

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120420\
 Data File : VN064928.D
 Acq On : 4 Dec 2020 18:54
 Operator : JC/MD
 Sample : L4954-11
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SS013-13-6712-120120

Manual Integrations
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MMDadoda
 12/7/2020 10:45:53 AM

Quant Time: Dec 05 03:15:24 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	7.62	168	190577	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	322113	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	335779	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	171374	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	107816	48.66	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	97.32%
35) Dibromofluoromethane	7.55	113	99298	51.52	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	103.04%
50) Toluene-d8	10.06	98	424236	53.87	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	107.74%
62) 4-Bromofluorobenzene	12.37	95	166810	59.19	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	118.38%

Target Compounds

						Qvalue
31) Cyclohexane	7.61	56	643123	208.266	ug/l	96
39) Methylcyclohexane	9.05	83	574860	178.857	ug/l	97
40) Benzene	8.01	78	8556	0.935	ug/l #	90
52) Toluene	10.12	92	6251	1.109	ug/l	89
67) Ethyl Benzene	11.48	91	4002632	332.277	ug/l	95
68) m/p-Xylenes	11.59	106	271190	59.462	ug/l	99
69) o-Xylene	11.92	106	27775	6.418	ug/l	94
73) Isopropylbenzene	12.22	105	771882	64.754	ug/l	100
78) n-propylbenzene	12.56	91	1016115	74.827	ug/l	99
80) 1,3,5-Trimethylbenzene	12.71	105	379923	38.345	ug/l	99
83) tert-Butylbenzene	12.96	119	16255m	1.957	ug/l	
84) 1,2,4-Trimethylbenzene	13.01	105	5450221	544.057	ug/l	91
85) sec-Butylbenzene	13.14	105	124357m	11.278	ug/l	
86) p-Isopropyltoluene	13.26	119	140647	14.010	ug/l	100
89) n-Butylbenzene	13.59	91	101376	11.499	ug/l #	72
95) Naphthalene	15.10	128	2260220	217.539	ug/l	99

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

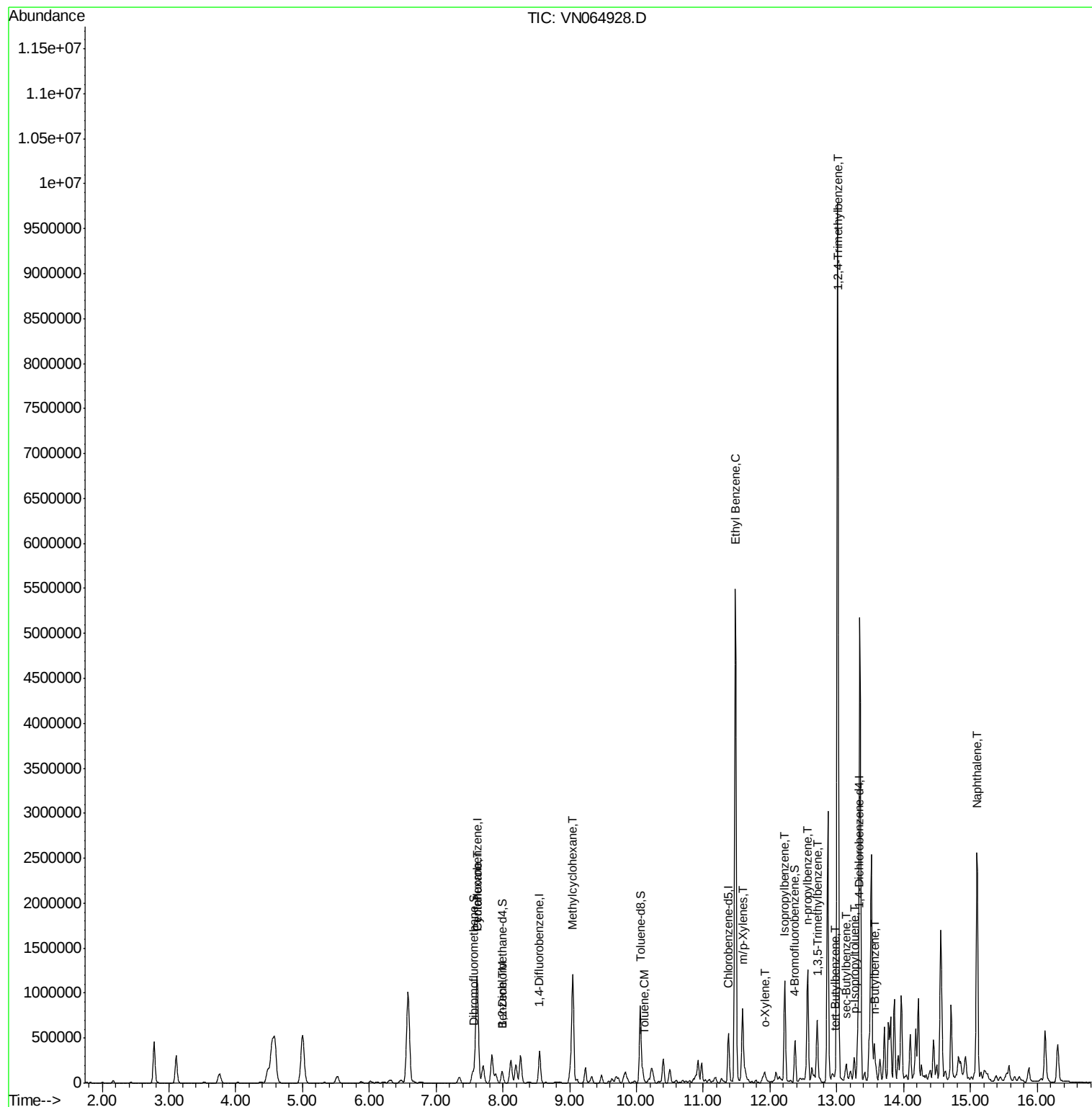
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120420\
Data File : VN064928.D
Acq On : 4 Dec 2020 18:54
Operator : JC/MD
Sample : L4954-11
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ALS Vial : 21 Sample Multiplier: 1

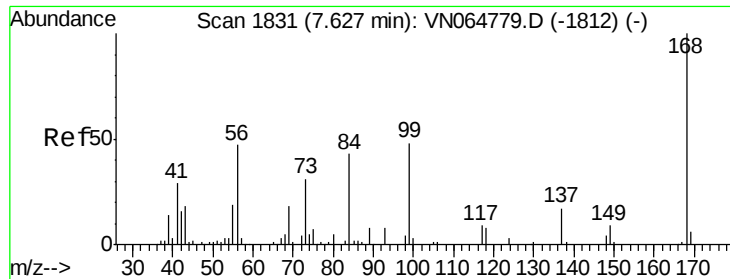
Instrument :
MSVOA_N
ClientSampleId :
SS013-13-6712-120120

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12/7/2020 10:45:53 AM

Quant Time: Dec 05 03:15:24 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: 7.62 min Scan# 1830

Delta R.T. -0.00 min

Lab File: VN064928.D

Acq: 4 Dec 2020 18:54

Instrument :

MSVOA_N

ClientSampleId :

SS013-13-6712-120120

Tot Ion:168 Resp: 190577

Ion Ratio Lower Upper

168 100

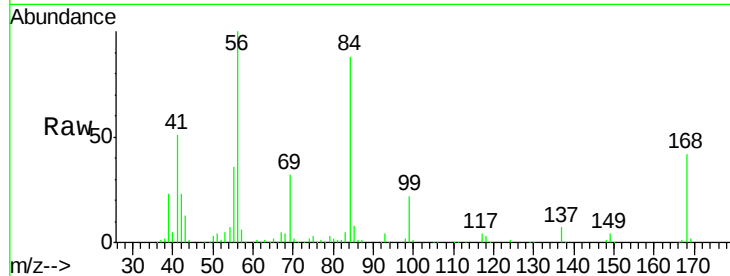
99 53.1 43.0 64.4

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.62

80000

60000

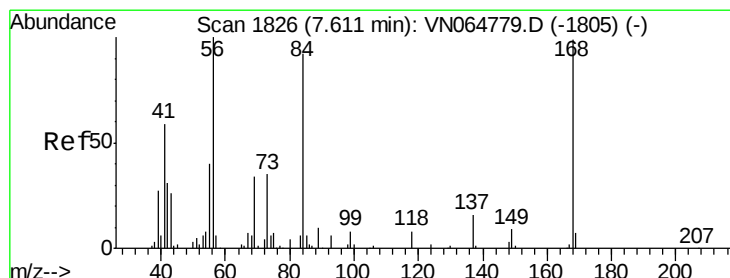
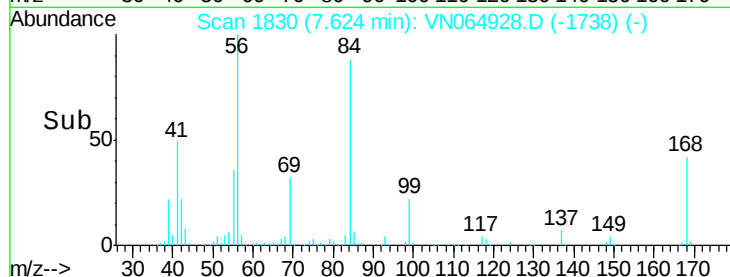
40000

