVED

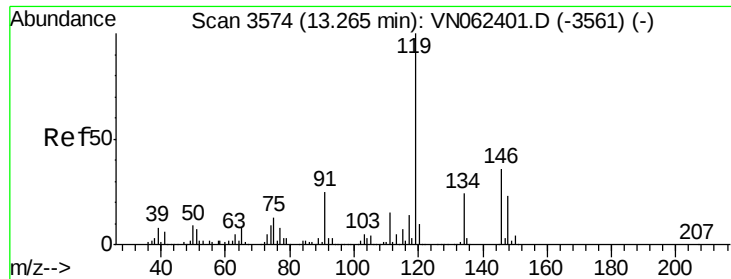
MMDadoda
 7/10/2020 9:23:47 AM



#85
 sec-Butylbenzene
 Concen: 1.344 ug/l m
 RT: 13.15 min Scan# 3537
 Delta R.T. 0.00 min
 Lab File: VN062451.D
 Acq: 9 Jul 2020 12:40

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





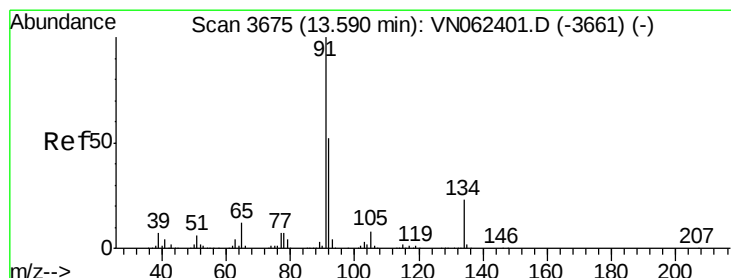
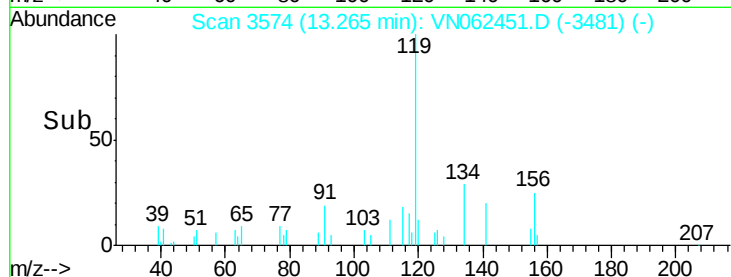
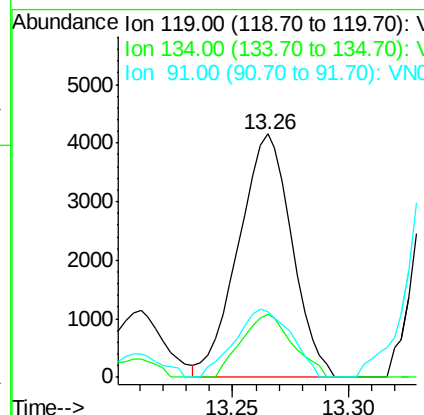
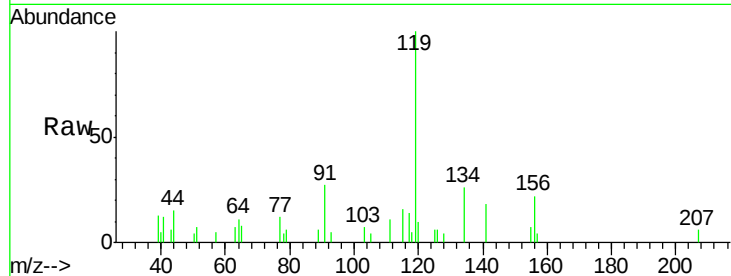
#86
p-Isopropyltoluene
Concen: 0.751 ug/l
RT: 13.26 min Scan# 3574
Delta R.T. 0.00 min
Lab File: VN062451.D
Acq: 9 Jul 2020 12:40

