

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062220\
 Data File : VN062024.D
 Acq On : 23 Jun 2020 2:21
 Operator : JC/MD
 Sample : L3071-07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TW-7

Manual Integrations
 APPROVED

MMDadoda
 6/23/2020 12:45:00 PM

Quant Time: Jun 23 12:11:41 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 17 01:19:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	165400	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	308469	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	306312	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	189359	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	106730	48.11	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.22%	
35) Dibromofluoromethane	7.55	113	91078	46.15	ug/l	0.00
Spiked Amount 50.000			Recovery	=	92.30%	
50) Toluene-d8	10.06	98	408936	52.71	ug/l	0.00
Spiked Amount 50.000			Recovery	=	105.42%	
62) 4-Bromofluorobenzene	12.38	95	159271	59.85	ug/l	0.00
Spiked Amount 50.000			Recovery	=	119.70%	
Target Compounds						
					Qvalue	
17) Carbon Disulfide	4.01	76	13207	2.686	ug/l	97
25) 2-Butanone	6.79	43	28161	29.458	ug/l	89
31) Cyclohexane	7.61	56	315079	107.784	ug/l	90
39) Methylcyclohexane	9.05	83	340927	112.531	ug/l	94
40) Benzene	8.00	78	109080	12.798	ug/l	99
52) Toluene	10.12	92	104083	19.445	ug/l	98
67) Ethyl Benzene	11.48	91	6232748	575.143	ug/l #	57
68) m/p-Xylenes	11.60	106	6176157	1478.011	ug/l #	61
69) o-Xylene	11.92	106	219368	55.019	ug/l	97
73) Isopropylbenzene	12.23	105	6876053	510.999	ug/l #	68
78) n-propylbenzene	12.57	91	7647876	498.104	ug/l #	60
80) 1,3,5-Trimethylbenzene	12.71	105	7854929m	705.584	ug/l	
83) tert-Butylbenzene	12.98	119	6018m	0.638	ug/l	
84) 1,2,4-Trimethylbenzene	13.03	105	11980333m	1090.185	ug/l	
85) sec-Butylbenzene	13.15	105	435765	35.276	ug/l #	65
86) p-Isopropyltoluene	13.27	119	120735m	10.968	ug/l	
89) n-Butylbenzene	13.59	91	386466	42.040	ug/l #	56
95) Naphthalene	15.10	128	5252520	522.275	ug/l #	93

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

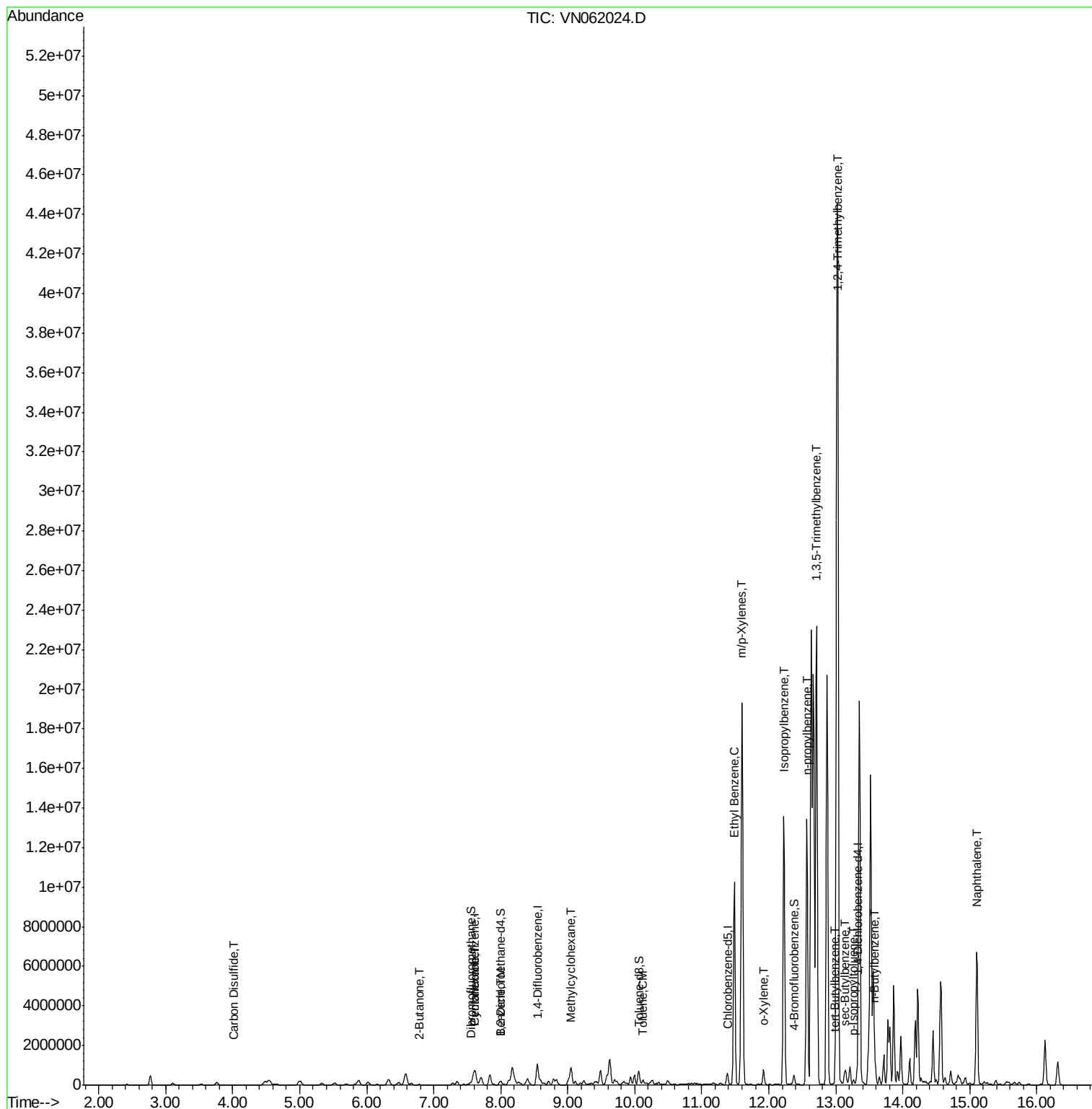
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN062220\
Data File : VN062024.D
Acq On : 23 Jun 2020 2:21
Operator : JC/MD
Sample : L3071-07
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 39 Sample Multiplier: 1

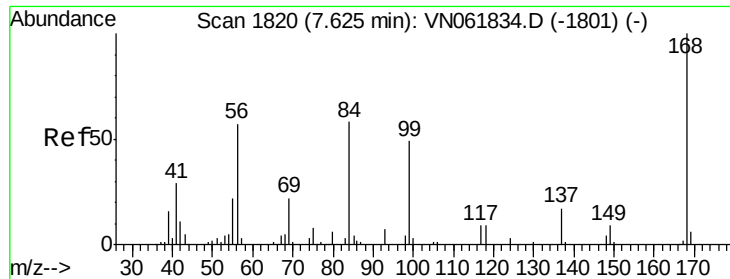
Instrument :
MSVOA_N
ClientSampleId :
TW-7

Manual Integrations
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6/23/2020 12:45:00 PM

Quant Time: Jun 23 12:11:41 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N061620W.M
Quant Title : SW846 8260
QLast Update : Wed Jun 17 01:19:44 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN062024.D

Acq: 23 Jun 2020 2:21

Instrument :

MSVOA_N

ClientSampled :

TW-7

Tot Ion:168 Resp: 165400

Ion Ratio Lower Upper

168 100

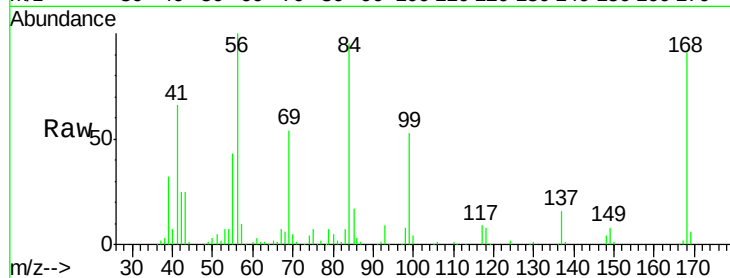
99 58.4 44.6 67.0

Manual Integrations

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6/23/2020 12:45:00 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

80000

60000

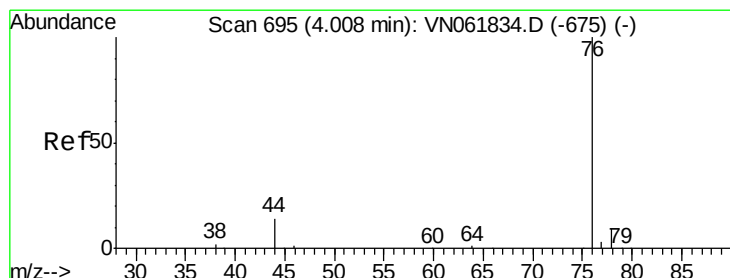
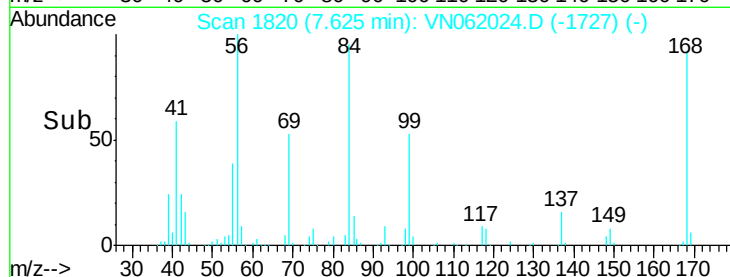
40000

