

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN050219\
 Data File : VN055348.D
 Acq On : 2 May 2019 14:14
 Operator : JC/SP
 Sample : K2658-14
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 EP1-PZ-E3-4

Manual Integrations
 APPROVED

MMDadoda
 5/3/2019 1:09:44 PM

Quant Time: May 03 03:50:02 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	344246	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	595538	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	572416	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	249288	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	240331	53.37	ug/l	0.00
Spiked Amount 50.000			Recovery	=	106.74%	
35) Dibromofluoromethane	7.59	113	190129	48.64	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.28%	
50) Toluene-d8	10.09	98	750427	53.17	ug/l	0.00
Spiked Amount 50.000			Recovery	=	106.34%	
62) 4-Bromofluorobenzene	12.40	95	277631	62.94	ug/l	0.00
Spiked Amount 50.000			Recovery	=	125.88%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.06	50	19671	3.766	ug/l	95
11) Tert butyl alcohol	4.79	59	12476m	48.387	ug/l	
16) Acetone	3.82	43	35470	25.277	ug/l	97
27) cis-1,2-Dichloroethene	6.84	96	3410m	0.833	ug/l	
39) Methylcyclohexane	9.09	83	31686	5.224	ug/l	96
40) Benzene	8.04	78	32945	1.959	ug/l	98
44) Trichloroethene	8.83	130	3909	0.912	ug/l	86
52) Toluene	10.16	92	4910	0.509	ug/l	90
64) Tetrachloroethene	10.63	164	3558	0.760	ug/l #	79
67) Ethyl Benzene	11.51	91	2985072	147.706	ug/l	98
68) m/p-Xylenes	11.62	106	2967359	411.351	ug/l	100
69) o-Xylene	11.95	106	776283	108.572	ug/l	100
73) Isopropylbenzene	12.25	105	2962628	156.066	ug/l	100
78) n-propylbenzene	12.59	91	6187517	241.633	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	5104354	261.181	ug/l	99
83) tert-Butylbenzene	12.99	119	252763	16.311	ug/l	97
84) 1,2,4-Trimethylbenzene	13.03	105	19596803m	1121.191	ug/l	
85) sec-Butylbenzene	13.17	105	1220620	57.463	ug/l #	76
86) p-Isopropyltoluene	13.29	119	578649	33.143	ug/l	100
89) n-Butylbenzene	13.61	91	760007m	61.261	ug/l	
95) Naphthalene	15.13	128	807739	112.140	ug/l	100

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

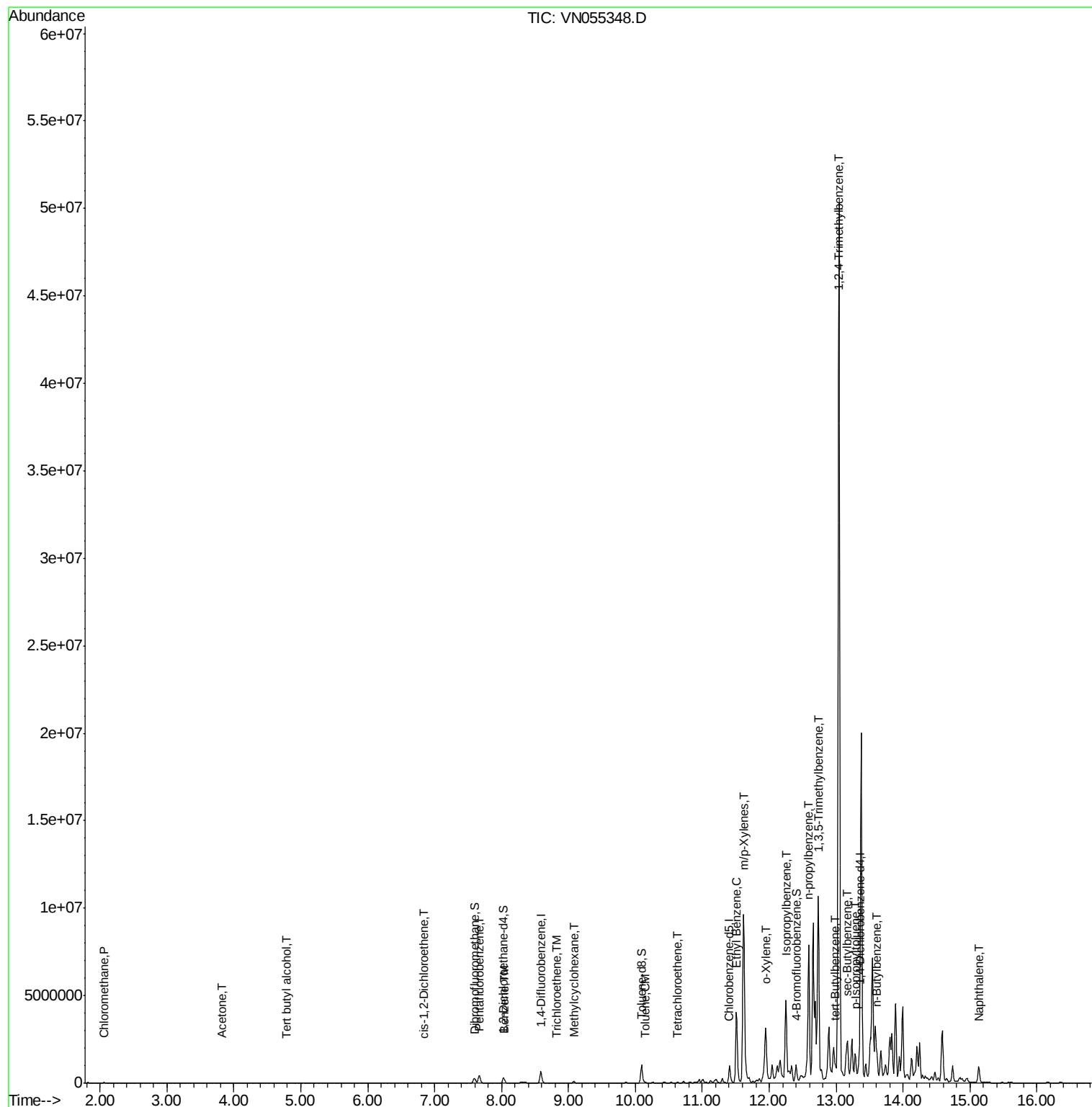
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_N\DATA\VN050219\
Data File : VN055348.D
Acq On : 2 May 2019 14:14
Operator : JC/SP
Sample : K2658-14
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

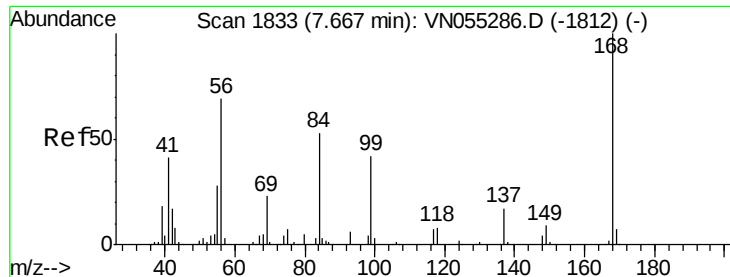
Instrument :
MSVOA_N
ClientSampleId :
EP1-PZ-E3-4

Manual Integrations
APPROVED

MMDadoda
5/3/2019 1:09:44 PM

Quant Time: May 03 03:50:02 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# 1833

Delta R.T. 0.00 min

Lab File: VN055348.D

Acq: 2 May 2019 14:14

Instrument :

MSVOA_N

ClientSampleId :

EP1-PZ-E3-4

Tgt Ion:168 Resp: 344246

Ion Ratio Lower Upper

168 100

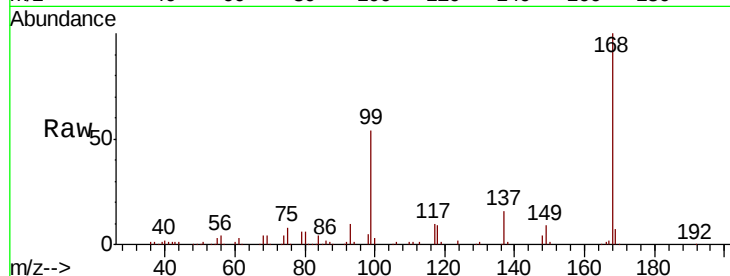
99 54.3 43.6 65.4

Manual Integrations

APPROVED

MMDadoda

5/3/2019 1:09:44 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

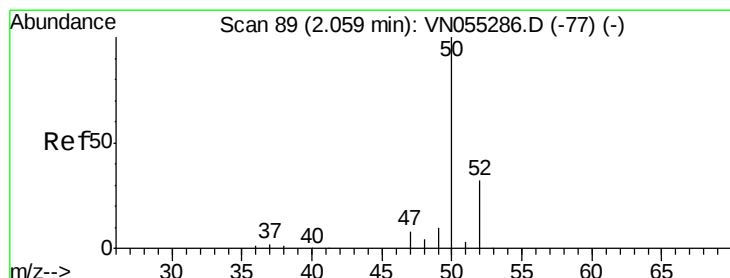
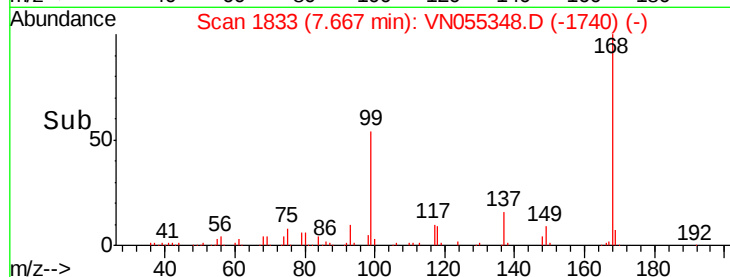
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 3.766 ug/l

