

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN050719\
 Data File : VN055441.D
 Acq On : 7 May 2019 16:44
 Operator : JC/SP
 Sample : K2658-22
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 EP1-PZ-W4-5

Manual Integrations
 APPROVED

MMDadoda
 5/8/2019 10:22:16 AM

Quant Time: May 08 06:59:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N042919W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 30 07:16:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	474030	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	725675	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	588529	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	207458	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	305172	49.21	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.42%	
35) Dibromofluoromethane	7.59	113	230877	48.47	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.94%	
50) Toluene-d8	10.09	98	858191	49.90	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.80%	
62) 4-Bromofluorobenzene	12.40	95	260654	48.49	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.98%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.06	50	10007	1.391	ug/l	99
16) Acetone	3.82	43	5852	3.029	ug/l	96
17) Carbon Disulfide	4.06	76	44698	3.658	ug/l	96
29) Tetrahydrofuran	7.23	42	5325	3.365	ug/l #	65
67) Ethyl Benzene	11.51	91	57773	2.780	ug/l	94
68) m/p-Xylenes	11.63	106	3358	0.453	ug/l	95
69) o-Xylene	11.95	106	8188	1.114	ug/l	83
73) Isopropylbenzene	12.25	105	134064	5.294	ug/l	99
78) n-propylbenzene	12.59	91	239979	11.261	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	1163496	71.538	ug/l	100
83) tert-Butylbenzene	12.99	119	113247	7.355	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	2763068	189.958	ug/l	100
85) sec-Butylbenzene	13.17	105	467218	26.430	ug/l	85
86) p-Isopropyltoluene	13.29	119	68474	4.713	ug/l	99
89) n-Butylbenzene	13.61	91	51186m	4.958	ug/l	
95) Naphthalene	15.13	128	7865	4.601	ug/l #	97

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

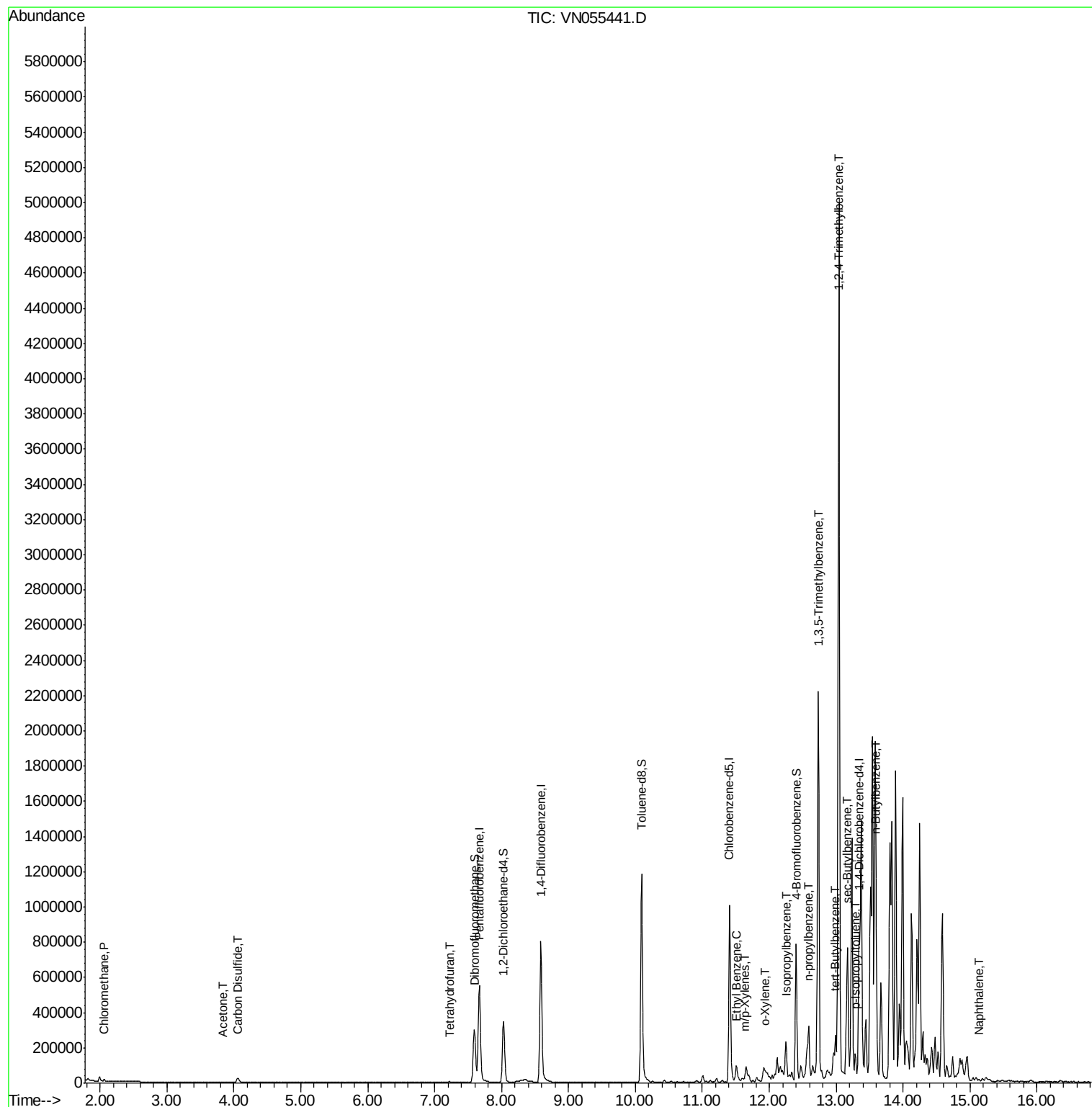
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN050719\
Data File : VN055441.D
Acq On : 7 May 2019 16:44
Operator : JC/SP
Sample : K2658-22
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 14 Sample Multiplier: 1

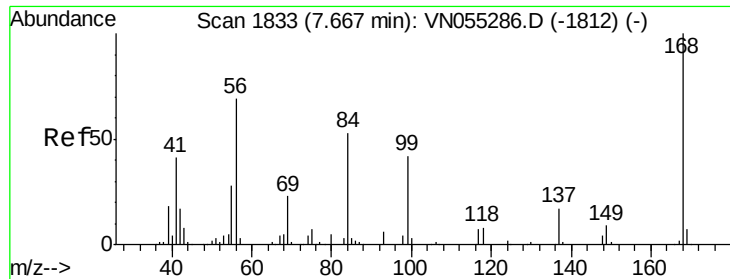
Instrument :
MSVOA_N
ClientSampleId :
EP1-PZ-W4-5

Manual Integrations
APPROVED

MMDadoda
5/8/2019 10:22:16 AM

Quant Time: May 08 06:59:40 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N042919W.M
Quant Title : SW846 8260
QLast Update : Tue Apr 30 07:16:52 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN055441.D

Acq: 7 May 2019 16:44

Instrument :

MSVOA_N

ClientSampled :

EP1-PZ-W4-5

Tot Ion:168 Resp: 474030

Ion Ratio Lower Upper

168 100

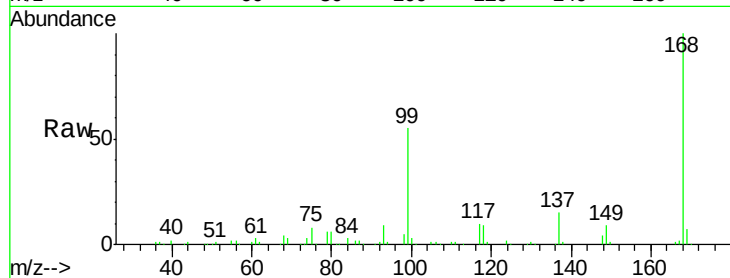
99 54.8 43.6 65.4

Manual Integrations

APPROVED

MMDadoda

5/8/2019 10:22:16 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

200000

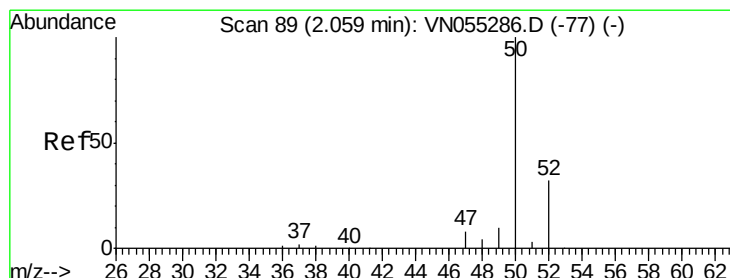
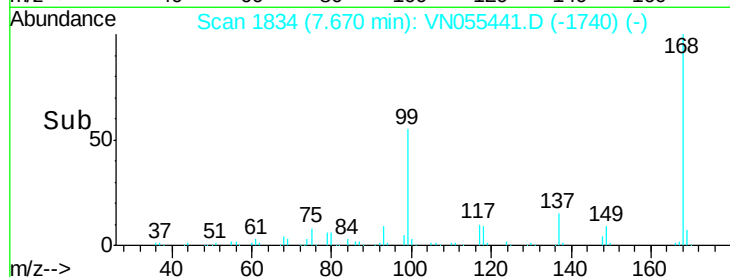
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 1.391 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN055441.D

