

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051820\
 Data File : VN061468.D
 Acq On : 19 May 2020 8:29
 Operator : JC/MD
 Sample : L2645-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 DUP-051320

Manual Integrations
 APPROVED

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 5/19/2020 4:24:03 PM

Quant Time: May 19 15:29:29 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051820W.M
 Quant Title : SW846 8260
 QLast Update : Mon May 18 13:09:55 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	358555	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	644832	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	613525	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	343022	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	230910	43.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.30%	
35) Dibromofluoromethane	7.55	113	13488	3.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	7.98%	
50) Toluene-d8	10.06	98	768769	49.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.12%	
62) 4-Bromofluorobenzene	12.38	95	318138	54.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.70%	
Target Compounds						
					Qvalue	
6) Chloroethane	2.67	64	17125	3.656	ug/l	97
11) Tert butyl alcohol	4.73	59	197748	320.713	ug/l #	73
17) Carbon Disulfide	4.01	76	35580	1.402	ug/l #	94
25) 2-Butanone	6.79	43	253437	104.018	ug/l	98
30) Chloroform	7.33	83	993496	121.333	ug/l	100
31) Cyclohexane	7.61	56	1471761	223.638	ug/l	97
39) Methylcyclohexane	9.05	83	945084	128.332	ug/l	97
40) Benzene	8.00	78	13352478	734.846	ug/l #	24
47) Bromodichloromethane	9.37	83	42159	6.276	ug/l #	75
52) Toluene	10.13	92	13640763	1169.320	ug/l #	55
59) 2-Hexanone	10.72	43	184339	49.043	ug/l	77
65) Chlorobenzene	11.41	112	51525	4.118	ug/l	97
67) Ethyl Benzene	11.49	91	12924934	565.944	ug/l #	1
68) m/p-Xylenes	11.62	106	14957186	1725.444	ug/l #	1
69) o-Xylene	11.93	106	9268330	1104.853	ug/l	42
73) Isopropylbenzene	12.22	105	2836582	103.008	ug/l	96
78) n-propylbenzene	12.57	91	6502666	207.248	ug/l #	72
80) 1,3,5-Trimethylbenzene	12.71	105	6554268m	290.685	ug/l	
84) 1,2,4-Trimethylbenzene	13.02	105	11330061m	502.101	ug/l	
85) sec-Butylbenzene	13.15	105	432682	16.568	ug/l #	63
86) p-Isopropyltoluene	13.27	119	162685	7.015	ug/l #	74
89) n-Butylbenzene	13.59	91	436471m	20.717	ug/l	
91) 1,2-Dichlorobenzene	13.63	146	31072	2.962	ug/l	91
95) Naphthalene	15.10	128	7140540	394.826	ug/l #	84

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

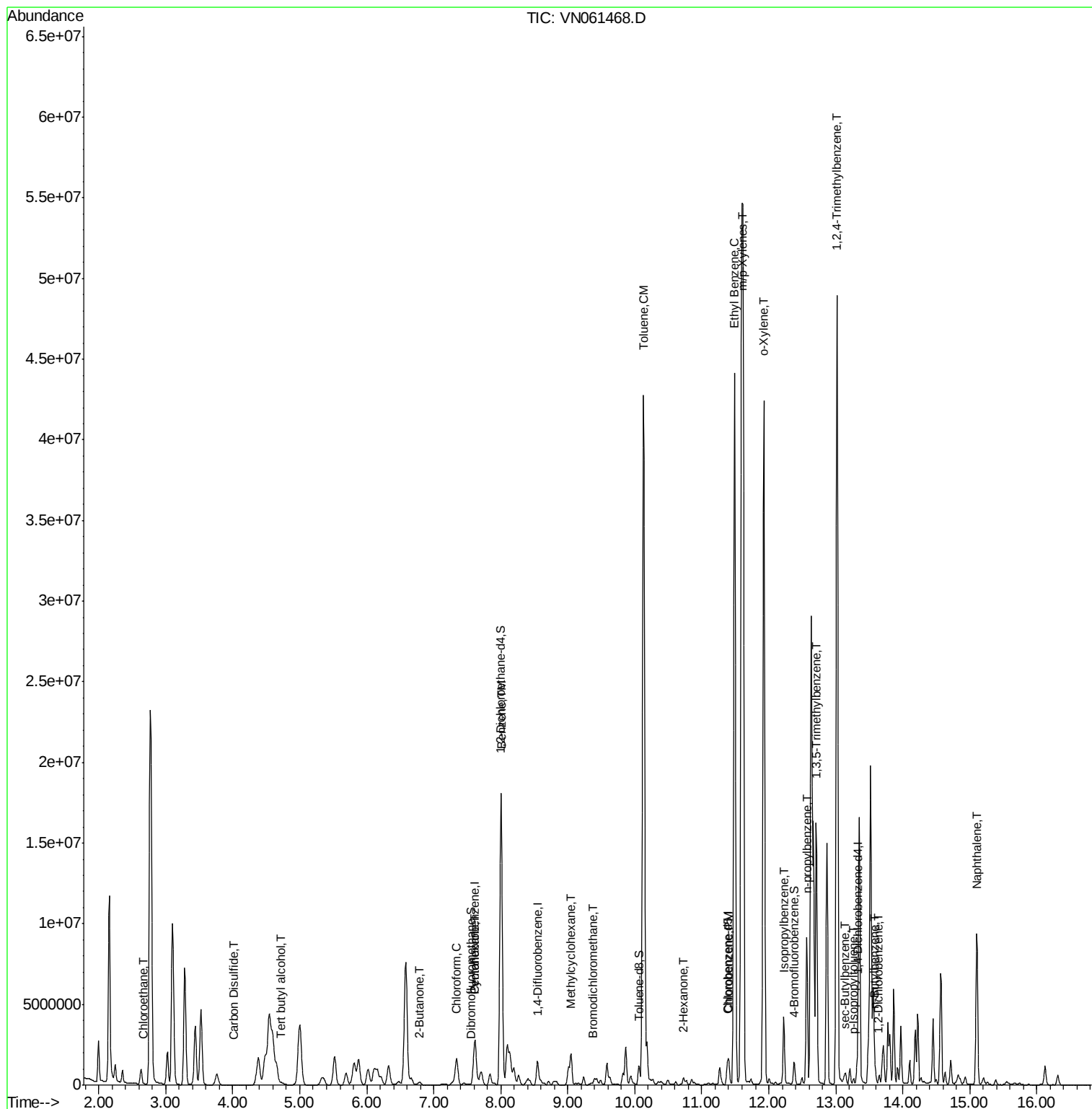
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN051820\
Data File : VN061468.D
Acq On : 19 May 2020 8:29
Operator : JC/MD
Sample : L2645-06
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 48 Sample Multiplier: 1

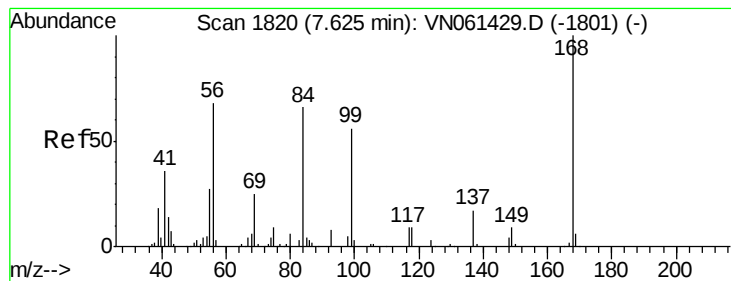
Instrument :
MSVOA_N
ClientSampleId :
DUP-051320

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Quant Time: May 19 15:29:29 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N051820W.M
Quant Title : SW846 8260
QLast Update : Mon May 18 13:09:55 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: VN061468.D

Acq: 19 May 2020 8:29

Instrument :

MSVOA_N

ClientSampleId :

DUP-051320

Tot Ion:168 Resp: 358555

Ion Ratio Lower Upper

168 100

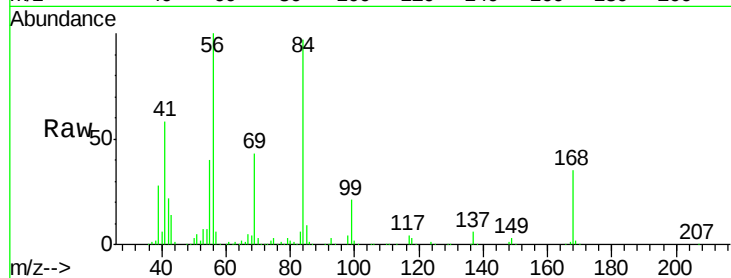
99 58.3 51.1 76.7

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): VN061429.D (-1801) (-)

Ion 98.90 (98.60 to 99.60): VN061429.D (-1801) (-)

7.63

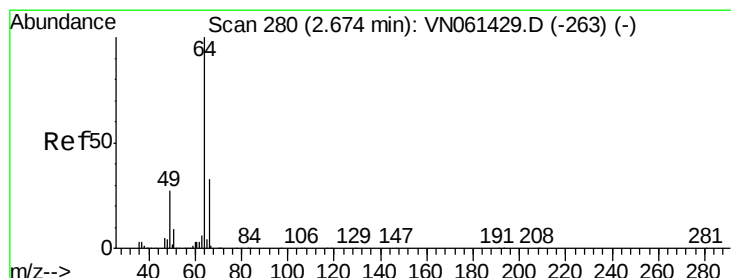
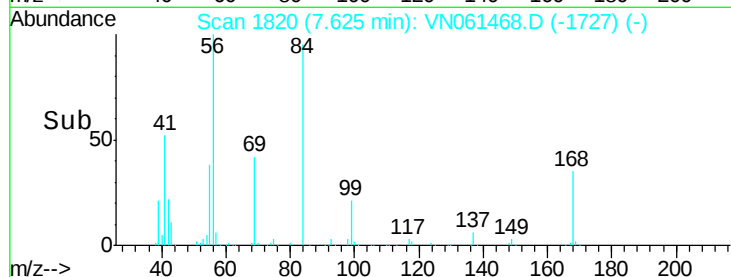
150000

100000

50000

0

Time--> 7.50 7.60 7.70



#6

Chloroethane

Concen: 3.656 ug/l

RT: 2.67 min Scan# 280

Delta R.T. 0.00 min

Lab File: VN061468.D

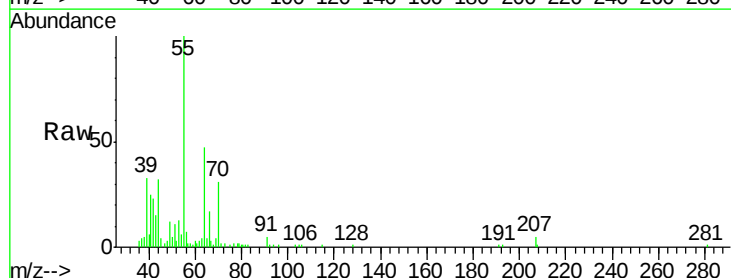
Acq: 19 May 2020 8:29

Tgt Ion: 64 Resp: 17125

Ion Ratio Lower Upper

64 100

66 34.6 26.3 39.5



Abundance Ion 63.90 (63.60 to 64.60): VN061429.D (-263) (-)

Ion 65.90 (65.60 to 66.60): VN061429.D (-263) (-)

2.67

10000

8000

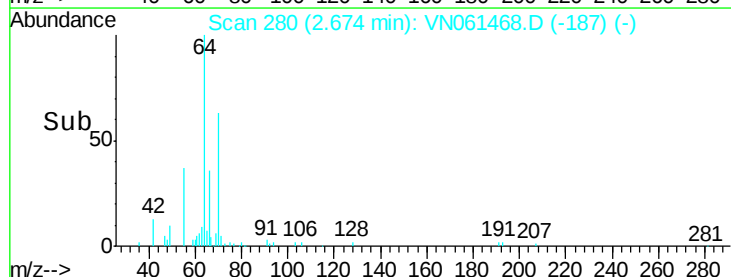
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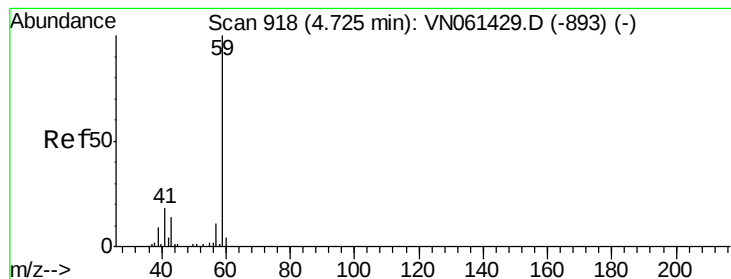
4000

