

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100319\
 Data File : VN058521.D
 Acq On : 3 Oct 2019 19:24
 Operator : JC/SP
 Sample : K5180-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 30474

Manual Integrations
 APPROVED

MMDadoda
 10/4/2019 9:31:26 AM

Quant Time: Oct 04 05:03:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092719W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 30 08:07:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	361895	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	598298	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	516958	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	236913	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	259779	49.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.24%	
35) Dibromofluoromethane	7.57	113	184140	50.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.44%	
50) Toluene-d8	10.08	98	743624	51.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.54%	
62) 4-Bromofluorobenzene	12.41	95	260930	50.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.48%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.76	59	60247	102.546	ug/l	100
16) Acetone	3.79	43	1239617	687.606	ug/l	100
18) Methyl Acetate	4.30	43	26231	5.785	ug/l	98
19) Methyl tert-butyl Ether	5.02	73	276968	22.993	ug/l	96
20) Methylene Chloride	4.53	84	26921	6.471	ug/l	95
22) Diisopropyl ether	5.93	45	82976	6.206	ug/l	93
25) 2-Butanone	6.81	43	516185	208.544	ug/l	97
29) Tetrahydrofuran	7.20	42	5922	3.770	ug/l #	84
39) Methylcyclohexane	9.07	83	20879	3.125	ug/l	98
40) Benzene	8.03	78	421955	25.659	ug/l	99
52) Toluene	10.15	92	2701720	261.019	ug/l	83
59) 2-Hexanone	10.75	43	32568	9.547	ug/l	85
64) Tetrachloroethene	10.63	164	5429	1.653	ug/l	91
67) Ethyl Benzene	11.51	91	1021521	54.883	ug/l	99
68) m/p-Xylenes	11.62	106	1553623	221.856	ug/l	95
69) o-Xylene	11.95	106	997144	147.917	ug/l	100
73) Isopropylbenzene	12.25	105	71460	4.081	ug/l	100
78) n-propylbenzene	12.60	91	283468	14.371	ug/l	99
80) 1,3,5-Trimethylbenzene	12.74	105	568978	38.821	ug/l	99
84) 1,2,4-Trimethylbenzene	13.05	105	2635855	179.502	ug/l	95
85) sec-Butylbenzene	13.18	105	16533m	1.016	ug/l	
86) p-Isopropyltoluene	13.30	119	10839	0.756	ug/l #	74
89) n-Butylbenzene	13.62	91	29188m	2.249	ug/l	
95) Naphthalene	15.13	128	1311120	113.310	ug/l	99

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

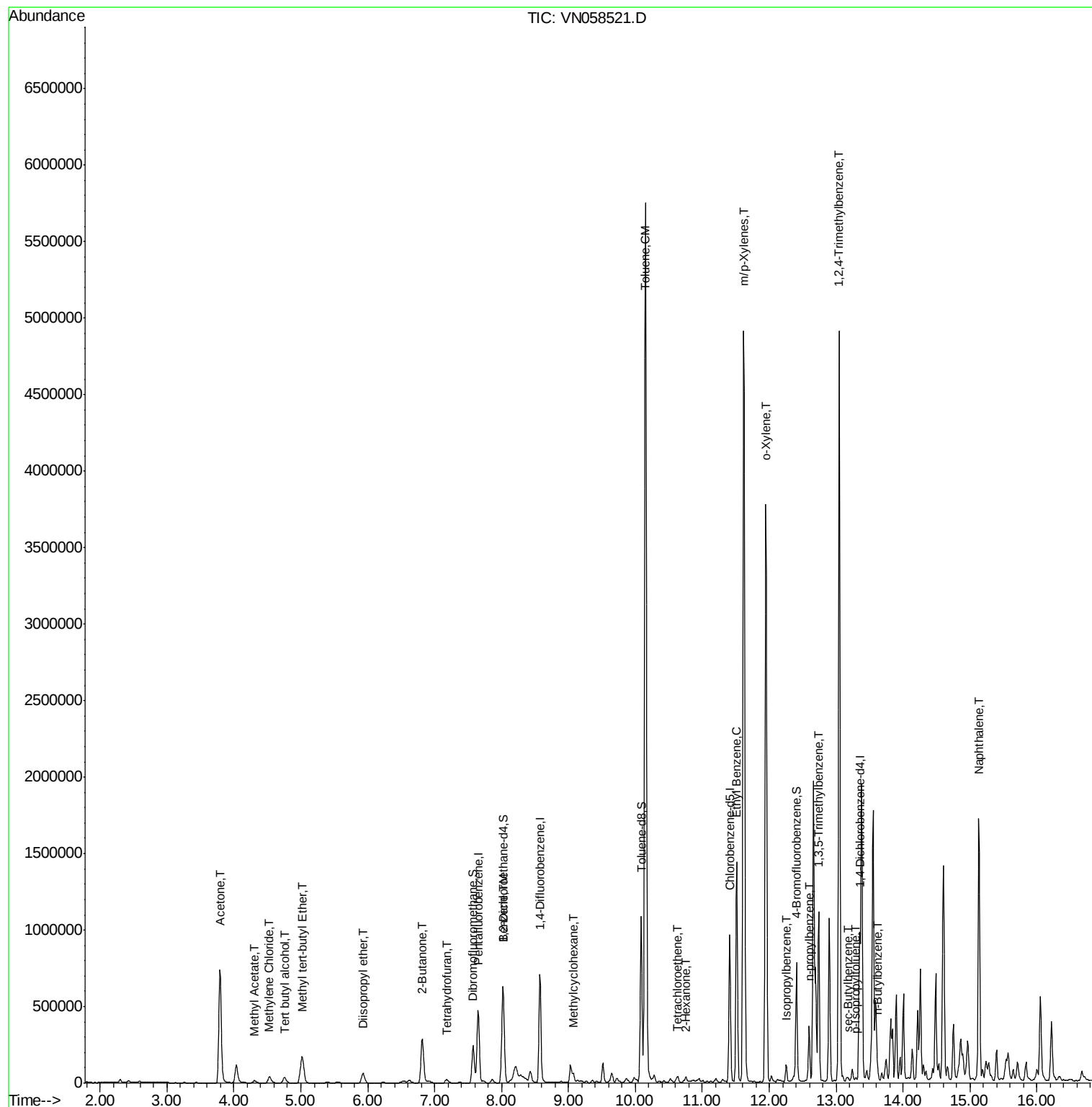
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN100319\
Data File : VN058521.D
Acq On : 3 Oct 2019 19:24
Operator : JC/SP
Sample : K5180-01
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 21 Sample Multiplier: 1

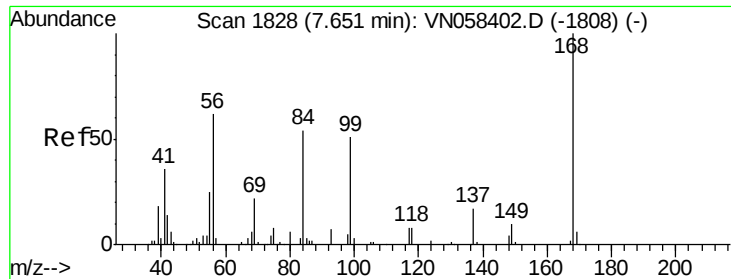
Instrument :
MSVOA_N
ClientSampleId :
30474

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Quant Time: Oct 04 05:03:36 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N092719W.M
Quant Title : SW846 8260
QLast Update : Mon Sep 30 08:07:38 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VN058521.D

Acq: 3 Oct 2019 19:24

Instrument :

MSVOA_N

ClientSampleId :

30474

Tot Ion:168 Resp: 361895

Ion Ratio Lower Upper

168 100

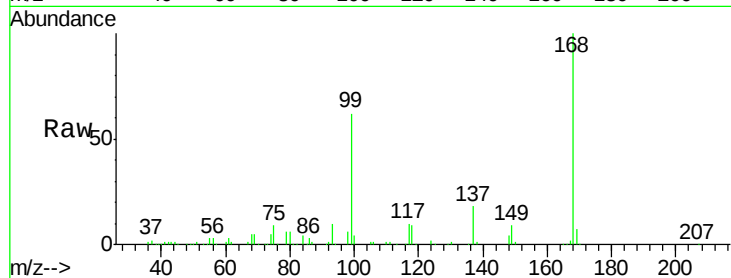
99 61.6 47.7 71.5

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

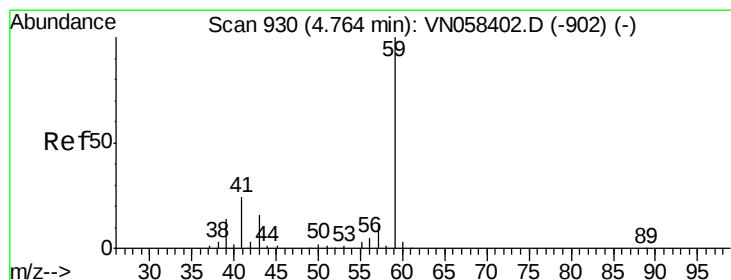
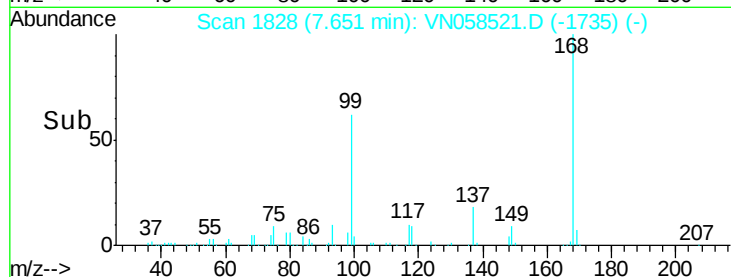
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 102.546 ug/l

RT: 4.76 min Scan# 928

Delta R.T. -0.01 min

Lab File: VN058521.D

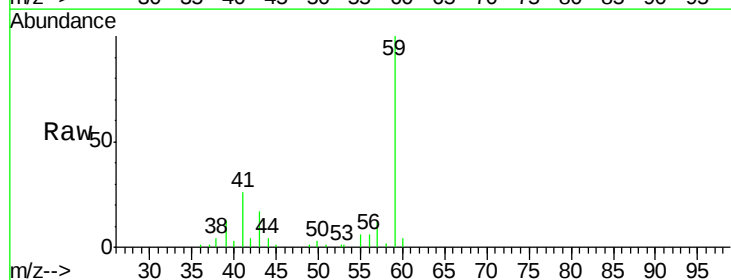
Acq: 3 Oct 2019 19:24

Tgt Ion: 59 Resp: 60247

Ion Ratio Lower Upper

59 100

57 11.2 9.0 13.4



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.76

20000

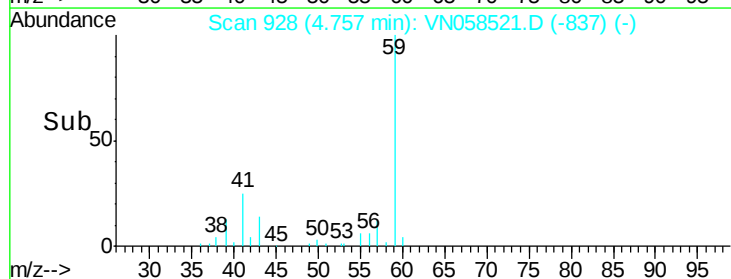
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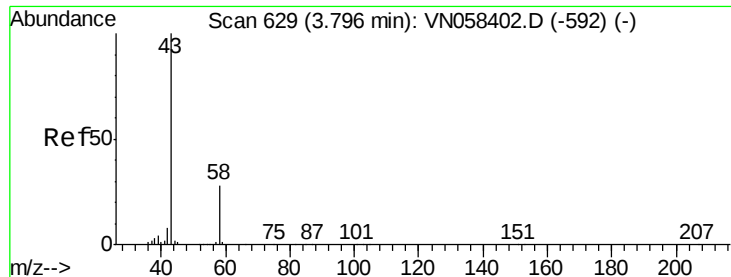
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5000

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Time-->





#16

Acetone

Concen: 687.606 ug/l

RT: 3.79 min Scan# 628

Delta R.T. -0.00 min

Lab File: VN058521.D

Acq: 3 Oct 2019 19:24

Instrument :

MSVOA_N

ClientSampled :

