

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120420\
 Data File : VN064929.D
 Acq On : 4 Dec 2020 19:19
 Operator : JC/MD
 Sample : L4954-12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SS013-13-FD02-120120

Manual Integrations
 APPROVED

MMDadoda
 12/7/2020 10:45:58 AM

Quant Time: Dec 05 03:21:23 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112320W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 23 13:54:12 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	191031	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	326503	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	338272	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	169213	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	105661	47.58	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	95.16%
35) Dibromofluoromethane	7.55	113	101847	52.13	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	104.26%
50) Toluene-d8	10.06	98	427962	53.61	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	107.22%
62) 4-Bromofluorobenzene	12.37	95	167912	58.78	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	117.56%

Target Compounds

						Qvalue
31) Cyclohexane	7.61	56	645089	208.406	ug/l	95
39) Methylcyclohexane	9.05	83	572261	175.654	ug/l	98
40) Benzene	8.00	78	7910	0.853	ug/l	96
52) Toluene	10.13	92	5713	1.000	ug/l	93
67) Ethyl Benzene	11.48	91	3958162	326.164	ug/l	95
68) m/p-Xylenes	11.59	106	282244	61.430	ug/l	99
69) o-Xylene	11.92	106	28175	6.462	ug/l	95
73) Isopropylbenzene	12.22	105	777071	66.022	ug/l	100
78) n-propylbenzene	12.56	91	1004642	74.927	ug/l	99
80) 1,3,5-Trimethylbenzene	12.71	105	378296	38.668	ug/l	99
83) tert-Butylbenzene	12.97	119	17433m	2.126	ug/l	
84) 1,2,4-Trimethylbenzene	13.01	105	5335073	539.363	ug/l	92
85) sec-Butylbenzene	13.14	105	121638m	11.172	ug/l	
86) p-Isopropyltoluene	13.26	119	136774	13.798	ug/l	100
89) n-Butylbenzene	13.59	91	98604	11.327	ug/l #	72
95) Naphthalene	15.10	128	2261654	220.457	ug/l	99

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

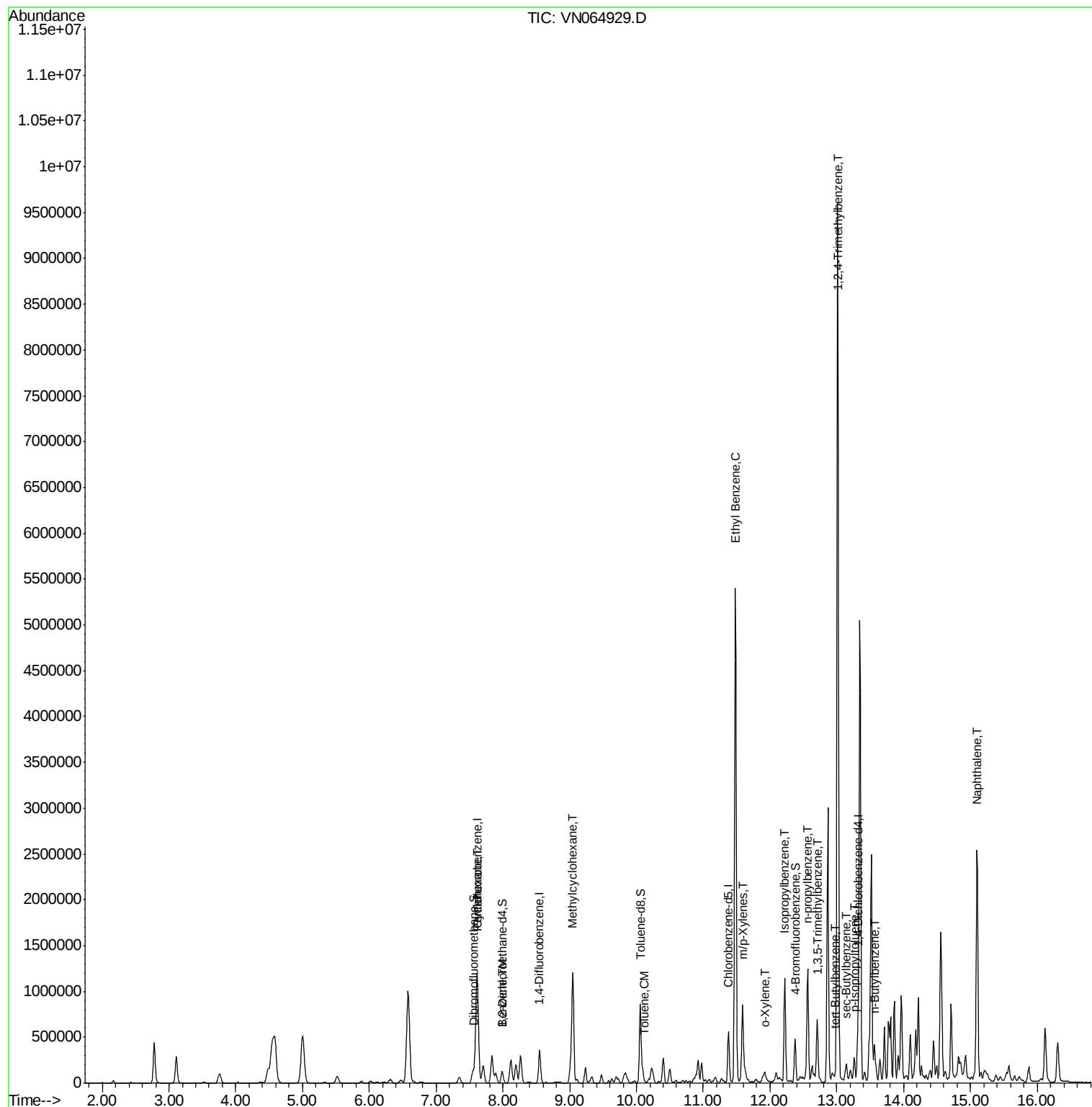
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120420\
Data File : VN064929.D
Acq On : 4 Dec 2020 19:19
Operator : JC/MD
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ALS Vial : 22 Sample Multiplier: 1

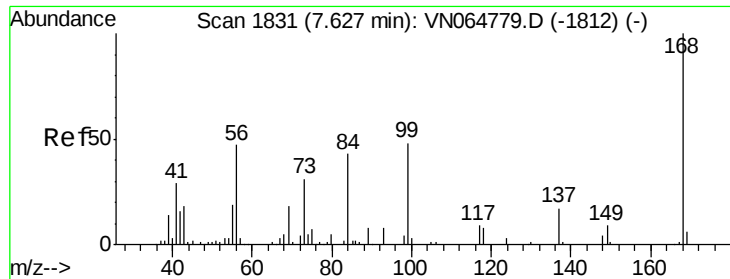
Instrument :
MSVOA_N
ClientSampleId :
SS013-13-FD02-120120

Manual Integrations
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Quant Time: Dec 05 03:21:23 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112320W.M
Quant Title : SW846 8260
QLast Update : Mon Nov 23 13:54:12 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN064929.D

Acq: 4 Dec 2020 19:19

Instrument :

MSVOA_N

ClientSampleId :

SS013-13-FD02-120120

Tot Ion:168 Resp: 191031

Ion Ratio Lower Upper

168 100

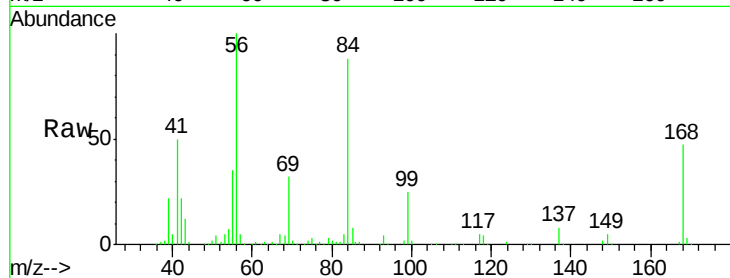
99 52.8 43.0 64.4

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

80000

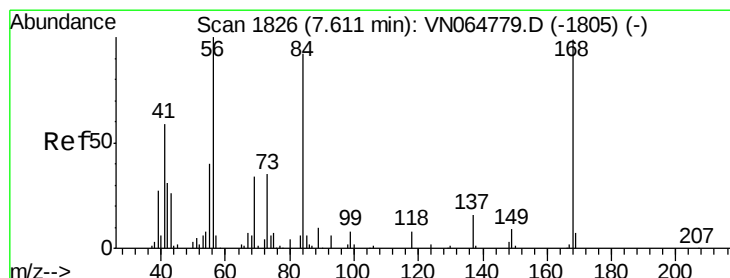
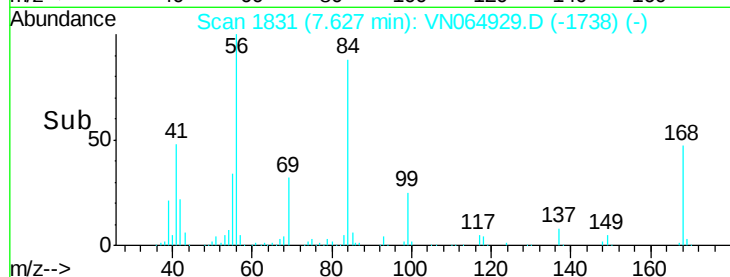
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#31