20000

0

7.55 7.60 7.65 7.70

Time-->



#31

Cyclohexane

Concen: 208.266 ug/l

RT: 7.61 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN064928.D

Acq: 4 Dec 2020 18:54

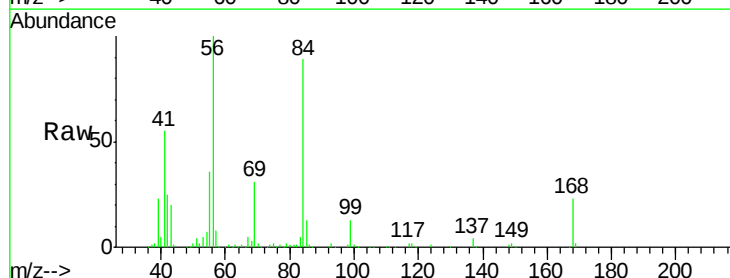
Tgt Ion: 56 Resp: 643123

Ion Ratio Lower Upper

56 100

69 31.0 27.5 41.3

84 89.0 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

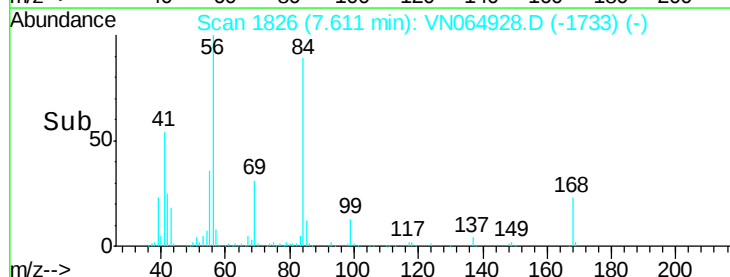
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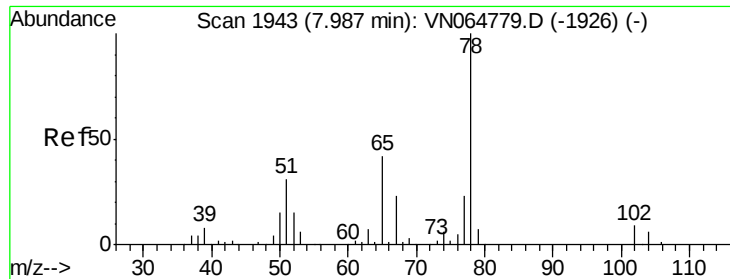
50000

0

7.50 7.55 7.60 7.65 7.70

Time-->





#33

1,2-Dichloroethane-d4

Concen: 48.663 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN064928.D

Acq: 4 Dec 2020 18:54

Instrument :

MSVOA_N

ClientSampleId :

SS013-13-6712-120120

Tot Ion: 65 Resp: 107816

Ion Ratio Lower Upper

65 100

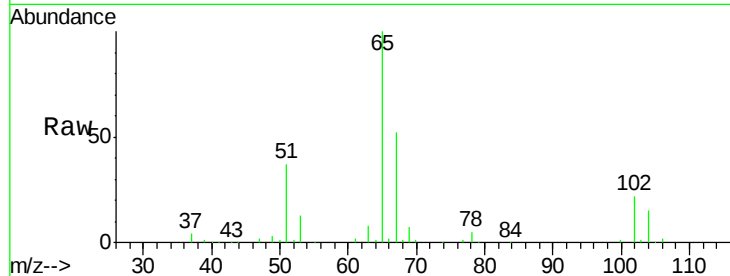
67 52.4 0.0 108.2

Manual Integrations

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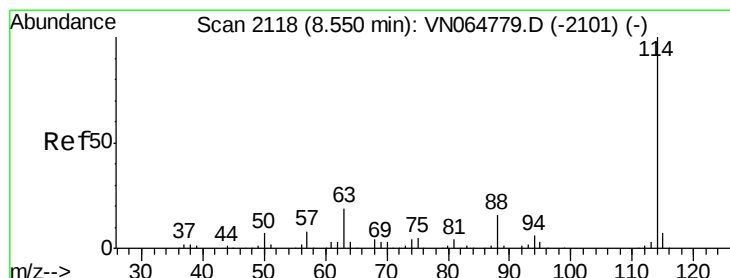
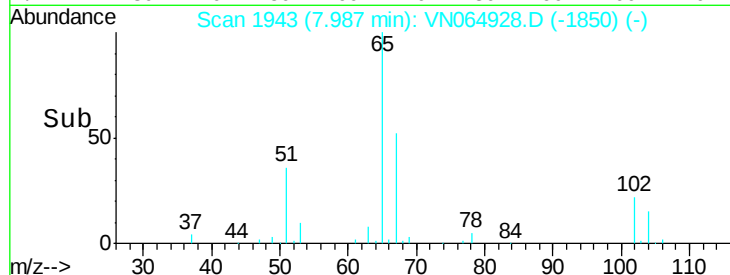


Abundance Ion 64.90 (64.60 to 65.60): VN064928.D (-1850) (-)

Ion 66.90 (66.60 to 67.60): VN064928.D (-1850) (-)

7.99

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN064928.D

Acq: 4 Dec 2020 18:54

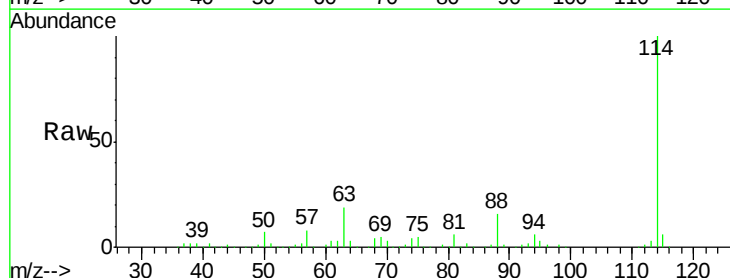
Tgt Ion: 114 Resp: 322113

Ion Ratio Lower Upper

114 100

63 18.8 0.0 38.6

88 15.8 0.0 32.6



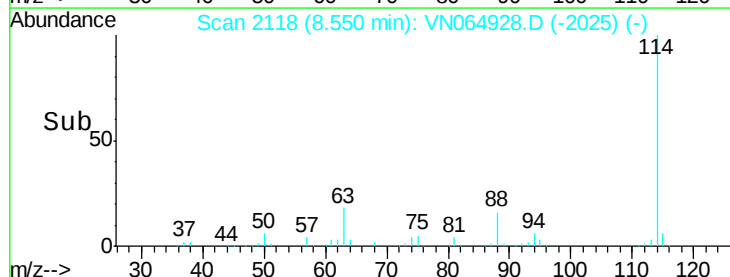
Abundance Ion 113.90 (113.60 to 114.60): VN064928.D (-2025) (-)

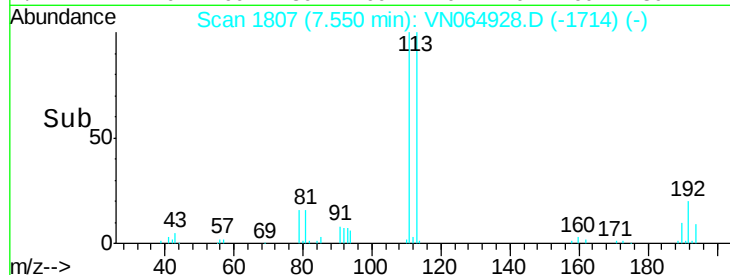
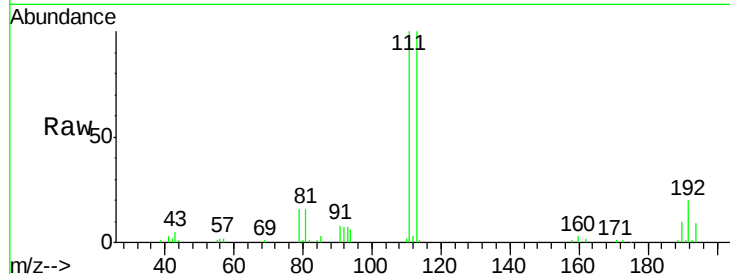
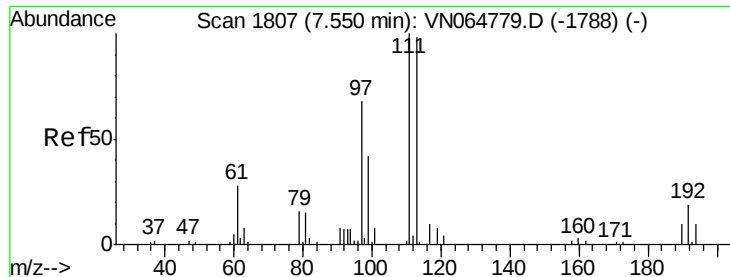
Ion 63.00 (62.70 to 63.70): VN064928.D (-2025) (-)

Ion 87.90 (87.60 to 88.60): VN064928.D (-2025) (-)