30474

Tot Ion: 43 Resp: 1239617

Ion Ratio Lower Upper

43 100

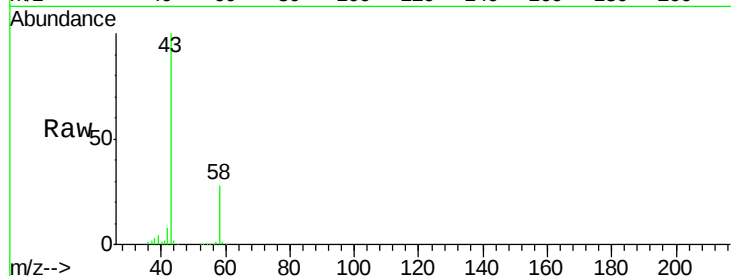
58 28.1 22.4 33.6

Manual Integrations

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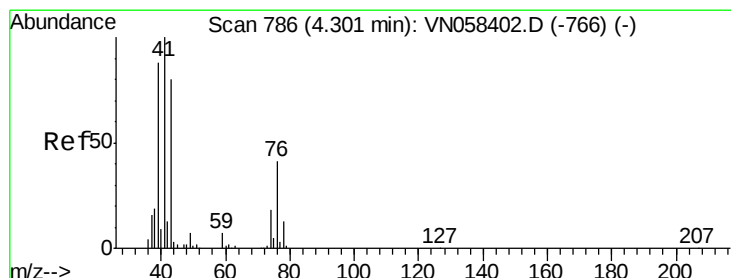
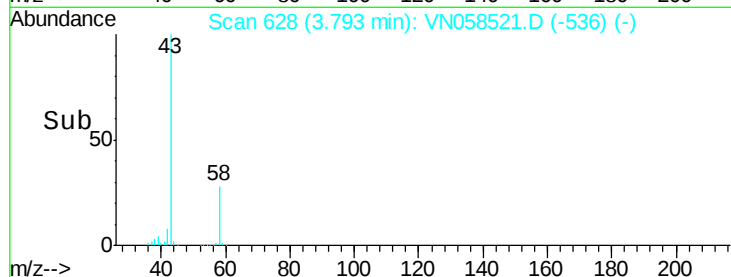
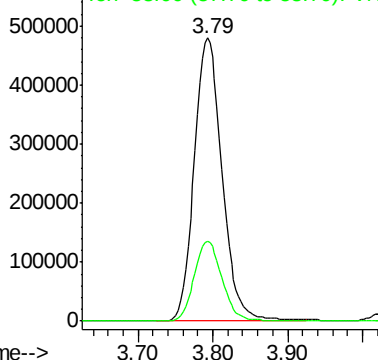
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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 5.785 ug/l

RT: 4.30 min Scan# 787

Delta R.T. 0.00 min

Lab File: VN058521.D

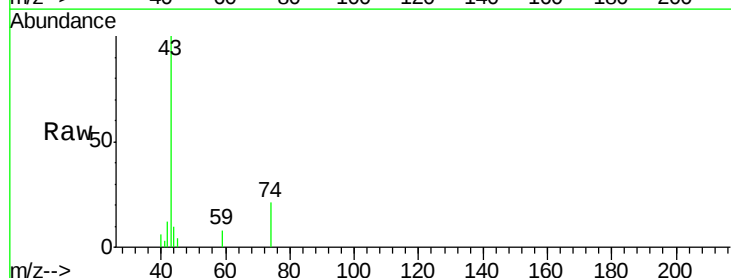
Acq: 3 Oct 2019 19:24

Tgt Ion: 43 Resp: 26231

Ion Ratio Lower Upper

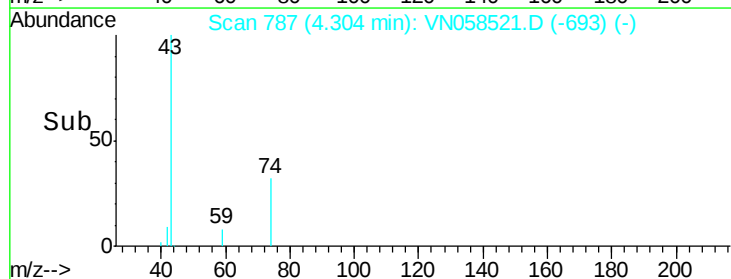
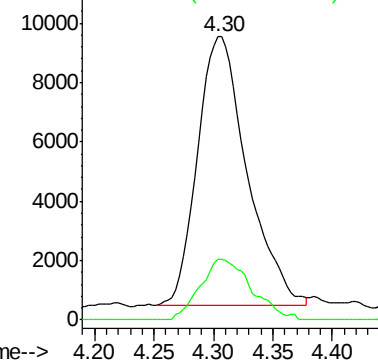
43 100

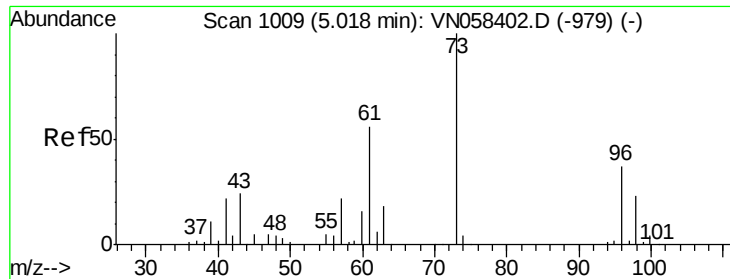
74 23.3 18.0 27.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





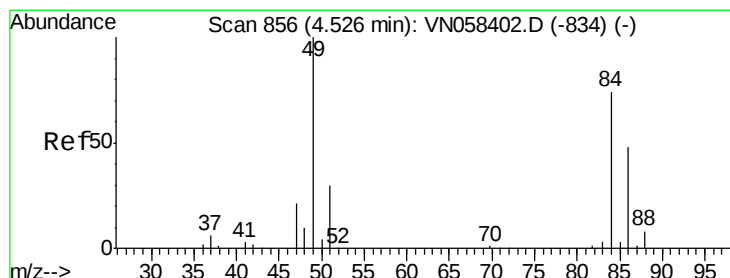
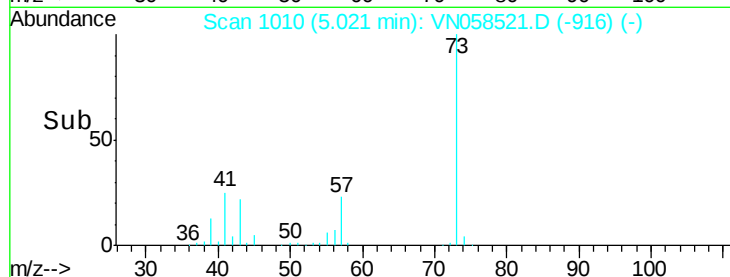
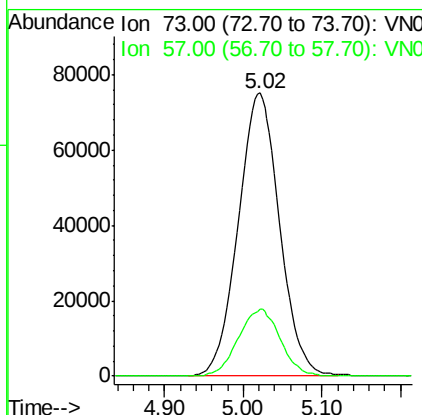
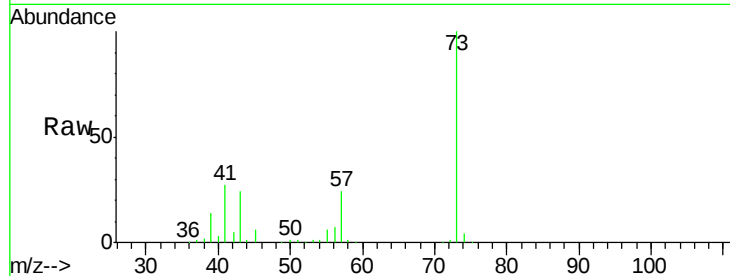
#19
Methvl tert-butvl Ether
Concen: 22.993 ug/l
RT: 5.02 min Scan# 1010
Delta R.T. 0.00 min
Lab File: VN058521.D
Acq: 3 Oct 2019 19:24

Instrument :
MSVOA_N
ClientSampled :
30474

Tot Ion: 73 Resp: 276968
Ion Ratio Lower Upper
73 100
57 23.8 17.6 26.4

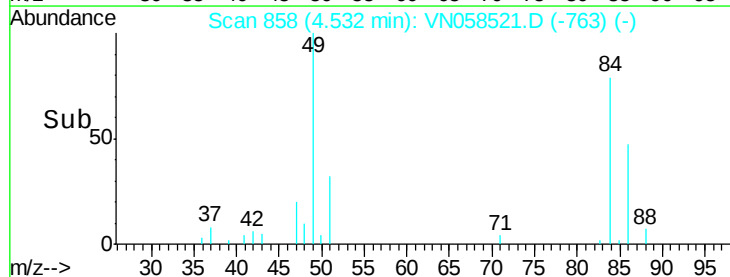
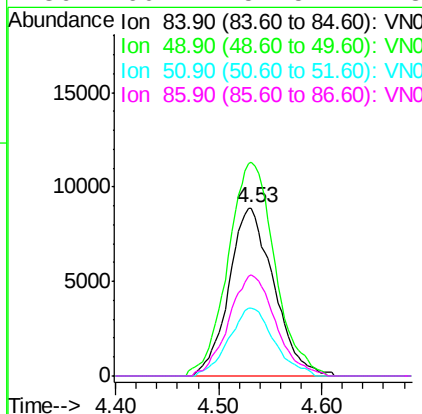
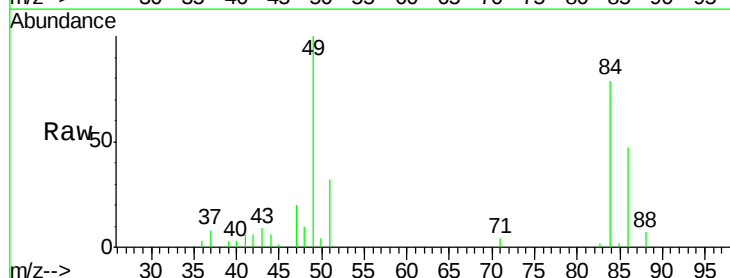
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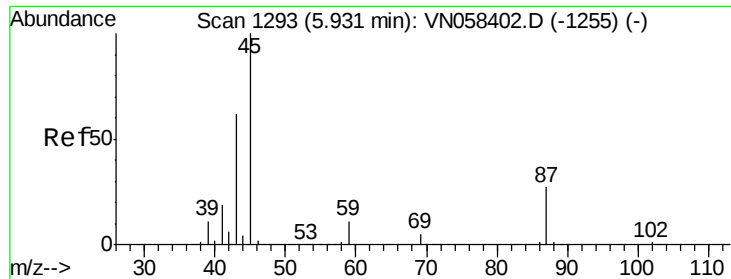
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#20
Methylene Chloride
Concen: 6.471 ug/l
RT: 4.53 min Scan# 858
Delta R.T. 0.01 min
Lab File: VN058521.D
Acq: 3 Oct 2019 19:24

Tgt Ion: 84 Resp: 26921
Ion Ratio Lower Upper
84 100
49 126.9 107.9 161.9
51 40.4 32.8 49.2
86 60.1 51.5 77.3