RT: 2.06 min Scan# 88

Delta R.T. -0.00 min

Lab File: VN055348.D

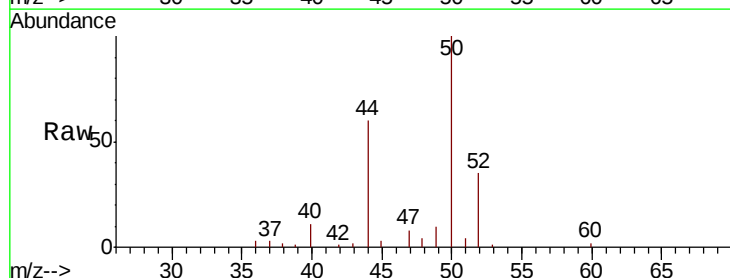
Acq: 2 May 2019 14:14

Tgt Ion: 50 Resp: 19671

Ion Ratio Lower Upper

50 100

52 34.8 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.06

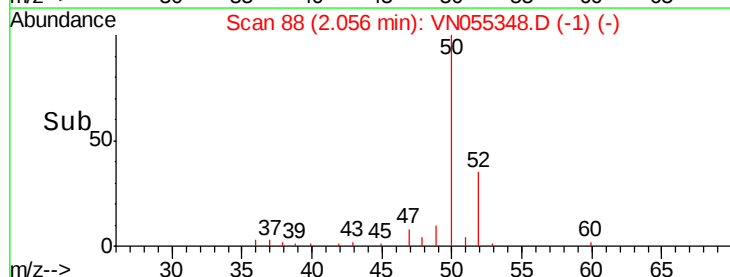
15000

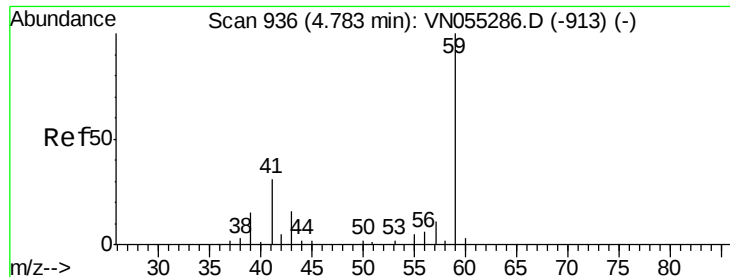
10000

5000

0

Time-->





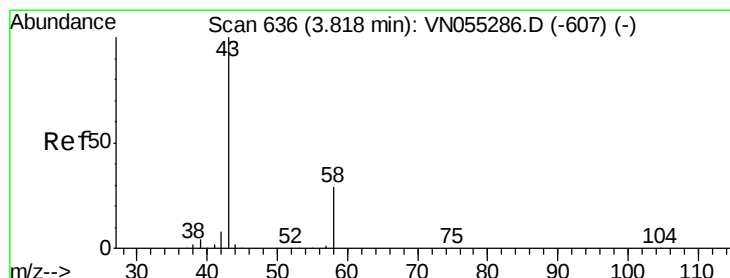
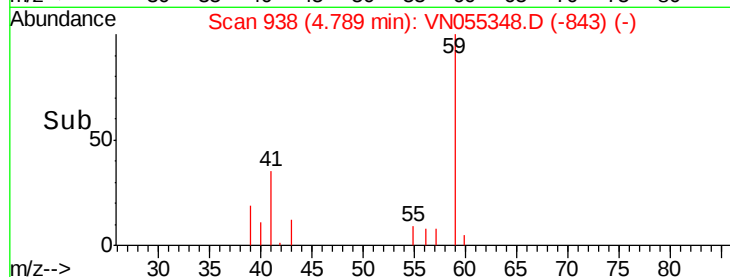
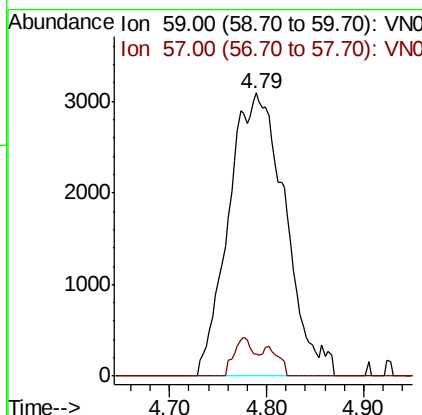
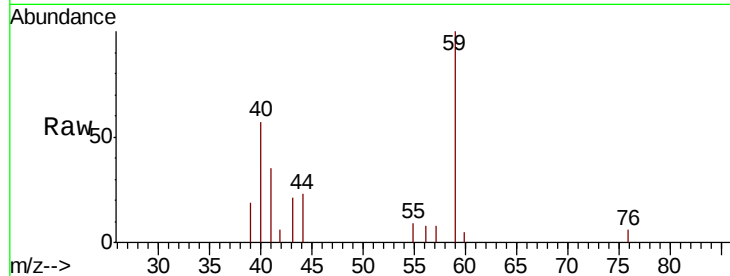
#11
Tert butyl alcohol
Concen: 48.387 ug/l m
RT: 4.79 min Scan# 938
Delta R.T. 0.01 min
Lab File: VN055348.D
Acq: 2 May 2019 14:14

Instrument :
MSVOA_N
ClientSampleId :
EP1-PZ-E3-4

Tgt Ion: 59 Resp: 12476
Ion Ratio Lower Upper
59 100
57 4.9 8.2 12.2#

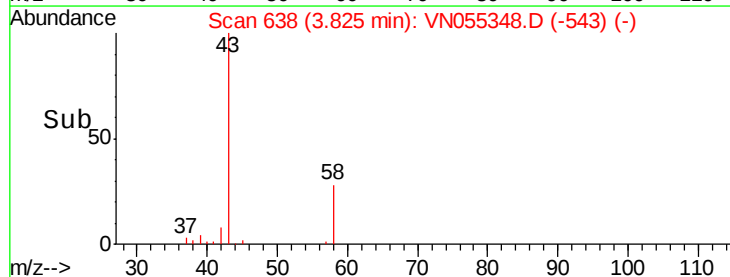
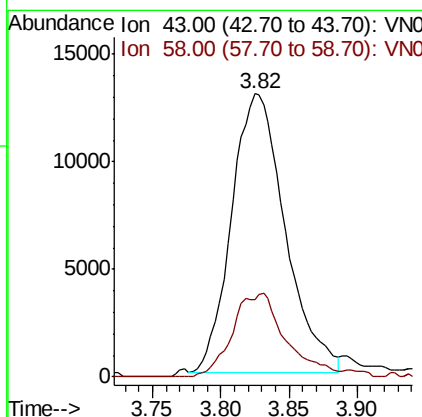
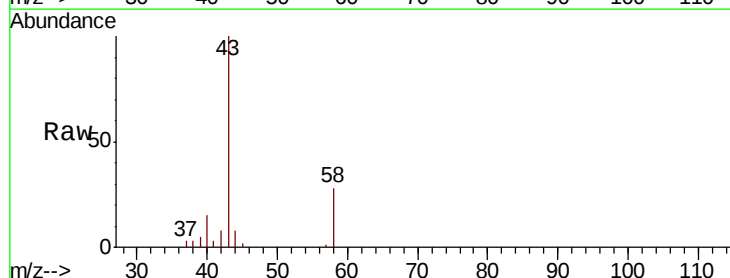
Manual Integrations
APPROVED

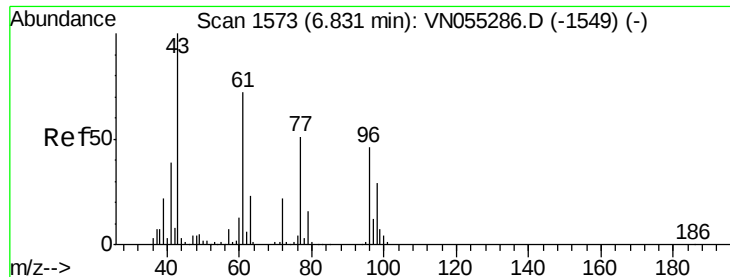
MMDadoda
5/3/2019 1:09:44 PM



#16
Acetone
Concen: 25.277 ug/l
RT: 3.82 min Scan# 638
Delta R.T. 0.01 min
Lab File: VN055348.D
Acq: 2 May 2019 14:14

Tgt Ion: 43 Resp: 35470
Ion Ratio Lower Upper
43 100
58 27.9 23.6 35.4





#27

cis-1,2-Dichloroethene

Concen: 0.833 ug/l m

RT: 6.84 min Scan# 1576

Delta R.T. 0.01 min

Lab File: VN055348.D

Acq: 2 May 2019 14:14

Instrument :

MSVOA_N

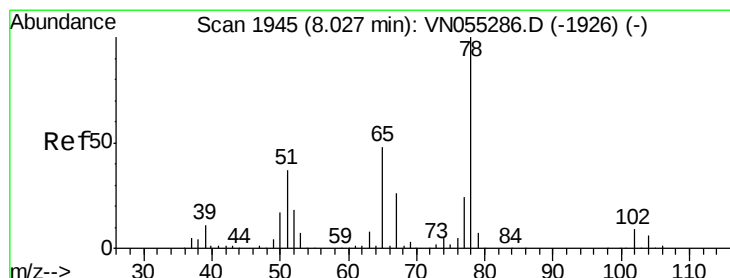
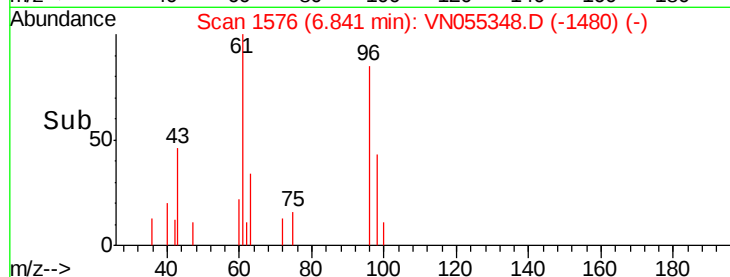
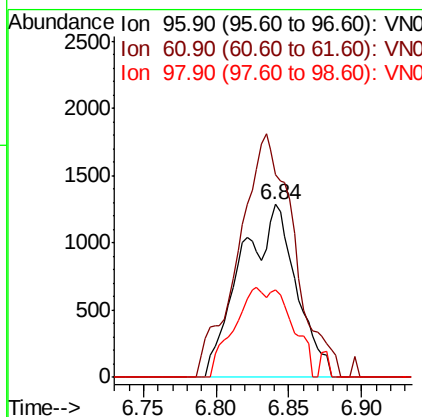
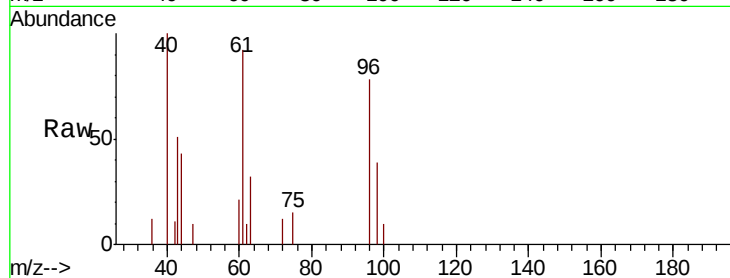
ClientSampleId :

EP1-PZ-E3-4

Tgt Ion:	96	Resp:	3410
Ion	Ratio	Lower	Upper
96	100		
61	141.1	0.0	316.2
98	30.4	0.0	126.6