20000

0

7.55 7.60 7.65 7.70

Time-->



#17

Carbon Disulfide

Concen: 2.686 ug/l

RT: 4.01 min Scan# 696

Delta R.T. 0.00 min

Lab File: VN062024.D

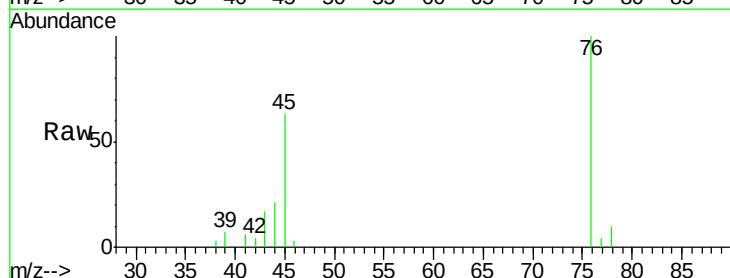
Acq: 23 Jun 2020 2:21

Tgt Ion: 76 Resp: 13207

Ion Ratio Lower Upper

76 100

78 10.2 7.3 10.9



Abundance Ion 75.90 (75.60 to 76.60): VNO

Ion 77.90 (77.60 to 78.60): VNO

4.01

5000

4000

3000

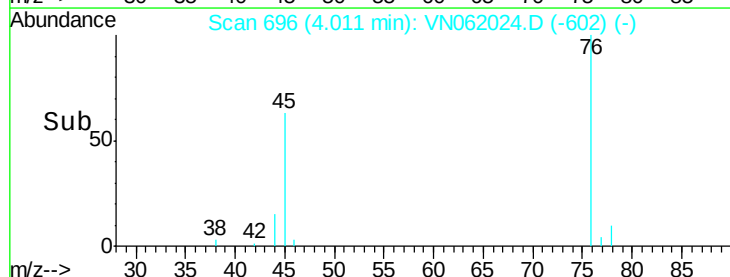
2000

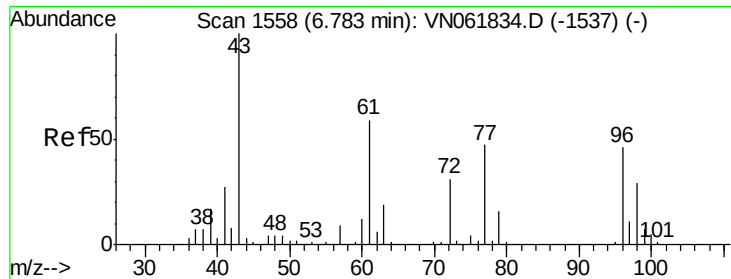
1000

0

3.95 4.00 4.05

Time-->





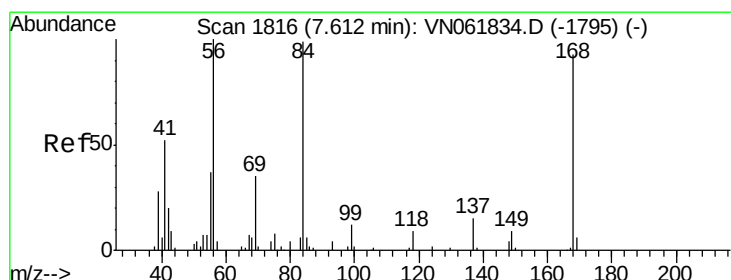
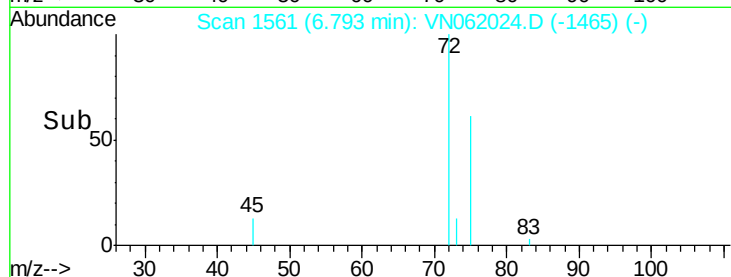
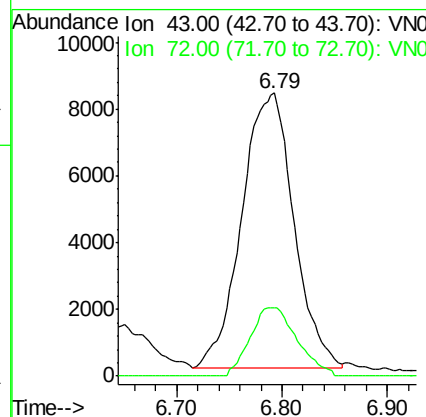
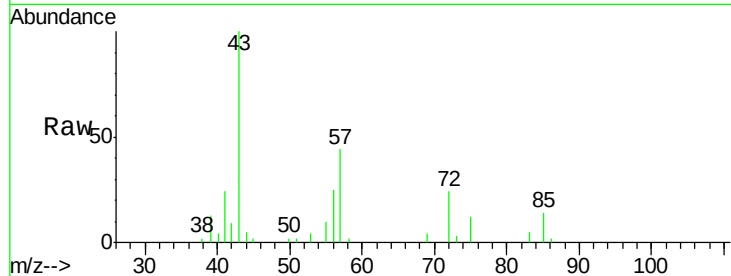
#25
2-Butanone
Concen: 29.458 ug/l
RT: 6.79 min Scan# 1561
Delta R.T. 0.01 min
Lab File: VN062024.D
Acq: 23 Jun 2020 2:21

Instrument :
MSVOA_N
ClientSampled :
TW-7

Tot Ion: 43 Resp: 28161
Ion Ratio Lower Upper
43 100
72 24.9 24.6 37.0

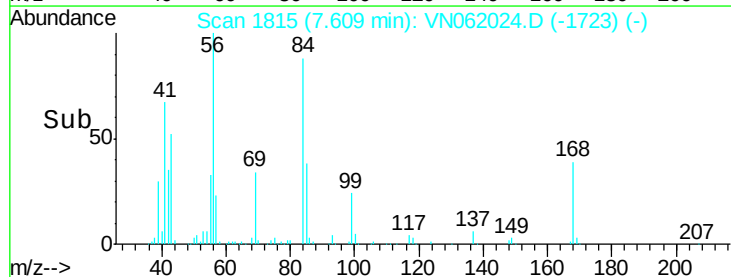
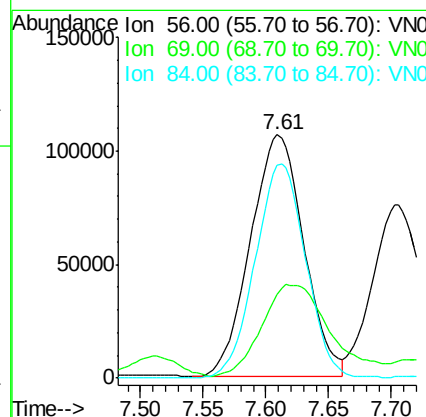
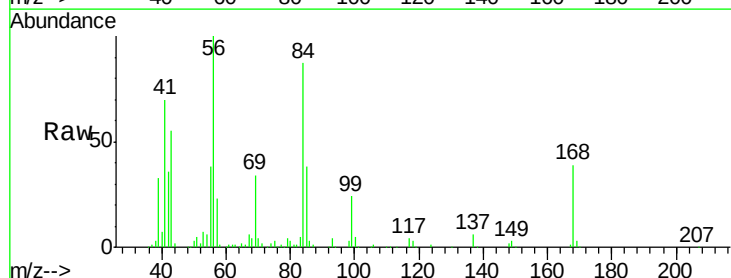
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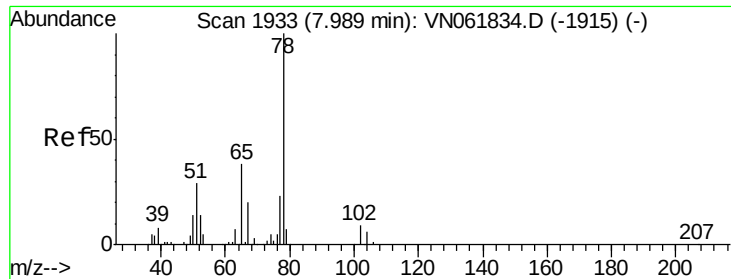
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#31
Cyclohexane
Concen: 107.784 ug/l
RT: 7.61 min Scan# 1815
Delta R.T. -0.00 min
Lab File: VN062024.D
Acq: 23 Jun 2020 2:21

Tgt Ion: 56 Resp: 315079
Ion Ratio Lower Upper
56 100
69 32.1 27.7 41.5
84 87.7 79.1 118.7





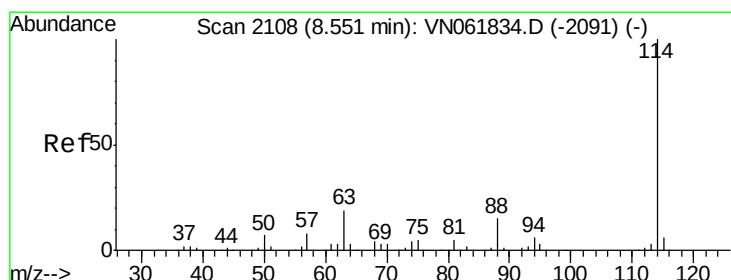
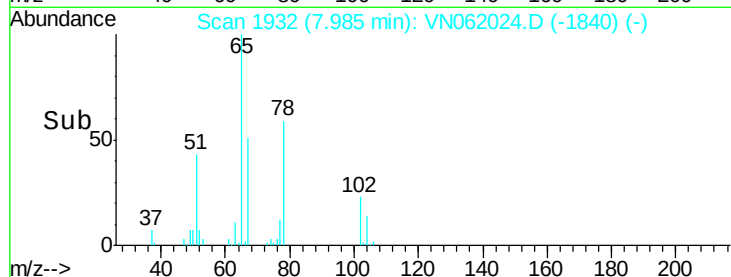
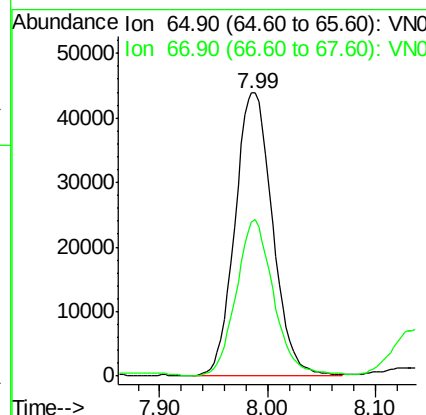
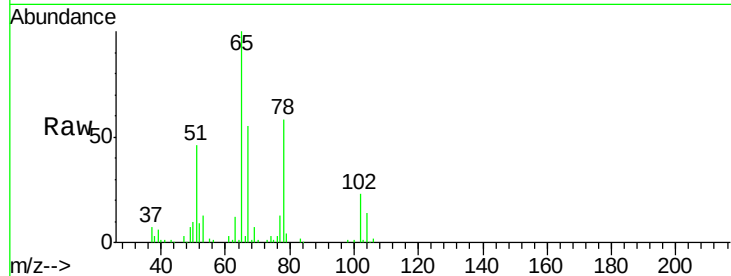
#33
 1,2-Dichloroethane-d4
 Concen: 48.114 ug/l
 RT: 7.99 min Scan# 1932
 Delta R.T. -0.00 min
 Lab File: VN062024.D
 Acq: 23 Jun 2020 2:21