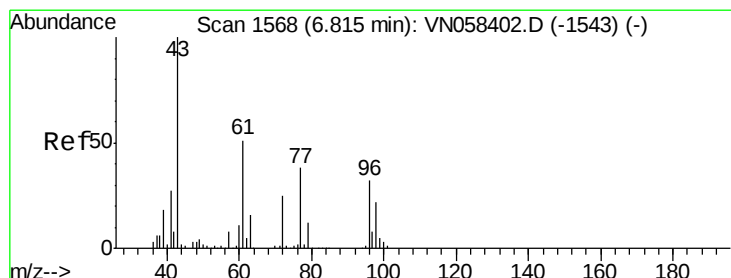
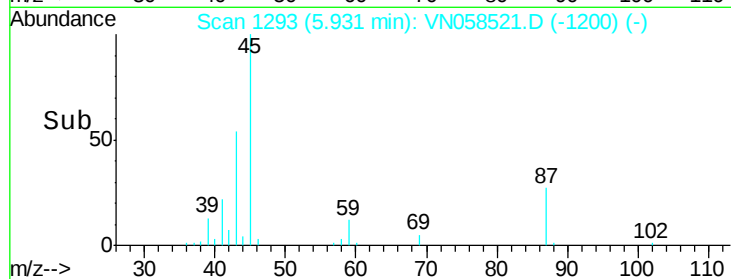
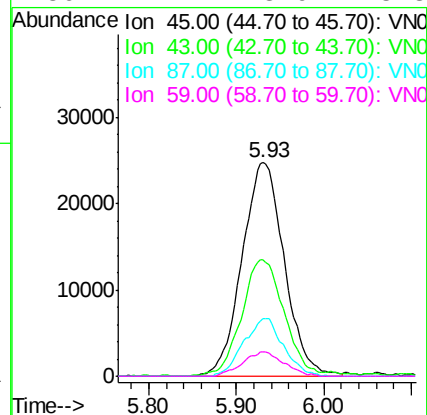
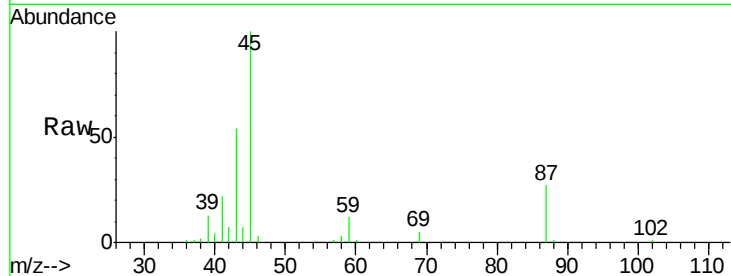
#22
Diisopropyl ether
Concen: 6.206 ug/l
RT: 5.93 min Scan# 1293
Delta R.T. -0.00 min
Lab File: VN058521.D
Acq: 3 Oct 2019 19:24

Instrument :
MSVOA_N
ClientSampleId :
30474

Tot Ion	45	Resp	82976
Ion Ratio	100	Lower	Upper
45	100		
43	53.8	49.7	74.5
87	26.8	21.5	32.3
59	11.7	8.9	13.3

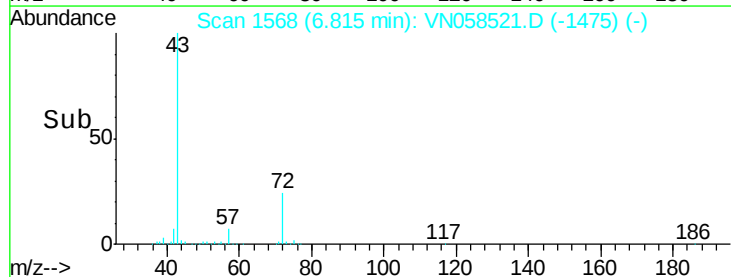
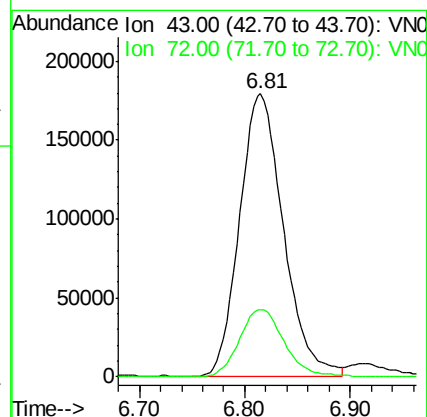
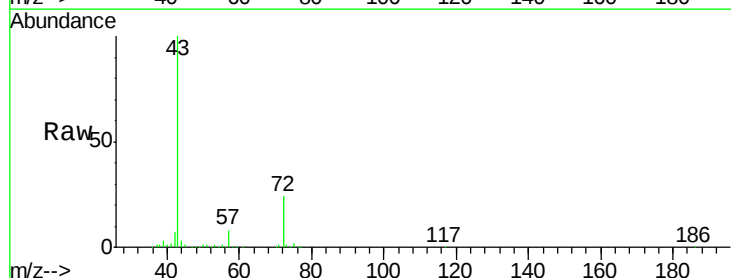
Manual Integrations
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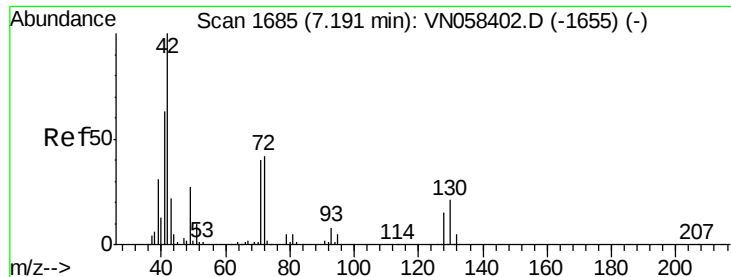
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#25
2-Butanone
Concen: 208.544 ug/l
RT: 6.81 min Scan# 1568
Delta R.T. -0.00 min
Lab File: VN058521.D
Acq: 3 Oct 2019 19:24

Tgt Ion	43	Resp	516185
Ion Ratio	100	Lower	Upper
43	100		
72	23.9	20.2	30.4





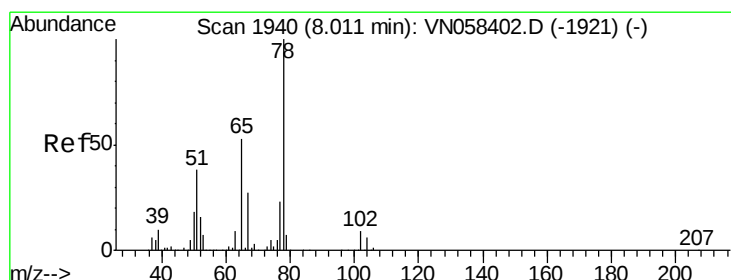
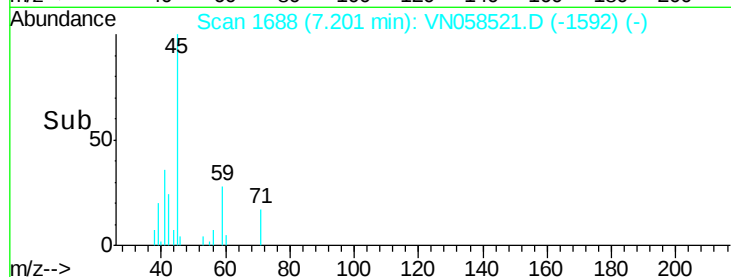
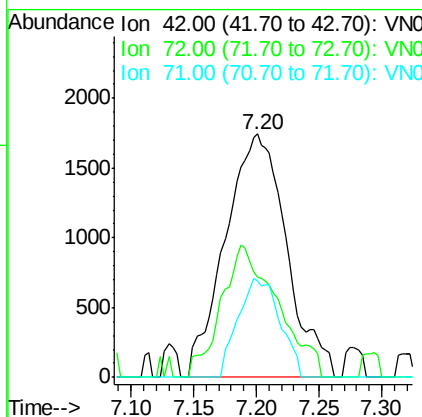
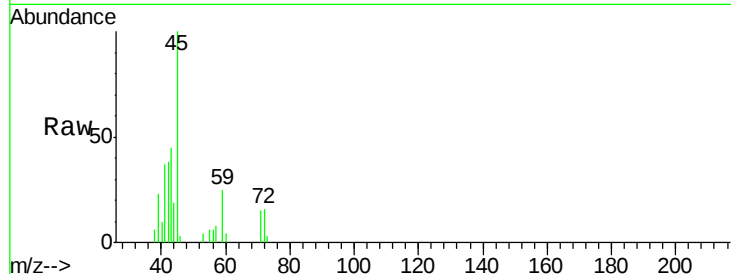
#29
Tetrahydrofuran
Concen: 3.770 ug/l
RT: 7.20 min Scan# 1688
Delta R.T. 0.01 min
Lab File: VN058521.D
Acq: 3 Oct 2019 19:24

Instrument :
MSVOA_N
ClientSampleId :
30474

Tot Ion	Ratio	Lower	Upper
42	100		
72	49.7	33.7	50.5
71	27.8	31.8	47.6#

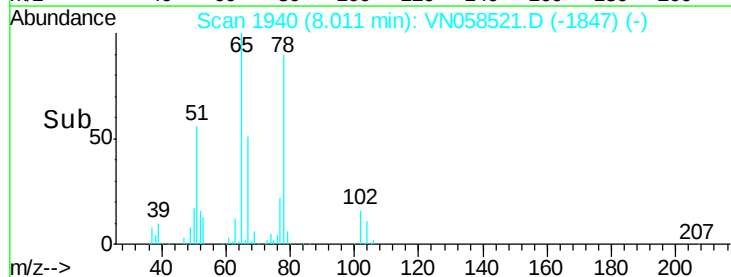
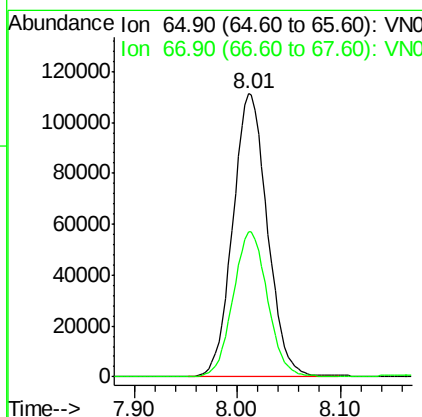
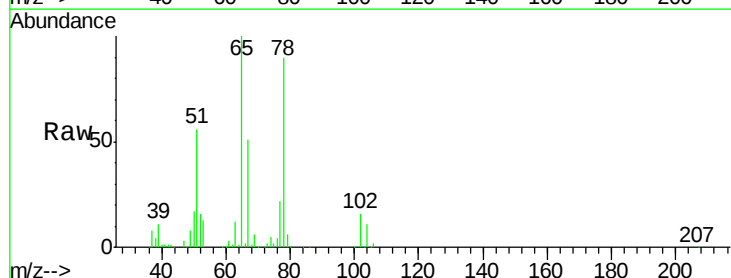
Manual Integrations
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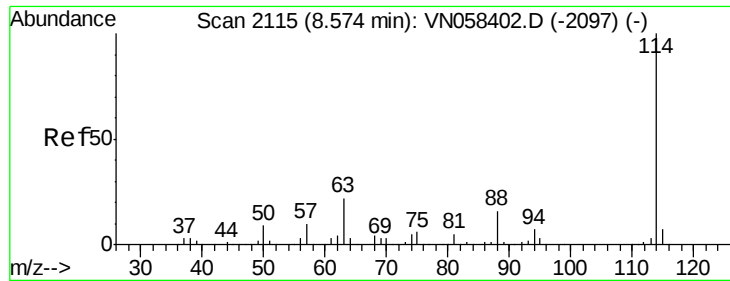
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#33
1,2-Dichloroethane-d4
Concen: 49.121 ug/l
RT: 8.01 min Scan# 1940
Delta R.T. -0.00 min
Lab File: VN058521.D
Acq: 3 Oct 2019 19:24

Tgt Ion	Ratio	Lower	Upper
65	100		
67	51.1	0.0	102.4





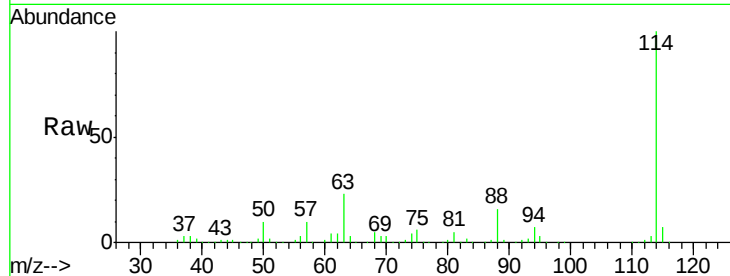
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. -0.00 min
 Lab File: VN058521.D
 Acq: 3 Oct 2019 19:24