Manual Integrations
APPROVED

MMDadoda
5/3/2019 1:09:44 PM



#33

1,2-Dichloroethane-d4

Concen: 53.365 ug/l

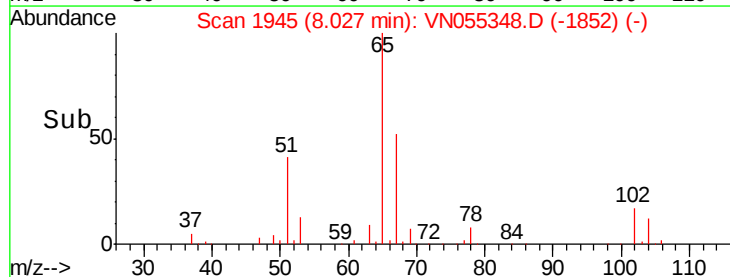
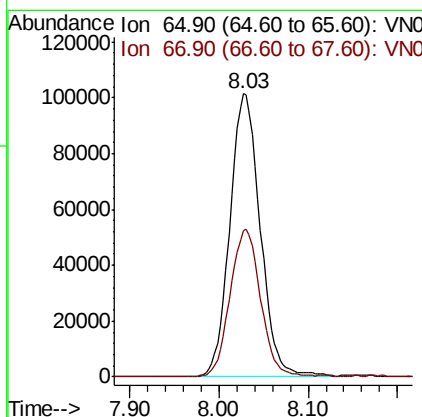
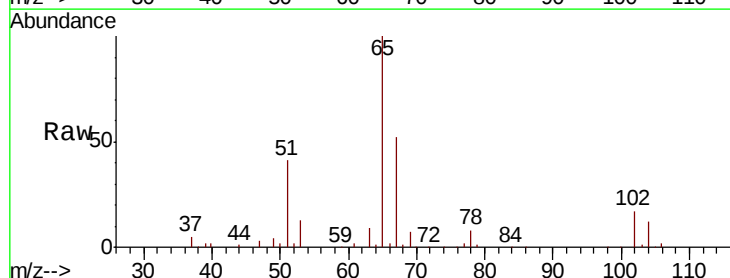
RT: 8.03 min Scan# 1945

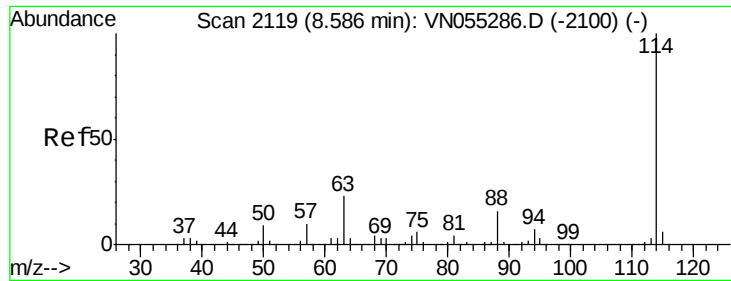
Delta R.T. 0.00 min

Lab File: VN055348.D

Acq: 2 May 2019 14:14

Tgt Ion:	65	Resp:	240331
Ion	Ratio	Lower	Upper
65	100		
67	52.1	0.0	106.8





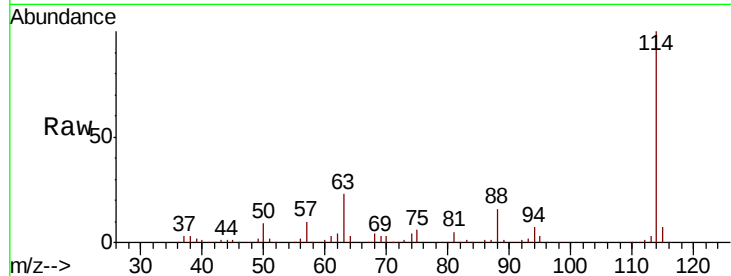
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.59 min Scan# 2119
Delta R.T. 0.00 min
Lab File: VN055348.D
Acq: 2 May 2019 14:14

Instrument :
MSVOA_N
ClientSampleId :
EP1-PZ-E3-4

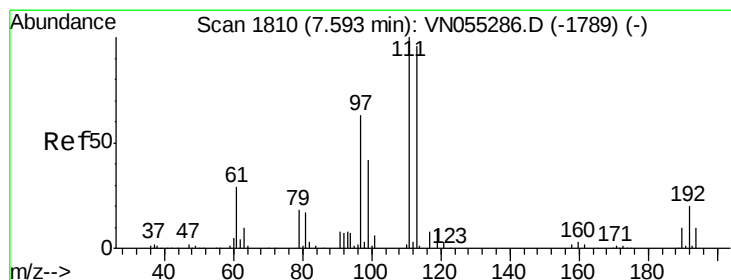
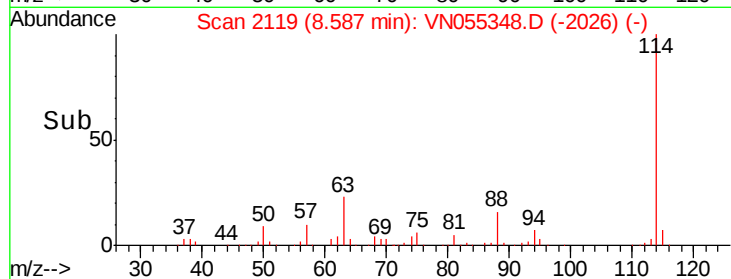
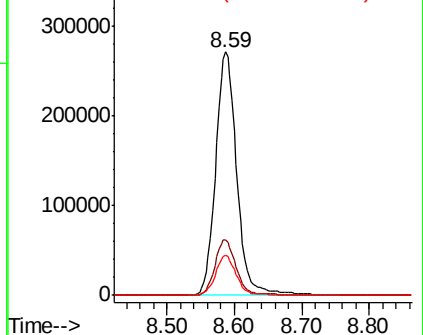
Tgt Ion	Ratio	Resp Lower	Resp Upper
114	100		
63	23.0	0.0	45.2
88	16.2	0.0	31.6

Manual Integrations
APPROVED

MMDadoda
5/3/2019 1:09:44 PM

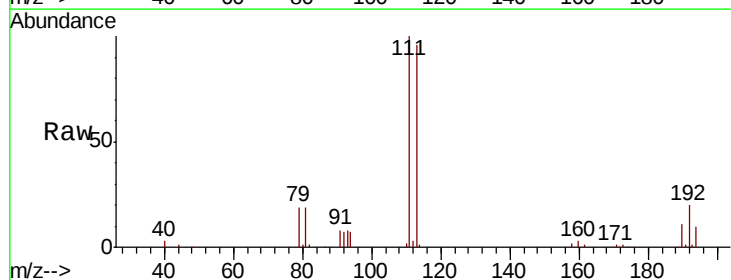


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

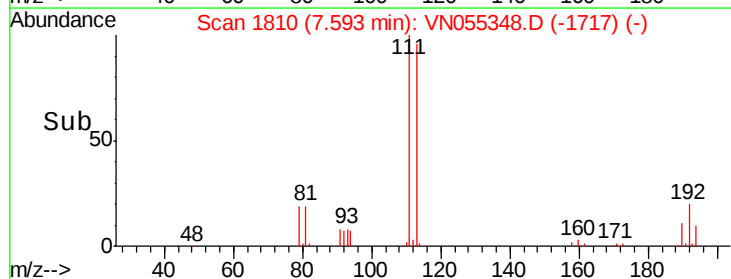
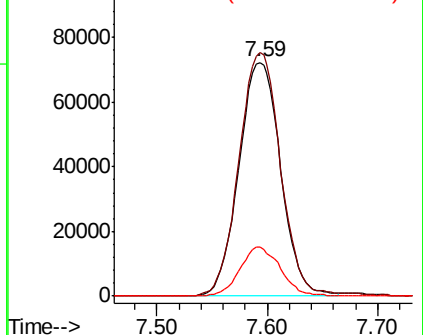


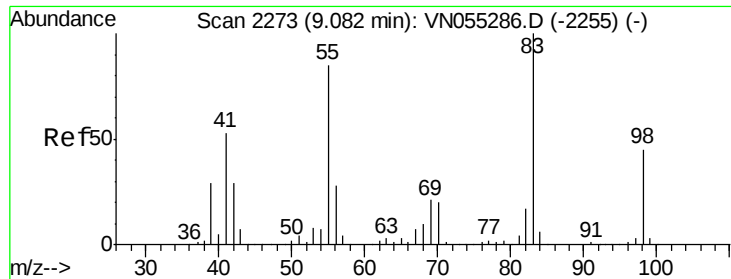
#35
Dibromofluoromethane
Concen: 48.640 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. 0.00 min
Lab File: VN055348.D
Acq: 2 May 2019 14:14

Tgt Ion	Ratio	Resp Lower	Resp Upper
113	100		
111	103.3	82.3	123.5
192	20.3	17.0	25.6



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





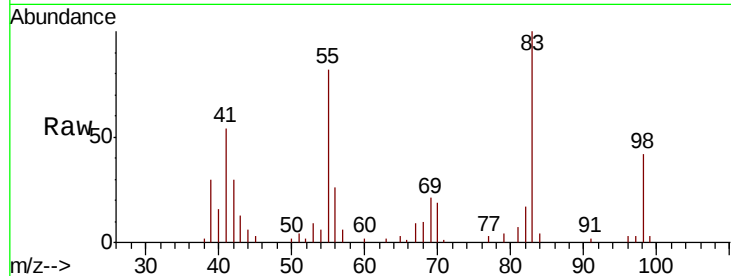
#39
Methylcyclohexane
Concen: 5.224 ug/l
RT: 9.09 min Scan# 2274
Delta R.T. 0.00 min
Lab File: VN055348.D
Acq: 2 May 2019 14:14

Instrument :
MSVOA_N
ClientSampleId :
EP1-PZ-E3-4

Tgt Ion	Ratio	Lower	Upper
83	100		
55	81.7	67.8	101.6
98	41.5	36.2	54.4

Manual Integrations
APPROVED

MMDadoda
5/3/2019 1:09:44 PM

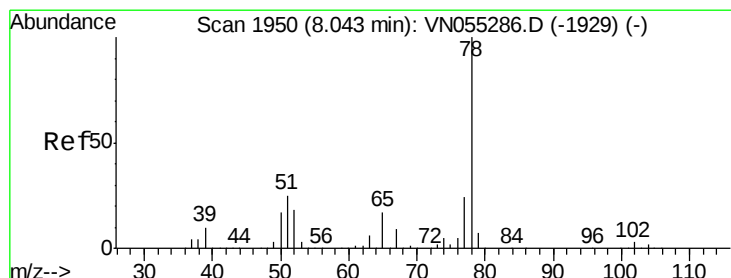
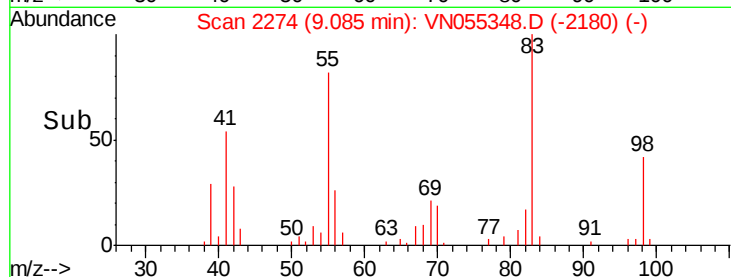
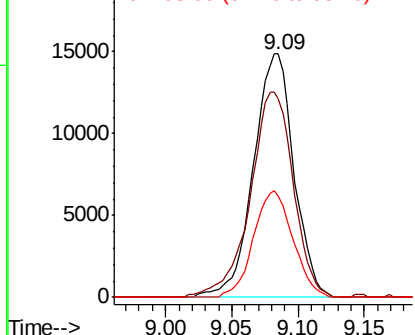