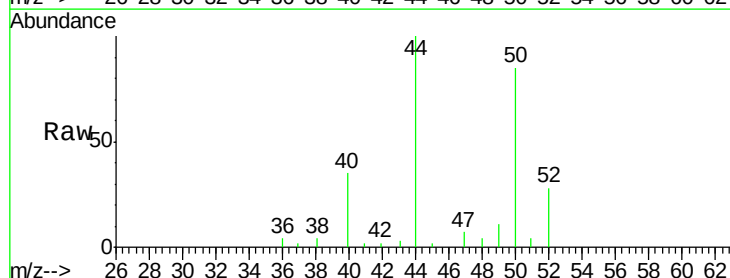
Acq: 7 May 2019 16:44

Tgt Ion: 50 Resp: 10007

Ion Ratio Lower Upper

50 100

52 32.7 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.06

8000

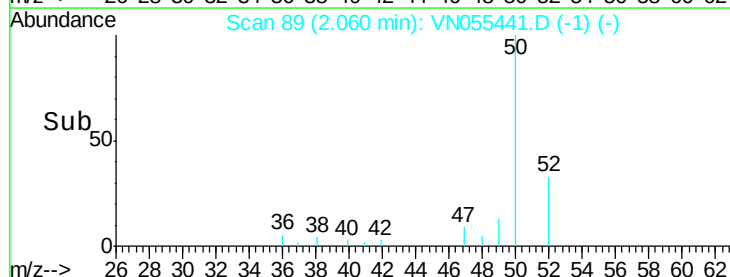
6000

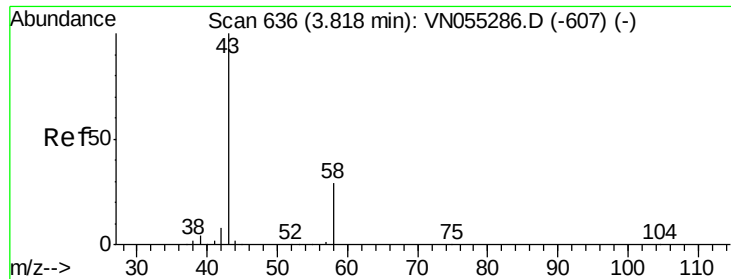
4000

2000

0

Time-->





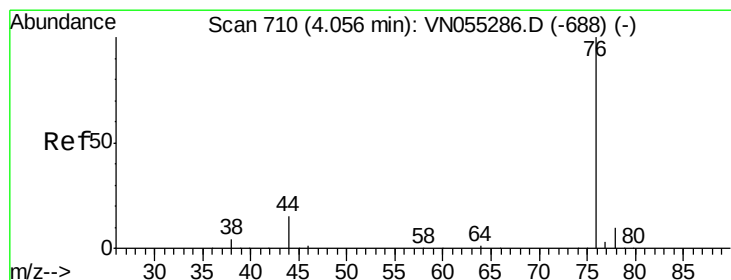
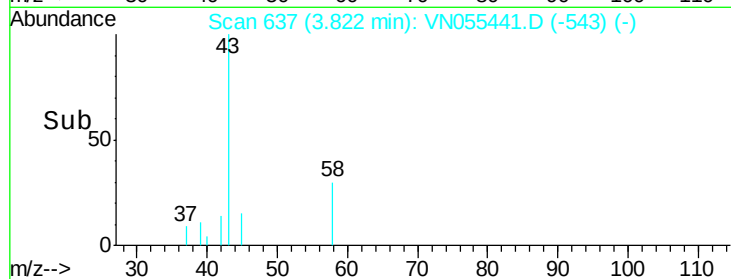
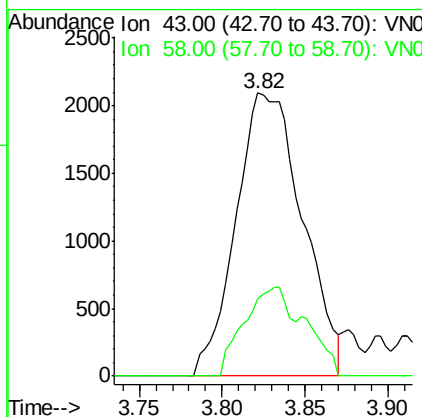
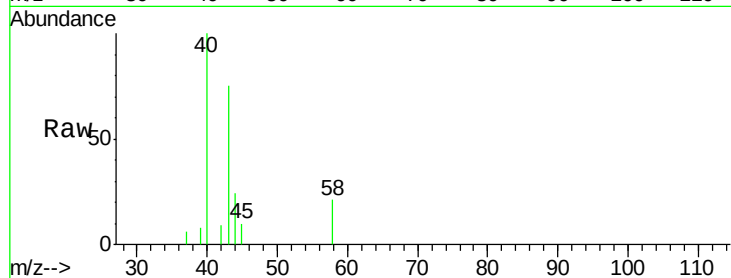
#16
Acetone
Concen: 3.029 ug/l
RT: 3.82 min Scan# 637
Delta R.T. 0.00 min
Lab File: VN055441.D
Acq: 7 May 2019 16:44

Instrument :
MSVOA_N
ClientSampleId :
EP1-PZ-W4-5

Tot Ion: 43 Resp: 5852
Ion Ratio Lower Upper
43 100
58 27.5 23.6 35.4

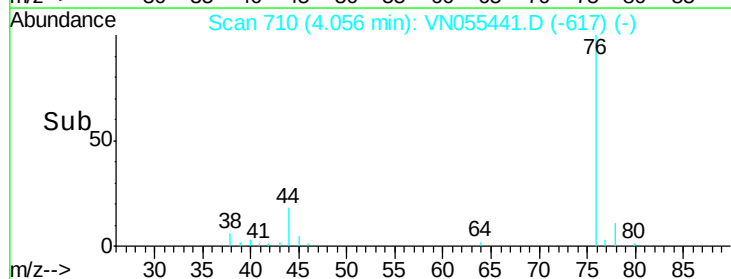
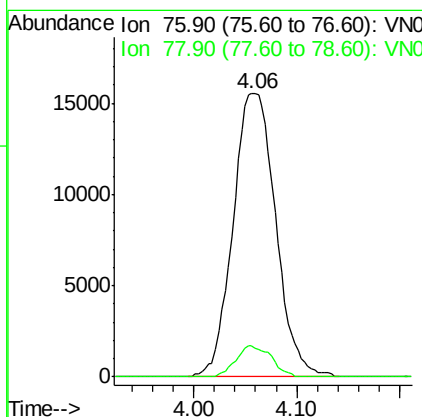
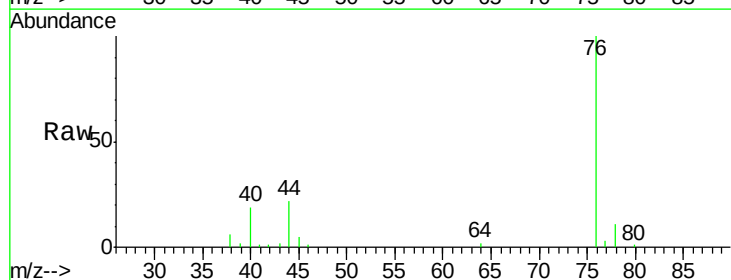
Manual Integrations
APPROVED

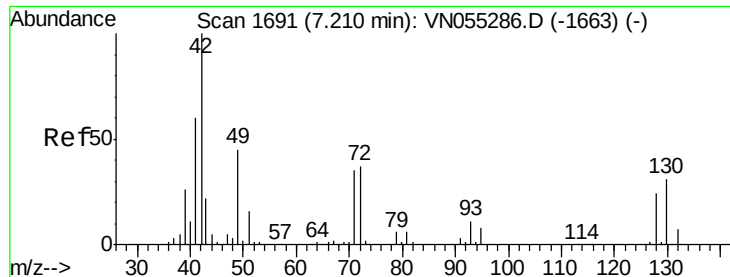
MMDadoda
5/8/2019 10:22:16 AM



#17
Carbon Disulfide
Concen: 3.658 ug/l
RT: 4.06 min Scan# 710
Delta R.T. 0.00 min
Lab File: VN055441.D
Acq: 7 May 2019 16:44