Instrument :
 MSVOA_N
 ClientSampleId :
 30474

Tot Ion	Ratio	Resp Lower	Upper
114	100		
63	23.1	0.0	45.0
88	15.9	0.0	32.2

Manual Integrations
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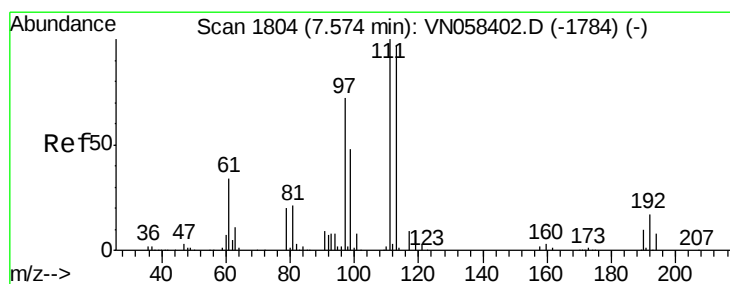
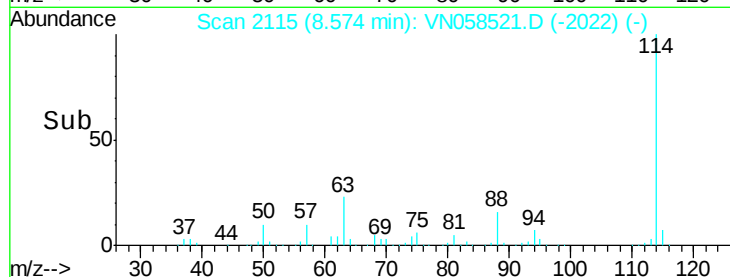
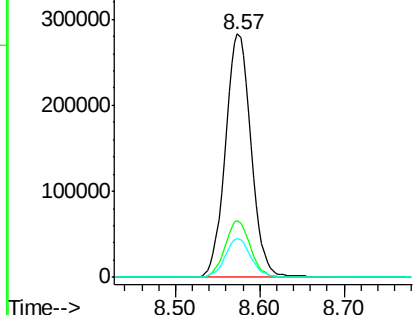
MMDadoda
 10/4/2019 9:31:26 AM



Abundance Ion 113.90 (113.60 to 114.60): V

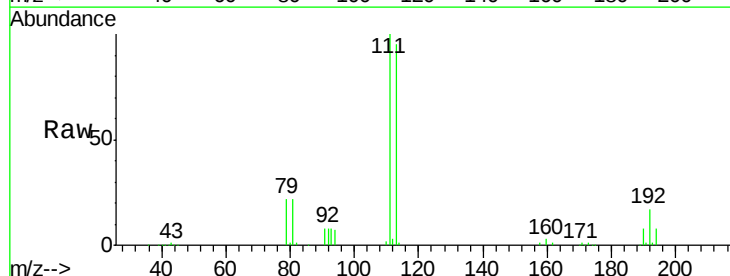
Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35
 Dibromofluoromethane
 Concen: 50.217 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. -0.00 min
 Lab File: VN058521.D
 Acq: 3 Oct 2019 19:24

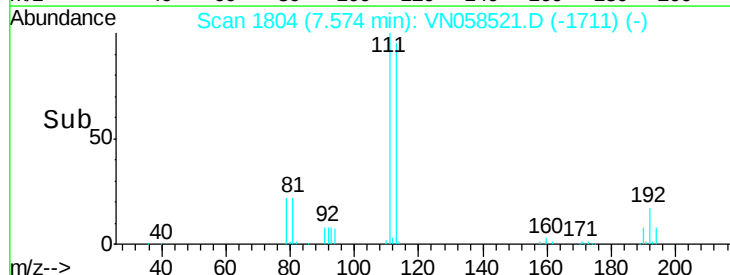
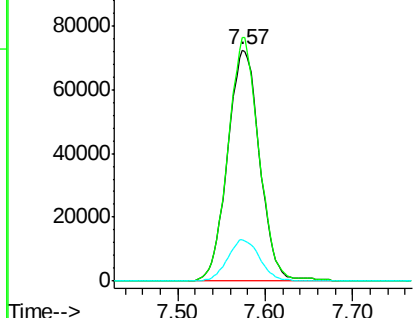
Tgt Ion	Ratio	Resp Lower	Upper
113	100		
111	101.1	83.4	125.2
192	18.0	14.9	22.3

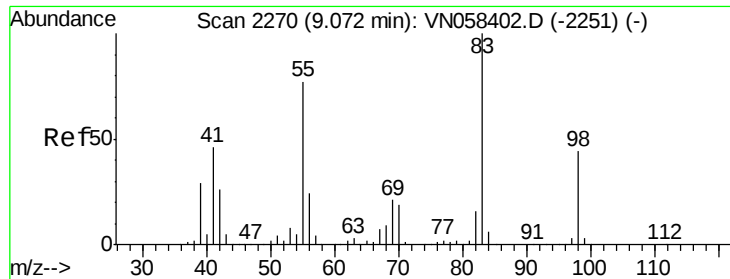


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





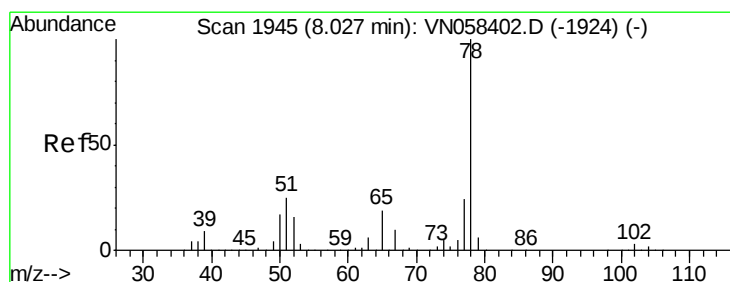
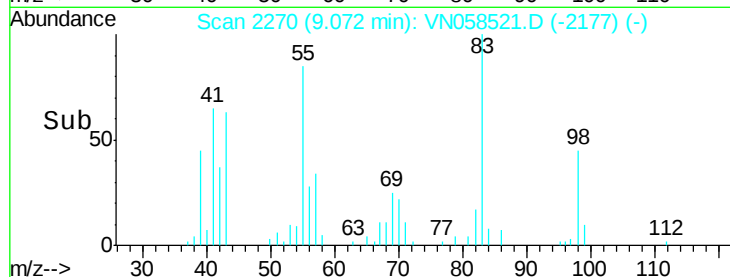
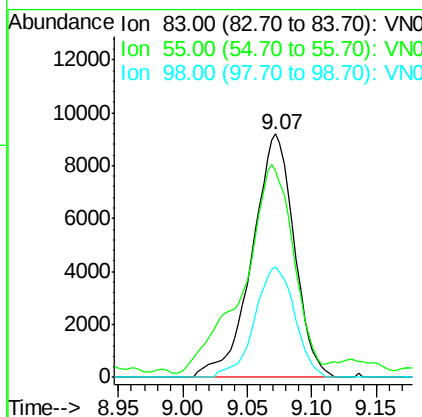
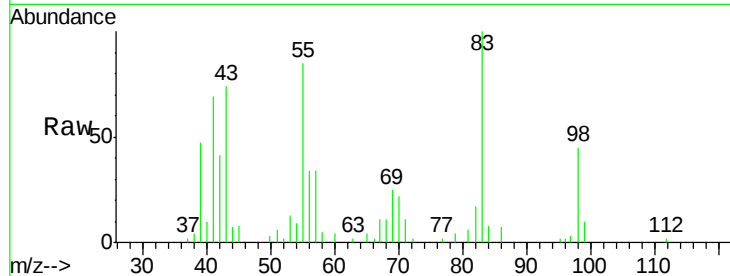
#39
Methvlcvclohexane
Concen: 3.125 ug/l
RT: 9.07 min Scan# 2270
Delta R.T. -0.00 min
Lab File: VN058521.D
Acq: 3 Oct 2019 19:24

Instrument :
MSVOA_N
ClientSampled :
30474

Tot Ion	83.00	Resp	20879
Ion	Ratio	Lower	Upper
83	100		
55	79.4	61.8	92.6
98	45.3	35.4	53.0

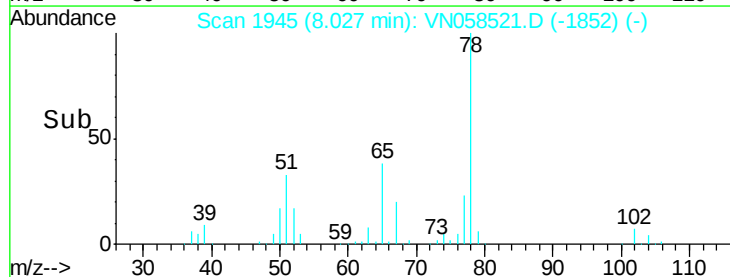
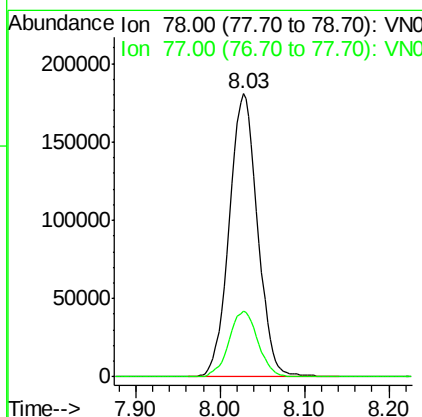
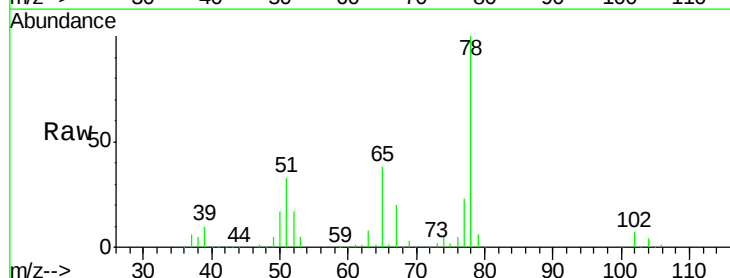
Manual Integrations
APPROVED

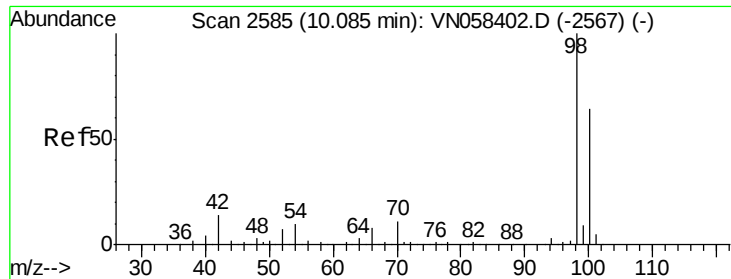
MMDadoda
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#40
Benzene
Concen: 25.659 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. -0.00 min
Lab File: VN058521.D
Acq: 3 Oct 2019 19:24

Tgt Ion	78.00	Resp	421955
Ion	Ratio	Lower	Upper
78	100		
77	23.1	18.9	28.3





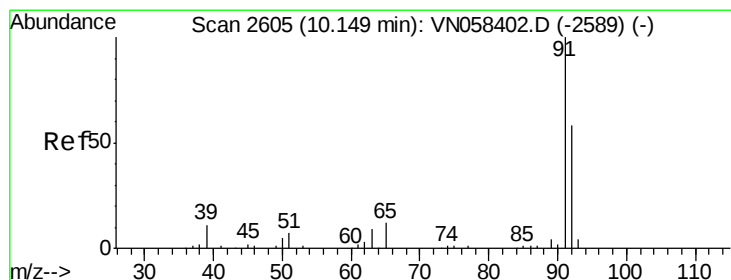
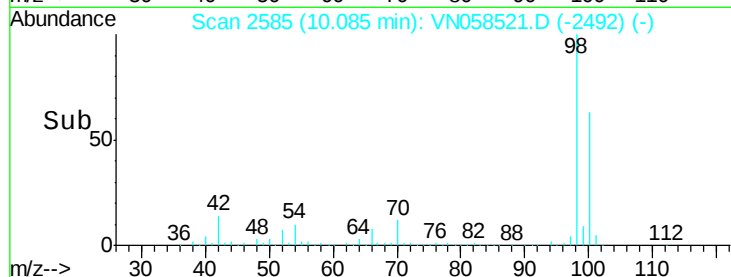
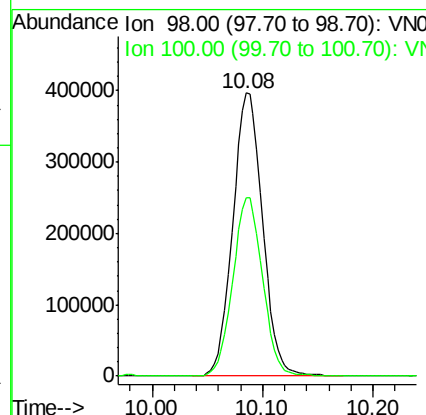
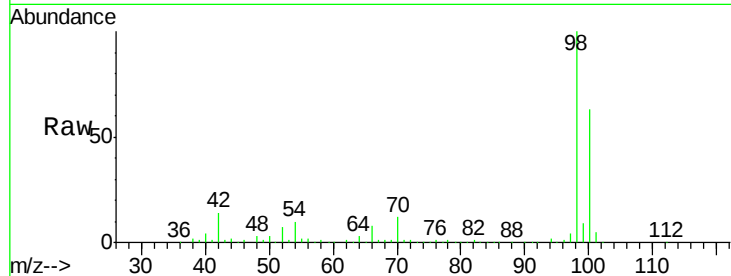
#50
Toluene-d8
Concen: 51.767 ug/l
RT: 10.08 min Scan# 2585
Delta R.T. -0.00 min
Lab File: VN058521.D
Acq: 3 Oct 2019 19:24