Abundance

Ion 83.00 (82.70 to 83.70): VN0

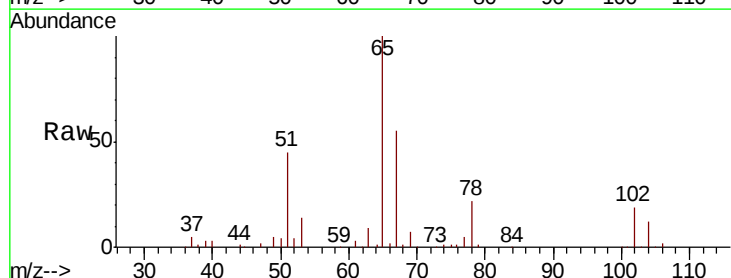
Ion 55.00 (54.70 to 55.70): VN0

Ion 98.00 (97.70 to 98.70): VN0



#40
Benzene
Concen: 1.959 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN055348.D
Acq: 2 May 2019 14:14

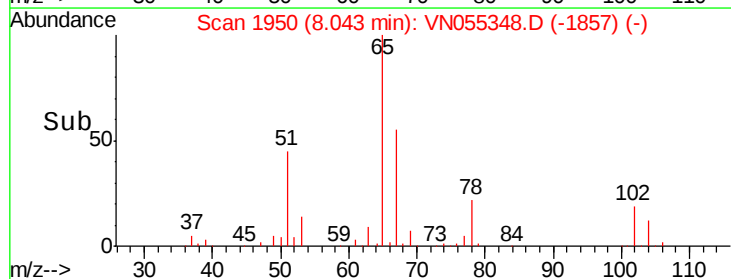
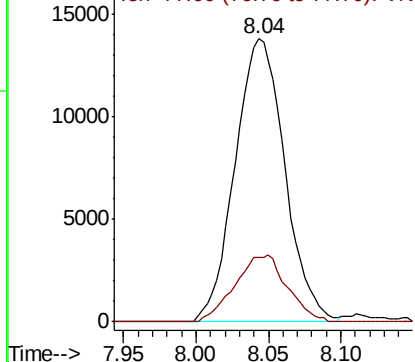
Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.7	19.0	28.6

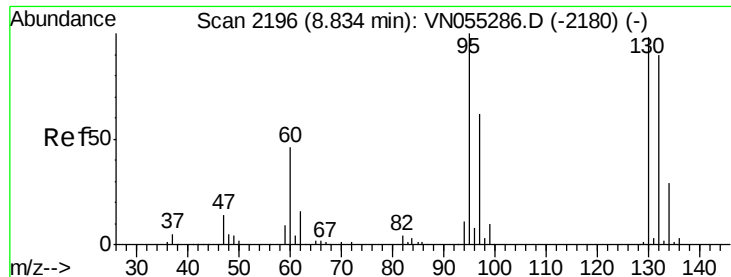


Abundance

Ion 78.00 (77.70 to 78.70): VN0

Ion 77.00 (76.70 to 77.70): VN0





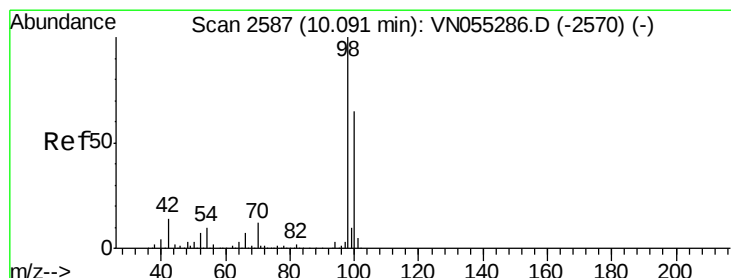
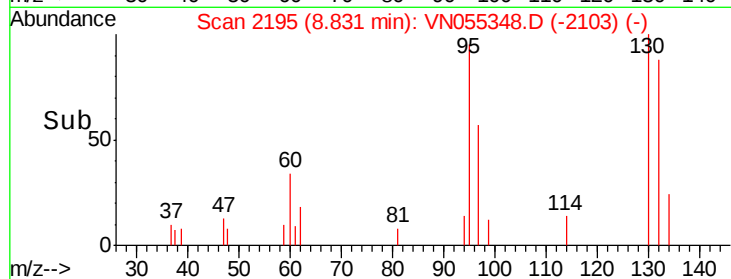
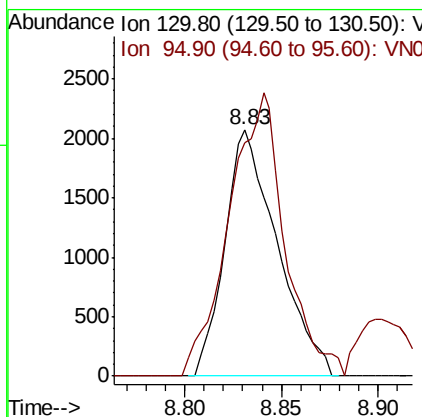
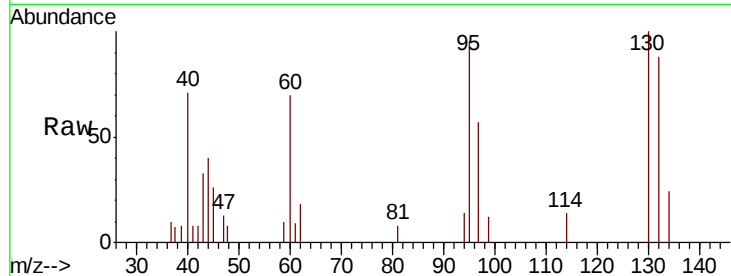
#44
 Trichloroethene
 Concen: 0.912 ug/l
 RT: 8.83 min Scan# 2195
 Delta R.T. -0.00 min
 Lab File: VN055348.D
 Acq: 2 May 2019 14:14

Instrument :
 MSVOA_N
 ClientSampled :
 EP1-PZ-E3-4

Tgt Ion: 130 Resp: 3909
 Ion Ratio Lower Upper
 130 100
 95 87.4 0.0 203.4

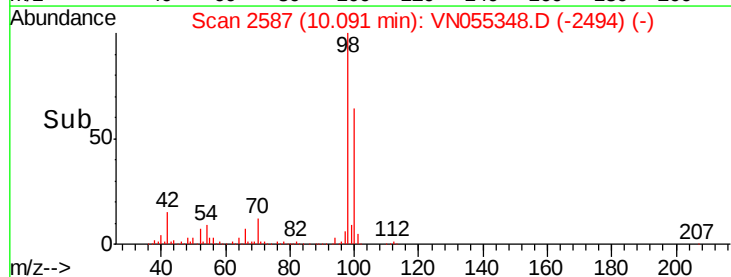
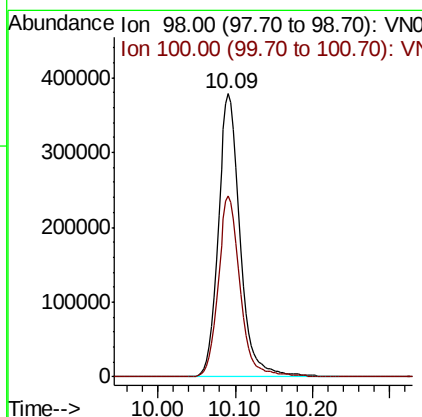
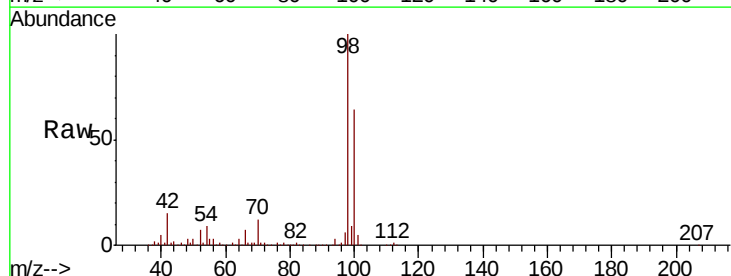
Manual Integrations
 APPROVED

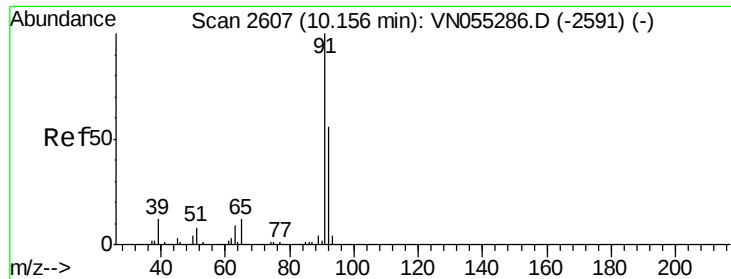
MMDadoda
 5/3/2019 1:09:44 PM



#50
 Toluene-d8
 Concen: 53.167 ug/l
 RT: 10.09 min Scan# 2587
 Delta R.T. 0.00 min
 Lab File: VN055348.D
 Acq: 2 May 2019 14:14

Tgt Ion: 98 Resp: 750427
 Ion Ratio Lower Upper
 98 100
 100 63.9 51.7 77.5





#52

Toluene

Concen: 0.509 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN055348.D

Acq: 2 May 2019 14:14

Instrument :

MSVOA_N

ClientSampled :

EP1-PZ-E3-4

Tgt Ion: 92 Resp: 4910

Ion Ratio Lower Upper

92 100

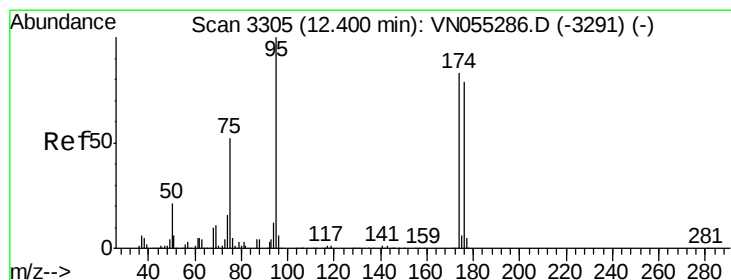
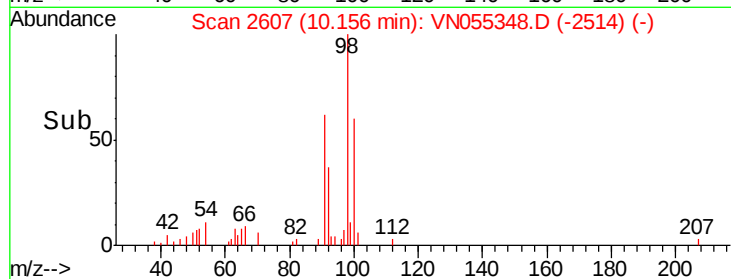
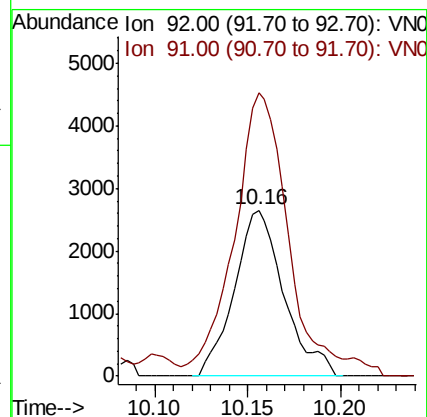
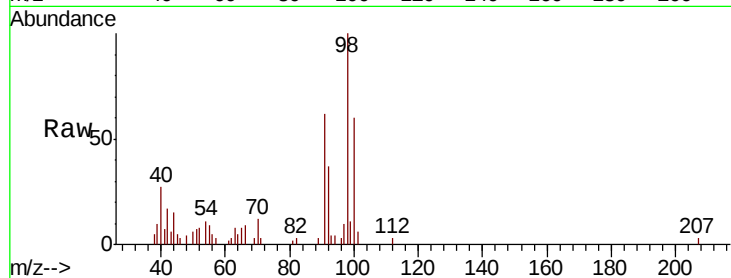
91 189.1 140.1 210.1

