

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN030619\
 Data File : VN054115.D
 Acq On : 6 Mar 2019 12:22
 Operator : JC/SP
 Sample : VSTDICC150
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

MMDadoda
 3/7/2019 11:38:25 AM

Quant Time: Mar 07 06:17:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N030619W.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 07 05:44:36 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	687899	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	1080707	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	971720	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	449189	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.02	65	1162642	140.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	281.46%	
35) Dibromofluoromethane	7.59	113	1014795	144.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	289.16%	
50) Toluene-d8	10.09	98	3973773	149.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	298.18%	
62) 4-Bromofluorobenzene	12.40	95	1371299	158.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	316.04%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	863410	130.596	ug/l	100
3) Chloromethane	2.06	50	1208254	127.538	ug/l	100
4) Vinyl Chloride	2.18	62	1198210	133.769	ug/l	100
5) Bromomethane	2.55	94	692689	119.265	ug/l	97
6) Chloroethane	2.70	64	707188	130.254	ug/l	99
7) Trichlorofluoromethane	3.01	101	1474082	134.701	ug/l	99
8) Diethyl Ether	3.41	74	609841	139.853	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.76	101	931104	130.783	ug/l	99
10) Methyl Iodide	3.95	142	1290138	170.755	ug/l	100
11) Tert butyl alcohol	4.78	59	421442	838.513	ug/l	100
12) 1,1-Dichloroethene	3.73	96	904770	136.230	ug/l	99
13) Acrolein	3.60	56	400165	905.314	ug/l	100
14) Allyl chloride	4.32	41	1645520	137.505	ug/l	96
15) Acrylonitrile	4.98	53	2091187	737.131	ug/l	99
16) Acetone	3.81	43	1667166	652.255	ug/l	100
17) Carbon Disulfide	4.05	76	2817069	130.040	ug/l	100
18) Methyl Acetate	4.32	43	905868	139.014	ug/l	100
19) Methyl tert-butyl Ether	5.04	73	2754160	147.761	ug/l	99
20) Methylene Chloride	4.55	84	1047273	128.943	ug/l	99
21) trans-1,2-Dichloroethene	5.04	96	985779	135.203	ug/l	99
22) Diisopropyl ether	5.95	45	3509596	150.519	ug/l	99
23) Vinyl Acetate	5.89	43	13034762	786.995	ug/l	100
24) 1,1-Dichloroethane	5.85	63	1917183	137.430	ug/l	100
25) 2-Butanone	6.83	43	2538997	749.983	ug/l	100
26) 2,2-Dichloropropane	6.82	77	1420214	141.246	ug/l	100
27) cis-1,2-Dichloroethene	6.83	96	1131667	139.191	ug/l	99
28) Bromochloromethane	7.19	49	960637	137.965	ug/l	99
29) Tetrahydrofuran	7.21	42	1665146	750.416	ug/l	99
30) Chloroform	7.37	83	1823101	136.391	ug/l	98
31) Cyclohexane	7.65	56	1820526	120.197	ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	1545225	139.432	ug/l	99
36) 1,1-Dichloropropene	7.79	75	1443189	142.274	ug/l	99
37) Ethyl Acetate	6.92	43	1065598	146.525	ug/l	99
38) Carbon Tetrachloride	7.77	117	1367976	141.266	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	1753393	149.777	ug/l	99
40) Benzene	8.04	78	4328862	144.245	ug/l	100
41) Methacrylonitrile	7.17	41	611959	138.417	ug/l #	100
42) 1,2-Dichloroethane	8.12	62	1349938	142.002	ug/l	99
43) Isopropyl Acetate	8.16	43	1882803	166.574	ug/l	99
44) Trichloroethene	8.83	130	1120482	139.240	ug/l	96
45) 1,2-Dichloropropane	9.12	63	1185283	143.188	ug/l	99
46) Dibromomethane	9.21	93	679165	143.729	ug/l	99
47) Bromodichloromethane	9.40	83	1434220	144.995	ug/l	100
48) Methyl methacrylate	9.20	41	953307	170.794	ug/l	97
49) 1,4-Dioxane	9.20	88	245396	3327.106	ug/l	98
51) 4-Methyl-2-Pentanone	9.98	43	5325043	822.292	ug/l	100
52) Toluene	10.16	92	2627823	147.798	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	1591079	163.081	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	1798388	155.962	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	967927	144.568	ug/l	99
56) Ethyl methacrylate	10.43	69	1376396	175.122	ug/l	99
57) 1,3-Dichloropropane	10.71	76	1701114	148.912	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.69	63	3142120	873.422	ug/l	100
59) 2-Hexanone	10.75	43	3567443	835.039	ug/l	99
60) Dibromochloromethane	10.90	129	1100314	153.698	ug/l	99
61) 1,2-Dibromoethane	11.00	107	972297	152.622	ug/l	99
64) Tetrachloroethene	10.63	164	1036066	129.919	ug/l	98
65) Chlorobenzene	11.43	112	2864416	141.649	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	1047070	144.647	ug/l	99
67) Ethyl Benzene	11.51	91	4994389	147.595	ug/l	100
68) m/p-Xylenes	11.62	106	3753957	293.970	ug/l	99
69) o-Xylene	11.95	106	1833720	149.227	ug/l	99
70) Styrene	11.96	104	3038812	155.790	ug/l	100
71) Bromoform	12.13	173	778960	156.355	ug/l #	99
73) Isopropylbenzene	12.25	105	4763648	133.281	ug/l	100
74) N-amyl acetate	12.07	43	1564672	165.295	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.50	83	1234208	132.673	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	1107627m	157.712	ug/l	
77) Bromobenzene	12.53	156	1222480	132.757	ug/l	98
78) n-propylbenzene	12.59	91	5633371	140.070	ug/l	100
79) 2-Chlorotoluene	12.67	91	3296341	134.949	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	4052841	139.493	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	376997	169.124	ug/l	95
82) 4-Chlorotoluene	12.77	91	3384977	139.013	ug/l	100
83) tert-Butylbenzene	12.99	119	3460016	134.473	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	4103231	142.291	ug/l	99
85) sec-Butylbenzene	13.17	105	4712926	134.975	ug/l	99
86) p-Isopropyltoluene	13.29	119	4135752	140.892	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	2161457	138.190	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	2118126	136.450	ug/l	100
89) n-Butylbenzene	13.61	91	3718910	150.052	ug/l	99
90) Hexachloroethane	13.87	117	770693	136.887	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	2065677	132.663	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	186908	143.326	ug/l	97

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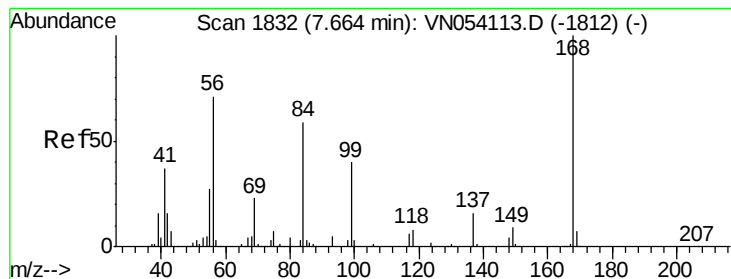
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	1231002	165.618	ug/l	99
94) Hexachlorobutadiene	15.01	225	654791	117.488	ug/l	100
95) Naphthalene	15.13	128	2804258	182.919	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	1184064	158.271	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN054115.D

Acq: 6 Mar 2019 12:22

Instrument :

MSVOA_N

ClientSampled :

VSTDIC150

Tot Ion:168 Resp: 687899

Ion Ratio Lower Upper

168 100

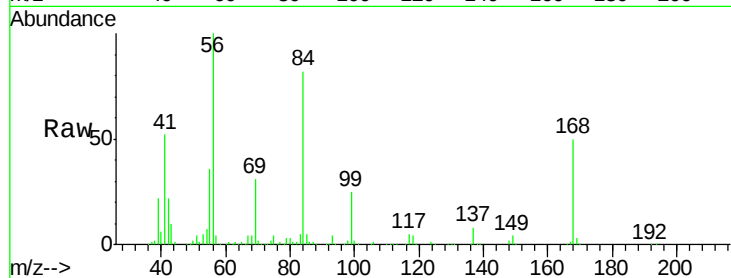
99 51.1 41.1 61.7

Manual Integrations

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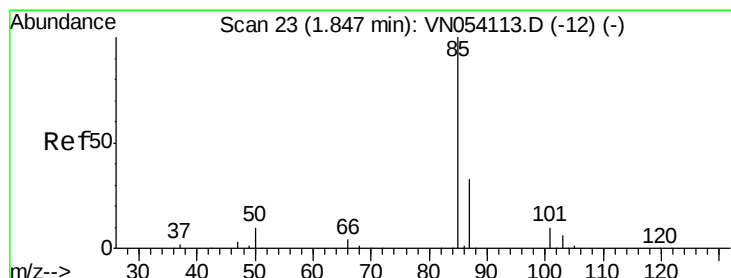
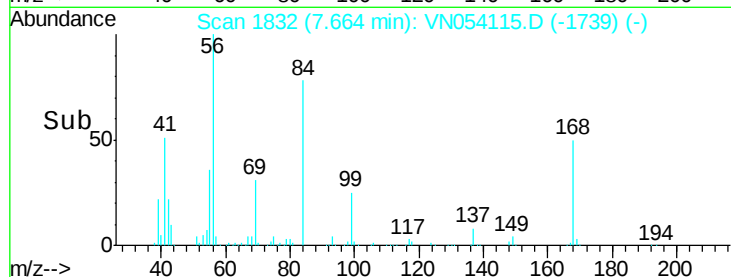
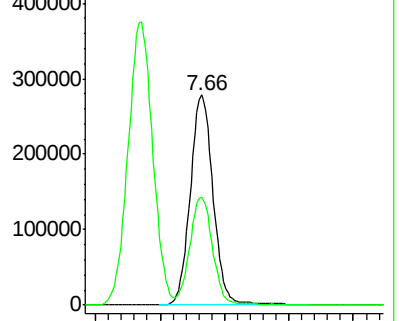
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 130.596 ug/l

RT: 1.85 min Scan# 23

Delta R.T. 0.00 min

Lab File: VN054115.D

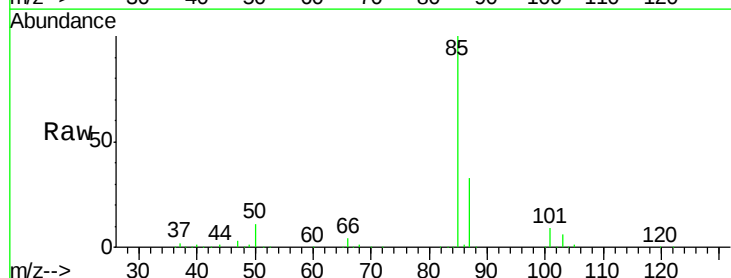
Acq: 6 Mar 2019 12:22

Tgt Ion: 85 Resp: 863410

Ion Ratio Lower Upper

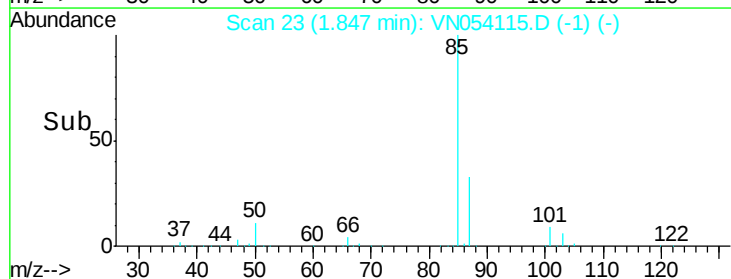
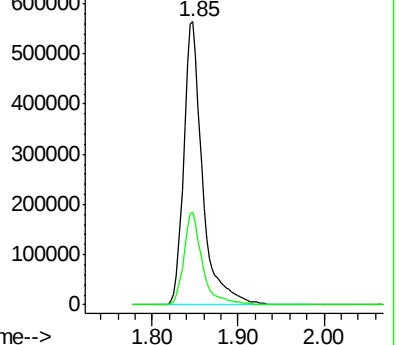
85 100

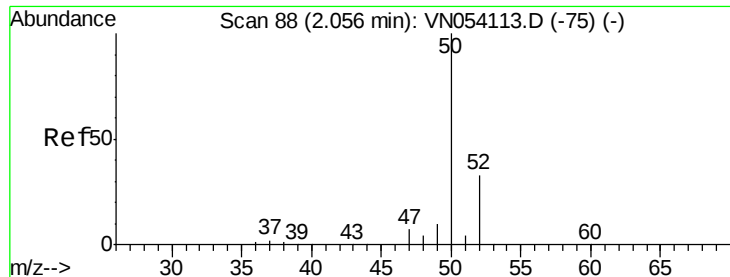
87 32.7 16.4 49.2



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#3

Chloromethane

Concen: 127.538 ug/l

RT: 2.06 min Scan# 88

Delta R.T. 0.00 min

Lab File: VN054115.D

Acq: 6 Mar 2019 12:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 50 Resp: 1208254

Ion Ratio Lower Upper

50 100

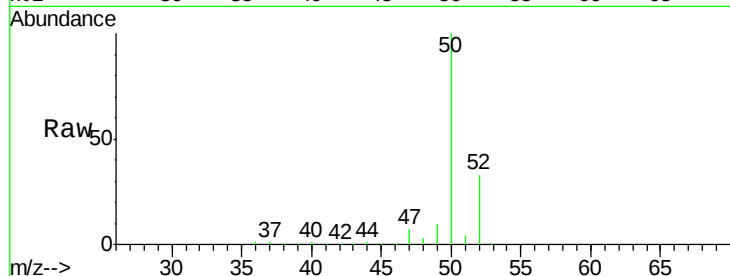
52 32.6 26.0 39.0

Manual Integrations

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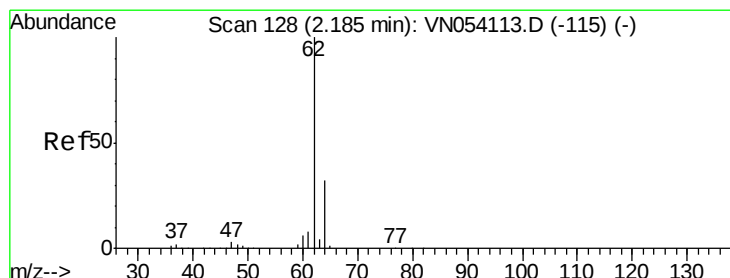
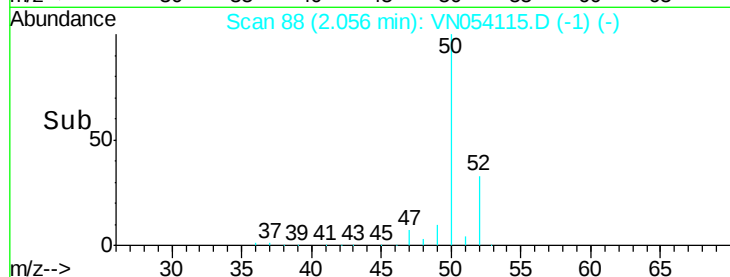
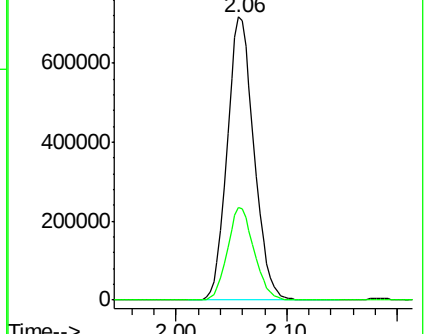
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Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO



#4

Vinyl Chloride

Concen: 133.769 ug/l

RT: 2.18 min Scan# 128

Delta R.T. 0.00 min

Lab File: VN054115.D

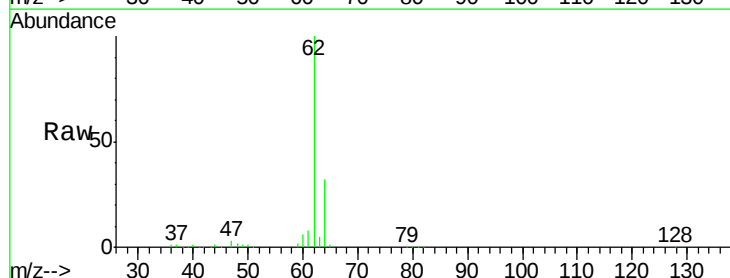
Acq: 6 Mar 2019 12:22

Tgt Ion: 62 Resp: 1198210

Ion Ratio Lower Upper

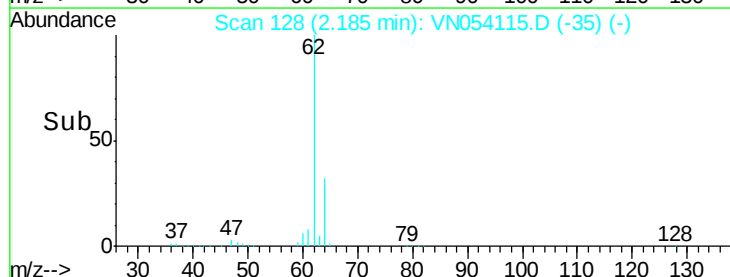
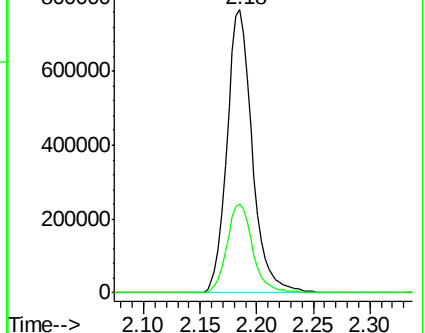
62 100

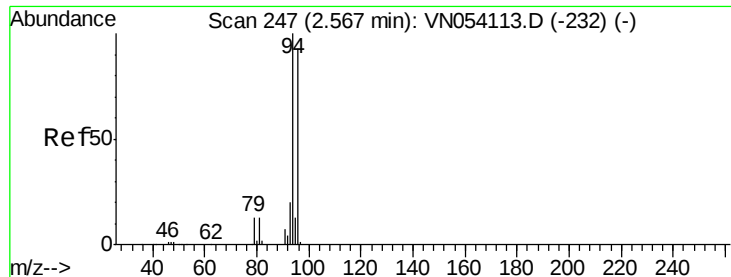
64 31.6 25.3 37.9



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO





#5

Bromomethane

Concen: 119.265 ug/l

RT: 2.55 min Scan# 242

Delta R.T. -0.02 min

Lab File: VN054115.D

Acq: 6 Mar 2019 12:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 94 Resp: 692689

Ion Ratio Lower Upper

94 100

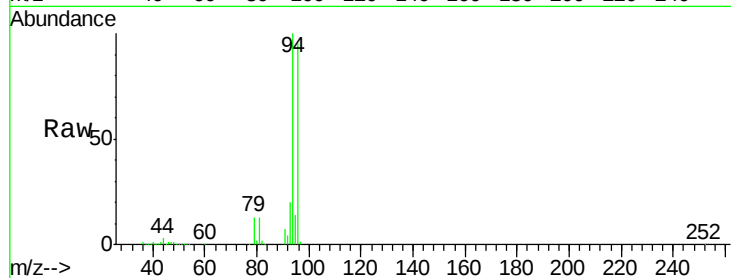
96 95.2 74.2 111.4

Manual Integrations

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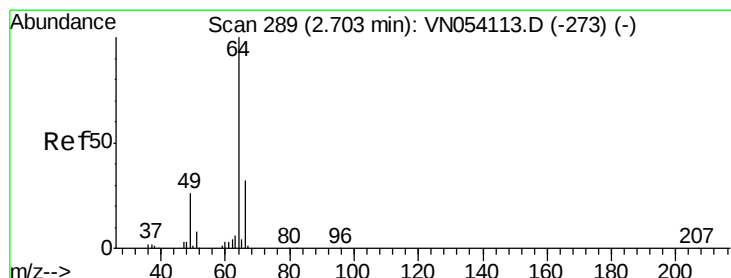
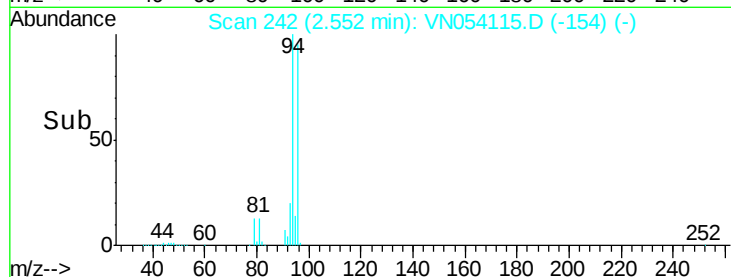
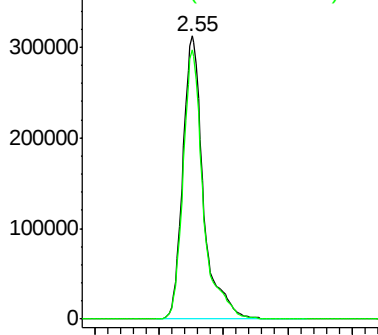
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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 130.254 ug/l

RT: 2.70 min Scan# 287

Delta R.T. -0.01 min

Lab File: VN054115.D

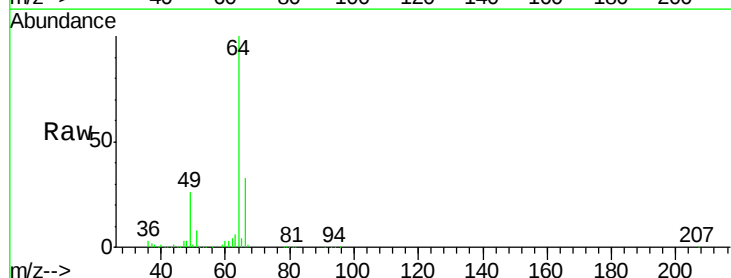
Acq: 6 Mar 2019 12:22

Tgt Ion: 64 Resp: 707188

Ion Ratio Lower Upper

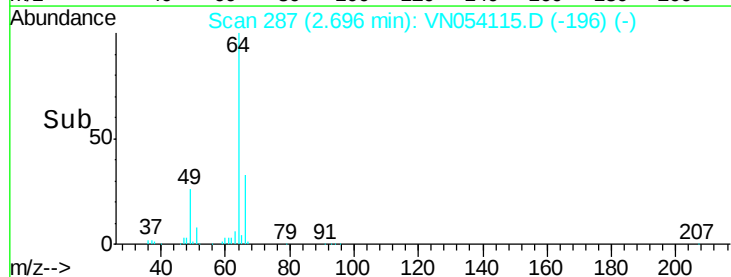
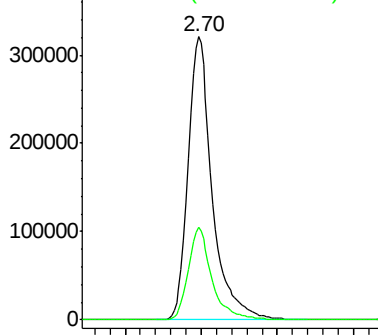
64 100

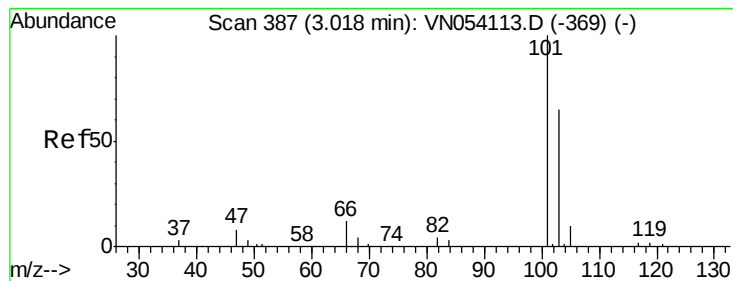
66 32.6 25.4 38.2



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

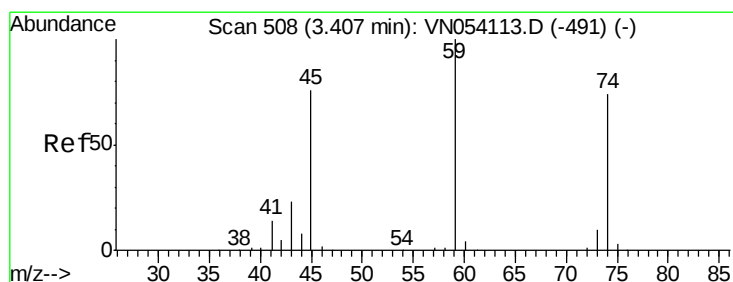
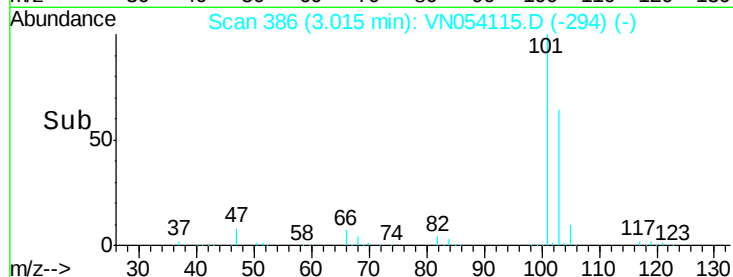
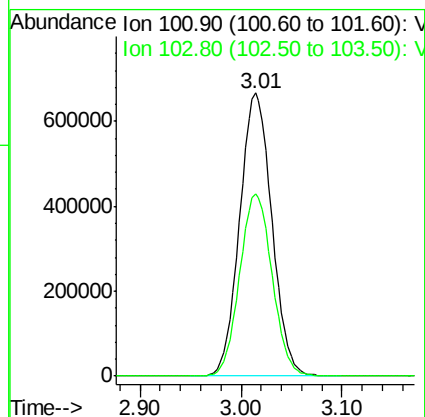
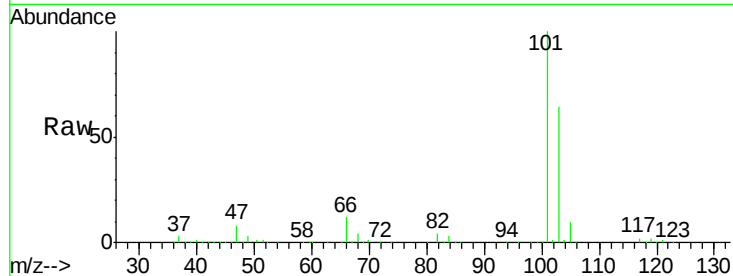
Trichlorofluoromethane
Concen: 134.701 ug/l
RT: 3.01 min Scan# 386
Delta R.T. -0.00 min
Lab File: VN054115.D
Acq: 6 Mar 2019 12:22

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ClientSampleId :
VSTDIC150

Tot Ion:101 Resp: 1474082
Ion Ratio Lower Upper
101 100
103 64.4 52.0 78.0

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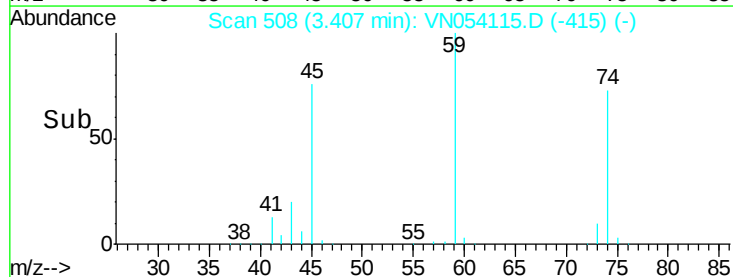
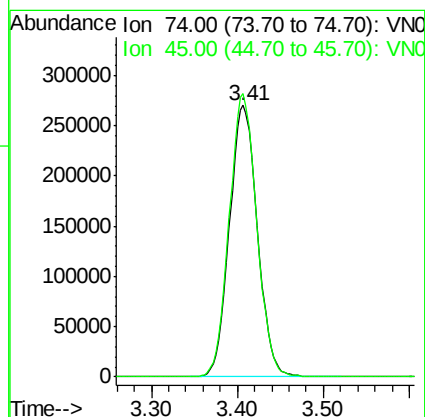
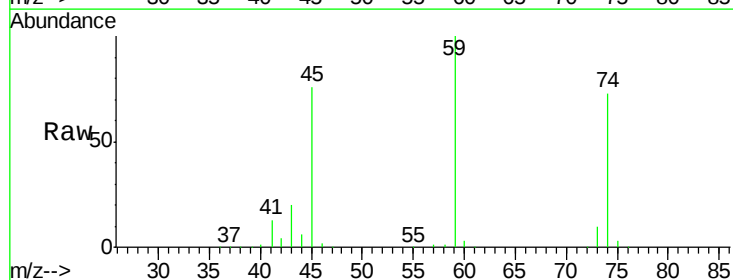
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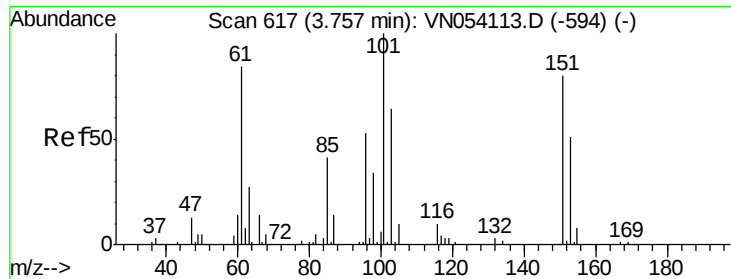


#8

Diethyl Ether
Concen: 139.853 ug/l
RT: 3.41 min Scan# 508
Delta R.T. 0.00 min
Lab File: VN054115.D
Acq: 6 Mar 2019 12:22

Tgt Ion: 74 Resp: 609841
Ion Ratio Lower Upper
74 100
45 102.2 51.7 155.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 130.783 ug/l