8.55

Time-->





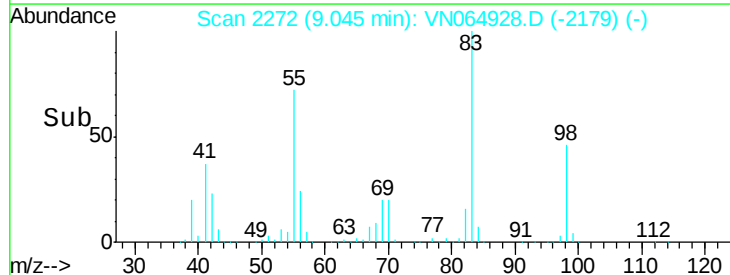
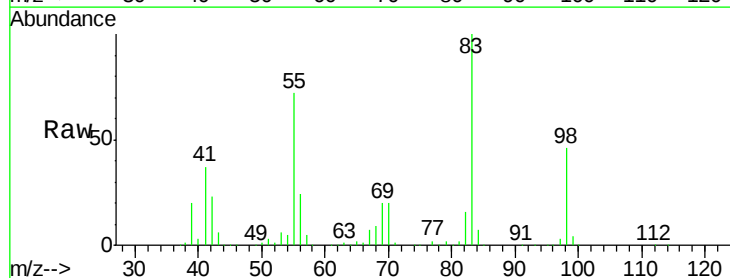
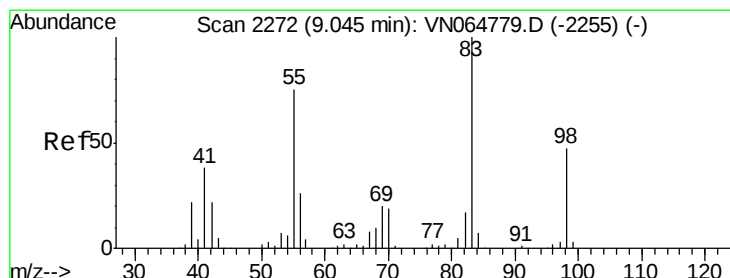
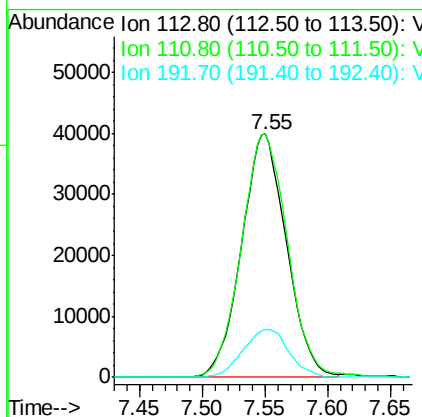
#35
Dibromofluoromethane
Concen: 51.519 ug/l
RT: 7.55 min Scan# 1807
Delta R.T. 0.00 min
Lab File: VN064928.D
Acq: 4 Dec 2020 18:54

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	103.1	81.6	122.4	
192	20.2	16.2	24.2	

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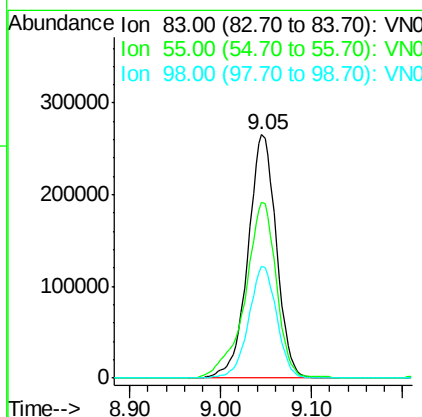
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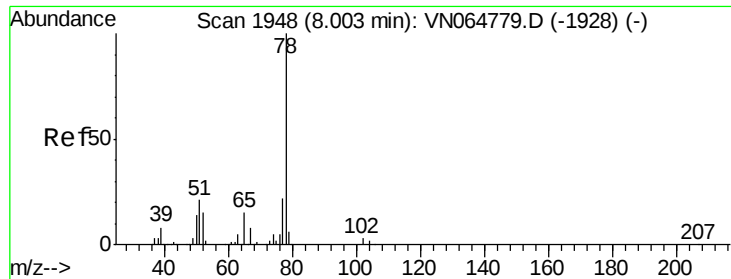
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#39
Methylcyclohexane
Concen: 178.857 ug/l
RT: 9.05 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VN064928.D
Acq: 4 Dec 2020 18:54

Tgt Ion	Ratio	Resp	Lower	Upper
83	100			
55	72.1	60.2	90.2	
98	45.7	37.4	56.2	





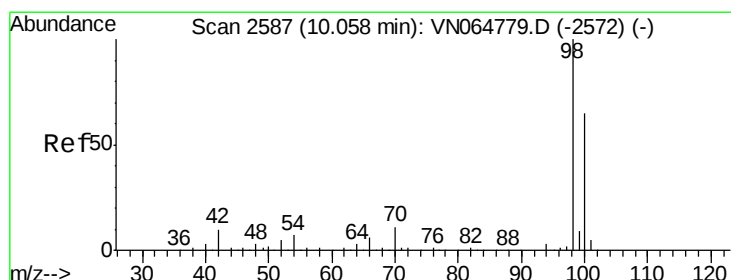
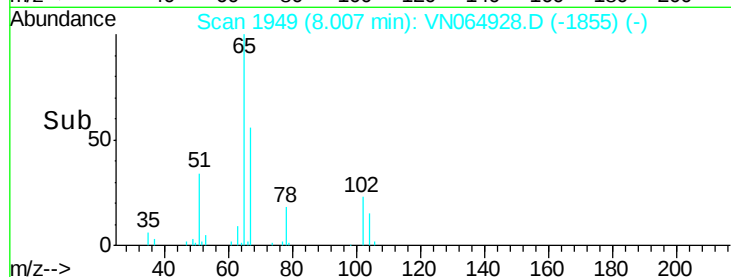
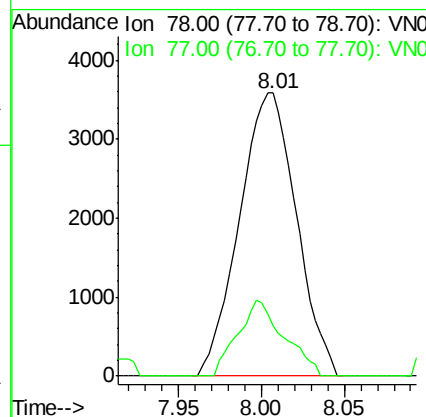
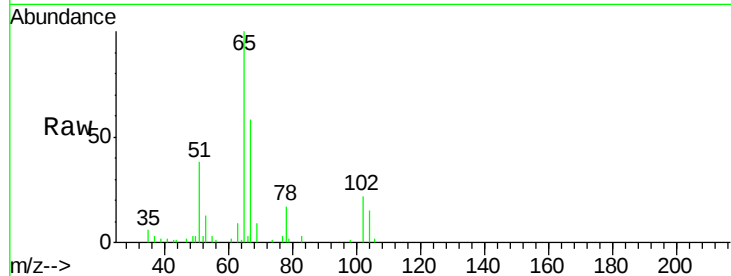
#40
Benzene
Concen: 0.935 ug/l
RT: 8.01 min Scan# 1949
Delta R.T. 0.00 min
Lab File: VN064928.D
Acq: 4 Dec 2020 18:54

Instrument :
MSVOA_N
ClientSampleId :
SS013-13-6712-120120

Tot Ion: 78 Resp: 8556
Ion Ratio Lower Upper
78 100
77 17.7 17.9 26.9#

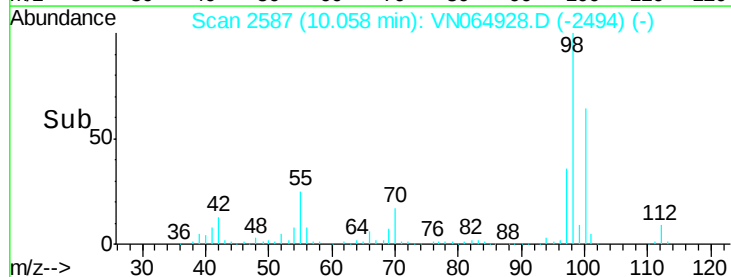
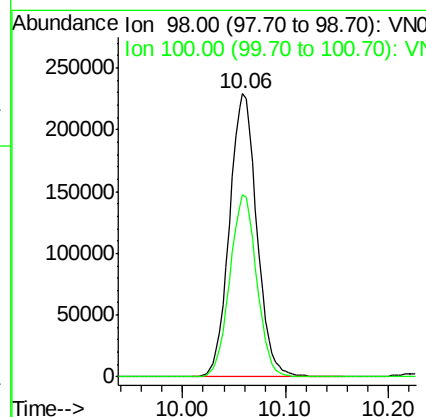
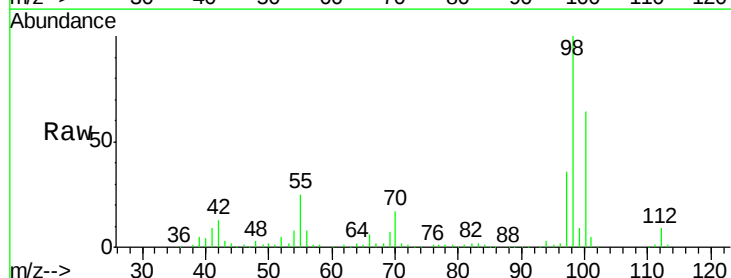
Manual Integrations
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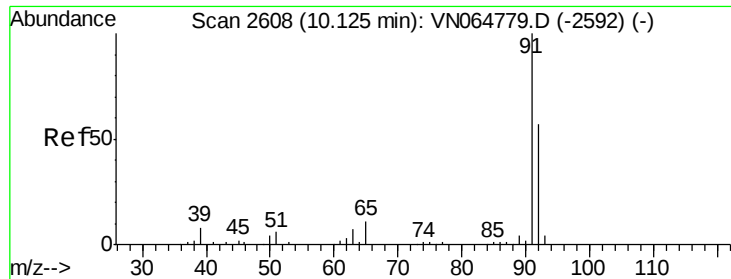
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#50
Toluene-d8
Concen: 53.869 ug/l
RT: 10.06 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN064928.D
Acq: 4 Dec 2020 18:54