Manual Integrations

APPROVED

MMDadoda

5/3/2019 1:09:44 PM



#62

4-Bromofluorobenzene

Concen: 62.936 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN055348.D

Acq: 2 May 2019 14:14

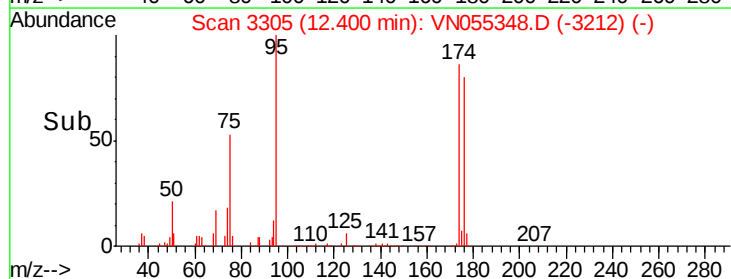
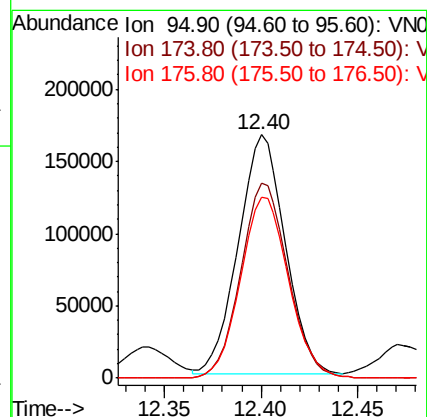
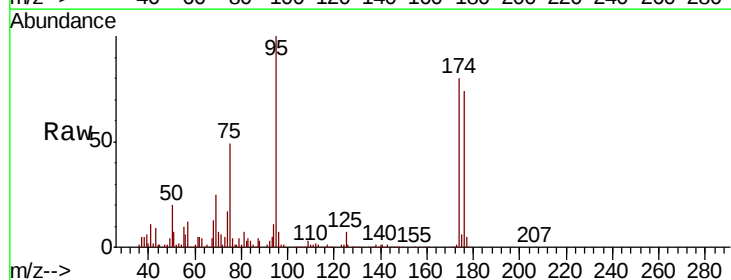
Tgt Ion: 95 Resp: 277631

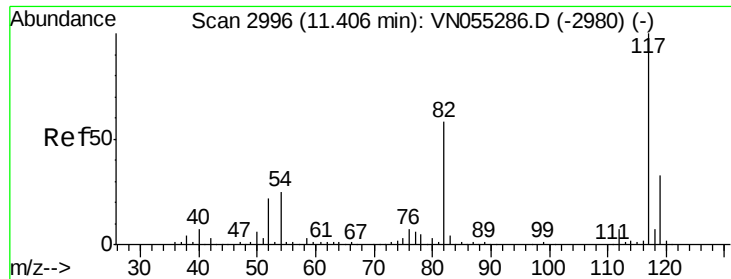
Ion Ratio Lower Upper

95 100

174 82.7 0.0 166.6

176 78.4 0.0 157.8





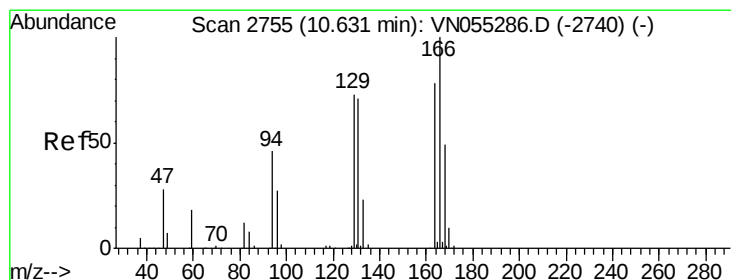
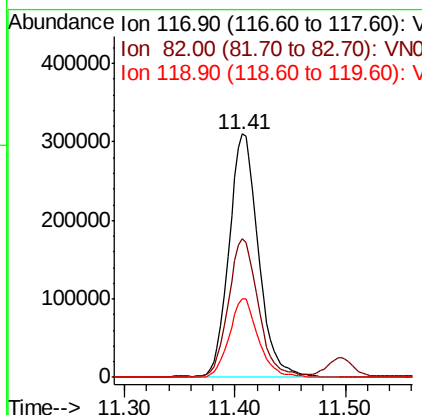
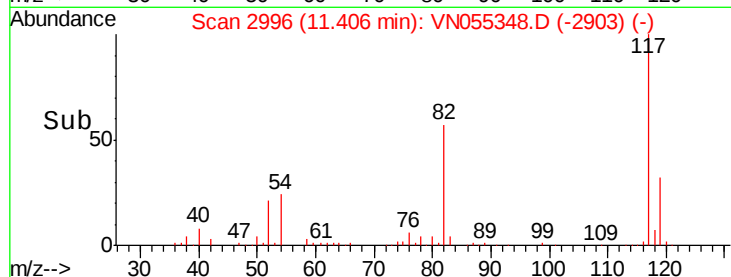
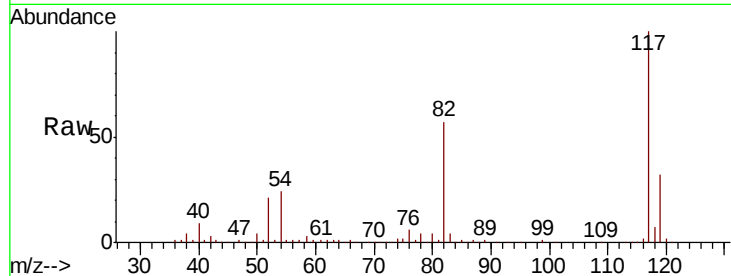
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055348.D
Acq: 2 May 2019 14:14

Instrument :
MSVOA_N
ClientSampleId :
EP1-PZ-E3-4

Tgt Ion:117 Resp: 572416
Ion Ratio Lower Upper
117 100
82 56.6 46.2 69.4
119 32.5 26.6 40.0

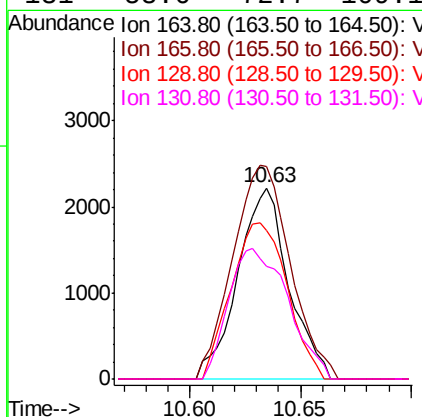
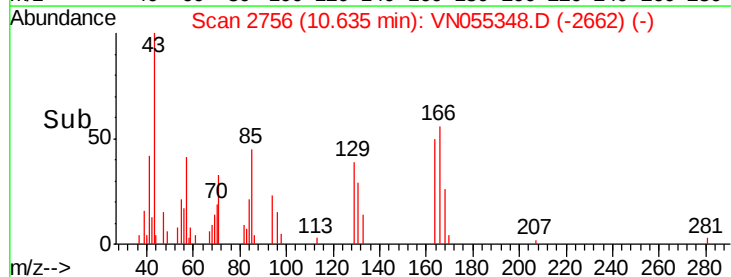
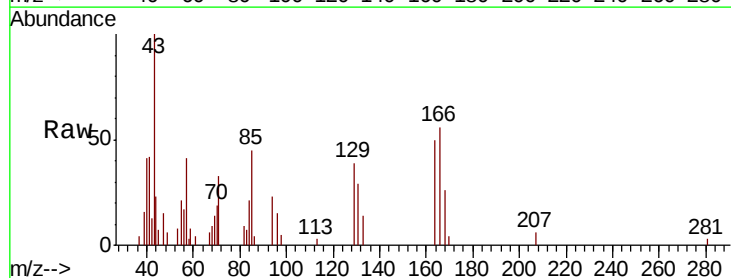
Manual Integrations
APPROVED

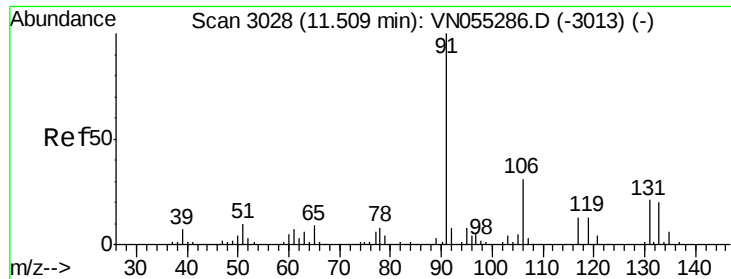
MMDadoda
5/3/2019 1:09:44 PM



#64
Tetrachloroethene
Concen: 0.760 ug/l
RT: 10.63 min Scan# 2756
Delta R.T. 0.00 min
Lab File: VN055348.D
Acq: 2 May 2019 14:14

Tgt Ion:164 Resp: 3558
Ion Ratio Lower Upper
164 100
166 111.4 102.3 153.5
129 77.4 75.0 112.6
131 58.6 72.7 109.1#





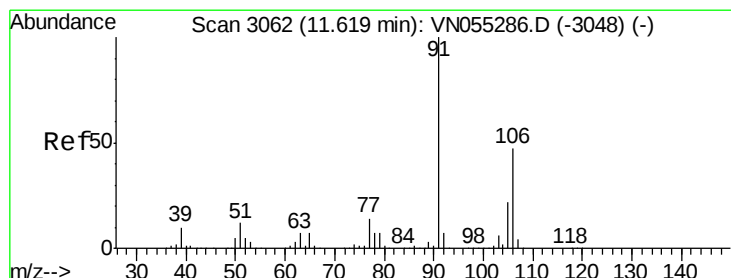
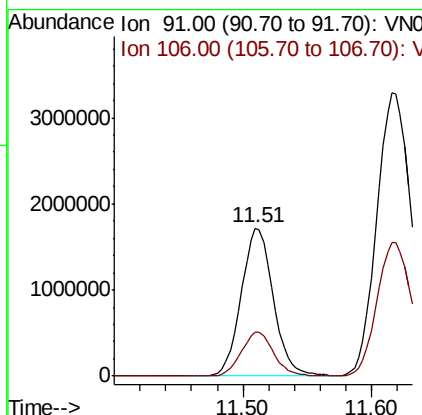
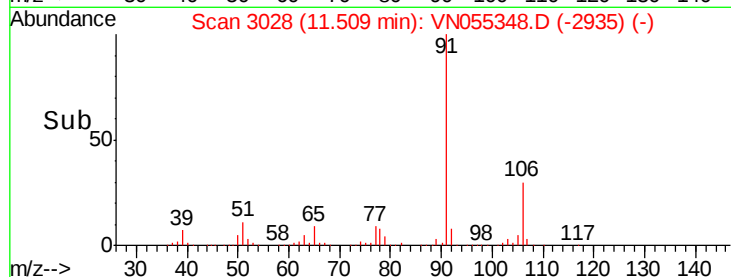
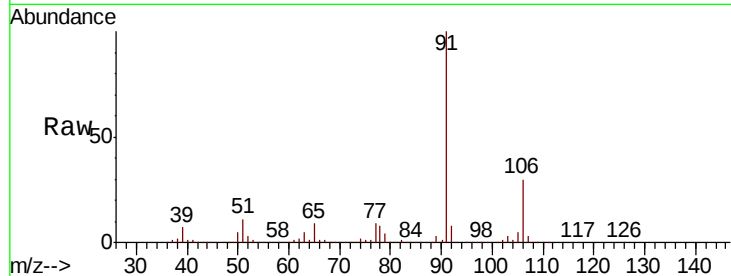
#67
Ethyl Benzene
Concen: 147.706 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN055348.D
Acq: 2 May 2019 14:14