2000

0

Time--> 2.60 2.65 2.70 2.75





#11

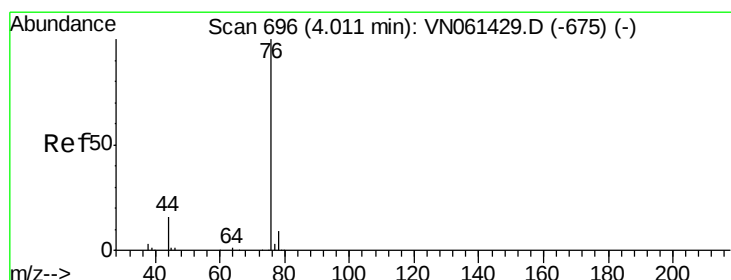
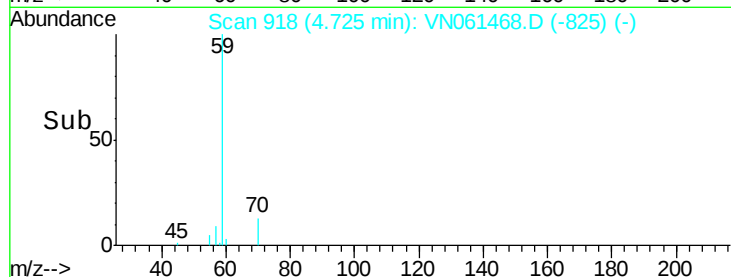
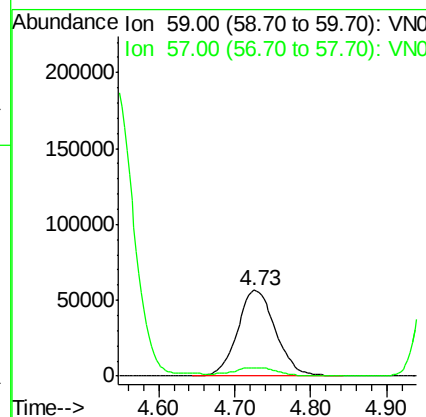
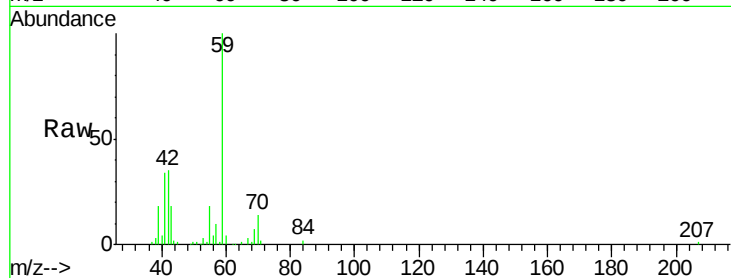
Tert butyl alcohol
Concen: 320.713 ug/l
RT: 4.73 min Scan# 918
Delta R.T. 0.00 min
Lab File: VN061468.D
Acq: 19 May 2020 8:29

Instrument :
MSVOA_N
ClientSampleId :
DUP-051320

Tot Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.2	12.2#

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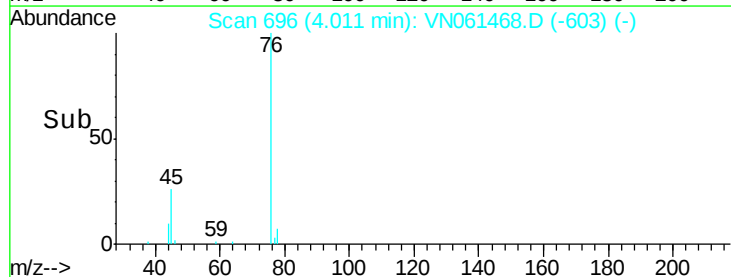
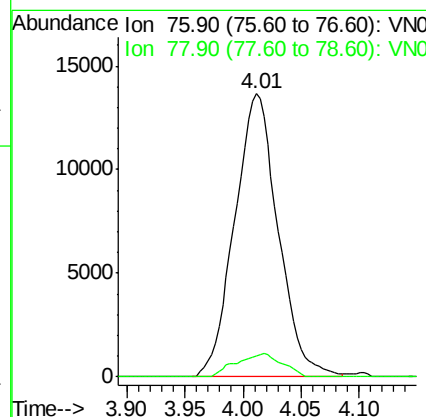
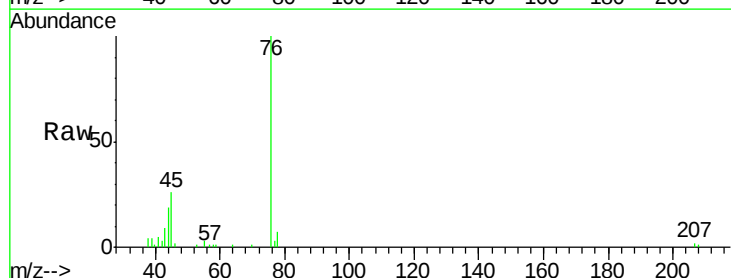
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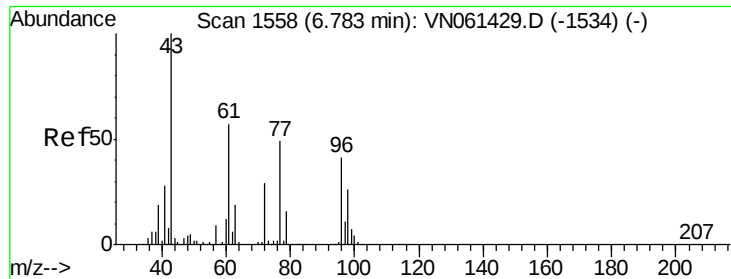


#17

Carbon Disulfide
Concen: 1.402 ug/l
RT: 4.01 min Scan# 696
Delta R.T. 0.00 min
Lab File: VN061468.D
Acq: 19 May 2020 8:29

Tgt Ion	Ratio	Lower	Upper
76	100		
78	7.2	7.4	11.0#





#25

2-Butanone

Concen: 104.018 ug/l

RT: 6.79 min Scan# 1559

Delta R.T. 0.00 min

Lab File: VN061468.D

Acq: 19 May 2020 8:29

Instrument :

MSVOA_N

ClientSampleId :

DUP-051320

Tot Ion: 43 Resp: 253437

Ion Ratio Lower Upper

43 100

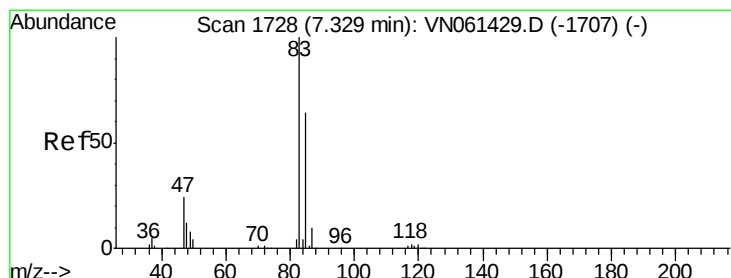
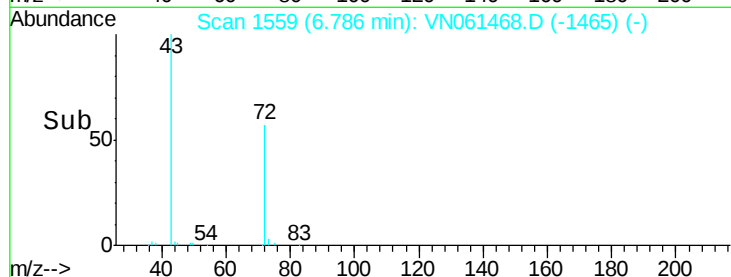
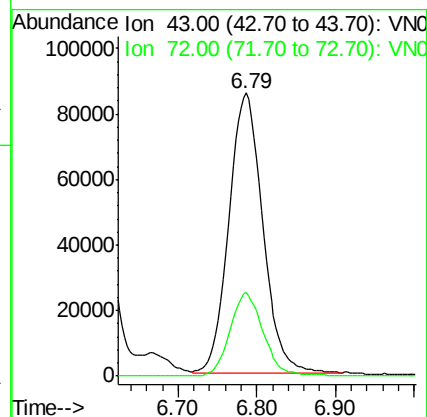
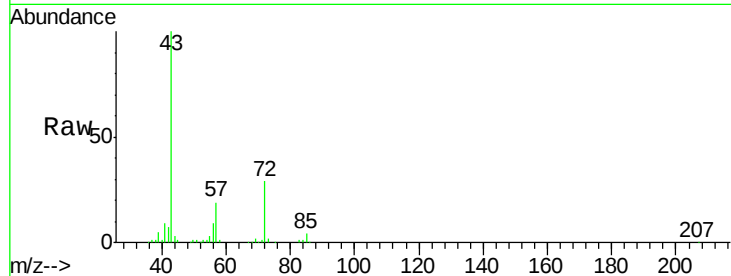
72 29.8 23.0 34.6

Manual Integrations

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#30

Chloroform

Concen: 121.333 ug/l

RT: 7.33 min Scan# 1728

Delta R.T. 0.00 min

Lab File: VN061468.D

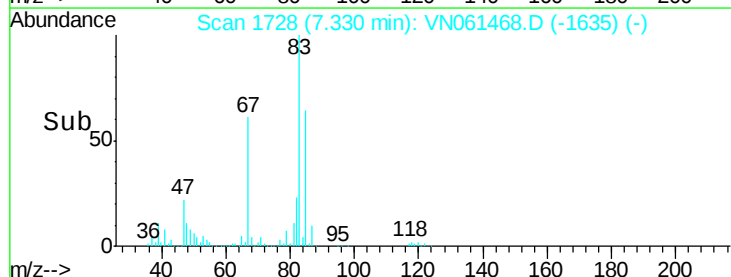
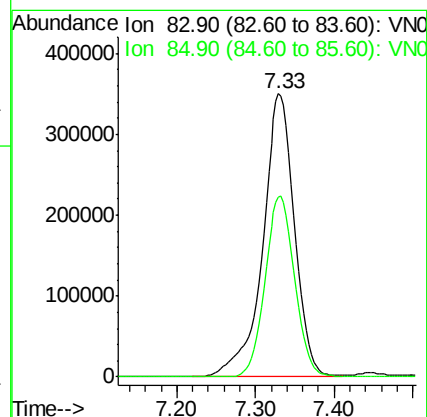
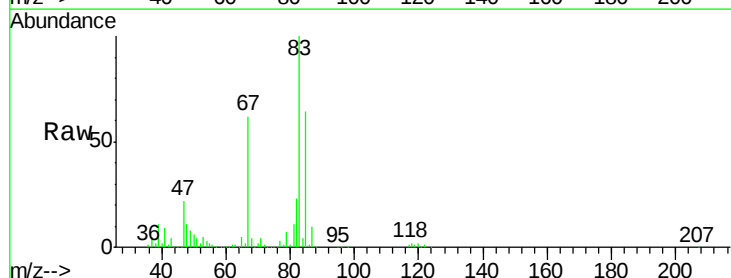
Acq: 19 May 2020 8:29