Tgt Ion: 98 Resp: 424236
Ion Ratio Lower Upper
98 100
100 63.2 51.7 77.5





#52

Toluene

Concen: 1.109 ug/l

RT: 10.12 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN064928.D

Acq: 4 Dec 2020 18:54

Instrument :

MSVOA_N

ClientSampleId :

SS013-13-6712-120120

Tot Ion: 92 Resp: 6251

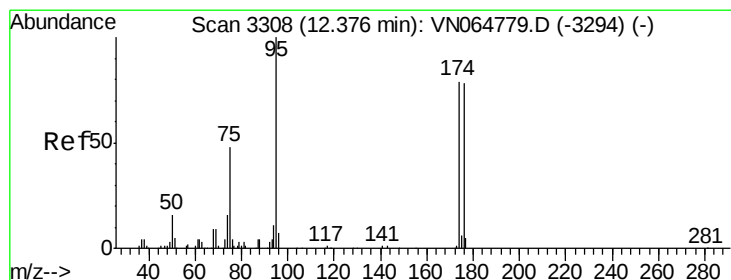
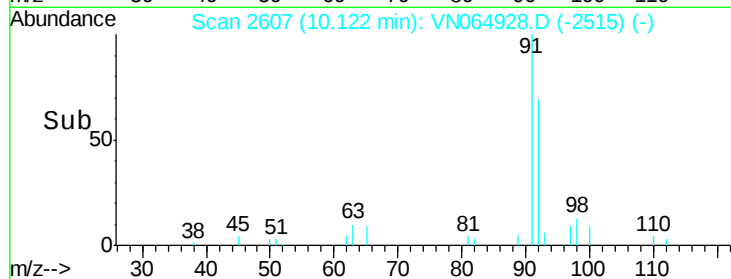
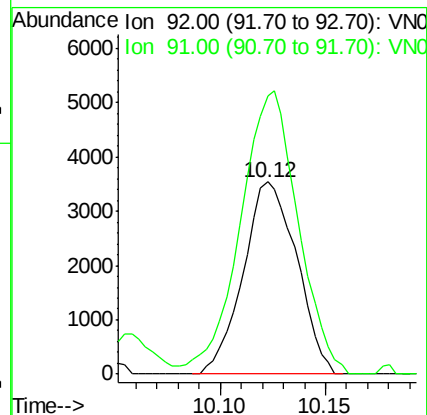
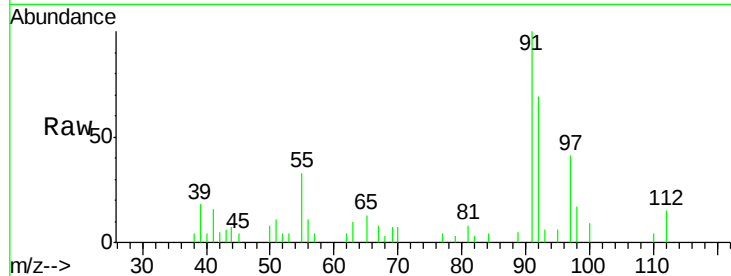
Ion Ratio Lower Upper

92 100

91 158.7 139.1 208.7

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12/7/2020 10:45:53 AM



#62

4-Bromofluorobenzene

Concen: 59.186 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. -0.00 min

Lab File: VN064928.D

Acq: 4 Dec 2020 18:54

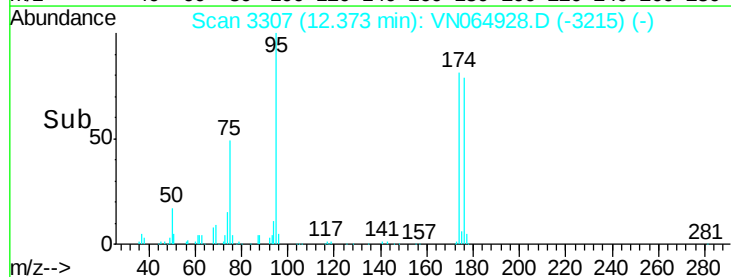
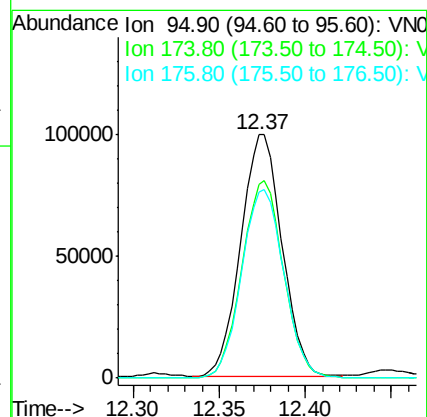
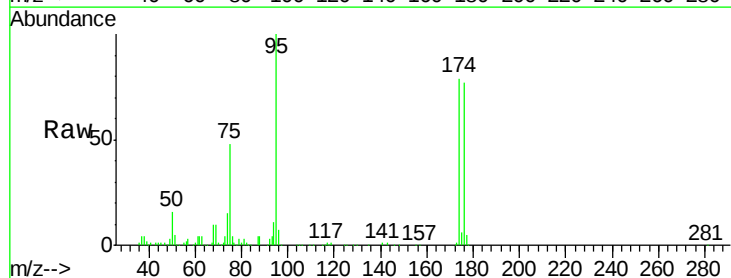
Tgt Ion: 95 Resp: 166810

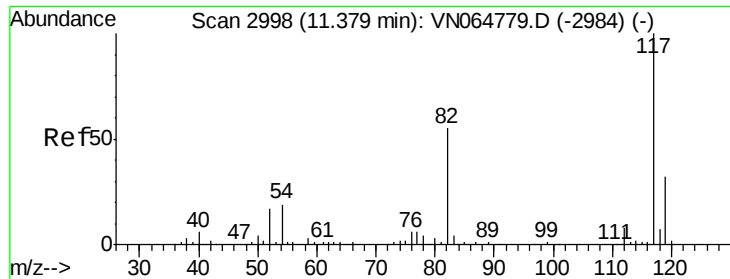
Ion Ratio Lower Upper

95 100

174 81.7 0.0 160.4

176 79.6 0.0 158.4





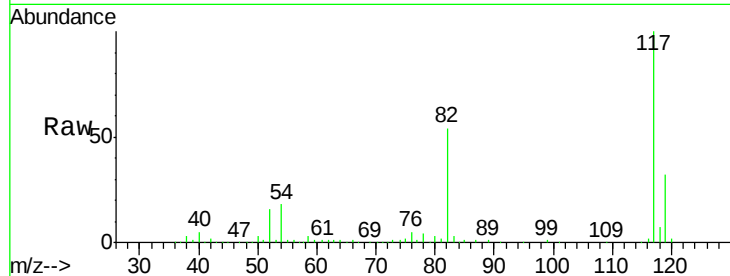
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN064928.D
Acq: 4 Dec 2020 18:54

Instrument :
MSVOA_N
ClientSampleId :
SS013-13-6712-120120

Tot Ion	Ratio	Lower	Upper
117	100		
82	54.0	44.2	66.2
119	31.8	25.8	38.6

Manual Integrations
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12/7/2020 10:45:53 AM

