

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052319\
 Data File : VN055778.D
 Acq On : 24 May 2019 1:33
 Operator : JC/SP
 Sample : K2996-01
 Misc : 6.07µ/5mL/100µL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 P-1(9.5-10.0)

Manual Integrations
 APPROVED

MMDadoda
 5/24/2019 9:53:09 AM

Quant Time: May 24 08:14:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052319W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 24 06:41:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	388360	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	533014	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	472990	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	276296	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.02	65	176491	44.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.02%	
35) Dibromofluoromethane	7.59	113	160651	47.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.34%	
50) Toluene-d8	10.09	98	789871	61.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	122.20%	
62) 4-Bromofluorobenzene	12.40	95	377683	85.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	170.42%	
Target Compounds						
					Qvalue	
31) Cyclohexane	7.63	56	3413043	566.962	ug/l #	51
39) Methylcyclohexane	9.08	83	3517969	611.607	ug/l	92
40) Benzene	8.04	78	295288	21.093	ug/l	98
52) Toluene	10.16	92	153225	17.403	ug/l	99
67) Ethyl Benzene	11.51	91	17084028m	1006.118	ug/l	
68) m/p-Xylenes	11.63	106	14398524	2243.000	ug/l #	1
69) o-Xylene	11.95	106	54844	8.611	ug/l	85
73) Isopropylbenzene	12.25	105	8266184	441.467	ug/l	99
78) n-propylbenzene	12.59	91	8767969	365.120	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	8922378	565.738	ug/l	99
83) tert-Butylbenzene	12.99	119	112121m	5.125	ug/l	
84) 1,2,4-Trimethylbenzene	13.03	105	22835776m	1448.085	ug/l	
85) sec-Butylbenzene	13.17	105	980331	52.841	ug/l #	54
86) p-Isopropyltoluene	13.29	119	505922m	26.367	ug/l	
89) n-Butylbenzene	13.61	91	1897134m	129.042	ug/l	
95) Naphthalene	15.13	128	6053818	473.651	ug/l	100

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

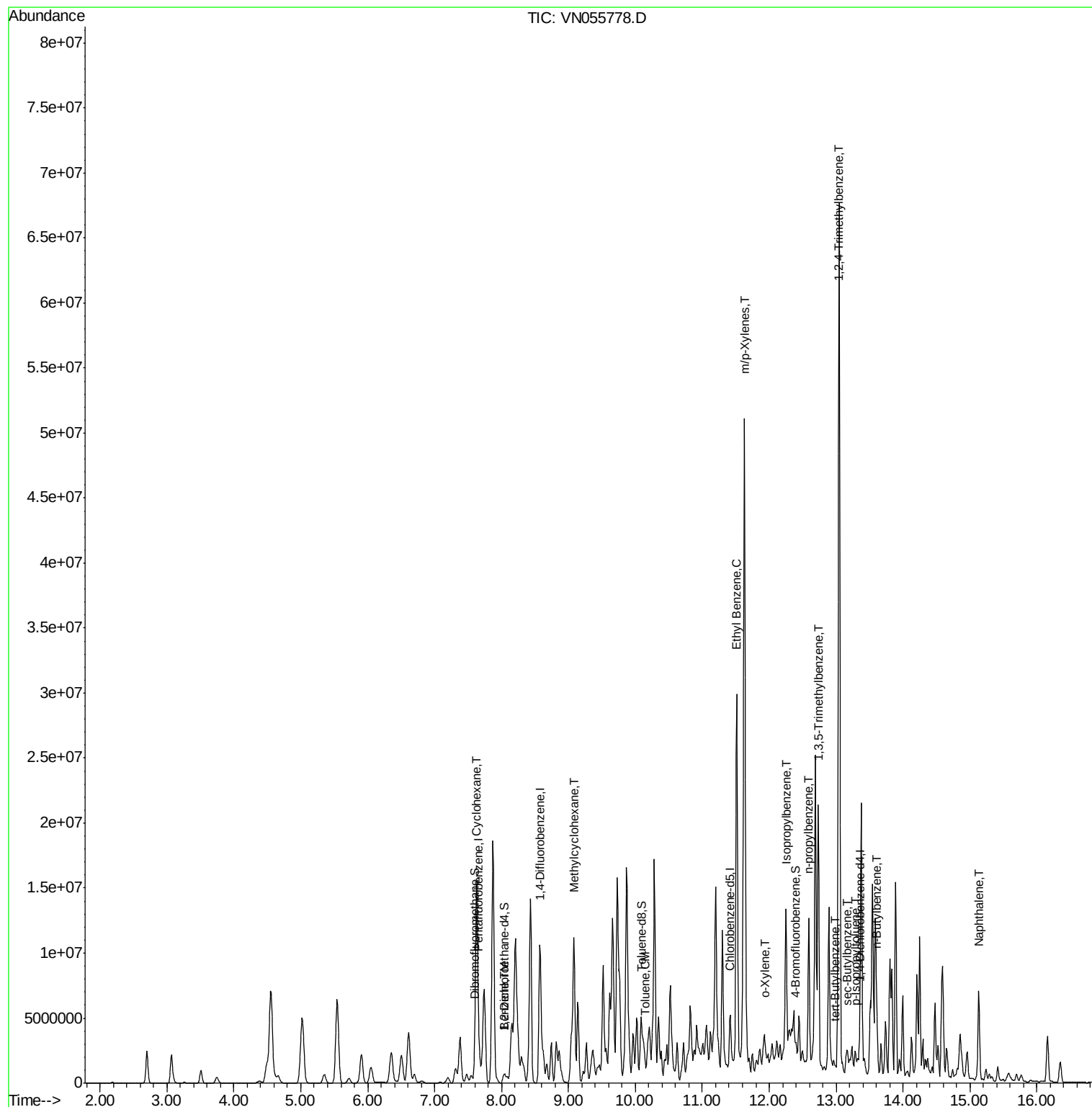
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN052319\
Data File : VN055778.D
Acq On : 24 May 2019 1:33
Operator : JC/SP
Sample : K2996-01
Misc : 6.07µ/5mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 41 Sample Multiplier: 1

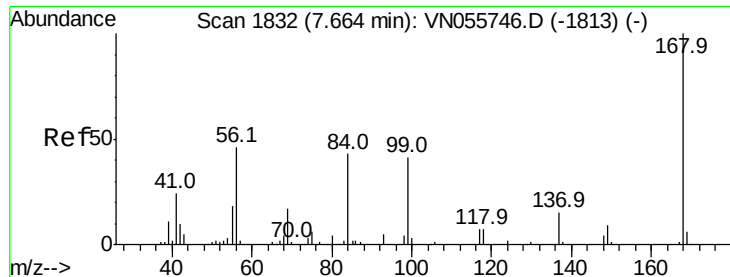
Instrument :
MSVOA_N
ClientSampleId :
P-1(9.5-10.0)

Manual Integrations
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Quant Time: May 24 08:14:28 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N052319W.M
Quant Title : SW846 8260
QLast Update : Fri May 24 06:41:54 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. -0.00 min

Lab File: VN055778.D

Acq: 24 May 2019 1:33

Instrument :

MSVOA_N

ClientSampleId :

P-1(9.5-10.0)

Tot Ion:168 Resp: 388360

Ion Ratio Lower Upper

168 100

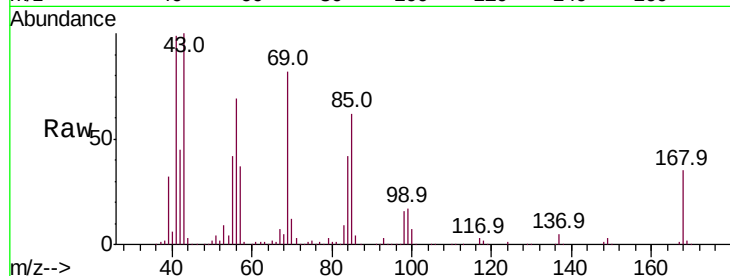
99 46.1 37.2 55.8

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.66

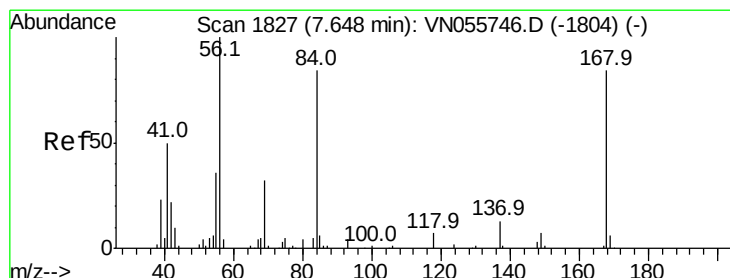
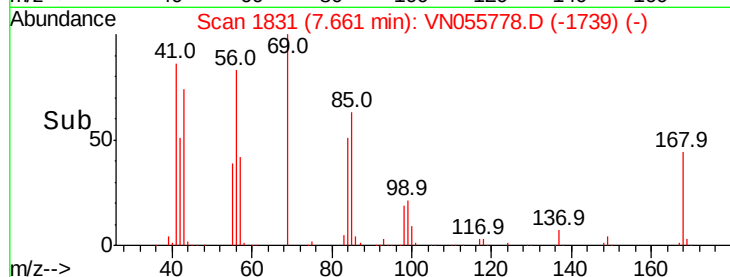
150000