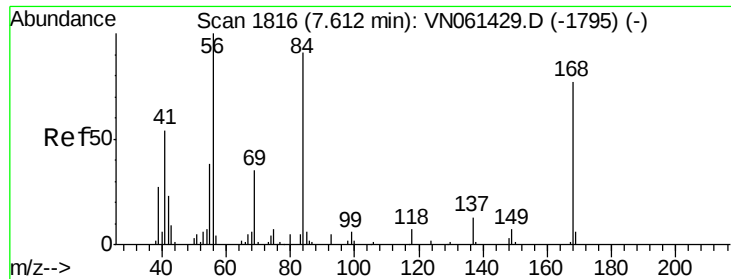
Tgt Ion: 83 Resp: 993496

Ion Ratio Lower Upper

83 100

85 63.6 51.0 76.4





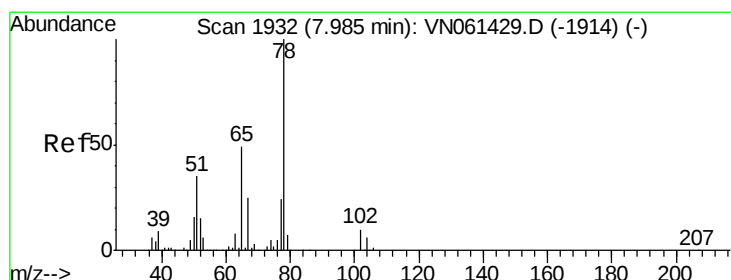
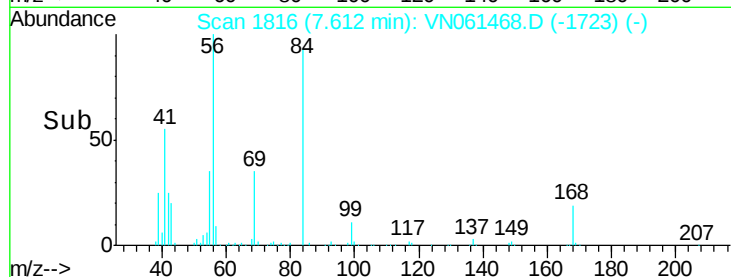
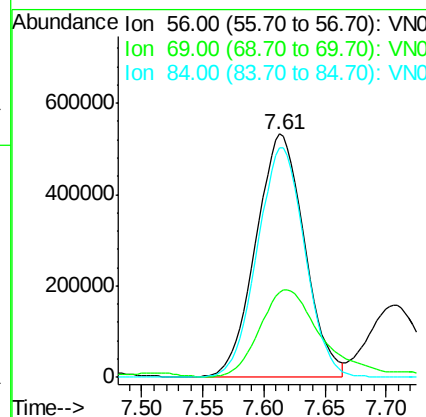
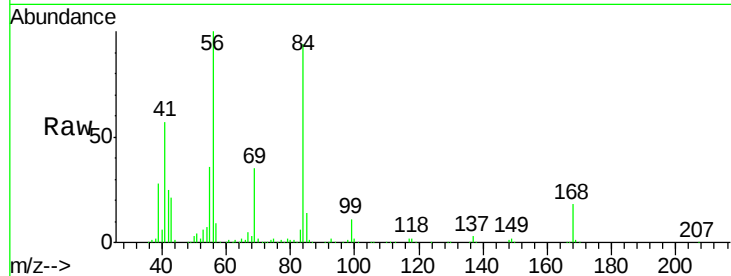
#31
Cyclohexane
Concen: 223.638 ug/l
RT: 7.61 min Scan# 1816
Delta R.T. 0.00 min
Lab File: VN061468.D
Acq: 19 May 2020 8:29

Instrument :
MSVOA_N
ClientSampleId :
DUP-051320

Tot Ion: 56 Resp: 1471761
Ion Ratio Lower Upper
56 100
69 34.6 27.8 41.6
84 94.5 72.7 109.1

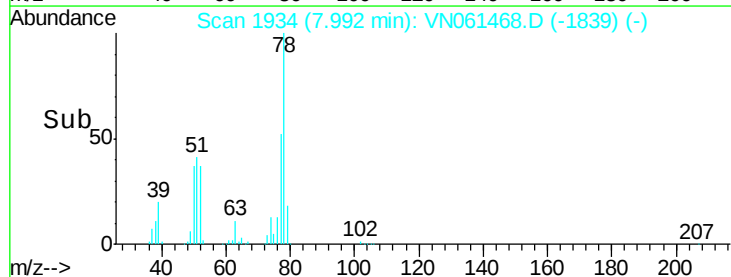
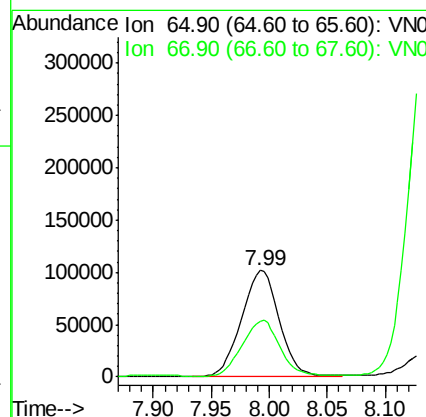
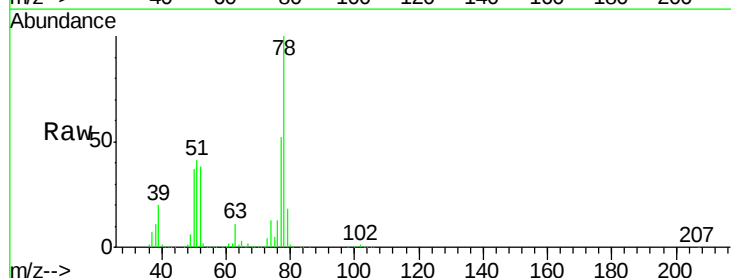
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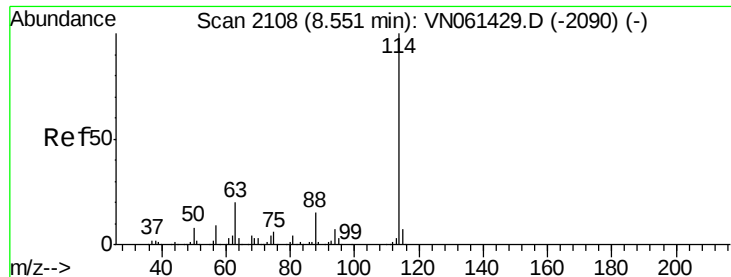
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#33
1,2-Dichloroethane-d4
Concen: 43.151 ug/l
RT: 7.99 min Scan# 1934
Delta R.T. 0.01 min
Lab File: VN061468.D
Acq: 19 May 2020 8:29

Tgt Ion: 65 Resp: 230910
Ion Ratio Lower Upper
65 100
67 53.4 0.0 101.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2108

Delta R.T. 0.00 min

Lab File: VN061468.D

Acq: 19 May 2020 8:29

Instrument :

MSVOA_N

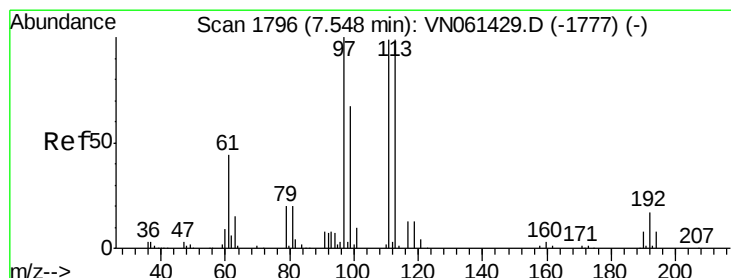
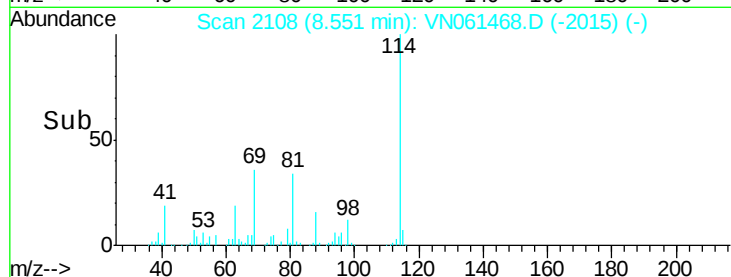
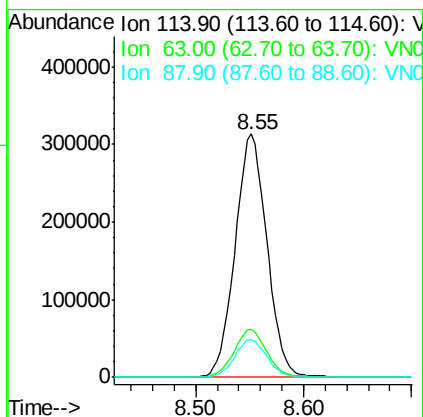
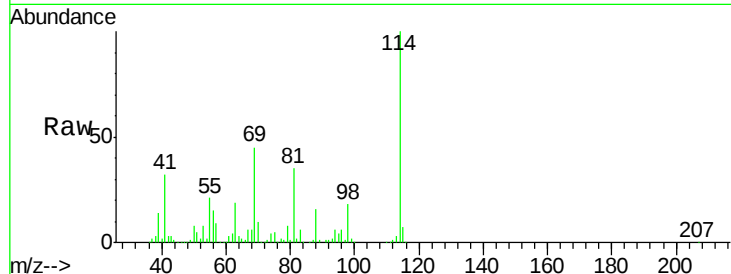
ClientSampleId :

DUP-051320

Tot Ion:	114	Resp:	644832
Ion Ratio		Lower	Upper
114	100		
63	19.4	0.0	40.8
88	15.6	0.0	30.8

Manual Integrations
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#35

Dibromofluoromethane

Concen: 3.993 ug/l

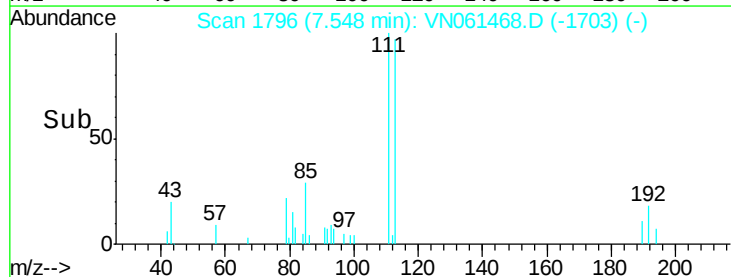
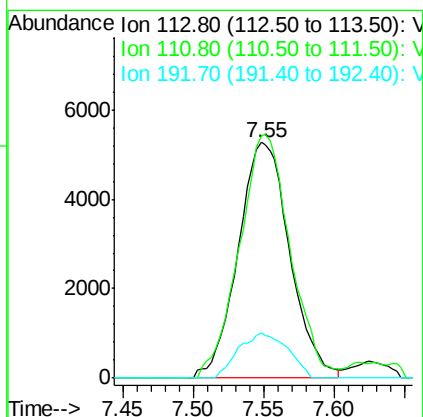
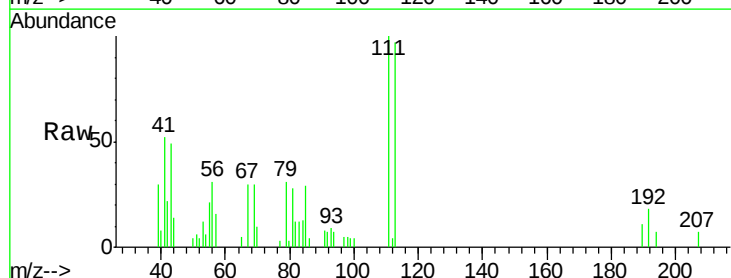
RT: 7.55 min Scan# 1796

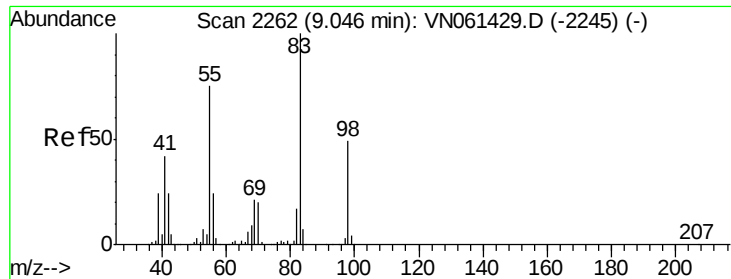
Delta R.T. 0.00 min

Lab File: VN061468.D

Acq: 19 May 2020 8:29

Tgt Ion:	113	Resp:	13488
Ion Ratio		Lower	Upper
113	100		
111	102.0	80.6	121.0
192	18.2	13.2	19.8