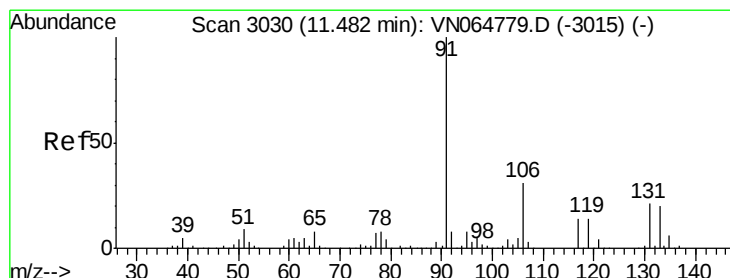
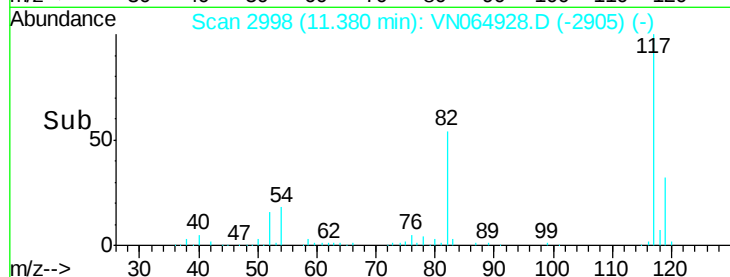
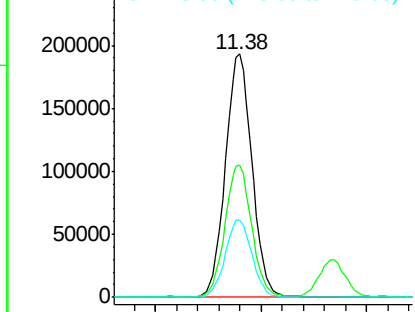


Abundance

Ion 116.90 (116.60 to 117.60): V

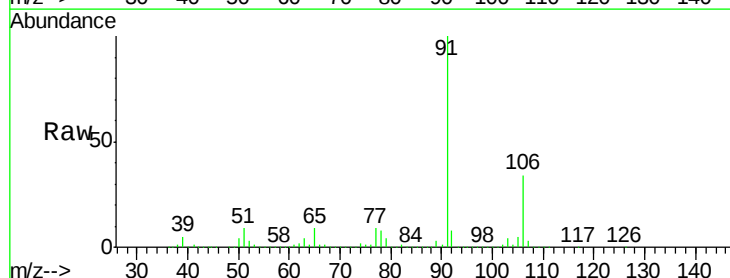
Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#67
Ethyl Benzene
Concen: 332.277 ug/l
RT: 11.48 min Scan# 3030
Delta R.T. 0.00 min
Lab File: VN064928.D
Acq: 4 Dec 2020 18:54

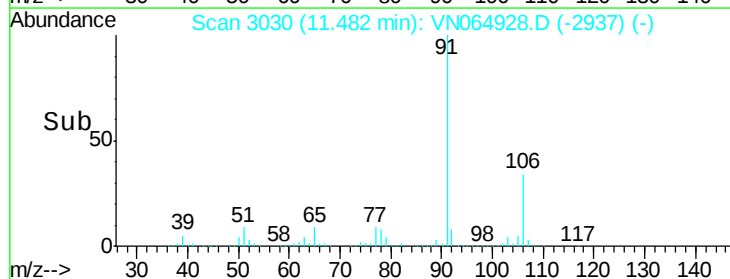
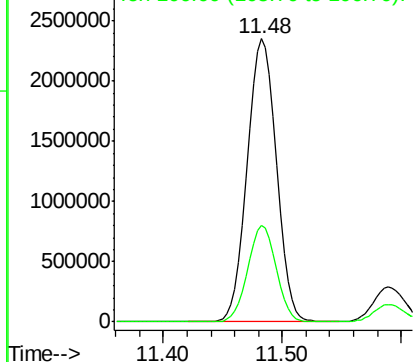
Tgt Ion	Ratio	Lower	Upper
91	100		
106	34.3	25.2	37.8

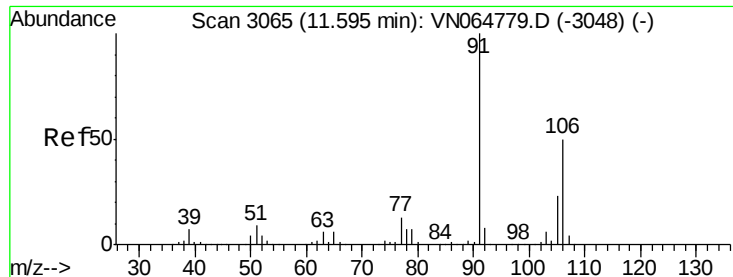


Abundance

Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V





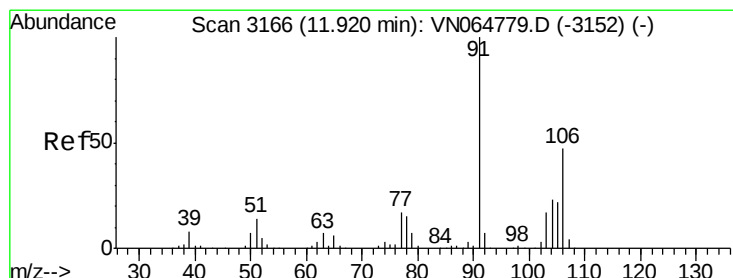
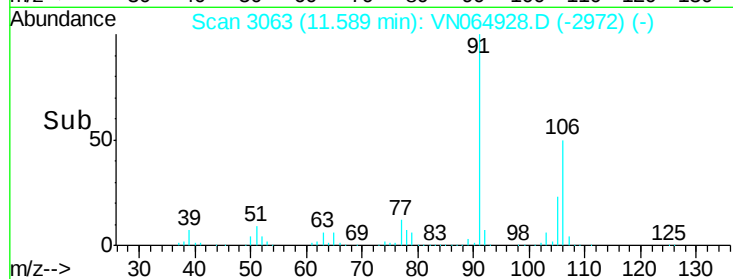
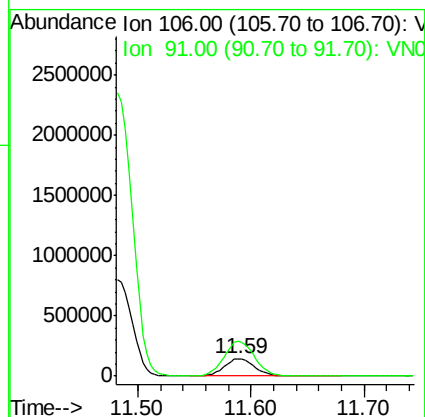
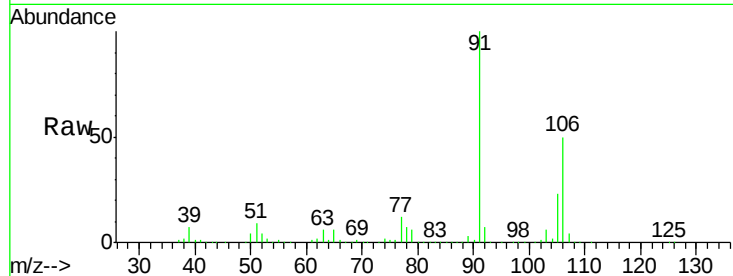
#68
m/p-Xvlenes
Concen: 59.462 ug/l
RT: 11.59 min Scan# 3063
Delta R.T. -0.01 min
Lab File: VN064928.D
Acq: 4 Dec 2020 18:54

Instrument :
MSVOA_N
ClientSampleId :
SS013-13-6712-120120

Tot Ion:106 Resp: 271190
Ion Ratio Lower Upper
106 100
91 199.5 161.0 241.4

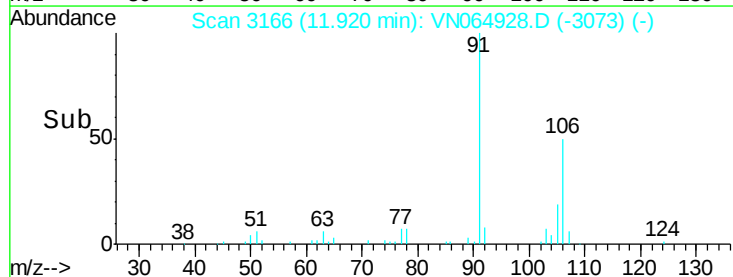
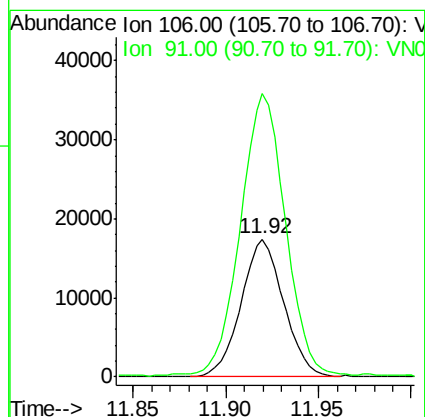
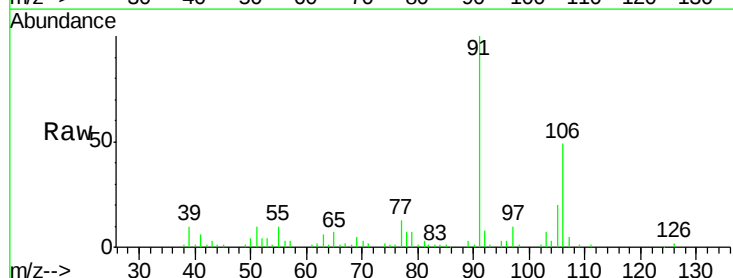
Manual Integrations
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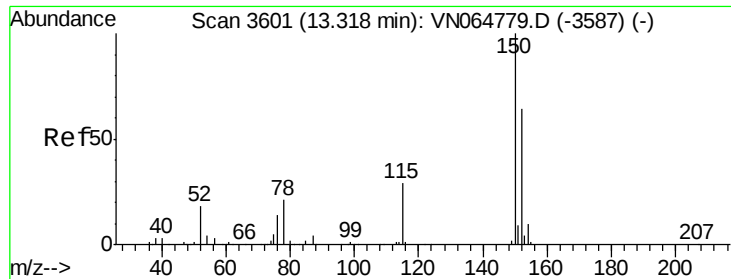
MMDadoda
12/7/2020 10:45:53 AM