Instrument :
MSVOA_N
ClientSampled :
EP1-PZ-E3-4

Tgt Ion: 91 Resp: 2985072
Ion Ratio Lower Upper
91 100
106 29.9 24.6 36.8

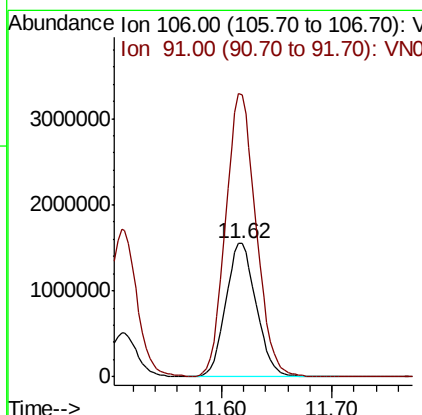
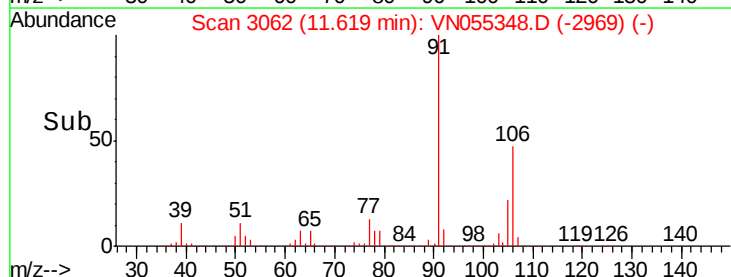
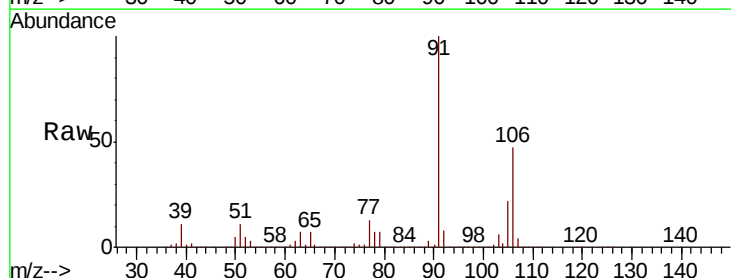
Manual Integrations
APPROVED

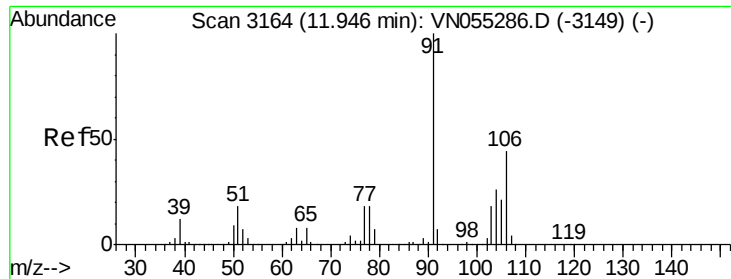
MMDadoda
5/3/2019 1:09:44 PM



#68
m/p-Xylenes
Concen: 411.351 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN055348.D
Acq: 2 May 2019 14:14

Tgt Ion: 106 Resp: 2967359
Ion Ratio Lower Upper
106 100
91 211.6 169.5 254.3





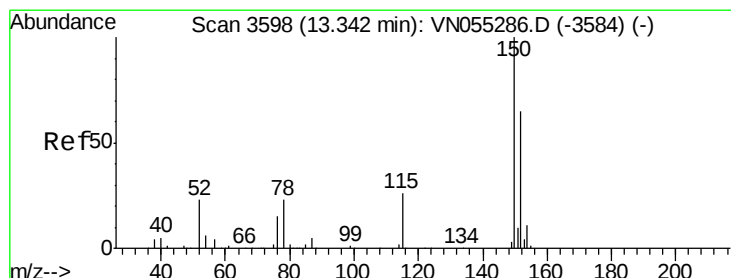
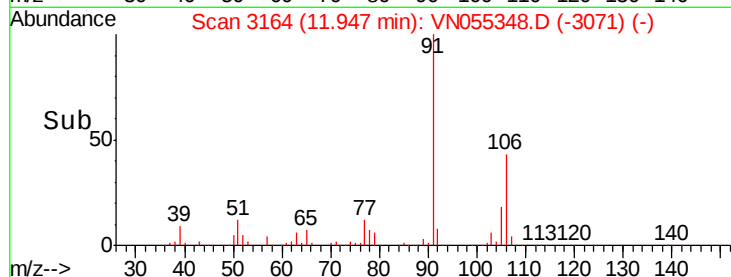
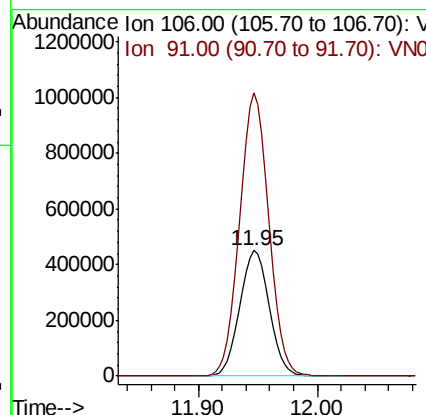
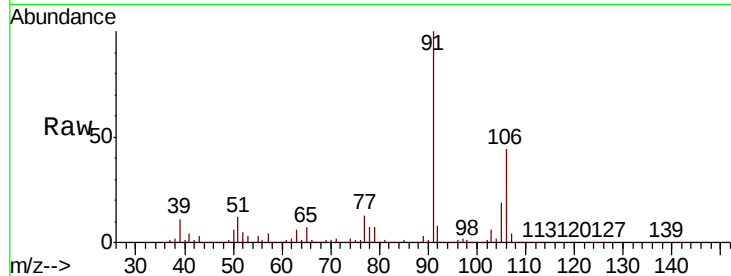
#69
o-Xylene
Concen: 108.572 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN055348.D
Acq: 2 May 2019 14:14

Instrument :
MSVOA_N
ClientSampled :
EP1-PZ-E3-4

Tgt Ion:106 Resp: 776283
Ion Ratio Lower Upper
106 100
91 222.6 111.5 334.5

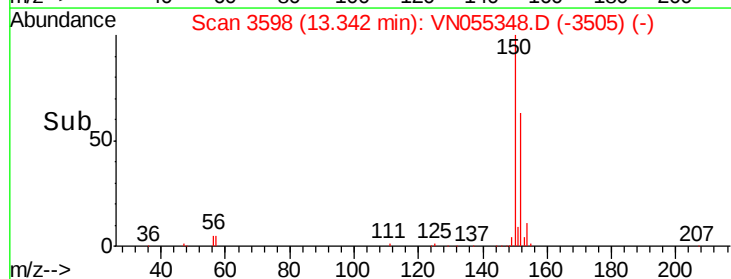
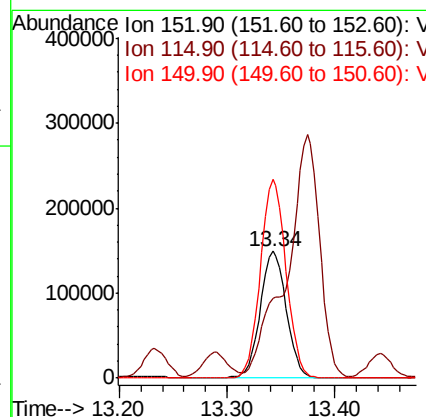
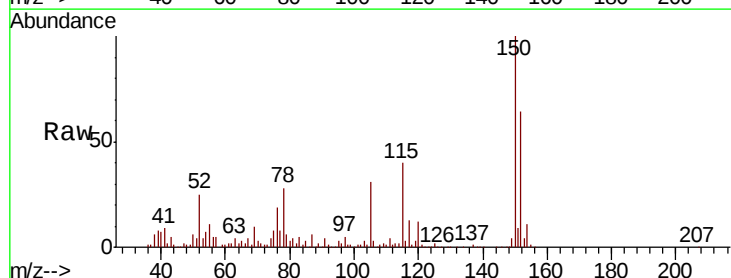
Manual Integrations
APPROVED

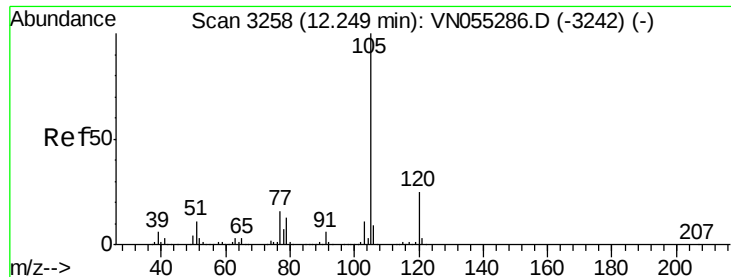
MMDadoda
5/3/2019 1:09:44 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN055348.D
Acq: 2 May 2019 14:14

Tgt Ion:152 Resp: 249288
Ion Ratio Lower Upper
152 100
115 0.0 29.0 87.0#
150 154.6 0.0 345.6





#73

Isopropylbenzene

Concen: 156.066 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN055348.D

Acq: 2 May 2019 14:14

Instrument :

MSVOA_N

ClientSampleId :