Tgt Ion: 76 Resp: 44698
Ion Ratio Lower Upper
76 100
78 10.8 7.6 11.4





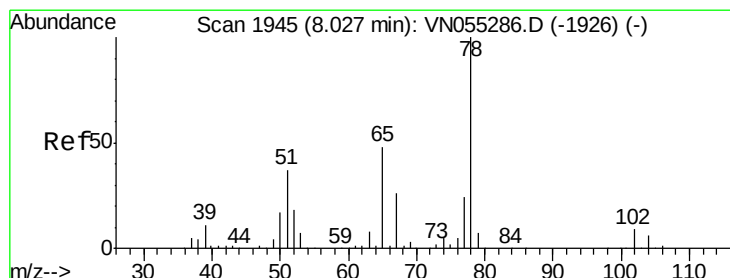
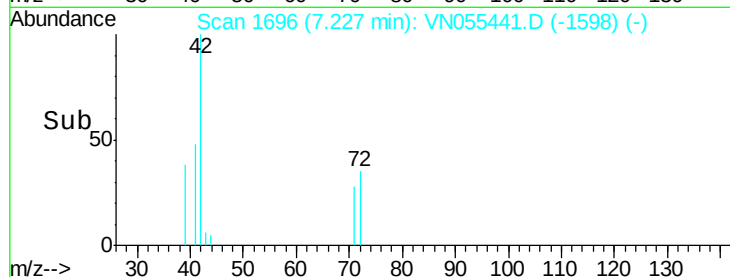
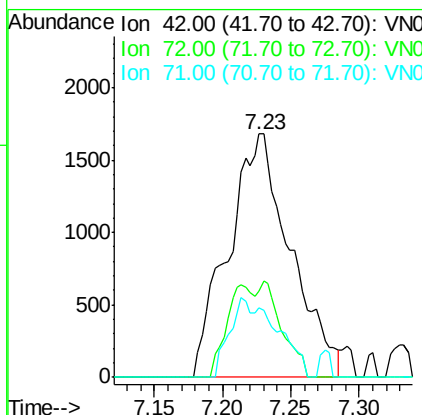
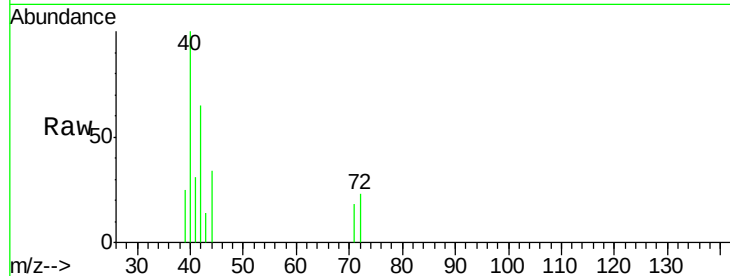
#29
Tetrahydrofuran
Concen: 3.365 ug/l
RT: 7.23 min Scan# 1696
Delta R.T. 0.02 min
Lab File: VN055441.D
Acq: 7 May 2019 16:44

Instrument :
MSVOA_N
ClientSampleId :
EP1-PZ-W4-5

Tot Ion	Ratio	Lower	Upper
42	100		
72	16.8	29.0	43.6#
71	12.6	27.1	40.7#

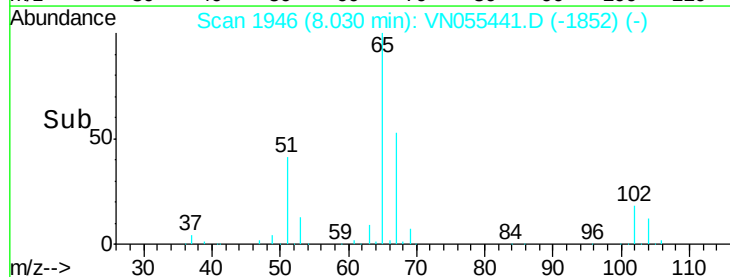
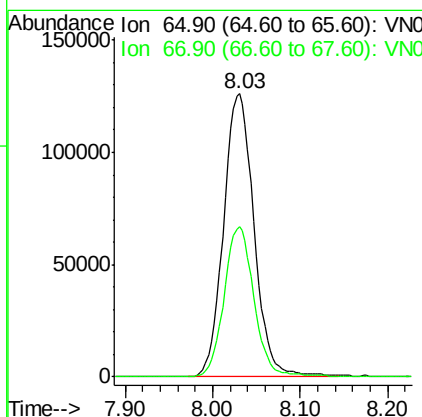
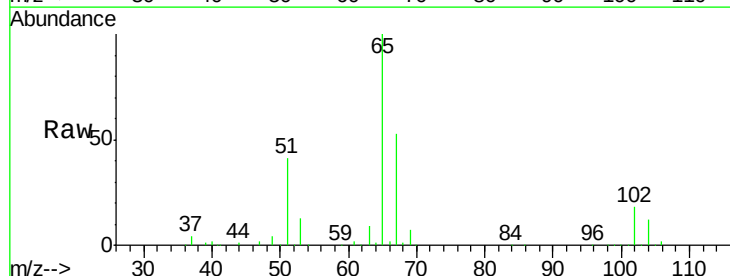
Manual Integrations
APPROVED

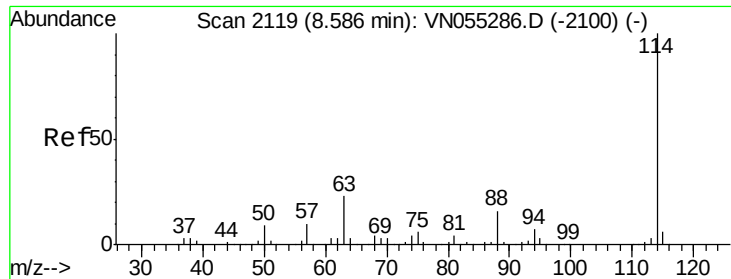
MMDadoda
5/8/2019 10:22:16 AM



#33
1,2-Dichloroethane-d4
Concen: 49.210 ug/l
RT: 8.03 min Scan# 1946
Delta R.T. 0.00 min
Lab File: VN055441.D
Acq: 7 May 2019 16:44

Tgt Ion	Ratio	Lower	Upper
65	100		
67	52.0	0.0	106.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN055441.D

Acq: 7 May 2019 16:44

Instrument :

MSVOA_N

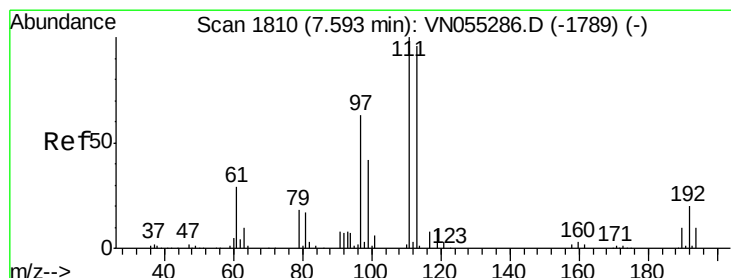
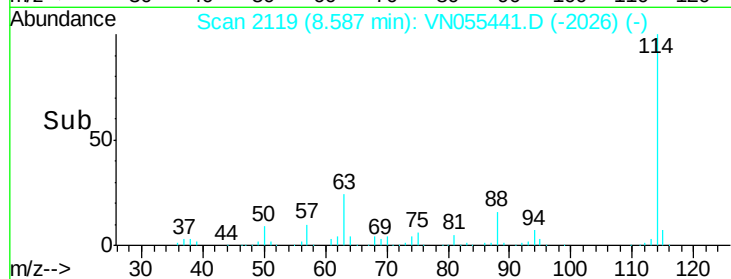
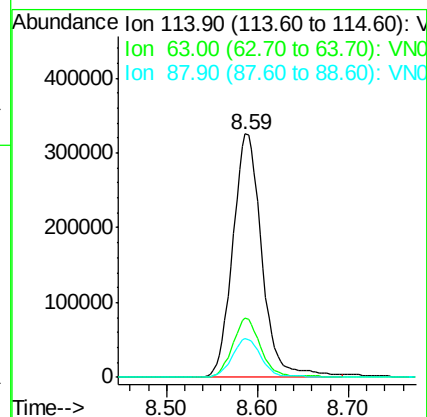
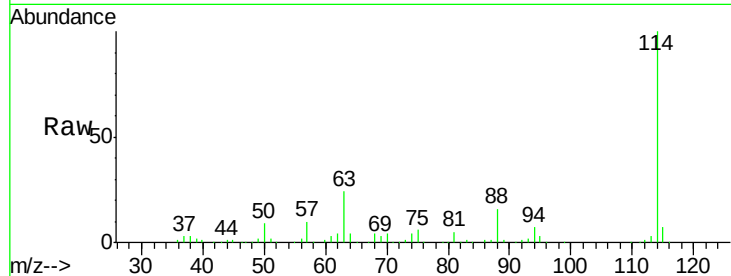
ClientSampleId :

EP1-PZ-W4-5

Tot Ion	Ratio	Lower	Upper
114	100		
63	24.1	0.0	45.2
88	16.1	0.0	31.6

Manual Integrations
APPROVED

MMDadoda
5/8/2019 10:22:16 AM



#35

Dibromofluoromethane

Concen: 48.472 ug/l

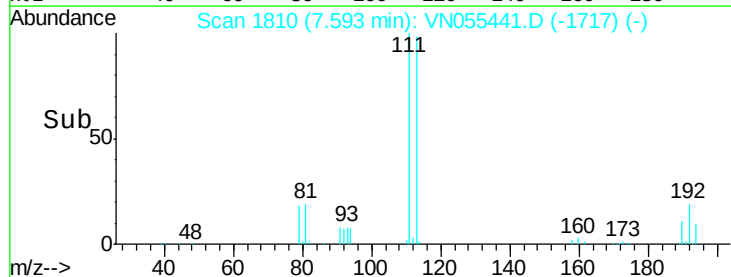
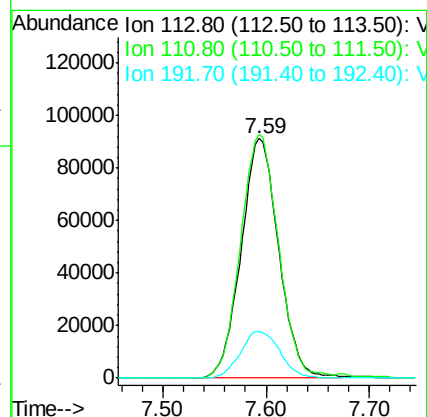
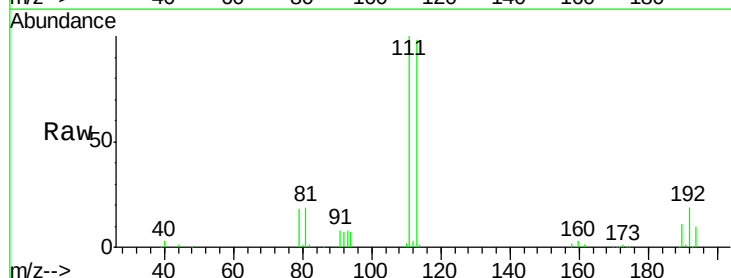
RT: 7.59 min Scan# 1810