100000

50000

0

Time-->



#31

Cyclohexane

Concen: 566.962 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. -0.02 min

Lab File: VN055778.D

Acq: 24 May 2019 1:33

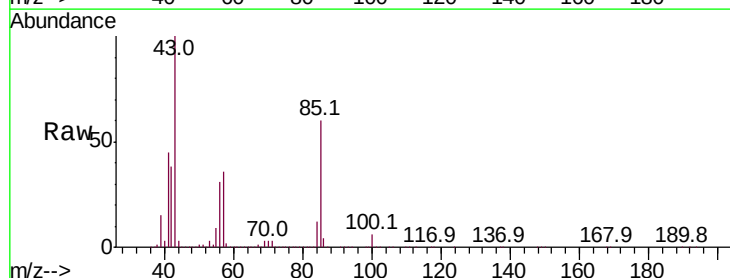
Tgt Ion: 56 Resp: 3413043

Ion Ratio Lower Upper

56 100

69 5.2 25.6 38.4#

84 38.8 67.4 101.0#



Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 84.00 (83.70 to 84.70): VNO

2000000

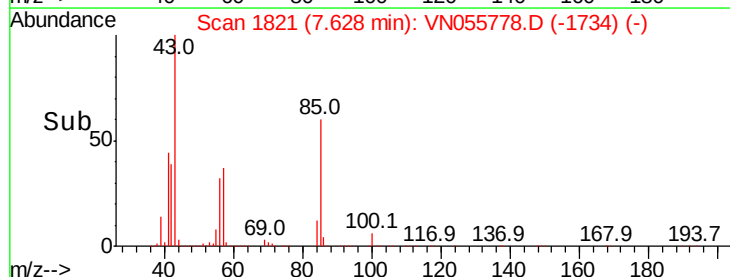
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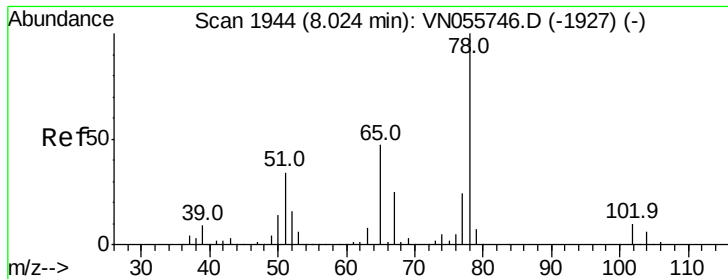
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500000

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Time-->





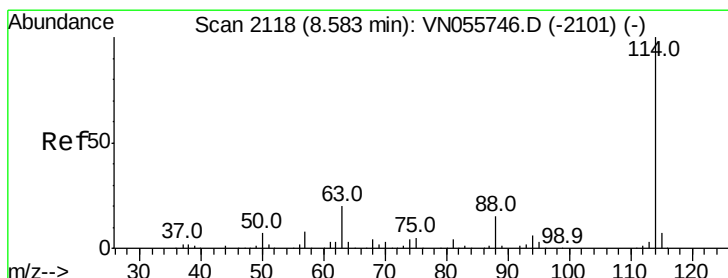
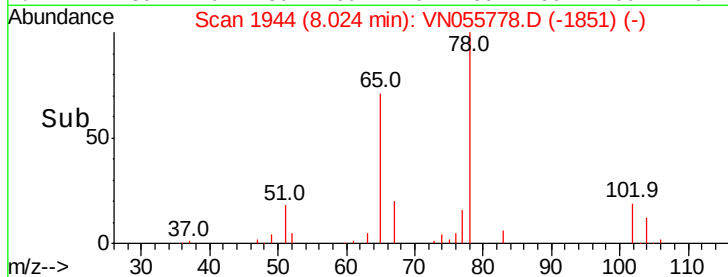
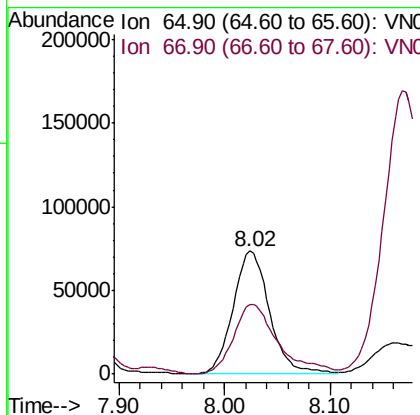
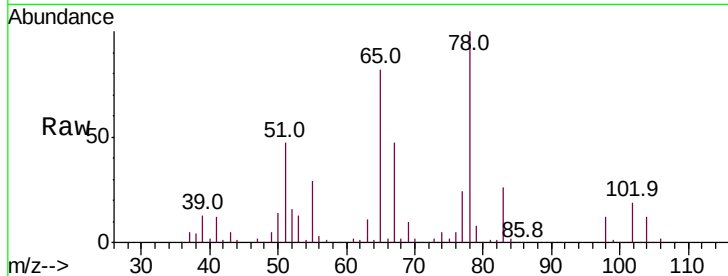
#33
 1,2-Dichloroethane-d4
 Concen: 44.005 ug/l
 RT: 8.02 min Scan# 1944
 Delta R.T. 0.00 min
 Lab File: VN055778.D
 Acq: 24 May 2019 1:33

Instrument :
 MSVOA_N
 ClientSampled :
 P-1(9.5-10.0)

Tot Ion	Ratio	Resp	Lower	Upper
65	100	176491		
67	68.5	0.0	109.2	

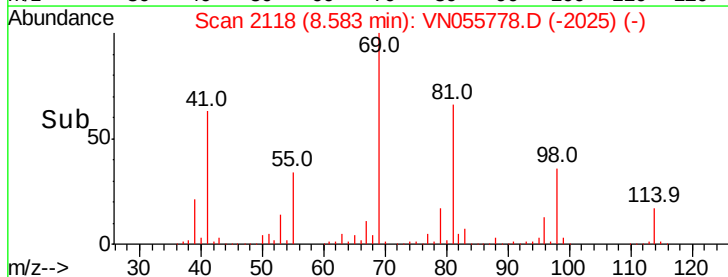
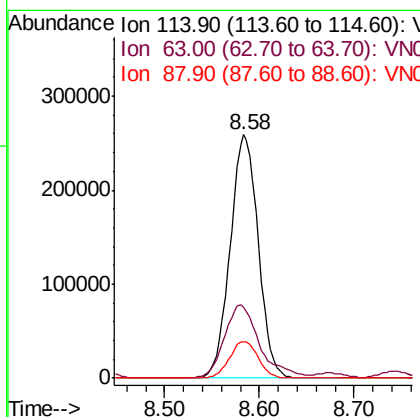
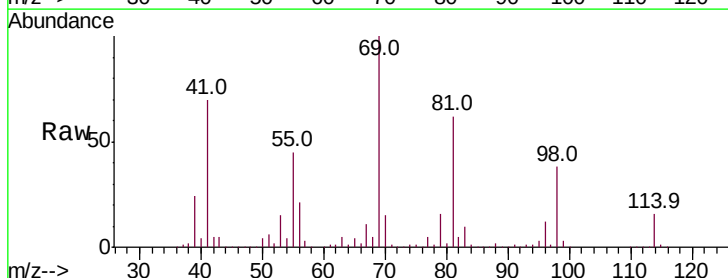
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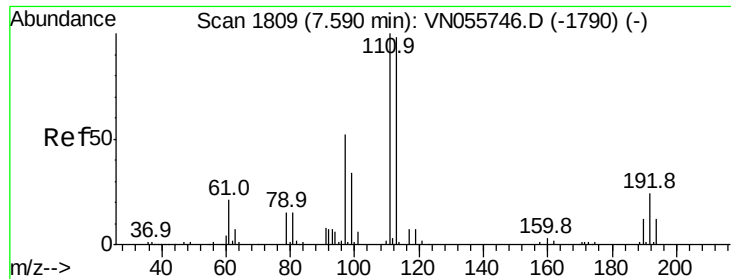
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN055778.D
 Acq: 24 May 2019 1:33

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	533014		
63	29.0	0.0	39.2	
88	15.1	0.0	31.0	





#35

Dibromofluoromethane

Concen: 47.672 ug/l

RT: 7.59 min Scan# 1808

Delta R.T. -0.00 min

Lab File: VN055778.D

Acq: 24 May 2019 1:33

Instrument :