EP1-PZ-E3-4

Tgt Ion: 105 Resp: 2962628

Ion Ratio Lower Upper

105 100

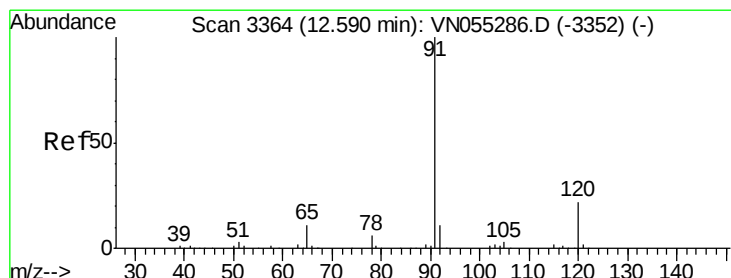
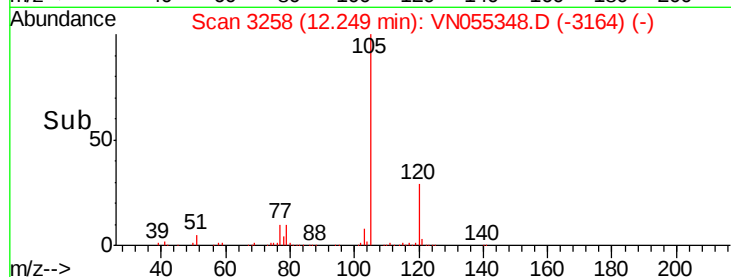
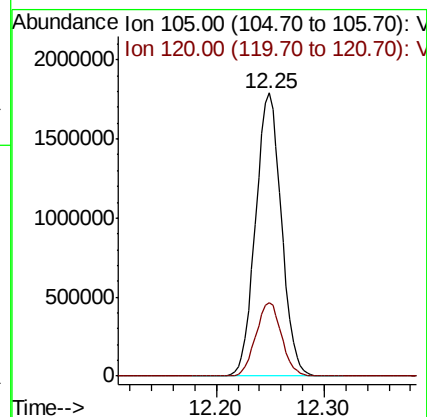
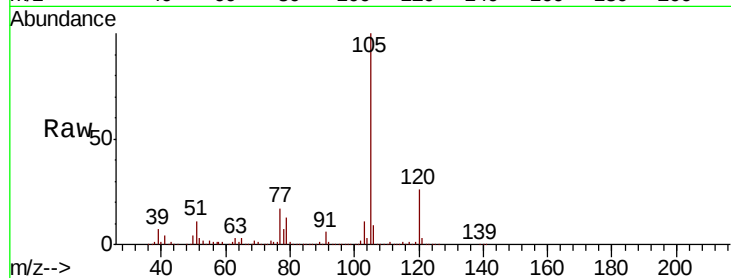
120 26.0 12.9 38.7

Manual Integrations

APPROVED

MMDadoda

5/3/2019 1:09:44 PM



#78

n-propylbenzene

Concen: 241.633 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN055348.D

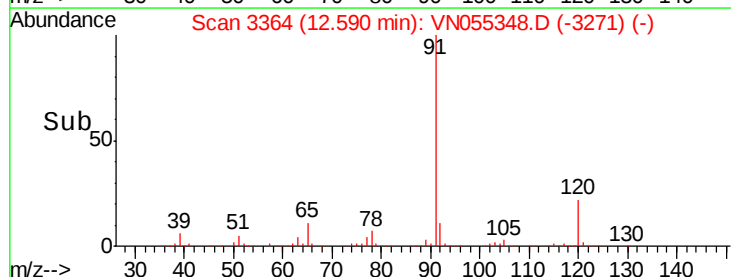
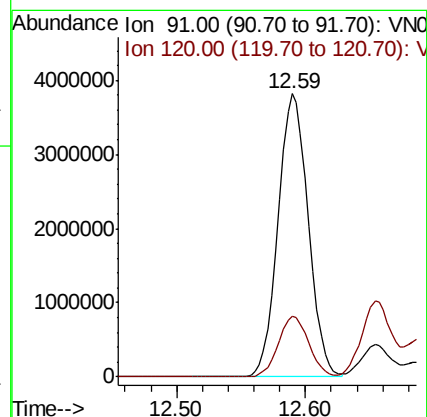
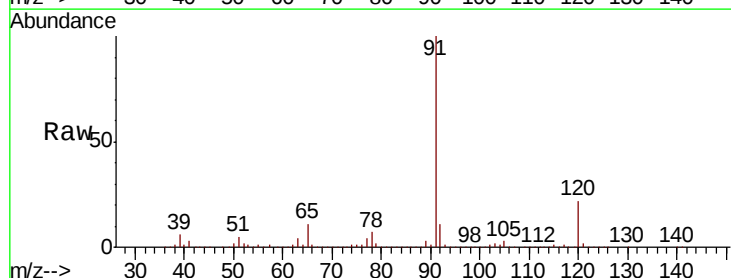
Acq: 2 May 2019 14:14

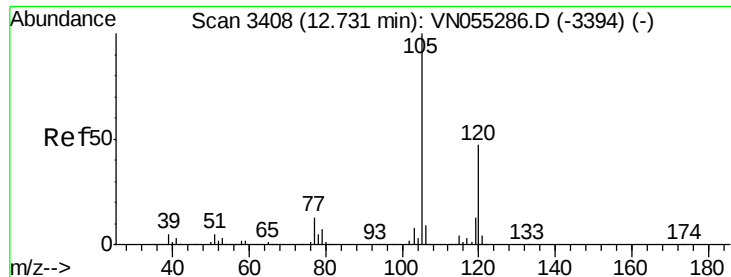
Tgt Ion: 91 Resp: 6187517

Ion Ratio Lower Upper

91 100

120 21.6 11.0 33.0





#80

1,3,5-Trimethylbenzene

Concen: 261.181 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN055348.D

Acq: 2 May 2019 14:14

Instrument :

MSVOA_N

ClientSampleId :

EP1-PZ-E3-4

Tgt Ion:105 Resp: 5104354

Ion Ratio Lower Upper

105 100

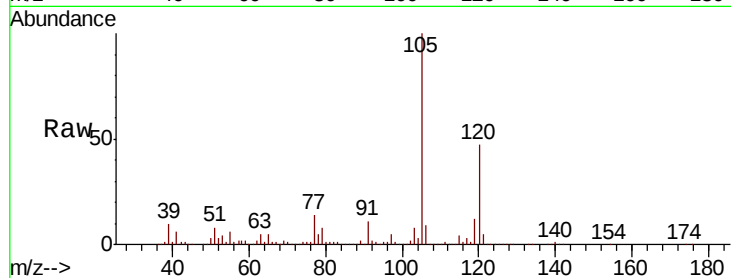
120 47.4 23.4 70.0

Manual Integrations

APPROVED

MMDadoda

5/3/2019 1:09:44 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.73

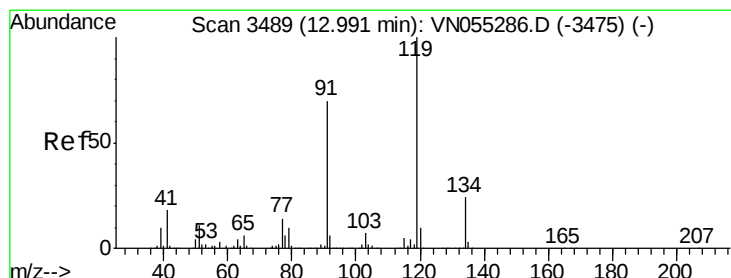
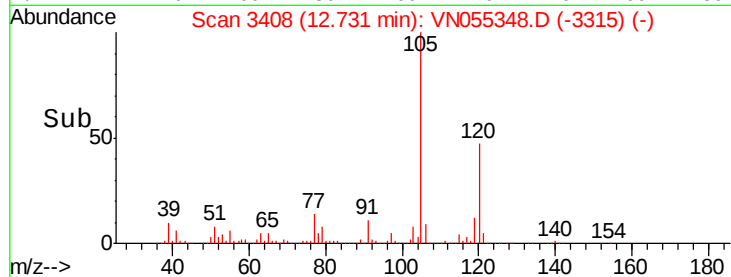
3000000

2000000

1000000

0

Time-->



#83

tert-Butylbenzene

Concen: 16.311 ug/l

RT: 12.99 min Scan# 3489

Delta R.T. 0.00 min

Lab File: VN055348.D

Acq: 2 May 2019 14:14

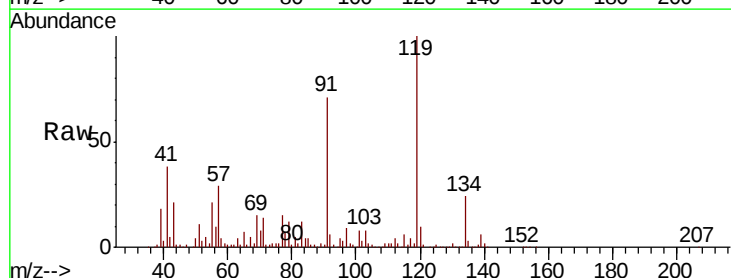
Tgt Ion:119 Resp: 252763

Ion Ratio Lower Upper

119 100

91 71.4 34.3 102.9

134 24.9 13.1 39.3



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V

2500000

2000000

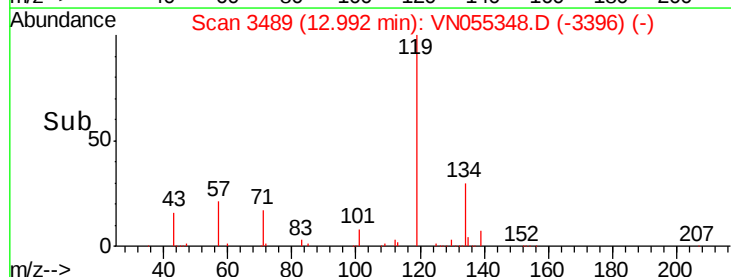
1500000

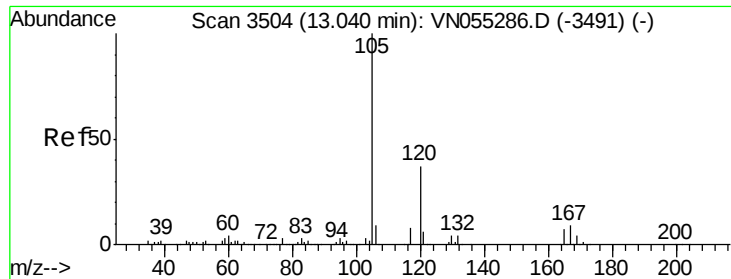
1000000

500000

0

Time-->





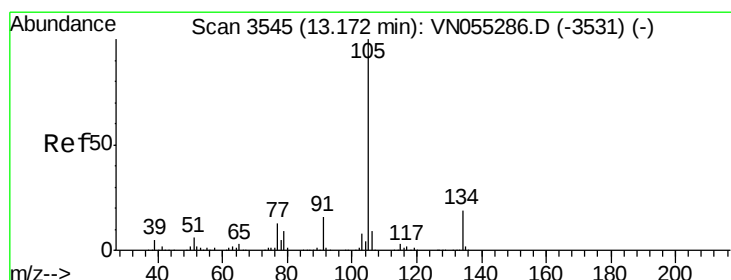
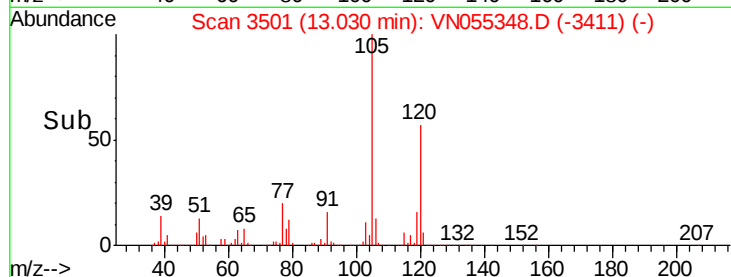
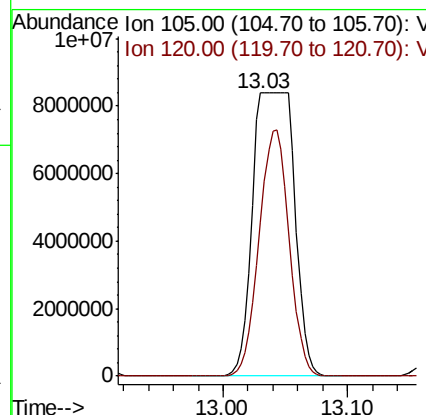
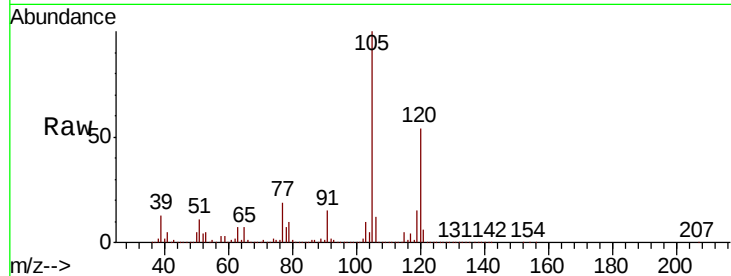
#84
 1,2,4-Trimethylbenzene
 Concen: 1121.191 ug/l m
 RT: 13.03 min Scan# 3501
 Delta R.T. -0.01 min
 Lab File: VN055348.D
 Acq: 2 May 2019 14:14