RT: 3.76 min Scan# 617

Delta R.T. 0.00 min

Lab File: VN054115.D

Acq: 6 Mar 2019 12:22

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MSVOA_N

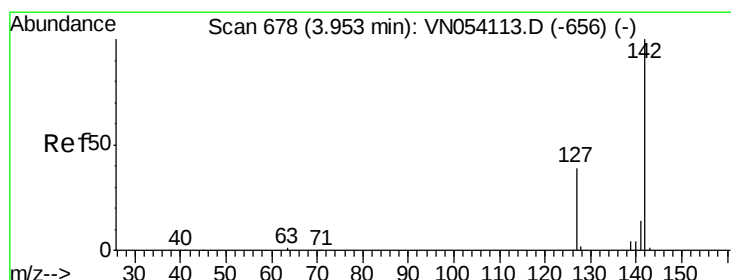
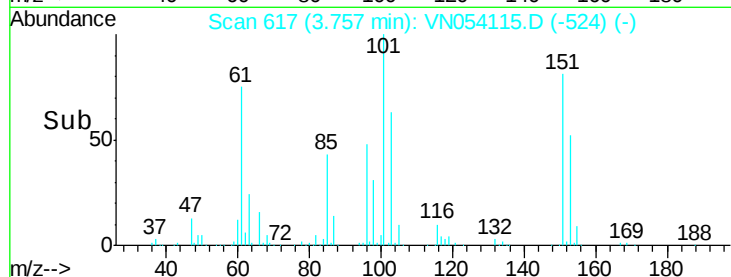
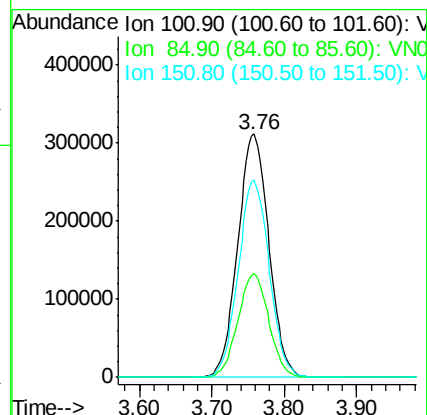
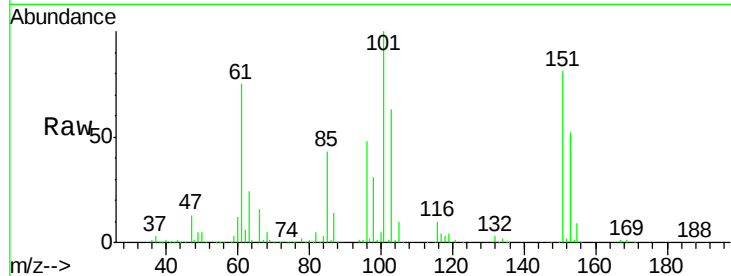
ClientSampleId :

VSTDIC150

Tot Ion:	101	Resp:	931104
Ion Ratio	Lower	Upper	
101	100		
85	42.3	33.1	49.7
151	80.9	64.3	96.5

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#10

Methyl Iodide

Concen: 170.755 ug/l

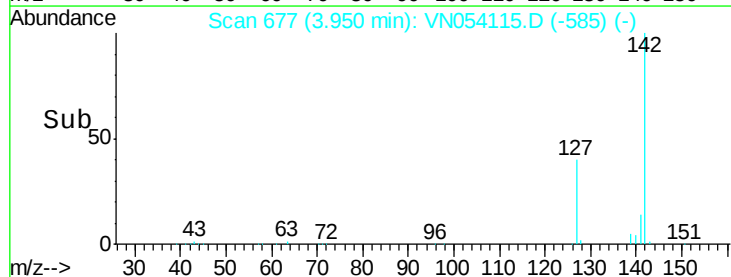
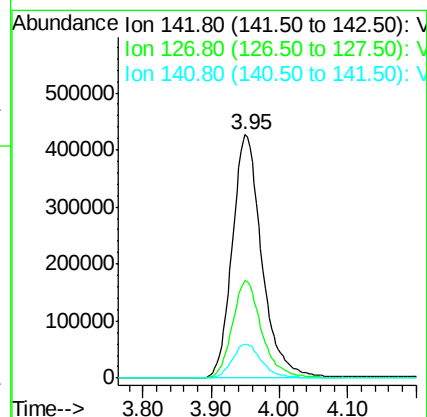
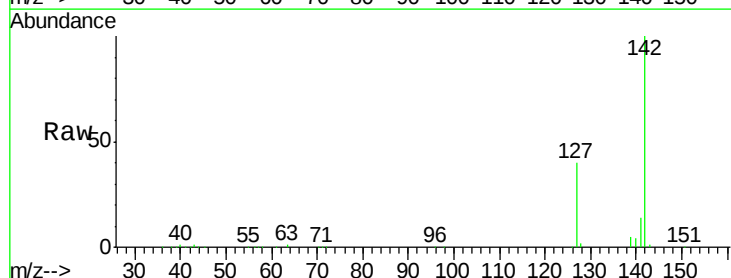
RT: 3.95 min Scan# 677

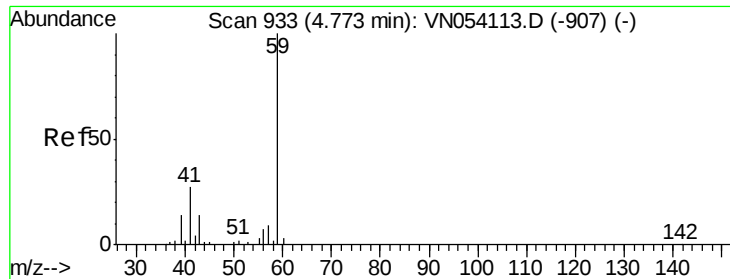
Delta R.T. -0.00 min

Lab File: VN054115.D

Acq: 6 Mar 2019 12:22

Tgt Ion:	142	Resp:	1290138
Ion Ratio	Lower	Upper	
142	100		
127	39.8	31.9	47.9
141	14.1	11.4	17.0





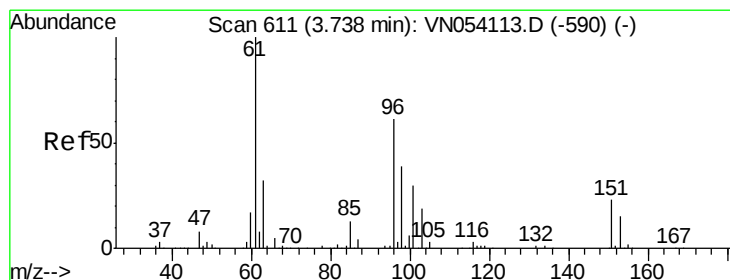
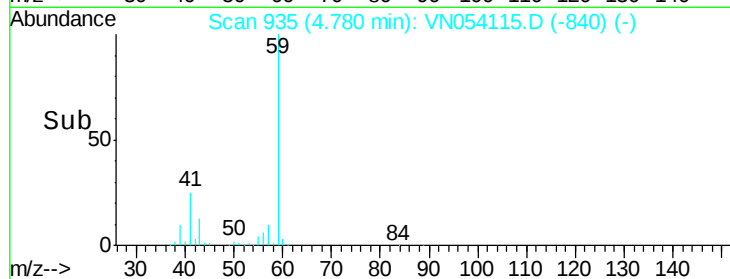
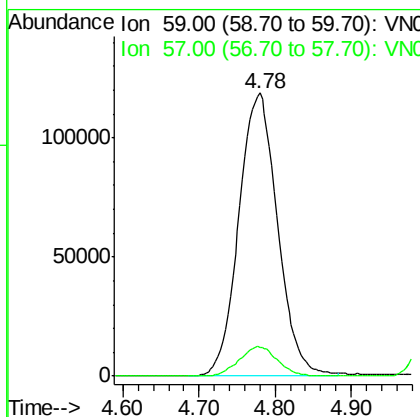
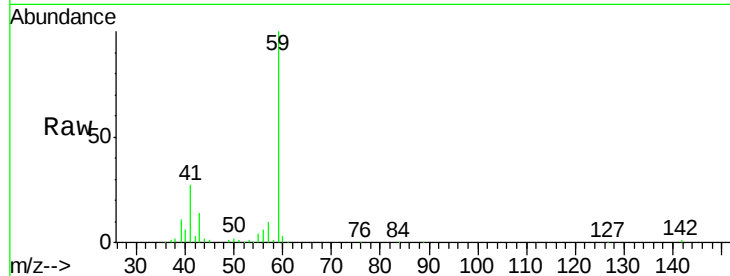
#11
Tert butyl alcohol
Concen: 838.513 ug/l
RT: 4.78 min Scan# 935
Delta R.T. 0.01 min
Lab File: VN054115.D
Acq: 6 Mar 2019 12:22

Instrument :
MSVOA_N
ClientSampled :
VSTDIC150

Tot Ion	59	Resp	421442
Ion Ratio	100	Lower	Upper
57	10.3	8.2	12.4

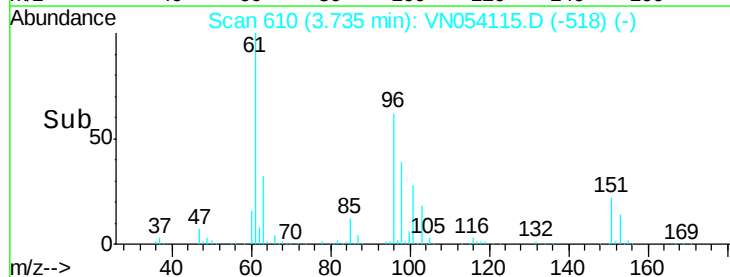
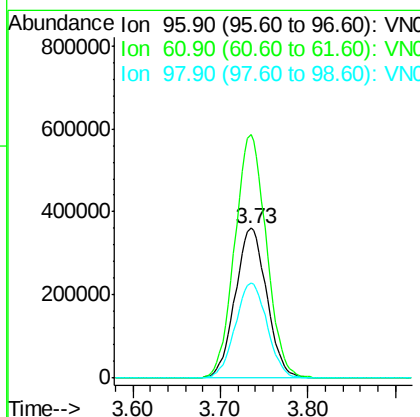
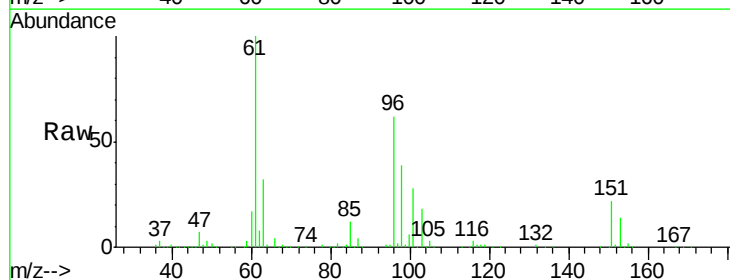
Manual Integrations
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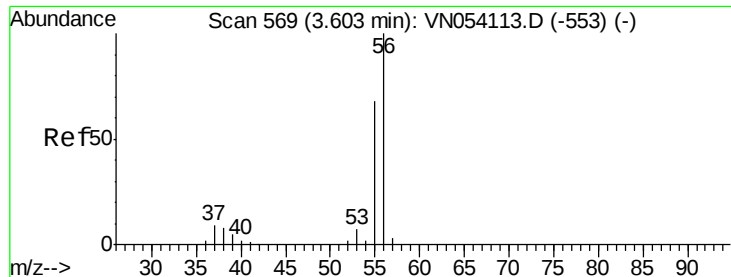
MMDadoda
3/7/2019 11:38:25 AM



#12
1,1-Dichloroethene
Concen: 136.230 ug/l
RT: 3.73 min Scan# 610
Delta R.T. -0.00 min
Lab File: VN054115.D
Acq: 6 Mar 2019 12:22

Tgt Ion	96	Resp	904770
Ion Ratio	100	Lower	Upper
61	162.4	131.2	196.8
98	63.3	50.7	76.1





#13

Acrolein

Concen: 905.314 ug/l

RT: 3.60 min Scan# 568

Delta R.T. -0.00 min

Lab File: VN054115.D

Acq: 6 Mar 2019 12:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 56 Resp: 400165

Ion Ratio Lower Upper

56 100

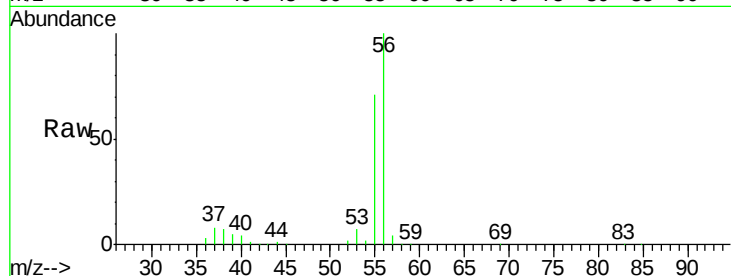
55 71.7 57.1 85.7

Manual Integrations

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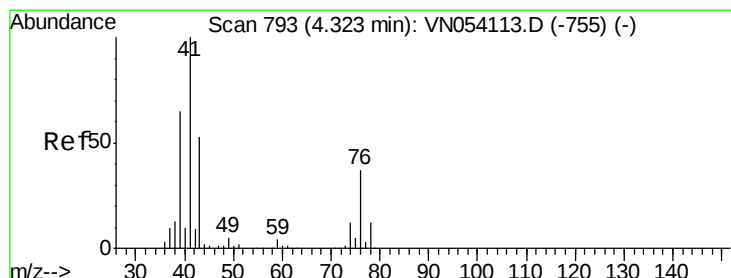
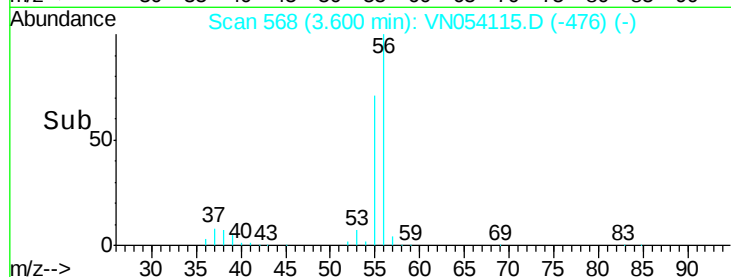
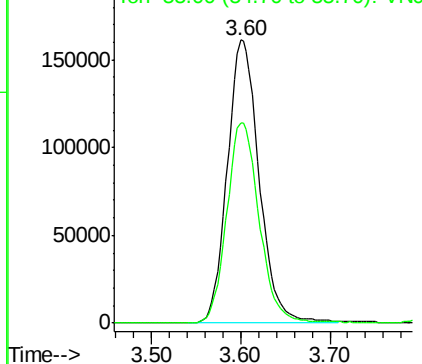
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Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO



#14

Allyl chloride

Concen: 137.505 ug/l

RT: 4.32 min Scan# 792

Delta R.T. -0.00 min

Lab File: VN054115.D

Acq: 6 Mar 2019 12:22

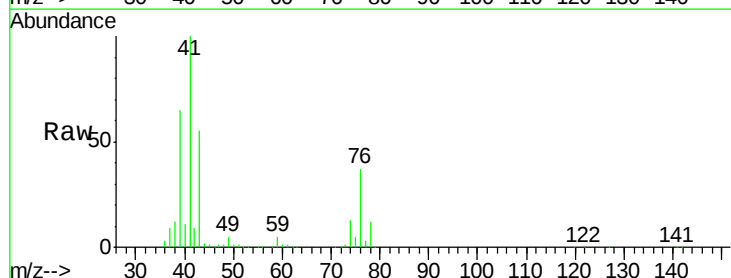
Tgt Ion: 41 Resp: 1645520

Ion Ratio Lower Upper

41 100

39 64.2 49.3 73.9

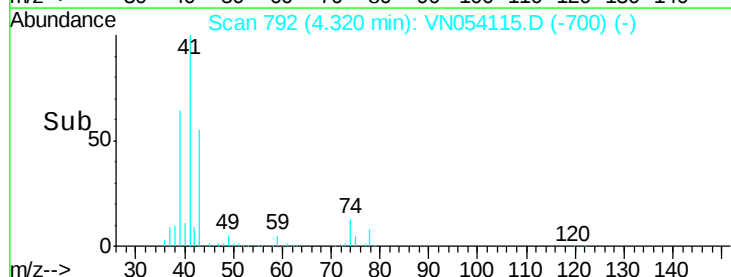
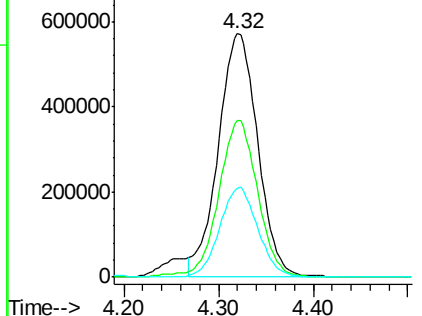
76 35.5 26.5 39.7

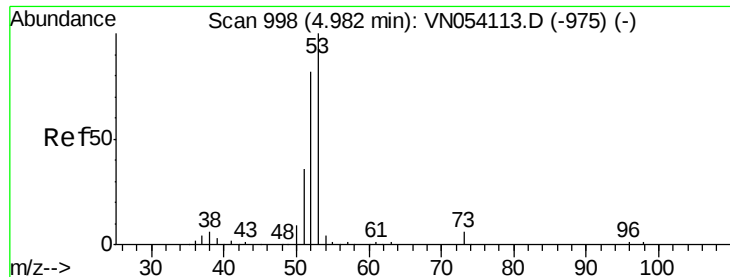


Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 75.90 (75.60 to 76.60): VNO





#15

Acrylonitrile

Concen: 737.131 ug/l

RT: 4.98 min Scan# 998

Delta R.T. 0.00 min

Lab File: VN054115.D

Acq: 6 Mar 2019 12:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 53 Resp: 2091187

Ion Ratio Lower Upper

53 100

52 82.3 64.6 97.0

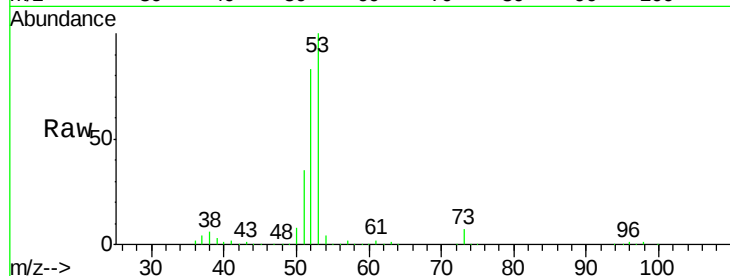
51 35.4 28.6 42.8

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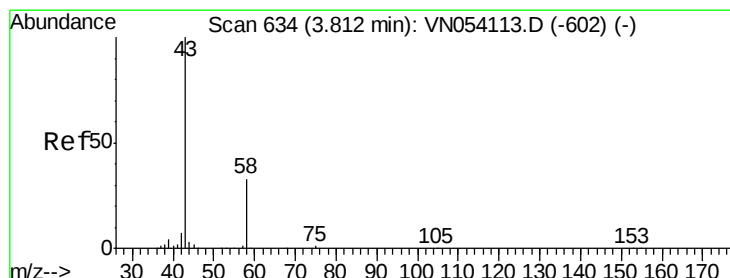
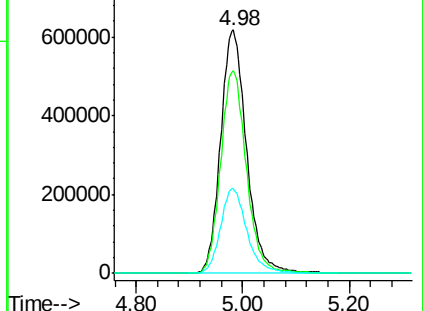
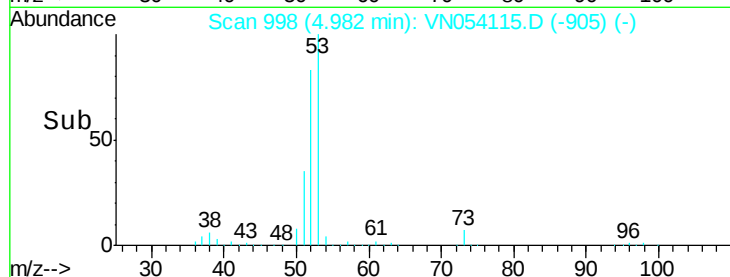
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Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0



#16

Acetone

Concen: 652.255 ug/l

RT: 3.81 min Scan# 633

Delta R.T. -0.00 min

Lab File: VN054115.D

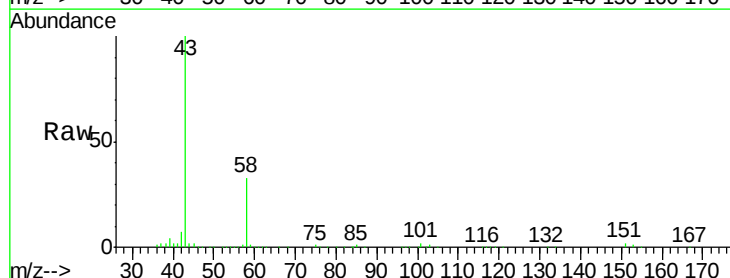
Acq: 6 Mar 2019 12:22

Tgt Ion: 43 Resp: 1667166

Ion Ratio Lower Upper

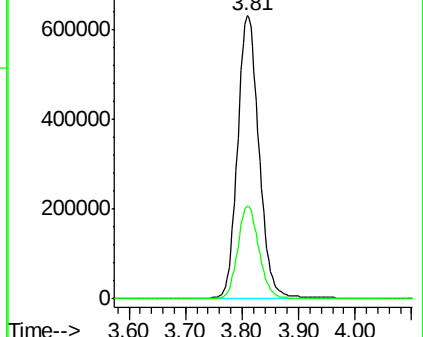
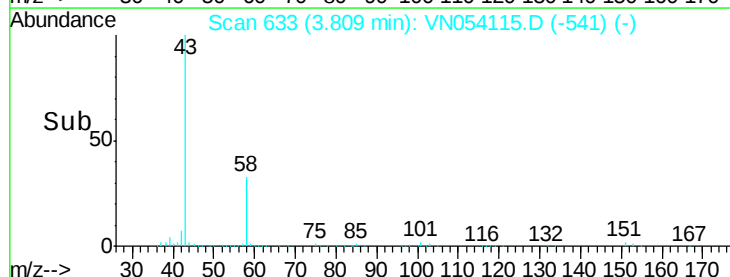
43 100

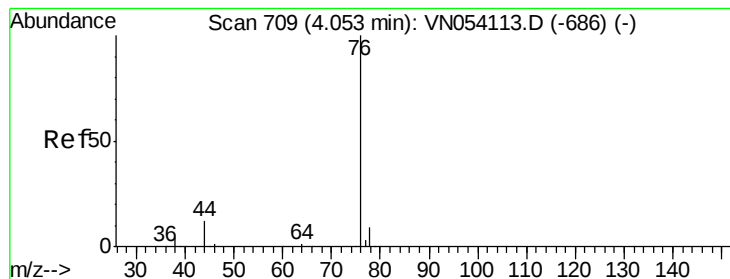
58 32.9 26.5 39.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#17

Carbon Disulfide

Concen: 130.040 ug/l

RT: 4.05 min Scan# 708

Delta R.T. -0.00 min

Lab File: VN054115.D

Acq: 6 Mar 2019 12:22

Instrument :

MSVOA_N

ClientSampled :

VSTDIC150

Tot Ion: 76 Resp: 2817069

Ion Ratio Lower Upper

76 100

78 9.0

7.3

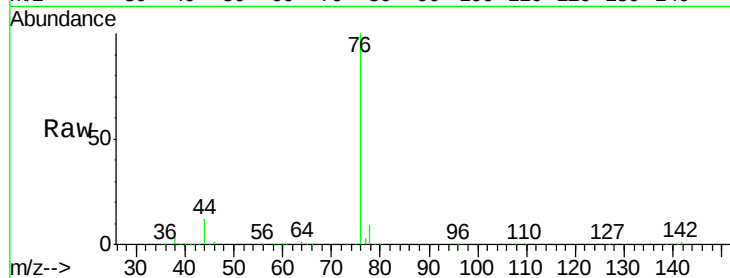
10.9

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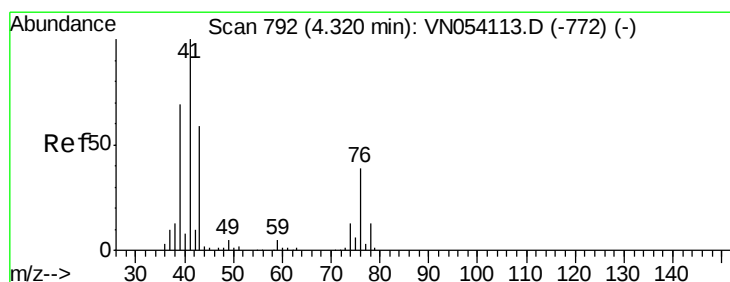
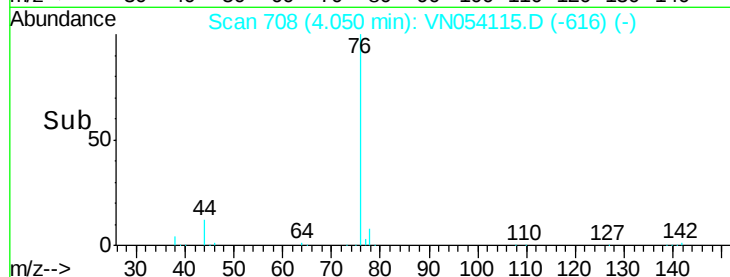
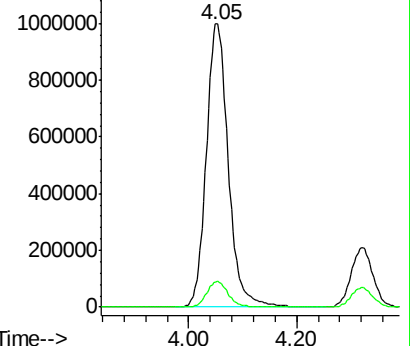
MMDadoda

3/7/2019 11:38:25 AM



Abundance Ion 75.90 (75.60 to 76.60): VNO

Ion 77.90 (77.60 to 78.60): VNO



#18

Methyl Acetate

Concen: 139.014 ug/l

RT: 4.32 min Scan# 792

Delta R.T. 0.00 min

Lab File: VN054115.D

Acq: 6 Mar 2019 12:22

Tgt Ion: 43 Resp: 905868

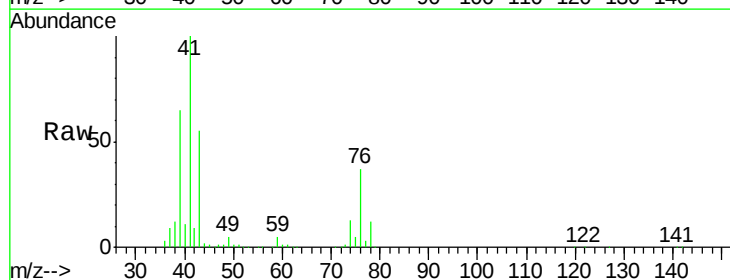
Ion Ratio Lower Upper

43 100

74 22.7

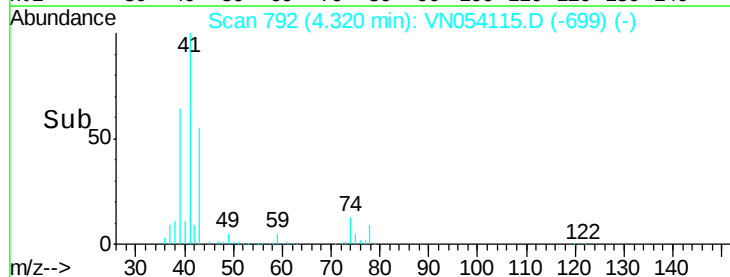
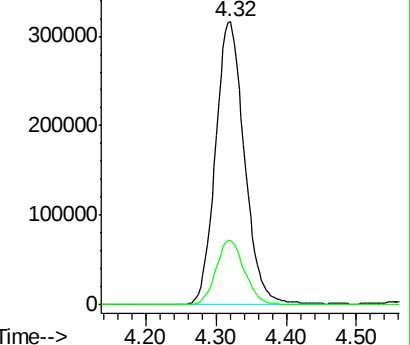
18.2

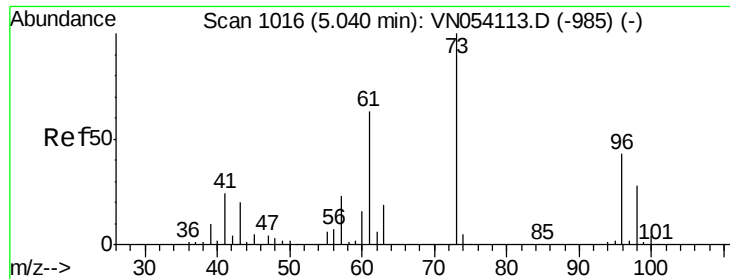
27.2



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 74.00 (73.70 to 74.70): VNO





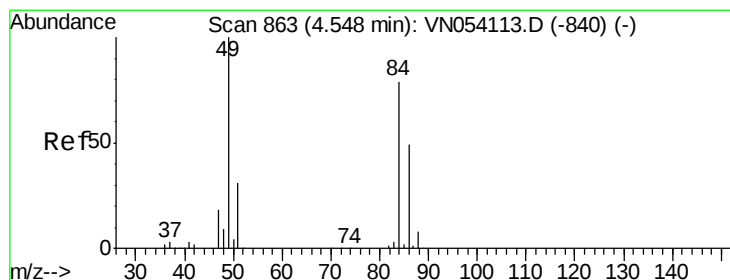
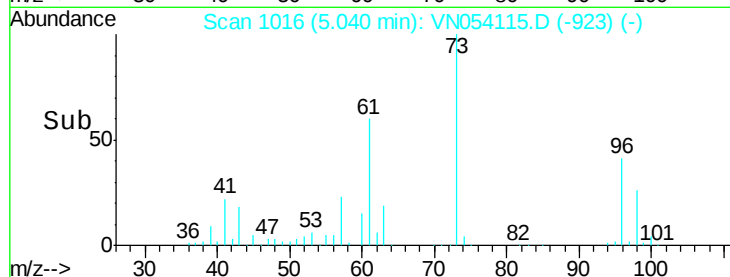
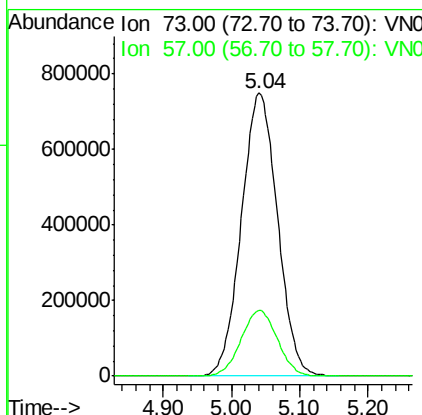
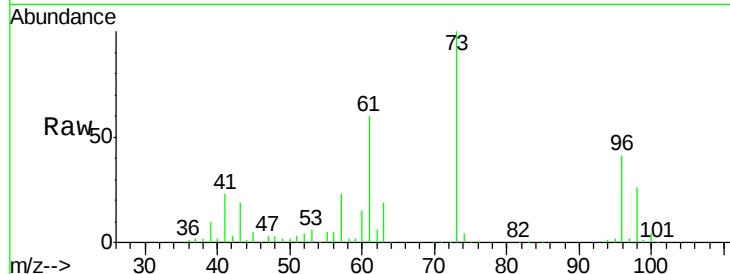
#19
Methvl tert-butvl Ether
Concen: 147.761 ug/l
RT: 5.04 min Scan# 1016
Delta R.T. 0.00 min
Lab File: VN054115.D
Acq: 6 Mar 2019 12:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion: 73 Resp: 2754160
Ion Ratio Lower Upper
73 100
57 23.1 18.2 27.4