Cyclohexane

Concen: 208.406 ug/l

RT: 7.61 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN064929.D

Acq: 4 Dec 2020 19:19

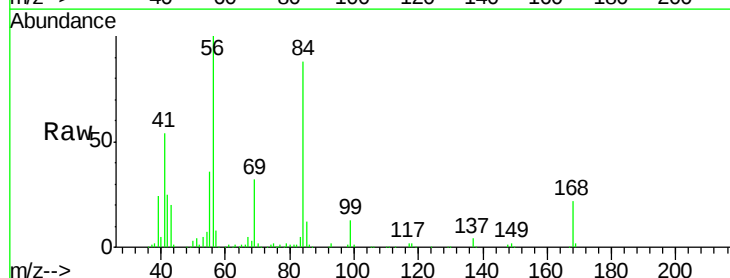
Tgt Ion: 56 Resp: 645089

Ion Ratio Lower Upper

56 100

69 31.6 27.5 41.3

84 87.8 73.9 110.9



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

7.61

300000

250000

200000

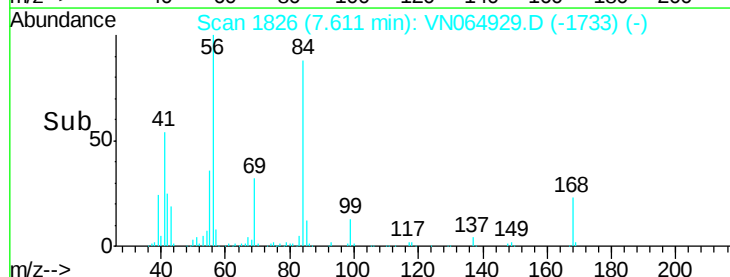
150000

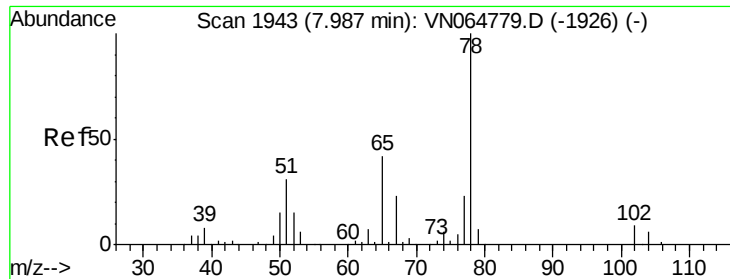
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50000

0

Time--> 7.50 7.55 7.60 7.65 7.70





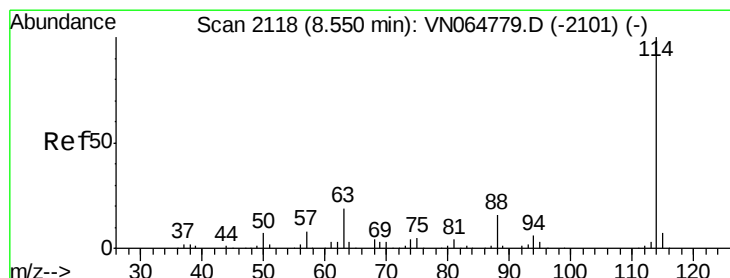
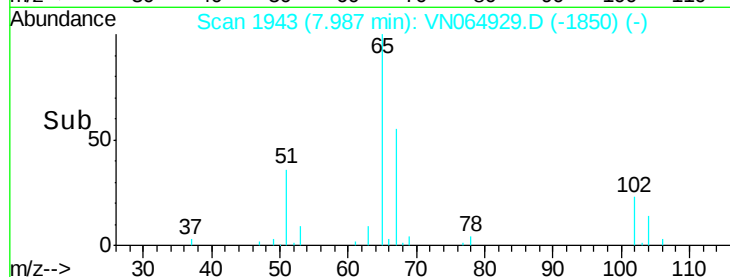
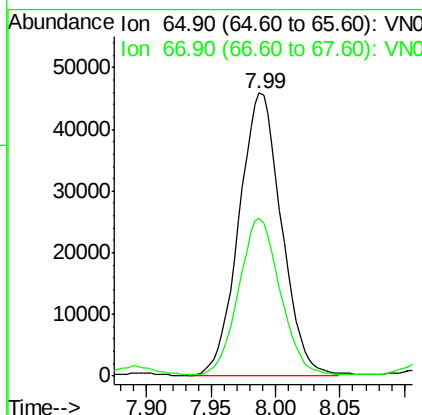
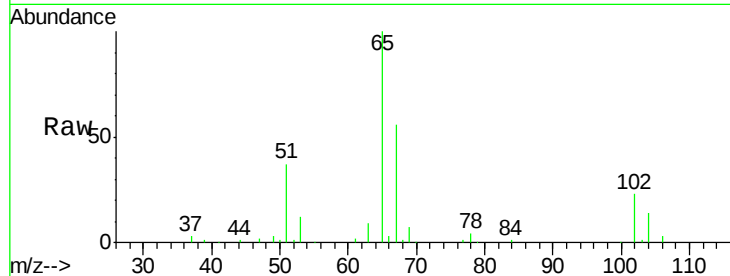
#33
 1,2-Dichloroethane-d4
 Concen: 47.577 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. 0.00 min
 Lab File: VN064929.D
 Acq: 4 Dec 2020 19:19

Instrument :
 MSVOA_N
 ClientSampleId :
 SS013-13-FD02-120120

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	53.6	0.0	108.2	

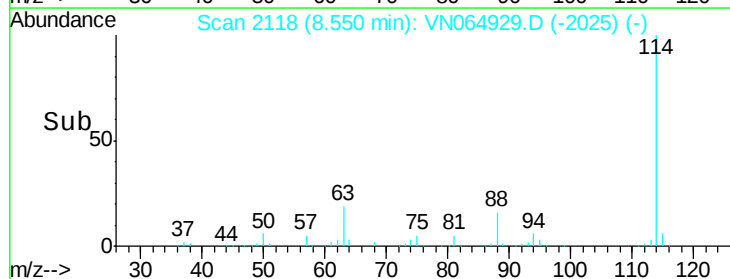
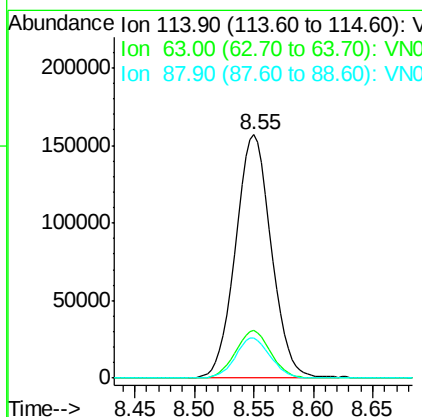
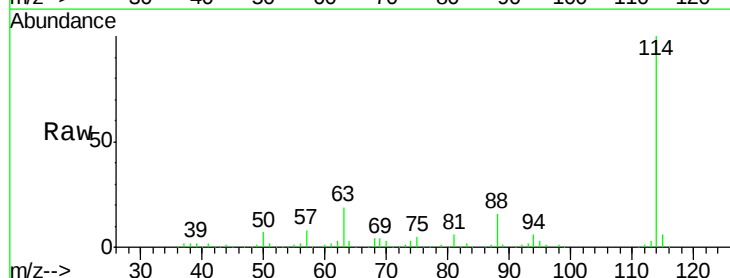
Manual Integrations
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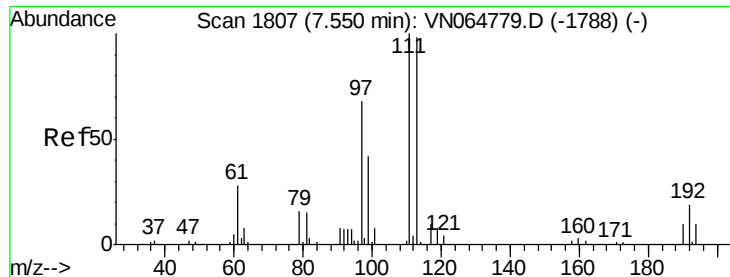
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN064929.D
 Acq: 4 Dec 2020 19:19

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	19.5	0.0	38.6	
88	16.3	0.0	32.6	