MSVOA_N

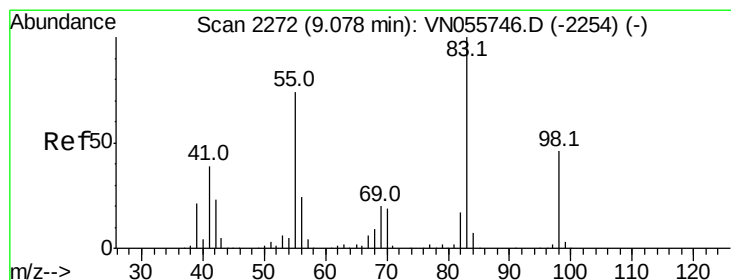
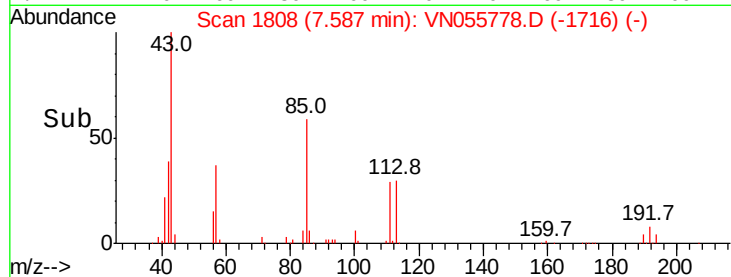
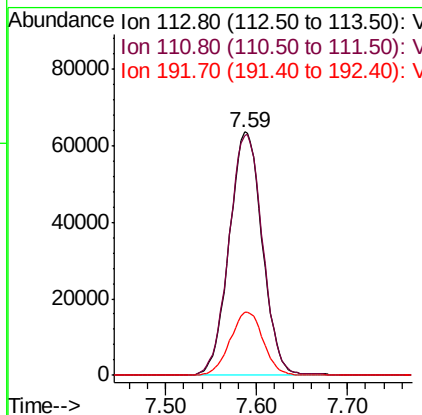
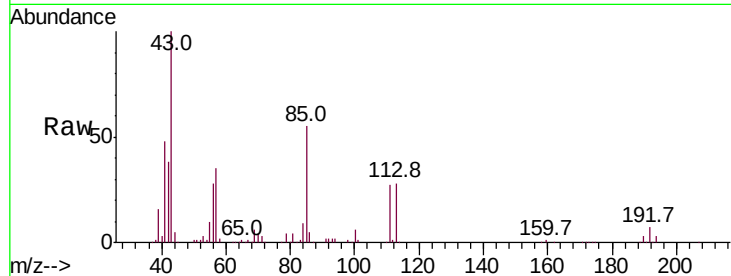
ClientSampleId :

P-1(9.5-10.0)

Tot Ion	Ratio	Lower	Upper
113	100		
111	100.4	81.9	122.9
192	25.8	19.5	29.3

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#39

Methylcyclohexane

Concen: 611.607 ug/l

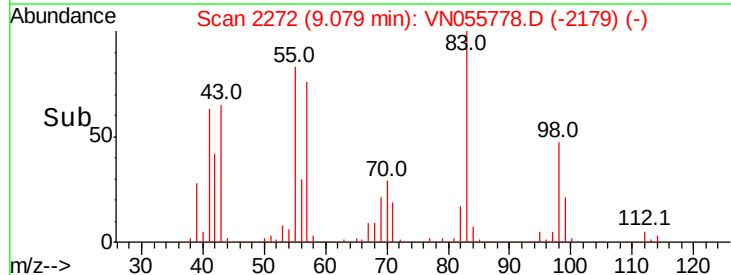
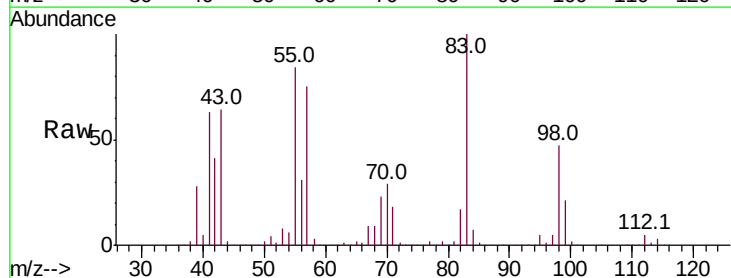
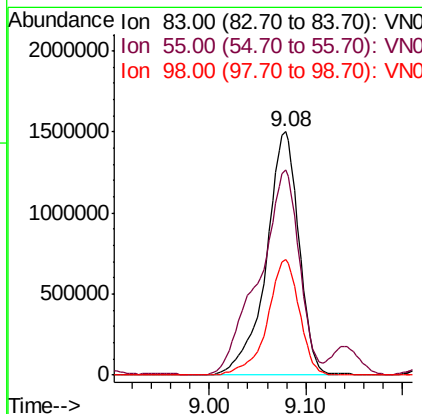
RT: 9.08 min Scan# 2272

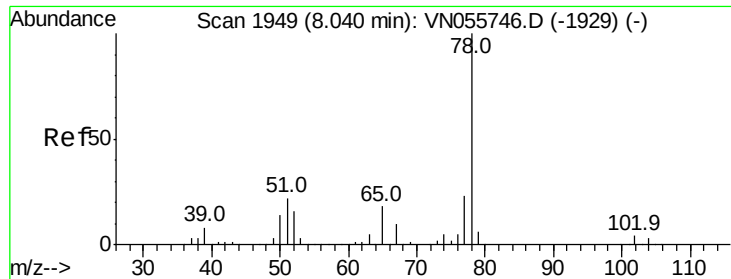
Delta R.T. 0.00 min

Lab File: VN055778.D

Acq: 24 May 2019 1:33

Tgt Ion	Ratio	Lower	Upper
83	100		
55	83.9	59.3	88.9
98	47.5	36.6	54.8





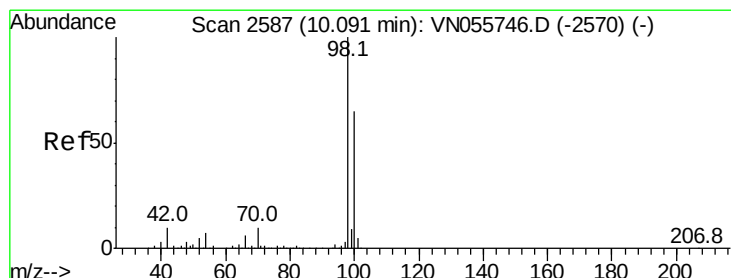
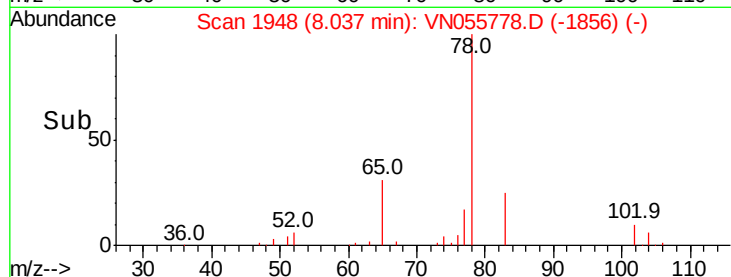
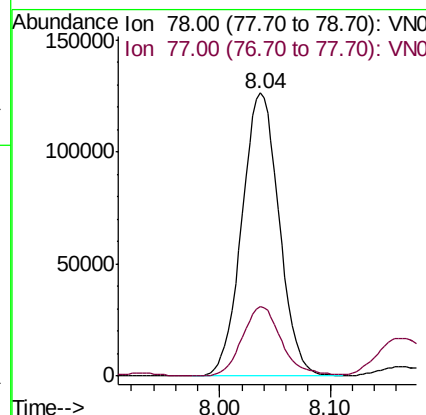
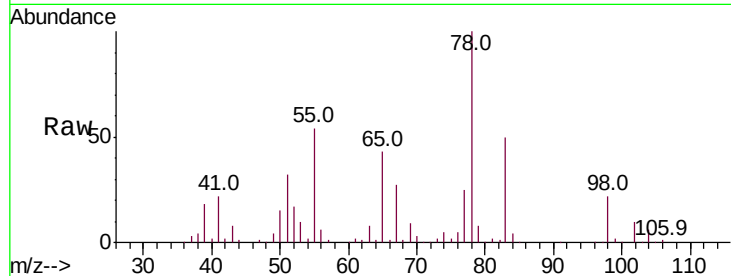
#40
Benzene
Concen: 21.093 ug/l
RT: 8.04 min Scan# 1948
Delta R.T. -0.00 min
Lab File: VN055778.D
Acq: 24 May 2019 1:33

Instrument :
MSVOA_N
ClientSampleId :
P-1(9.5-10.0)