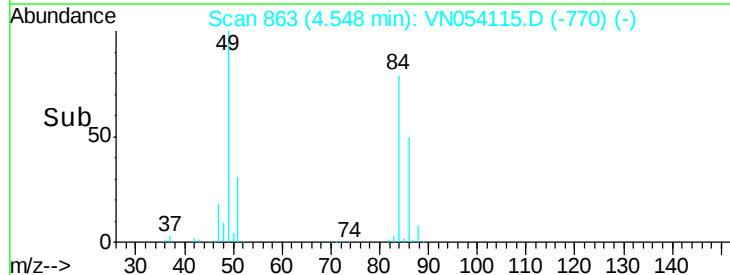
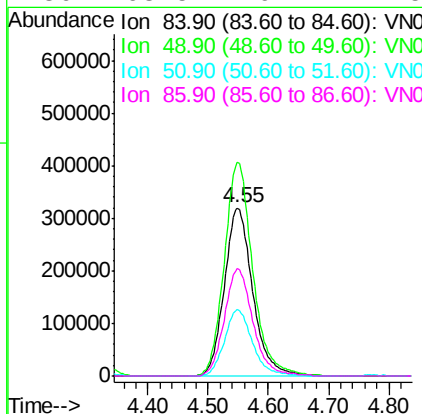
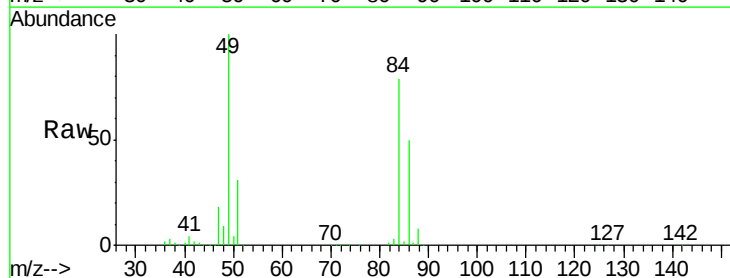
Manual Integrations
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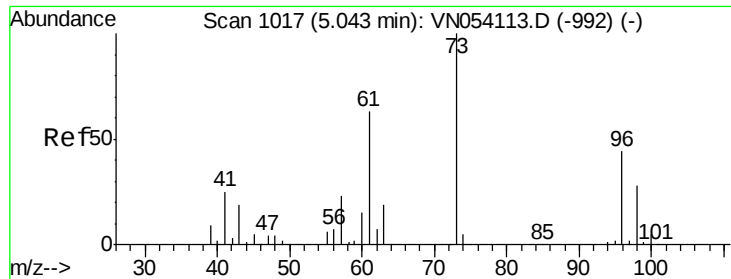
MMDadoda
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#20
Methylene Chloride
Concen: 128.943 ug/l
RT: 4.55 min Scan# 863
Delta R.T. 0.00 min
Lab File: VN054115.D
Acq: 6 Mar 2019 12:22

Tgt Ion: 84 Resp: 1047273
Ion Ratio Lower Upper
84 100
49 126.9 101.8 152.8
51 39.3 31.1 46.7
86 63.5 49.7 74.5





#21

trans-1,2-Dichloroethene

Concen: 135.203 ug/l

RT: 5.04 min Scan# 1016

Delta R.T. -0.00 min

Lab File: VN054115.D

Acq: 6 Mar 2019 12:22

Instrument :

MSVOA_N

ClientSampled :

VSTDIC150

Tot Ion: 96 Resp: 985779

Ion Ratio Lower Upper

96 100

61 145.3 114.8 172.2

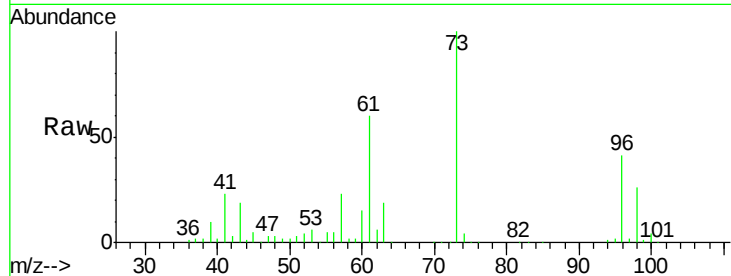
98 64.1 51.4 77.0

Manual Integrations

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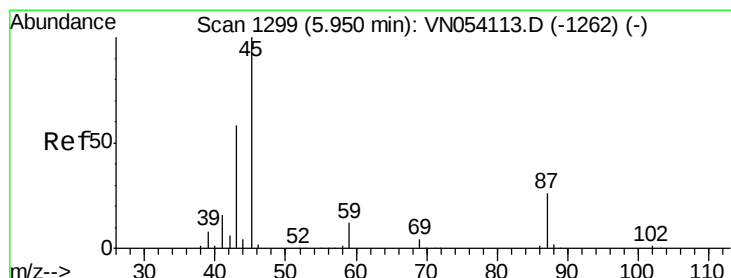
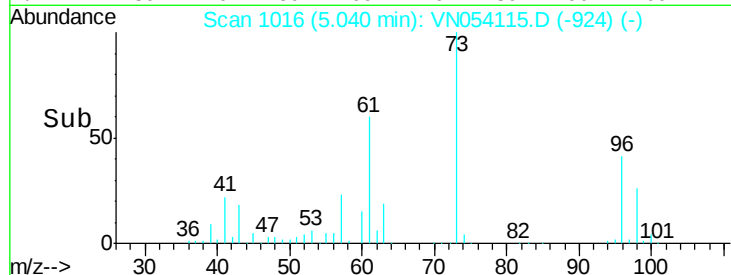
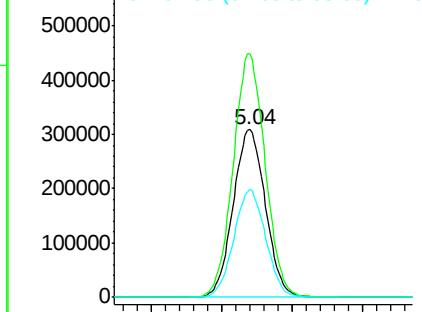


Abundance

Ion 95.90 (95.60 to 96.60): VNO

Ion 60.90 (60.60 to 61.60): VNO

Ion 97.90 (97.60 to 98.60): VNO



#22

Diisopropyl ether

Concen: 150.519 ug/l

RT: 5.95 min Scan# 1298

Delta R.T. -0.00 min

Lab File: VN054115.D

Acq: 6 Mar 2019 12:22

Tgt Ion: 45 Resp: 3509596

Ion Ratio Lower Upper

45 100

43 56.9 46.2 69.4

87 25.4 20.6 31.0

59 11.4 9.4 14.0

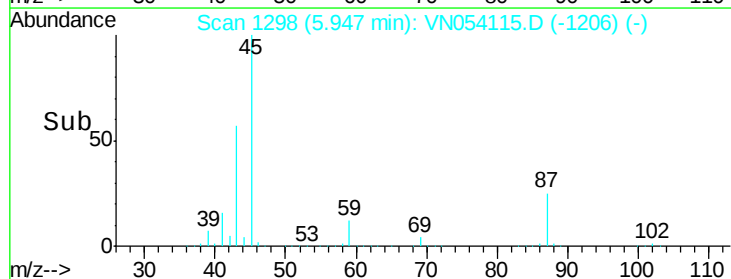
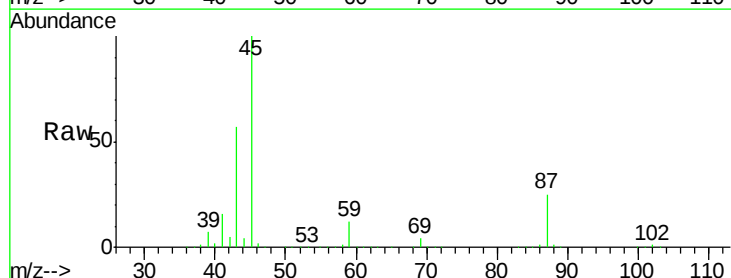
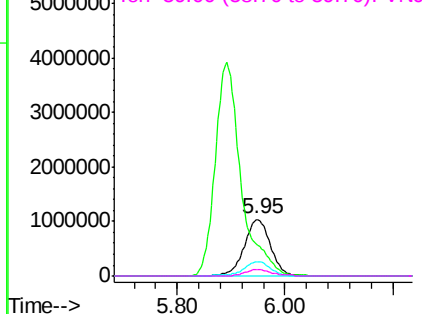
Abundance

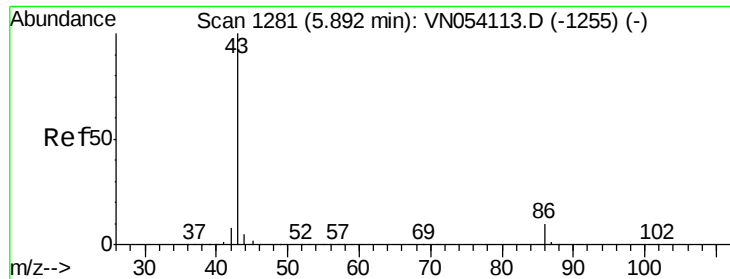
Ion 45.00 (44.70 to 45.70): VNO

Ion 43.00 (42.70 to 43.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

Ion 59.00 (58.70 to 59.70): VNO





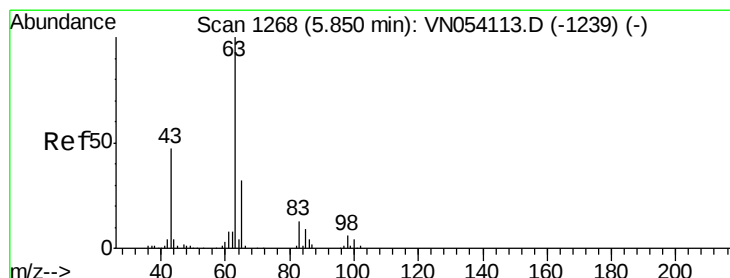
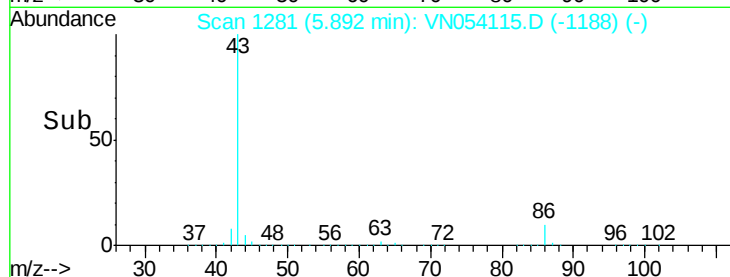
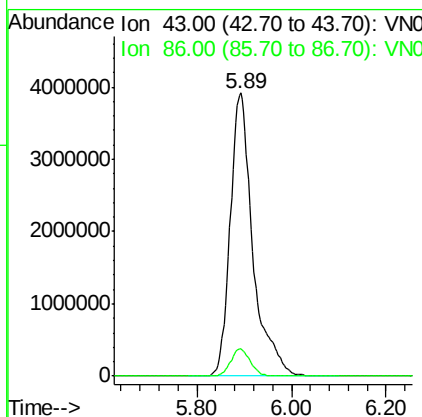
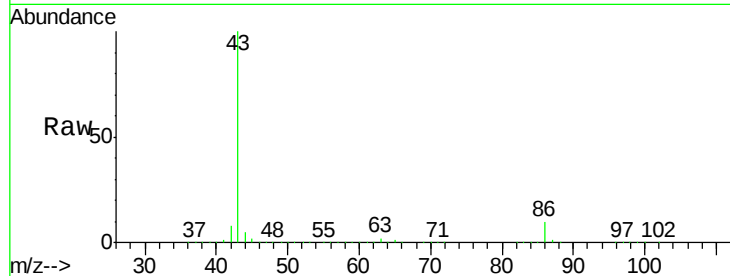
#23
 Vinyl Acetate
 Concen: 786.995 ug/l
 RT: 5.89 min Scan# 1281
 Delta R.T. 0.00 min
 Lab File: VN054115.D
 Acq: 6 Mar 2019 12:22

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC150

Tot Ion: 43 Resp:13034762
 Ion Ratio Lower Upper
 43 100
 86 9.6 7.8 11.8

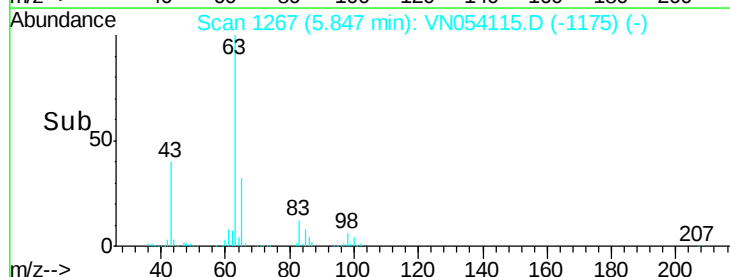
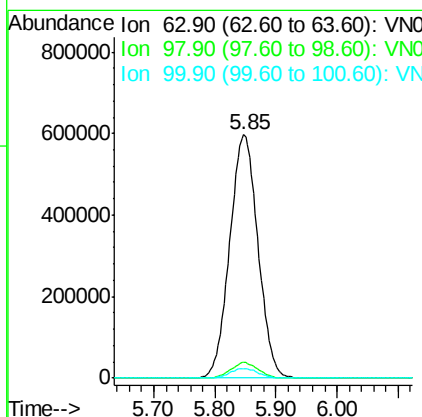
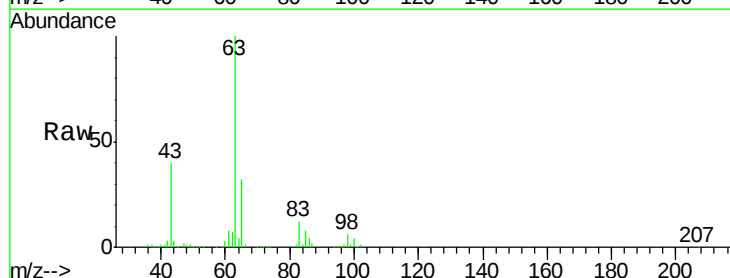
Manual Integrations
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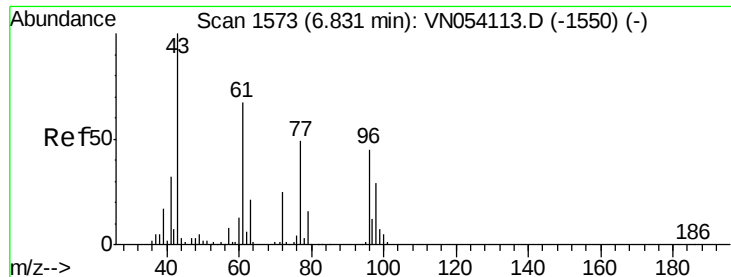
MMDadoda
 3/7/2019 11:38:25 AM



#24
 1,1-Dichloroethane
 Concen: 137.430 ug/l
 RT: 5.85 min Scan# 1267
 Delta R.T. -0.00 min
 Lab File: VN054115.D
 Acq: 6 Mar 2019 12:22

Tgt Ion: 63 Resp: 1917183
 Ion Ratio Lower Upper
 63 100
 98 6.4 3.1 9.4
 100 4.1 2.0 6.0





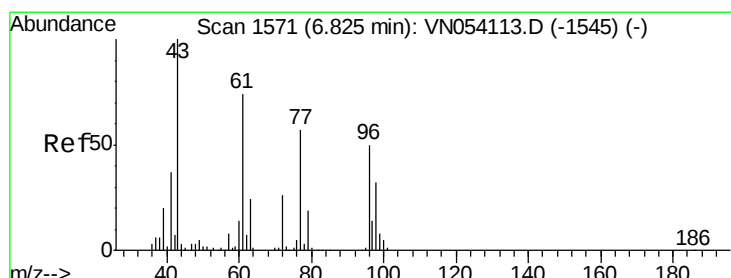
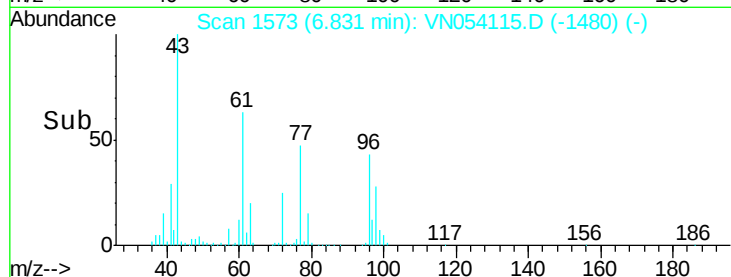
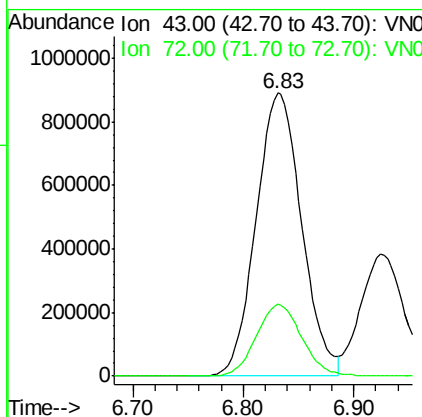
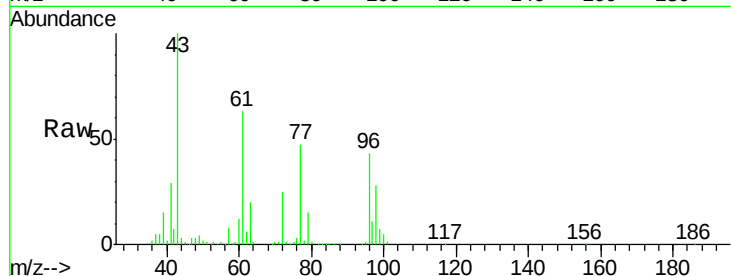
#25
2-Butanone
Concen: 749.983 ug/l
RT: 6.83 min Scan# 1573
Delta R.T. 0.00 min
Lab File: VN054115.D
Acq: 6 Mar 2019 12:22

Instrument :
MSVOA_N
ClientSampled :
VSTDIC150

Tot Ion: 43 Resp: 2538997
Ion Ratio Lower Upper
43 100
72 25.3 20.2 30.2

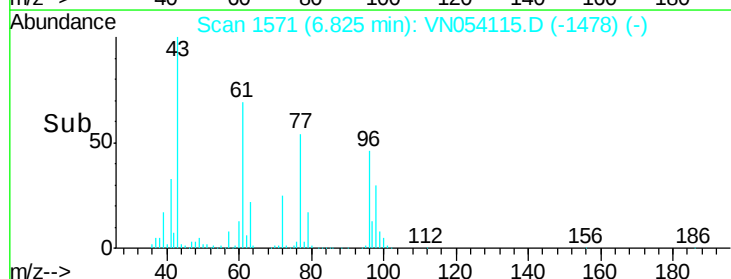
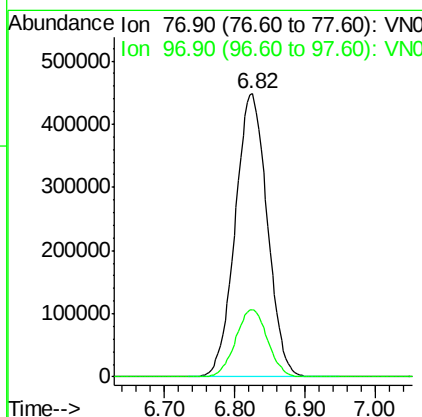
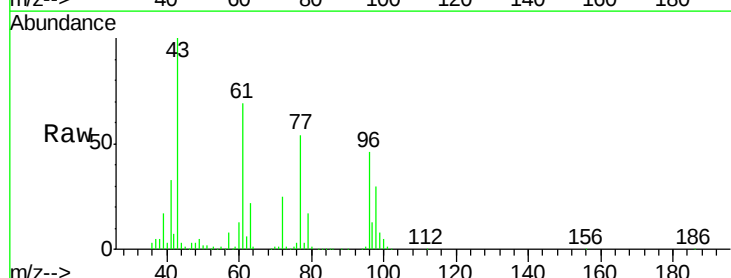
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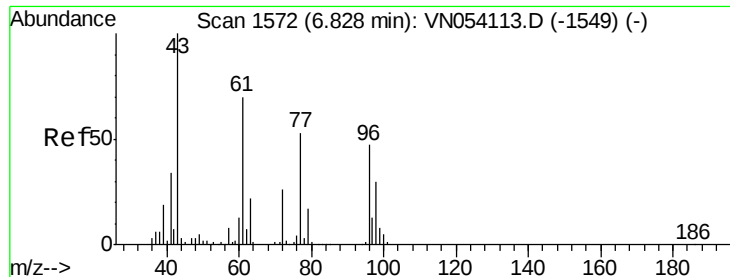
MMDadoda
3/7/2019 11:38:25 AM



#26
2,2-Dichloropropane
Concen: 141.246 ug/l
RT: 6.82 min Scan# 1571
Delta R.T. 0.00 min
Lab File: VN054115.D
Acq: 6 Mar 2019 12:22

Tgt Ion: 77 Resp: 1420214
Ion Ratio Lower Upper
77 100
97 23.7 11.8 35.3





#27

cis-1,2-Dichloroethene

Concen: 139.191 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN054115.D

Acq: 6 Mar 2019 12:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 96 Resp: 1131667

Ion Ratio Lower Upper

96 100

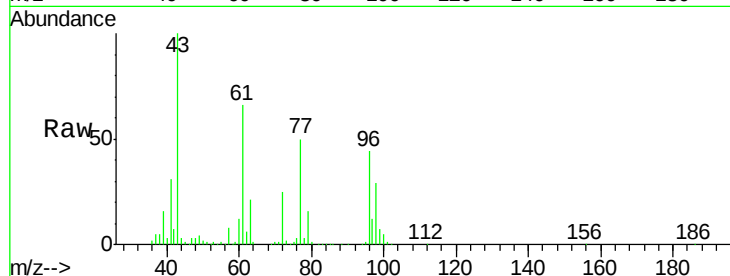
61 149.4 0.0 297.0

98 65.1 0.0 129.4

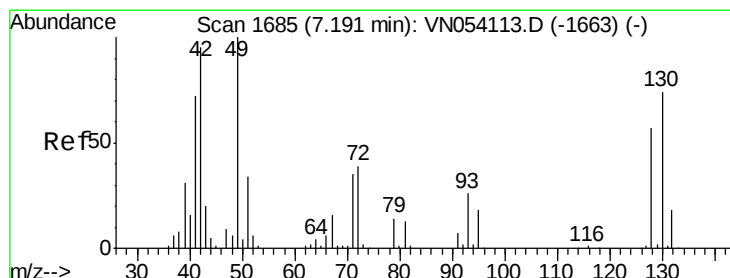
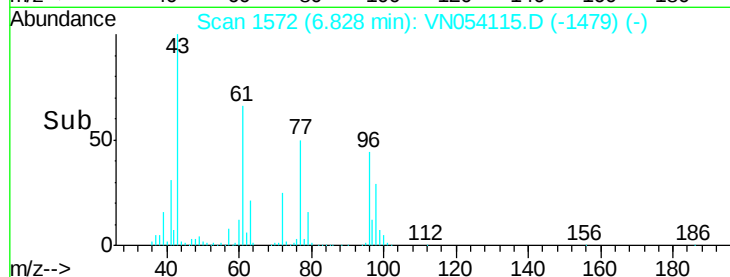
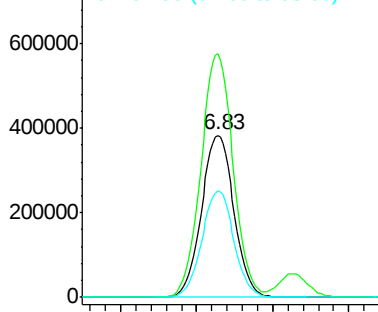
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Abundance Ion 95.90 (95.60 to 96.60): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 97.90 (97.60 to 98.60): VN0



#28

Bromochloromethane

Concen: 137.965 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. 0.00 min

Lab File: VN054115.D

Acq: 6 Mar 2019 12:22

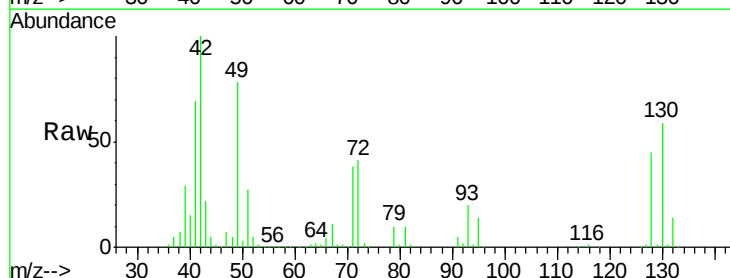
Tgt Ion: 49 Resp: 960637

Ion Ratio Lower Upper

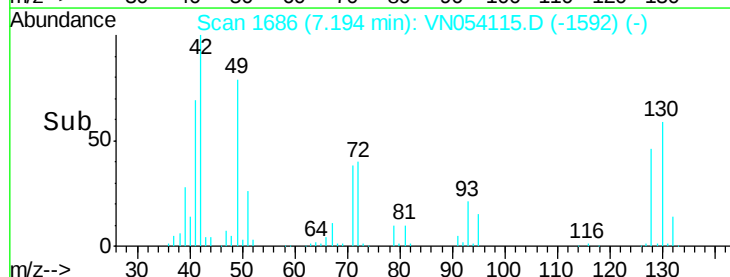
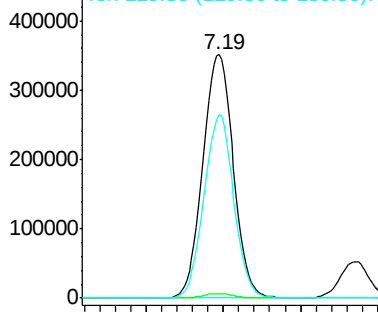
49 100

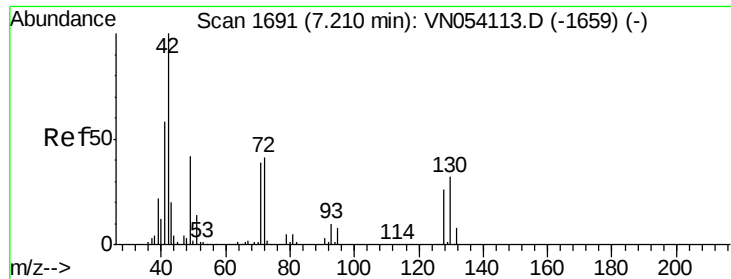
129 1.9 0.0 3.8

130 73.6 59.4 89.2



Abundance Ion 48.90 (48.60 to 49.60): VN0
Ion 128.80 (128.50 to 129.50): V
Ion 129.80 (129.50 to 130.50): V





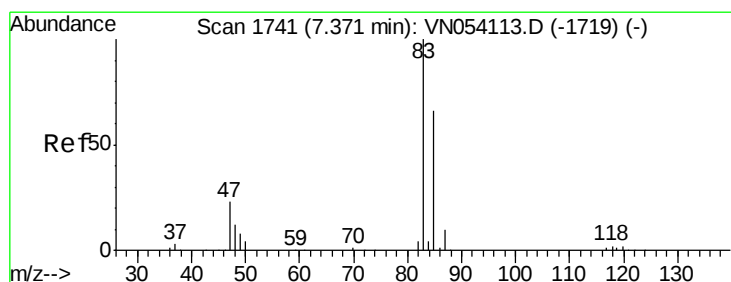
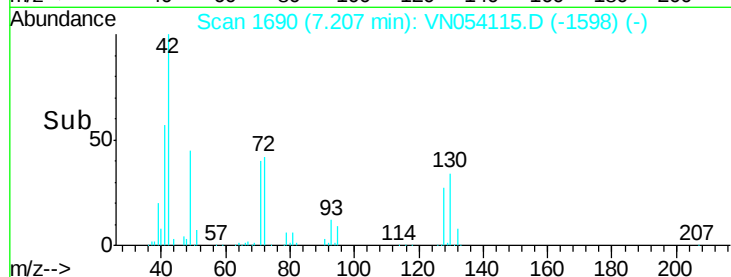
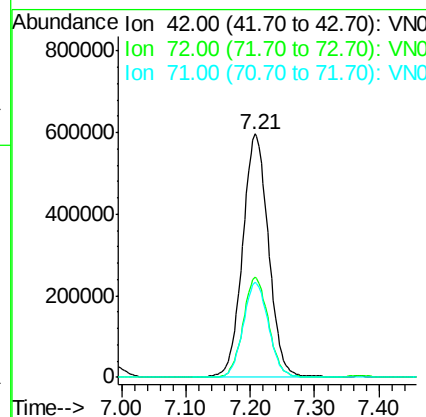
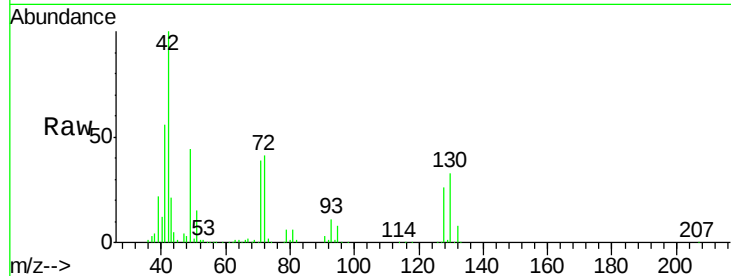
#29
Tetrahydrofuran
Concen: 750.416 ug/l
RT: 7.21 min Scan# 1690
Delta R.T. -0.00 min
Lab File: VN054115.D
Acq: 6 Mar 2019 12:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.2	32.8	49.2
71	38.2	30.5	45.7