#69
o-Xylene
Concen: 6.418 ug/l
RT: 11.92 min Scan# 3166
Delta R.T. 0.00 min
Lab File: VN064928.D
Acq: 4 Dec 2020 18:54

Tgt Ion:106 Resp: 27775
Ion Ratio Lower Upper
106 100
91 220.3 105.5 316.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN064928.D

Acq: 4 Dec 2020 18:54

Instrument :

MSVOA_N

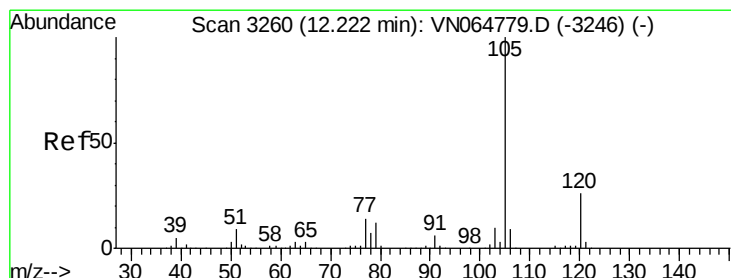
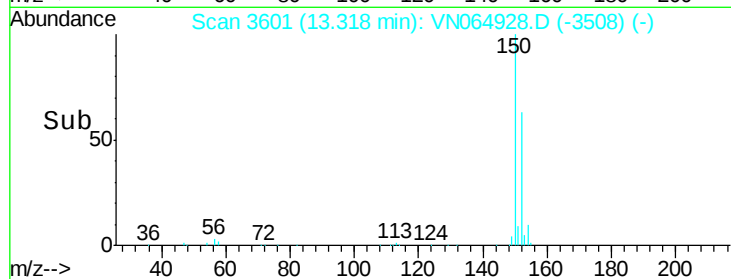
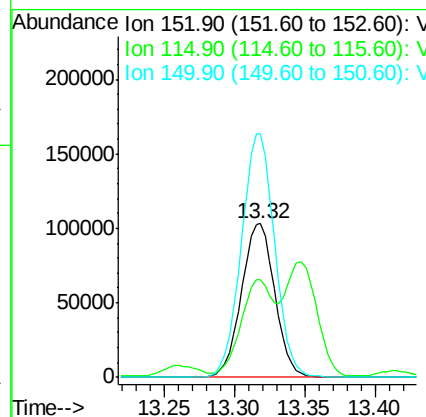
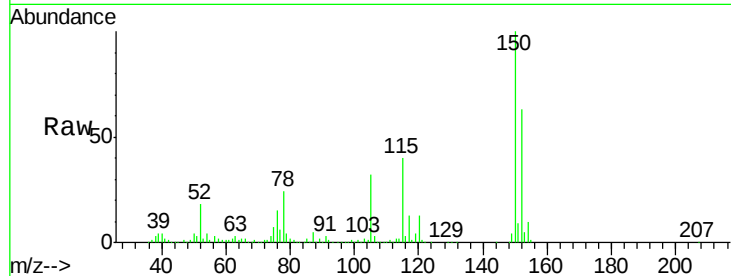
ClientSampleId :

SS013-13-6712-120120

Tot Ion	Ratio	Lower	Upper
152	100		
115	63.8	29.7	89.1
150	157.9	0.0	350.6

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#73

Isopropylbenzene

Concen: 64.754 ug/l

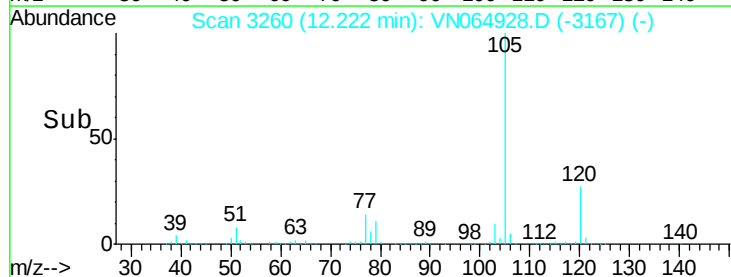
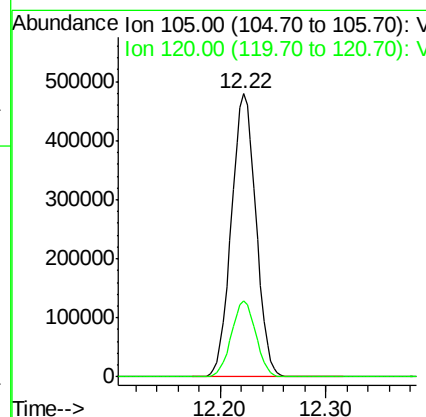
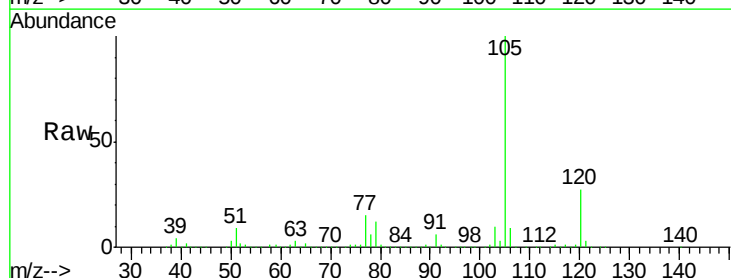
RT: 12.22 min Scan# 3260

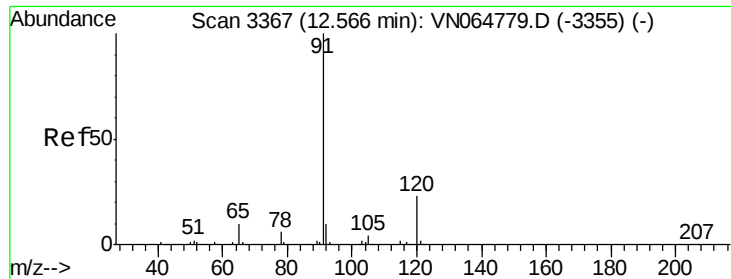
Delta R.T. 0.00 min

Lab File: VN064928.D

Acq: 4 Dec 2020 18:54

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.7	13.3	39.9





#78

n-propylbenzene

Concen: 74.827 ug/l

RT: 12.56 min Scan# 3366

Delta R.T. -0.00 min

Lab File: VN064928.D

Acq: 4 Dec 2020 18:54

Instrument :

MSVOA_N

ClientSampleId :

SS013-13-6712-120120

Tot Ion: 91 Resp: 1016115

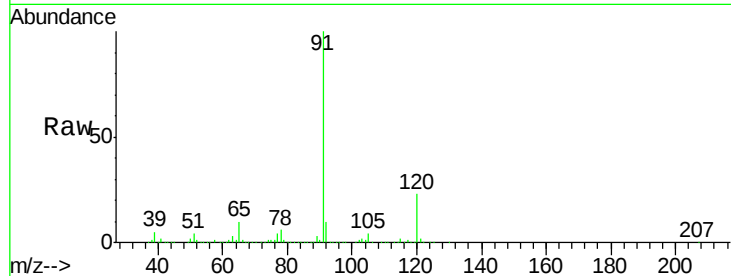
Ion Ratio Lower Upper

91 100

120 23.5 11.6 34.7

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Abundance Ion 91.00 (90.70 to 91.70): VN064779.D (-3355) (-)

Ion 120.00 (119.70 to 120.70): VN064779.D (-3355) (-)

12.56

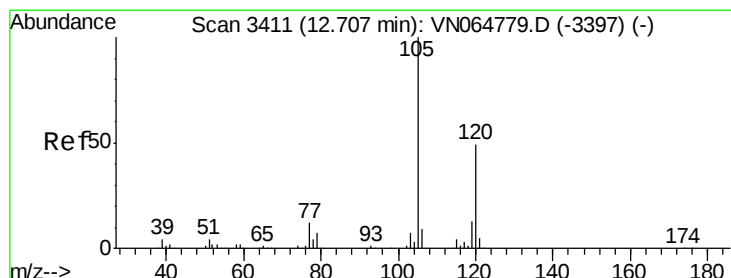
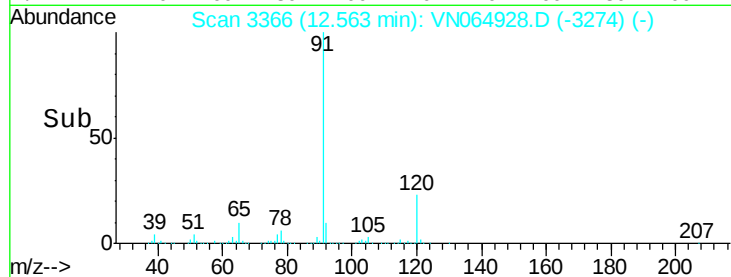
600000