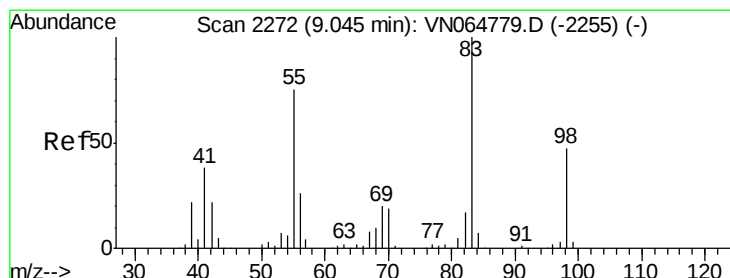
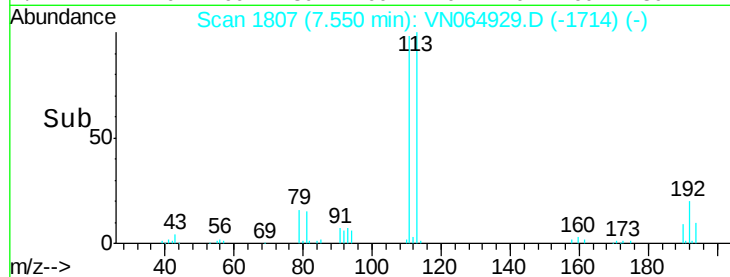
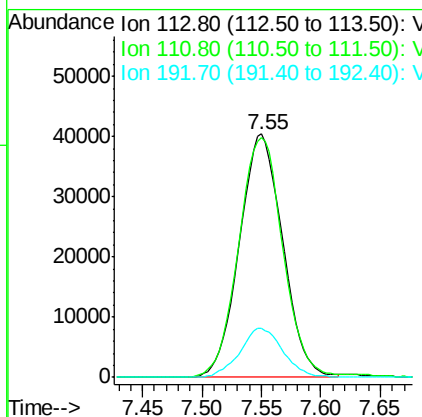
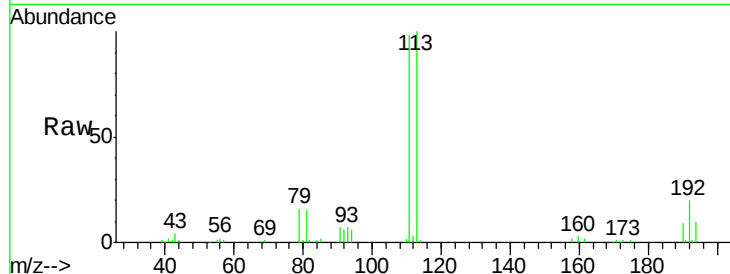
#35
Dibromofluoromethane
Concen: 52.131 ug/l
RT: 7.55 min Scan# 1807
Delta R.T. 0.00 min
Lab File: VN064929.D
Acq: 4 Dec 2020 19:19

Instrument :
MSVOA_N
ClientSampleId :
SS013-13-FD02-120120

Tot Ion	Ratio	Resp	Lower	Upper
113	100	101847		
111	100.9	81.6	122.4	
192	19.9	16.2	24.2	

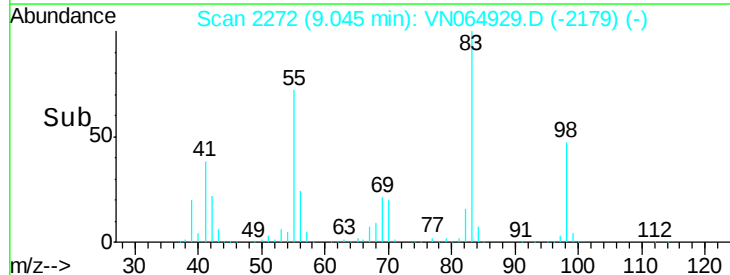
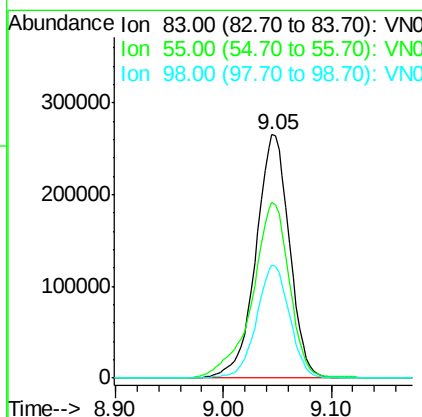
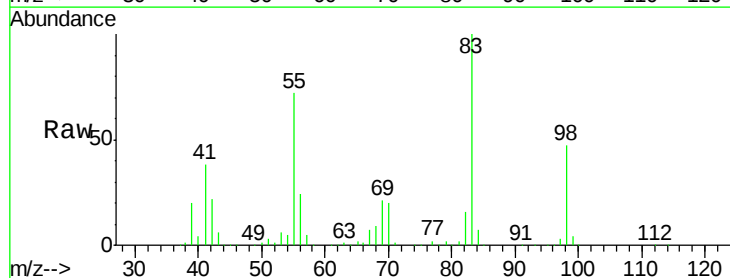
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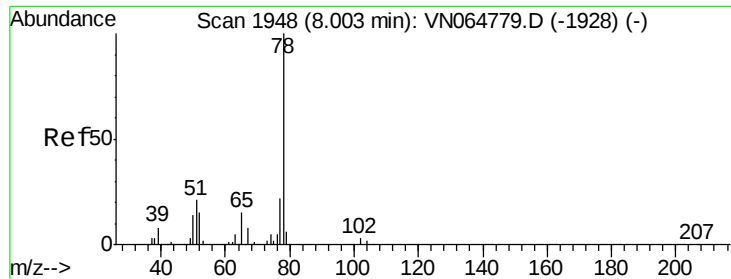
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#39
Methylcyclohexane
Concen: 175.654 ug/l
RT: 9.05 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VN064929.D
Acq: 4 Dec 2020 19:19

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	572261		
55	72.2	60.2	90.2	
98	46.6	37.4	56.2	





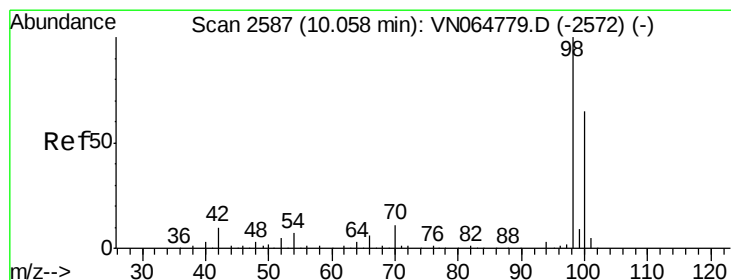
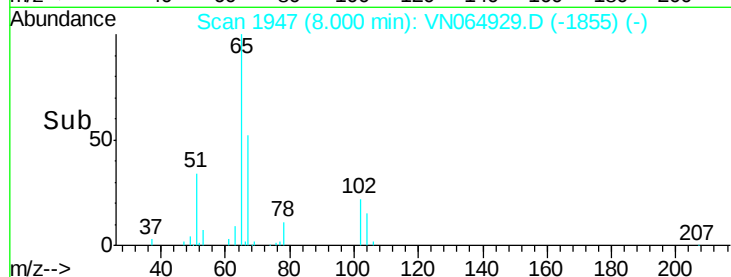
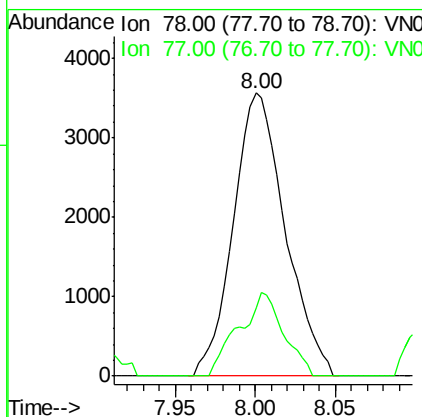
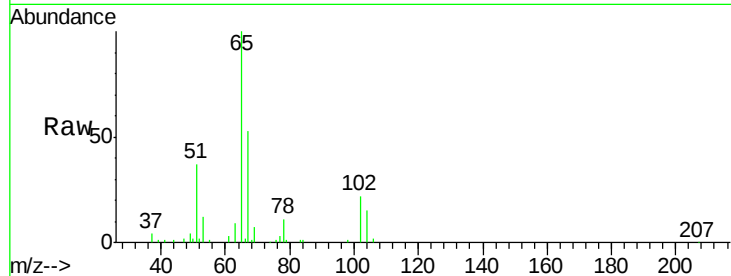
#40
Benzene
Concen: 0.853 ug/l
RT: 8.00 min Scan# 1947
Delta R.T. -0.00 min
Lab File: VN064929.D
Acq: 4 Dec 2020 19:19