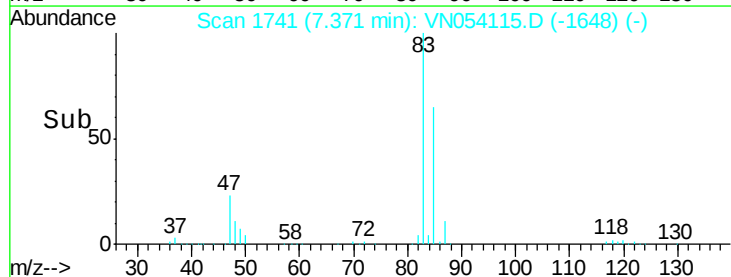
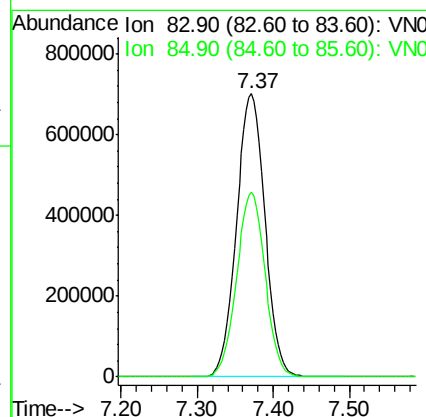
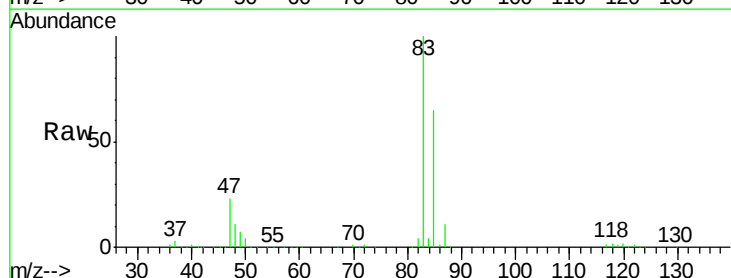
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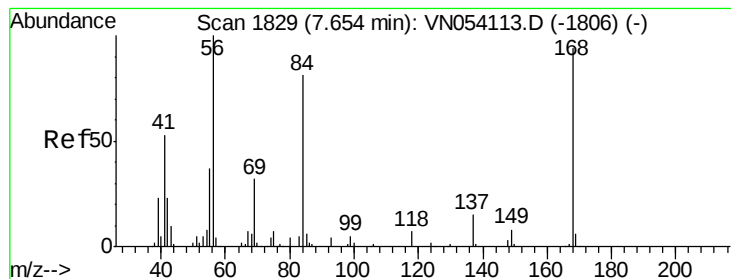
MMDadoda
3/7/2019 11:38:25 AM



#30
Chloroform
Concen: 136.391 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN054115.D
Acq: 6 Mar 2019 12:22

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.1	53.1	79.7





#31

Cvclohexane

Concen: 120.197 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VN054115.D

Acq: 6 Mar 2019 12:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 56 Resp: 1820526

Ion Ratio Lower Upper

56 100

69 30.1 25.5 38.3

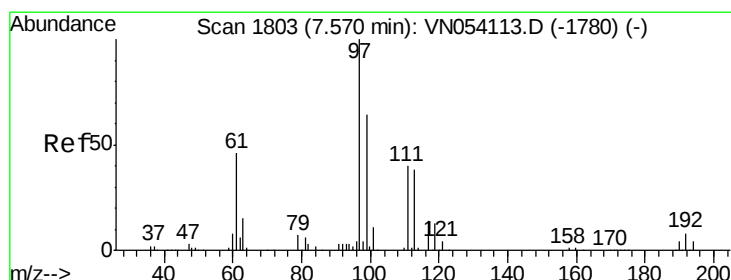
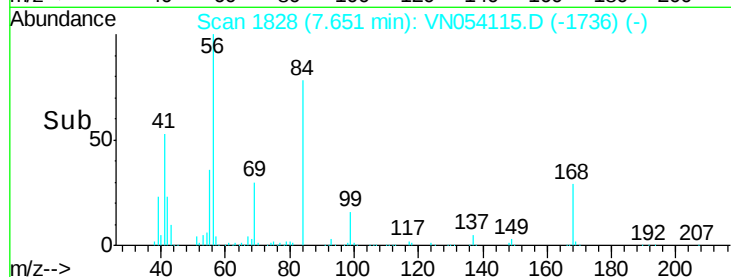
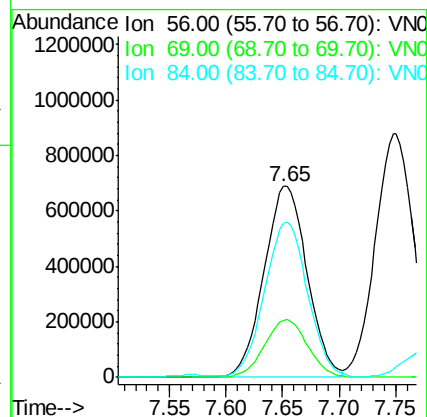
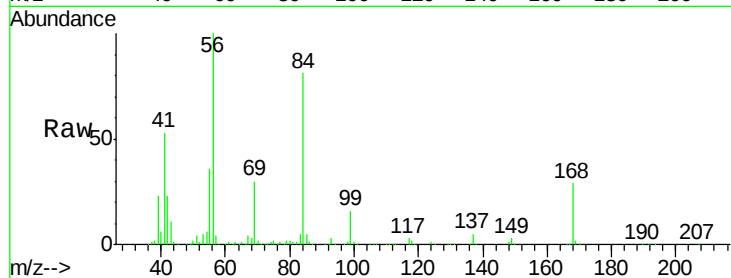
84 79.5 64.5 96.7

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#32

1,1,1-Trichloroethane

Concen: 139.432 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VN054115.D

Acq: 6 Mar 2019 12:22

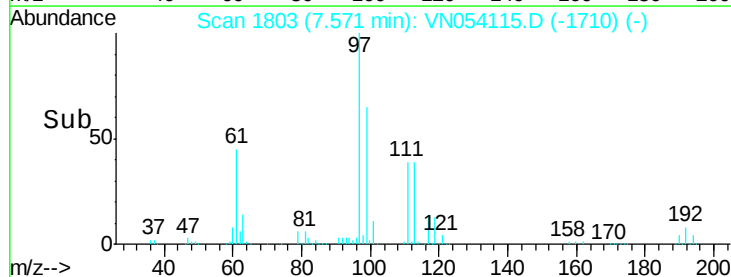
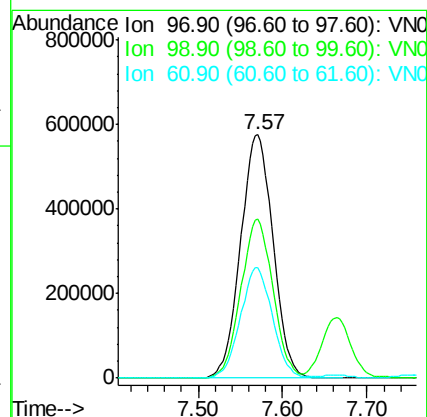
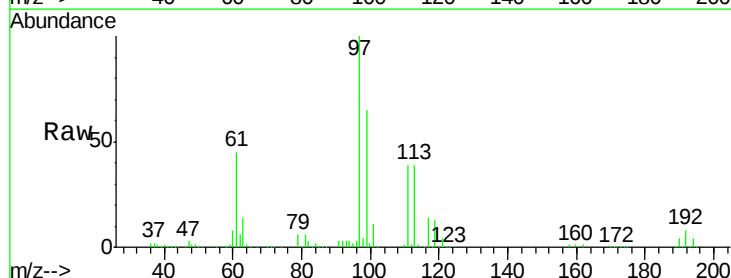
Tgt Ion: 97 Resp: 1545225

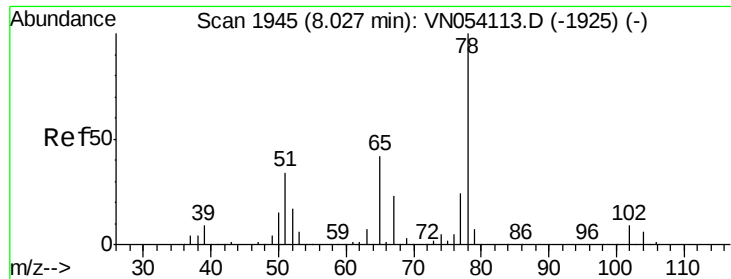
Ion Ratio Lower Upper

97 100

99 64.5 51.2 76.8

61 44.7 37.1 55.7





#33

1,2-Dichloroethane-d4

Concen: 140.732 ug/l

RT: 8.02 min Scan# 1944

Delta R.T. -0.00 min

Lab File: VN054115.D

Acq: 6 Mar 2019 12:22

Instrument :

MSVOA_N

ClientSampled :

VSTDIC150

Tot Ion: 65 Resp: 1162642

Ion Ratio Lower Upper

65 100

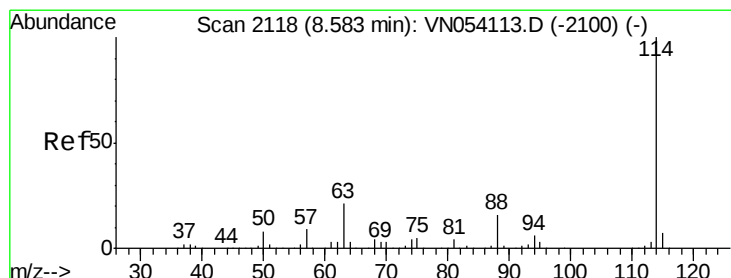
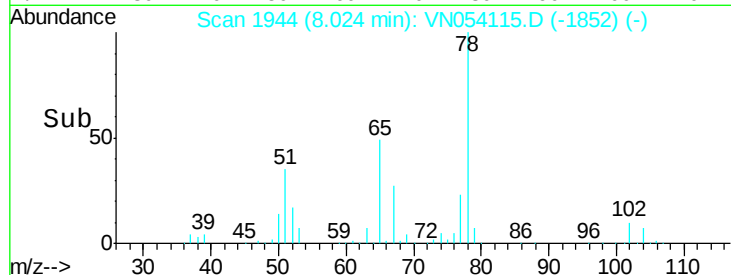
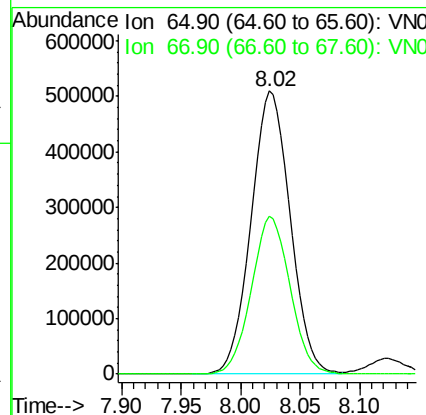
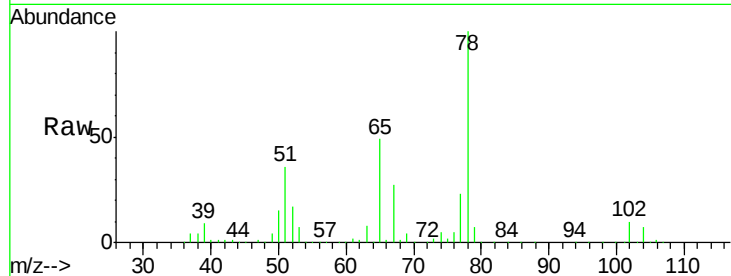
67 55.1 0.0 109.6

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.58 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN054115.D

Acq: 6 Mar 2019 12:22

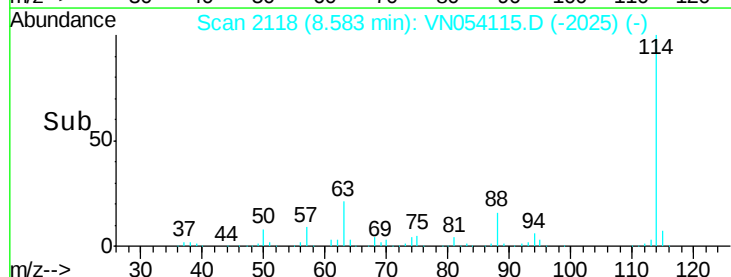
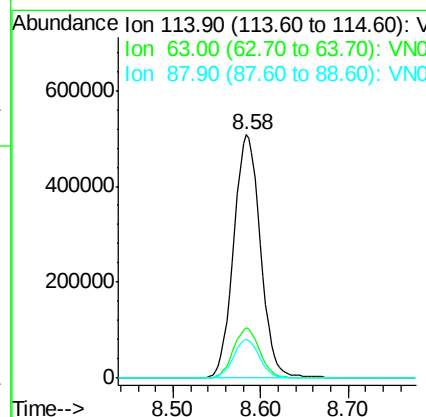
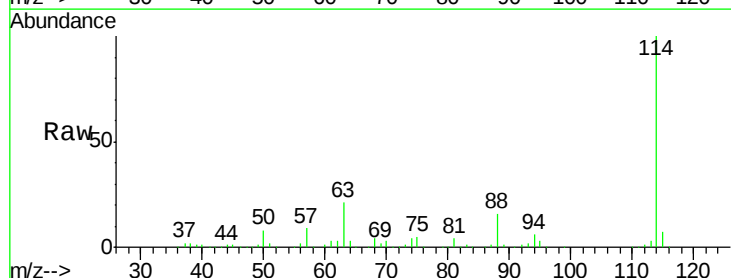
Tgt Ion: 114 Resp: 1080707

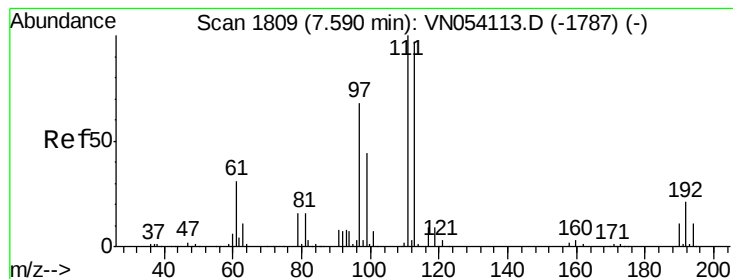
Ion Ratio Lower Upper

114 100

63 20.6 0.0 42.6

88 15.8 0.0 31.8





#35

Dibromofluoromethane

Concen: 144.578 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN054115.D

Acq: 6 Mar 2019 12:22

Instrument :

MSVOA_N

ClientSampled :

VSTDIC150

Tot Ion:113 Resp: 1014795

Ion Ratio Lower Upper

113 100

111 102.5 82.1 123.1

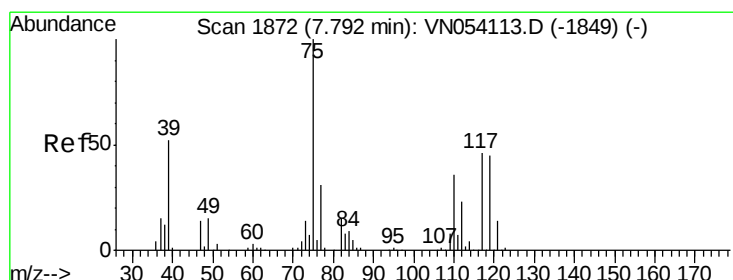
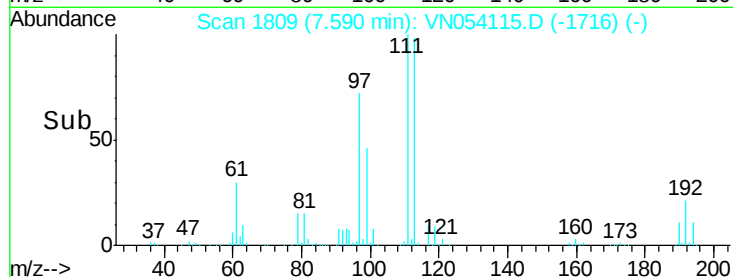
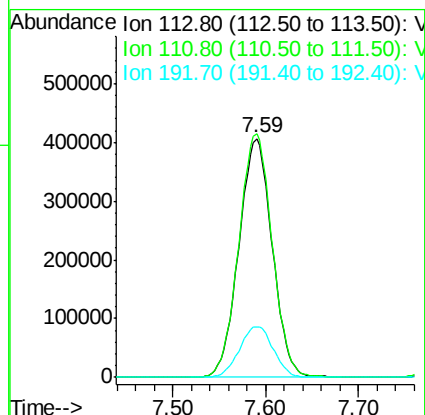
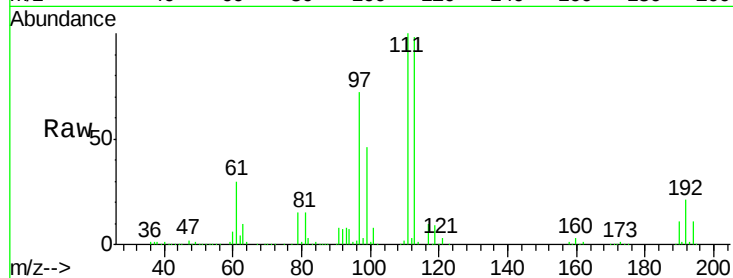
192 21.7 17.4 26.0

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#36

1,1-Dichloropropene

Concen: 142.274 ug/l

RT: 7.79 min Scan# 1872

Delta R.T. 0.00 min

Lab File: VN054115.D

Acq: 6 Mar 2019 12:22

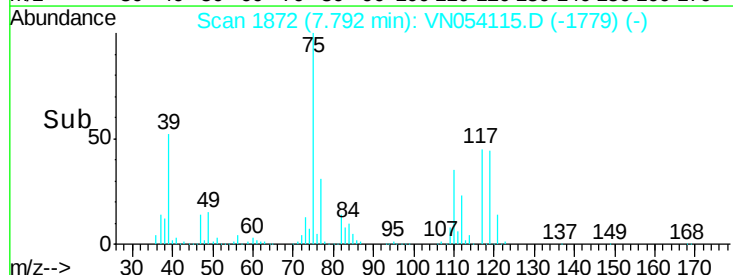
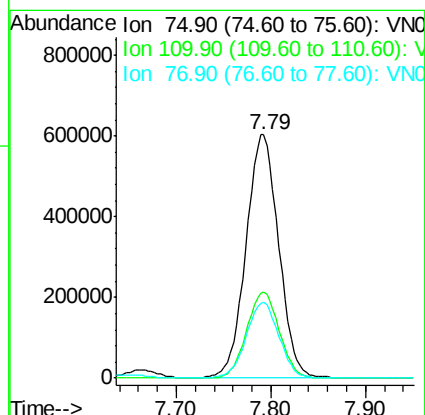
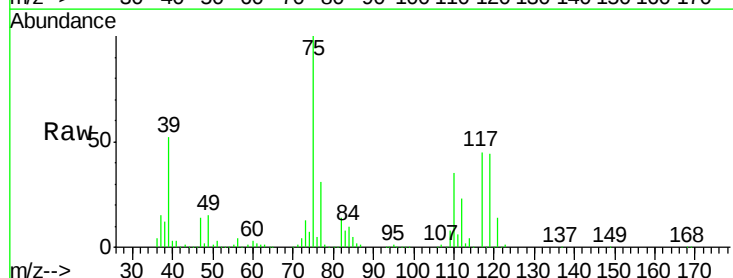
Tgt Ion: 75 Resp: 1443189

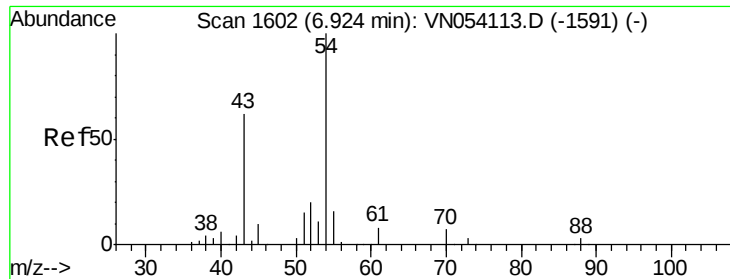
Ion Ratio Lower Upper

75 100

110 35.5 18.0 54.0

77 31.3 25.3 37.9





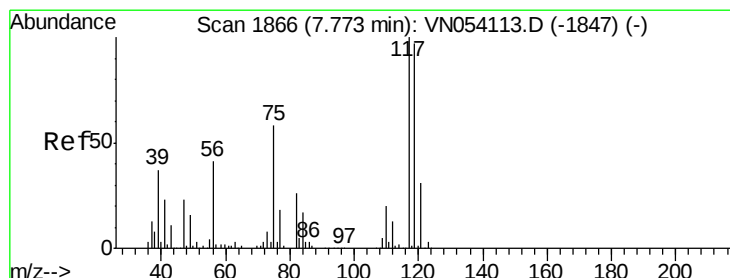
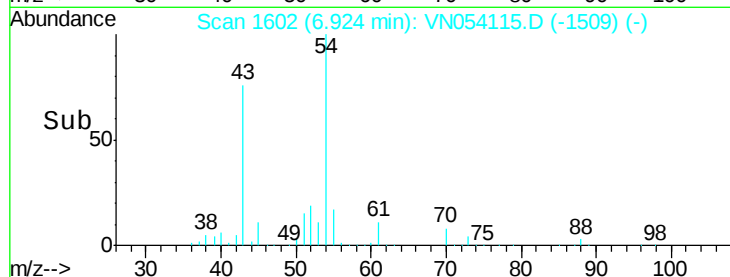
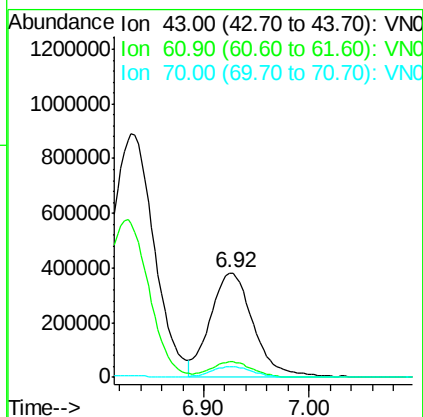
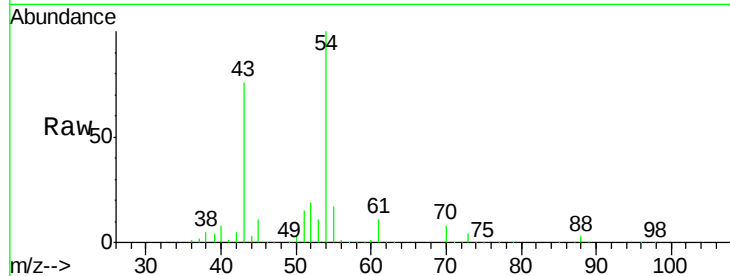
#37
Ethyl Acetate
Concen: 146.525 ug/l
RT: 6.92 min Scan# 1602
Delta R.T. 0.00 min
Lab File: VN054115.D
Acq: 6 Mar 2019 12:22

Instrument :
MSVOA_N
ClientSampled :
VSTDIC150

Tot Ion: 43 Resp: 1065598
Ion Ratio Lower Upper
43 100
61 14.4 11.1 16.7
70 10.1 7.6 11.4

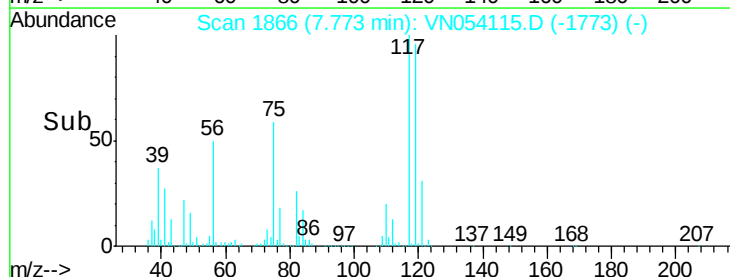
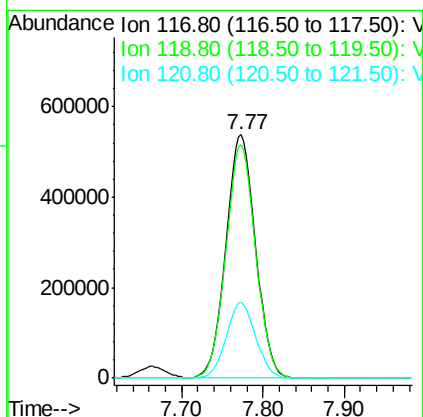
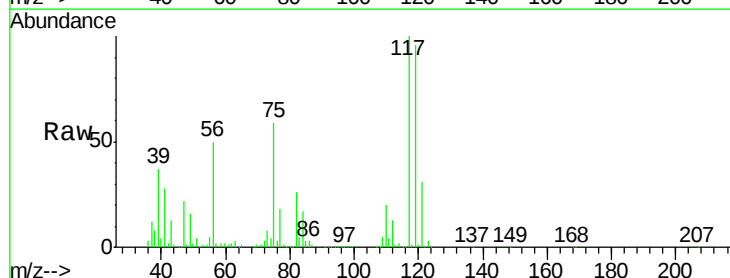
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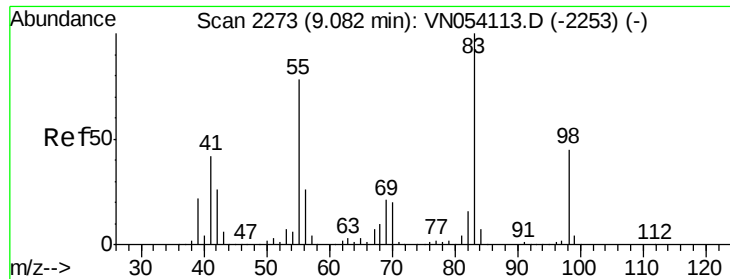
MMDadoda
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#38
Carbon Tetrachloride
Concen: 141.266 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN054115.D
Acq: 6 Mar 2019 12:22

Tgt Ion: 117 Resp: 1367976
Ion Ratio Lower Upper
117 100
119 95.8 77.0 115.6
121 31.0 24.3 36.5





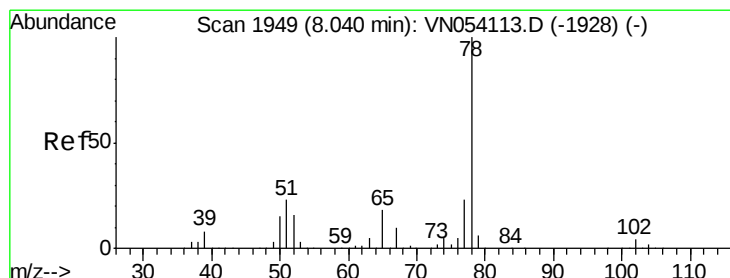
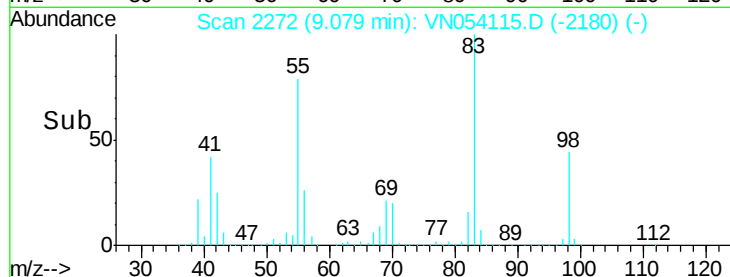
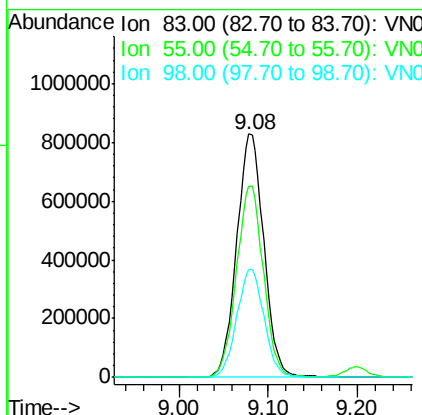
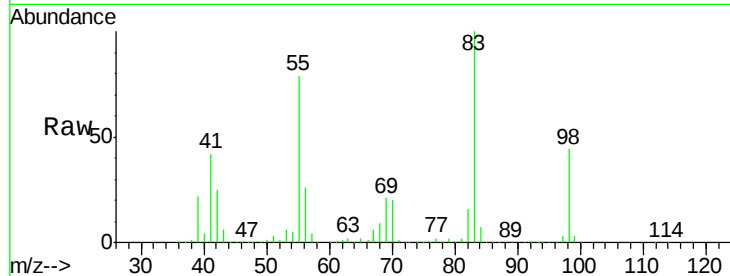
#39
Methylvlcyclohexane
Concen: 149.777 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VN054115.D
Acq: 6 Mar 2019 12:22

Instrument :
MSVOA_N
ClientSampled :
VSTDIC150

Tot Ion: 83 Resp: 1753393
Ion Ratio Lower Upper
83 100
55 78.7 62.1 93.1
98 44.4 36.0 54.0