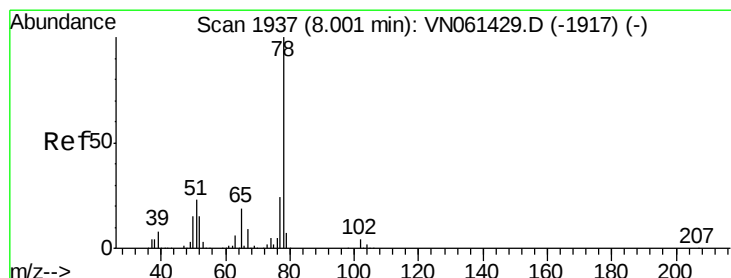
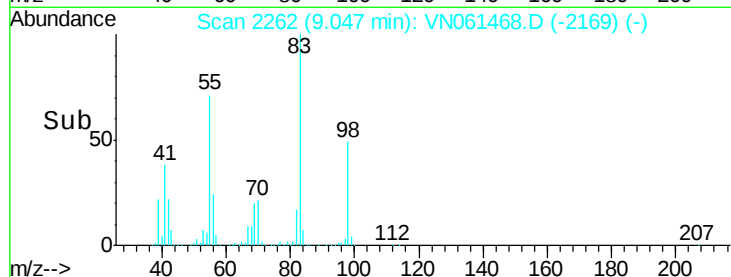
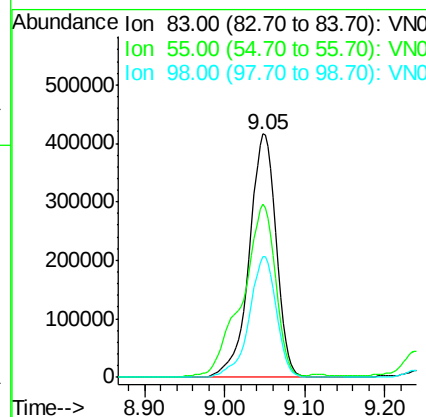
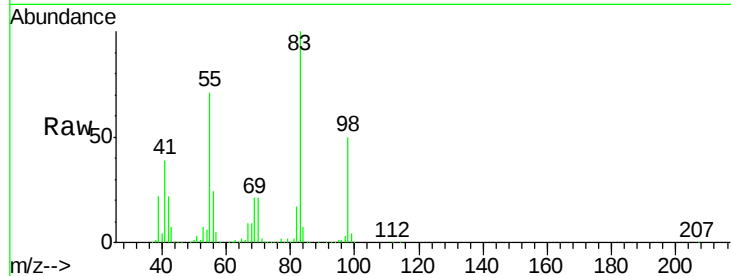
#39
Methvlcvclohexane
Concen: 128.332 ug/l
RT: 9.05 min Scan# 2262
Delta R.T. 0.00 min
Lab File: VN061468.D
Acq: 19 May 2020 8:29

Instrument :
MSVOA_N
ClientSampled :
DUP-051320

Tot Ion	Ratio	Resp	Lower	Upper
83	100	945084		
55	70.5	59.7	89.5	
98	49.6	38.9	58.3	

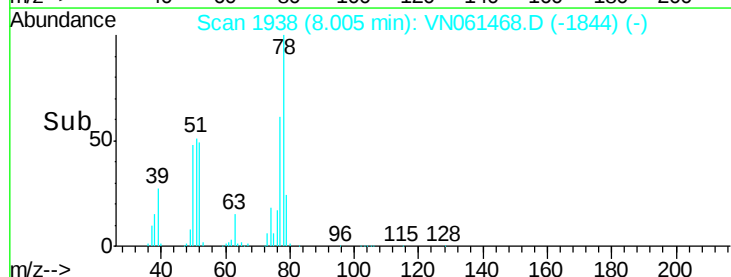
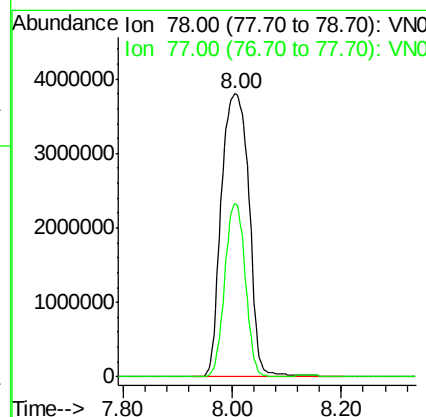
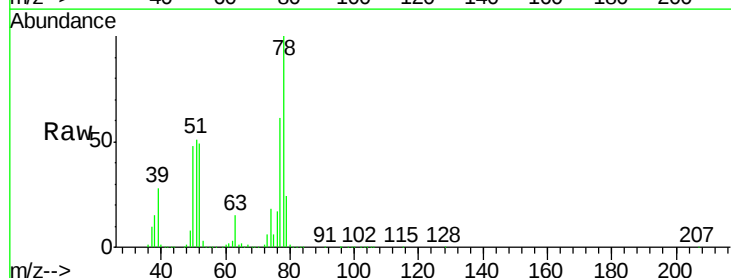
Manual Integrations
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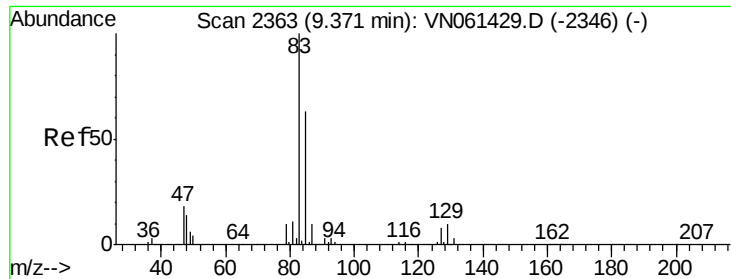
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#40
Benzene
Concen: 734.846 ug/l
RT: 8.00 min Scan# 1938
Delta R.T. 0.00 min
Lab File: VN061468.D
Acq: 19 May 2020 8:29

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	13352478		
77	61.2	19.1	28.7	#





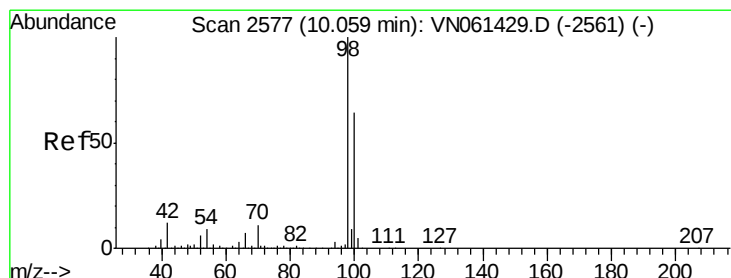
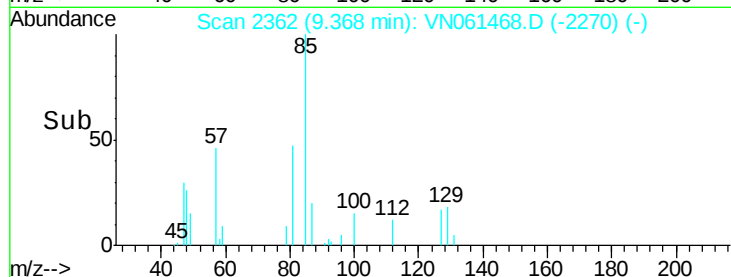
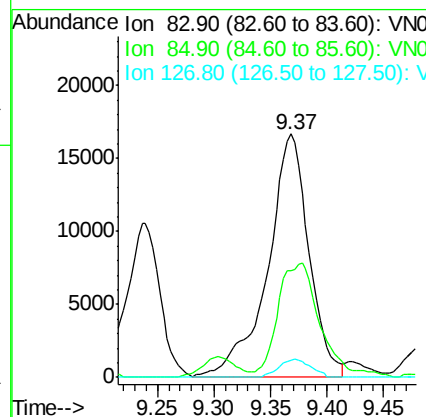
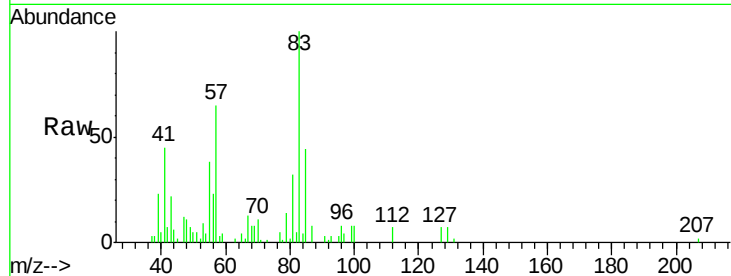
#47
Bromodichloromethane
Concen: 6.276 ug/l
RT: 9.37 min Scan# 2362
Delta R.T. -0.00 min
Lab File: VN061468.D
Acq: 19 May 2020 8:29

Instrument :
MSVOA_N
ClientSampleId :
DUP-051320

Tot Ion	83	Resp	42159
Ion Ratio	100	Lower	Upper
83	100		
85	41.6	50.6	76.0#
127	7.3	6.1	9.1

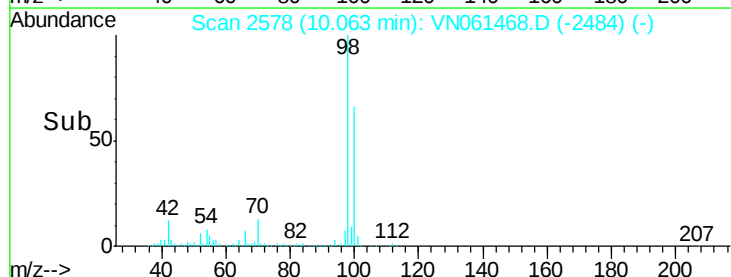
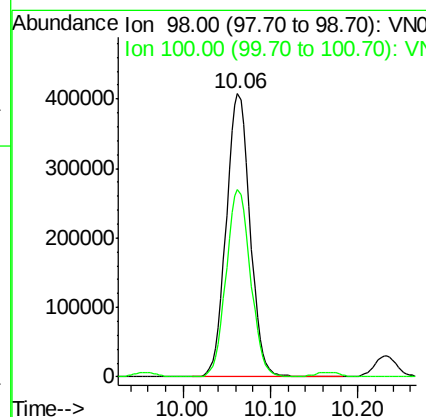
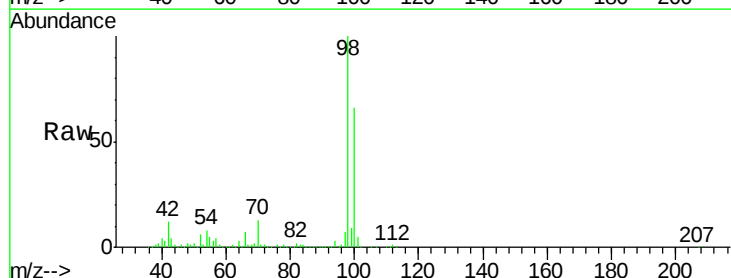
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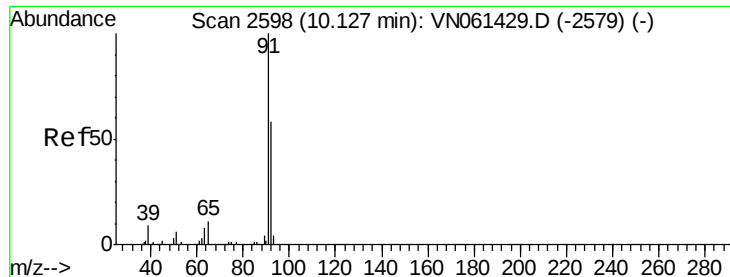
MMDadoda
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#50
Toluene-d8
Concen: 49.065 ug/l
RT: 10.06 min Scan# 2578
Delta R.T. 0.00 min
Lab File: VN061468.D
Acq: 19 May 2020 8:29

Tgt Ion	98	Resp	768769
Ion Ratio	100	Lower	Upper
98	100		
100	67.9	51.8	77.8





#52

Toluene

Concen: 1169.320 ug/l

RT: 10.13 min Scan# 2600

Delta R.T. 0.01 min

Lab File: VN061468.D

Acq: 19 May 2020 8:29

Instrument :

MSVOA_N

ClientSampleId :