Instrument :
 MSVOA_N
 ClientSampled :
 TW-7

Tot Ion: 65 Resp: 106730
 Ion Ratio Lower Upper
 65 100
 67 55.2 0.0 106.2

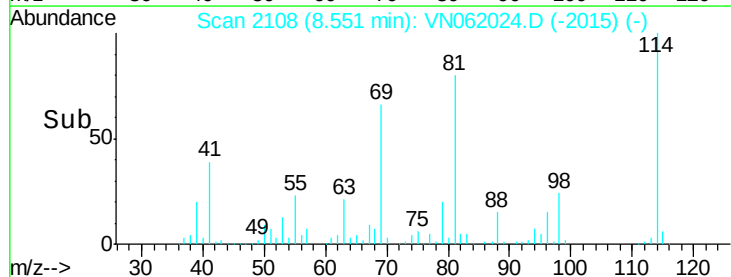
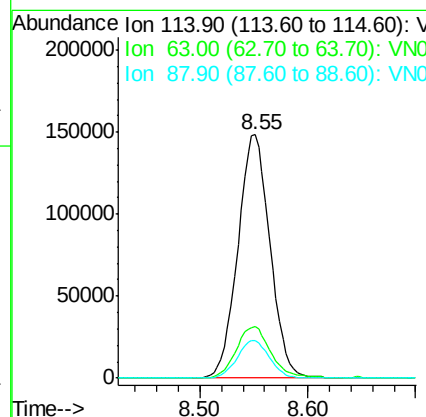
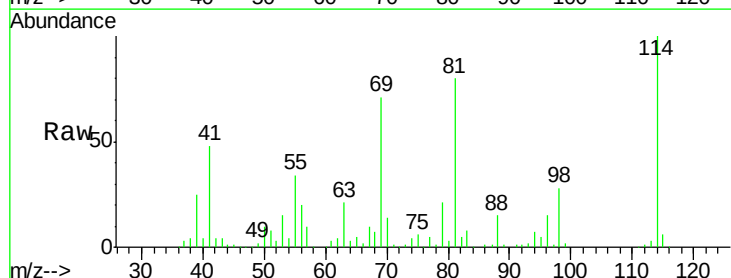
Manual Integrations
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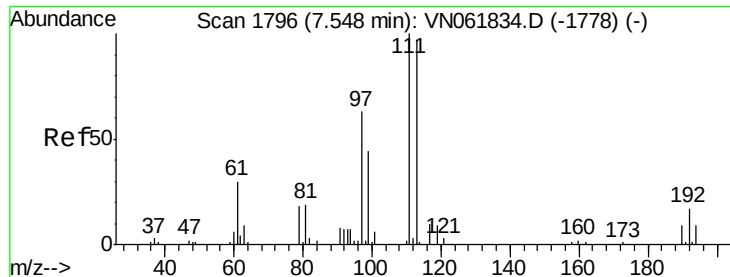
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 6/23/2020 12:45:00 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN062024.D
 Acq: 23 Jun 2020 2:21

Tgt Ion: 114 Resp: 308469
 Ion Ratio Lower Upper
 114 100
 63 21.1 0.0 37.6
 88 15.4 0.0 31.0





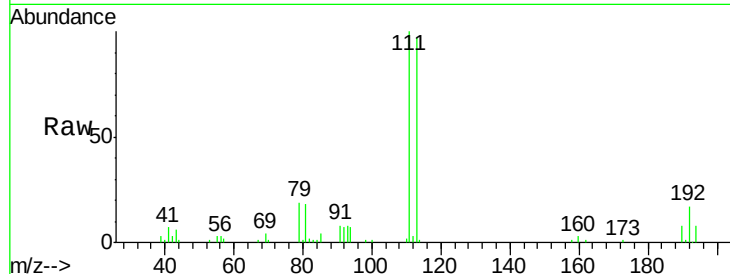
#35
Dibromofluoromethane
Concen: 46.152 ug/l
RT: 7.55 min Scan# 1796
Delta R.T. -0.00 min
Lab File: VN062024.D
Acq: 23 Jun 2020 2:21

Instrument :
MSVOA_N
ClientSampled :
TW-7

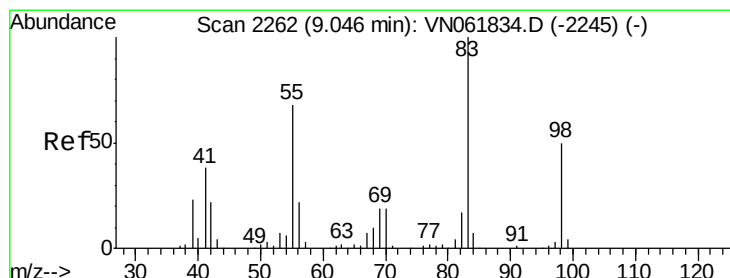
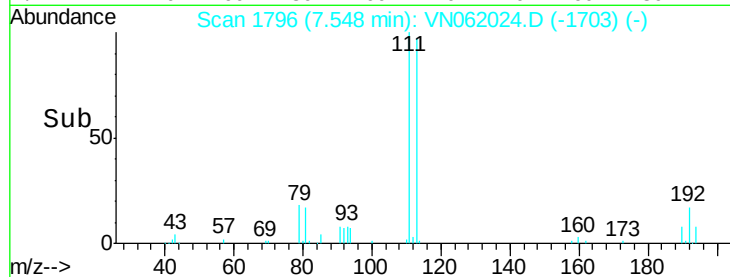
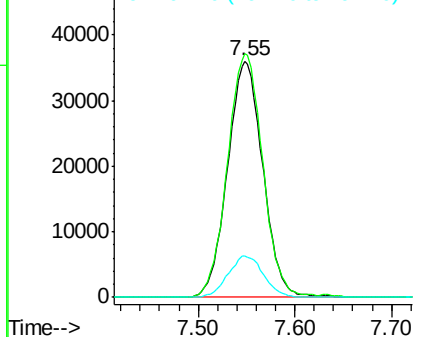
Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	103.1	83.7	125.5	
192	17.5	13.9	20.9	

Manual Integrations
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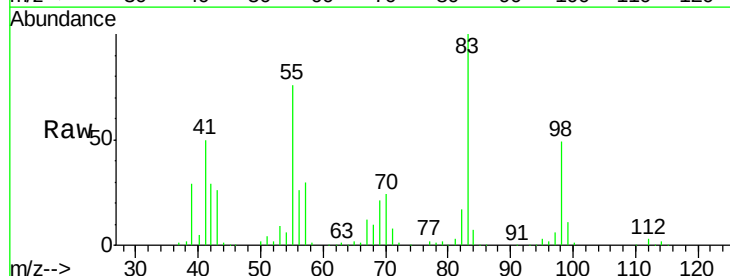


Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

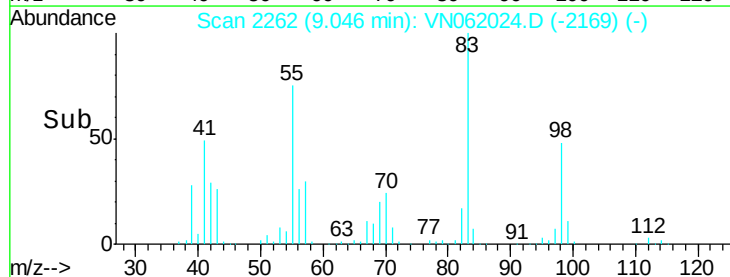
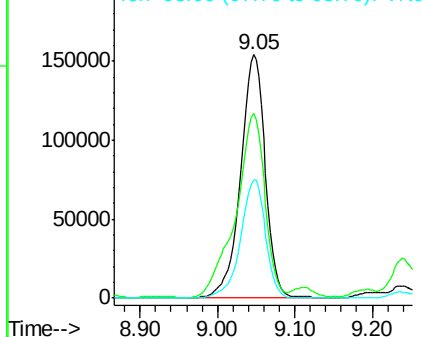


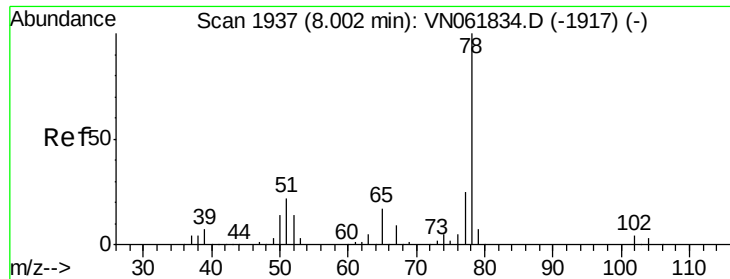
#39
Methylcyclohexane
Concen: 112.531 ug/l
RT: 9.05 min Scan# 2262
Delta R.T. -0.00 min
Lab File: VN062024.D
Acq: 23 Jun 2020 2:21

Tgt Ion	Ratio	Resp	Lower	Upper
83	100			
55	75.4	54.2	81.4	
98	48.7	39.8	59.6	



Abundance Ion 83.00 (82.70 to 83.70): V
Ion 55.00 (54.70 to 55.70): V
Ion 98.00 (97.70 to 98.70): V