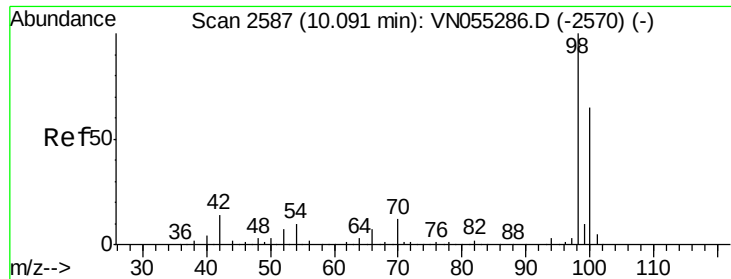
Delta R.T. 0.00 min

Lab File: VN055441.D

Acq: 7 May 2019 16:44

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.7	82.3	123.5
192	20.4	17.0	25.6





#50

Toluene-d8

Concen: 49.898 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055441.D

Acq: 7 May 2019 16:44

Tot Ion: 98 Resp: 858191

Ion Ratio Lower Upper

98 100

100 64.1 51.7 77.5

Instrument :

MSVOA_N

ClientSampled :

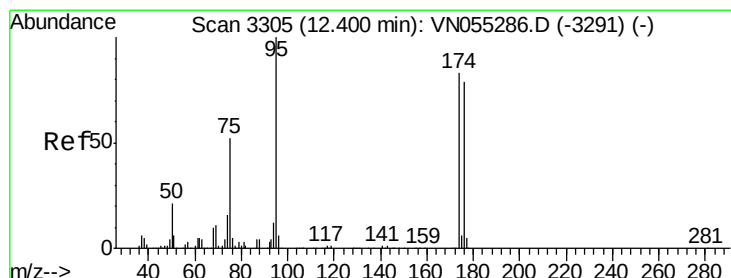
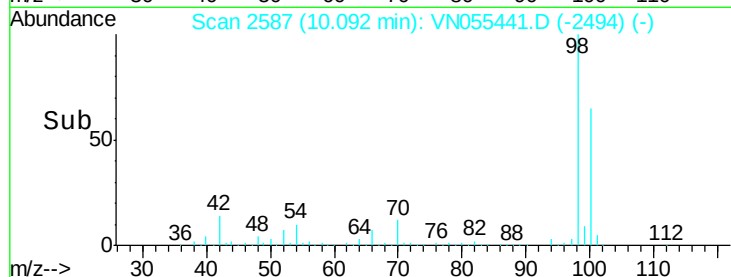
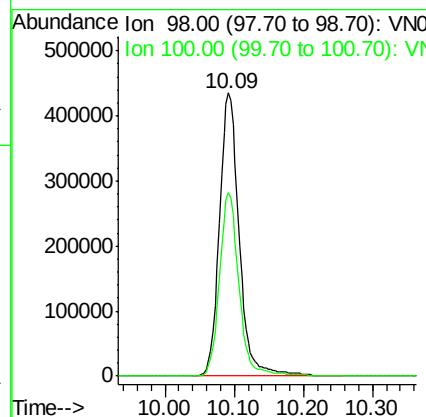
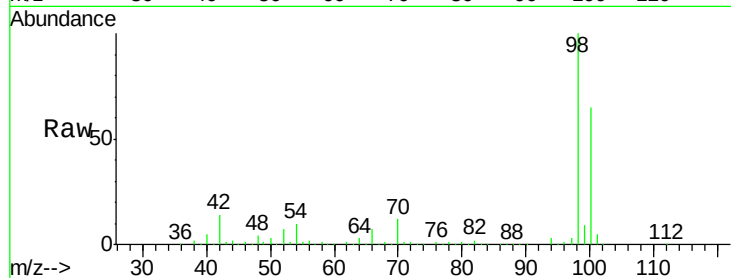
EP1-PZ-W4-5

Manual Integrations

APPROVED

MMDadoda

5/8/2019 10:22:16 AM



#62

4-Bromofluorobenzene

Concen: 48.491 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN055441.D

Acq: 7 May 2019 16:44

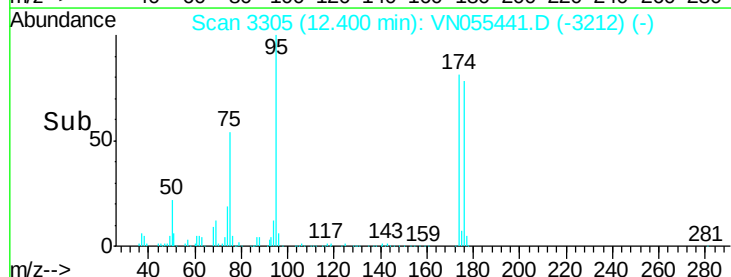
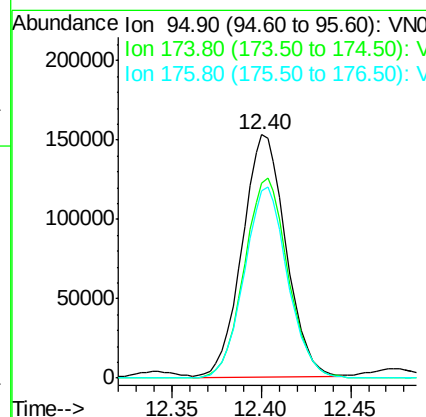
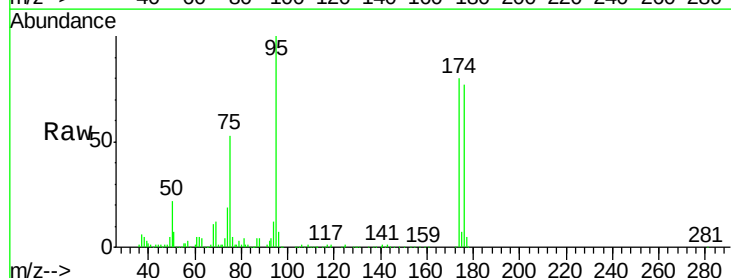
Tgt Ion: 95 Resp: 260654

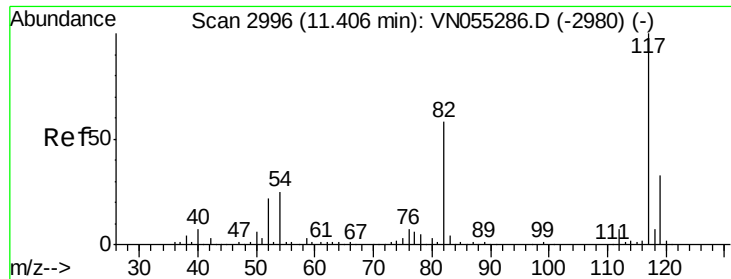
Ion Ratio Lower Upper

95 100

174 82.6 0.0 166.6

176 78.4 0.0 157.8





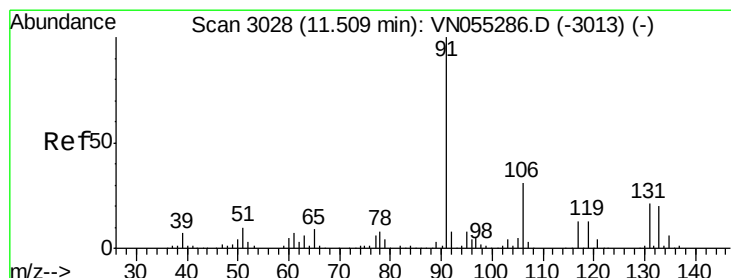
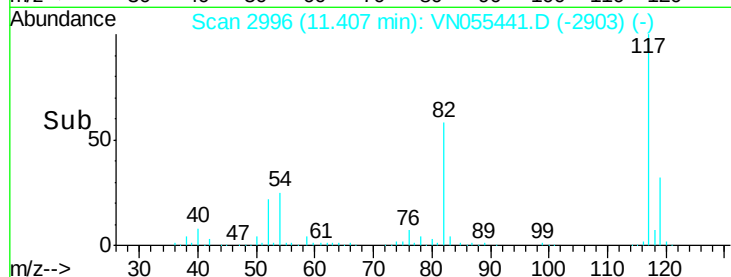
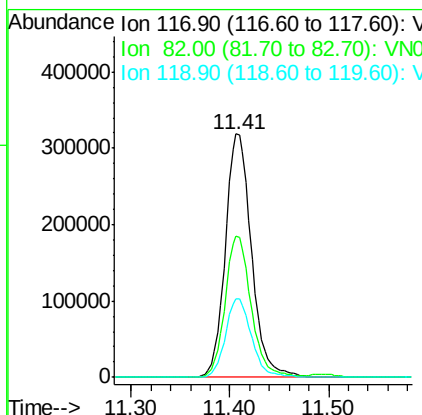
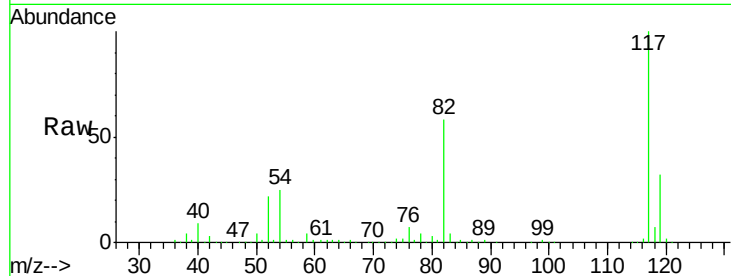
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055441.D
Acq: 7 May 2019 16:44