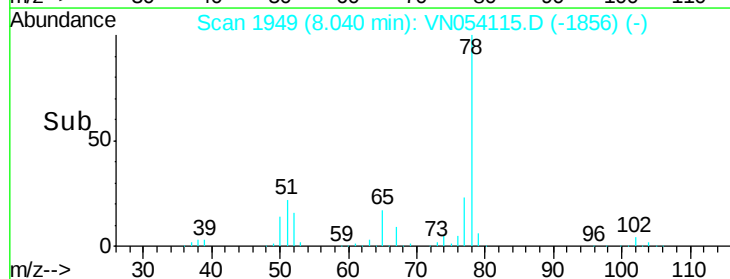
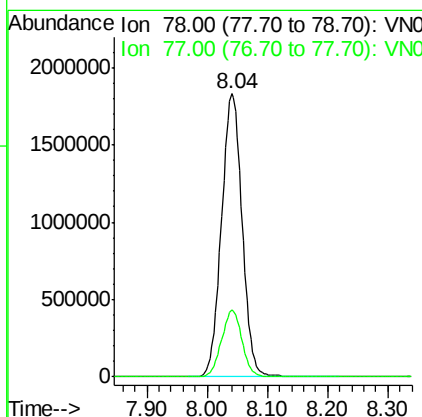
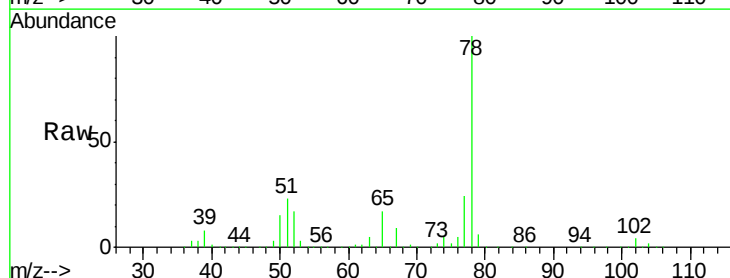
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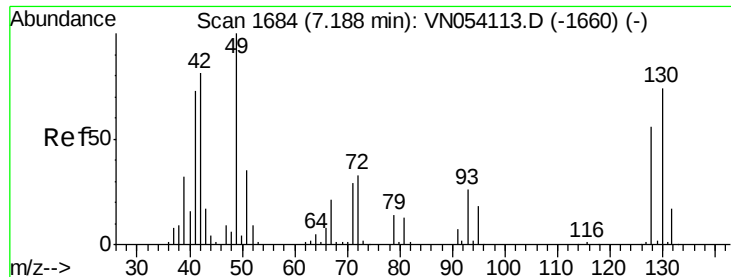
MMDadoda
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#40
Benzene
Concen: 144.245 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. 0.00 min
Lab File: VN054115.D
Acq: 6 Mar 2019 12:22

Tgt Ion: 78 Resp: 4328862
Ion Ratio Lower Upper
78 100
77 23.6 18.7 28.1





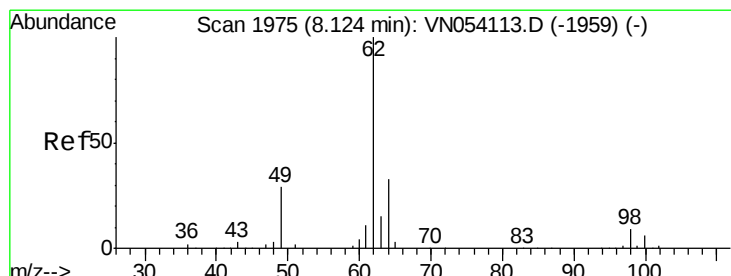
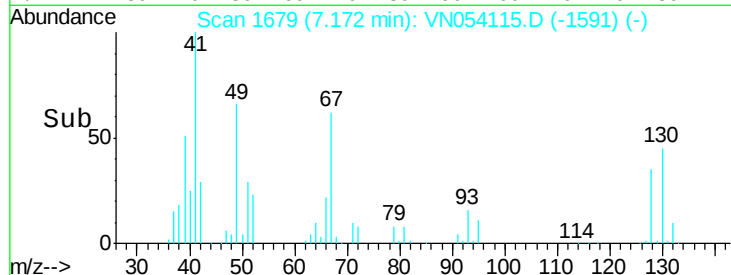
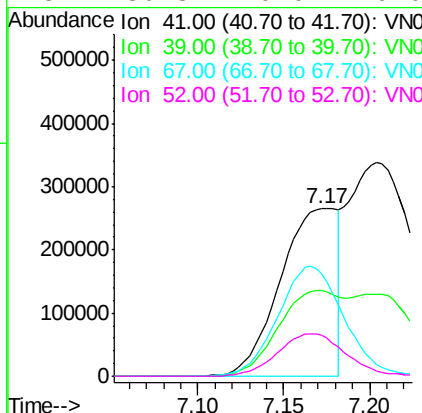
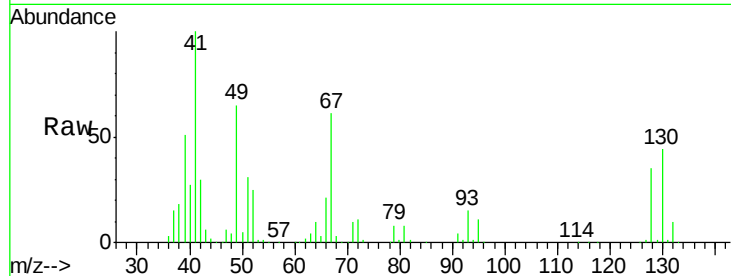
#41
Methacrylonitrile
Concen: 138.417 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. -0.02 min
Lab File: VN054115.D
Acq: 6 Mar 2019 12:22

Instrument :
MSVOA_N
ClientSampled :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
41	100		
39	59.2	0.0	0.0#
67	76.1	0.0	0.0#
52	30.3	0.0	0.0#

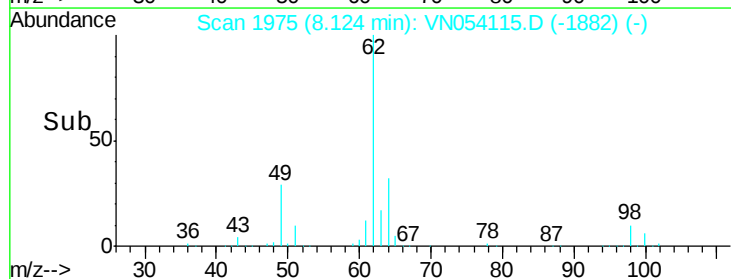
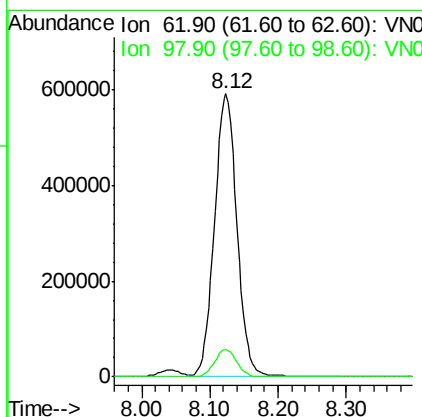
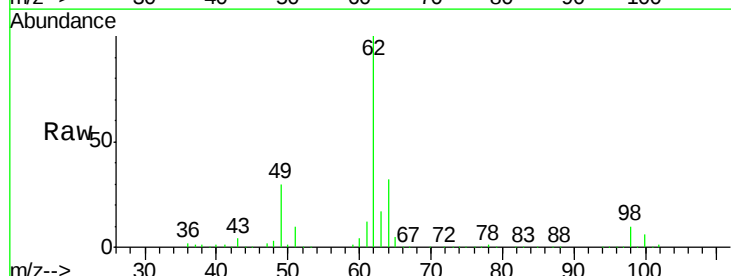
Manual Integrations
APPROVED

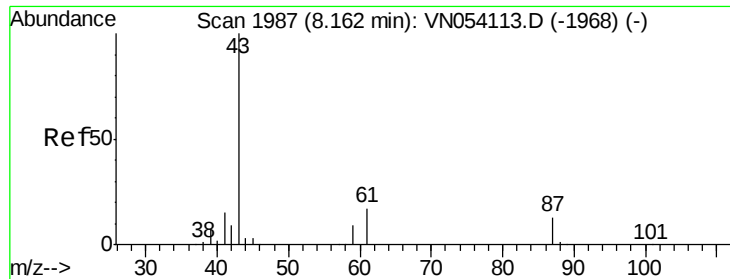
MMDadoda
3/7/2019 11:38:25 AM



#42
1,2-Dichloroethane
Concen: 142.002 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VN054115.D
Acq: 6 Mar 2019 12:22

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.6	0.0	18.6





#43

Isopropyl Acetate

Concen: 166.574 ug/l

RT: 8.16 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN054115.D

Acq: 6 Mar 2019 12:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 43 Resp: 1882803

Ion Ratio Lower Upper

43 100

61 27.7 22.5 33.7

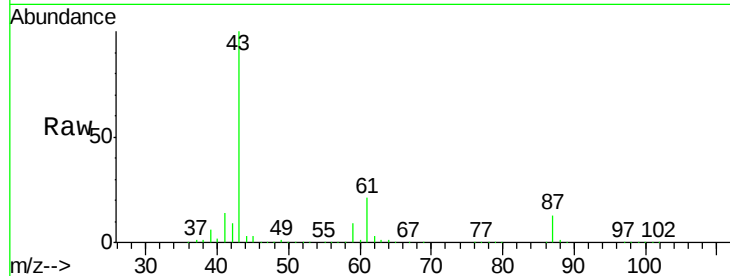
87 12.5 10.1 15.1

Manual Integrations

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MMDadoda

3/7/2019 11:38:25 AM

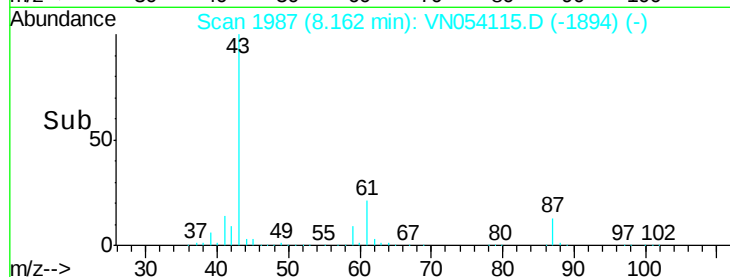


Abundance Ion 43.00 (42.70 to 43.70): VN054115.D (-1968) (-)

Ion 61.00 (60.70 to 61.70): VN054115.D (-1968) (-)

Ion 87.00 (86.70 to 87.70): VN054115.D (-1968) (-)

Time-->



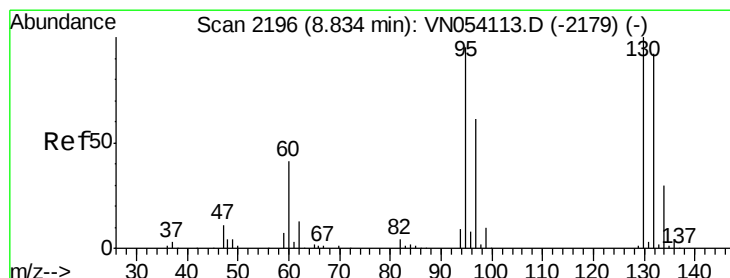
Abundance

Ion 43.00 (42.70 to 43.70): VN054115.D (-1894) (-)

Ion 61.00 (60.70 to 61.70): VN054115.D (-1894) (-)

Ion 87.00 (86.70 to 87.70): VN054115.D (-1894) (-)

Time-->



#44

Trichloroethene

Concen: 139.240 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. 0.00 min

Lab File: VN054115.D

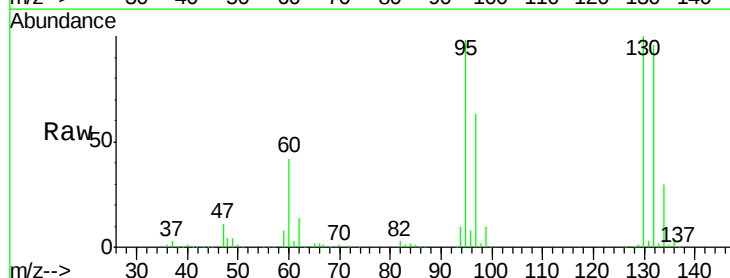
Acq: 6 Mar 2019 12:22

Tgt Ion:130 Resp: 1120482

Ion Ratio Lower Upper

130 100

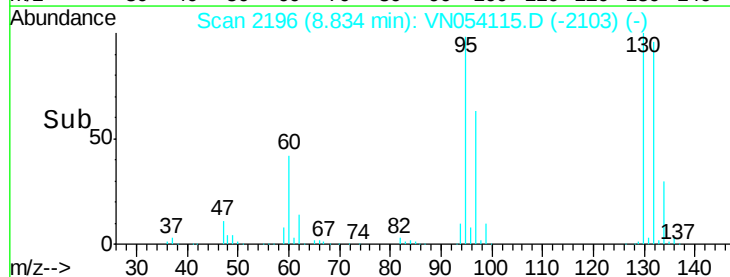
95 98.3 0.0 189.4



Abundance Ion 129.80 (129.50 to 130.50): VN054115.D (-2179) (-)

Ion 94.90 (94.60 to 95.60): VN054115.D (-2179) (-)

Time-->

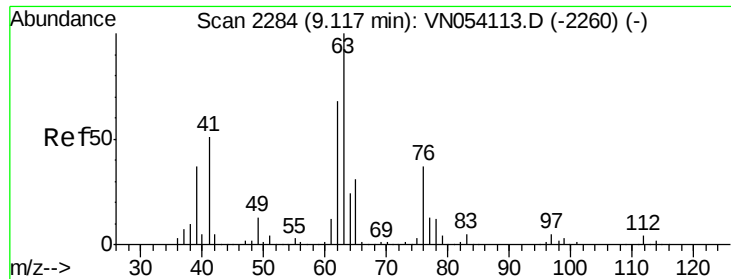


Abundance

Ion 129.80 (129.50 to 130.50): VN054115.D (-2103) (-)

Ion 94.90 (94.60 to 95.60): VN054115.D (-2103) (-)

Time-->



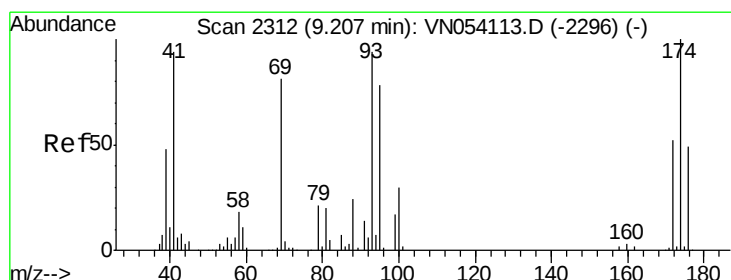
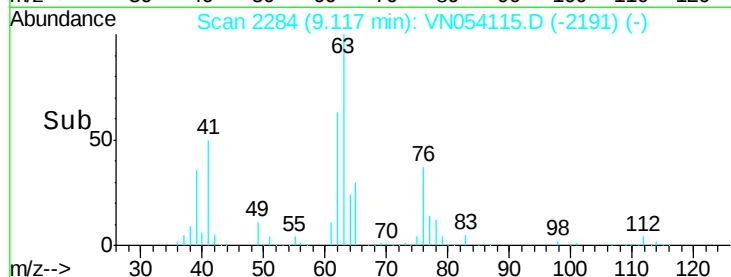
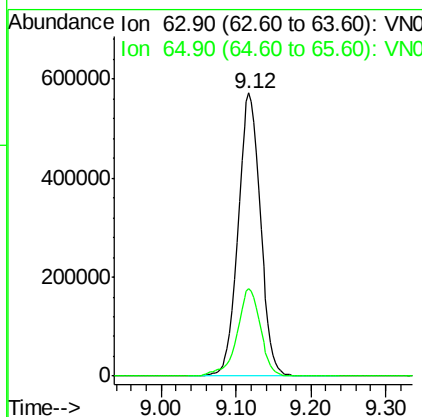
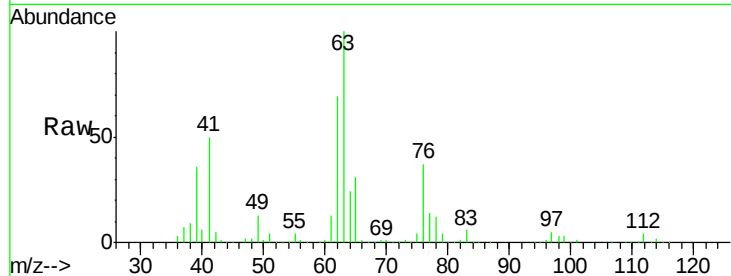
#45
 1,2-Dichloropropane
 Concen: 143.188 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. 0.00 min
 Lab File: VN054115.D
 Acq: 6 Mar 2019 12:22

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion: 63 Resp: 1185283
 Ion Ratio Lower Upper
 63 100
 65 31.1 24.6 36.8

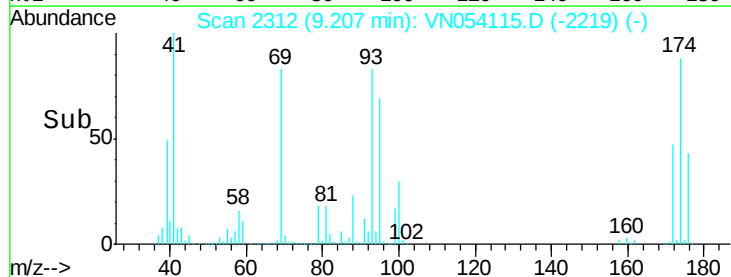
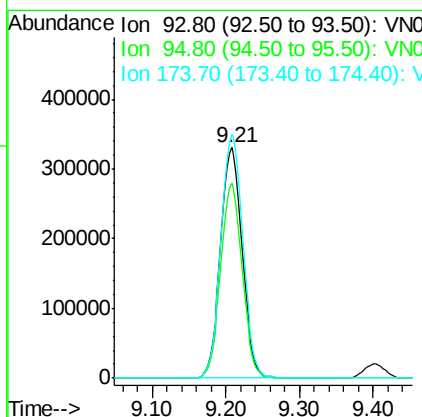
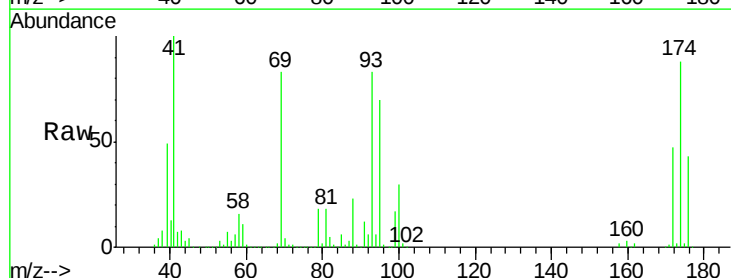
Manual Integrations
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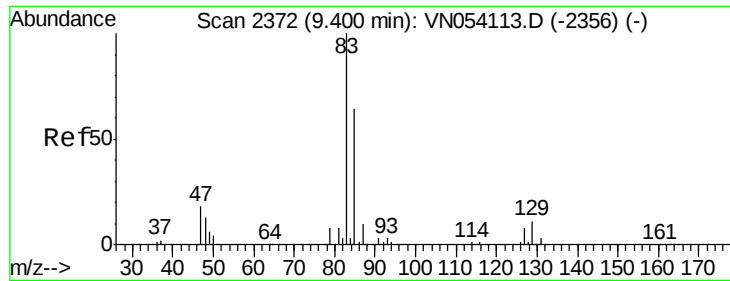
MMDadoda
 3/7/2019 11:38:25 AM



#46
 Dibromomethane
 Concen: 143.729 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. 0.00 min
 Lab File: VN054115.D
 Acq: 6 Mar 2019 12:22

Tgt Ion: 93 Resp: 679165
 Ion Ratio Lower Upper
 93 100
 95 83.7 66.1 99.1
 174 106.9 86.1 129.1





#47

Bromodichloromethane

Concen: 144.995 ug/l

RT: 9.40 min Scan# 2372

Delta R.T. 0.00 min

Lab File: VN054115.D

Acq: 6 Mar 2019 12:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 83 Resp: 1434220

Ion Ratio Lower Upper

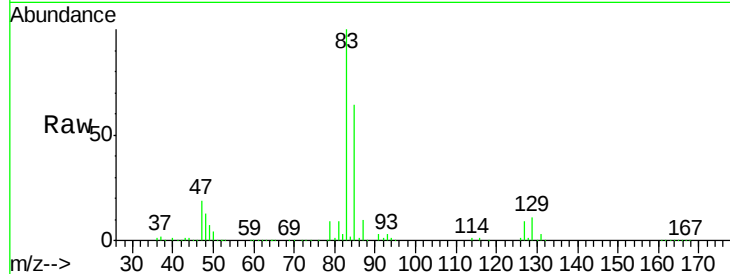
83 100

85 63.9 51.0 76.4

127 8.5 6.5 9.7

Manual Integrations
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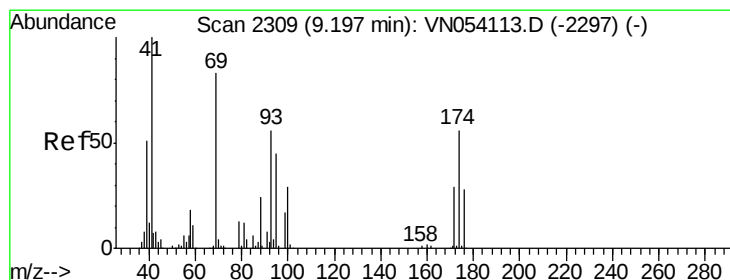
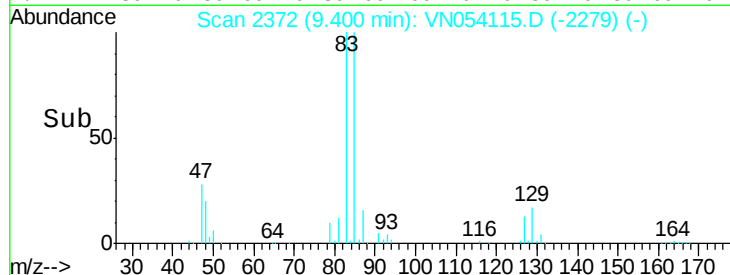
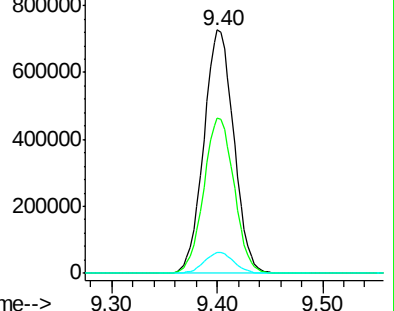
MMDadoda
3/7/2019 11:38:25 AM



Abundance Ion 82.90 (82.60 to 83.60): VN054115.D (-2279) (-)

Ion 84.90 (84.60 to 85.60): VN054115.D (-2279) (-)

Ion 126.80 (126.50 to 127.50): VN054115.D (-2279) (-)



#48

Methyl methacrylate

Concen: 170.794 ug/l

RT: 9.20 min Scan# 2309

Delta R.T. 0.00 min

Lab File: VN054115.D

Acq: 6 Mar 2019 12:22

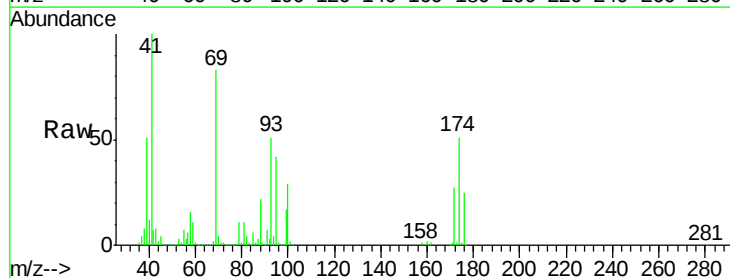
Tgt Ion: 41 Resp: 953307

Ion Ratio Lower Upper

41 100

69 86.4 71.0 106.4

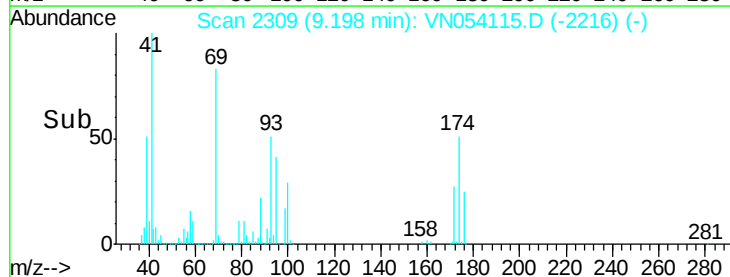
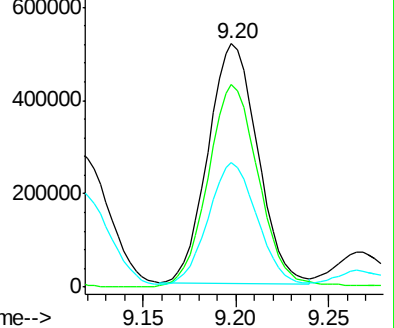
39 52.2 43.7 65.5

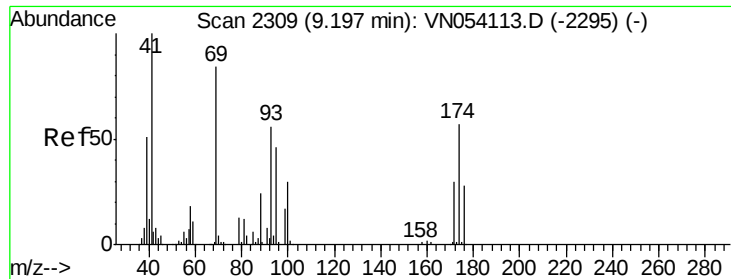


Abundance Ion 41.00 (40.70 to 41.70): VN054115.D (-2216) (-)

Ion 69.00 (68.70 to 69.70): VN054115.D (-2216) (-)

Ion 39.00 (38.70 to 39.70): VN054115.D (-2216) (-)





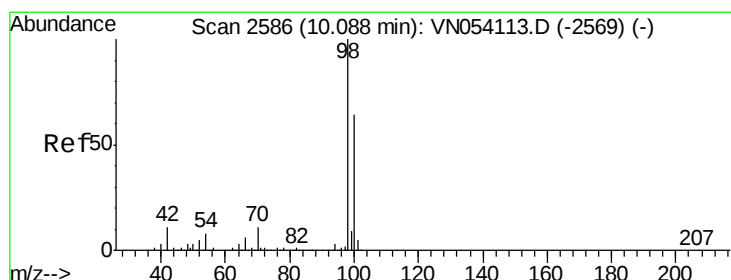
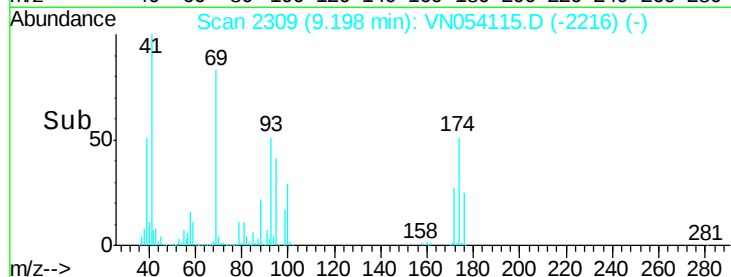
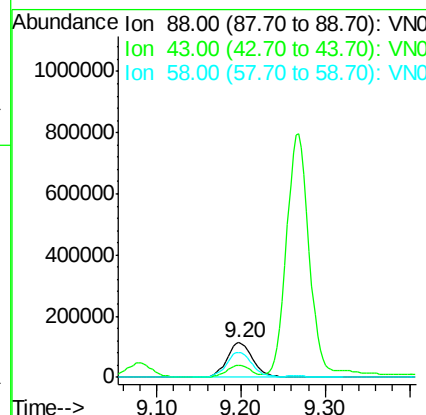
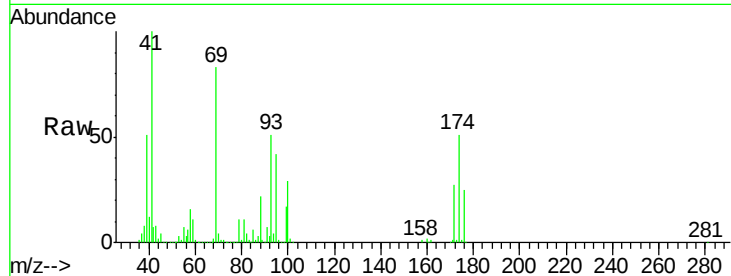
#49
1,4-Dioxane
Concen: 3327.106 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. 0.00 min
Lab File: VN054115.D
Acq: 6 Mar 2019 12:22

Instrument :
MSVOA_N
ClientSampled :
VSTDIC150

Tot Ion	88	Resp	245396
Ion	Ratio	Lower	Upper
88	100		
43	32.0	25.5	38.3
58	70.0	58.3	87.5

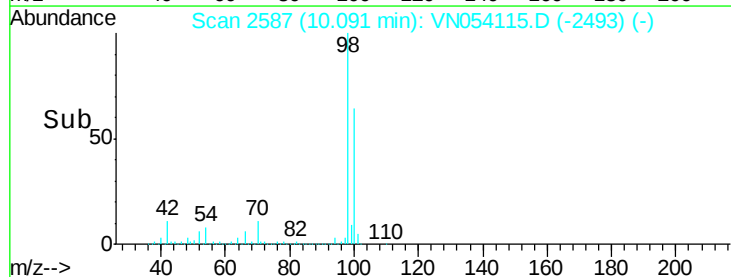
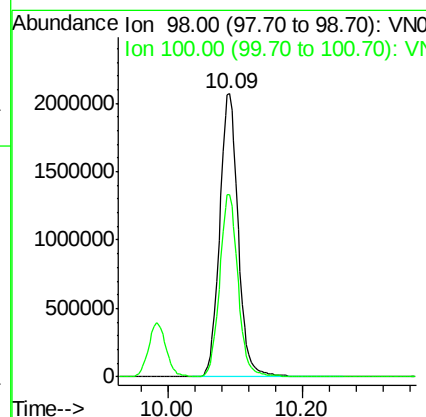
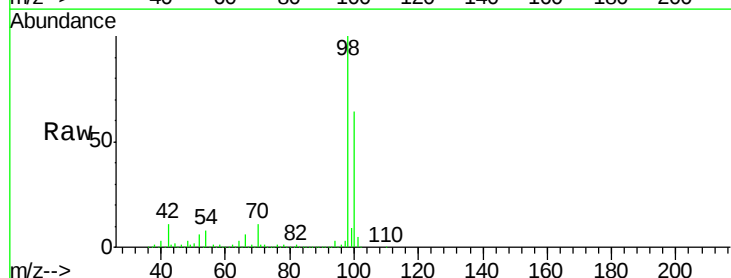
Manual Integrations
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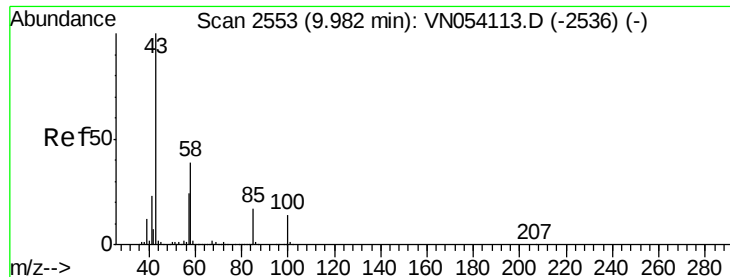
MMDadoda
3/7/2019 11:38:25 AM