#40

Benzene

Concen: 12.798 ug/l

RT: 8.00 min Scan# 1937

Delta R.T. -0.00 min

Lab File: VN062024.D

Acq: 23 Jun 2020 2:21

Instrument :

MSVOA_N

ClientSampled :

TW-7

Tot Ion: 78 Resp: 109080

Ion Ratio Lower Upper

78 100

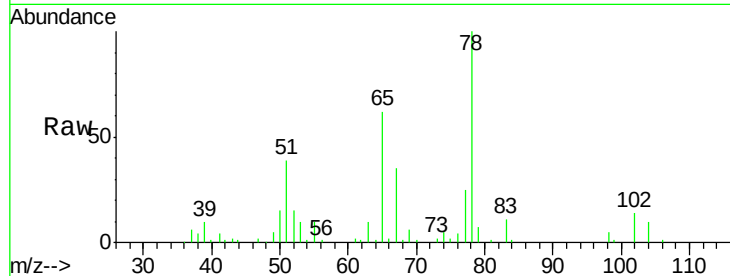
77 25.2 19.7 29.5

Manual Integrations

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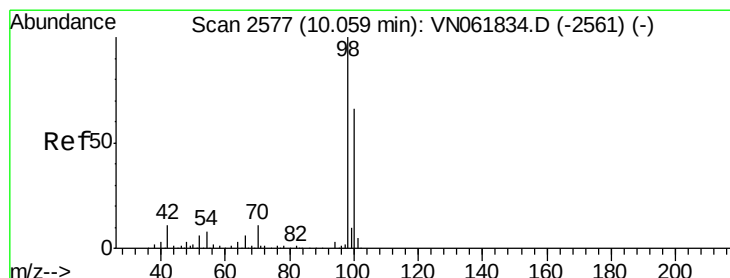
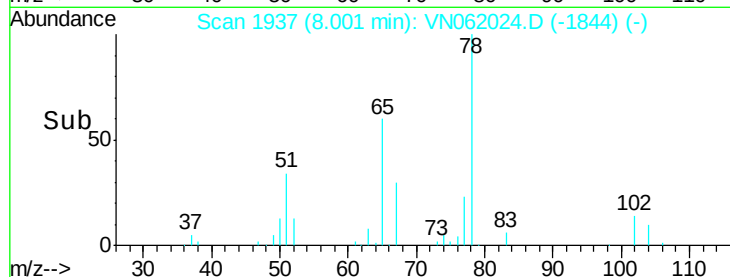
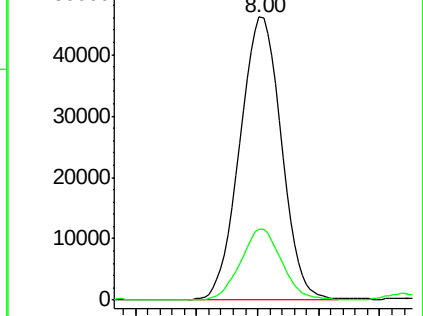
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Abundance Ion 78.00 (77.70 to 78.70): VN0

Ion 77.00 (76.70 to 77.70): VN0



#50

Toluene-d8

Concen: 52.709 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN062024.D

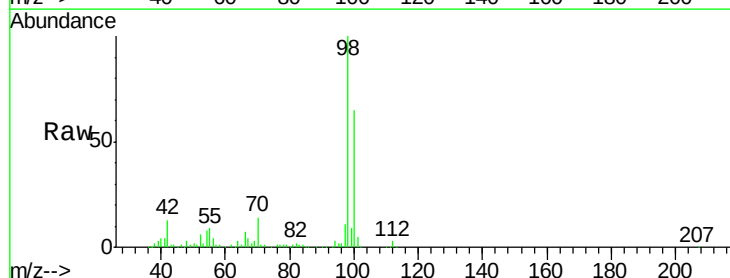
Acq: 23 Jun 2020 2:21

Tgt Ion: 98 Resp: 408936

Ion Ratio Lower Upper

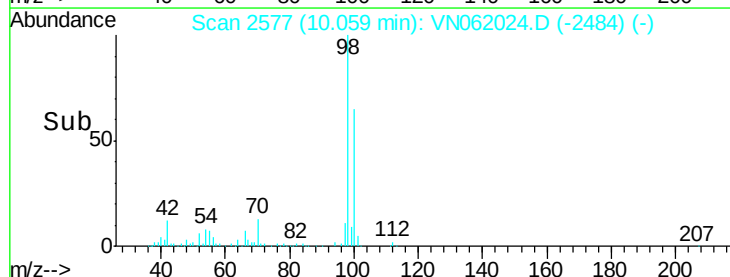
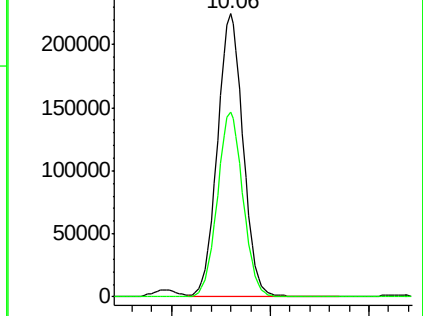
98 100

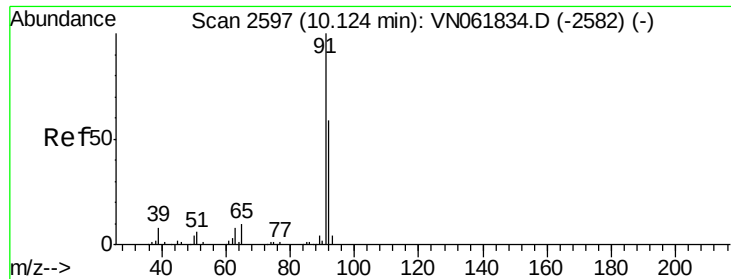
100 65.2 52.7 79.1



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#52

Toluene

Concen: 19.445 ug/l

RT: 10.12 min Scan# 2597

Delta R.T. -0.00 min

Lab File: VN062024.D

Acq: 23 Jun 2020 2:21

Instrument :

MSVOA_N

ClientSampled :

TW-7

Tot Ion: 92 Resp: 104083

Ion Ratio Lower Upper

92 100

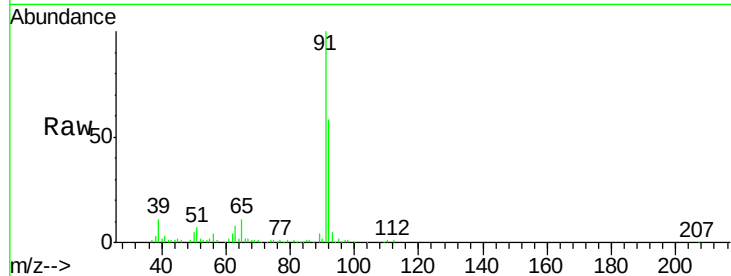
91 168.9 137.1 205.7

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6/23/2020 12:45:00 PM



Abundance Ion 92.00 (91.70 to 92.70): VN061834.D (-2582) (-)

Ion 91.00 (90.70 to 91.70): VN061834.D (-2582) (-)

100000

80000

60000

40000

20000

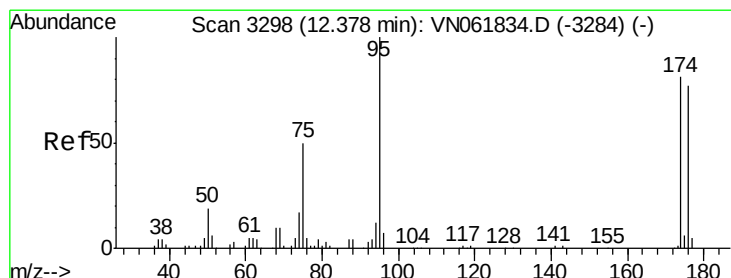
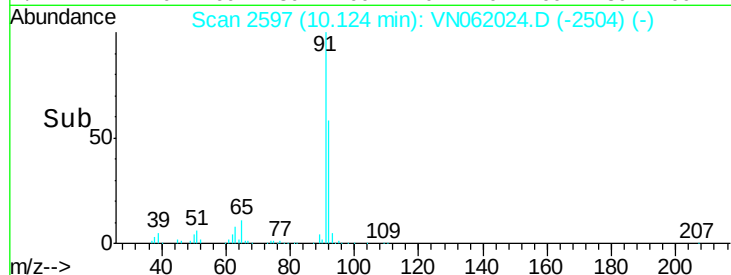
0

10.10

10.12

10.20

Time-->



#62

4-Bromofluorobenzene

Concen: 59.849 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.00 min

Lab File: VN062024.D

Acq: 23 Jun 2020 2:21

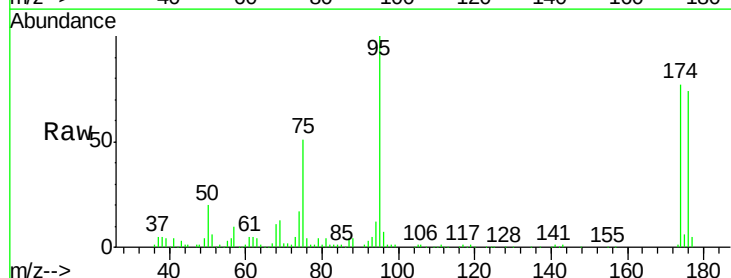
Tgt Ion: 95 Resp: 159271

Ion Ratio Lower Upper

95 100

174 75.4 0.0 158.6

176 72.6 0.0 152.0



Abundance Ion 94.90 (94.60 to 95.60): VN061834.D (-3284) (-)

Ion 173.80 (173.50 to 174.50): VN061834.D (-3284) (-)

Ion 175.80 (175.50 to 176.50): VN061834.D (-3284) (-)