Tot Ion: 78 Resp: 295288
Ion Ratio Lower Upper
78 100
77 24.6 18.8 28.2

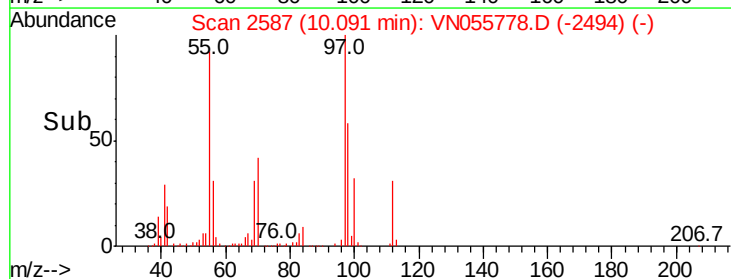
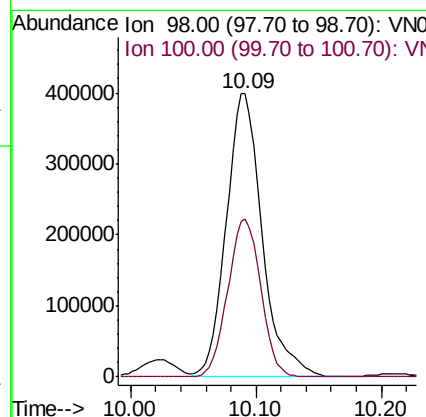
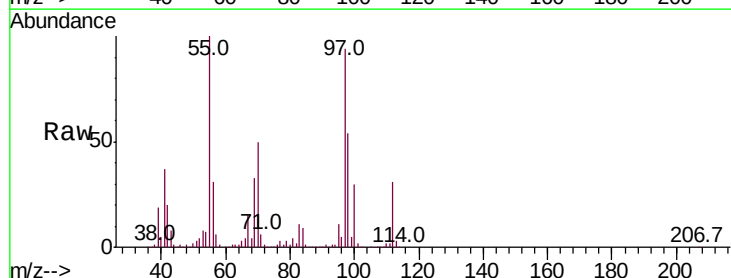
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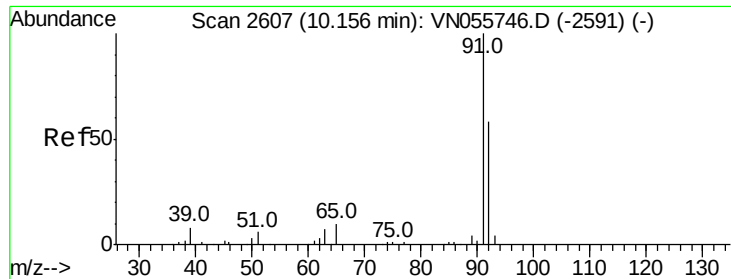
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#50
Toluene-d8
Concen: 61.104 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN055778.D
Acq: 24 May 2019 1:33

Tgt Ion: 98 Resp: 789871
Ion Ratio Lower Upper
98 100
100 51.3 51.9 77.9#





#52

Toluene

Concen: 17.403 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN055778.D

Acq: 24 May 2019 1:33

Instrument :

MSVOA_N

ClientSampleId :

P-1(9.5-10.0)

Tot Ion: 92 Resp: 153225

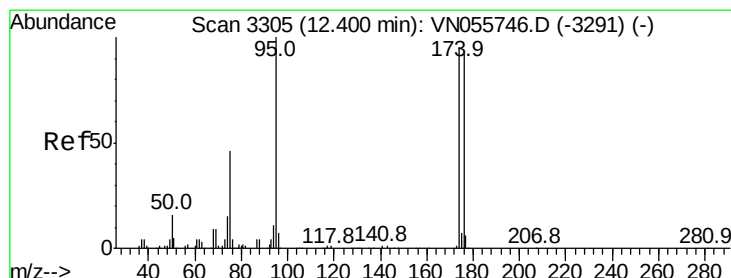
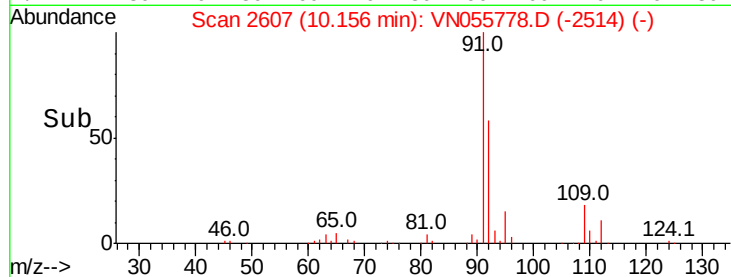
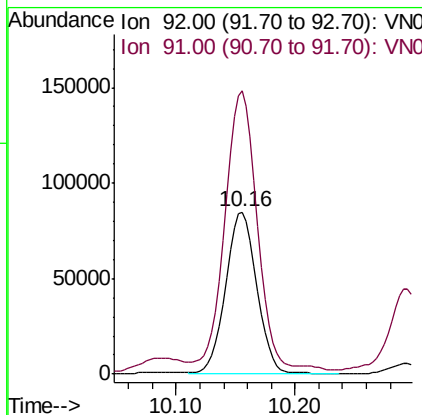
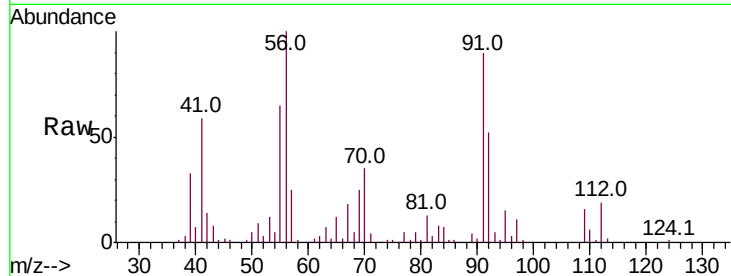
Ion Ratio Lower Upper

92 100

91 173.2 139.4 209.2

Manual Integrations
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5/24/2019 9:53:09 AM



#62

4-Bromofluorobenzene

Concen: 85.210 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN055778.D

Acq: 24 May 2019 1:33

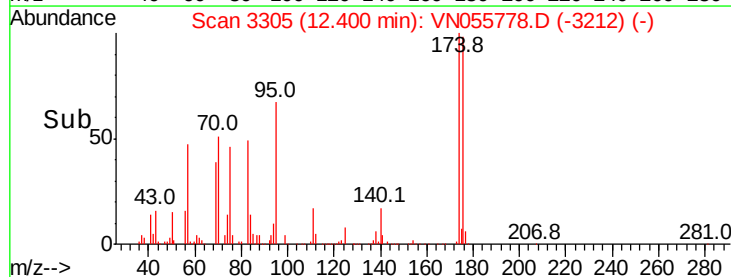
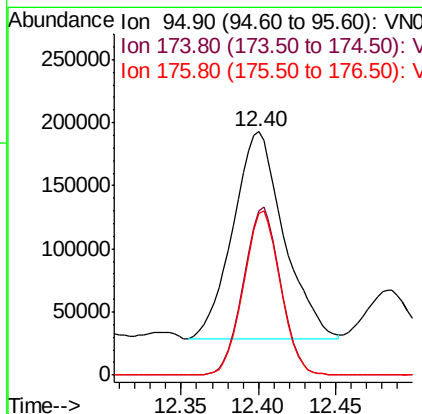
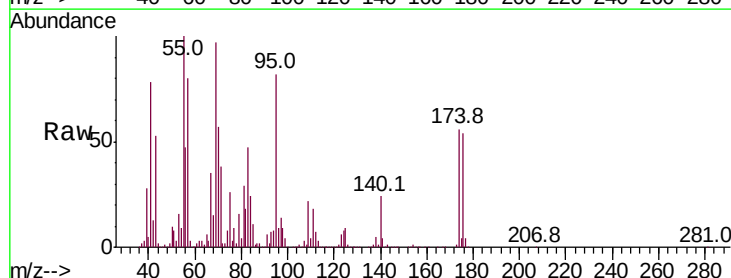
Tgt Ion: 95 Resp: 377683

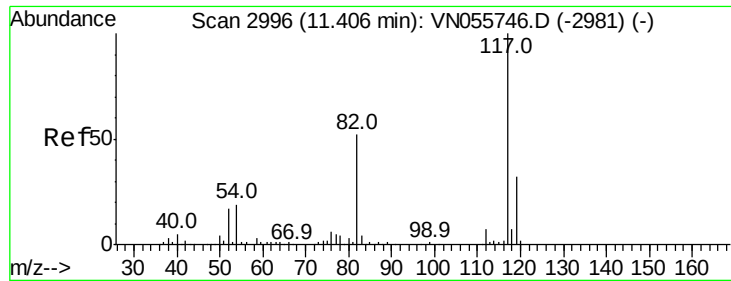
Ion Ratio Lower Upper

95 100

174 59.2 0.0 191.0

176 57.4 0.0 185.2





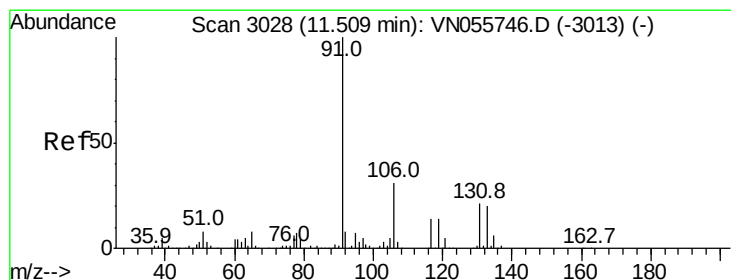
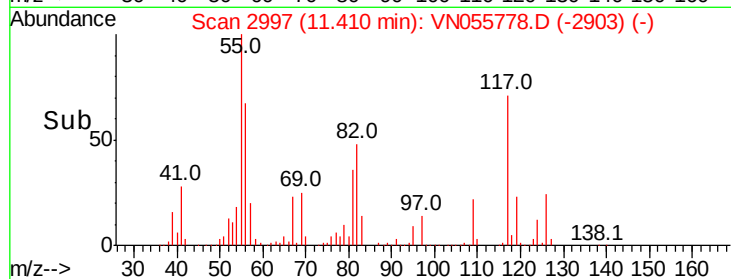
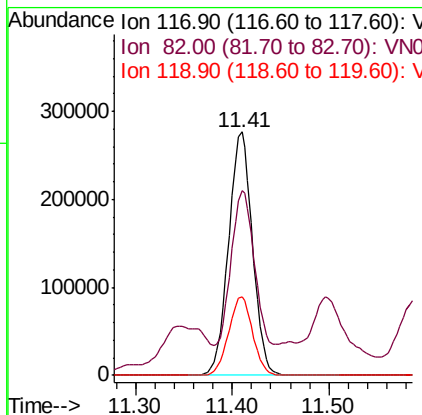
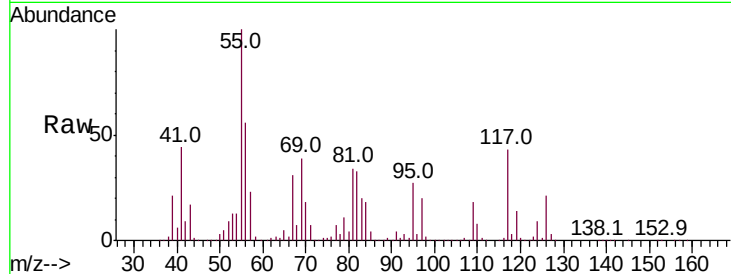
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN055778.D
Acq: 24 May 2019 1:33