Instrument :
MSVOA_N
ClientSampled :
EP1-PZ-W4-5

Tot Ion	Ratio	Lower	Upper
117	100		
82	58.1	46.2	69.4
119	32.4	26.6	40.0

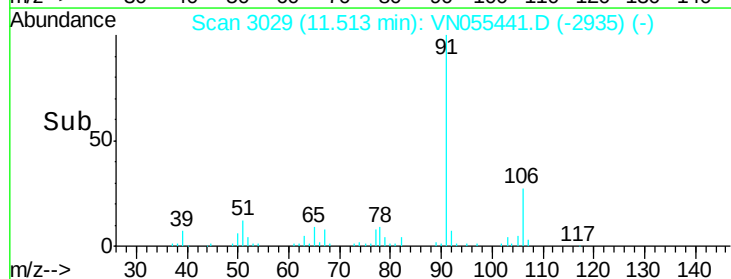
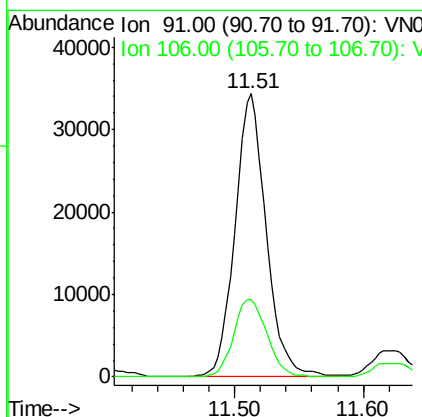
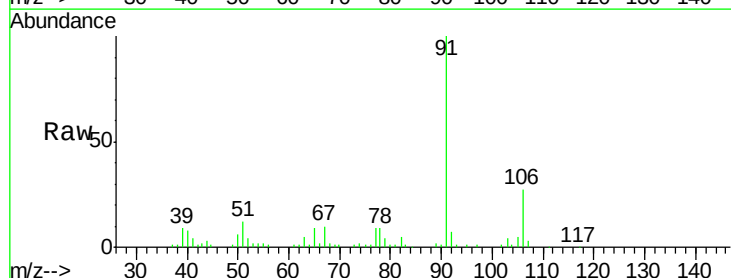
Manual Integrations
APPROVED

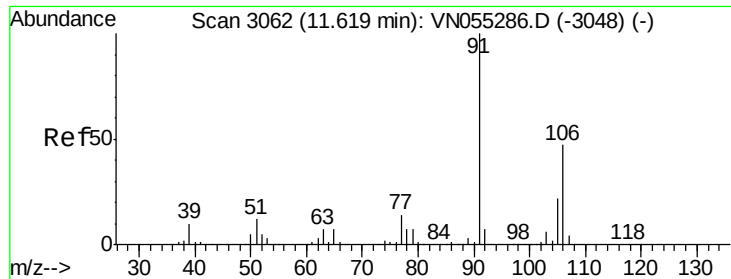
MMDadoda
5/8/2019 10:22:16 AM



#67
Ethyl Benzene
Concen: 2.780 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN055441.D
Acq: 7 May 2019 16:44

Tgt Ion	Ratio	Lower	Upper
91	100		
106	27.3	24.6	36.8





#68

m/p-Xylenes

Concen: 0.453 ug/l

RT: 11.63 min Scan# 3064

Delta R.T. 0.01 min

Lab File: VN055441.D

Acq: 7 May 2019 16:44

Instrument :

MSVOA_N

ClientSampled :

EP1-PZ-W4-5

Tot Ion:106 Resp: 3358

Ion Ratio Lower Upper

106 100

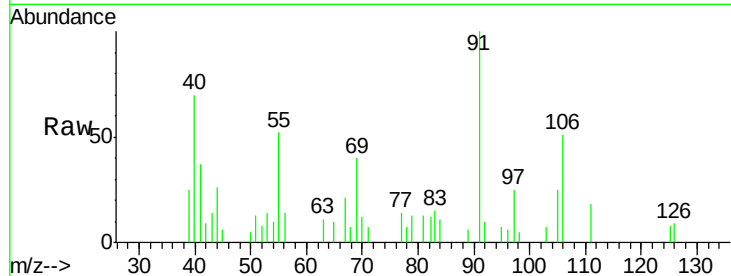
91 219.9 169.5 254.3

Manual Integrations

APPROVED

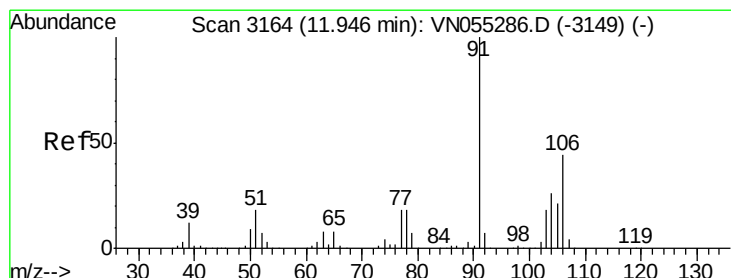
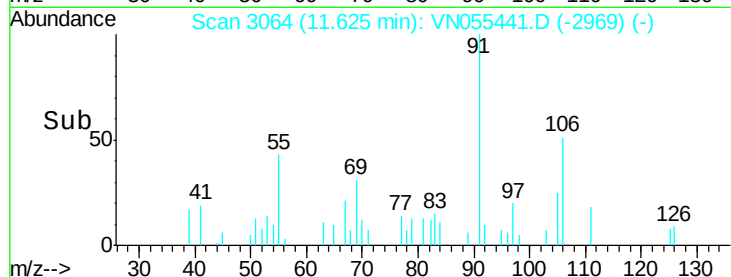
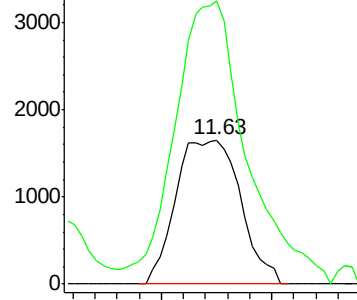
MMDadoda

5/8/2019 10:22:16 AM



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0



#69

o-Xylene

Concen: 1.114 ug/l

RT: 11.95 min Scan# 3164

Delta R.T. 0.00 min

Lab File: VN055441.D

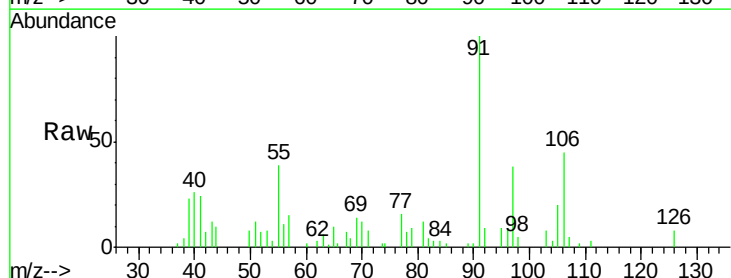
Acq: 7 May 2019 16:44

Tgt Ion:106 Resp: 8188

Ion Ratio Lower Upper

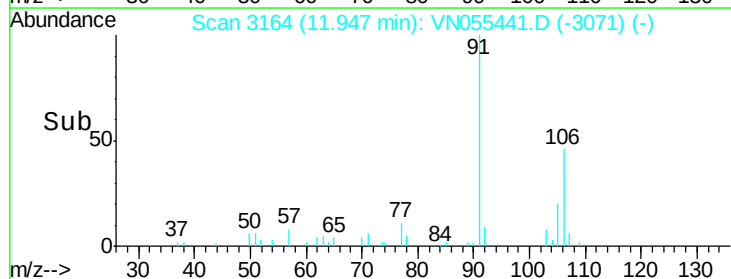
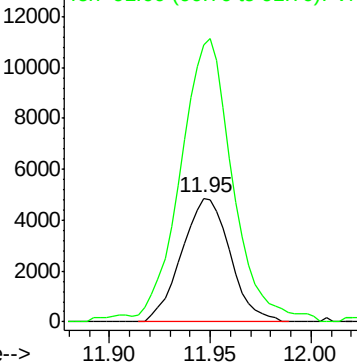
106 100