DUP-051320

Tot Ion: 92 Resp:13640763

Ion Ratio Lower Upper

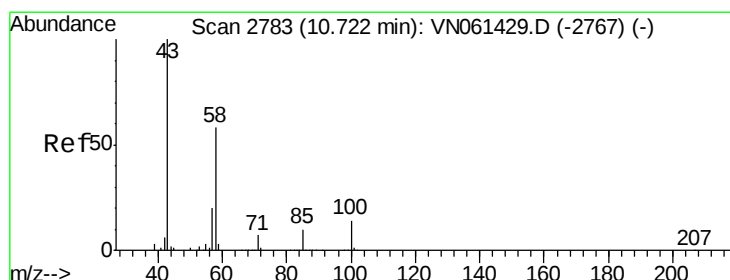
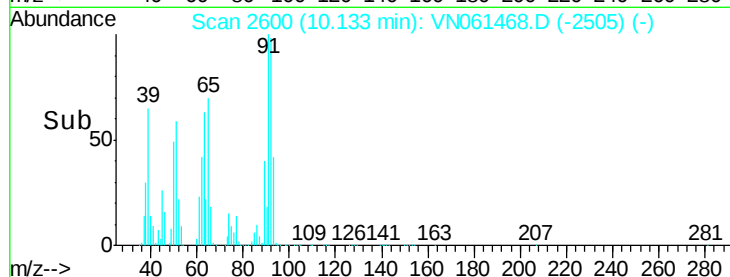
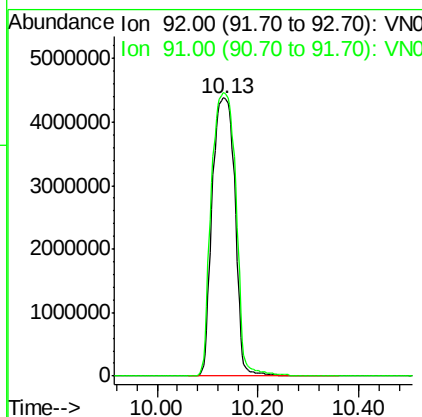
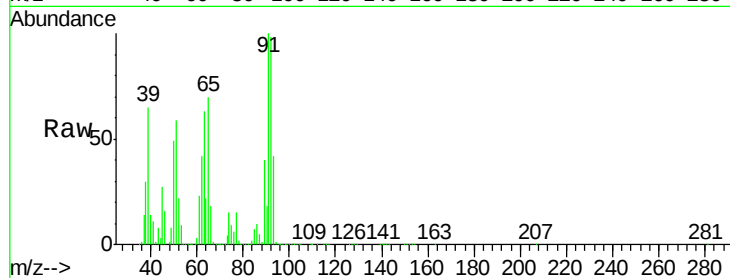
92 100

91 110.4 138.0 207.0#

Manual Integrations
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#59

2-Hexanone

Concen: 49.043 ug/l

RT: 10.72 min Scan# 2784

Delta R.T. 0.00 min

Lab File: VN061468.D

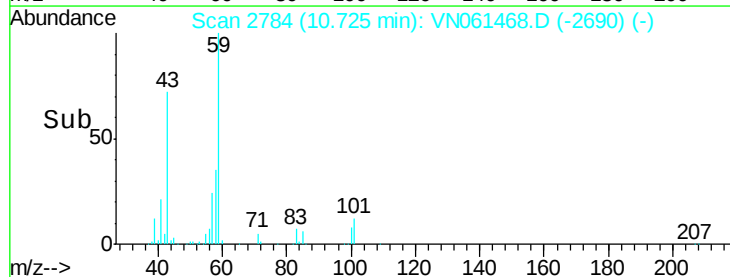
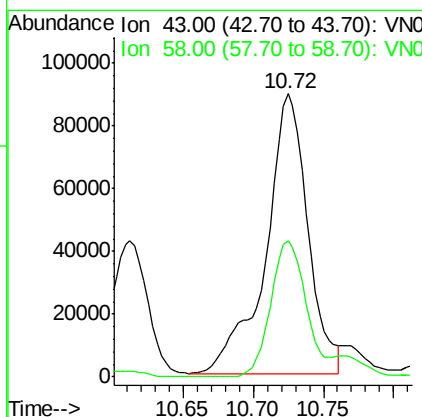
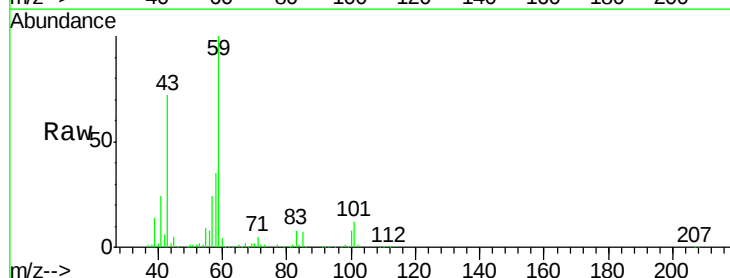
Acq: 19 May 2020 8:29

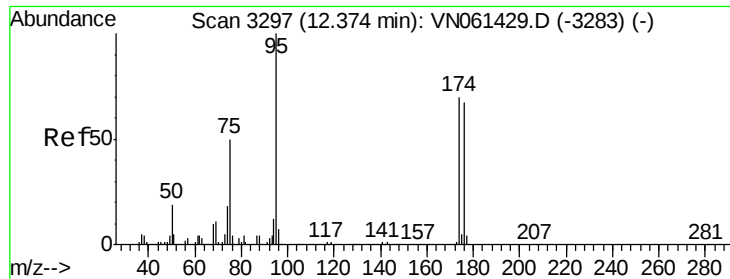
Tgt Ion: 43 Resp: 184339

Ion Ratio Lower Upper

43 100

58 41.0 29.2 87.6





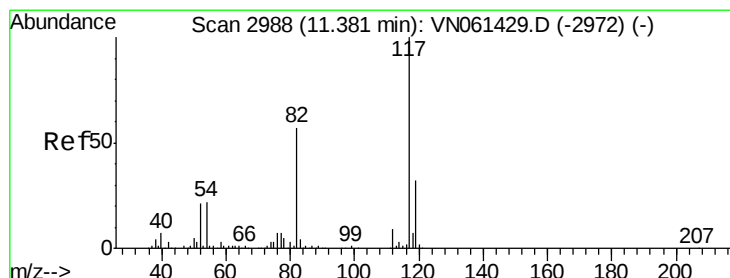
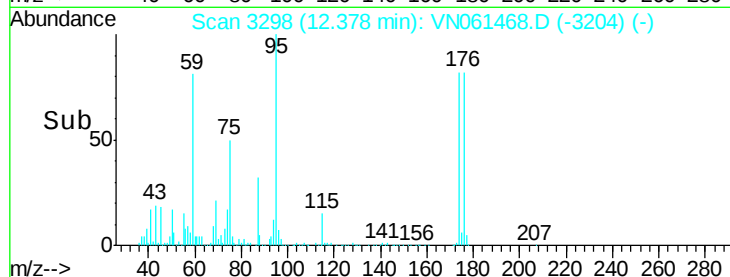
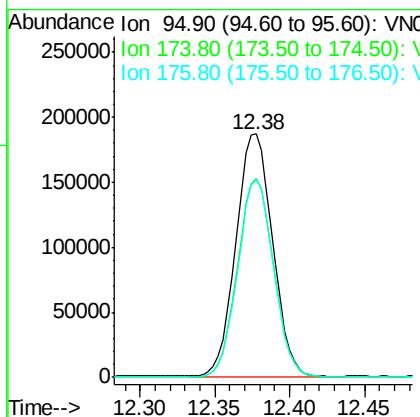
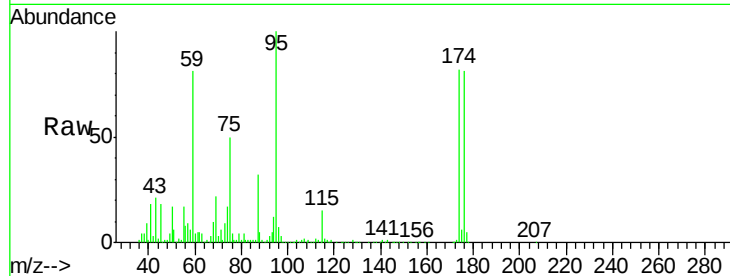
#62
4-Bromofluorobenzene
Concen: 54.347 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.00 min
Lab File: VN061468.D
Acq: 19 May 2020 8:29

Instrument :
MSVOA_N
ClientSampleId :
DUP-051320

Tot Ion	Ratio	Resp	Lower	Upper
95	100	318138		
174	81.3	0.0	141.2	
176	79.9	0.0	137.6	

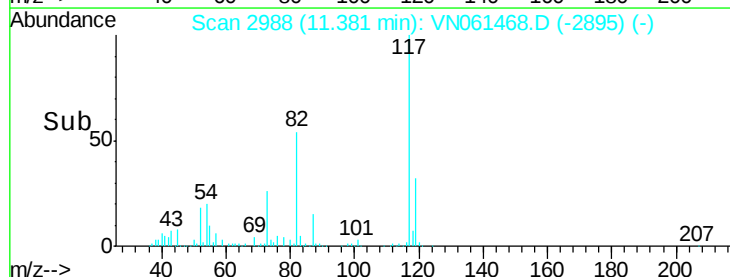
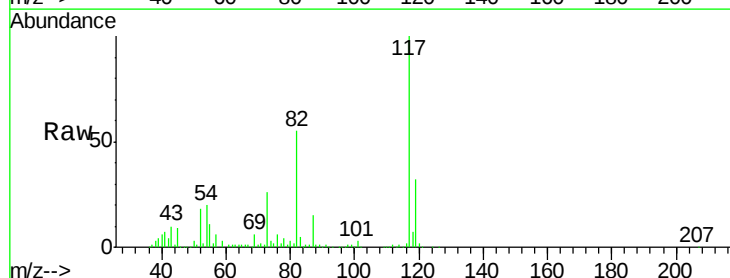
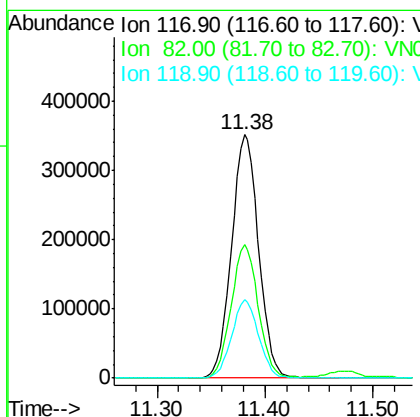
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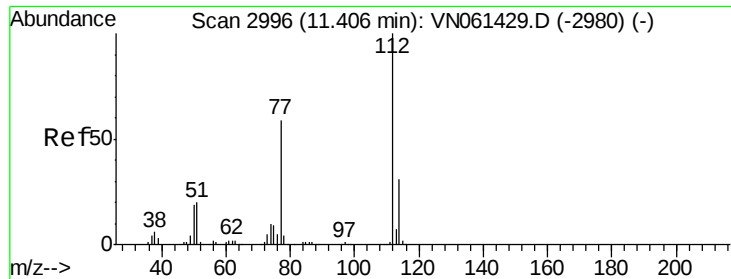
MMDadoda
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#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN061468.D
Acq: 19 May 2020 8:29

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	613525		
82	54.6	45.2	67.8	
119	32.1	25.3	37.9	





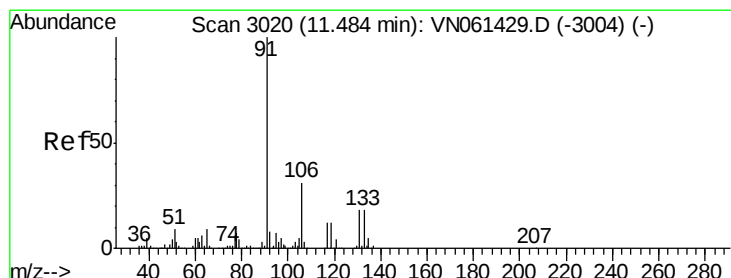
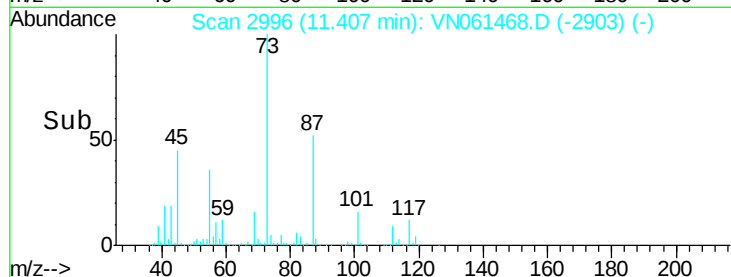
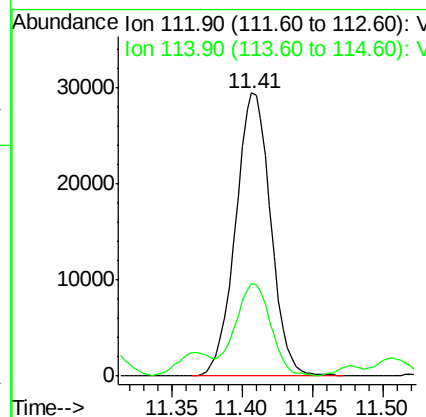
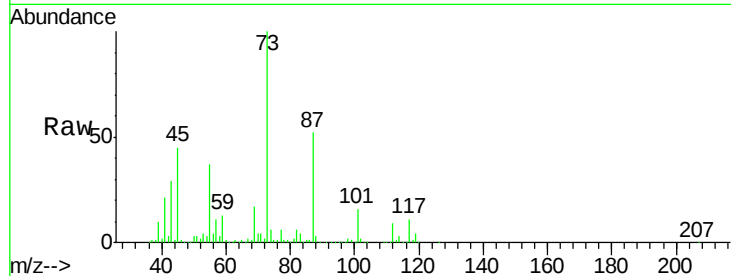
#65
Chlorobenzene
Concen: 4.118 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN061468.D
Acq: 19 May 2020 8:29