Instrument :
MSVOA_N
ClientSampled :
P-1(9.5-10.0)

Tot Ion	Ratio	Lower	Upper
117	100		
82	56.7	41.8	62.8
119	32.4	25.4	38.0

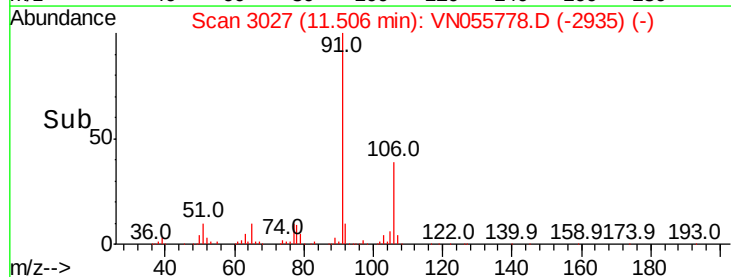
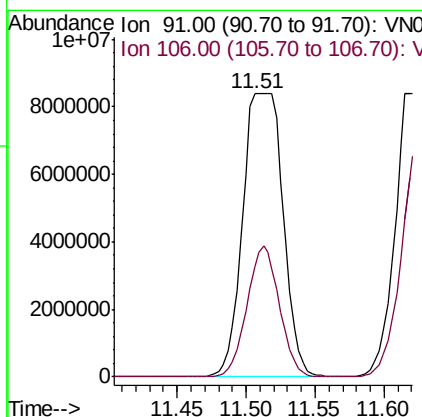
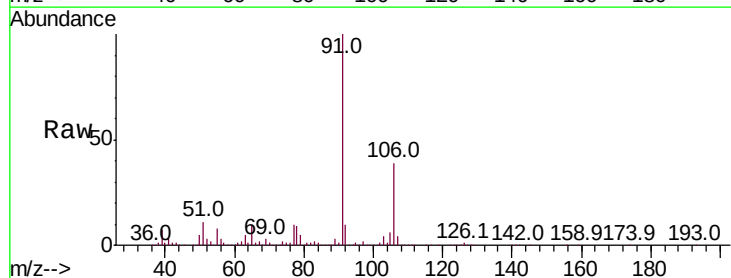
Manual Integrations
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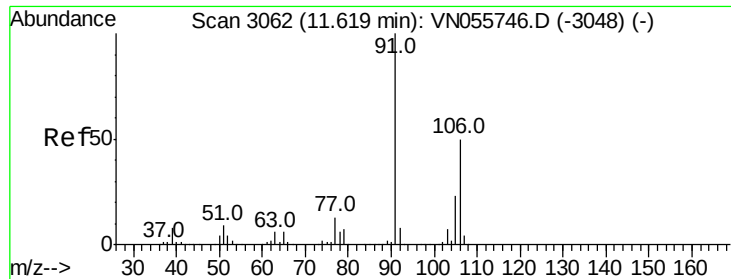
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5/24/2019 9:53:09 AM



#67
Ethyl Benzene
Concen: 1006.118 ug/l m
RT: 11.51 min Scan# 3027
Delta R.T. -0.00 min
Lab File: VN055778.D
Acq: 24 May 2019 1:33

Tgt Ion	Ratio	Lower	Upper
91	100		
106	38.9	25.1	37.7#





#68

m/p-Xylenes

Concen: 2243.000 ug/l

RT: 11.63 min Scan# 3065

Delta R.T. 0.01 min

Lab File: VN055778.D

Acq: 24 May 2019 1:33

Instrument :

MSVOA_N

ClientSampleId :

P-1(9.5-10.0)

Tot Ion:106 Resp:14398524

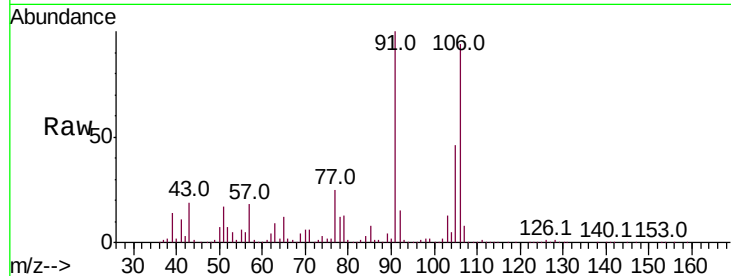
Ion Ratio Lower Upper

106 100

91 0.0 159.3 238.9#

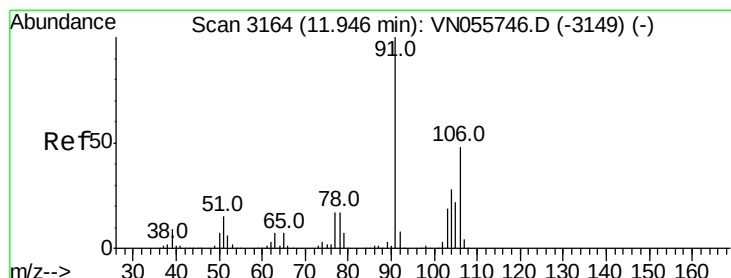
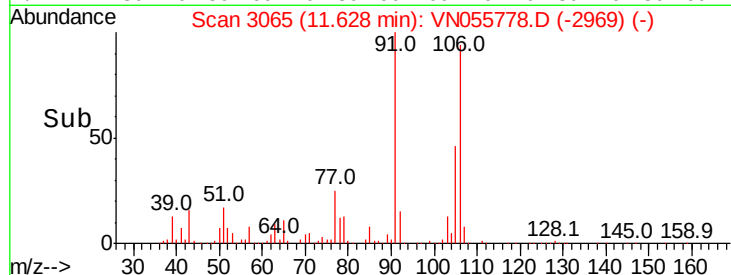
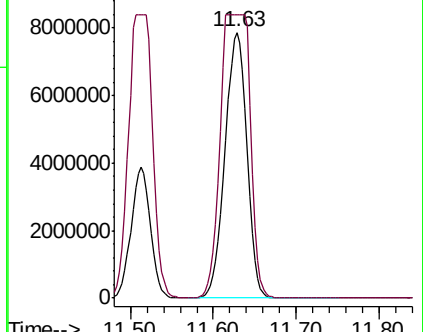
Manual Integrations
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5/24/2019 9:53:09 AM



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN



#69

o-Xylene

Concen: 8.611 ug/l

RT: 11.95 min Scan# 3164

Delta R.T. 0.00 min

Lab File: VN055778.D

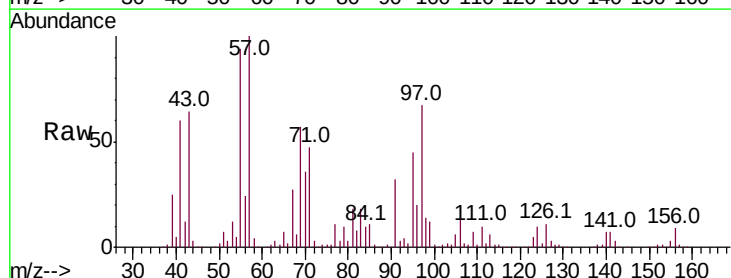
Acq: 24 May 2019 1:33

Tgt Ion:106 Resp: 54844

Ion Ratio Lower Upper

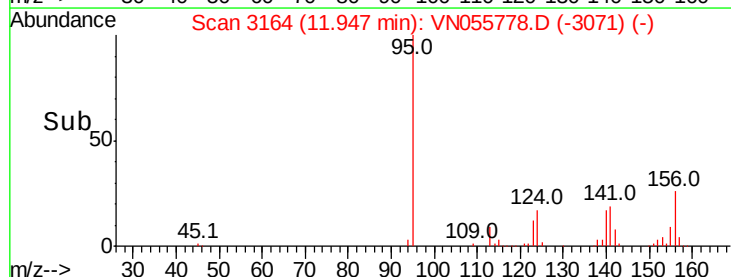
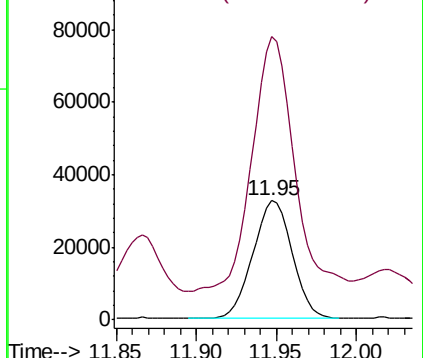
106 100