Instrument :
MSVOA_N
ClientSampled :
30474

Tot Ion: 98 Resp: 743624
Ion Ratio Lower Upper
98 100
100 63.2 51.0 76.6

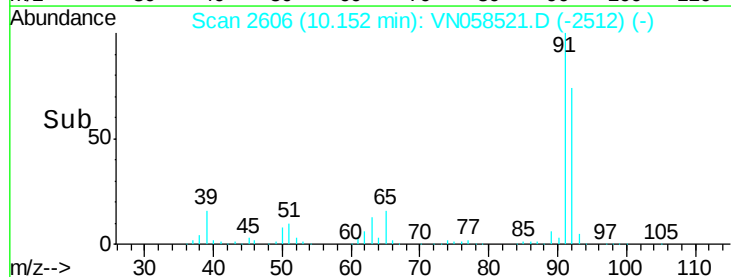
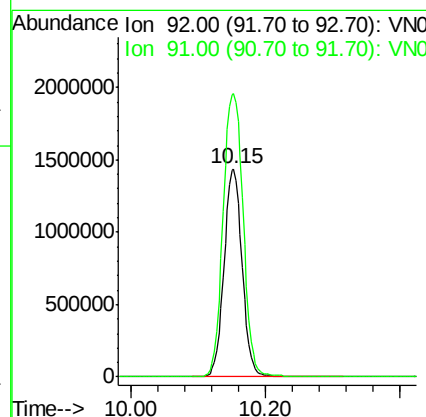
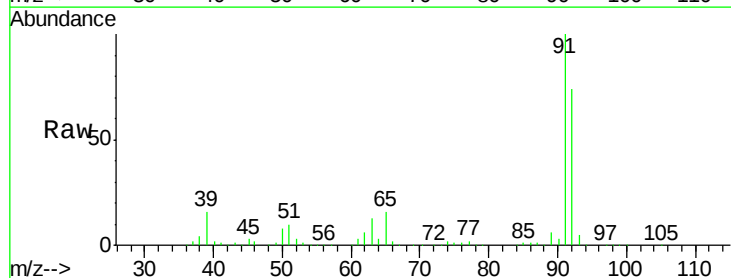
Manual Integrations
APPROVED

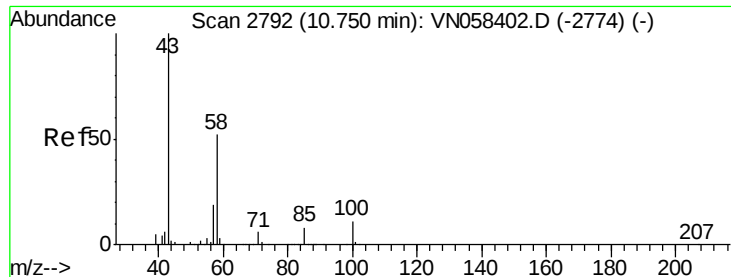
MMDadoda
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#52
Toluene
Concen: 261.019 ug/l
RT: 10.15 min Scan# 2606
Delta R.T. 0.00 min
Lab File: VN058521.D
Acq: 3 Oct 2019 19:24

Tgt Ion: 92 Resp: 2701720
Ion Ratio Lower Upper
92 100
91 152.1 140.2 210.4





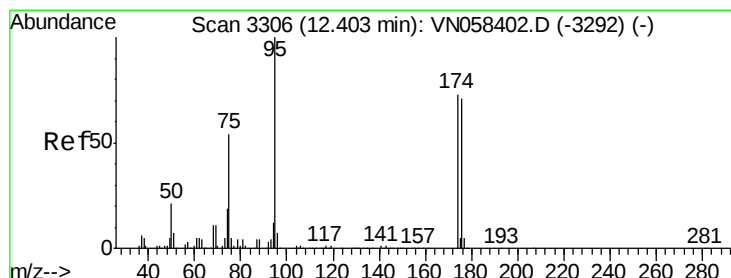
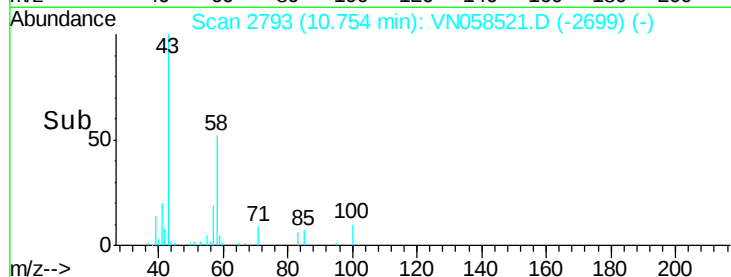
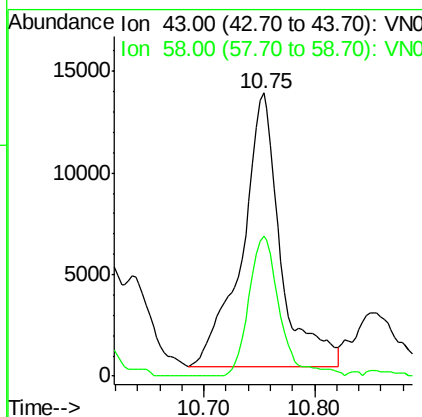
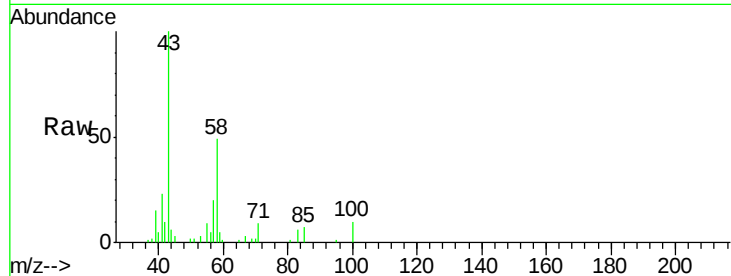
#59
2-Hexanone
Concen: 9.547 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN058521.D
Acq: 3 Oct 2019 19:24

Instrument :
MSVOA_N
ClientSampleId :
30474

Tot Ion: 43 Resp: 32568
Ion Ratio Lower Upper
43 100
58 41.2 25.8 77.3

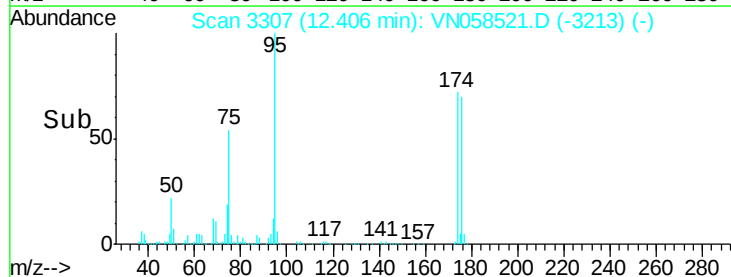
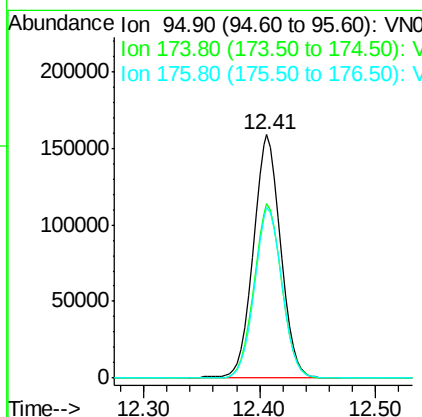
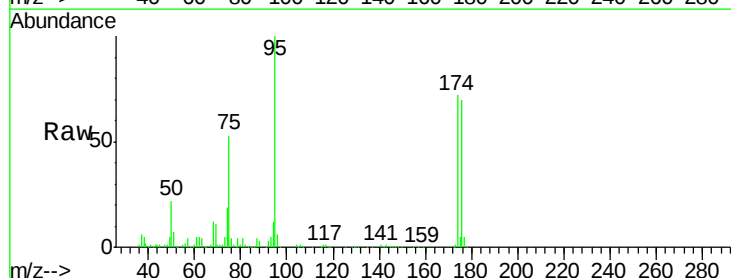
Manual Integrations
APPROVED

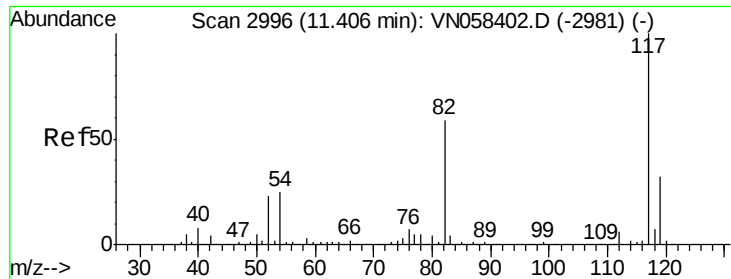
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#62
4-Bromofluorobenzene
Concen: 50.236 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.00 min
Lab File: VN058521.D
Acq: 3 Oct 2019 19:24

Tgt Ion: 95 Resp: 260930
Ion Ratio Lower Upper
95 100
174 72.8 0.0 150.6
176 70.8 0.0 146.2





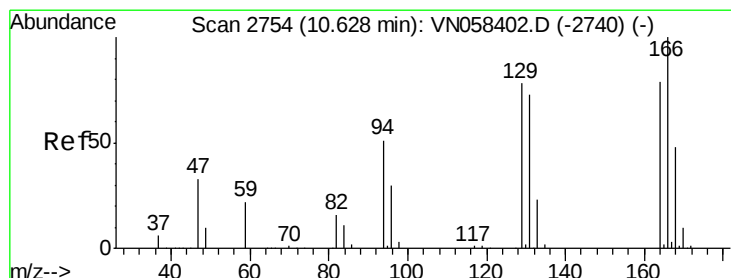
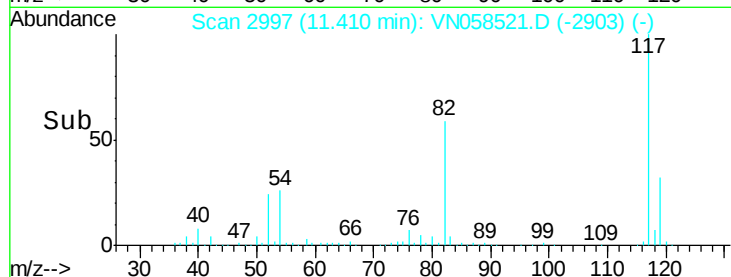
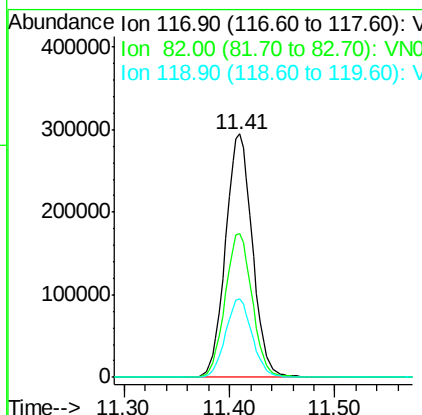
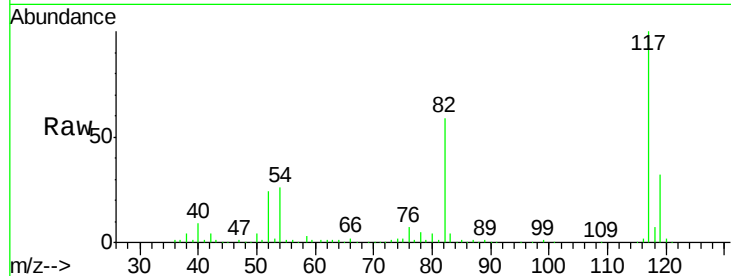
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN058521.D
Acq: 3 Oct 2019 19:24