Instrument :
MSVOA_N
ClientSampleId :
DUP-051320

Tot Ion	Ratio	Lower	Upper
112	100		
114	29.9	25.0	37.6

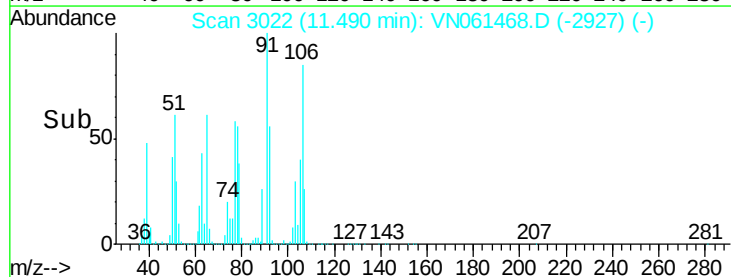
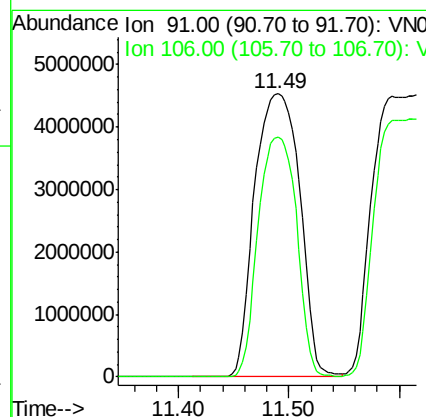
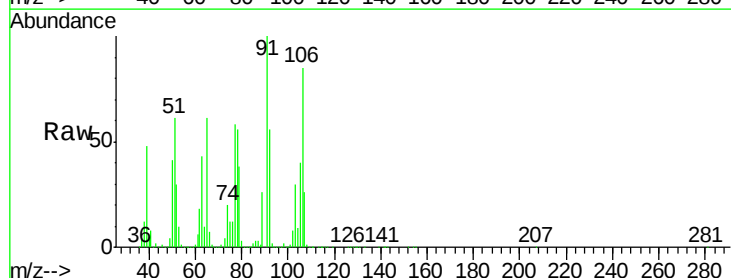
Manual Integrations
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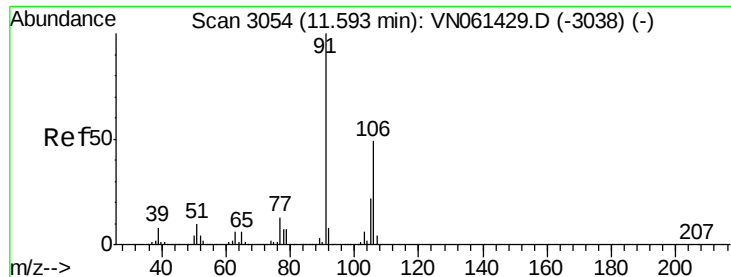
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#67
Ethyl Benzene
Concen: 565.944 ug/l
RT: 11.49 min Scan# 3022
Delta R.T. 0.01 min
Lab File: VN061468.D
Acq: 19 May 2020 8:29

Tgt Ion	Ratio	Lower	Upper
91	100		
106	84.7	24.6	36.8#





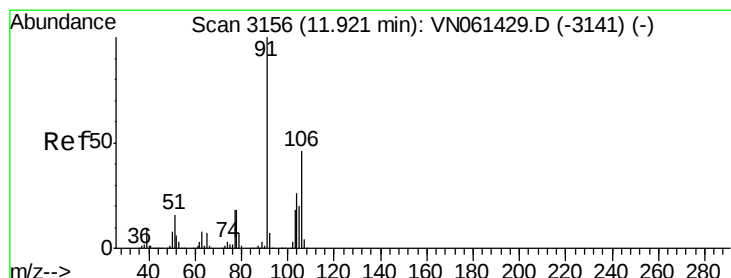
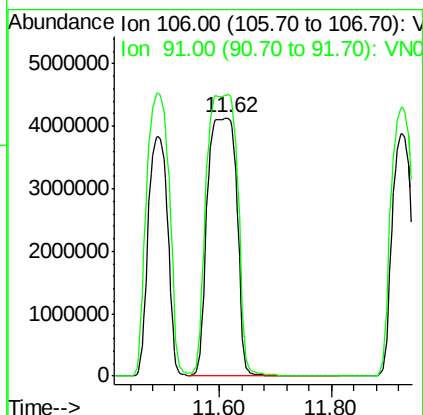
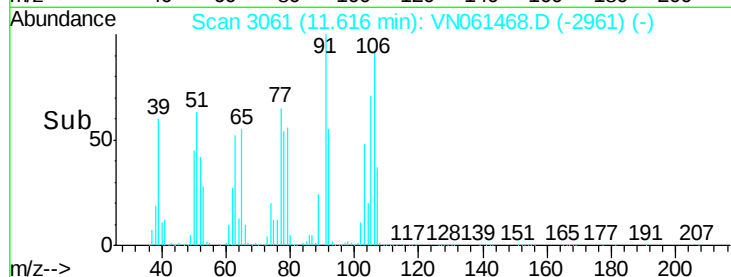
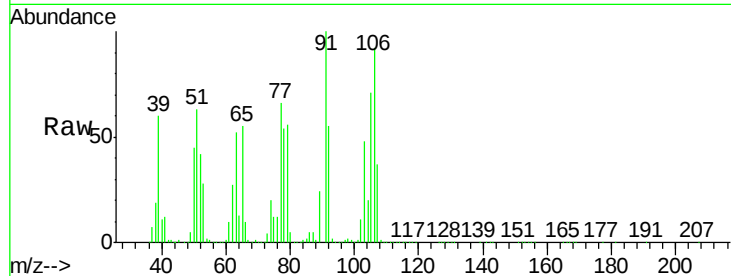
#68
m/p-Xylenes
Concen: 1725.444 ug/l
RT: 11.62 min Scan# 3061
Delta R.T. 0.02 min
Lab File: VN061468.D
Acq: 19 May 2020 8:29

Instrument :
MSVOA_N
ClientSampled :
DUP-051320

Tot Ion:106 Resp:14957186
Ion Ratio Lower Upper
106 100
91 0.0 163.0 244.6#

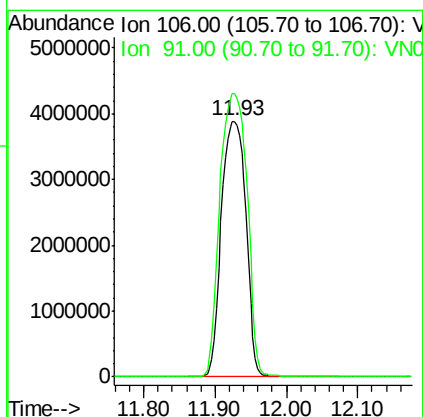
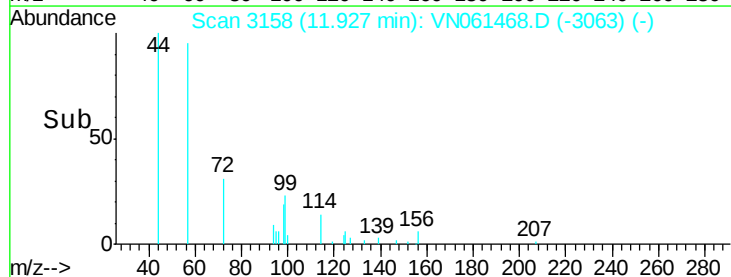
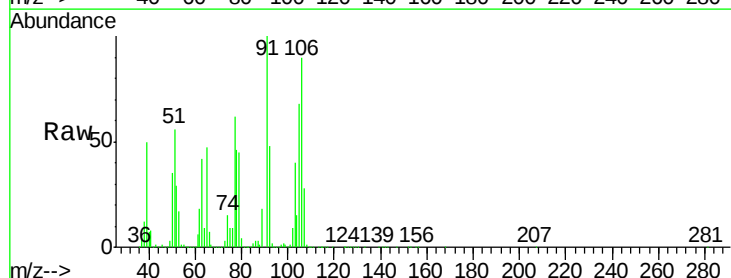
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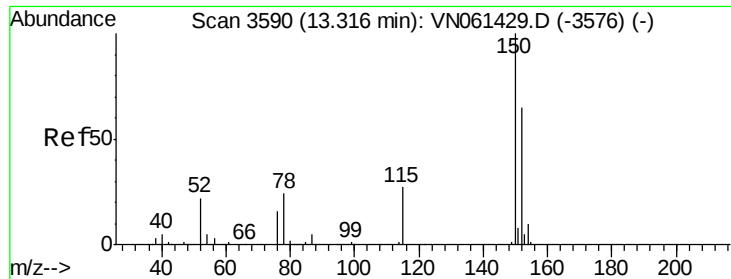
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#69
o-Xylene
Concen: 1104.853 ug/l
RT: 11.93 min Scan# 3158
Delta R.T. 0.01 min
Lab File: VN061468.D
Acq: 19 May 2020 8:29

Tgt Ion:106 Resp: 9268330
Ion Ratio Lower Upper
106 100
91 123.9 107.9 323.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN061468.D

Acq: 19 May 2020 8:29

Instrument :

MSVOA_N

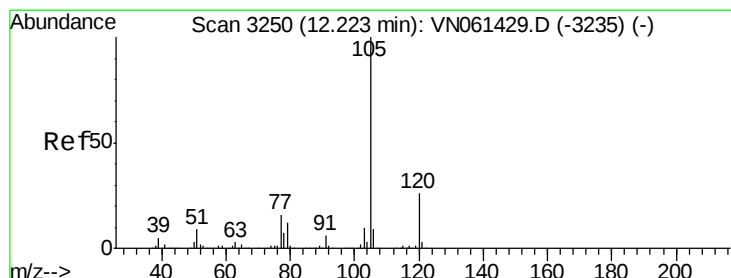
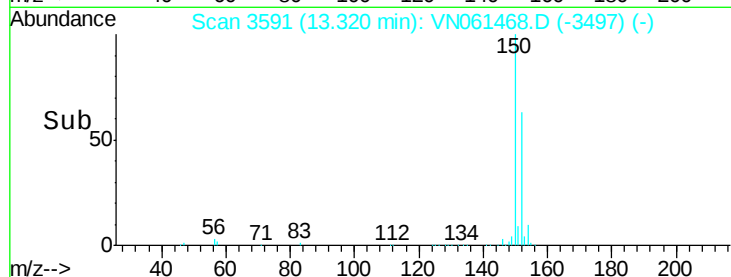
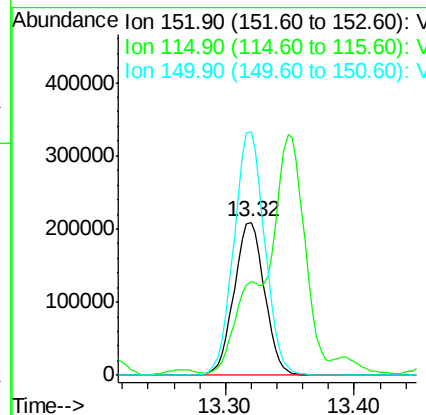
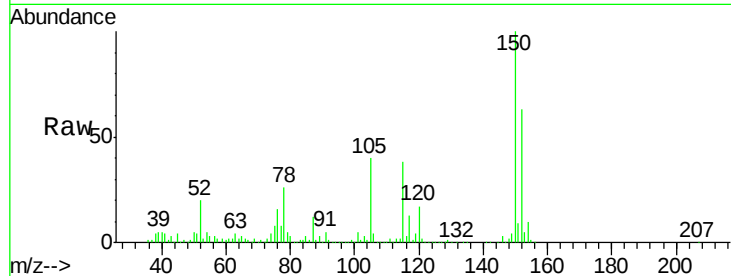
ClientSampleId :