400000

200000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 38.345 ug/l

RT: 12.71 min Scan# 3411

Delta R.T. 0.00 min

Lab File: VN064928.D

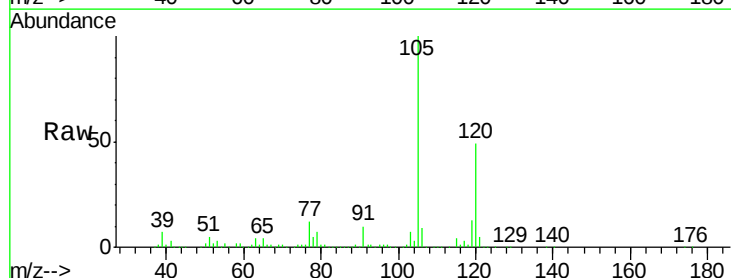
Acq: 4 Dec 2020 18:54

Tgt Ion: 105 Resp: 379923

Ion Ratio Lower Upper

105 100

120 49.6 24.6 73.6



Abundance Ion 105.00 (104.70 to 105.70): VN064779.D (-3397) (-)

Ion 120.00 (119.70 to 120.70): VN064779.D (-3397) (-)

12.71

250000

200000

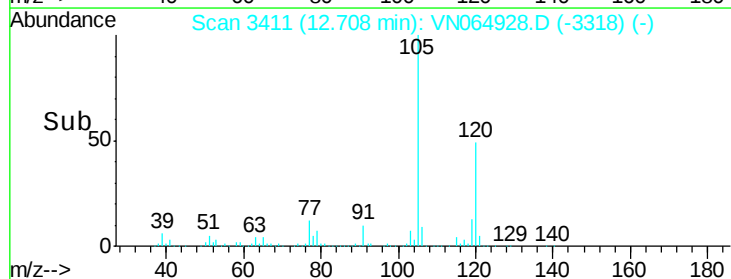
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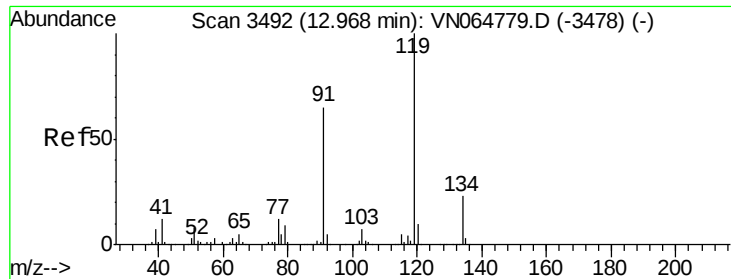
100000

50000

0

Time-->





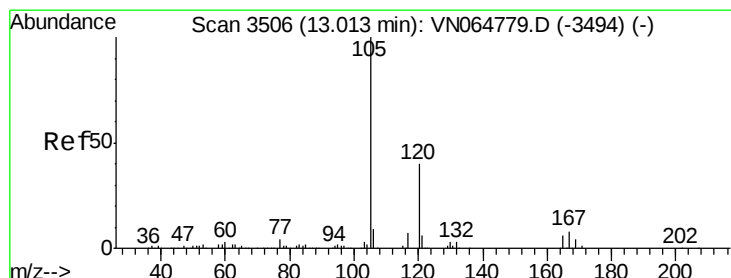
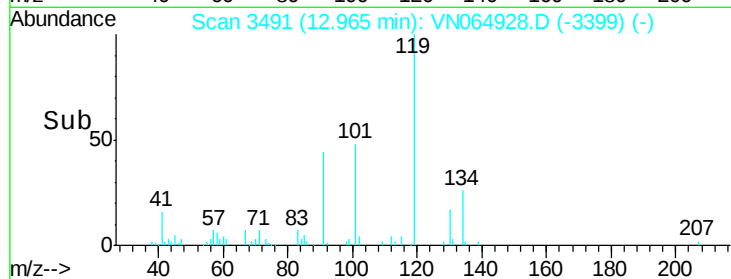
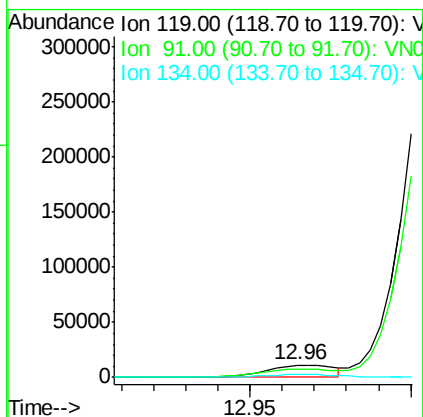
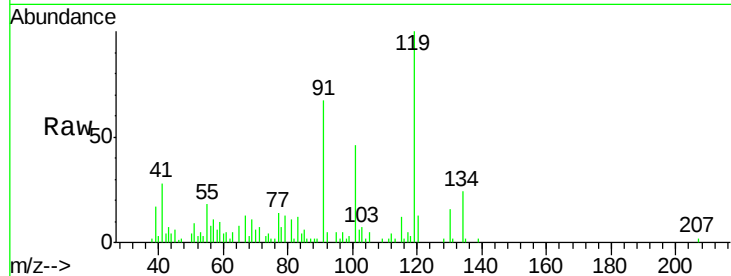
#83
 tert-Butylbenzene
 Concen: 1.957 ug/l m
 RT: 12.96 min Scan# 3491
 Delta R.T. -0.00 min
 Lab File: VN064928.D
 Acq: 4 Dec 2020 18:54

Instrument :
 MSVOA_N
 ClientSampleId :
 SS013-13-6712-120120

Tot Ion:119 Resp: 16255
 Ion Ratio Lower Upper
 119 100
 91 3782.1 32.3 96.8
 134 0.0 12.6 37.6#

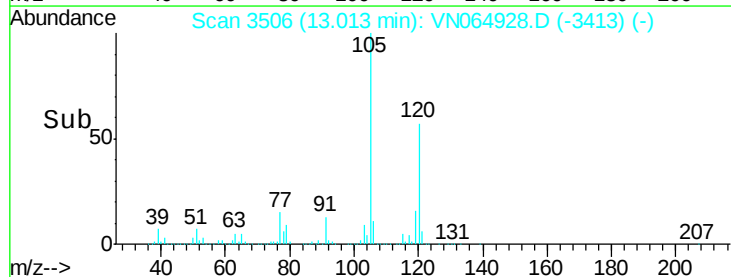
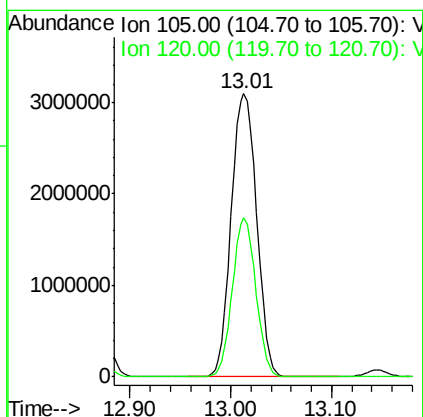
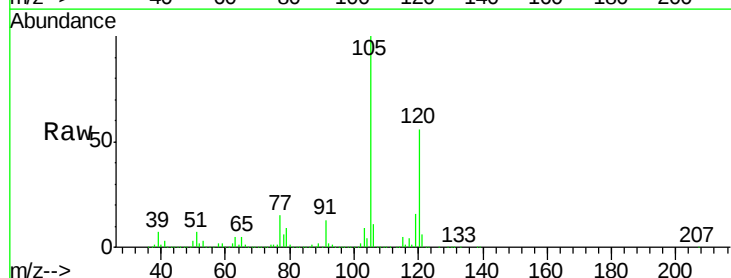
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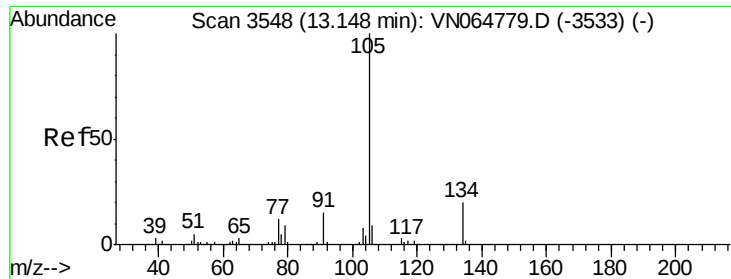
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#84
 1,2,4-Trimethylbenzene
 Concen: 544.057 ug/l
 RT: 13.01 min Scan# 3506
 Delta R.T. 0.00 min
 Lab File: VN064928.D
 Acq: 4 Dec 2020 18:54

Tgt Ion:105 Resp: 5450221
 Ion Ratio Lower Upper
 105 100
 120 51.8 23.1 69.2





#85

sec-Butylbenzene

Concen: 11.278 ug/l m

RT: 13.14 min Scan# 3547

Delta R.T. -0.00 min

Lab File: VN064928.D

Acq: 4 Dec 2020 18:54

Instrument :

MSVOA_N

ClientSampleId :