Instrument :
MSVOA_N
ClientSampled :
30474

Tot Ion	Ratio	Lower	Upper
117	100		
82	59.1	47.4	71.0
119	32.1	25.5	38.3

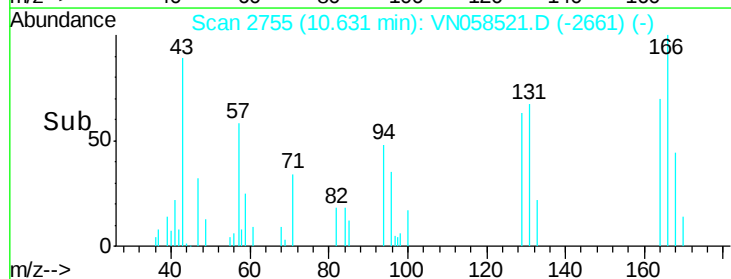
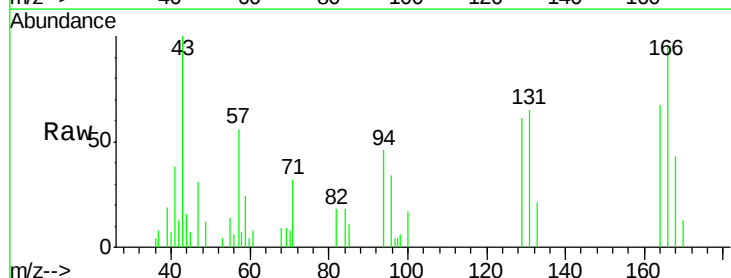
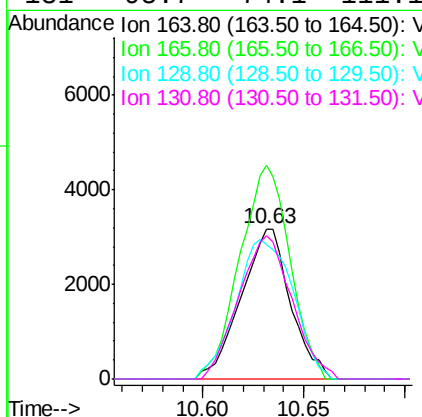
Manual Integrations
APPROVED

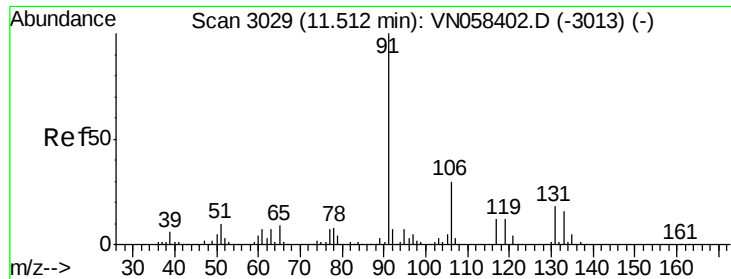
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#64
Tetrachloroethene
Concen: 1.653 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN058521.D
Acq: 3 Oct 2019 19:24

Tgt Ion	Ratio	Lower	Upper
164	100		
166	142.5	101.1	151.7
129	89.9	79.2	118.8
131	95.7	74.1	111.1





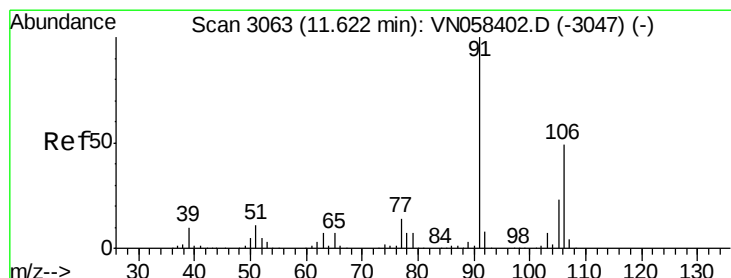
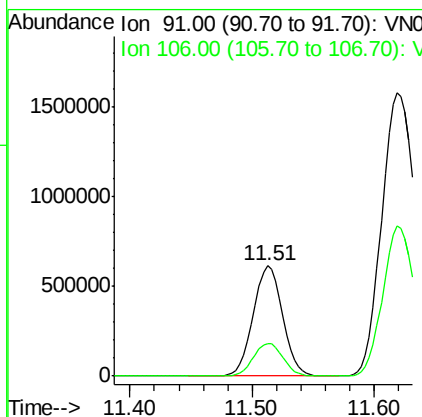
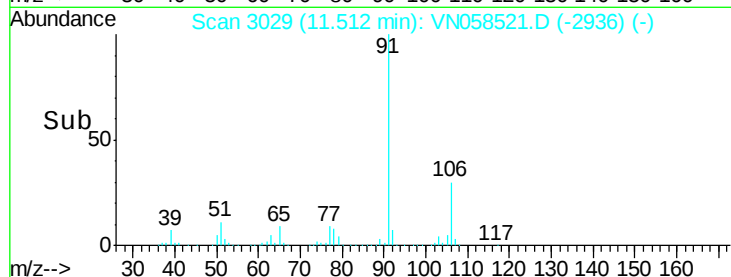
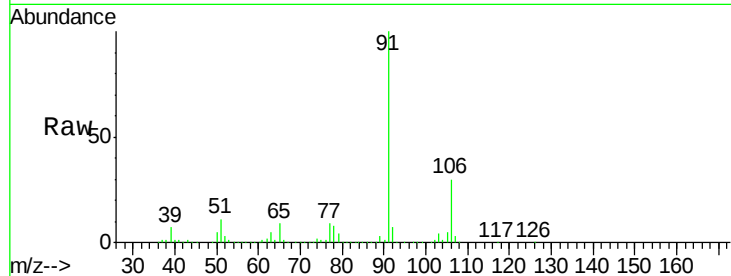
#67
Ethyl Benzene
Concen: 54.883 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. -0.00 min
Lab File: VN058521.D
Acq: 3 Oct 2019 19:24

Instrument :
MSVOA_N
ClientSampled :
30474

Tot Ion: 91 Resp: 1021521
Ion Ratio Lower Upper
91 100
106 30.0 24.3 36.5

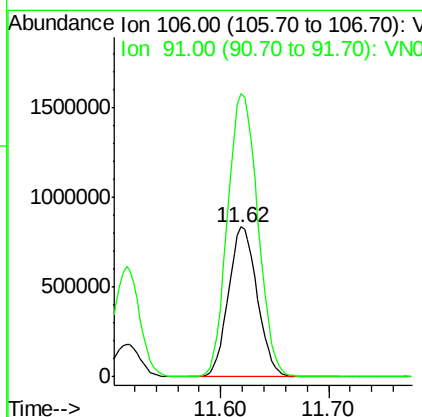
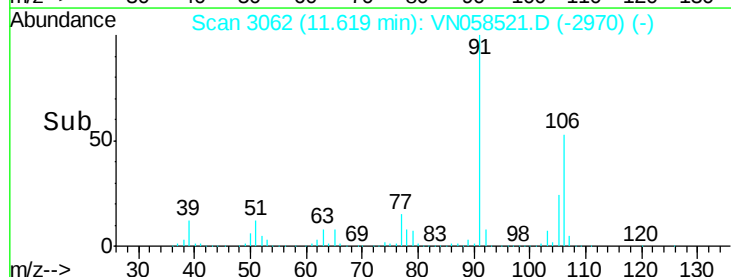
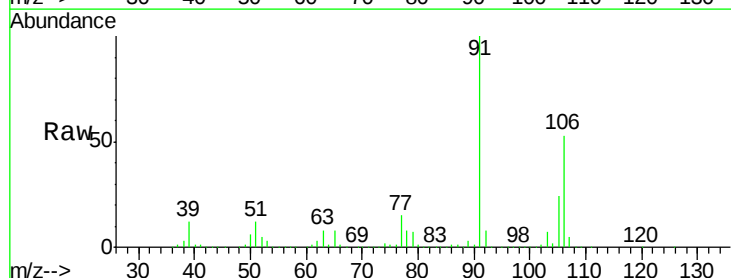
Manual Integrations
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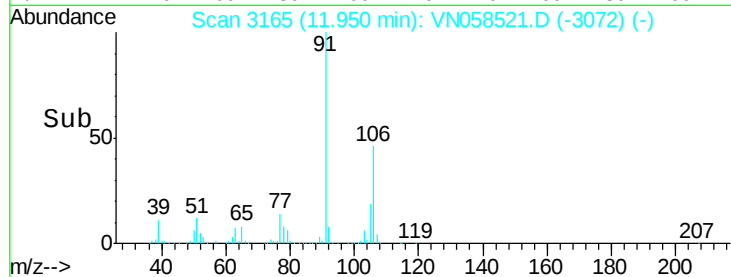
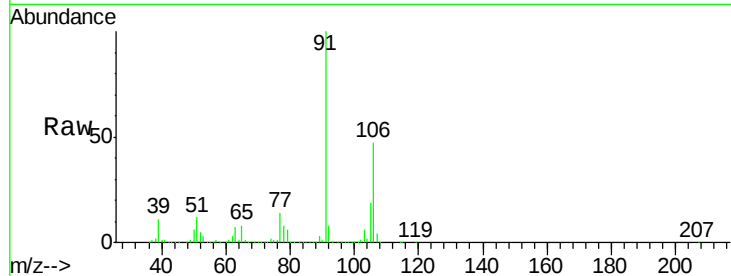
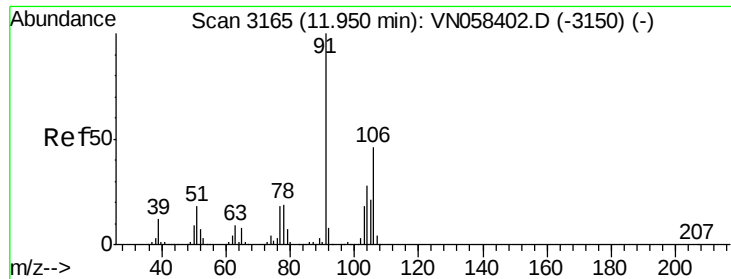
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#68
m/p-Xylenes
Concen: 221.856 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN058521.D
Acq: 3 Oct 2019 19:24