120000

100000

80000

60000

40000

20000

0

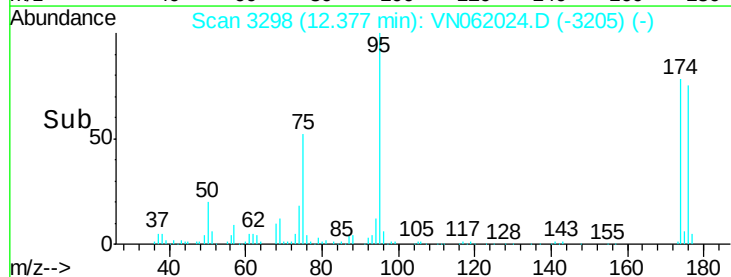
12.30

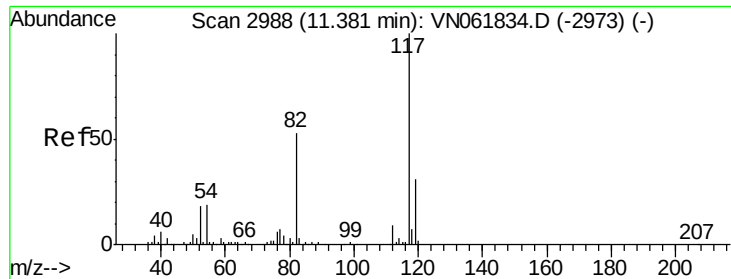
12.35

12.40

12.45

Time-->





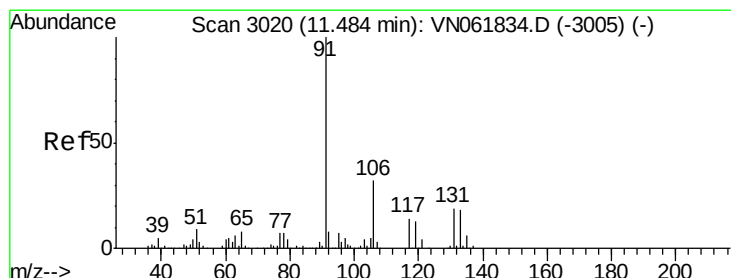
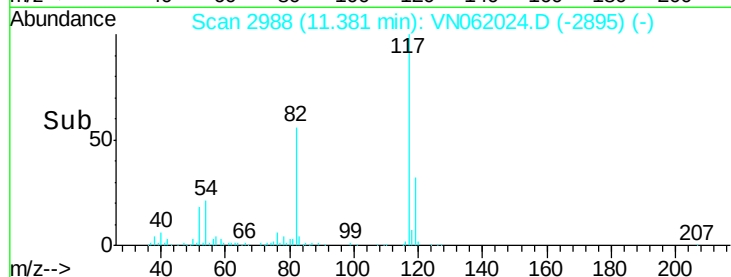
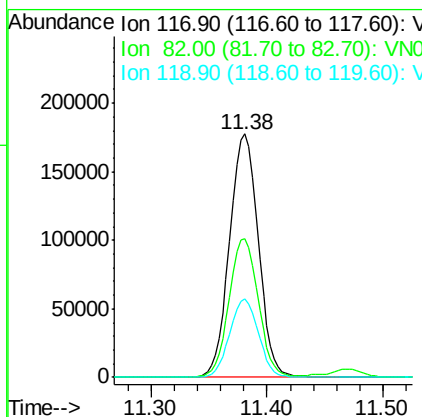
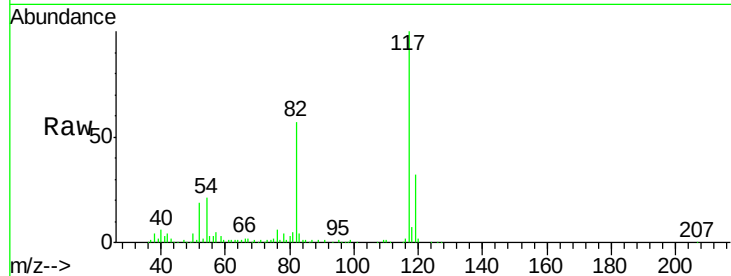
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN062024.D
Acq: 23 Jun 2020 2:21

Instrument :
MSVOA_N
ClientSampled :
TW-7

Tot Ion	Ratio	Resp	Lower	Upper
117	100	306312		
82	56.7	42.6	64.0	
119	32.1	24.7	37.1	

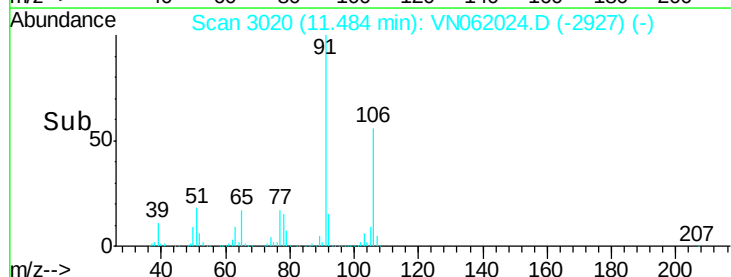
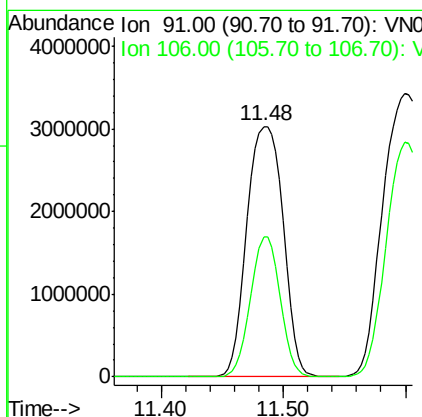
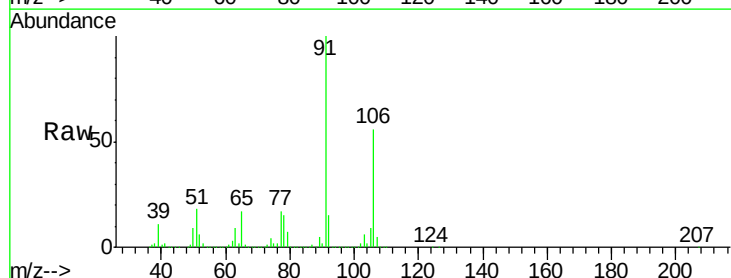
Manual Integrations
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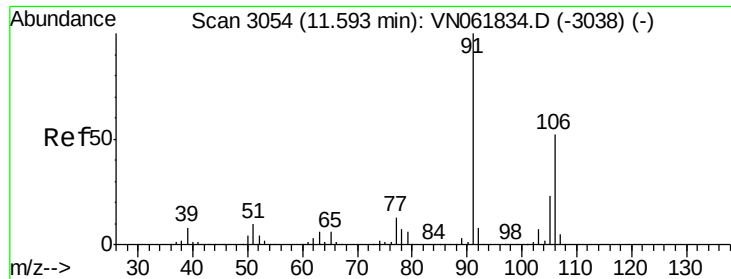
MMDadoda
6/23/2020 12:45:00 PM



#67
Ethyl Benzene
Concen: 575.143 ug/l
RT: 11.48 min Scan# 3020
Delta R.T. -0.00 min
Lab File: VN062024.D
Acq: 23 Jun 2020 2:21

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	6232748		
106	55.9	25.4	38.2	#





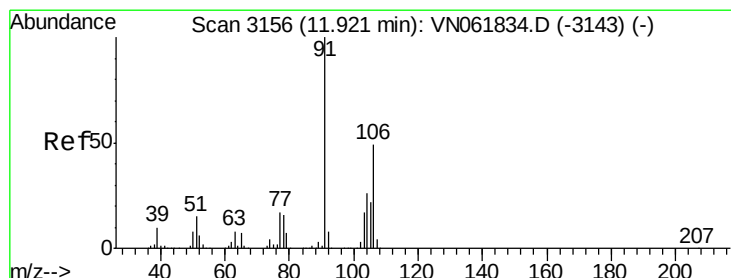
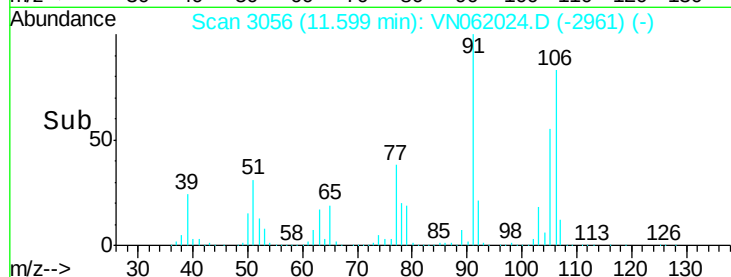
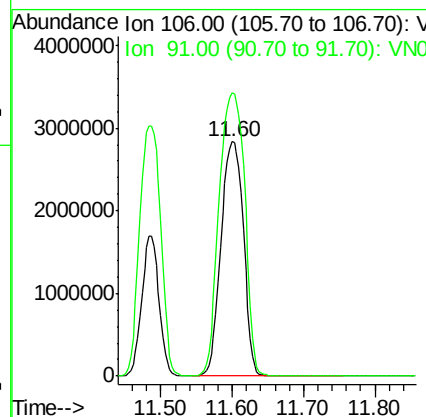
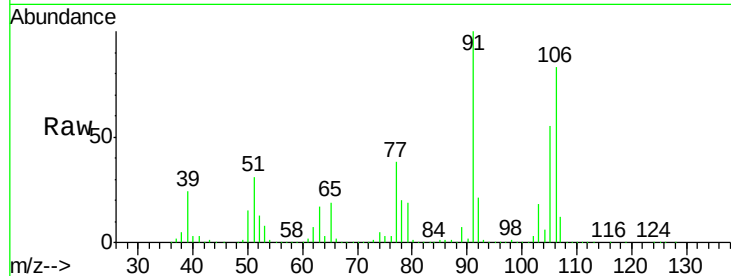
#68
m/p-Xylenes
Concen: 1478.011 ug/l
RT: 11.60 min Scan# 3056
Delta R.T. 0.01 min
Lab File: VN062024.D
Acq: 23 Jun 2020 2:21