#50
Toluene-d8
Concen: 149.087 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN054115.D
Acq: 6 Mar 2019 12:22

Tgt Ion	98	Resp	3973773
Ion	Ratio	Lower	Upper
98	100		
100	64.3	51.7	77.5





#51

4-Methyl-2-Pentanone

Concen: 822.292 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN054115.D

Acq: 6 Mar 2019 12:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 43 Resp: 5325043

Ion Ratio Lower Upper

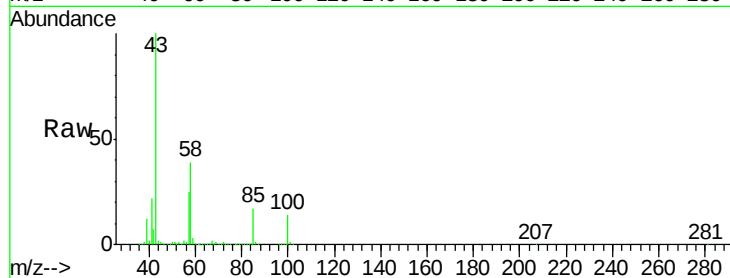
43 100

58 38.6 30.8 46.2

Manual Integrations
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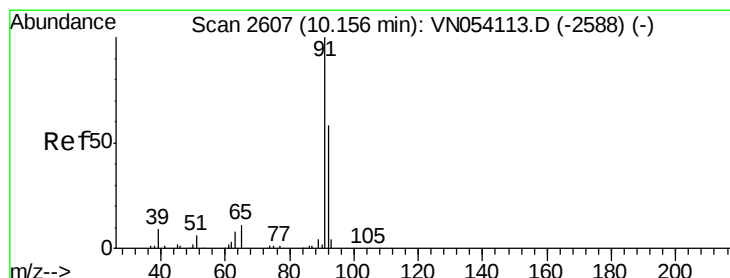
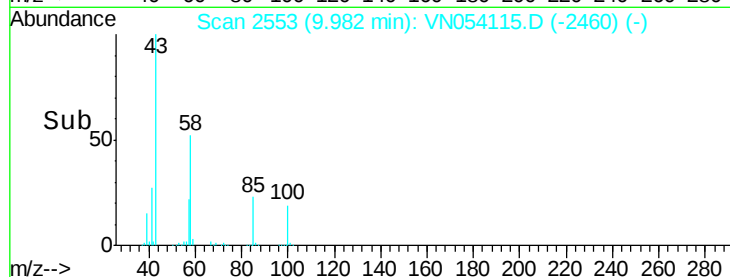
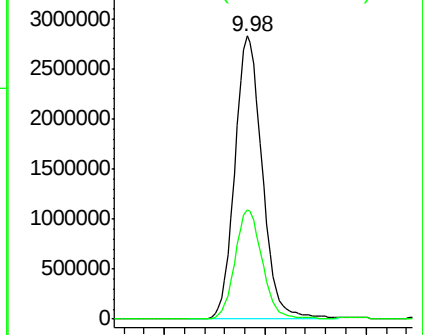
MMDadoda

3/7/2019 11:38:25 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 147.798 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN054115.D

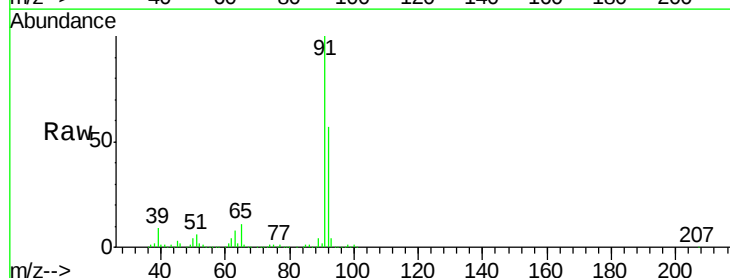
Acq: 6 Mar 2019 12:22

Tgt Ion: 92 Resp: 2627823

Ion Ratio Lower Upper

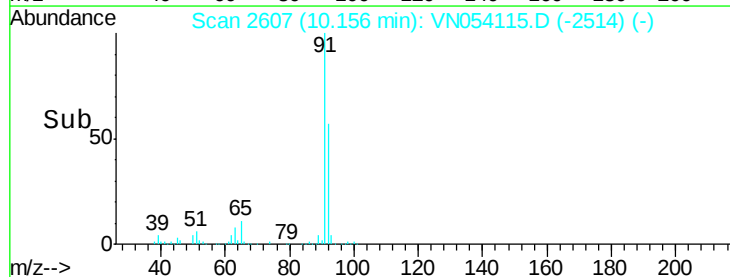
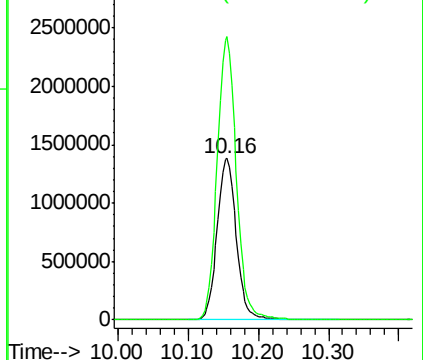
92 100

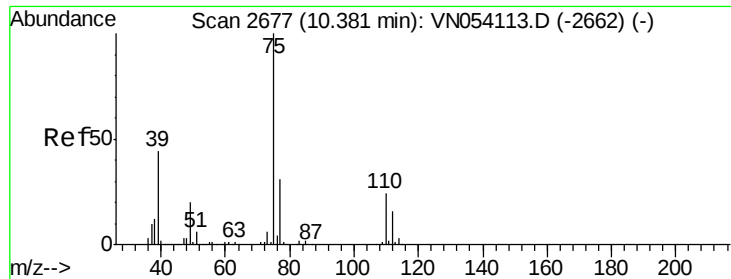
91 174.4 139.0 208.6



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





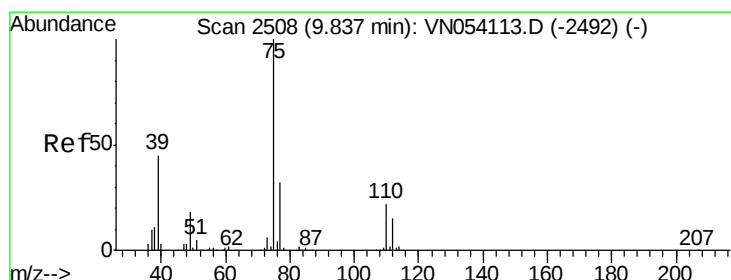
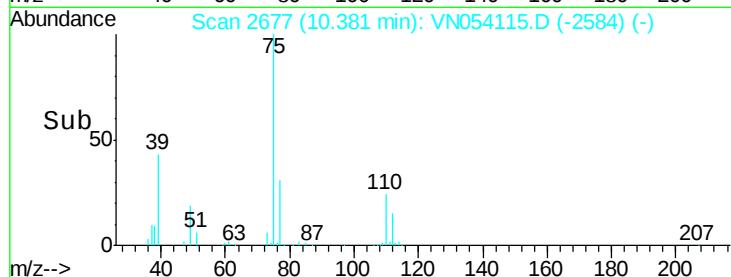
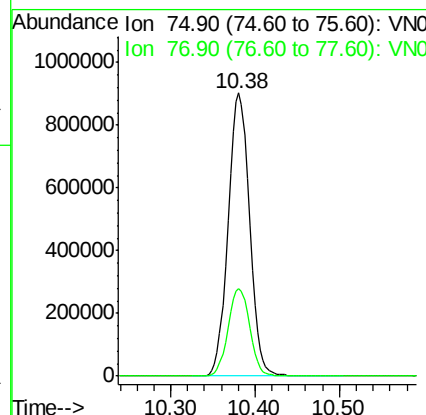
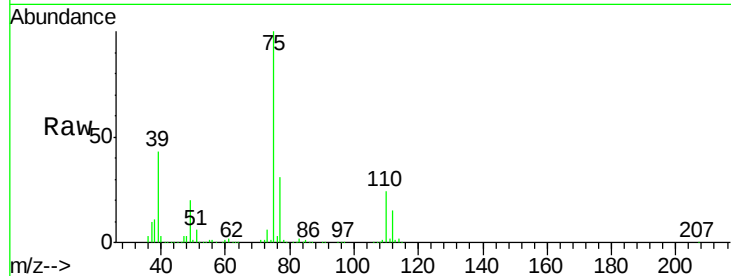
#53
t-1,3-Dichloropropene
Concen: 163.081 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VN054115.D
Acq: 6 Mar 2019 12:22

Instrument :
MSVOA_N
ClientSampled :
VSTDIC150

Tot Ion: 75 Resp: 1591079
Ion Ratio Lower Upper
75 100
77 31.0 24.9 37.3

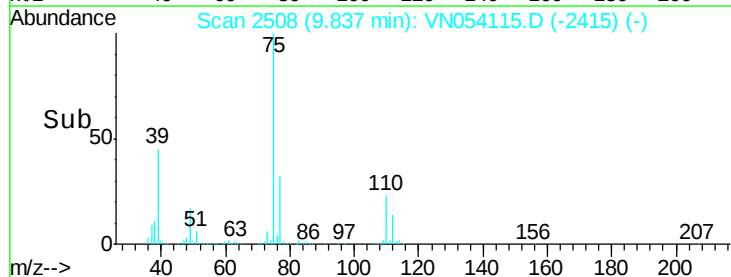
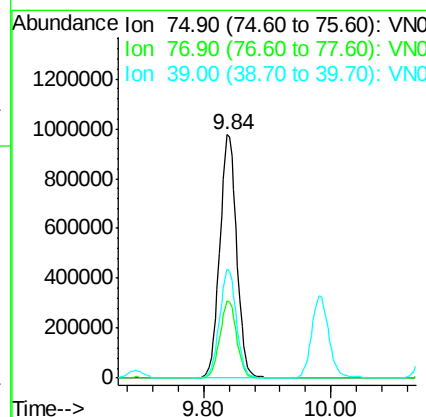
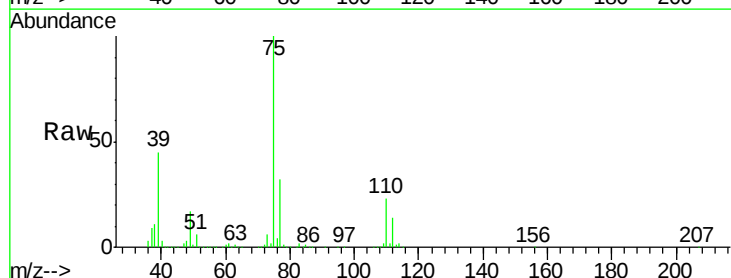
Manual Integrations
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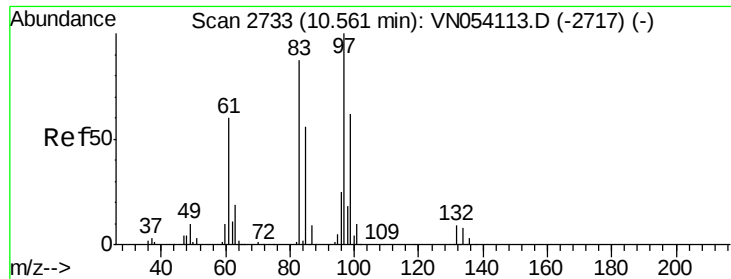
MMDadoda
3/7/2019 11:38:25 AM



#54
cis-1,3-Dichloropropene
Concen: 155.962 ug/l
RT: 9.84 min Scan# 2508
Delta R.T. 0.00 min
Lab File: VN054115.D
Acq: 6 Mar 2019 12:22

Tgt Ion: 75 Resp: 1798388
Ion Ratio Lower Upper
75 100
77 31.6 25.4 38.0
39 44.6 36.2 54.2





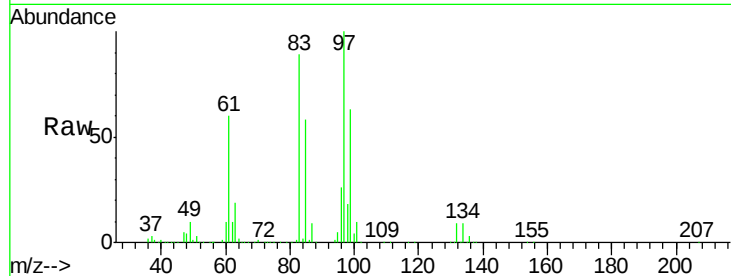
#55
 1,1,2-Trichloroethane
 Concen: 144.568 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN054115.D
 Acq: 6 Mar 2019 12:22

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		967927		
83	88.9	69.8	104.6		
85	57.5	45.0	67.4		
99	62.7	49.8	74.6		

Manual Integrations
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MMDadoda
 3/7/2019 11:38:25 AM



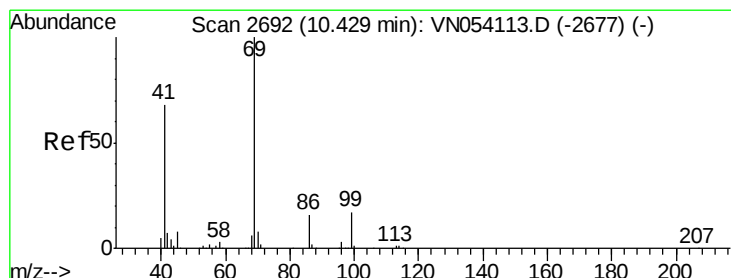
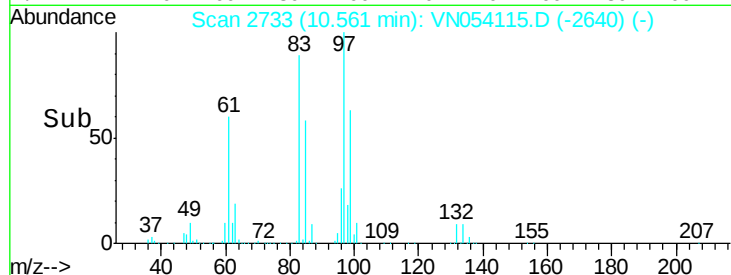
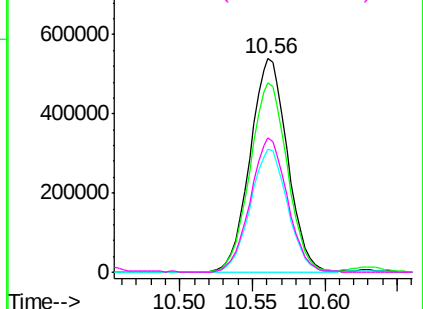
Abundance

Ion 96.90 (96.60 to 97.60): VNC

Ion 82.90 (82.60 to 83.60): VNC

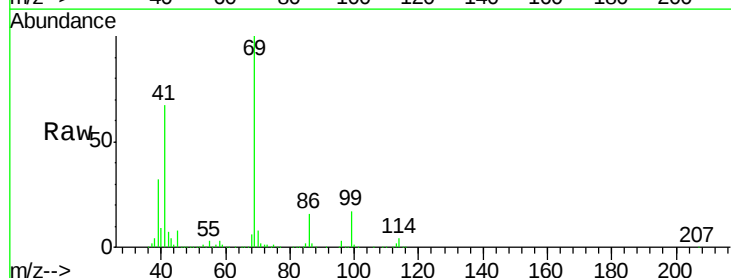
Ion 84.90 (84.60 to 85.60): VNC

Ion 98.90 (98.60 to 99.60): VNC



#56
 Ethyl methacrylate
 Concen: 175.122 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN054115.D
 Acq: 6 Mar 2019 12:22

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		1376396		
41	67.7	53.4	80.2		
39	31.6	25.6	38.4		

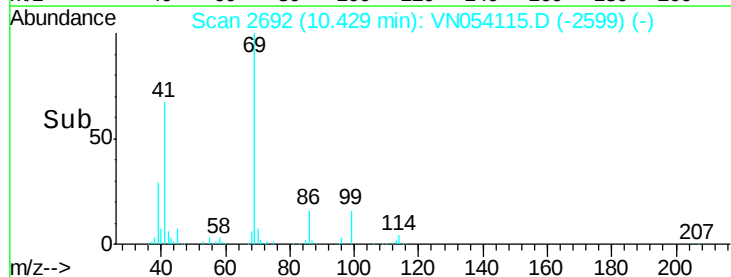
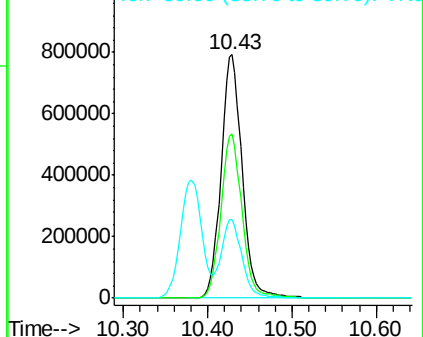


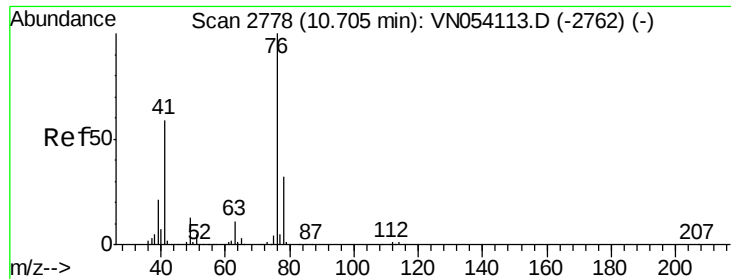
Abundance

Ion 69.00 (68.70 to 69.70): VNC

Ion 41.00 (40.70 to 41.70): VNC

Ion 39.00 (38.70 to 39.70): VNC





#57

1,3-Dichloropropane

Concen: 148.912 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. 0.00 min

Lab File: VN054115.D

Acq: 6 Mar 2019 12:22

Instrument :

MSVOA_N

ClientSampled :

VSTDIC150

Tot Ion: 76 Resp: 1701114

Ion Ratio Lower Upper

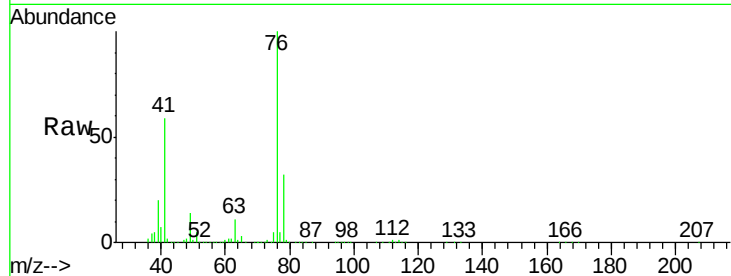
76 100

78 31.9 25.9 38.9

Manual Integrations
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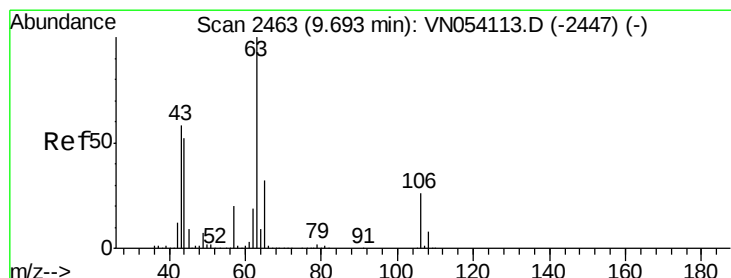
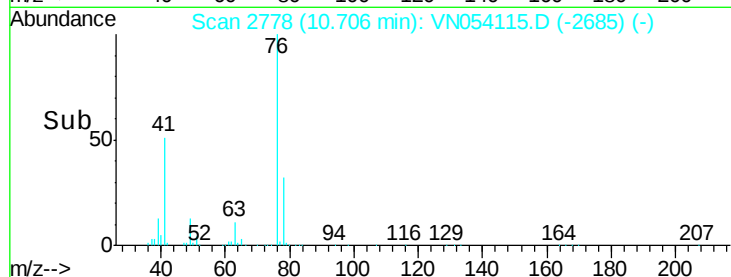
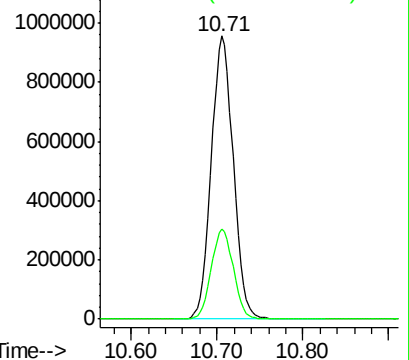
MMDadoda

3/7/2019 11:38:25 AM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 873.422 ug/l

RT: 9.69 min Scan# 2463

Delta R.T. 0.00 min

Lab File: VN054115.D

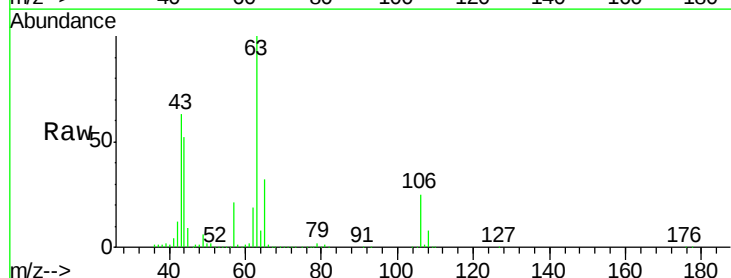
Acq: 6 Mar 2019 12:22

Tgt Ion: 63 Resp: 3142120

Ion Ratio Lower Upper

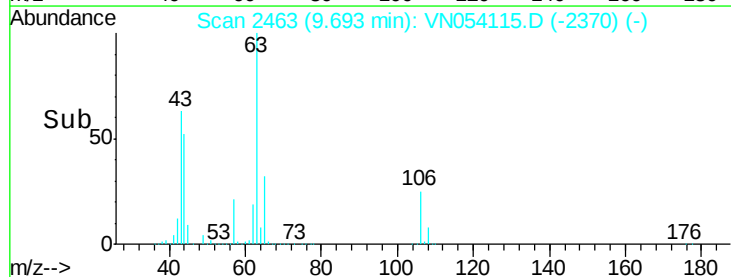
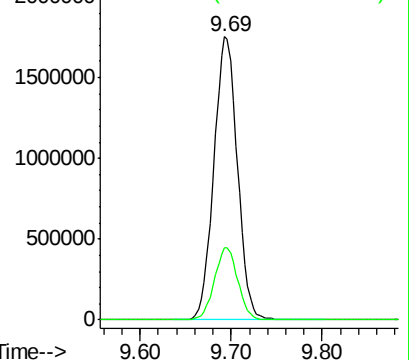
63 100

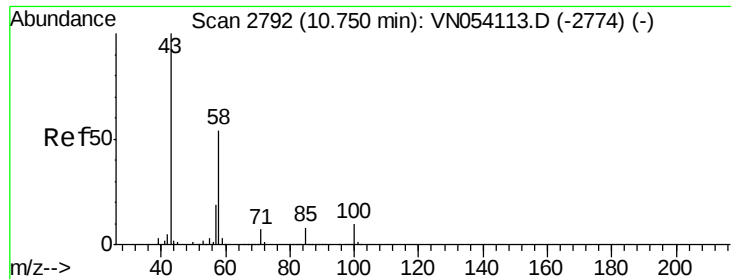
106 25.4 20.2 30.2



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V





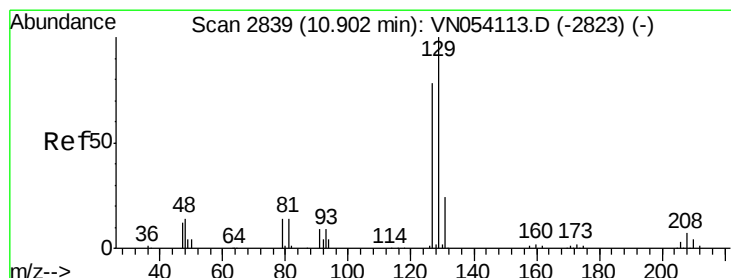
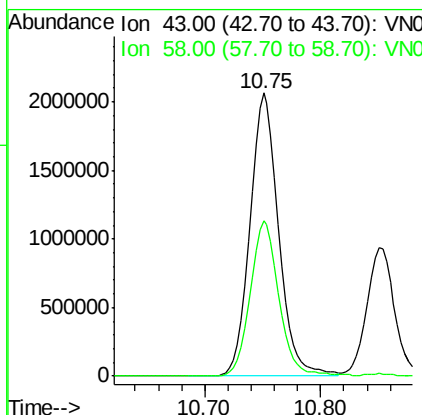
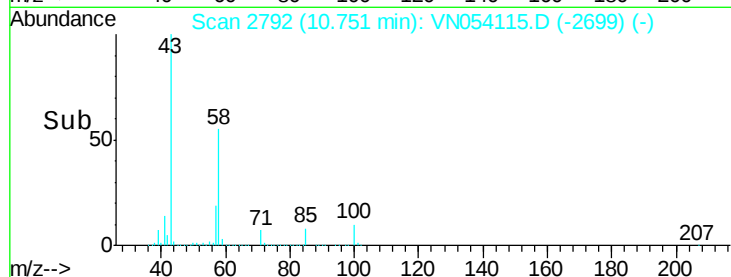
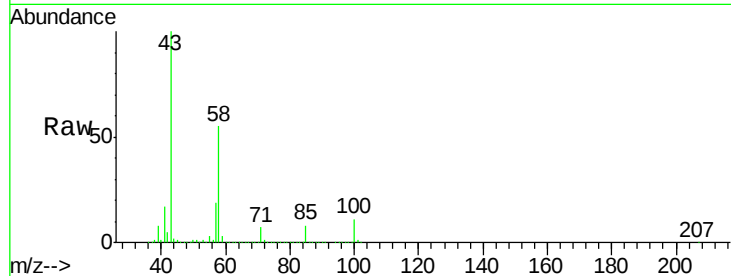
#59
2-Hexanone
Concen: 835.039 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN054115.D
Acq: 6 Mar 2019 12:22

Instrument :
MSVOA_N
ClientSampled :
VSTDIC150

Tot Ion: 43 Resp: 3567443
Ion Ratio Lower Upper
43 100
58 54.9 27.0 81.0

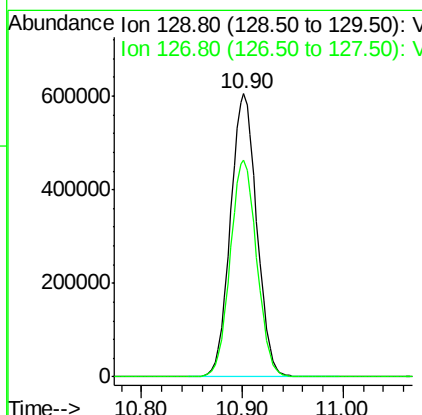
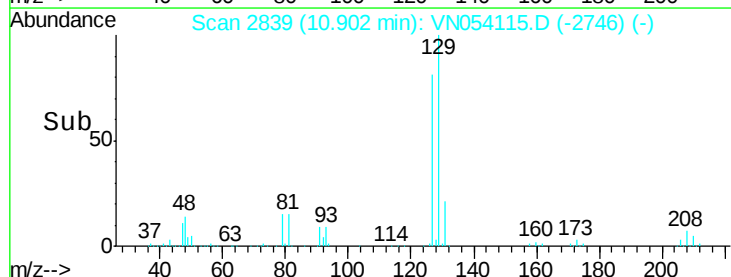
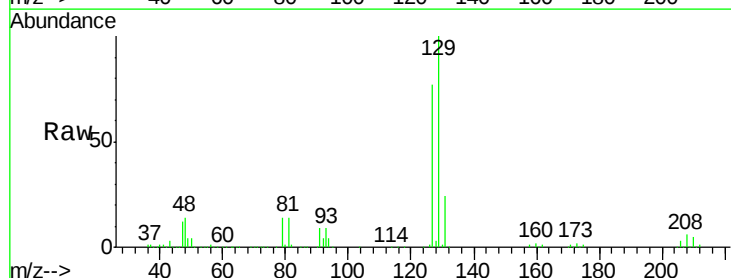
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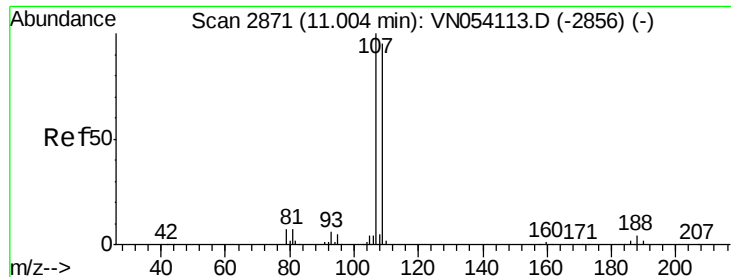
MMDadoda
3/7/2019 11:38:25 AM



#60
Dibromochloromethane
Concen: 153.698 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN054115.D
Acq: 6 Mar 2019 12:22