Instrument :
MSVOA_N
ClientSampled :
MW-3DL

Tgt Ion	Ratio	Lower	Upper
119	100		
134	24.8	12.4	37.0
91	0.0	12.4	37.4#

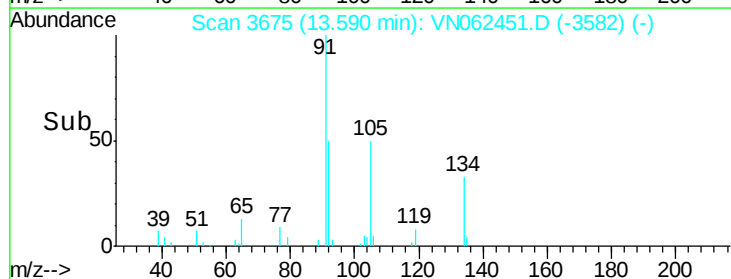
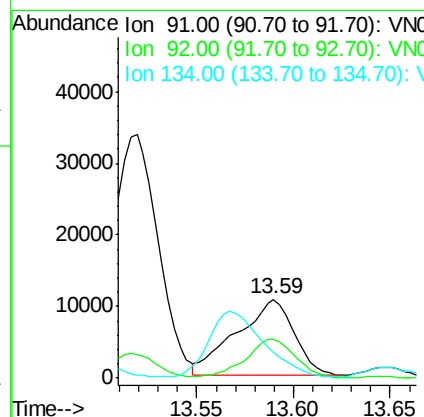
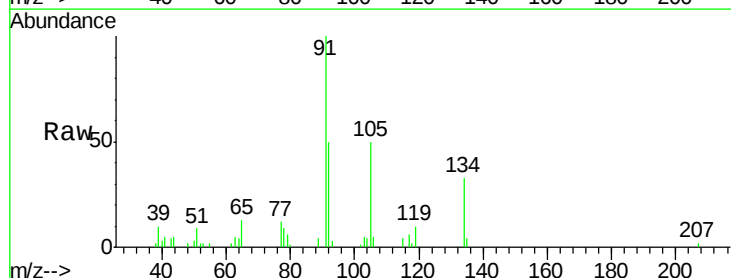
Manual Integrations
APPROVED

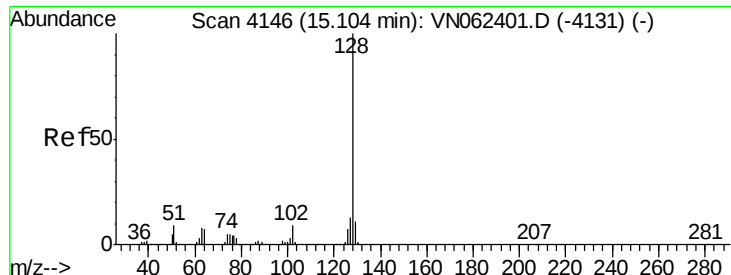
MMDadoda
7/10/2020 9:23:47 AM



#89
n-Butylbenzene
Concen: 2.853 ug/l
RT: 13.59 min Scan# 3675
Delta R.T. 0.00 min
Lab File: VN062451.D
Acq: 9 Jul 2020 12:40

Tgt Ion	Ratio	Lower	Upper
91	100		
92	44.1	25.9	77.7
134	0.0	11.6	34.8#





#95
Naphthalene
Concen: 53.916 ug/l
RT: 15.10 min Scan# 4146
Delta R.T. 0.00 min
Lab File: VN062451.D
Acq: 9 Jul 2020 12:40

Instrument :
MSVOA_N
ClientSampleId :
MW-3DL

Tgt Ion	Ratio	Resp Lower	Resp Upper
128	100		
127	13.1	10.2	15.2
129	10.4	8.6	12.8

Manual Integrations
APPROVED

MMDadoda
7/10/2020 9:23:47 AM