DUP-051320

Tot Ion:	152	Resp:	343022
Ion Ratio	Lower	Upper	
152	100		
115	48.5	30.9	92.5
150	161.6	0.0	349.2

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#73

Isopropylbenzene

Concen: 103.008 ug/l

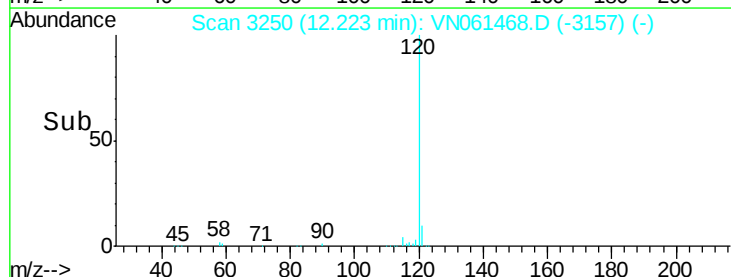
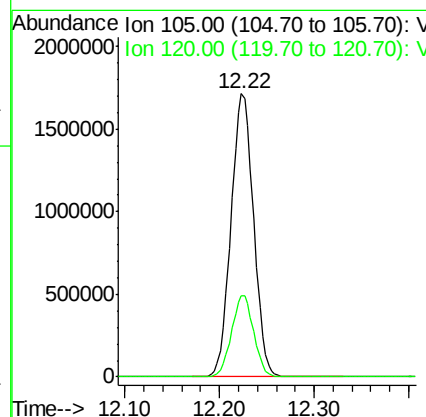
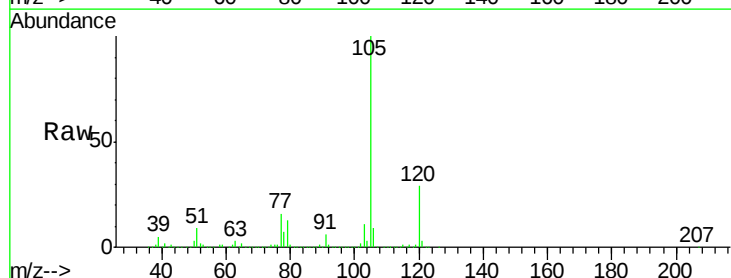
RT: 12.22 min Scan# 3250

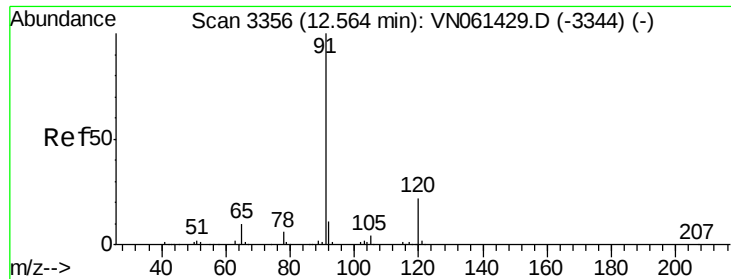
Delta R.T. 0.00 min

Lab File: VN061468.D

Acq: 19 May 2020 8:29

Tgt Ion:	105	Resp:	2836582
Ion Ratio	Lower	Upper	
105	100		
120	28.2	13.0	39.0





#78

n-propylbenzene

Concen: 207.248 ug/l

RT: 12.57 min Scan# 3357

Delta R.T. 0.00 min

Lab File: VN061468.D

Acq: 19 May 2020 8:29

Instrument :

MSVOA_N

ClientSampleId :

DUP-051320

Tot Ion: 91 Resp: 6502666

Ion Ratio Lower Upper

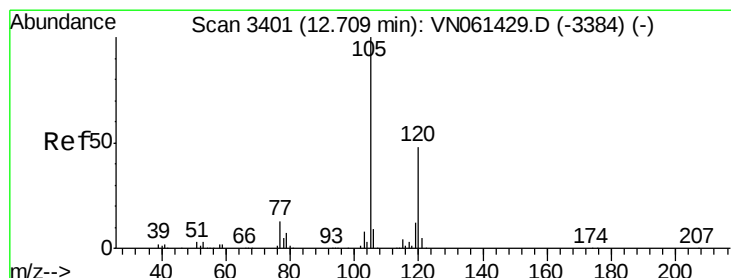
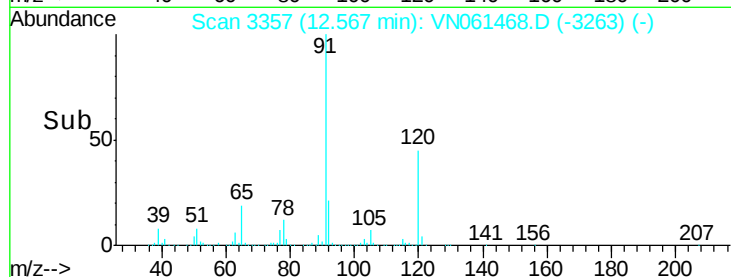
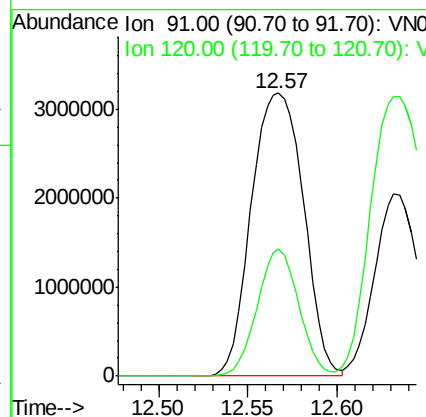
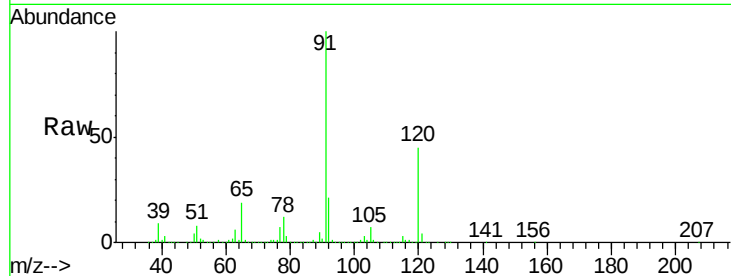
91 100

120 35.9 11.2 33.6#

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#80

1,3,5-Trimethylbenzene

Concen: 290.685 ug/l m

RT: 12.71 min Scan# 3401

Delta R.T. 0.00 min

Lab File: VN061468.D

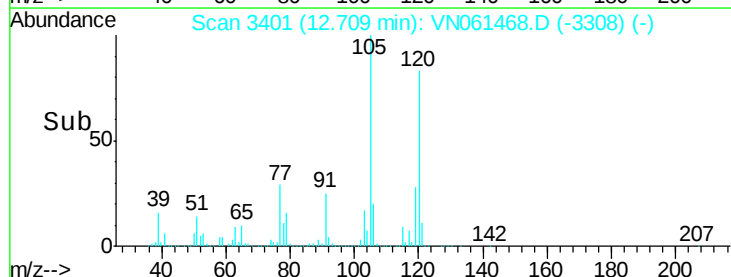
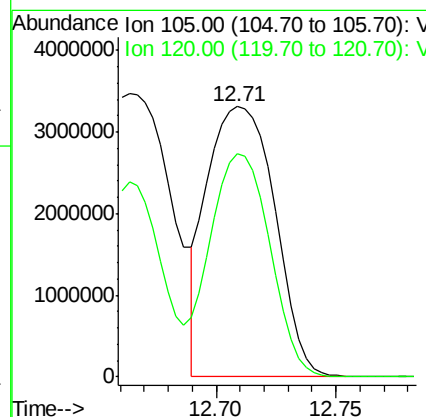
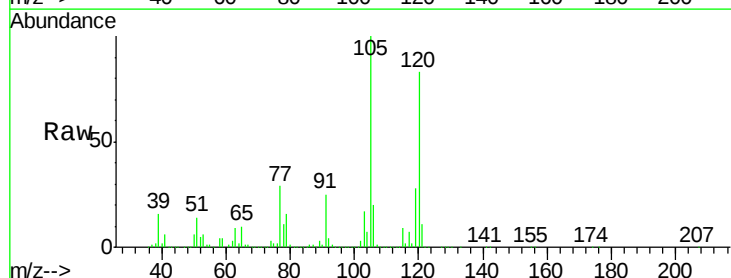
Acq: 19 May 2020 8:29

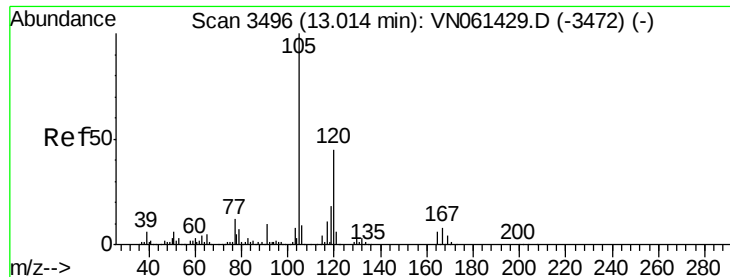
Tgt Ion: 105 Resp: 6554268

Ion Ratio Lower Upper

105 100

120 97.6 24.1 72.4#





#84

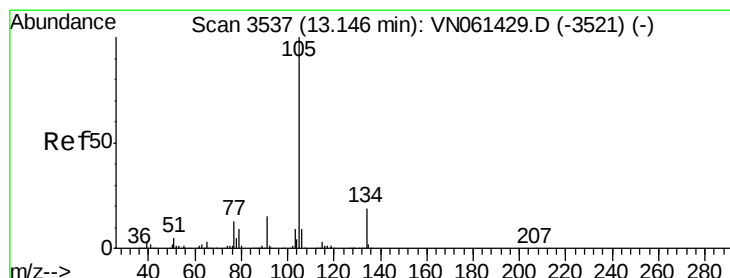
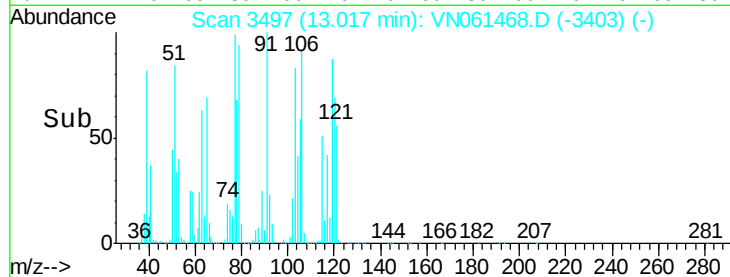
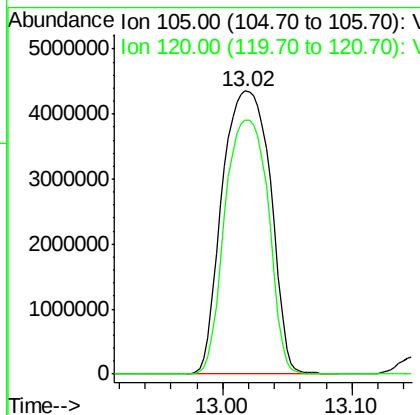
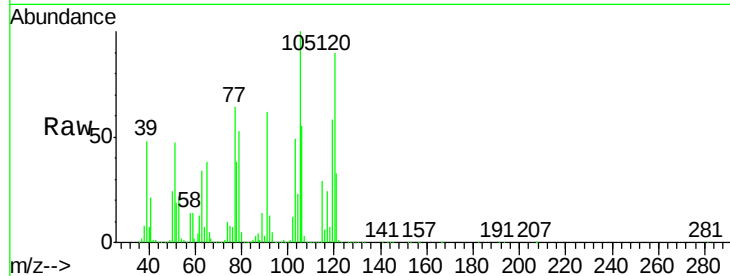
1,2,4-Trimethylbenzene
Concen: 502.101 ug/l m
RT: 13.02 min Scan# 3497
Delta R.T. 0.00 min
Lab File: VN061468.D
Acq: 19 May 2020 8:29