Instrument :
MSVOA_N
ClientSampled :
TW-7

Tot Ion:106 Resp: 6176157
Ion Ratio Lower Upper
106 100
91 138.3 157.0 235.6#

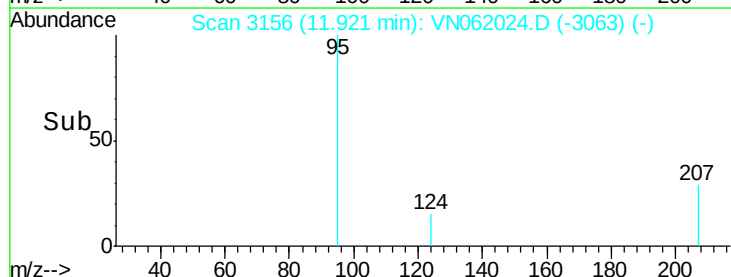
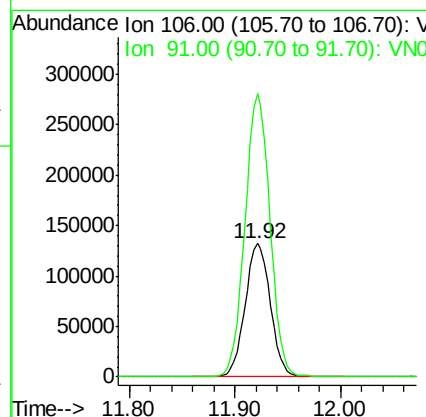
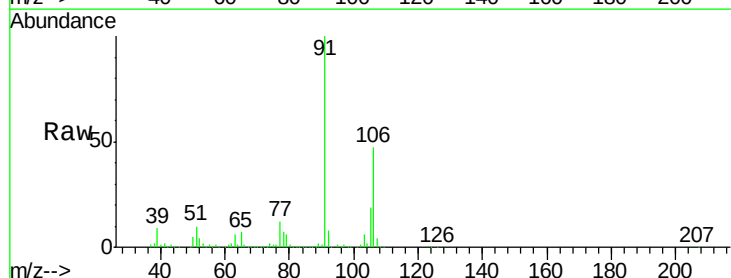
Manual Integrations
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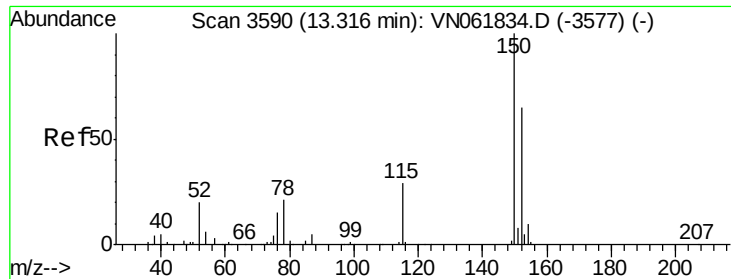
MMDadoda
6/23/2020 12:45:00 PM



#69
o-Xylene
Concen: 55.019 ug/l
RT: 11.92 min Scan# 3156
Delta R.T. -0.00 min
Lab File: VN062024.D
Acq: 23 Jun 2020 2:21

Tgt Ion:106 Resp: 219368
Ion Ratio Lower Upper
106 100
91 210.2 103.0 308.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN062024.D

Acq: 23 Jun 2020 2:21

Instrument :

MSVOA_N

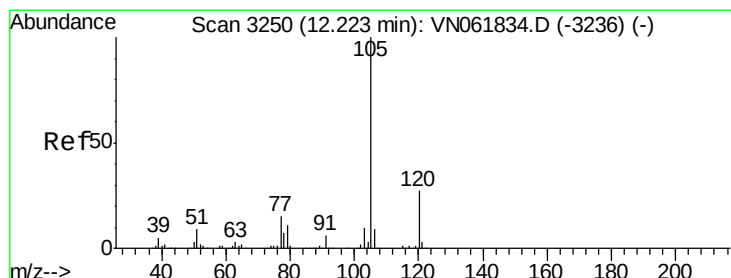
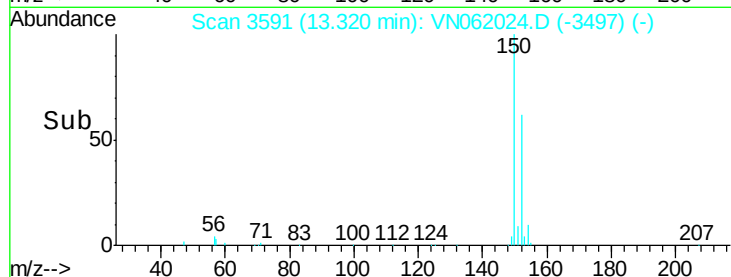
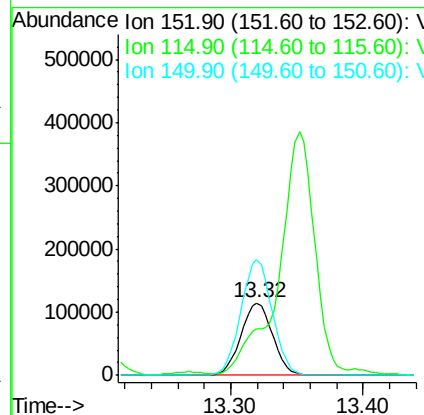
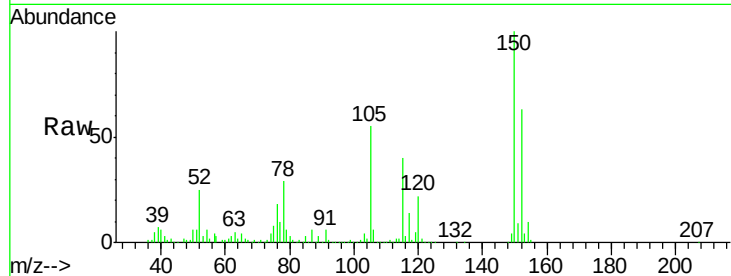
ClientSampled :

TW-7

Tot Ion	Ratio	Lower	Upper
152	100		
115	0.0	29.1	87.3#
150	159.4	0.0	347.6

Manual Integrations
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MMDadoda
6/23/2020 12:45:00 PM



#73

Isopropylbenzene

Concen: 510.999 ug/l

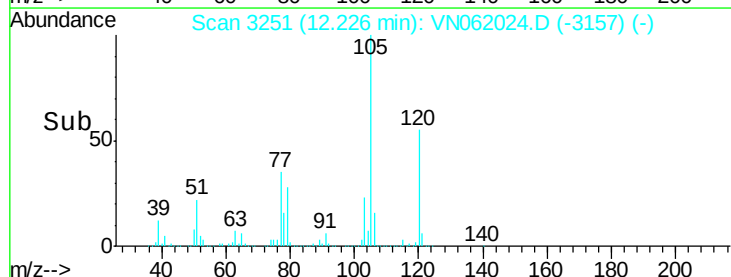
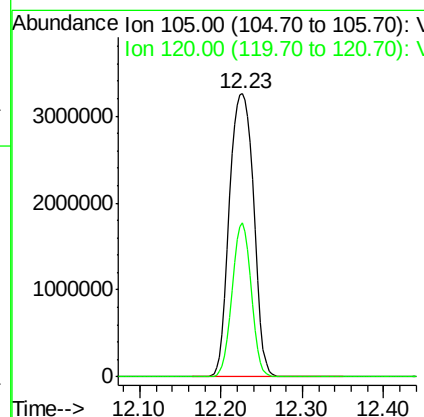
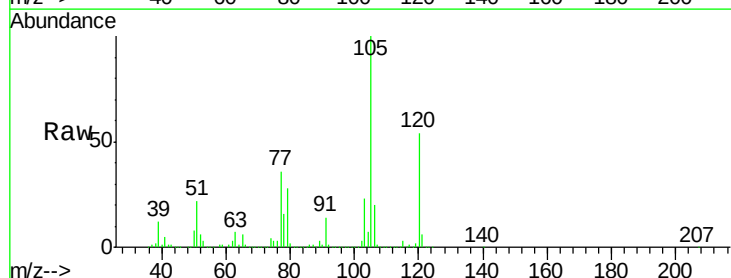
RT: 12.23 min Scan# 3251

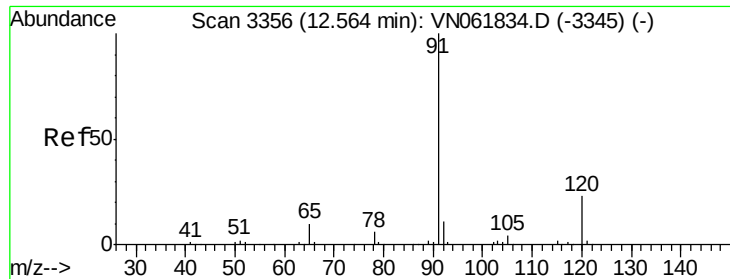
Delta R.T. 0.00 min

Lab File: VN062024.D

Acq: 23 Jun 2020 2:21

Tgt Ion	Ratio	Lower	Upper
105	100		
120	43.0	13.3	39.8#





#78

n-propylbenzene

Concen: 498.104 ug/l

RT: 12.57 min Scan# 3357

Delta R.T. 0.00 min

Lab File: VN062024.D

Acq: 23 Jun 2020 2:21

Instrument :

MSVOA_N

ClientSampled :