Instrument :
MSVOA_N
ClientSampleId :
SS013-13-FD02-120120

Tot Ion: 78 Resp: 7910
Ion Ratio Lower Upper
78 100
77 24.3 17.9 26.9

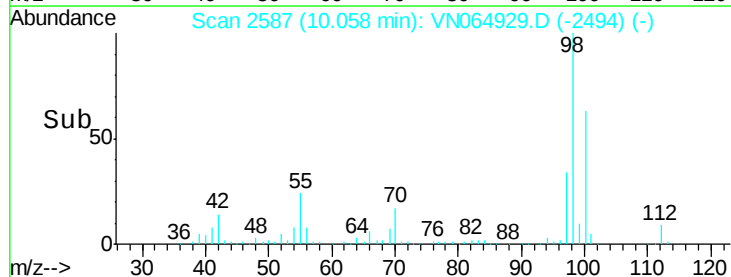
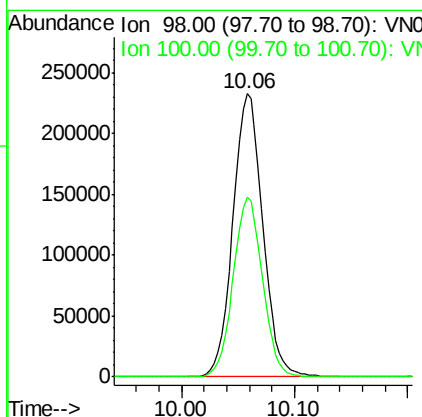
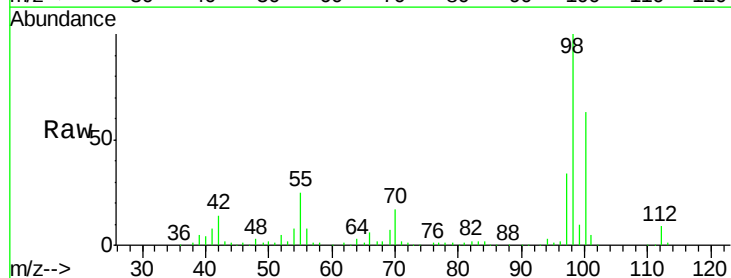
Manual Integrations
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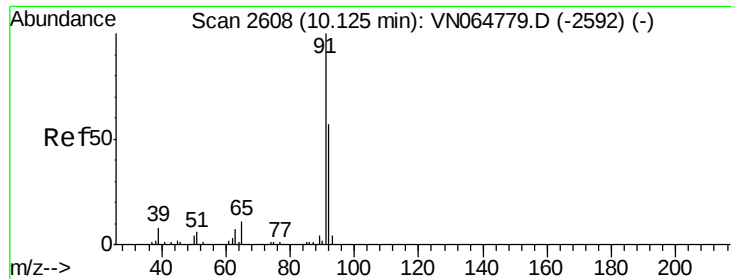
MMDadoda
12/7/2020 10:45:58 AM



#50
Toluene-d8
Concen: 53.612 ug/l
RT: 10.06 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN064929.D
Acq: 4 Dec 2020 19:19

Tgt Ion: 98 Resp: 427962
Ion Ratio Lower Upper
98 100
100 62.1 51.7 77.5





#52

Toluene

Concen: 1.000 ug/l

RT: 10.13 min Scan# 2608

Delta R.T. 0.00 min

Lab File: VN064929.D

Acq: 4 Dec 2020 19:19

Instrument :

MSVOA_N

ClientSampleId :

SS013-13-FD02-120120

Tot Ion: 92 Resp: 5713

Ion Ratio Lower Upper

92 100

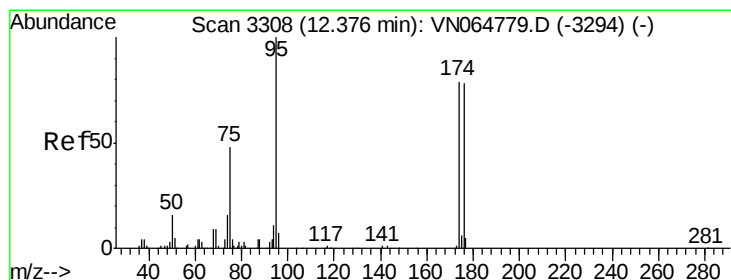
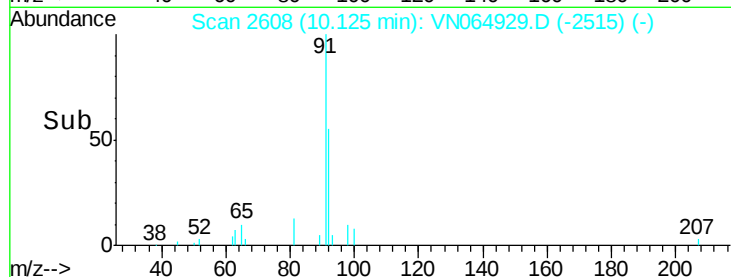
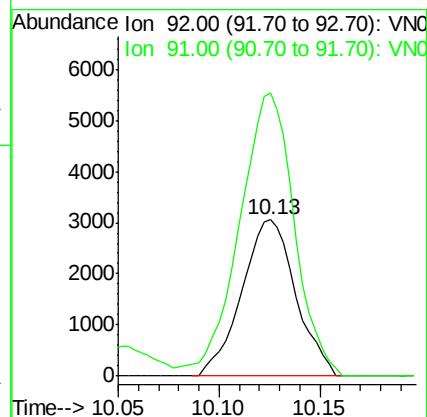
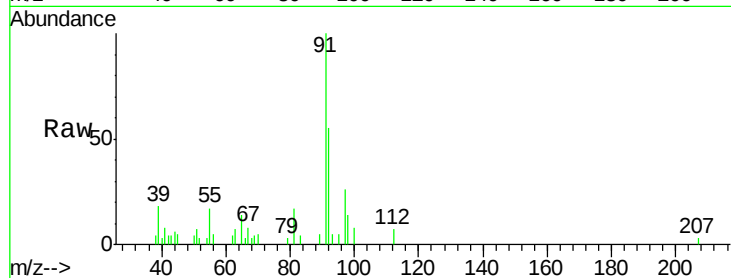
91 184.0 139.1 208.7

Manual Integrations

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#62

4-Bromofluorobenzene

Concen: 58.776 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. -0.00 min

Lab File: VN064929.D

Acq: 4 Dec 2020 19:19

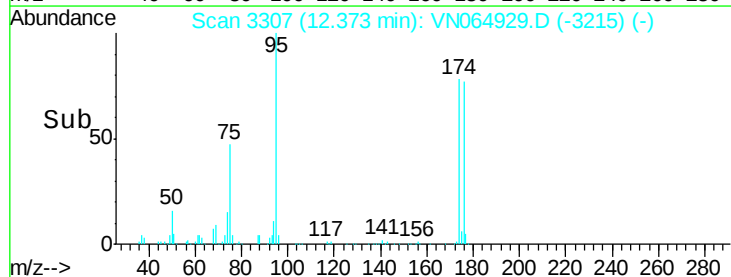
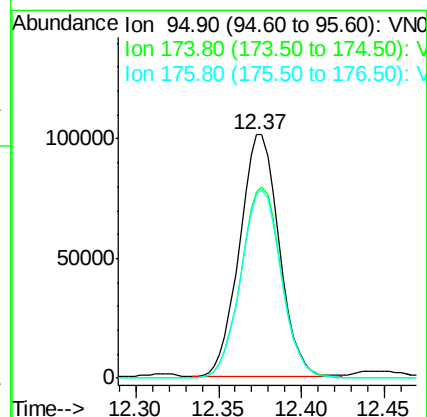
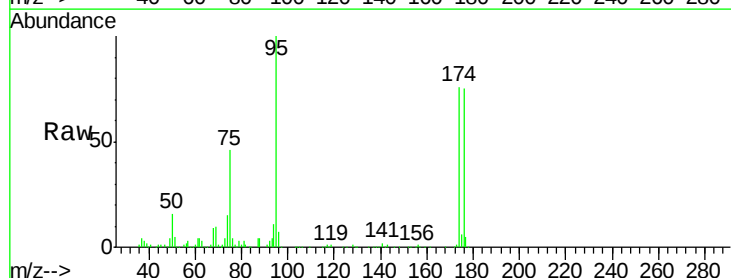
Tgt Ion: 95 Resp: 167912

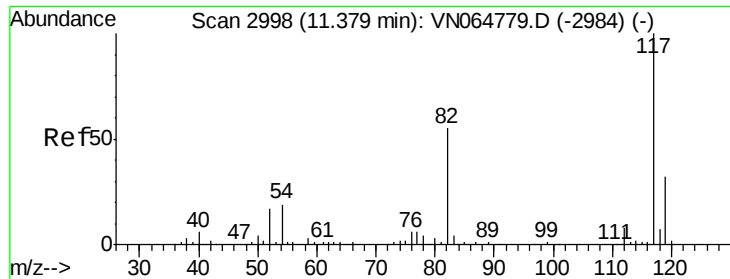
Ion Ratio Lower Upper

95 100

174 81.1 0.0 160.4

176 79.7 0.0 158.4





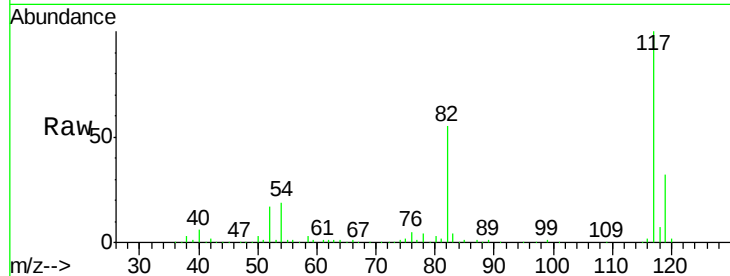
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN064929.D
Acq: 4 Dec 2020 19:19