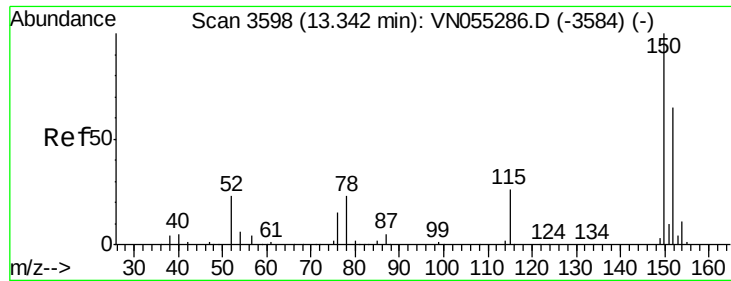
91 249.9 111.5 334.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN055441.D

Acq: 7 May 2019 16:44

Instrument :

MSVOA_N

ClientSampled :

EP1-PZ-W4-5

Tot Ion:152 Resp: 207458

Ion Ratio Lower Upper

152 100

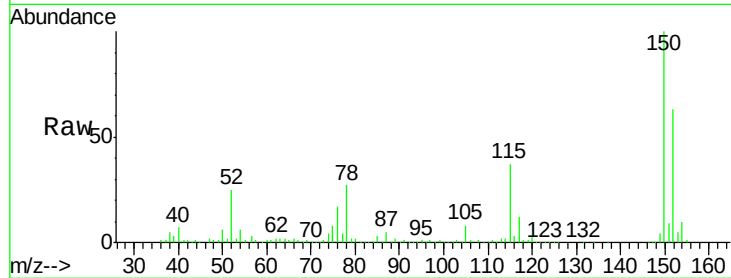
115 73.3 29.0 87.0

150 155.4 0.0 345.6

Manual Integrations
APPROVED

MMDadoda

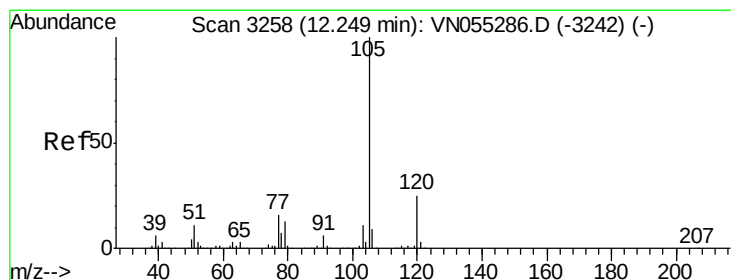
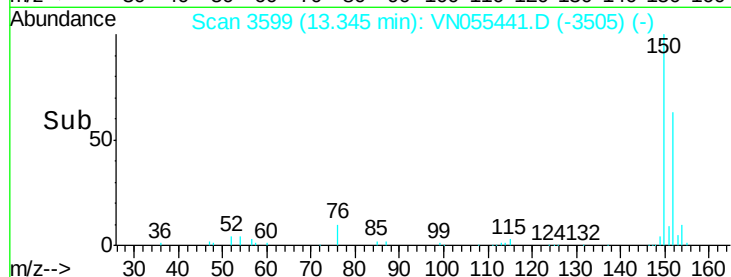
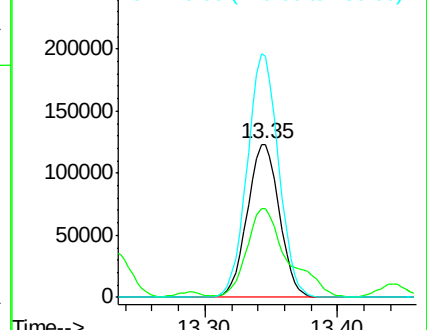
5/8/2019 10:22:16 AM



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: 5.294 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN055441.D

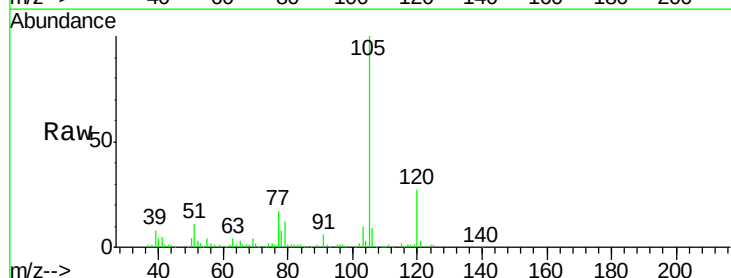
Acq: 7 May 2019 16:44

Tgt Ion:105 Resp: 134064

Ion Ratio Lower Upper

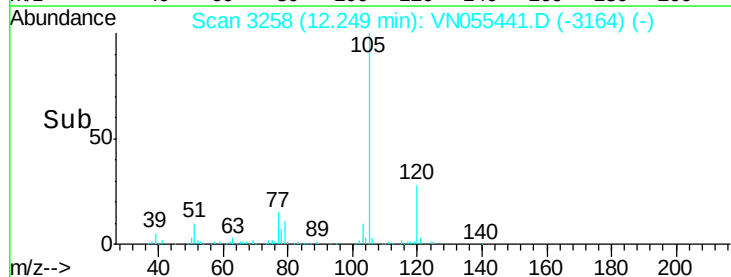
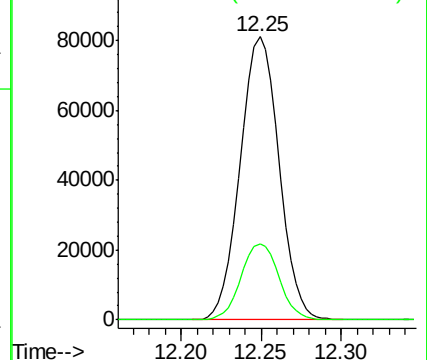
105 100

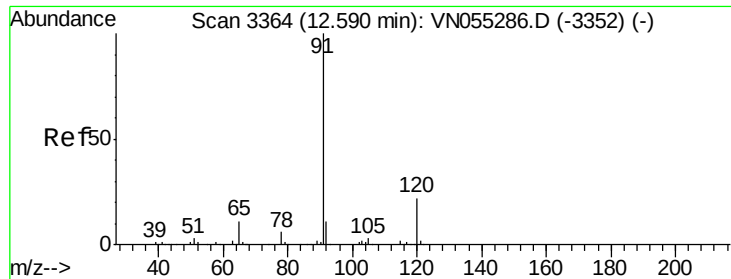
120 26.4 12.9 38.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#78

n-propylbenzene

Concen: 11.261 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN055441.D

Acq: 7 May 2019 16:44

Instrument :

MSVOA_N

ClientSampled :

EP1-PZ-W4-5

Tot Ion: 91 Resp: 239979

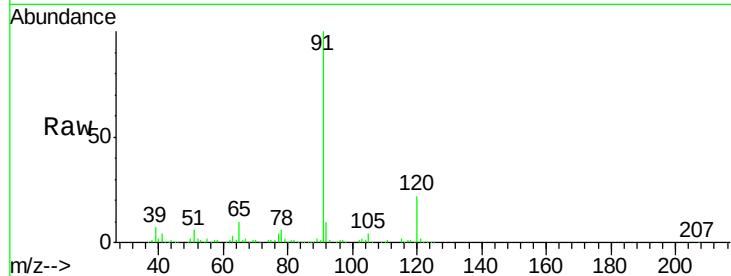
Ion Ratio Lower Upper

91 100

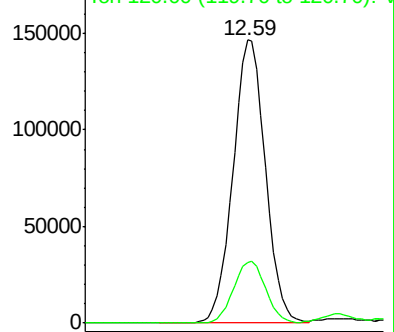
120 21.9 11.0 33.0

Manual Integrations
APPROVED

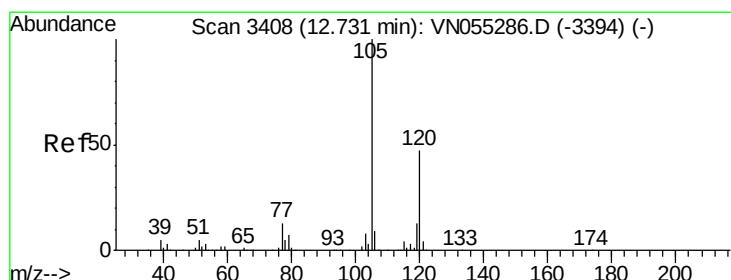
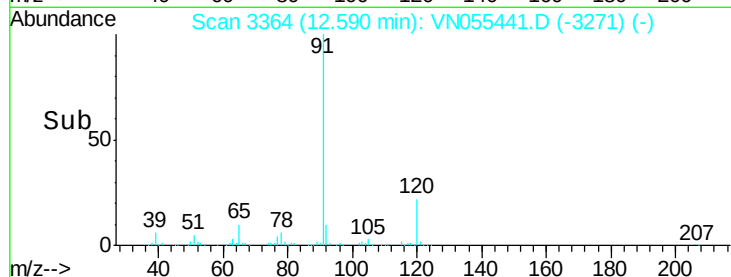
MMDadoda
5/8/2019 10:22:16 AM