Tgt Ion:129 Resp: 1100314
Ion Ratio Lower Upper
129 100
127 77.0 38.8 116.4





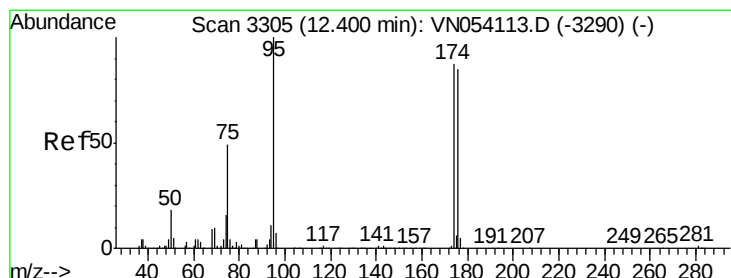
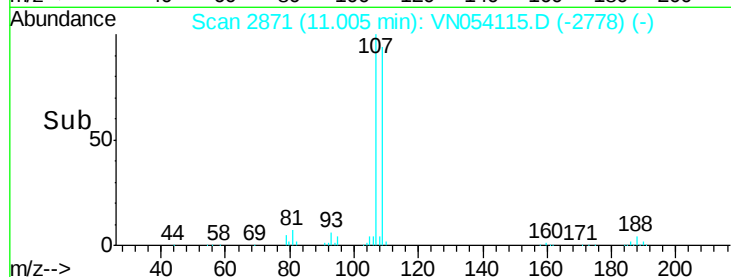
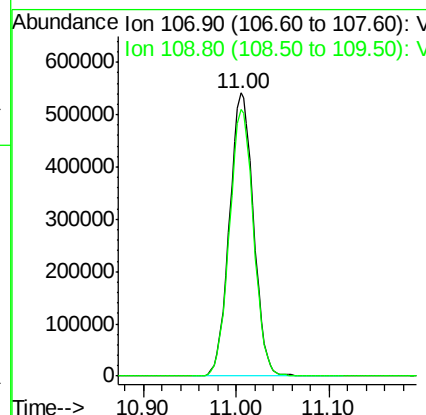
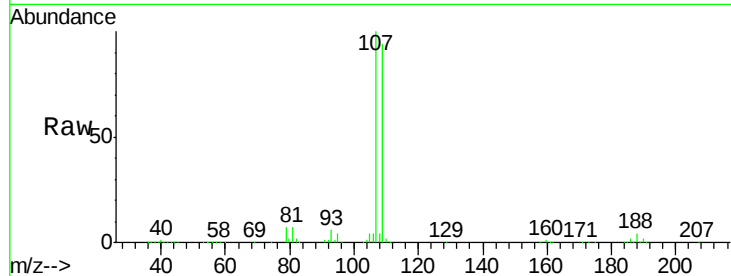
#61
 1,2-Dibromoethane
 Concen: 152.622 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. 0.00 min
 Lab File: VN054115.D
 Acq: 6 Mar 2019 12:22

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.8	74.9	112.3

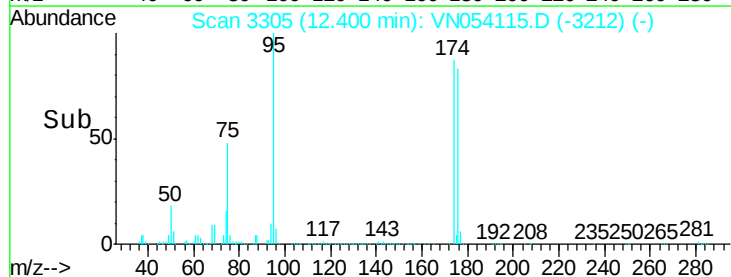
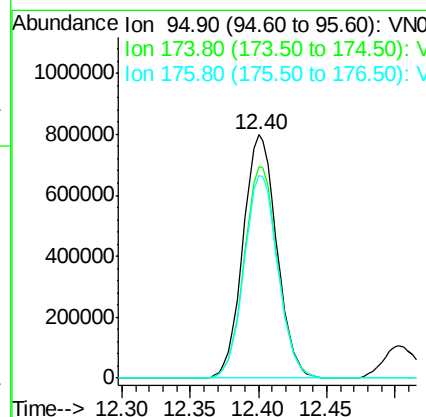
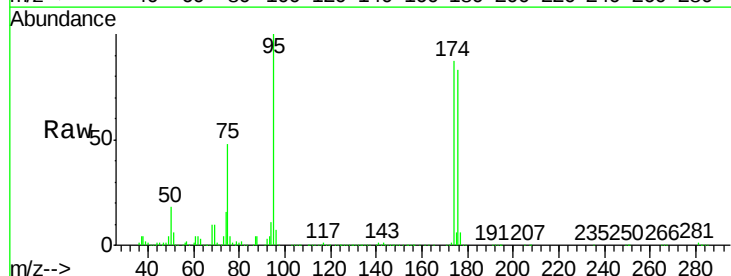
Manual Integrations
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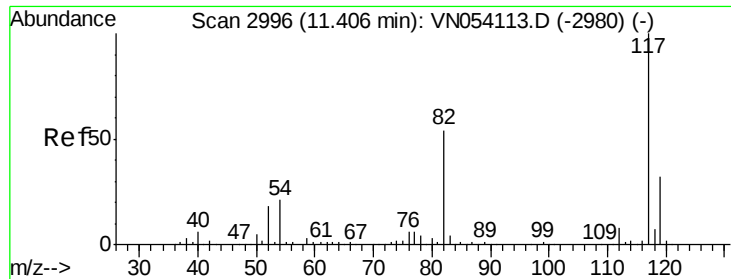
MMDadoda
 3/7/2019 11:38:25 AM



#62
 4-Bromofluorobenzene
 Concen: 158.024 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.00 min
 Lab File: VN054115.D
 Acq: 6 Mar 2019 12:22

Tgt Ion	Ratio	Lower	Upper
95	100		
174	86.3	0.0	173.2
176	83.5	0.0	168.8





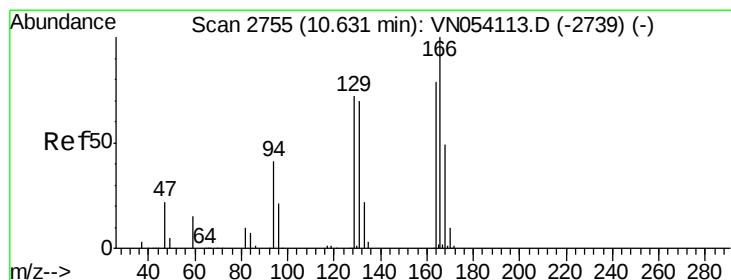
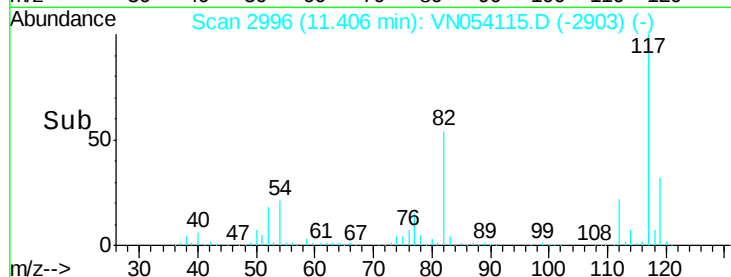
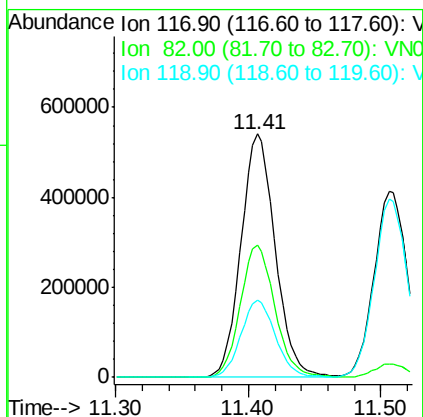
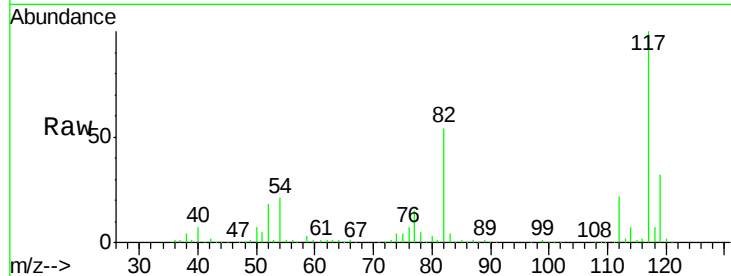
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN054115.D
Acq: 6 Mar 2019 12:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
117	100		
82	54.4	43.4	65.2
119	31.6	26.0	39.0

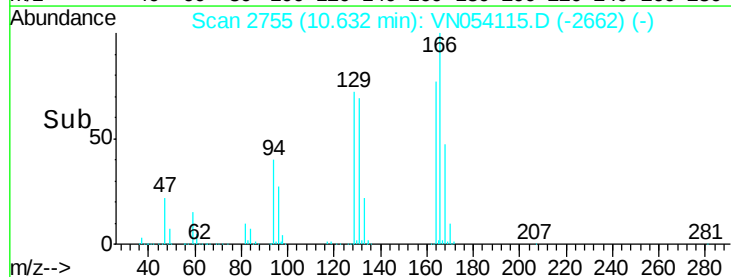
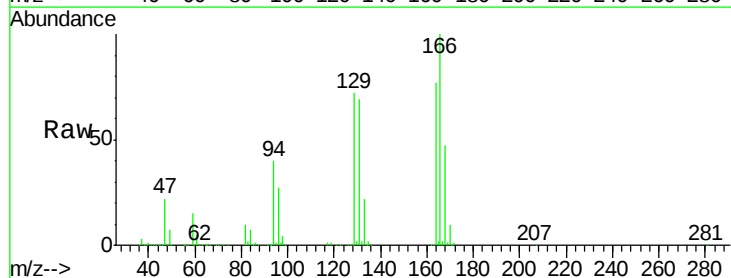
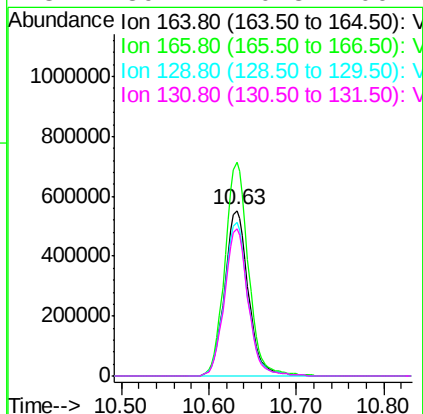
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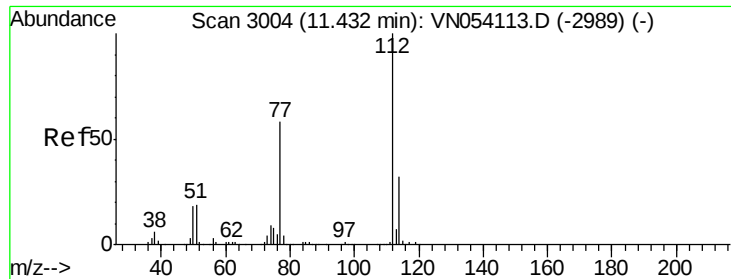
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#64
Tetrachloroethene
Concen: 129.919 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN054115.D
Acq: 6 Mar 2019 12:22

Tgt Ion	Ratio	Lower	Upper
164	100		
166	129.3	101.3	151.9
129	93.2	73.2	109.8
131	89.1	70.8	106.2





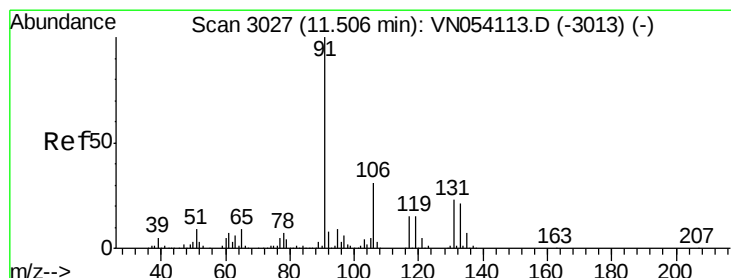
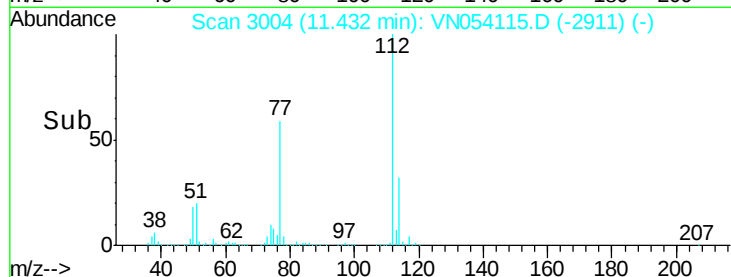
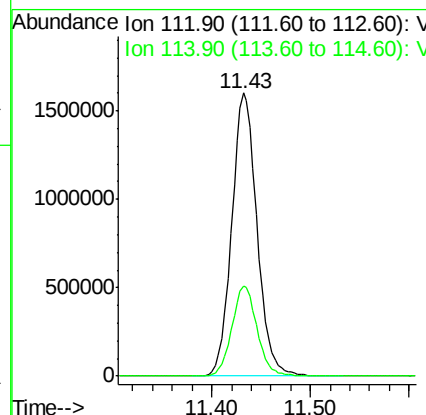
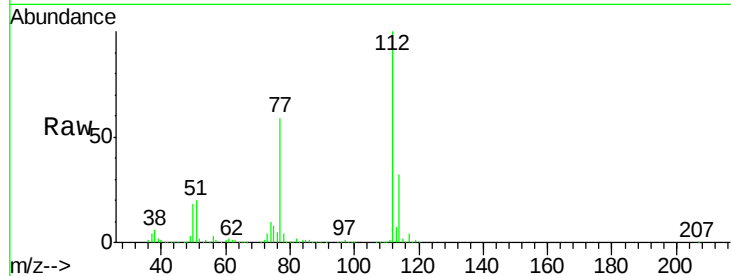
#65
Chlorobenzene
Concen: 141.649 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN054115.D
Acq: 6 Mar 2019 12:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion:112 Resp: 2864416
Ion Ratio Lower Upper
112 100
114 31.7 25.4 38.0

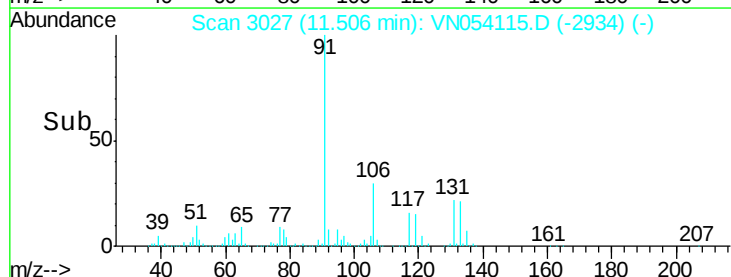
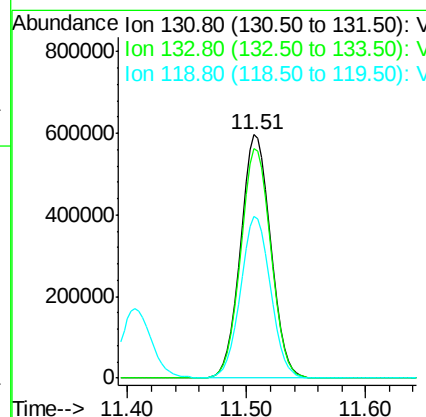
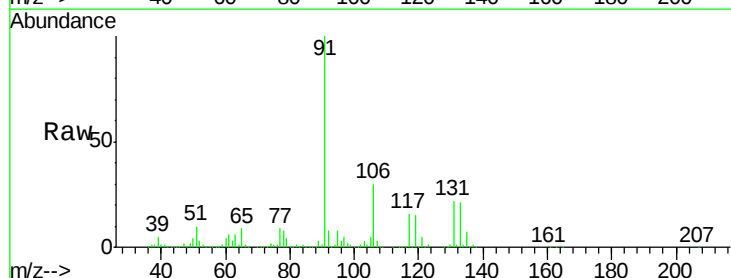
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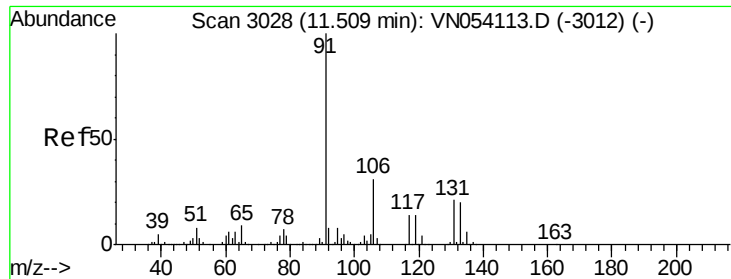
MMDadoda
3/7/2019 11:38:25 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 144.647 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. 0.00 min
Lab File: VN054115.D
Acq: 6 Mar 2019 12:22

Tgt Ion:131 Resp: 1047070
Ion Ratio Lower Upper
131 100
133 94.8 47.6 142.9
119 66.2 33.8 101.3





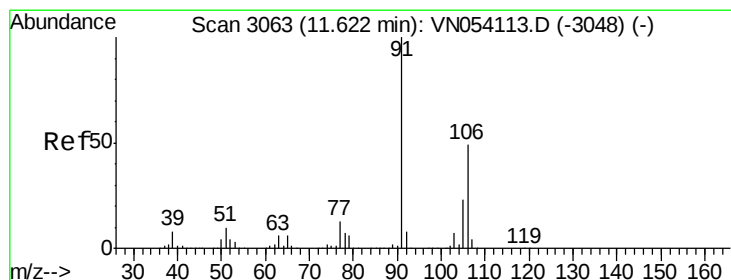
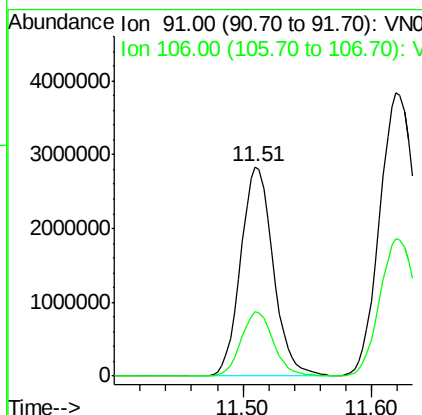
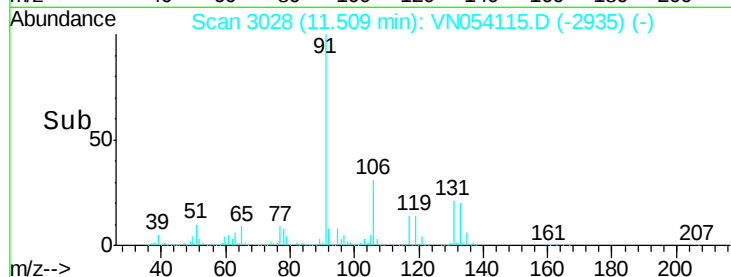
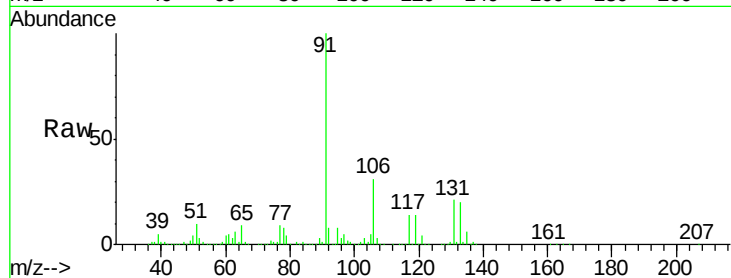
#67
Ethyl Benzene
Concen: 147.595 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN054115.D
Acq: 6 Mar 2019 12:22

Instrument :
MSVOA_N
ClientSampled :
VSTDIC150

Tot Ion: 91 Resp: 4994389
Ion Ratio Lower Upper
91 100
106 30.5 24.6 36.8

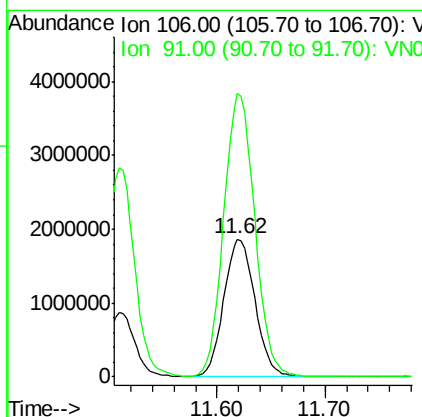
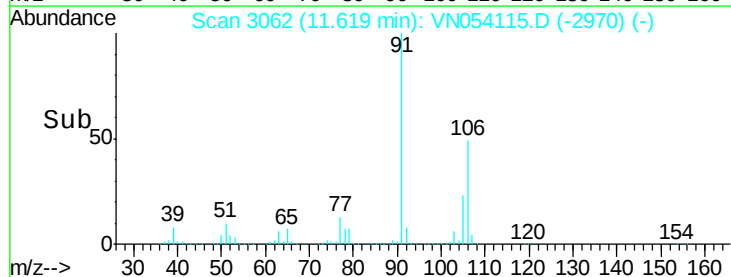
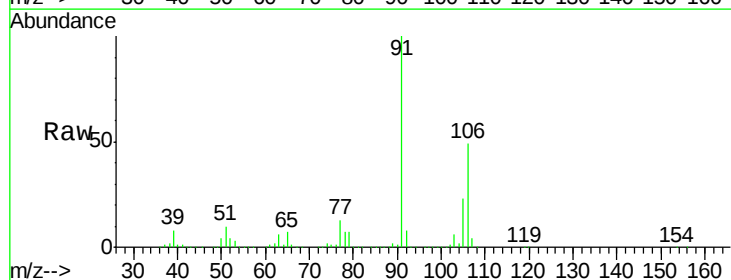
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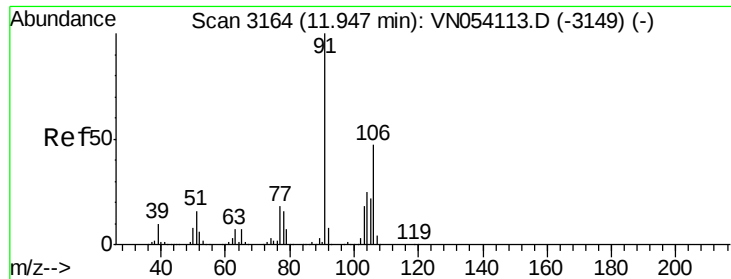
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#68
m/p-Xylenes
Concen: 293.970 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN054115.D
Acq: 6 Mar 2019 12:22

Tgt Ion: 106 Resp: 3753957
Ion Ratio Lower Upper
106 100
91 205.1 163.2 244.8





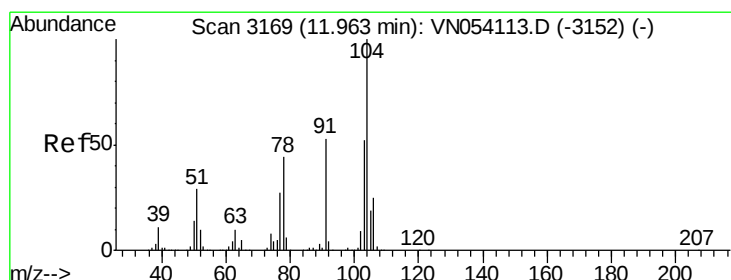
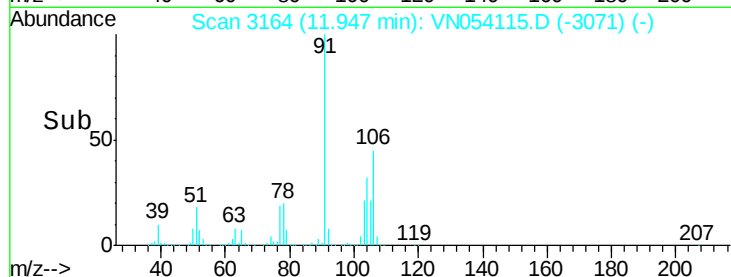
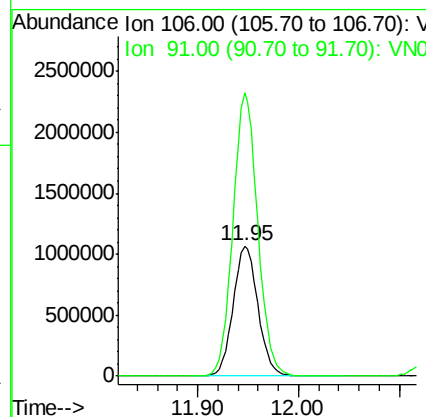
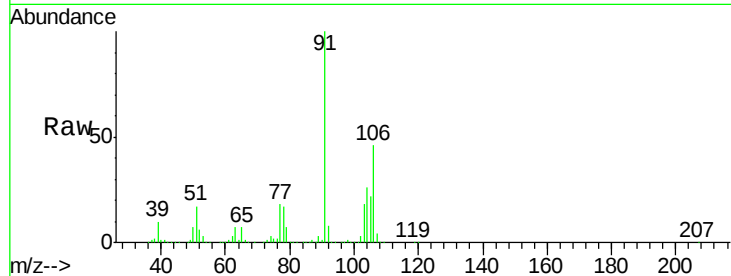
#69
o-Xylene
Concen: 149.227 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN054115.D
Acq: 6 Mar 2019 12:22

Instrument :
MSVOA_N
ClientSampled :
VSTDIC150

Tot Ion:106 Resp: 1833720
Ion Ratio Lower Upper
106 100
91 216.3 107.1 321.3

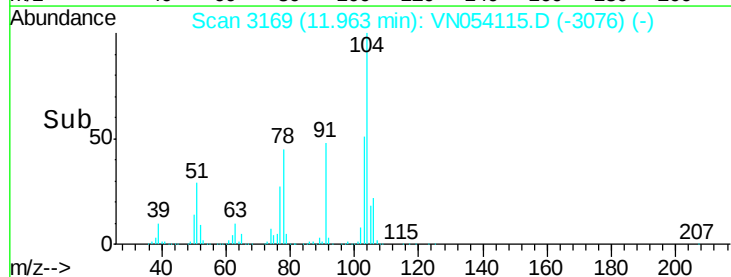
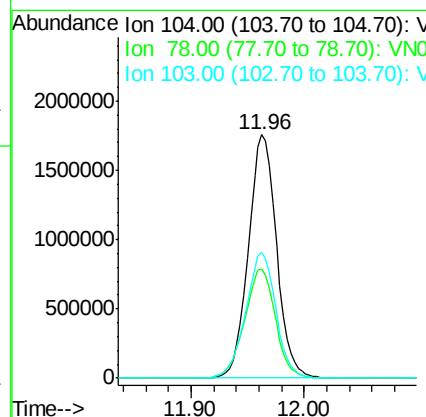
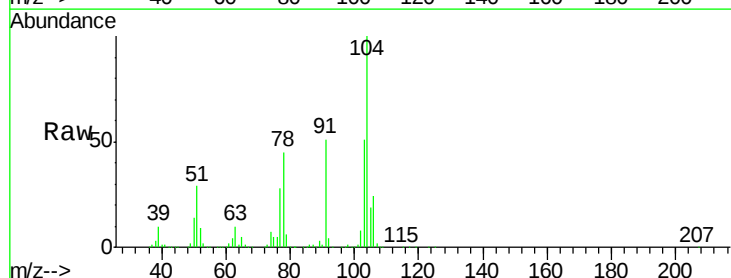
Manual Integrations
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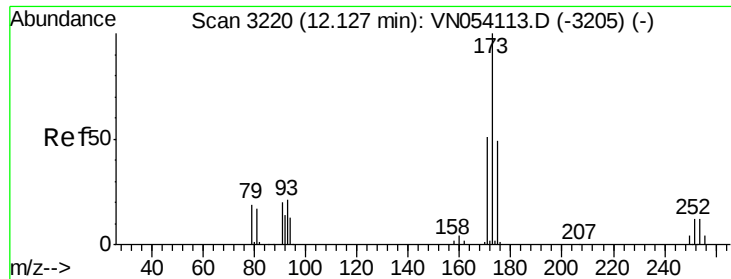
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#70
Styrene
Concen: 155.790 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN054115.D
Acq: 6 Mar 2019 12:22

Tgt Ion:104 Resp: 3038812
Ion Ratio Lower Upper
104 100
78 49.2 39.4 59.0
103 55.4 44.7 67.1





#71

Bromoform

Concen: 156.355 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN054115.D

Acq: 6 Mar 2019 12:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion:173 Resp: 778960

Ion Ratio Lower Upper

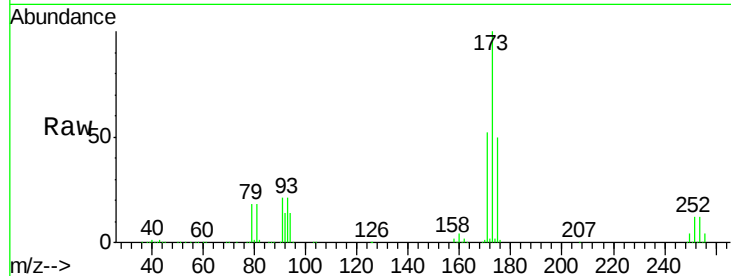
173 100

175 49.0 24.1 72.2

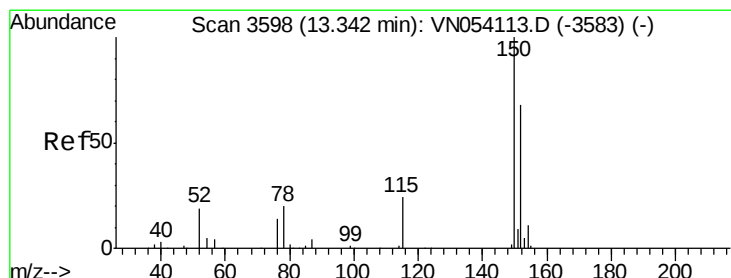
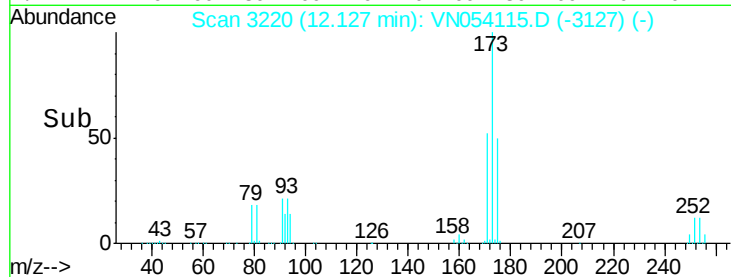
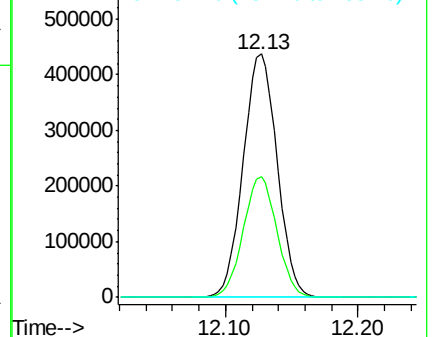
254 0.2 0.0 0.0#