Tgt Ion: 106 Resp: 1553623
Ion Ratio Lower Upper
106 100
91 198.9 165.0 247.4





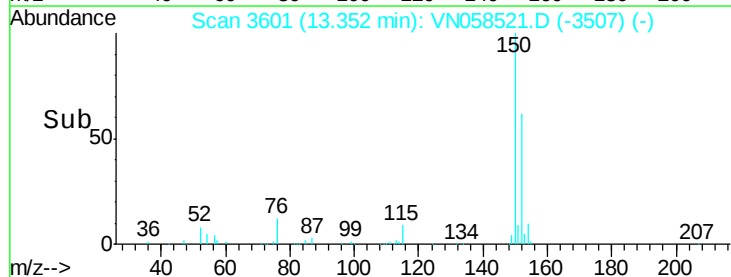
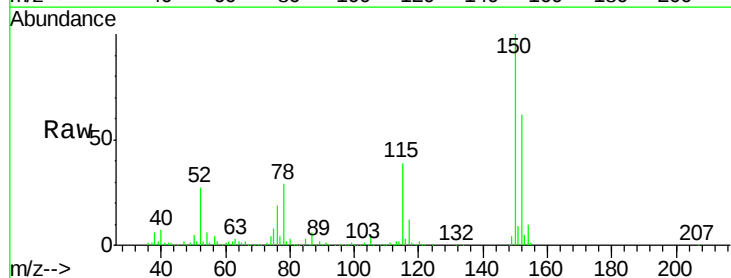
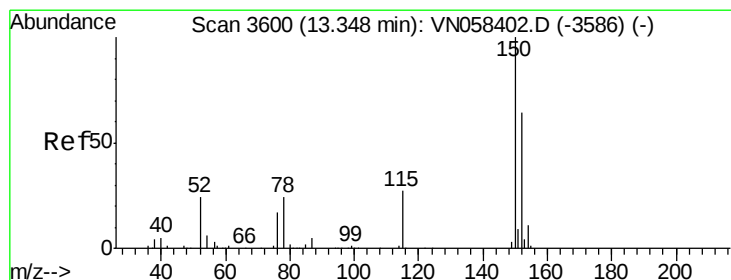
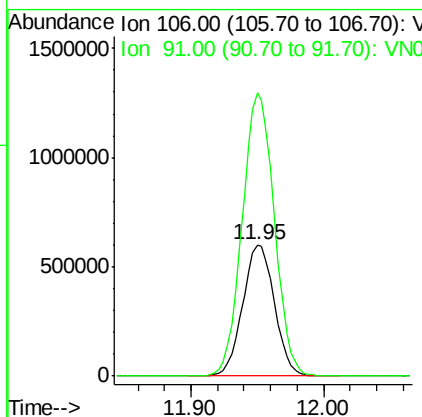
#69
o-Xylene
Concen: 147.917 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. -0.00 min
Lab File: VN058521.D
Acq: 3 Oct 2019 19:24

Tot Ion	Ratio	Resp	Lower	Upper
106	100	997144		
91	217.9	109.1	327.4	

Instrument :
MSVOA_N
ClientSampled :
30474

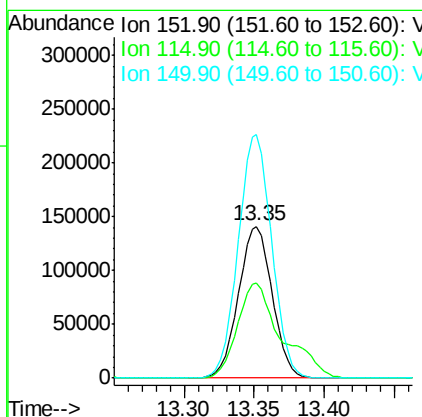
Manual Integrations
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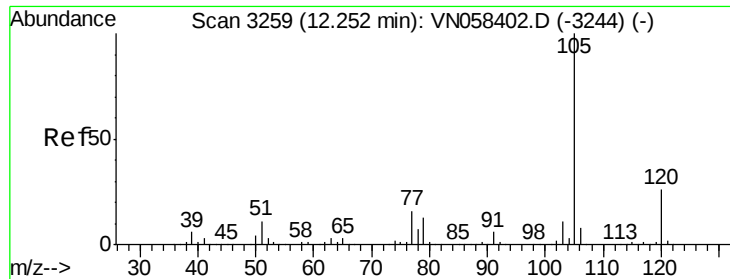
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3601
Delta R.T. 0.00 min
Lab File: VN058521.D
Acq: 3 Oct 2019 19:24

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	236913		
115	80.2	30.0	90.0	
150	159.4	0.0	348.2	





#73

Isopropylbenzene

Concen: 4.081 ug/l

RT: 12.25 min Scan# 3259

Delta R.T. -0.00 min

Lab File: VN058521.D

Acq: 3 Oct 2019 19:24

Instrument :

MSVOA_N

ClientSampled :

30474

Tot Ion: 105 Resp: 71460

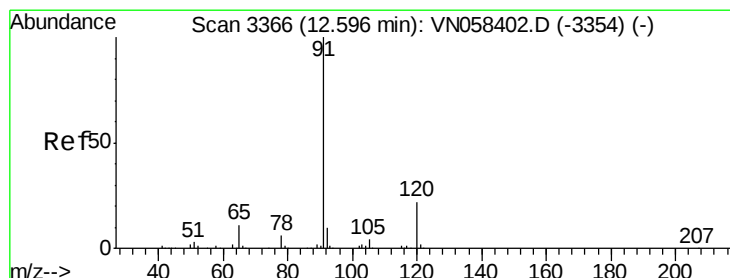
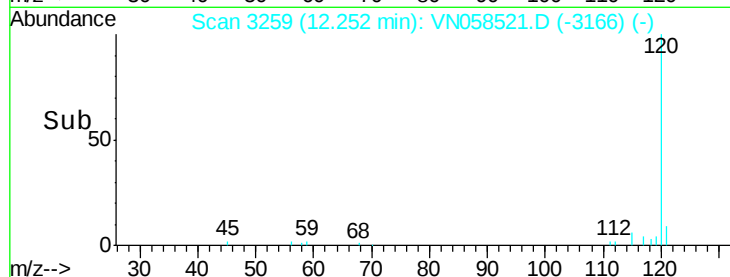
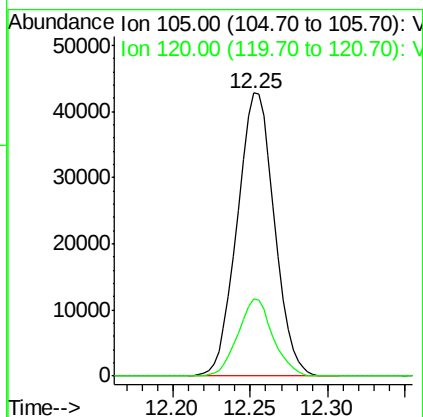
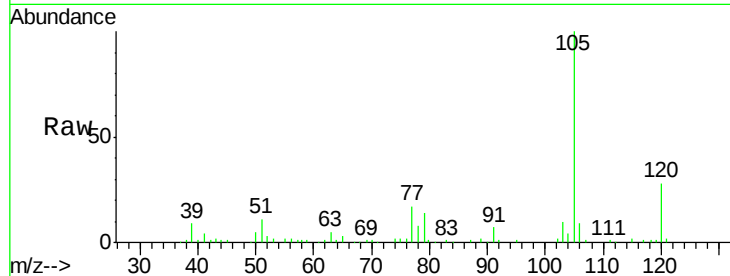
Ion Ratio Lower Upper

105 100

120 25.7 12.8 38.4

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#78

n-propylbenzene

Concen: 14.371 ug/l

RT: 12.60 min Scan# 3366

Delta R.T. -0.00 min

Lab File: VN058521.D

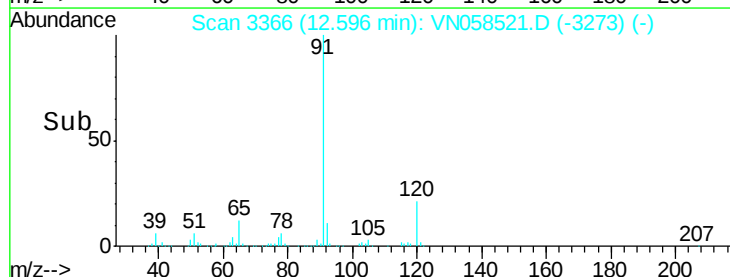
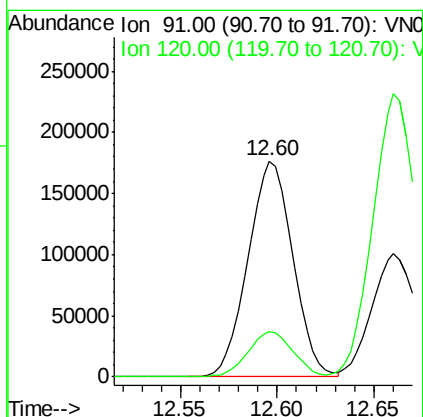
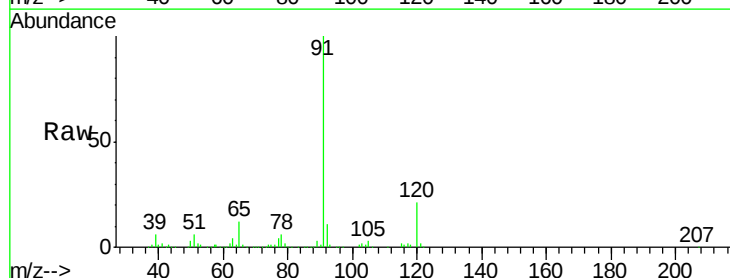
Acq: 3 Oct 2019 19:24

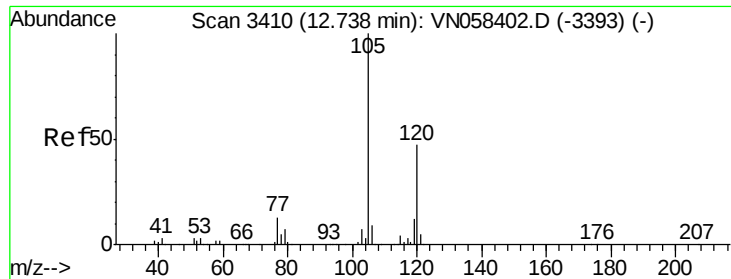
Tgt Ion: 91 Resp: 283468

Ion Ratio Lower Upper

91 100

120 21.3 10.9 32.9





#80

1,3,5-Trimethylbenzene

Concen: 38.821 ug/l

RT: 12.74 min Scan# 3410

Delta R.T. -0.00 min

Lab File: VN058521.D

Acq: 3 Oct 2019 19:24

Instrument :

MSVOA_N

ClientSampled :

30474

Tot Ion:105 Resp: 568978

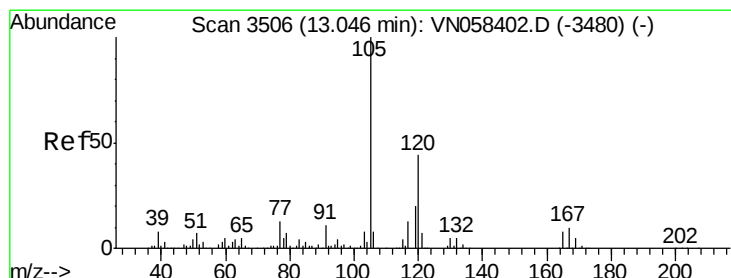
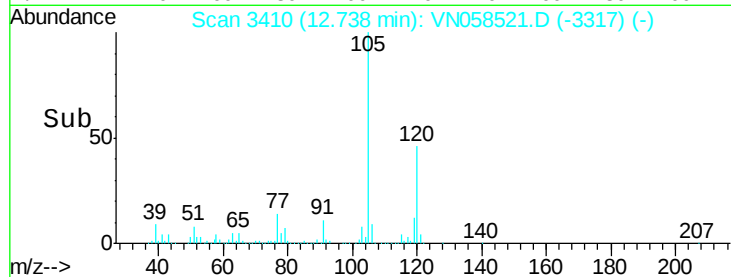
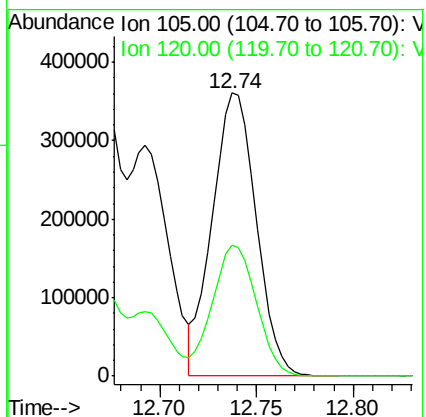
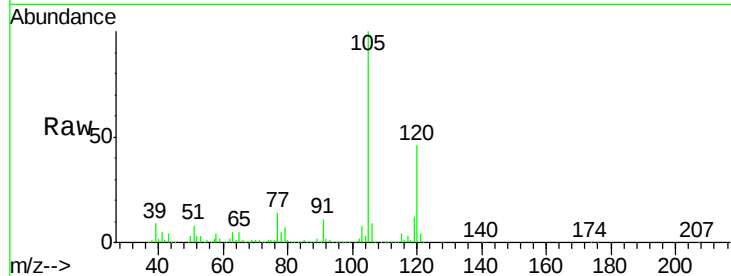
Ion Ratio Lower Upper