Instrument :
 MSVOA_N
 ClientSampled :
 EP1-PZ-E3-4

Tgt Ion:105 Resp:19596803
 Ion Ratio Lower Upper
 105 100
 120 2.8 22.1 66.5#

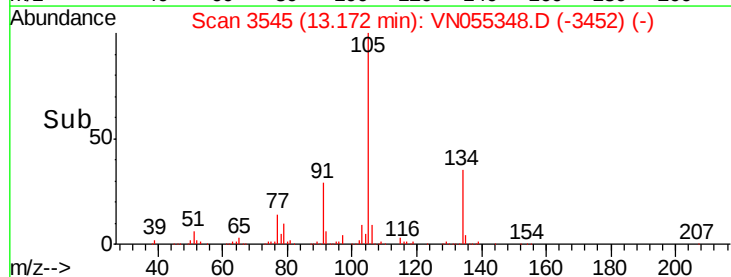
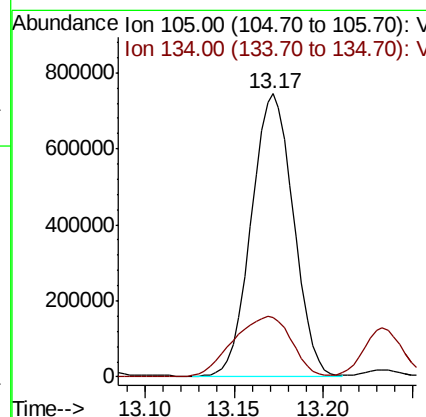
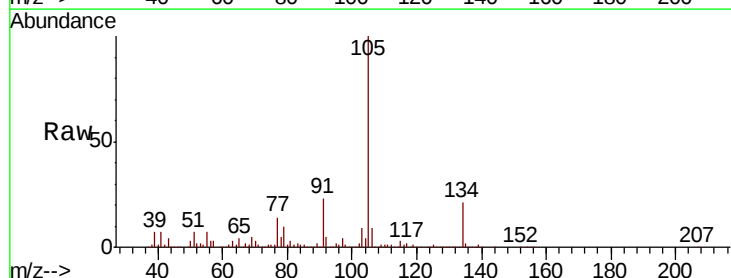
Manual Integrations
 APPROVED

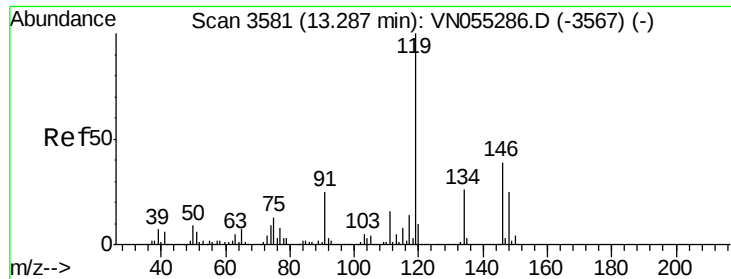
MMDadoda
 5/3/2019 1:09:44 PM



#85
 sec-Butylbenzene
 Concen: 57.463 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN055348.D
 Acq: 2 May 2019 14:14

Tgt Ion:105 Resp: 1220620
 Ion Ratio Lower Upper
 105 100
 134 29.9 9.6 28.8#





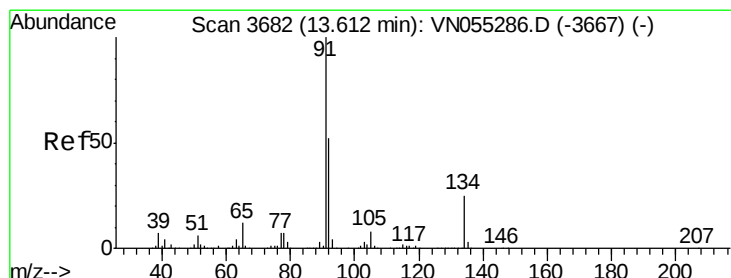
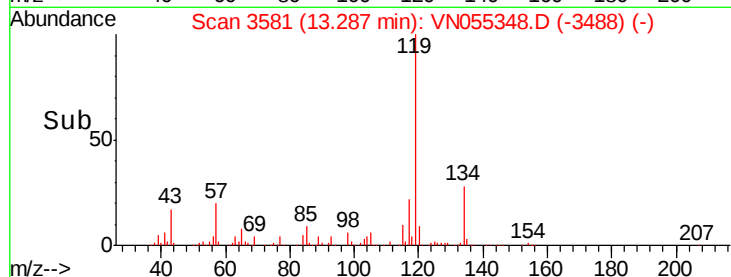
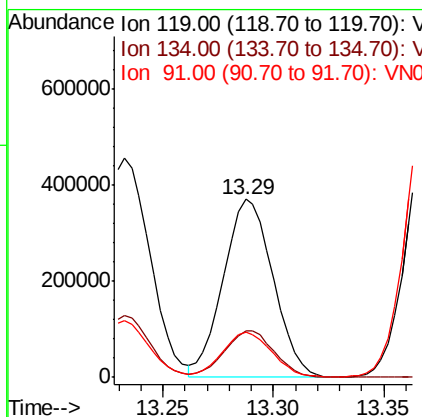
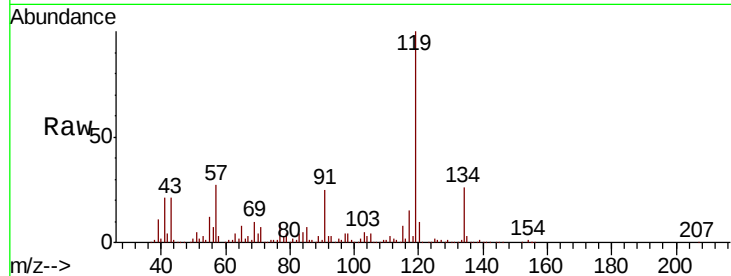
#86
p-Isopropyltoluene
Concen: 33.143 ug/l
RT: 13.29 min Scan# 3581
Delta R.T. 0.00 min
Lab File: VN055348.D
Acq: 2 May 2019 14:14

Instrument :
MSVOA_N
ClientSampled :
EP1-PZ-E3-4

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.3	13.0	38.9
91	24.4	12.2	36.6

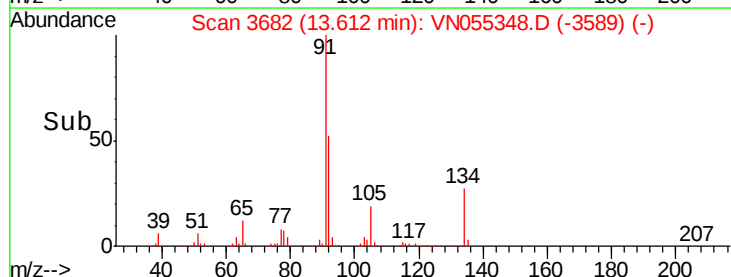
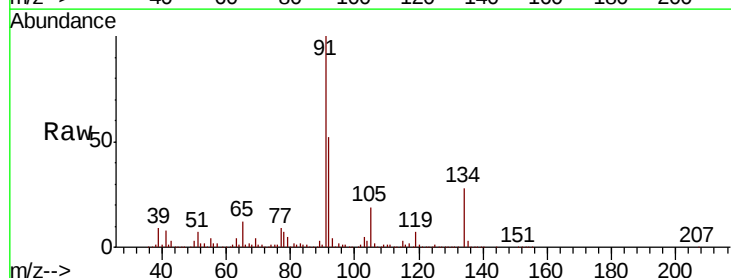
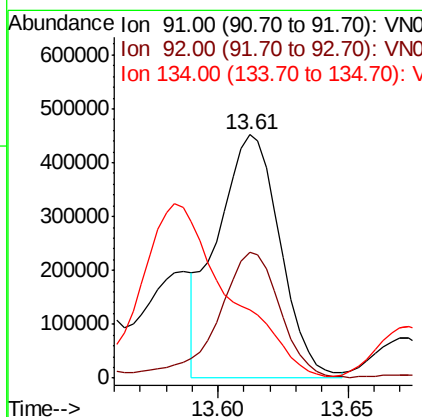
Manual Integrations
APPROVED

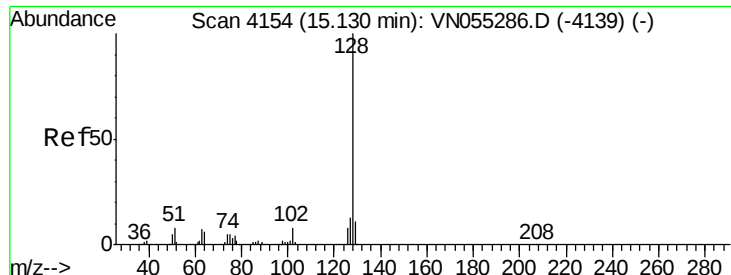
MMDadoda
5/3/2019 1:09:44 PM



#89
n-Butylbenzene
Concen: 61.261 ug/l m
RT: 13.61 min Scan# 3682
Delta R.T. 0.00 min
Lab File: VN055348.D
Acq: 2 May 2019 14:14

Tgt Ion	Ratio	Lower	Upper
91	100		
92	50.2	26.1	78.3
134	0.0	12.4	37.4#





#95
Naphthalene
Concen: 112.140 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. 0.00 min
Lab File: VN055348.D
Acq: 2 May 2019 14:14

Instrument :
MSVOA_N
ClientSampleId :
EP1-PZ-E3-4

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	807739		
127	13.2		10.7	16.1
129	10.9		8.6	13.0

Manual Integrations
APPROVED

MMDadoda
5/3/2019 1:09:44 PM