SS013-13-6712-120120

Tot Ion:105 Resp: 124357

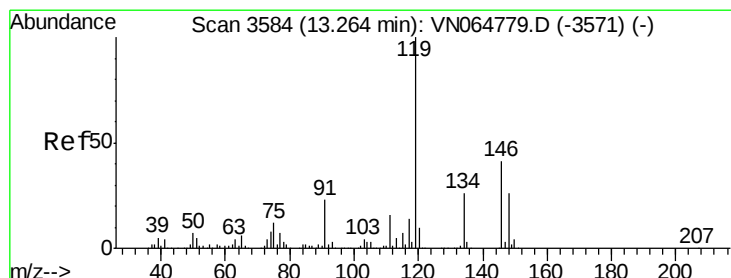
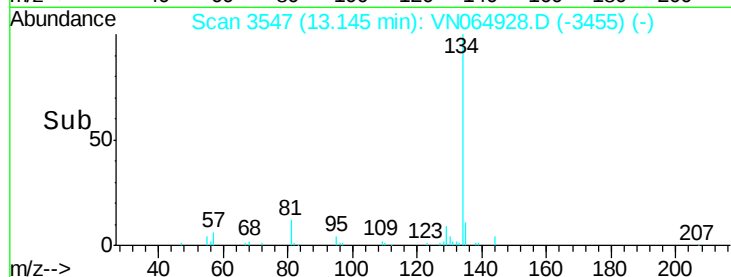
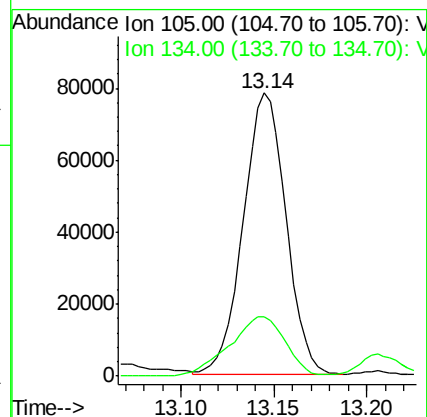
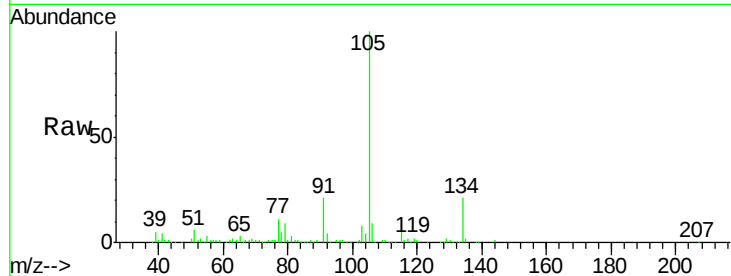
Ion Ratio Lower Upper

105 100

134 0.0 10.1 30.1#

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#86

p-Isopropyltoluene

Concen: 14.010 ug/l

RT: 13.26 min Scan# 3584

Delta R.T. 0.00 min

Lab File: VN064928.D

Acq: 4 Dec 2020 18:54

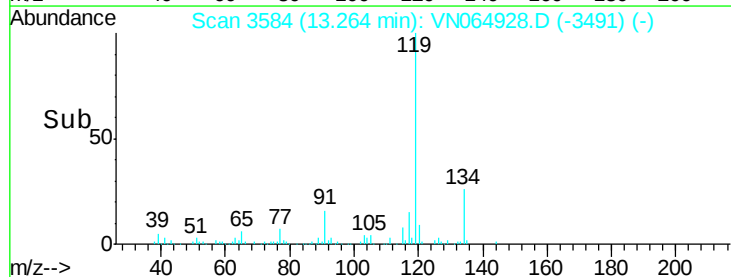
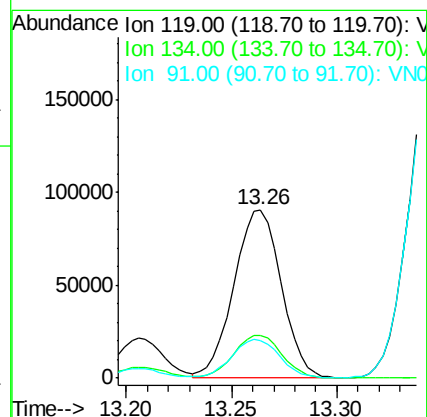
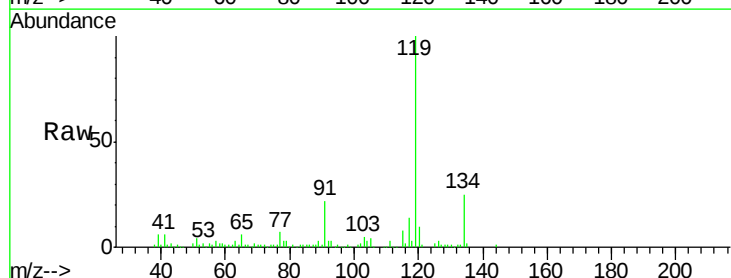
Tgt Ion:119 Resp: 140647

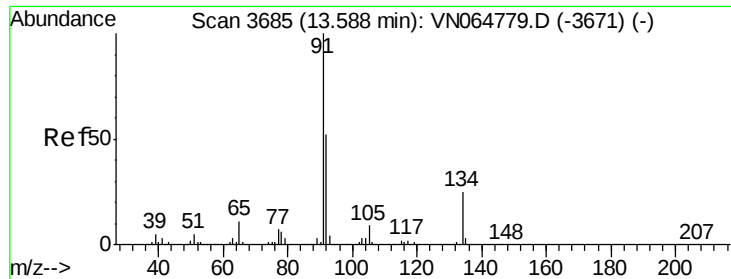
Ion Ratio Lower Upper

119 100

134 26.1 13.1 39.1

91 22.6 11.5 34.5





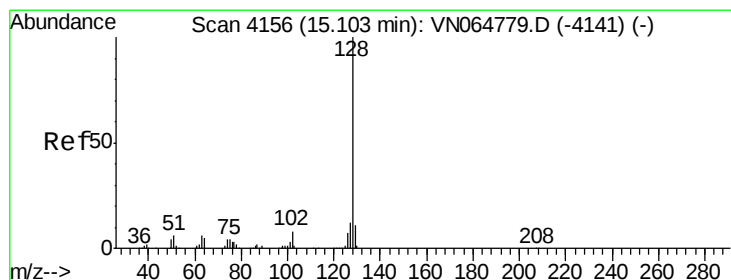
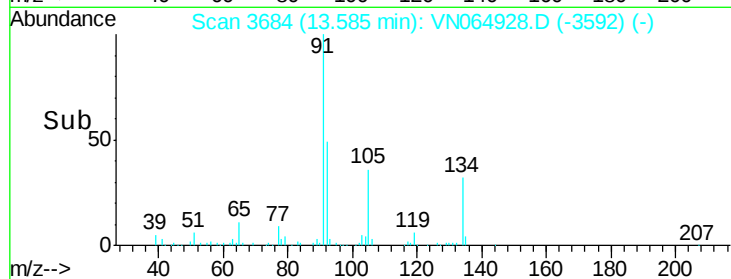
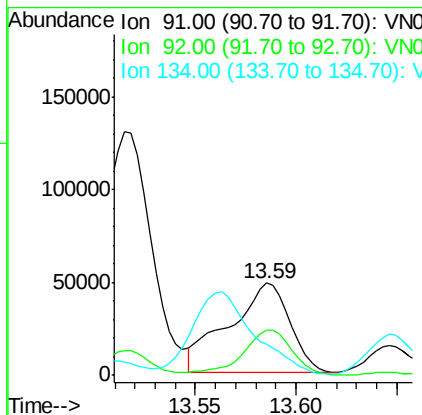
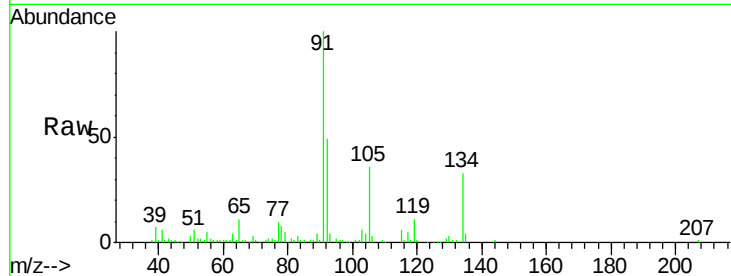
#89
n-Butylbenzene
Concen: 11.499 ug/l
RT: 13.59 min Scan# 3684
Delta R.T. -0.00 min
Lab File: VN064928.D
Acq: 4 Dec 2020 18:54

Instrument :
MSVOA_N
ClientSampleId :
SS013-13-6712-120120

Tot Ion	Ratio	Lower	Upper
91	100		
92	40.2	26.0	78.0
134	0.0	12.9	38.6

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#95
Naphthalene
Concen: 217.539 ug/l
RT: 15.10 min Scan# 4155
Delta R.T. -0.00 min
Lab File: VN064928.D
Acq: 4 Dec 2020 18:54

Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.3	15.5
129	10.7	8.7	13.1