TW-7

Tot Ion: 91 Resp: 7647876

Ion Ratio Lower Upper

91 100

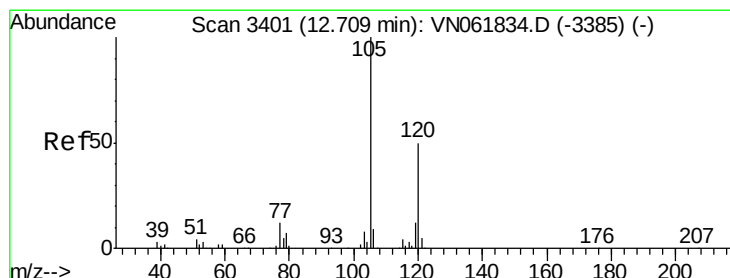
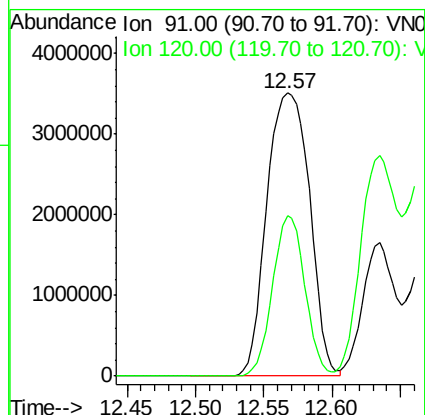
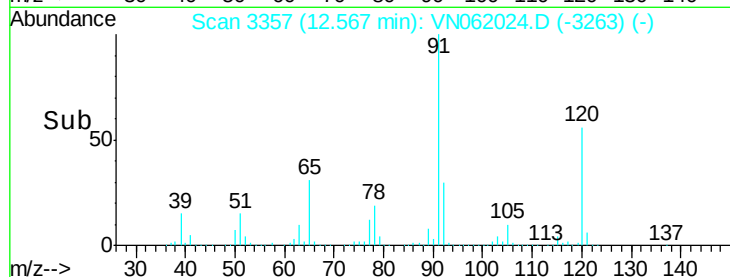
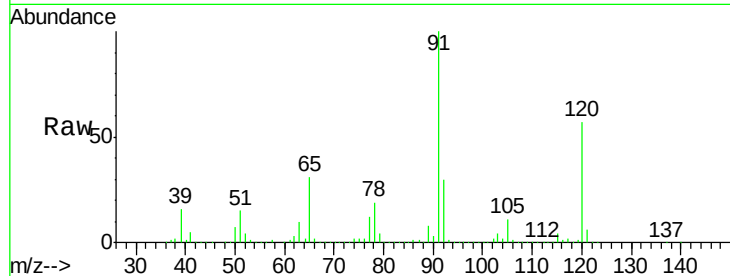
120 42.7 11.6 34.8#

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 705.584 ug/l m

RT: 12.71 min Scan# 3402

Delta R.T. 0.00 min

Lab File: VN062024.D

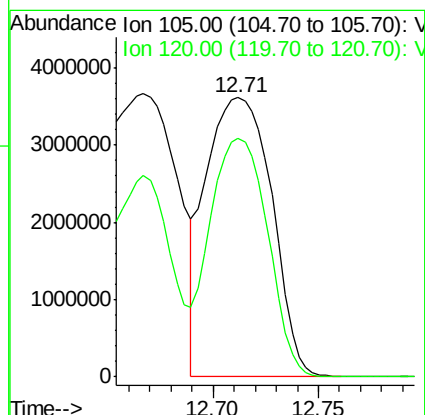
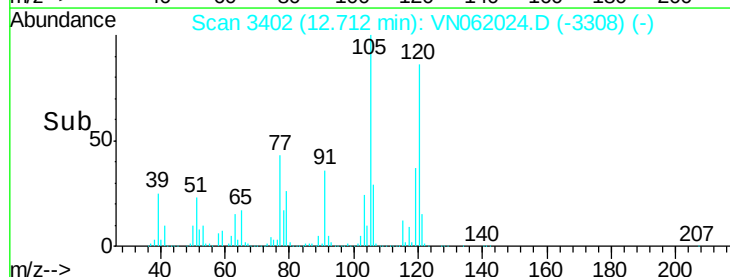
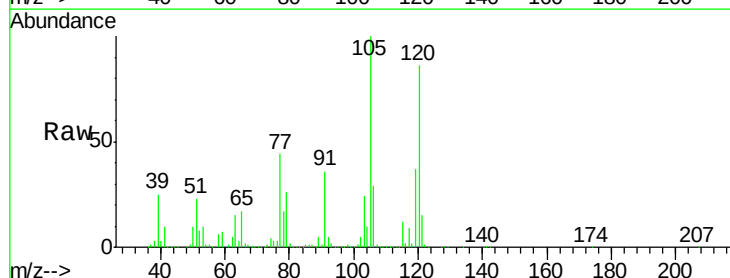
Acq: 23 Jun 2020 2:21

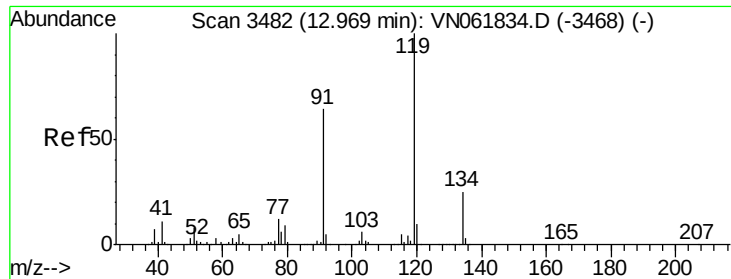
Tgt Ion: 105 Resp: 7854929

Ion Ratio Lower Upper

105 100

120 62.7 24.9 74.7





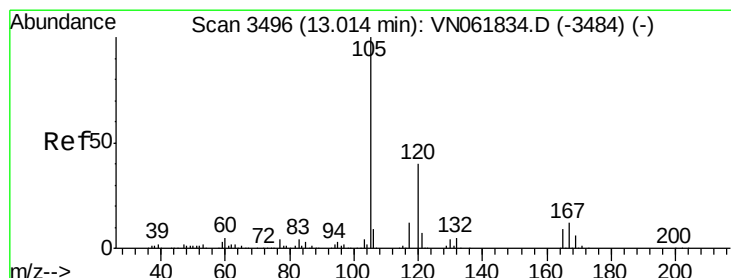
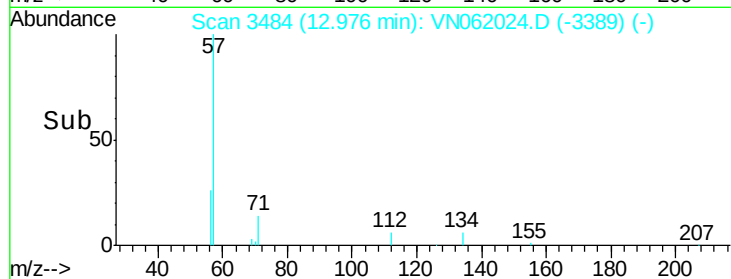
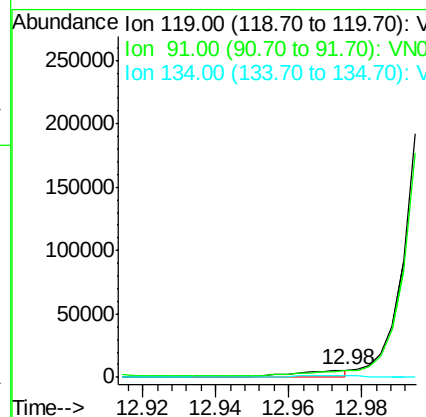
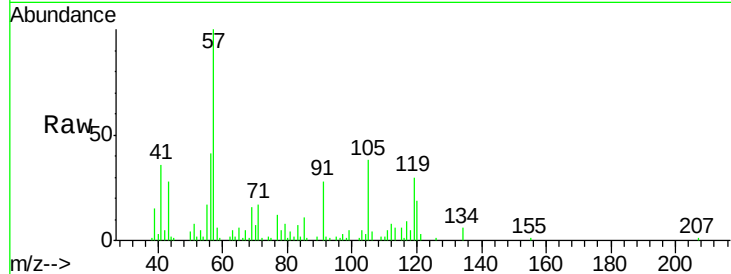
#83
tert-Butylbenzene
Concen: 0.638 ug/l m
RT: 12.98 min Scan# 3484
Delta R.T. 0.01 min
Lab File: VN062024.D
Acq: 23 Jun 2020 2:21

Instrument :
MSVOA_N
ClientSampled :
TW-7

Tot Ion:119 Resp: 6018
Ion Ratio Lower Upper
119 100
91 85286.4 31.5 94.
134 0.0 13.3 39.9#

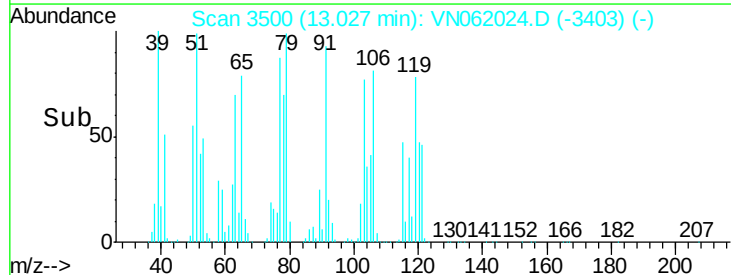
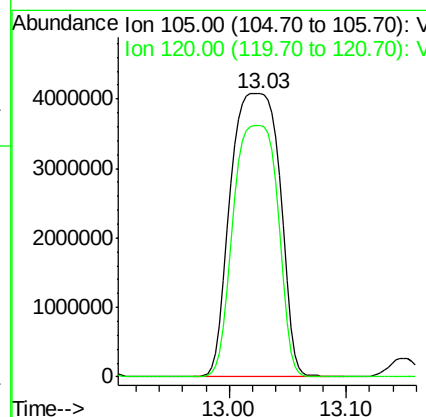
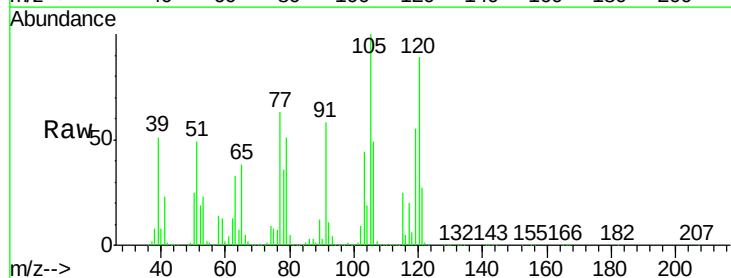
Manual Integrations
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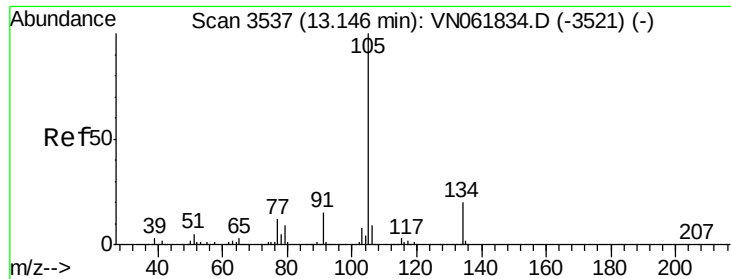
MMDadoda
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#84
1,2,4-Trimethylbenzene
Concen: 1090.185 ug/l m
RT: 13.03 min Scan# 3500
Delta R.T. 0.01 min
Lab File: VN062024.D
Acq: 23 Jun 2020 2:21