Abundance Ion 91.00 (90.70 to 91.70): VN055441.D (-3271) (-)



Time-->



#80

1,3,5-Trimethylbenzene

Concen: 71.538 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN055441.D

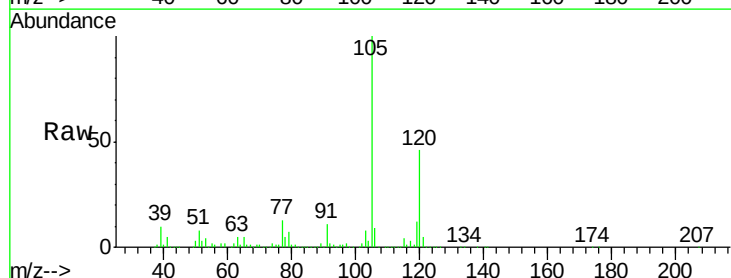
Acq: 7 May 2019 16:44

Tgt Ion:105 Resp: 1163496

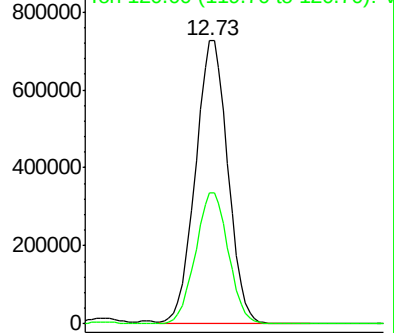
Ion Ratio Lower Upper

105 100

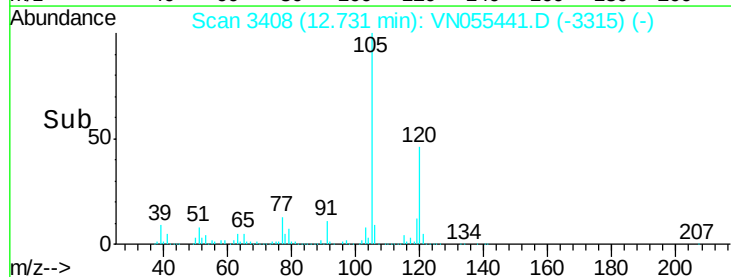
120 47.0 23.4 70.0

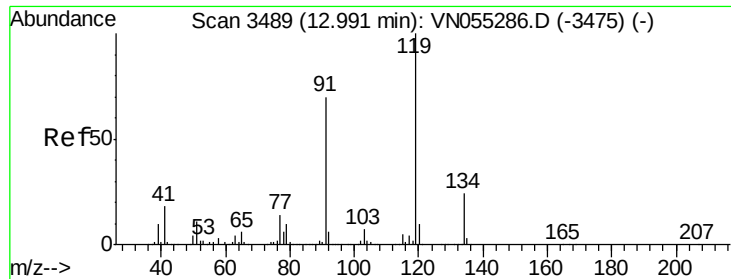


Abundance Ion 105.00 (104.70 to 105.70): VN055441.D (-3315) (-)



Time-->





#83

tert-Butylbenzene

Concen: 7.355 ug/l

RT: 12.99 min Scan# 3489

Delta R.T. 0.00 min

Lab File: VN055441.D

Acq: 7 May 2019 16:44

Instrument :

MSVOA_N

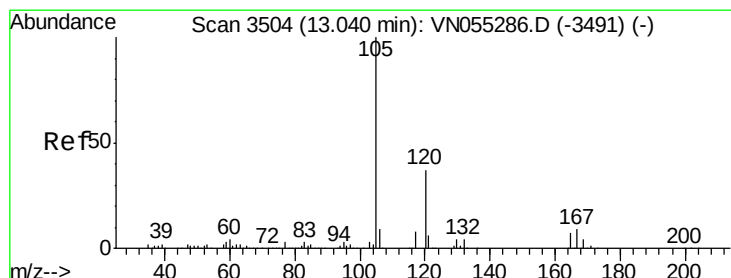
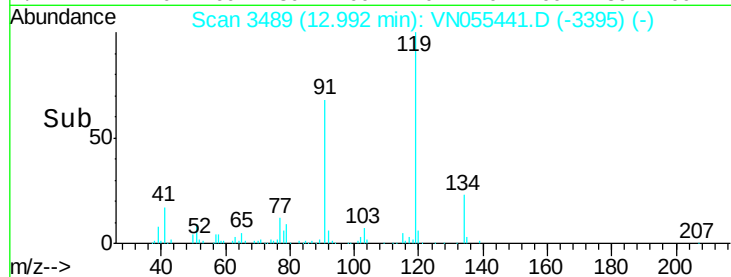
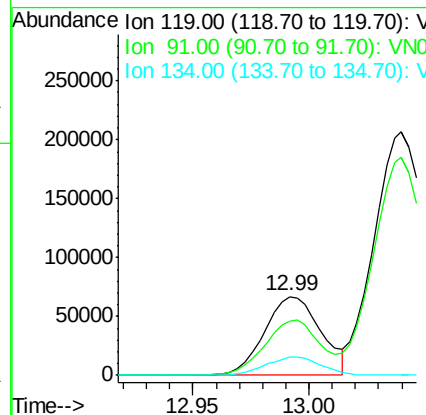
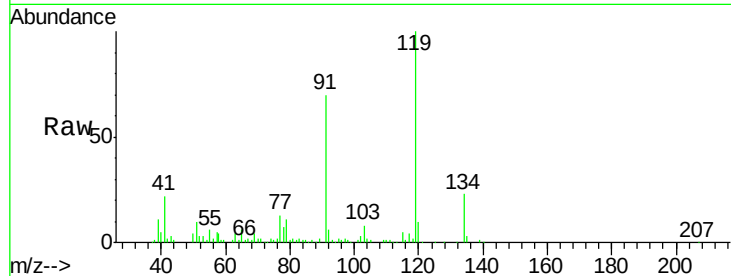
ClientSampled :

EP1-PZ-W4-5

Tot Ion	Ratio	Lower	Upper
119	100		
91	67.9	34.3	102.9
134	23.3	13.1	39.3

Manual Integrations
APPROVED

MMDadoda
5/8/2019 10:22:16 AM



#84

1,2,4-Trimethylbenzene

Concen: 189.958 ug/l

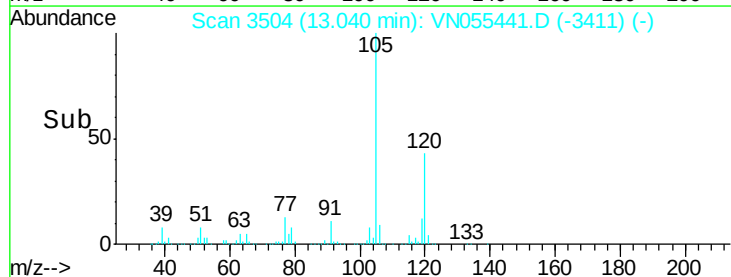
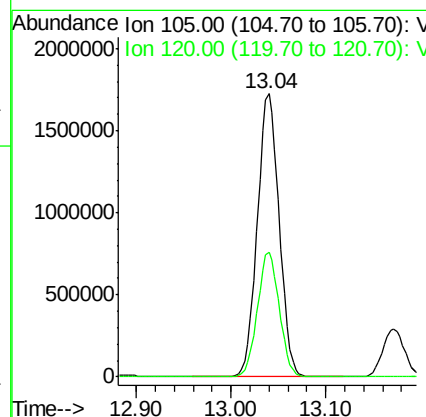
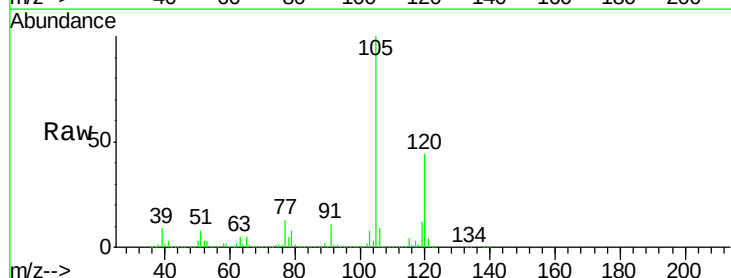
RT: 13.04 min Scan# 3504