Instrument :
MSVOA_N
ClientSampleId :
SS013-13-FD02-120120

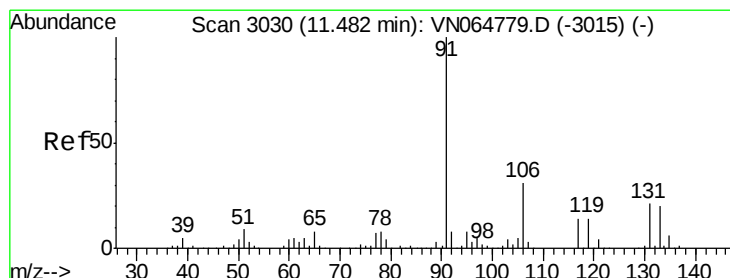
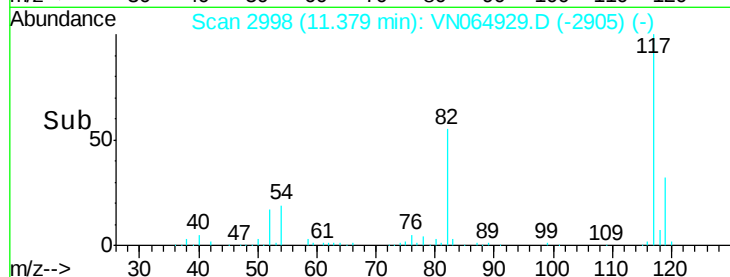
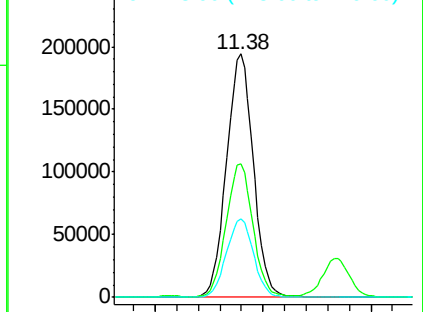
Tot Ion	Ratio	Lower	Upper
117	100		
82	54.6	44.2	66.2
119	32.3	25.8	38.6

Manual Integrations
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12/7/2020 10:45:58 AM

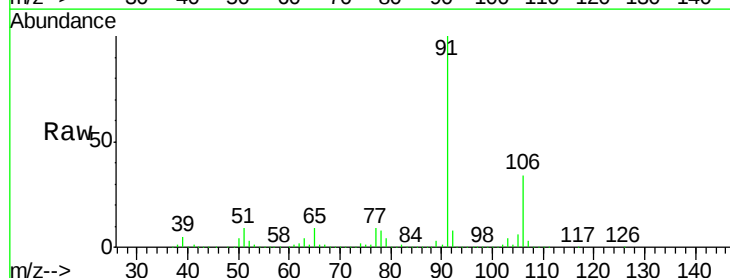


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

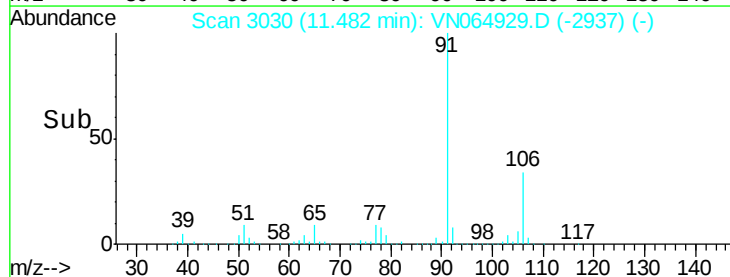
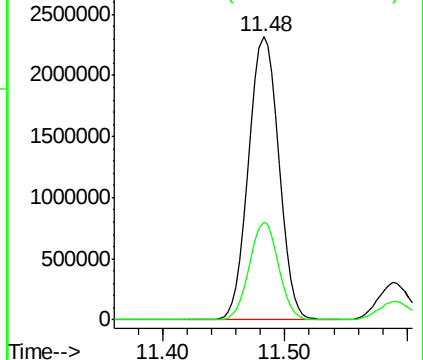


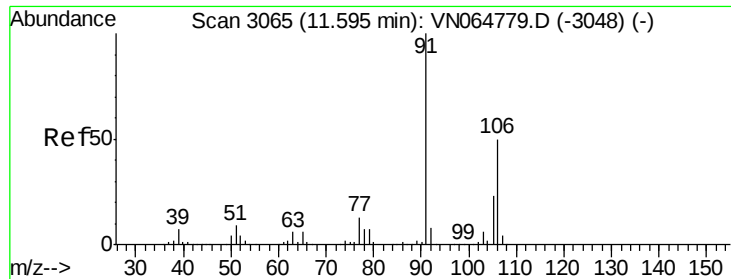
#67
Ethyl Benzene
Concen: 326.164 ug/l
RT: 11.48 min Scan# 3030
Delta R.T. 0.00 min
Lab File: VN064929.D
Acq: 4 Dec 2020 19:19

Tgt Ion	Ratio	Lower	Upper
91	100		
106	34.4	25.2	37.8



Abundance Ion 91.00 (90.70 to 91.70): V
Ion 106.00 (105.70 to 106.70): V





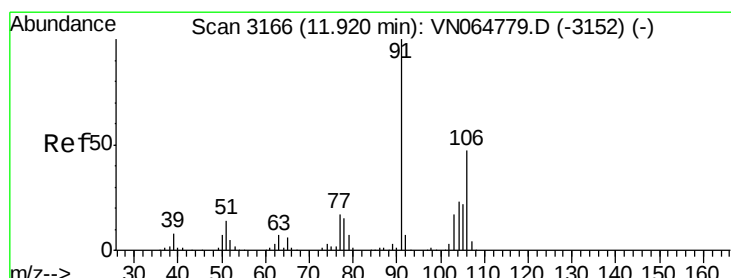
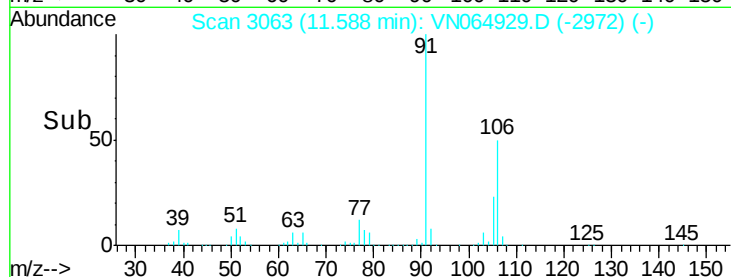
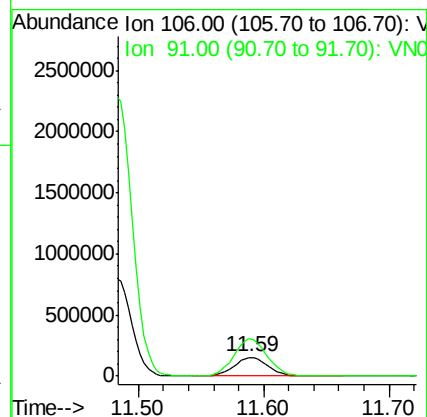
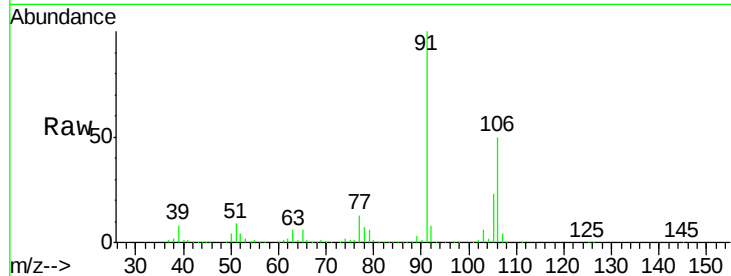
#68
m/p-Xylenes
Concen: 61.430 ug/l
RT: 11.59 min Scan# 3063
Delta R.T. -0.01 min
Lab File: VN064929.D
Acq: 4 Dec 2020 19:19

Instrument :
MSVOA_N
ClientSampleId :
SS013-13-FD02-120120

Tot Ion:106 Resp: 282244
Ion Ratio Lower Upper
106 100
91 199.7 161.0 241.4

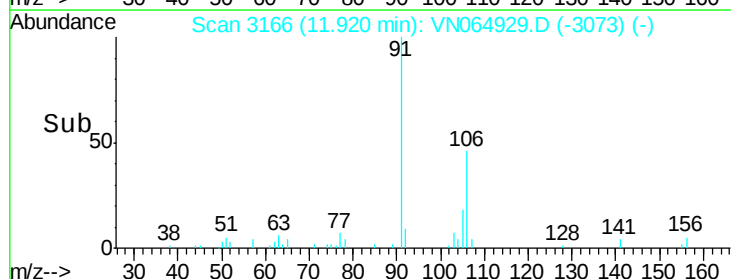
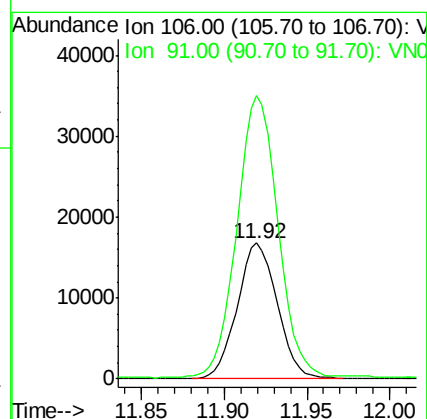
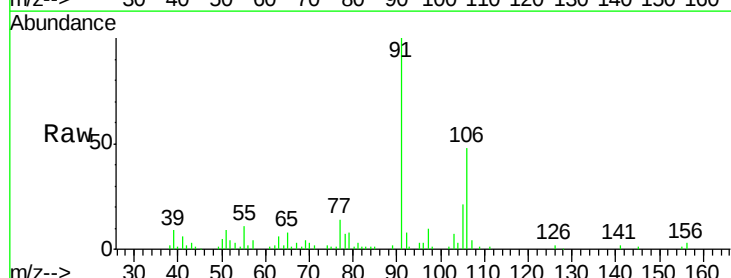
Manual Integrations
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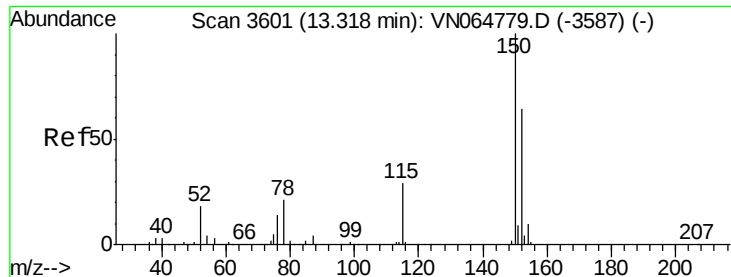
MMDadoda
12/7/2020 10:45:58 AM