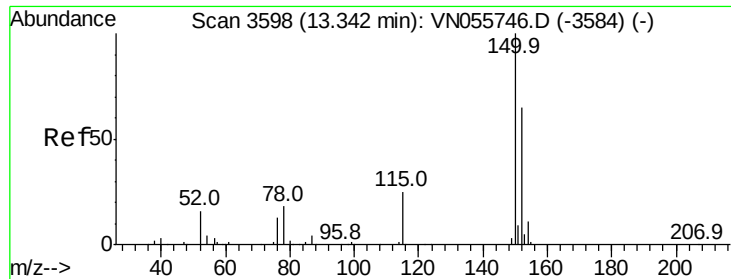
91 232.6 104.7 314.1



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: VN055778.D

Acq: 24 May 2019 1:33

Instrument :

MSVOA_N

ClientSampled :

P-1(9.5-10.0)

Tot Ion:152 Resp: 276296

Ion Ratio Lower Upper

152 100

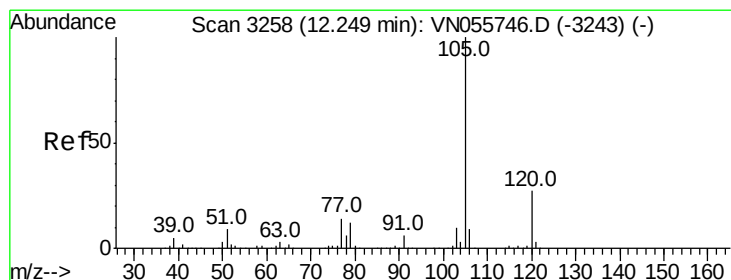
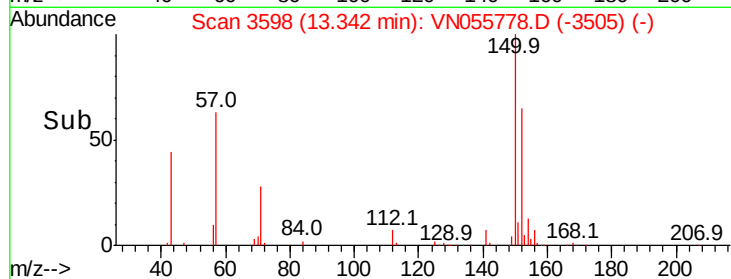
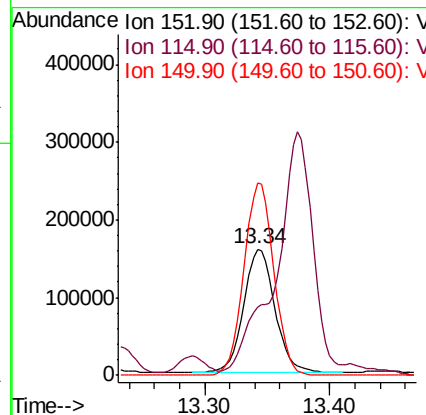
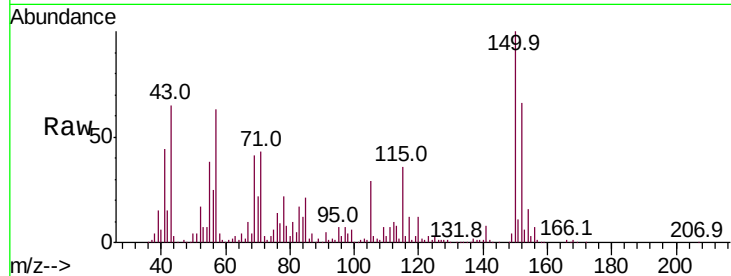
115 0.0 27.0 81.0#

150 147.9 0.0 343.2

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#73

Isopropylbenzene

Concen: 441.467 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN055778.D

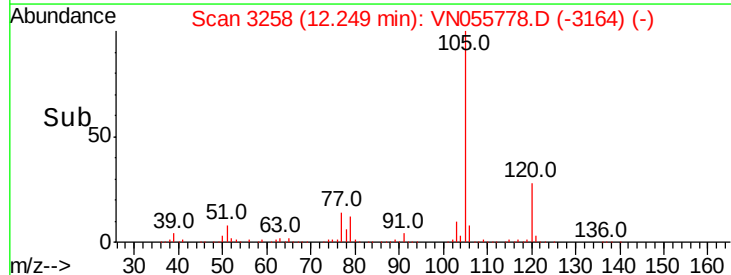
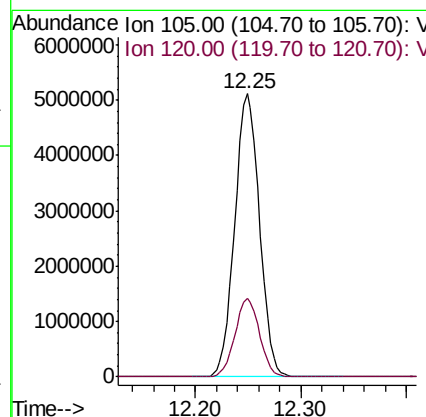
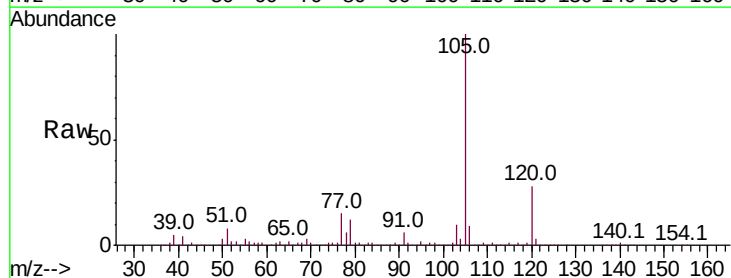
Acq: 24 May 2019 1:33

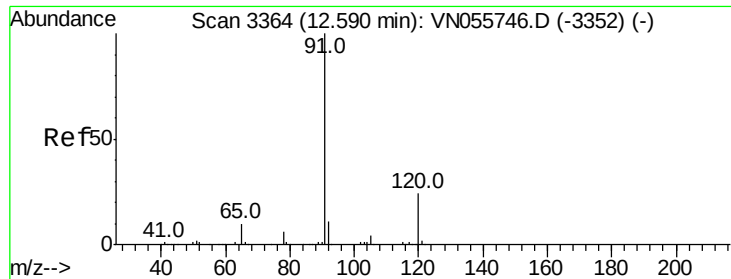
Tgt Ion:105 Resp: 8266184

Ion Ratio Lower Upper

105 100

120 27.7 13.6 40.7





#78

n-propylbenzene

Concen: 365.120 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN055778.D

Acq: 24 May 2019 1:33

Instrument :

MSVOA_N

ClientSampleId :

P-1(9.5-10.0)

Tot Ion: 91 Resp: 8767969

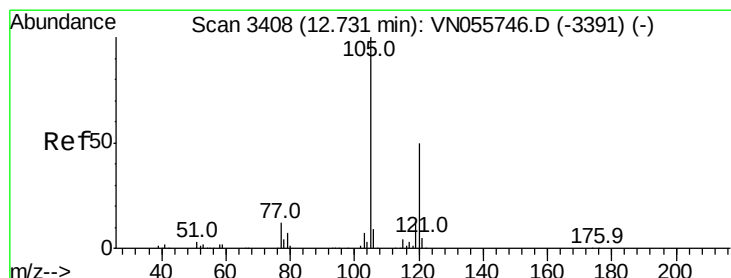
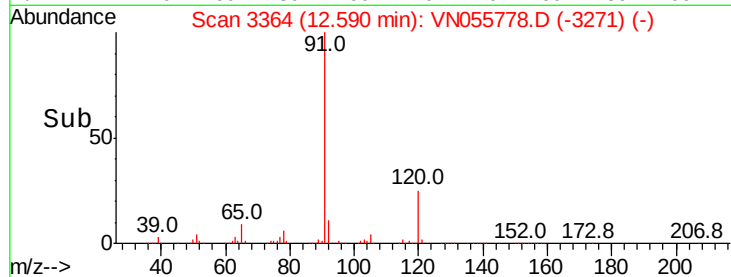
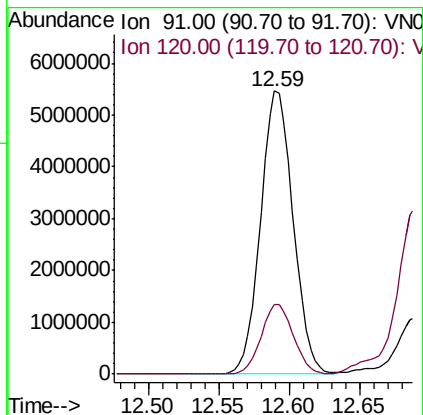
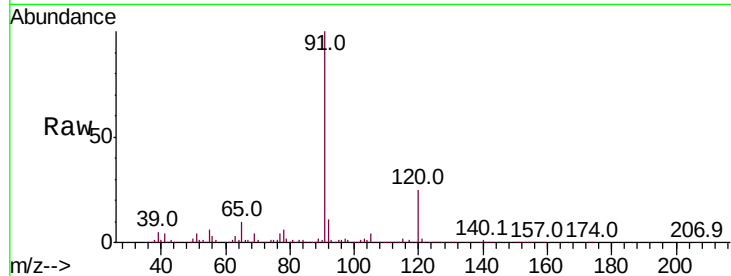
Ion Ratio Lower Upper