Instrument :
MSVOA_N
ClientSampleId :
DUP-051320

Tot Ion:105 Resp:11330061
Ion Ratio Lower Upper
105 100
120 33.3 22.4 67.3

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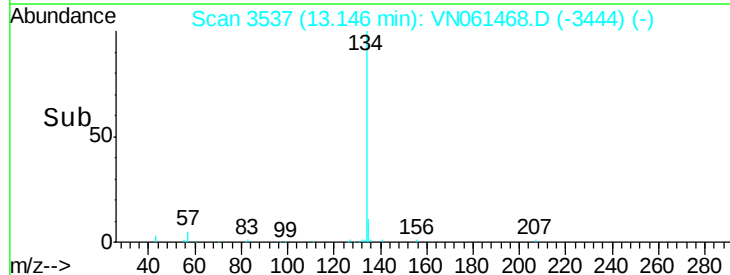
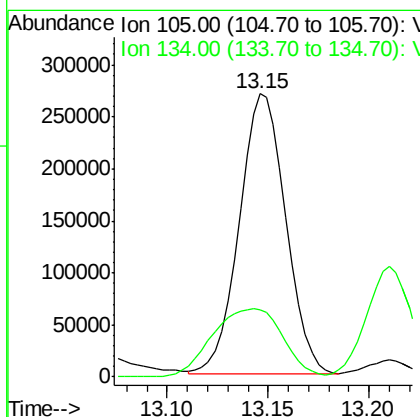
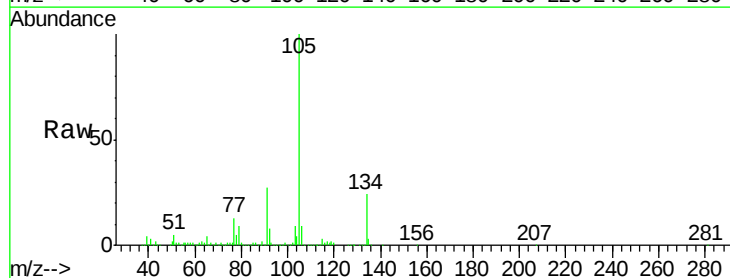
MMDadoda
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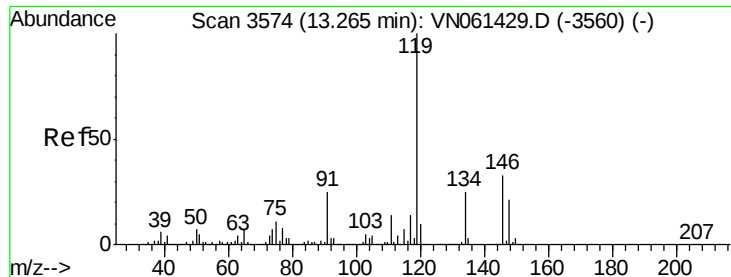


#85

sec-Butylbenzene
Concen: 16.568 ug/l
RT: 13.15 min Scan# 3537
Delta R.T. 0.00 min
Lab File: VN061468.D
Acq: 19 May 2020 8:29

Tgt Ion:105 Resp: 432682
Ion Ratio Lower Upper
105 100
134 36.8 9.8 29.5#





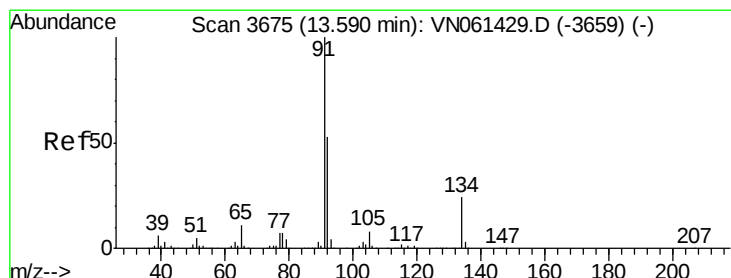
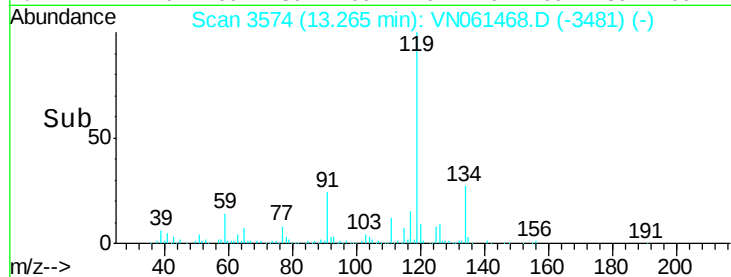
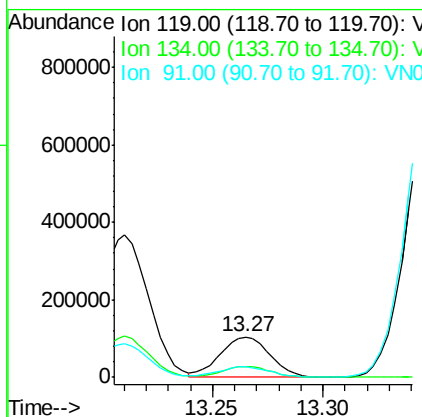
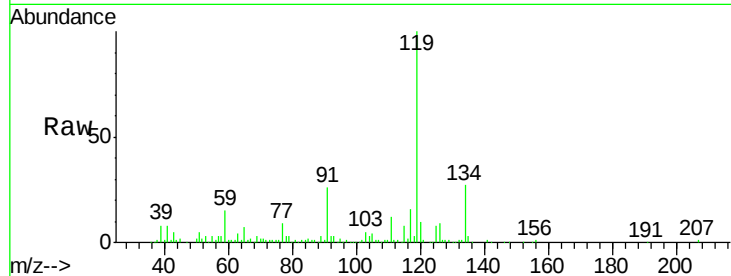
#86
 p-Isopropyltoluene
 Concen: 7.015 ug/l
 RT: 13.27 min Scan# 3574
 Delta R.T. 0.00 min
 Lab File: VN061468.D
 Acq: 19 May 2020 8:29

Instrument :
 MSVOA_N
 ClientSampled :
 DUP-051320

Tot Ion	Ratio	Resp	Lower	Upper
119	100	162685		
134	26.9	12.7	38.1	
91	0.0	12.6	37.6#	

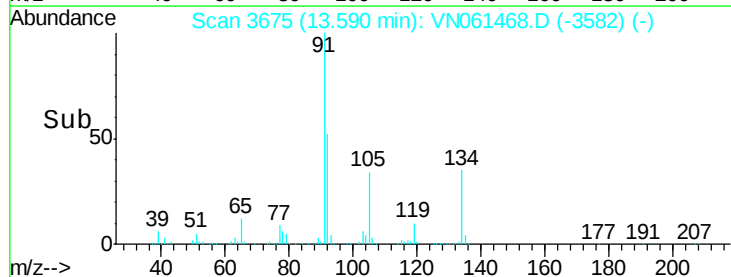
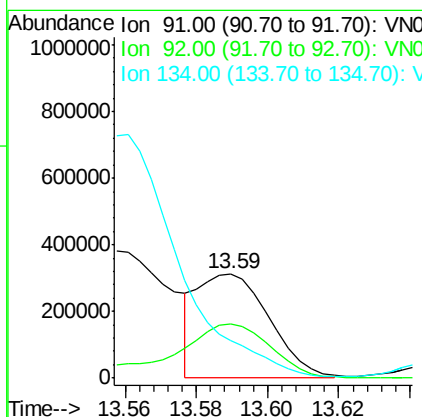
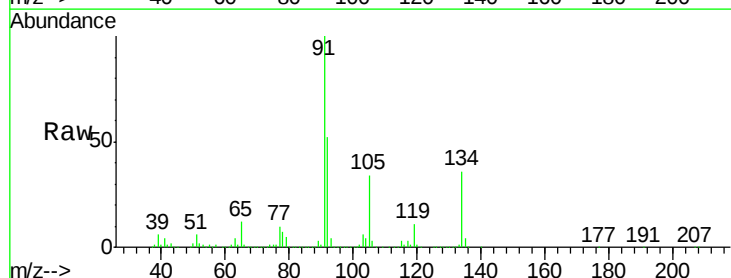
Manual Integrations
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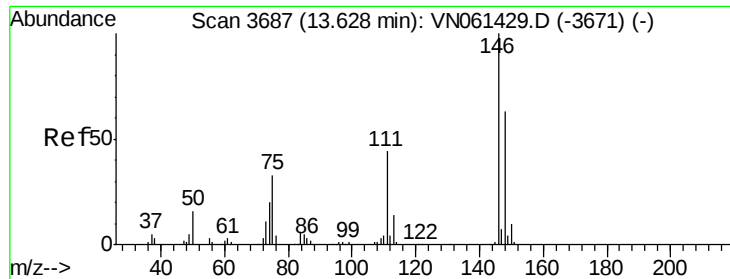
MMDadoda
 5/19/2020 4:24:03 PM



#89
 n-Butylbenzene
 Concen: 20.717 ug/l m
 RT: 13.59 min Scan# 3675
 Delta R.T. 0.00 min
 Lab File: VN061468.D
 Acq: 19 May 2020 8:29

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	436471		
92	0.0	26.8	80.3#	
134	315.8	12.4	37.4#	





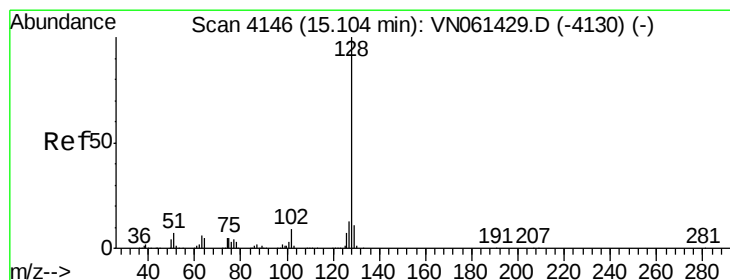
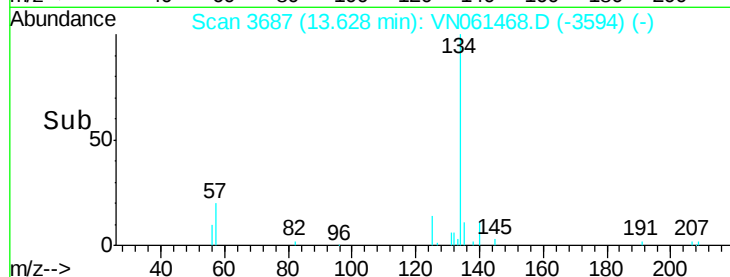
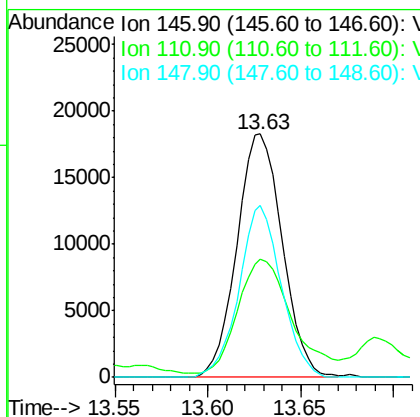
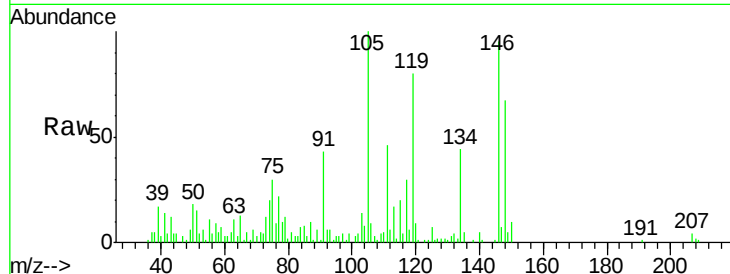
#91
 1,2-Dichlorobenzene
 Concen: 2.962 ug/l
 RT: 13.63 min Scan# 3687
 Delta R.T. 0.00 min
 Lab File: VN061468.D
 Acq: 19 May 2020 8:29

Instrument :
 MSVOA_N
 ClientSampleId :
 DUP-051320

Tot Ion	Ratio	Lower	Upper
146	100		
111	55.4	21.9	65.7
148	65.4	31.6	94.7

Manual Integrations
 APPROVED

MMDadoda
 5/19/2020 4:24:03 PM



#95
 Naphthalene
 Concen: 394.826 ug/l
 RT: 15.10 min Scan# 4146
 Delta R.T. 0.00 min
 Lab File: VN061468.D
 Acq: 19 May 2020 8:29

Tgt Ion	Ratio	Lower	Upper
128	100		
127	18.9	10.1	15.1#
129	16.5	8.6	13.0#