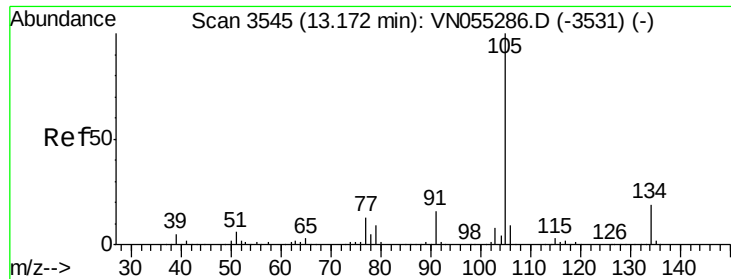
Delta R.T. 0.00 min

Lab File: VN055441.D

Acq: 7 May 2019 16:44

Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.0	22.1	66.5





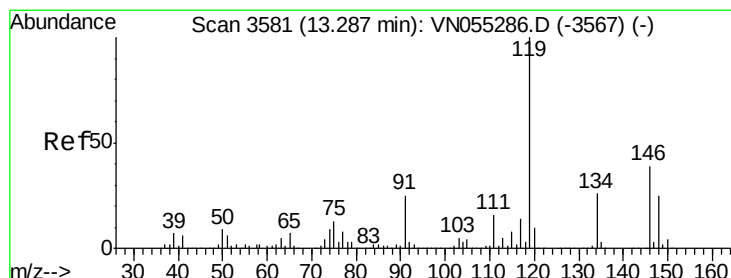
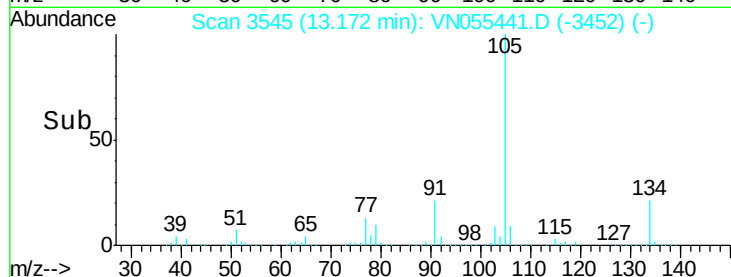
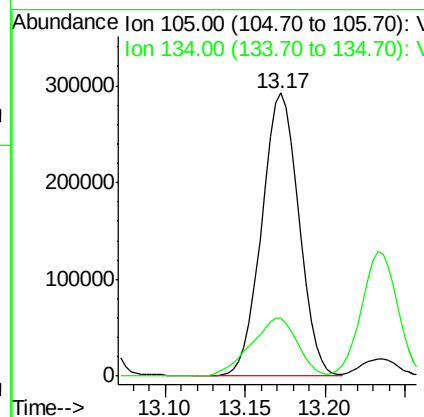
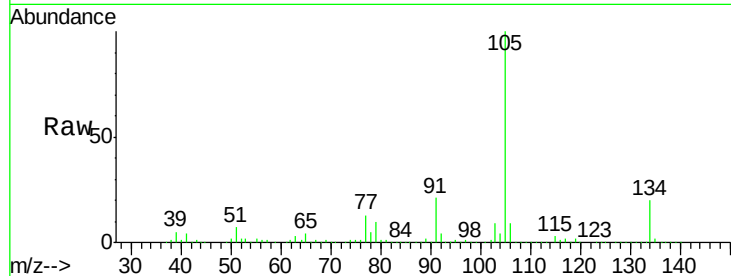
#85
 sec-Butylbenzene
 Concen: 26.430 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN055441.D
 Acq: 7 May 2019 16:44

Instrument :
 MSVOA_N
 ClientSampled :
 EP1-PZ-W4-5

Tot Ion	Ratio	Lower	Upper
105	100		
134	25.8	9.6	28.8

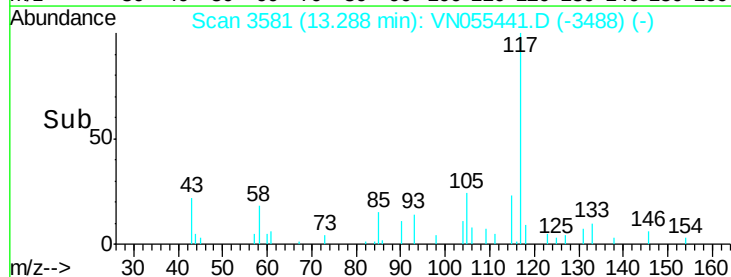
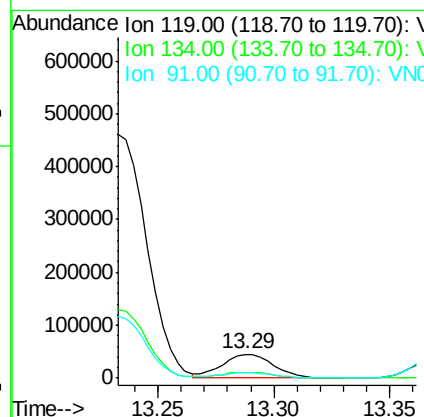
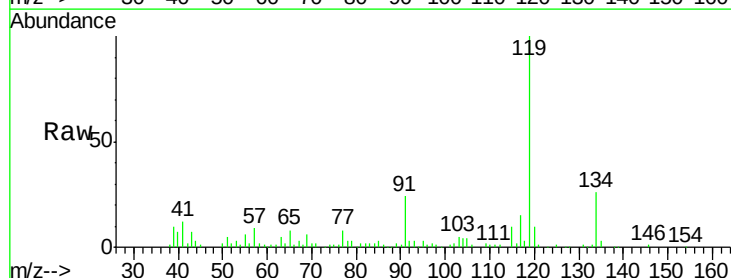
Manual Integrations
 APPROVED

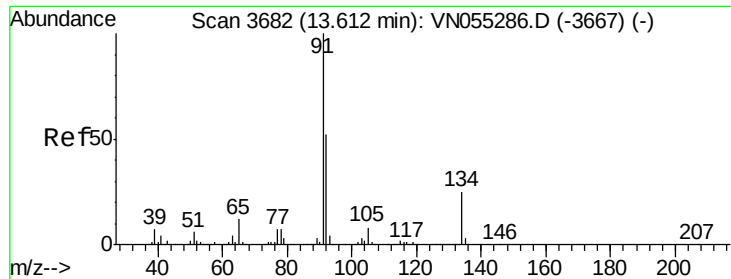
MMDadoda
 5/8/2019 10:22:16 AM



#86
 p-Isopropyltoluene
 Concen: 4.713 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN055441.D
 Acq: 7 May 2019 16:44

Tgt Ion	Ratio	Lower	Upper
119	100		
134	25.8	13.0	38.9
91	23.1	12.2	36.6





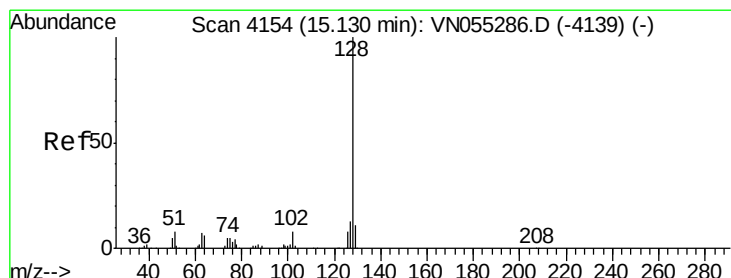
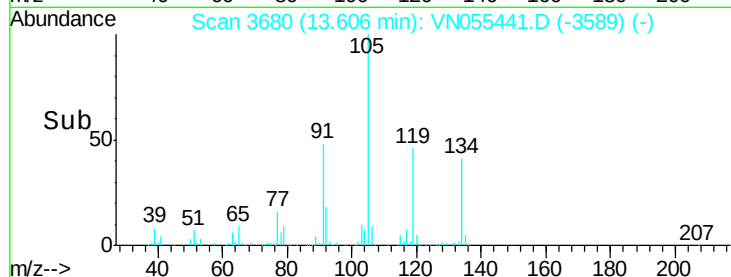
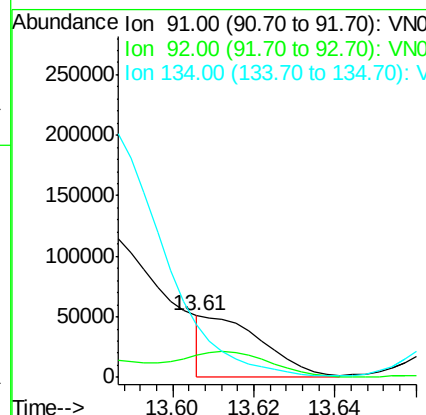
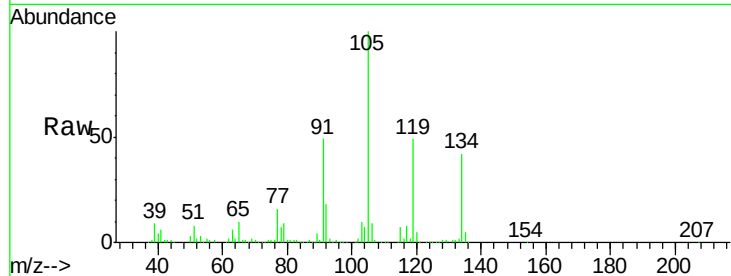
#89
n-Butylbenzene
Concen: 4.958 ug/l m
RT: 13.61 min Scan# 3680
Delta R.T. -0.01 min
Lab File: VN055441.D
Acq: 7 May 2019 16:44

Instrument :
MSVOA_N
ClientSampled :
EP1-PZ-W4-5

Tot Ion	Ratio	Lower	Upper
91	100		
92	39.6	26.1	78.3
134	722.2	12.4	37.4#

Manual Integrations
APPROVED

MMDadoda
5/8/2019 10:22:16 AM



#95
Naphthalene
Concen: 4.601 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. 0.00 min
Lab File: VN055441.D
Acq: 7 May 2019 16:44

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.9	10.7	16.1
129	13.0	8.6	13.0#