#69
o-Xylene
Concen: 6.462 ug/l
RT: 11.92 min Scan# 3166
Delta R.T. 0.00 min
Lab File: VN064929.D
Acq: 4 Dec 2020 19:19

Tgt Ion:106 Resp: 28175
Ion Ratio Lower Upper
106 100
91 218.2 105.5 316.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3600

Delta R.T. -0.00 min

Lab File: VN064929.D

Acq: 4 Dec 2020 19:19

Instrument :

MSVOA_N

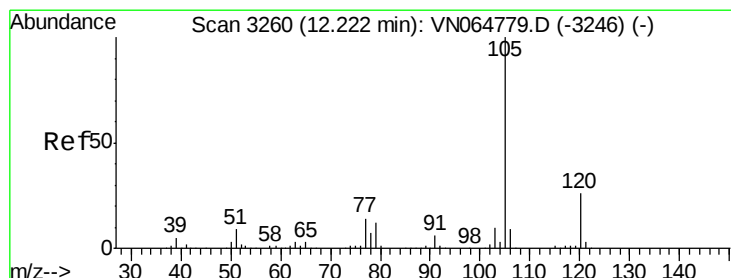
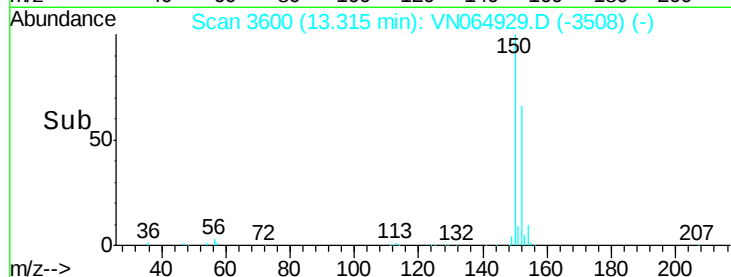
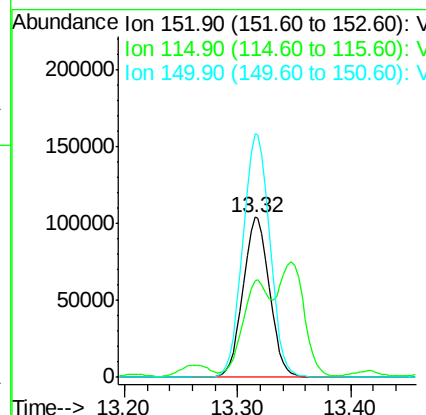
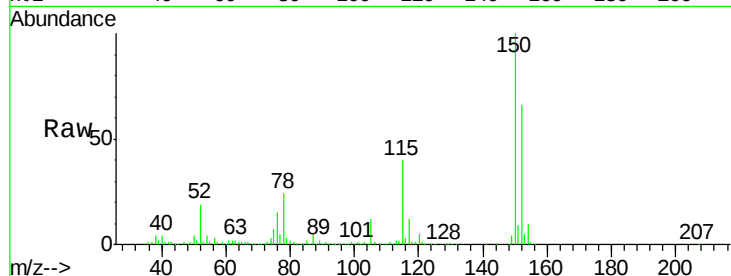
ClientSampleId :

SS013-13-FD02-120120

Tot Ion	Ratio	Resp	Lower	Upper
152	100	169213		
115	62.4	29.7	89.1	
150	156.2	0.0	350.6	

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#73

Isopropylbenzene

Concen: 66.022 ug/l

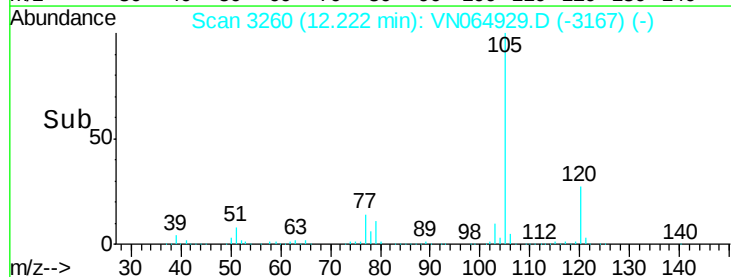
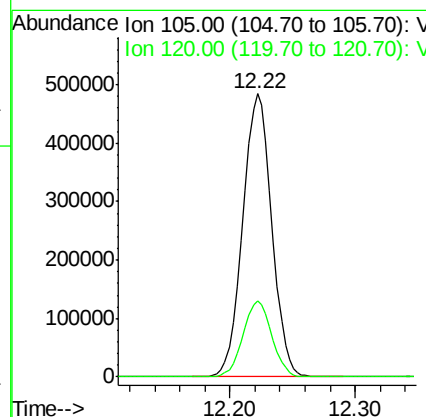
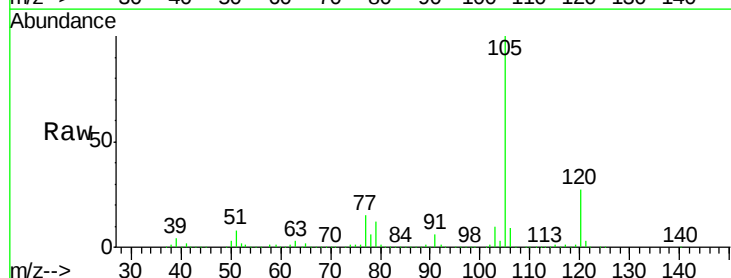
RT: 12.22 min Scan# 3260

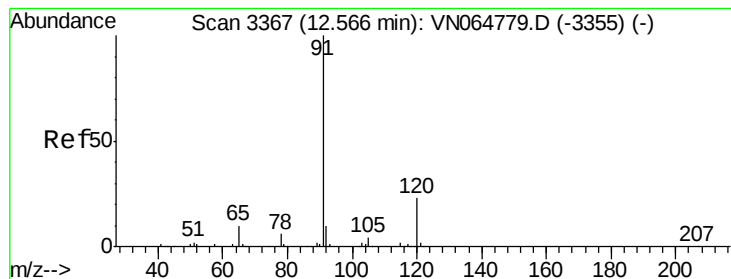
Delta R.T. 0.00 min

Lab File: VN064929.D

Acq: 4 Dec 2020 19:19

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	777071		
120	26.6	13.3	39.9	





#78

n-propylbenzene

Concen: 74.927 ug/l

RT: 12.56 min Scan# 3366

Delta R.T. -0.00 min

Lab File: VN064929.D

Acq: 4 Dec 2020 19:19

Instrument :

MSVOA_N

ClientSampleId :

SS013-13-FD02-120120

Tot Ion: 91 Resp: 1004642

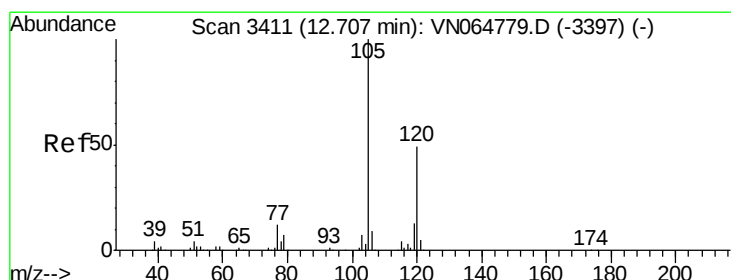
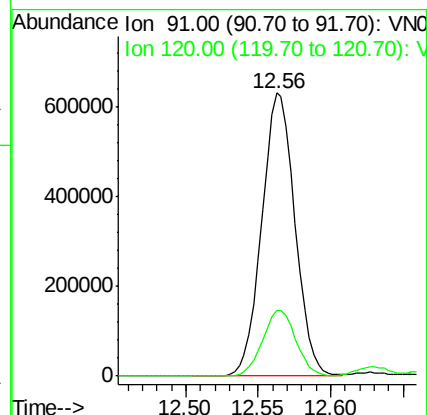
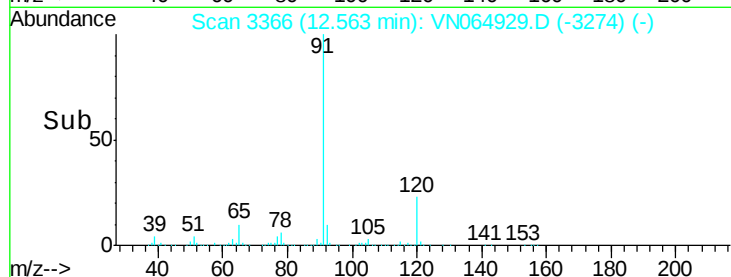
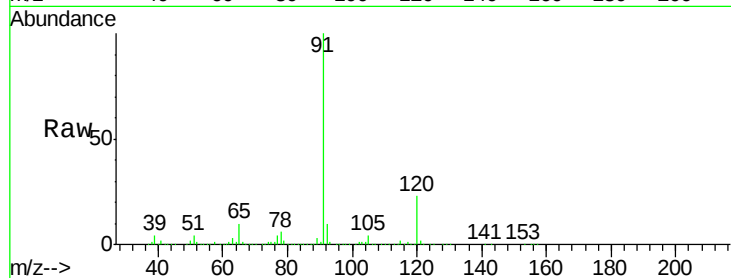
Ion Ratio Lower Upper