91 100

120 24.6 12.0 36.0

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#80

1,3,5-Trimethylbenzene

Concen: 565.738 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN055778.D

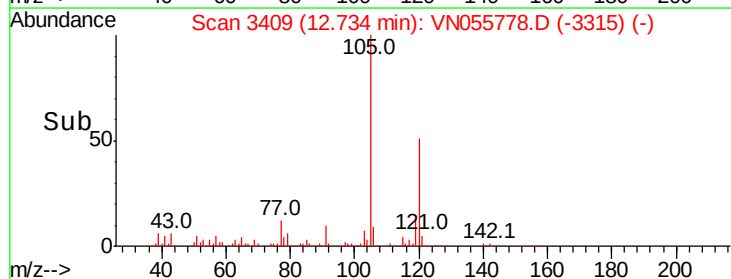
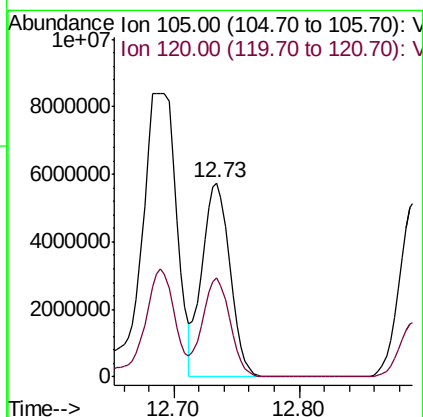
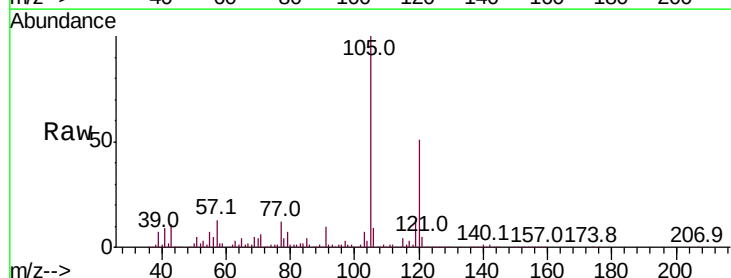
Acq: 24 May 2019 1:33

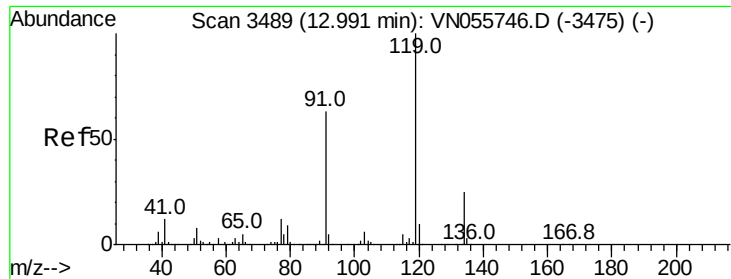
Tgt Ion:105 Resp: 8922378

Ion Ratio Lower Upper

105 100

120 50.2 24.7 74.1





#83

tert-Butylbenzene

Concen: 5.125 ug/l m

RT: 12.99 min Scan# 3490

Delta R.T. 0.00 min

Lab File: VN055778.D

Acq: 24 May 2019 1:33

Instrument :

MSVOA_N

ClientSampleId :

P-1(9.5-10.0)

Tot Ion:119 Resp: 112121

Ion Ratio Lower Upper

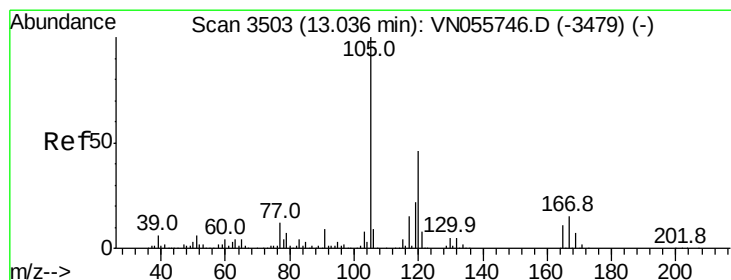
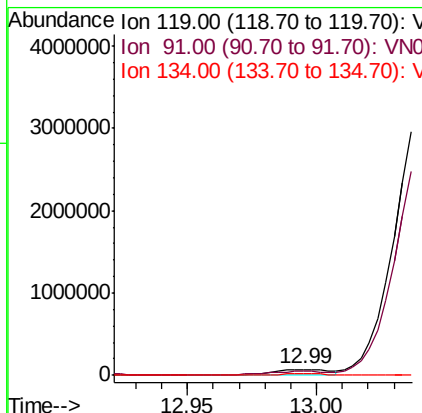
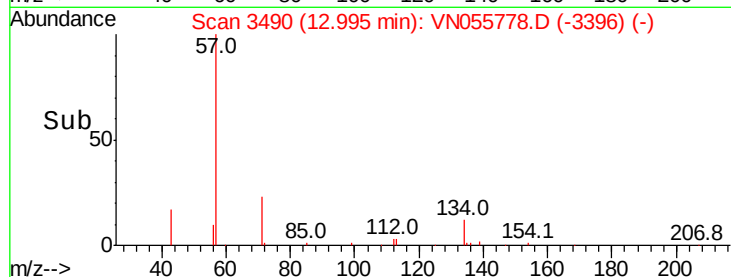
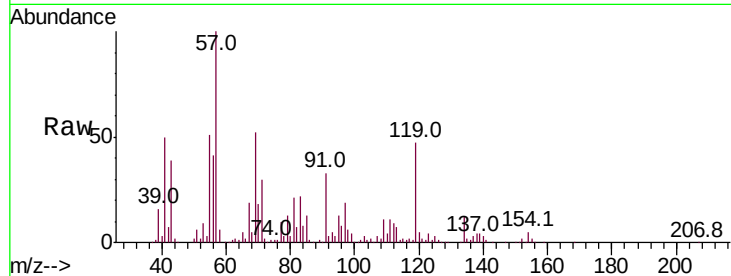
119 100

91 4418.7 30.9 92.8

134 0.0 13.3 39.8#

Manual Integrations
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#84

1,2,4-Trimethylbenzene

Concen: 1448.085 ug/l m

RT: 13.03 min Scan# 3500

Delta R.T. -0.01 min

Lab File: VN055778.D

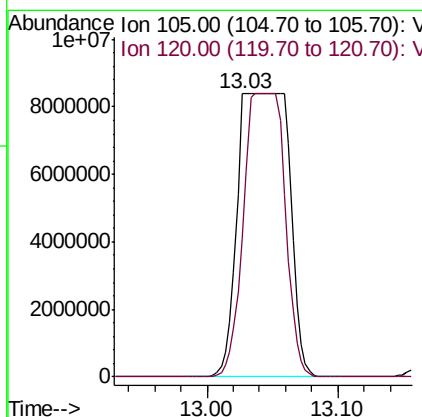
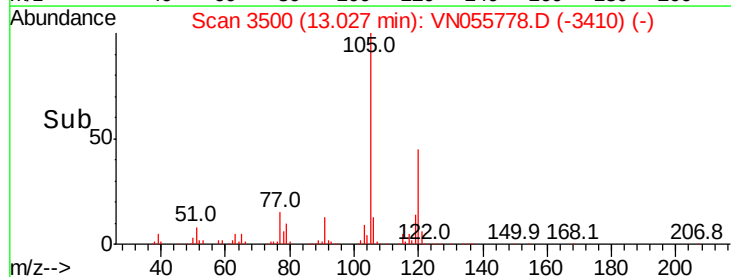
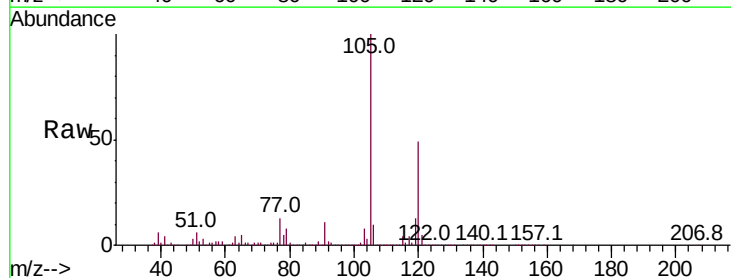
Acq: 24 May 2019 1:33

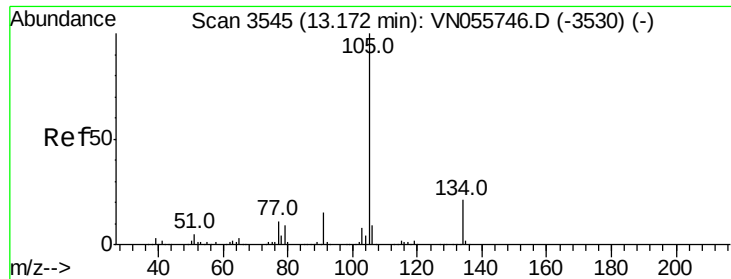
Tgt Ion:105 Resp:22835776

Ion Ratio Lower Upper

105 100

120 11.7 23.0 69.0#





#85

sec-Butylbenzene

Concen: 52.841 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN055778.D

Acq: 24 May 2019 1:33

Instrument :