Tgt Ion:105 Resp:11980333
Ion Ratio Lower Upper
105 100
120 39.1 23.3 69.9





#85

sec-Butylbenzene

Concen: 35.276 ug/l

RT: 13.15 min Scan# 3538

Delta R.T. 0.00 min

Lab File: VN062024.D

Acq: 23 Jun 2020 2:21

Instrument :

MSVOA_N

ClientSampleId :

TW-7

Tot Ion:105 Resp: 435765

Ion Ratio Lower Upper

105 100

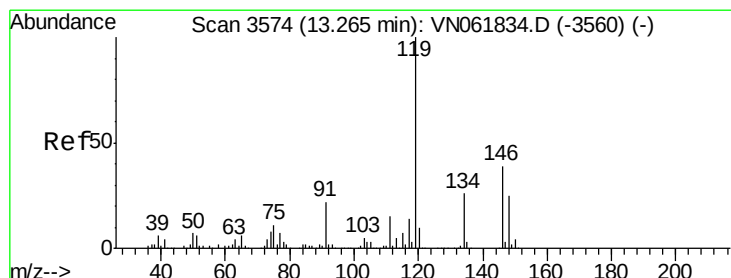
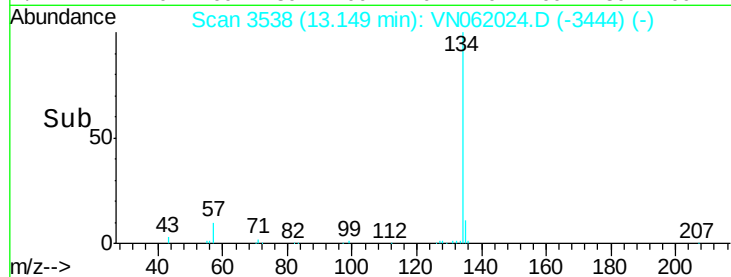
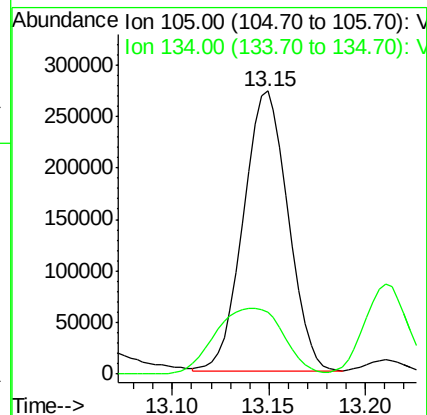
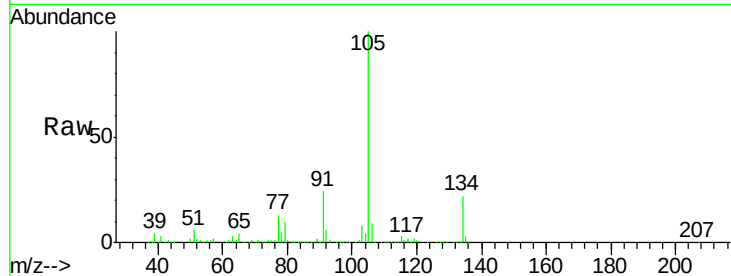
134 36.0 10.1 30.1#

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#86

p-Isopropyltoluene

Concen: 10.968 ug/l m

RT: 13.27 min Scan# 3575

Delta R.T. 0.00 min

Lab File: VN062024.D

Acq: 23 Jun 2020 2:21

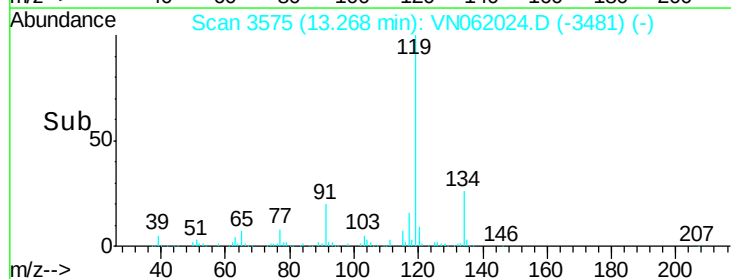
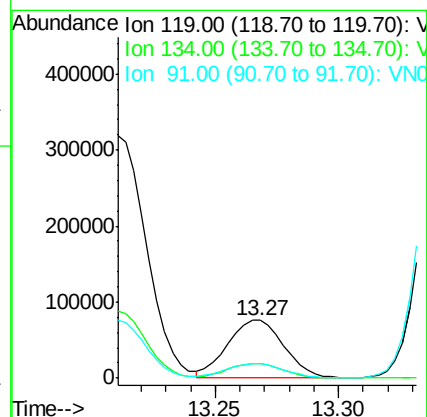
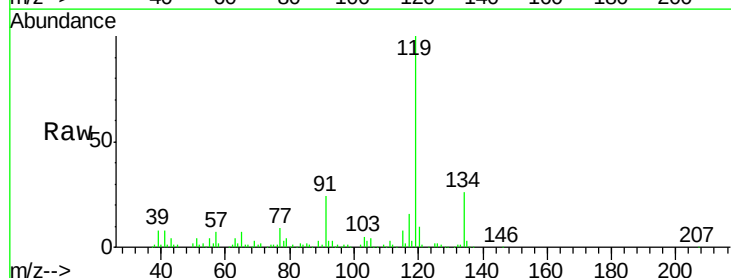
Tgt Ion:119 Resp: 120735

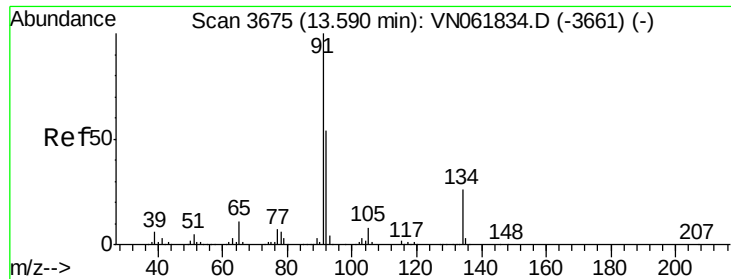
Ion Ratio Lower Upper

119 100

134 113.1 13.3 39.9#

91 0.0 11.2 33.6#





#89

n-Butylbenzene

Concen: 42.040 ug/l

RT: 13.59 min Scan# 3675

Delta R.T. -0.00 min

Lab File: VN062024.D

Acq: 23 Jun 2020 2:21

Instrument :

MSVOA_N

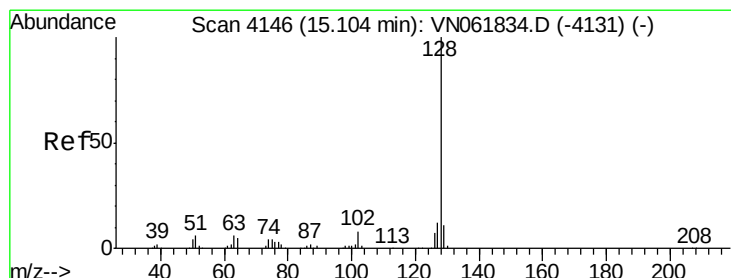
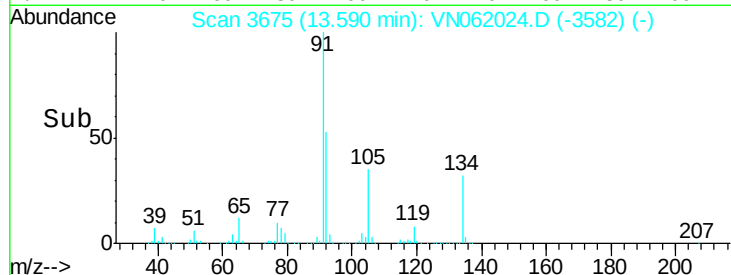
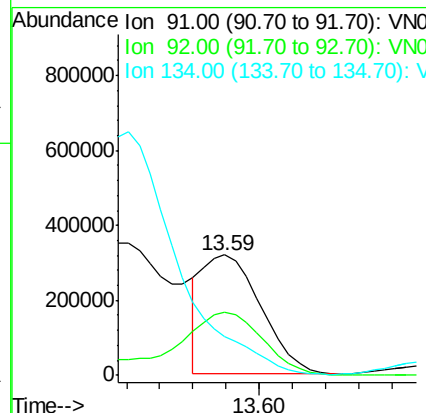
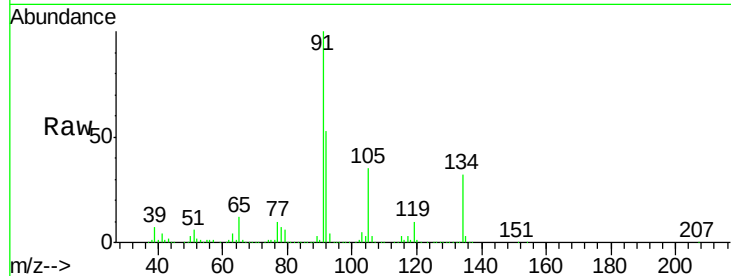
ClientSampled :

TW-7

Tot Ion:	91	Resp:	386466
Ion Ratio	Lower	Upper	
91	100		
92	83.0	27.0	80.8#
134	0.0	13.0	39.0#

Manual Integrations
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#95

Naphthalene

Concen: 522.275 ug/l

RT: 15.10 min Scan# 4146

Delta R.T. 0.00 min

Lab File: VN062024.D

Acq: 23 Jun 2020 2:21

Tgt Ion:	128	Resp:	5252520
Ion Ratio	Lower	Upper	
128	100		
127	15.6	10.3	15.5#
129	13.3	8.6	13.0#