91 100

120 23.5 11.6 34.7

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#80

1,3,5-Trimethylbenzene

Concen: 38.668 ug/l

RT: 12.71 min Scan# 3411

Delta R.T. 0.00 min

Lab File: VN064929.D

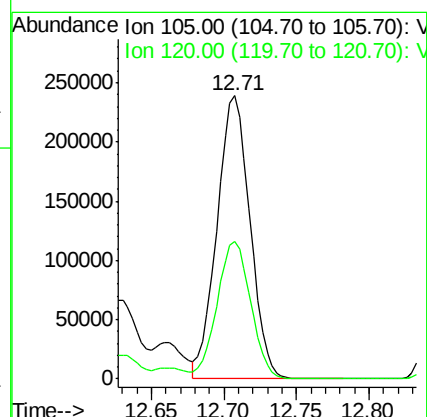
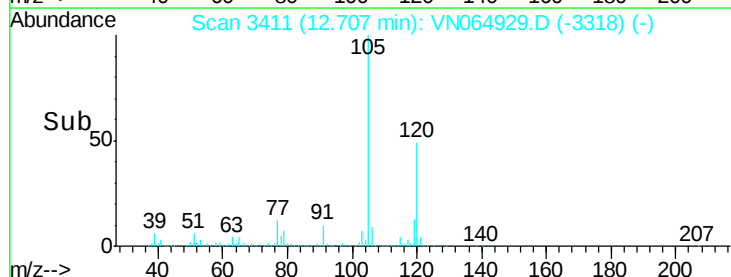
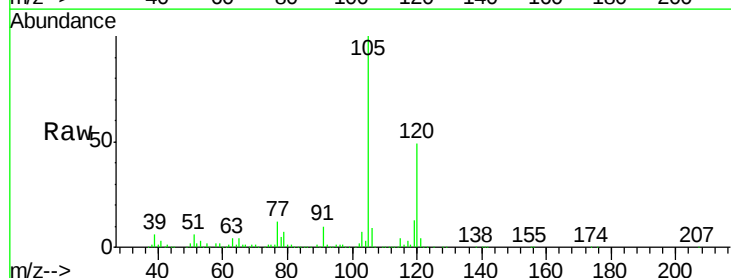
Acq: 4 Dec 2020 19:19

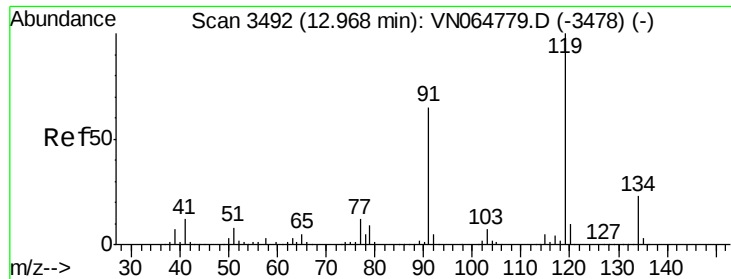
Tgt Ion: 105 Resp: 378296

Ion Ratio Lower Upper

105 100

120 50.0 24.6 73.6





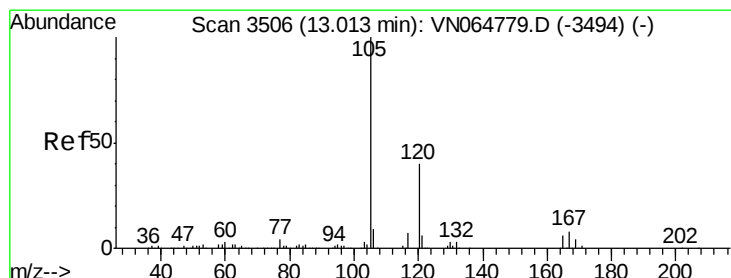
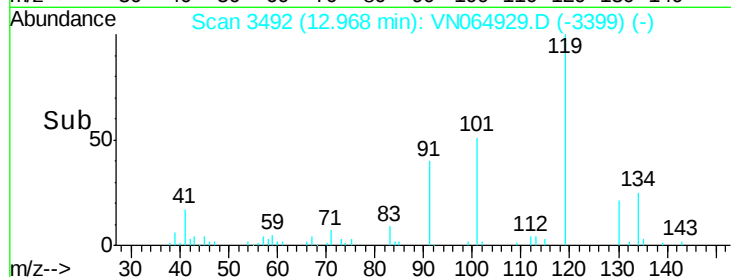
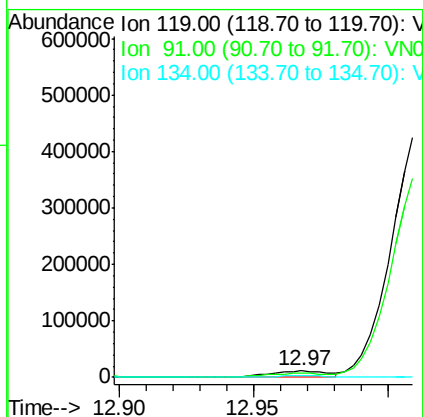
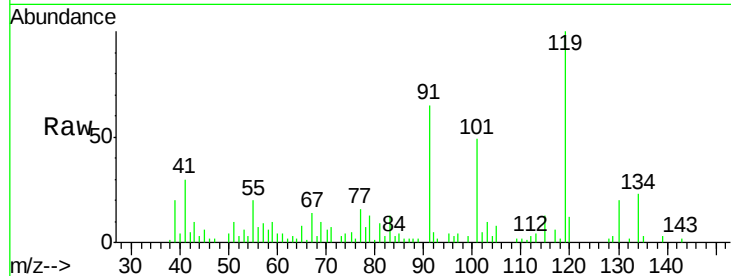
#83
 tert-Butylbenzene
 Concen: 2.126 ug/l m
 RT: 12.97 min Scan# 3492
 Delta R.T. 0.00 min
 Lab File: VN064929.D
 Acq: 4 Dec 2020 19:19

Instrument :
 MSVOA_N
 ClientSampleId :
 SS013-13-FD02-120120

Tot Ion:119 Resp: 17433
 Ion Ratio Lower Upper
 119 100
 91 3426.0 32.3 96.8
 134 0.0 12.6 37.6#

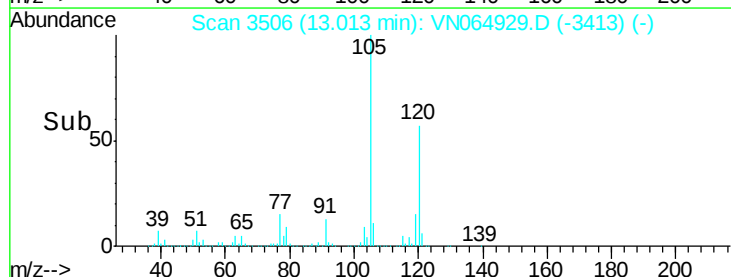
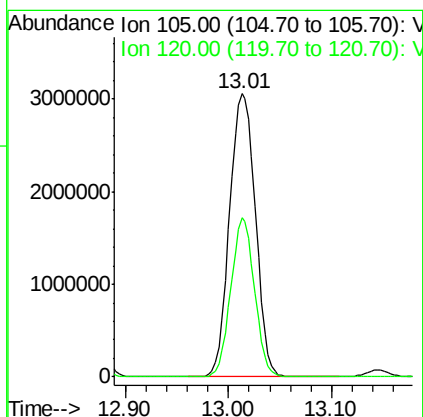
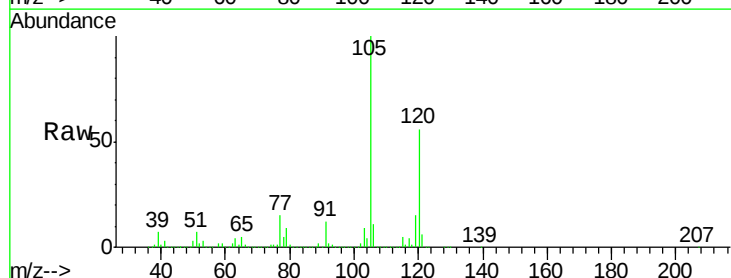
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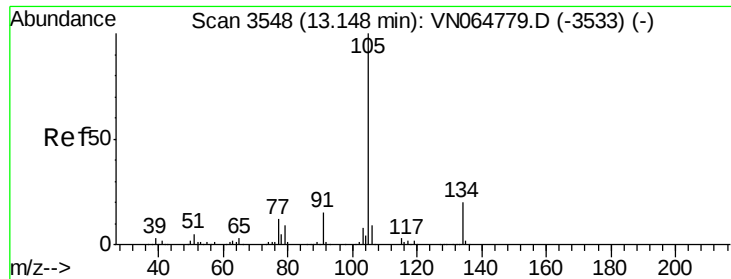
MMDadoda
 12/7/2020 10:45:58 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 539.363 ug/l
 RT: 13.01 min Scan# 3506
 Delta R.T. 0.00 min
 Lab File: VN064929.D
 Acq: 4 Dec 2020 19:19