105 100

120 46.4 23.5 70.6

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#84

1,2,4-Trimethylbenzene

Concen: 179.502 ug/l

RT: 13.05 min Scan# 3506

Delta R.T. -0.00 min

Lab File: VN058521.D

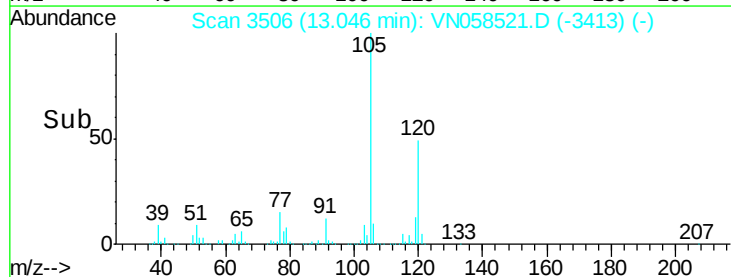
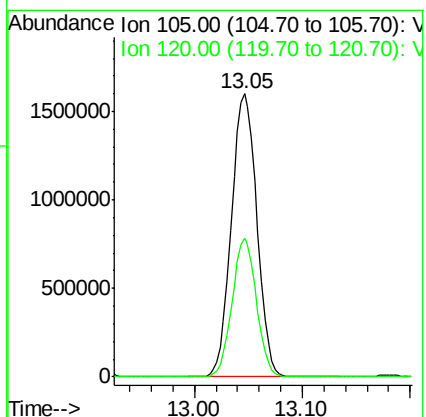
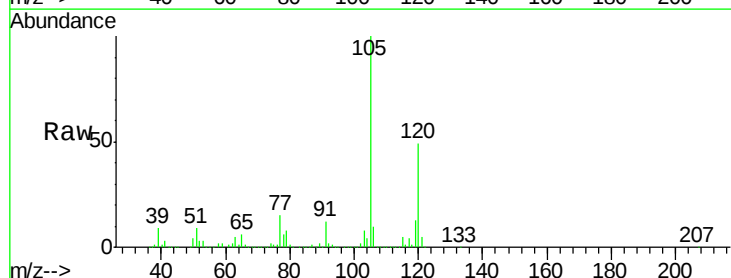
Acq: 3 Oct 2019 19:24

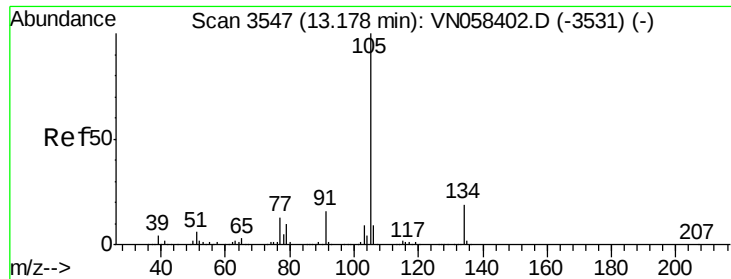
Tgt Ion:105 Resp: 2635855

Ion Ratio Lower Upper

105 100

120 46.6 21.7 65.1





#85

sec-Butylbenzene

Concen: 1.016 ug/l m

RT: 13.18 min Scan# 3547

Delta R.T. -0.00 min

Lab File: VN058521.D

Acq: 3 Oct 2019 19:24

Instrument :

MSVOA_N

ClientSampled :

30474

Tot Ion:105 Resp: 16533

Ion Ratio Lower Upper

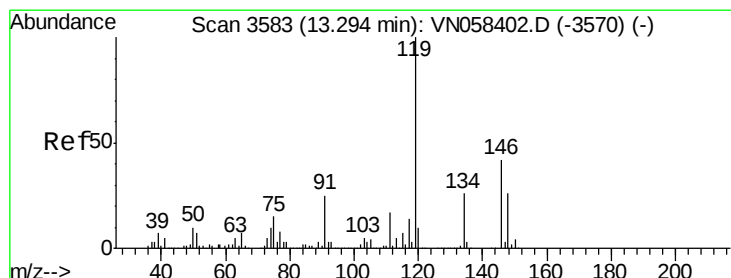
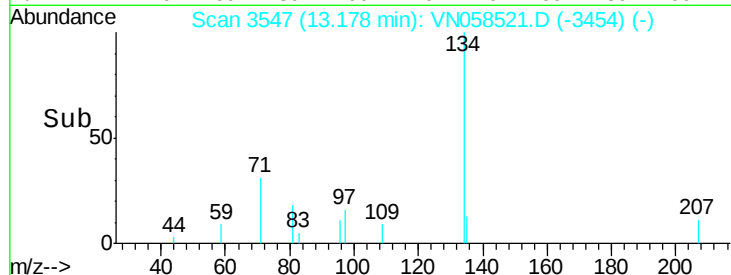
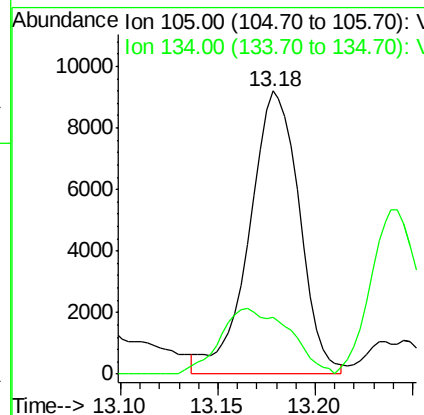
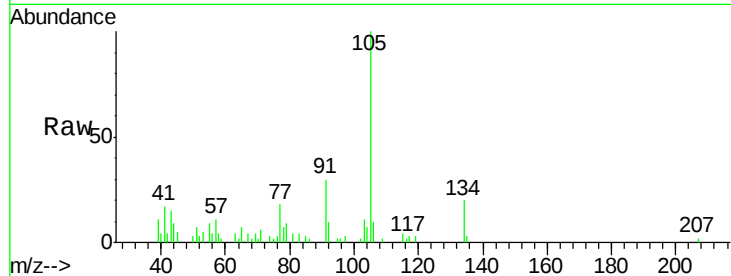
105 100

134 0.0 9.4 28.2#

Manual Integrations
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#86

p-Isopropyltoluene

Concen: 0.756 ug/l

RT: 13.30 min Scan# 3584

Delta R.T. 0.00 min

Lab File: VN058521.D

Acq: 3 Oct 2019 19:24

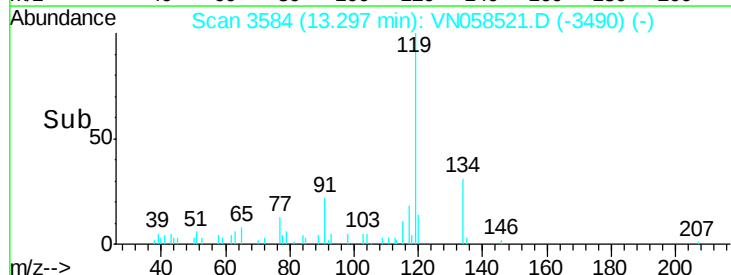
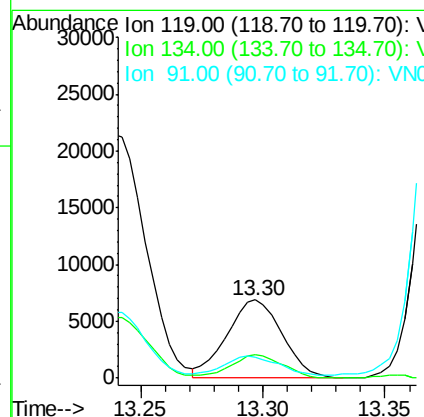
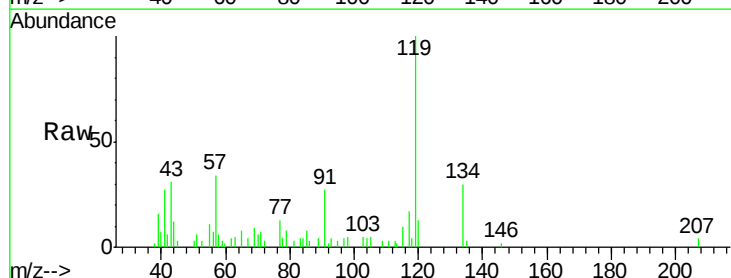
Tgt Ion:119 Resp: 10839

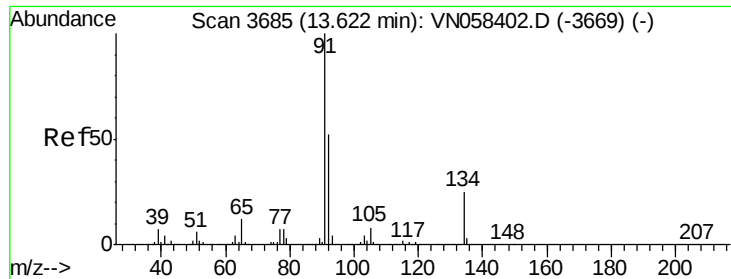
Ion Ratio Lower Upper

119 100

134 28.2 13.0 39.0

91 0.0 12.4 37.0#





#89

n-Butylbenzene

Concen: 2.249 ug/l m

RT: 13.62 min Scan# 3685

Delta R.T. -0.00 min

Lab File: VN058521.D

Acq: 3 Oct 2019 19:24

Instrument :

MSVOA_N

ClientSampled :

30474

Tot Ion: 91 Resp: 29188

Ion Ratio Lower Upper

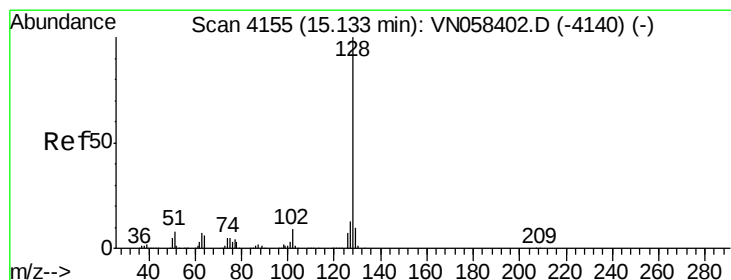
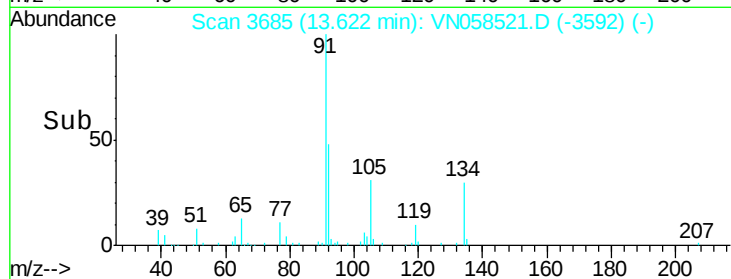
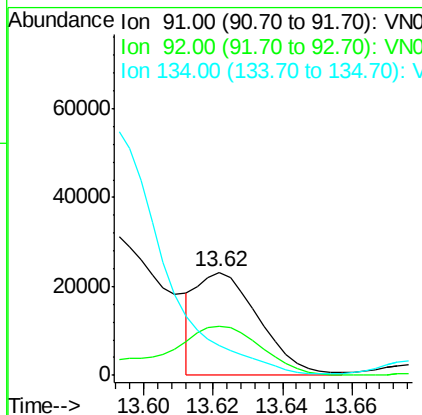
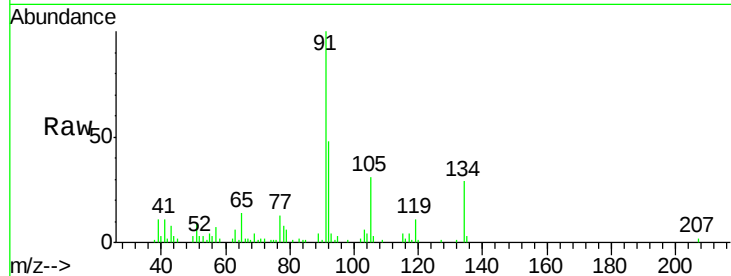
91 100

92 0.0 25.7 77.1#

134 341.0 12.2 36.6#

Manual Integrations
APPROVED

MMDadoda
10/4/2019 9:31:26 AM



#95

Naphthalene

Concen: 113.310 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN058521.D

Acq: 3 Oct 2019 19:24

Tgt Ion: 128 Resp: 1311120

Ion Ratio Lower Upper

128 100

127 13.0 10.2 15.4

129 10.7 8.3 12.5