MSVOA_N

ClientSampleId :

P-1(9.5-10.0)

Tot Ion:105 Resp: 980331

Ion Ratio Lower Upper

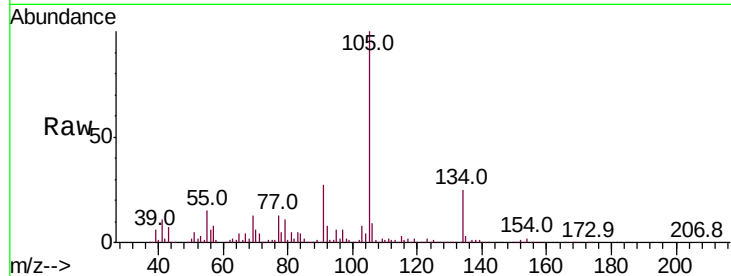
105 100

134 42.0 10.4 31.2#

Manual Integrations
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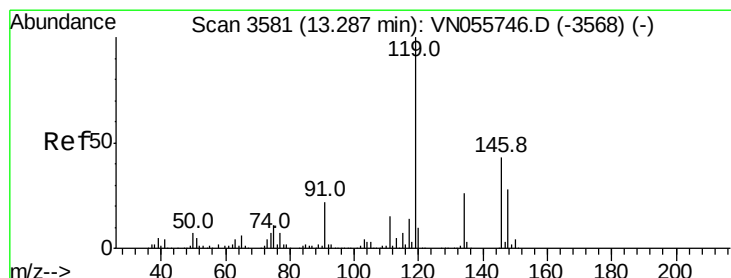
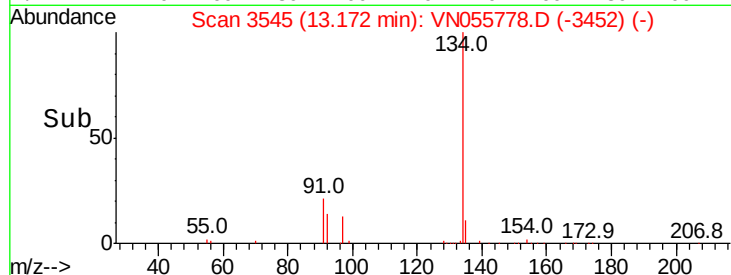
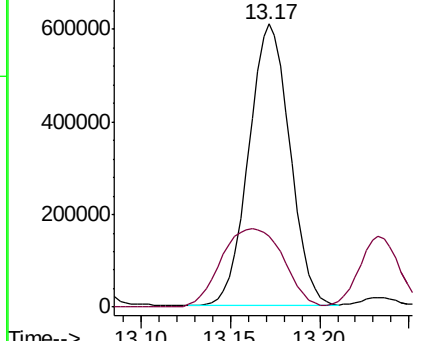
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 26.367 ug/l m

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN055778.D

Acq: 24 May 2019 1:33

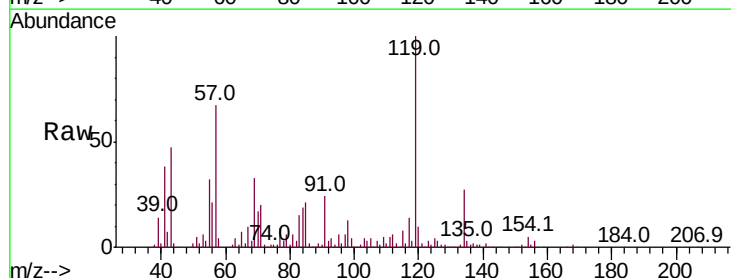
Tgt Ion:119 Resp: 505922

Ion Ratio Lower Upper

119 100

134 47.2 13.4 40.1#

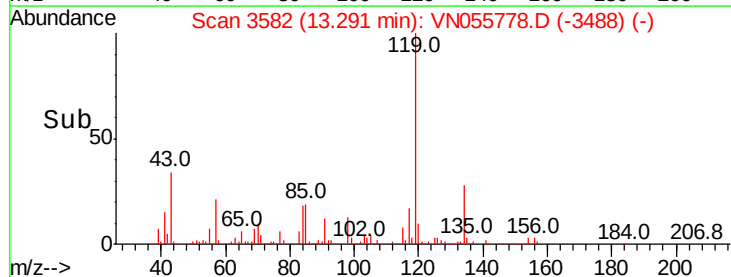
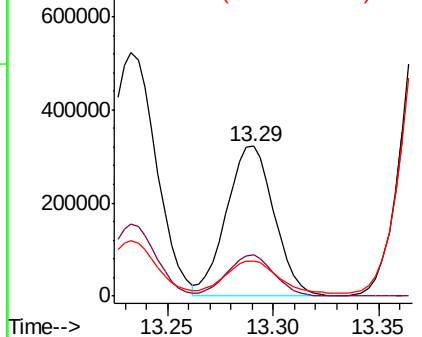
91 32.1 10.9 32.9

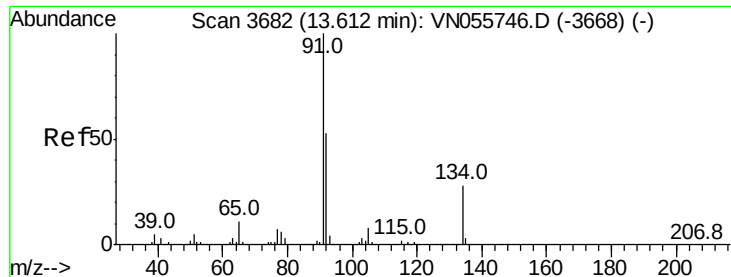


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#89

n-Butylbenzene

Concen: 129.042 ug/l m

RT: 13.61 min Scan# 3682

Delta R.T. 0.00 min

Lab File: VN055778.D

Acq: 24 May 2019 1:33

Instrument :

MSVOA_N

ClientSampled :

P-1(9.5-10.0)

Tot Ion: 91 Resp: 1897134

Ion Ratio Lower Upper

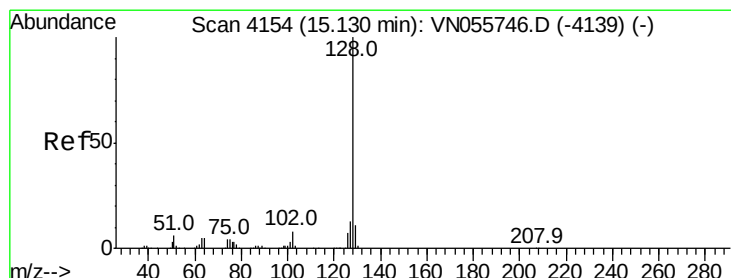
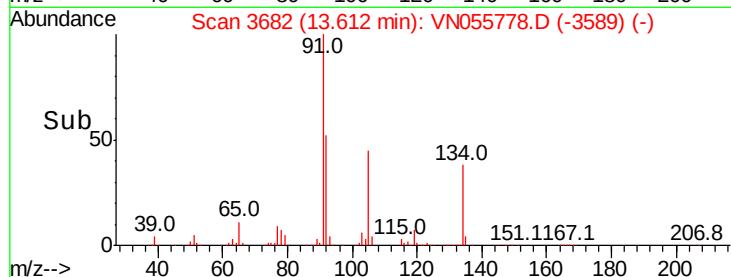
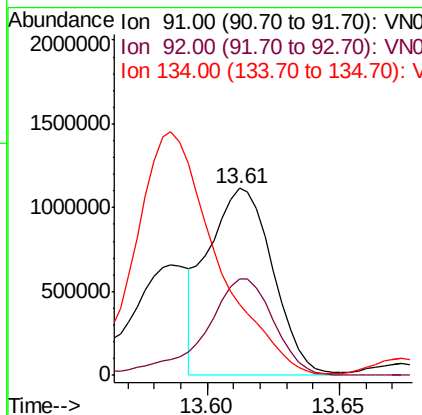
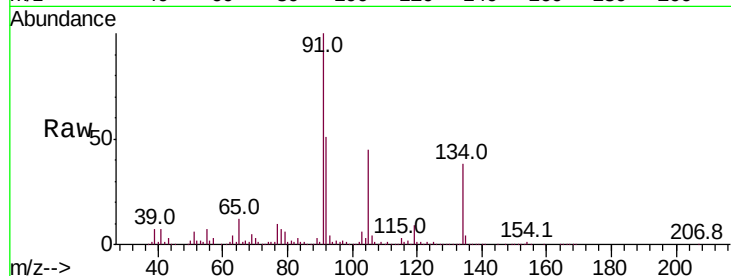
91 100

92 15.0 26.4 79.0#

134 19.4 13.9 41.7

Manual Integrations
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#95

Naphthalene

Concen: 473.651 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN055778.D

Acq: 24 May 2019 1:33

Tgt Ion:128 Resp: 6053818

Ion Ratio Lower Upper

128 100

127 12.8 10.3 15.5

129 10.9 8.7 13.1