Tgt Ion:105 Resp: 5335073
 Ion Ratio Lower Upper
 105 100
 120 51.5 23.1 69.2





#85

sec-Butylbenzene

Concen: 11.172 ug/l m

RT: 13.14 min Scan# 3547

Delta R.T. -0.00 min

Lab File: VN064929.D

Acq: 4 Dec 2020 19:19

Instrument :

MSVOA_N

ClientSampleId :

SS013-13-FD02-120120

Tot Ion:105 Resp: 121638

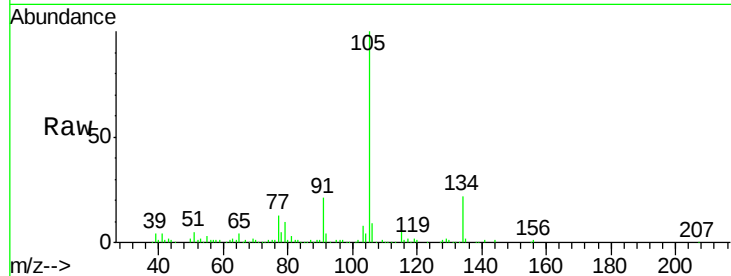
Ion Ratio Lower Upper

105 100

134 0.0 10.1 30.1#

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12/7/2020 10:45:58 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.14

80000

60000

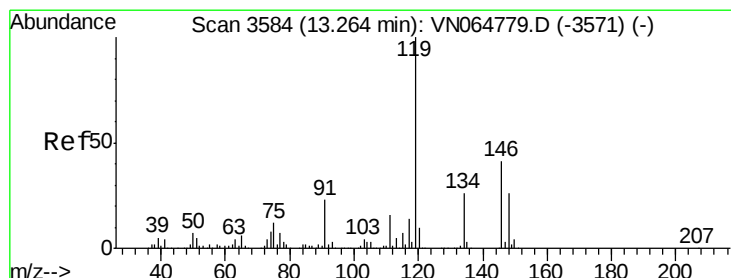
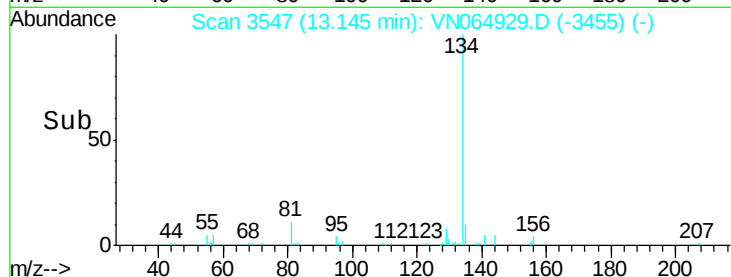
40000

20000

0

13.10 13.15 13.20

Time-->



#86

p-Isopropyltoluene

Concen: 13.798 ug/l

RT: 13.26 min Scan# 3584

Delta R.T. 0.00 min

Lab File: VN064929.D

Acq: 4 Dec 2020 19:19

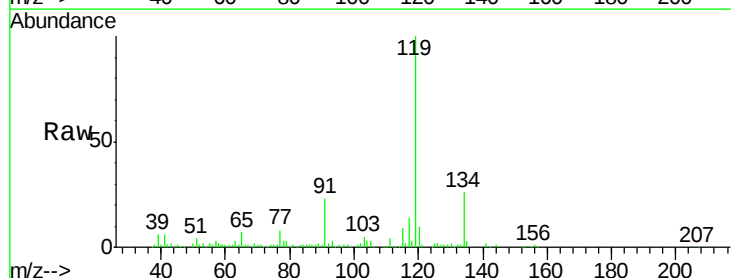
Tgt Ion:119 Resp: 136774

Ion Ratio Lower Upper

119 100

134 26.1 13.1 39.1

91 22.7 11.5 34.5



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

200000

150000

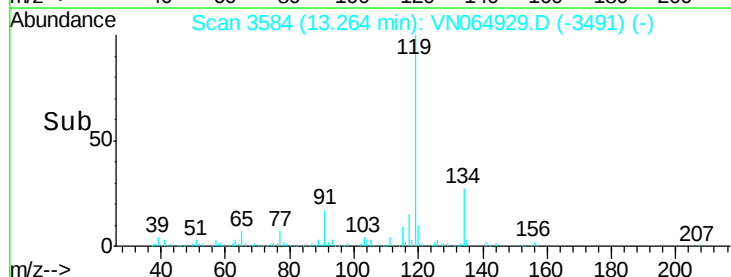
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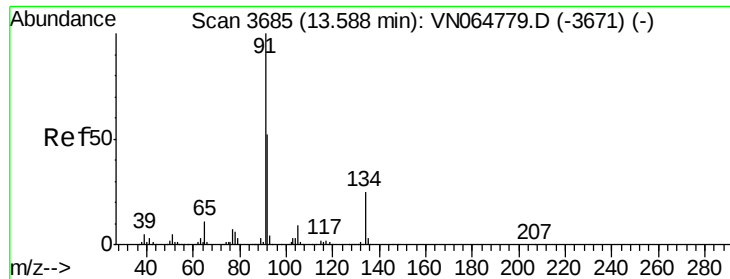
50000

0

13.20 13.25 13.30

Time-->





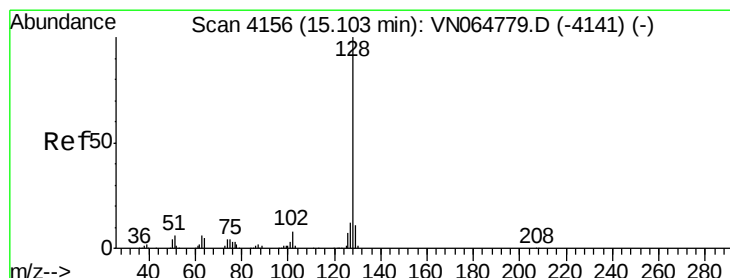
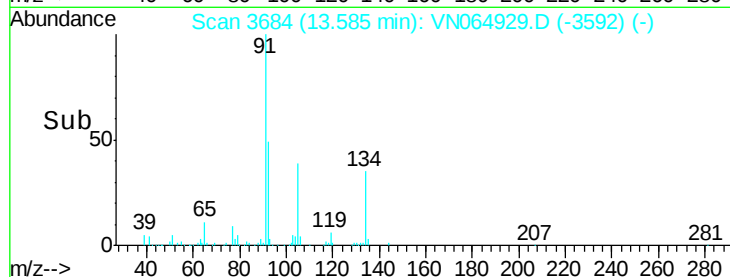
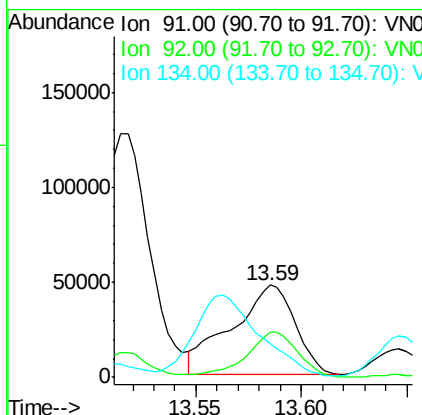
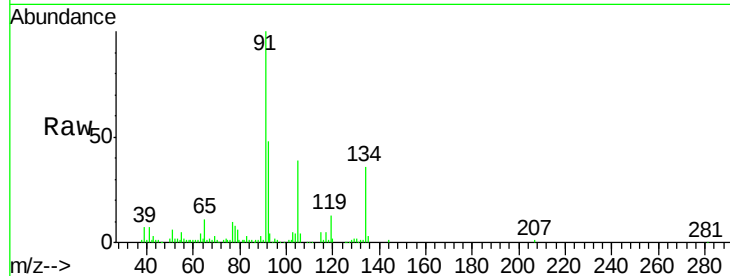
#89
n-Butylbenzene
Concen: 11.327 ug/l
RT: 13.59 min Scan# 3684
Delta R.T. -0.00 min
Lab File: VN064929.D
Acq: 4 Dec 2020 19:19

Instrument :
MSVOA_N
ClientSampleId :
SS013-13-FD02-120120

Tot Ion	Ratio	Lower	Upper
91	100		
92	39.9	26.0	78.0
134	0.0	12.9	38.6#

Manual Integrations
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#95
Naphthalene
Concen: 220.457 ug/l
RT: 15.10 min Scan# 4156
Delta R.T. 0.00 min
Lab File: VN064929.D
Acq: 4 Dec 2020 19:19

Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.3	15.5
129	10.9	8.7	13.1