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Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN054115.D

Acq: 6 Mar 2019 12:22

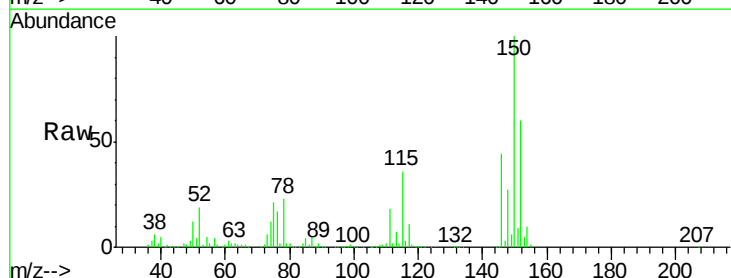
Tgt Ion:152 Resp: 449189

Ion Ratio Lower Upper

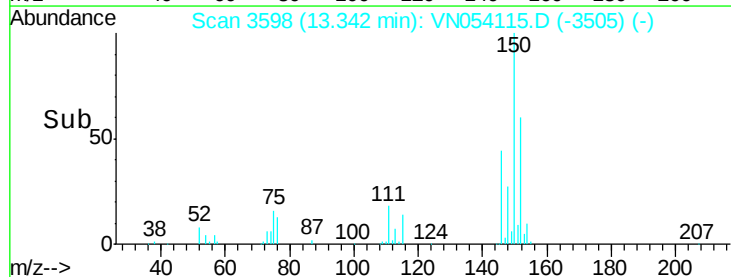
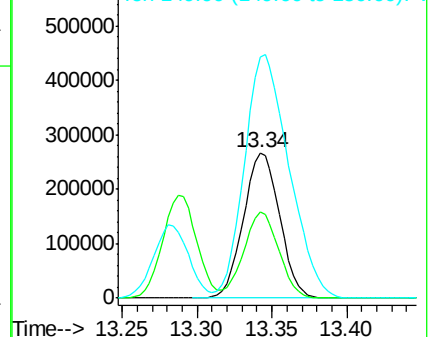
152 100

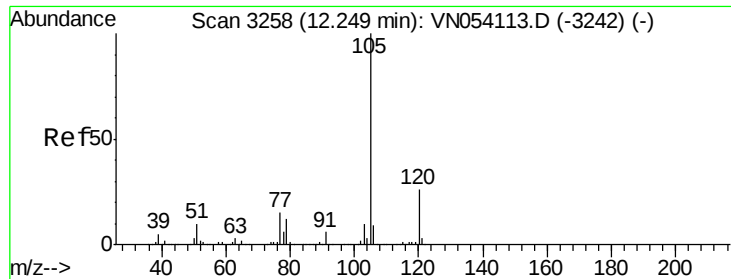
115 57.1 28.5 85.6

150 206.4 0.0 343.2



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 133.281 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN054115.D

Acq: 6 Mar 2019 12:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion:105 Resp: 4763648

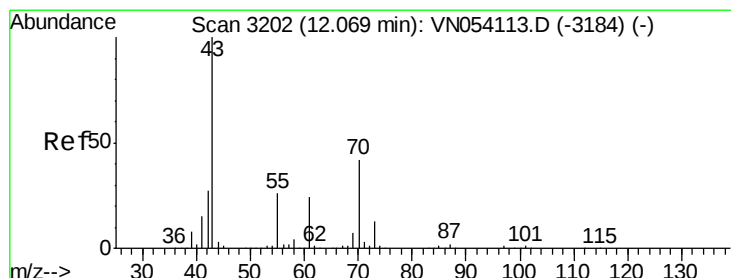
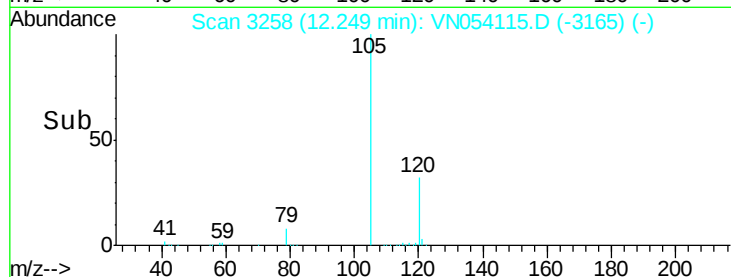
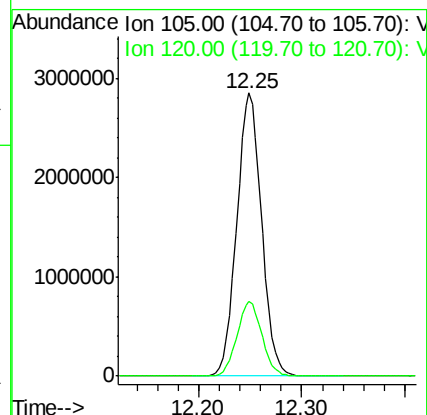
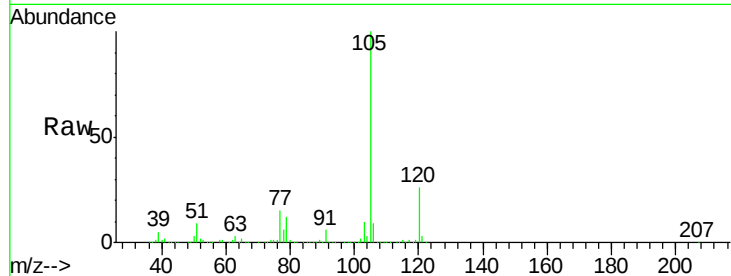
Ion Ratio Lower Upper

105 100

120 26.4 13.3 39.8

Manual Integrations
APPROVED

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3/7/2019 11:38:25 AM



#74

N-ethyl acetate

Concen: 165.295 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN054115.D

Acq: 6 Mar 2019 12:22

Tgt Ion: 43 Resp: 1564672

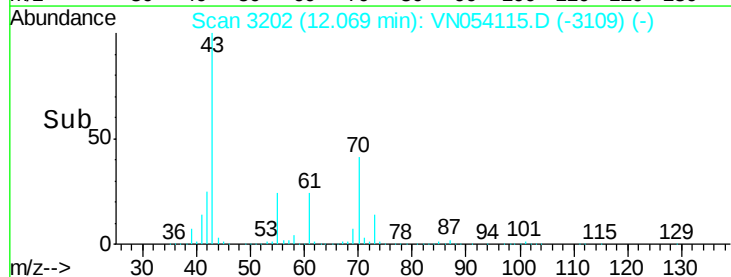
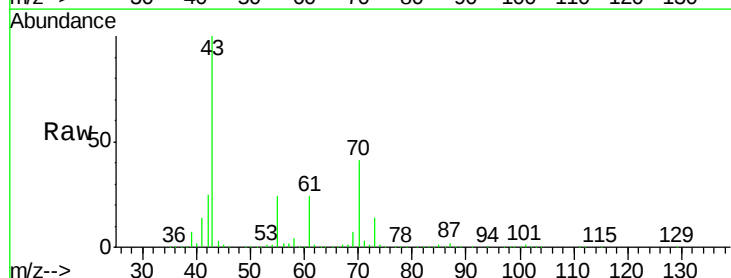
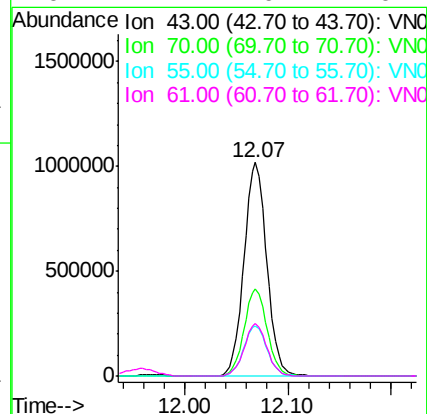
Ion Ratio Lower Upper

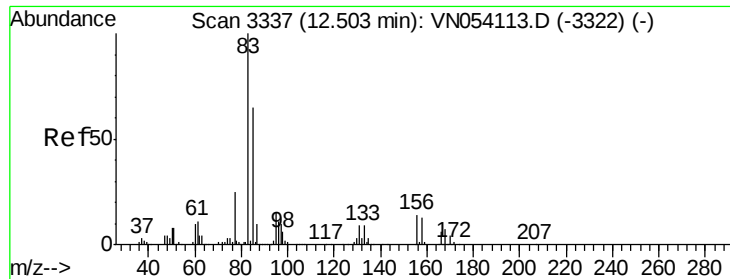
43 100

70 41.1 33.6 50.4

55 24.3 20.6 31.0

61 24.4 19.4 29.2





#75

1,1,2,2-Tetrachloroethane

Concen: 132.673 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN054115.D

Acq: 6 Mar 2019 12:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 83 Resp: 1234208

Ion Ratio Lower Upper

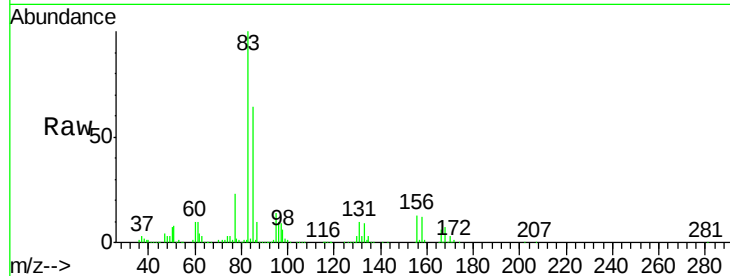
83 100

131 10.0 5.0 14.9

85 64.0 32.4 97.0

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Abundance Ion 82.90 (82.60 to 83.60): VN054115.D (-3322) (-)

Ion 130.80 (130.50 to 131.50): VN054115.D (-3322) (-)

Ion 84.90 (84.60 to 85.60): VN054115.D (-3322) (-)

1000000

800000

600000

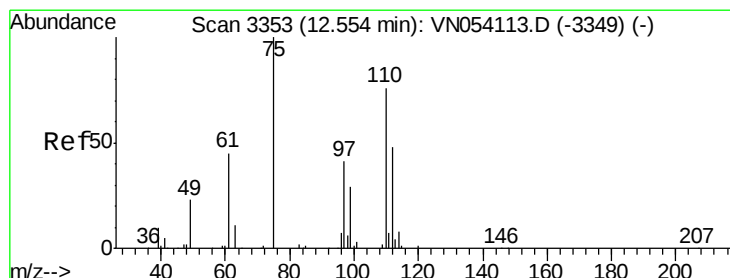
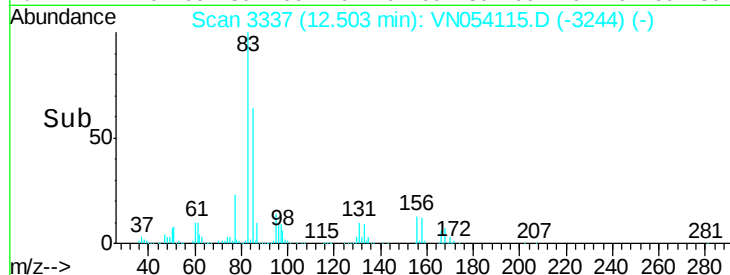
400000

200000

0

12.45 12.50 12.55

Time-->



#76

1,2,3-Trichloropropane

Concen: 157.712 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

Lab File: VN054115.D

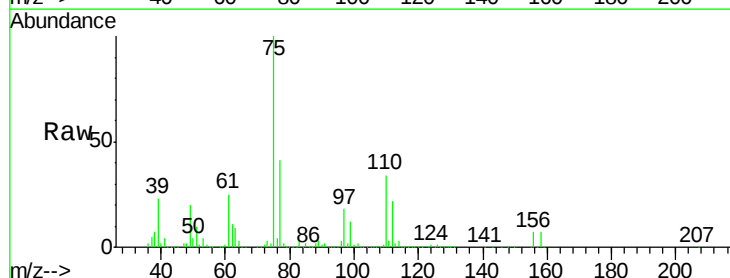
Acq: 6 Mar 2019 12:22

Tgt Ion: 75 Resp: 1107627

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN054115.D (-3349) (-)

Ion 77.00 (76.70 to 77.70): VN054115.D (-3349) (-)

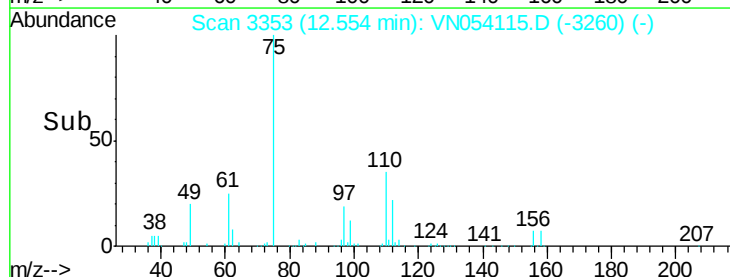
1000000

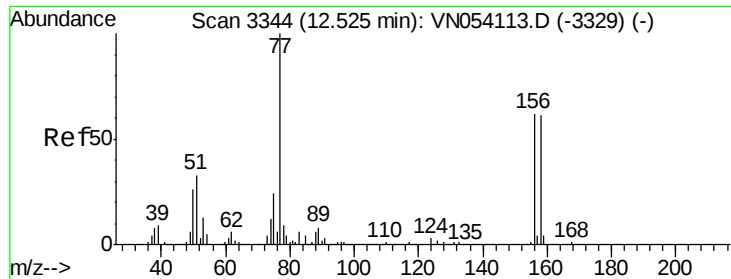
500000

0

12.55

Time-->





#77

Bromobenzene

Concen: 132.757 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN054115.D

Acq: 6 Mar 2019 12:22

Instrument :

MSVOA_N

ClientSampled :

VSTDIC150

Tot Ion:156 Resp: 1222480

Ion Ratio Lower Upper

156 100

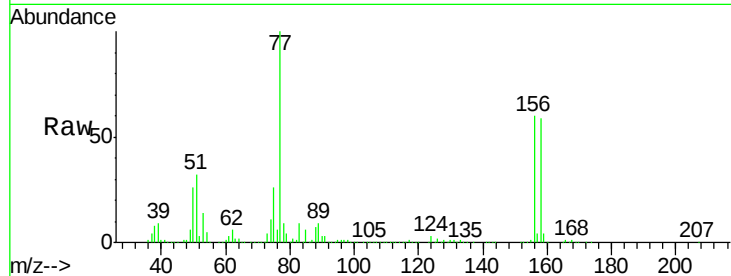
77 191.6 93.6 280.8

158 97.2 48.4 145.0

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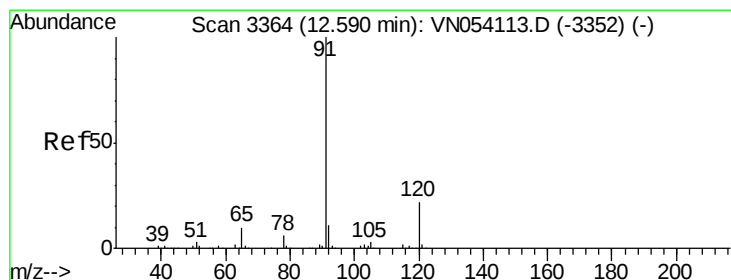
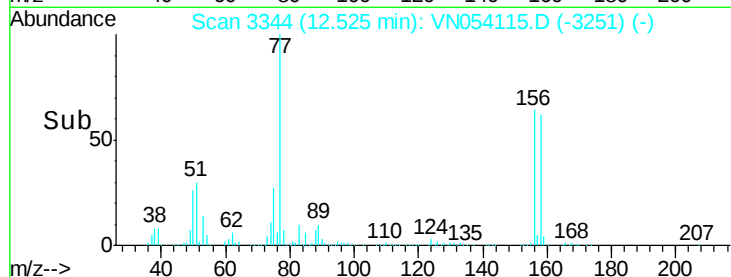
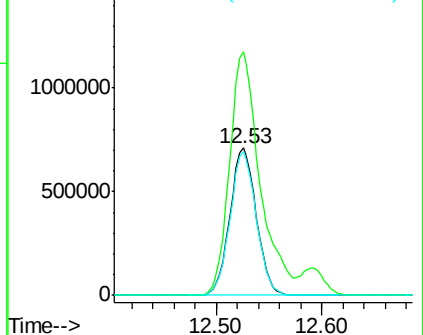
3/7/2019 11:38:25 AM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 140.070 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN054115.D

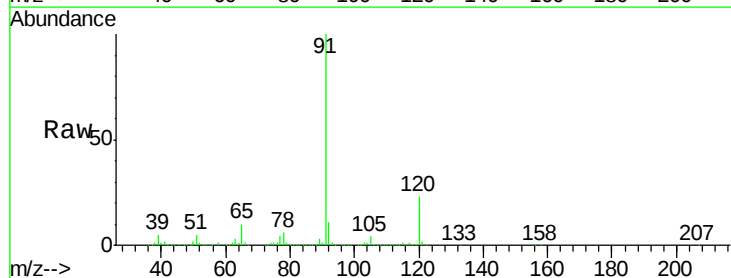
Acq: 6 Mar 2019 12:22

Tgt Ion: 91 Resp: 5633371

Ion Ratio Lower Upper

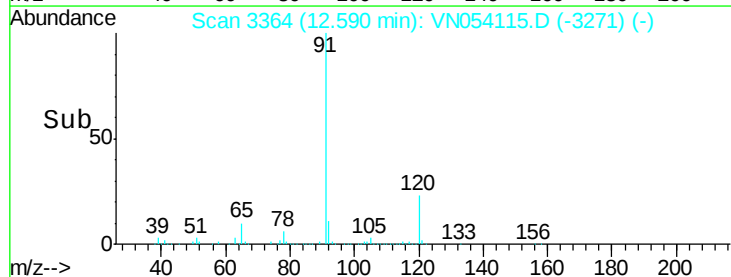
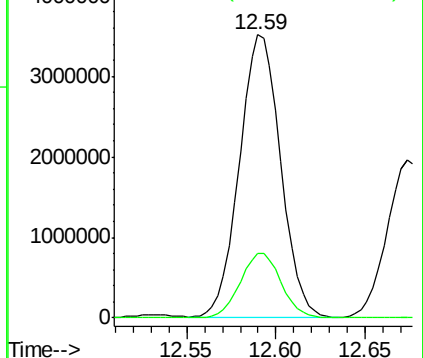
91 100

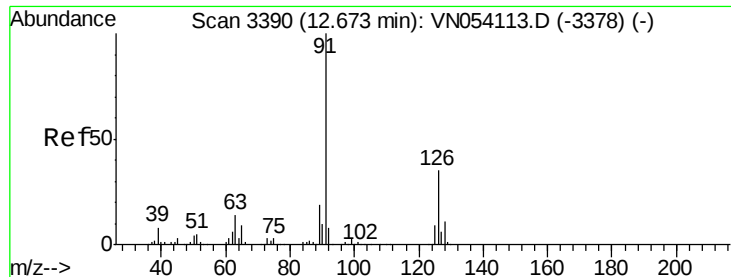
120 22.8 11.3 33.9



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 134.949 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN054115.D

Acq: 6 Mar 2019 12:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 91 Resp: 3296341

Ion Ratio Lower Upper

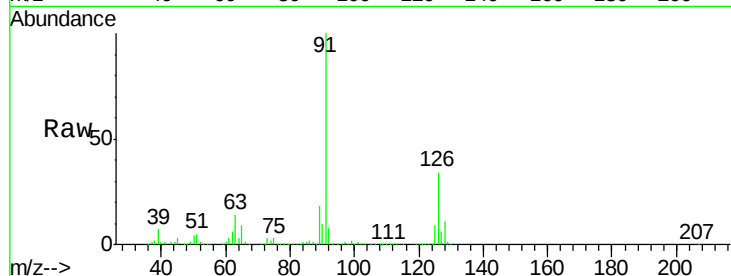
91 100

126 34.7 17.4 52.2

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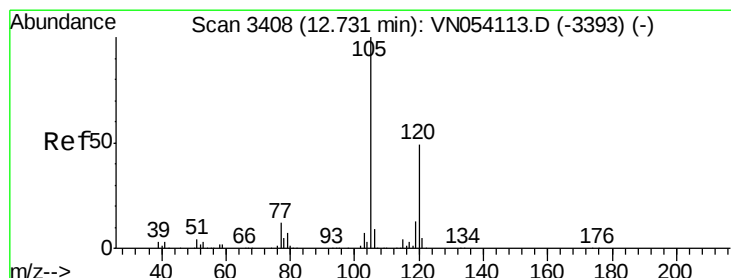
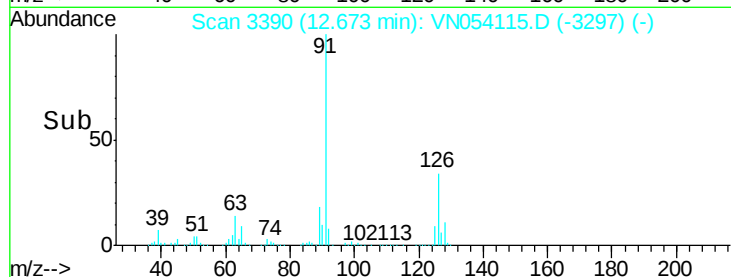
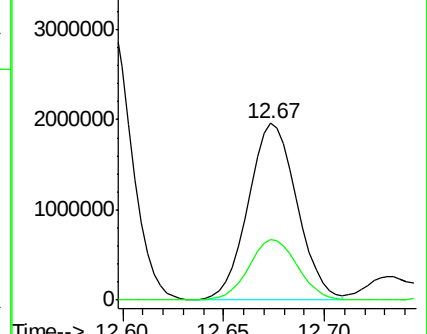
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Abundance Ion 91.00 (90.70 to 91.70): VN054113.D (-3378) (-)

Ion 125.90 (125.60 to 126.60): VN054113.D (-3378) (-)



#80

1,3,5-Trimethylbenzene

Concen: 139.493 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN054115.D

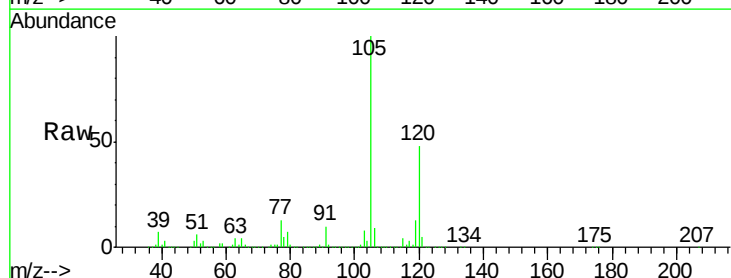
Acq: 6 Mar 2019 12:22

Tgt Ion:105 Resp: 4052841

Ion Ratio Lower Upper

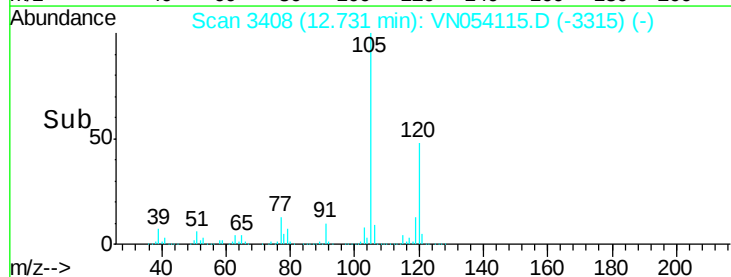
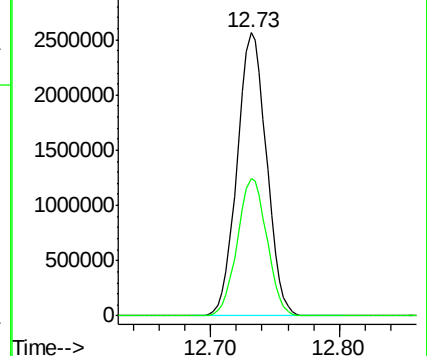
105 100

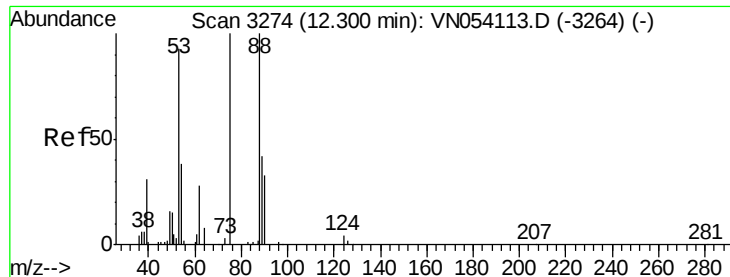
120 48.9 24.6 73.8



Abundance Ion 105.00 (104.70 to 105.70): VN054113.D (-3393) (-)

Ion 120.00 (119.70 to 120.70): VN054113.D (-3393) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 169.124 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN054115.D

Acq: 6 Mar 2019 12:22

Instrument :

MSVOA_N

ClientSampled :

VSTDIC150

Tot Ion: 75 Resp: 376997
Ion Ratio Lower Upper

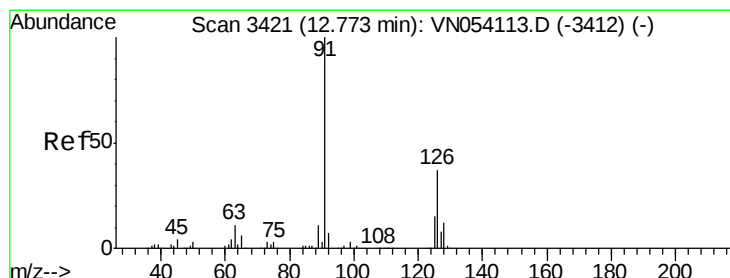
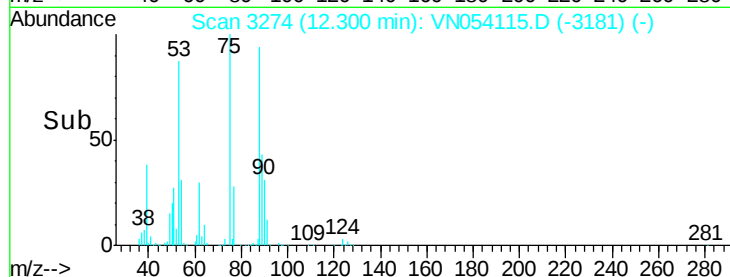
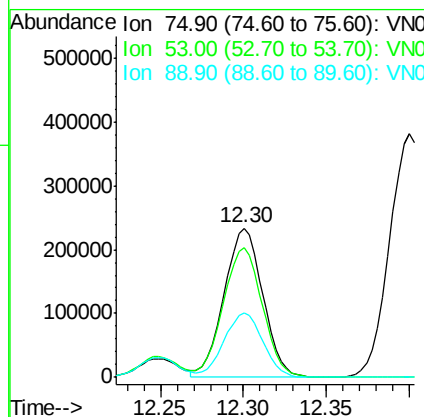
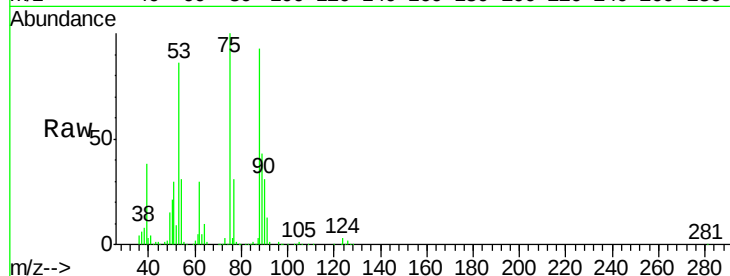
75 100

53 89.0 76.4 114.6

89 43.8 35.3 52.9

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#82

4-Chlorotoluene

Concen: 139.013 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. 0.00 min

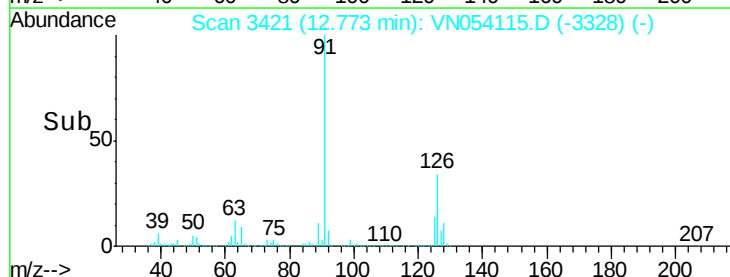
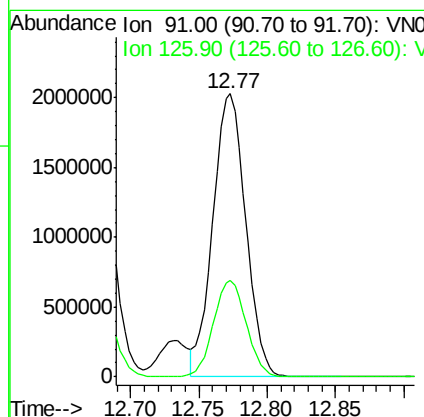
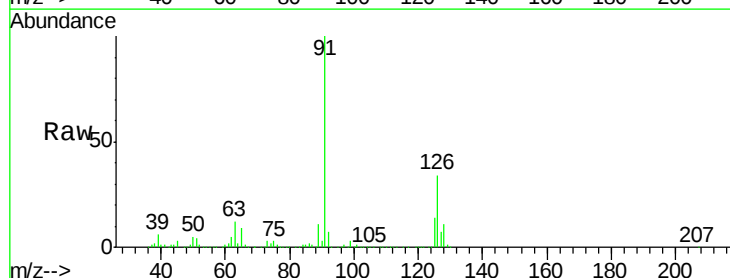
Lab File: VN054115.D

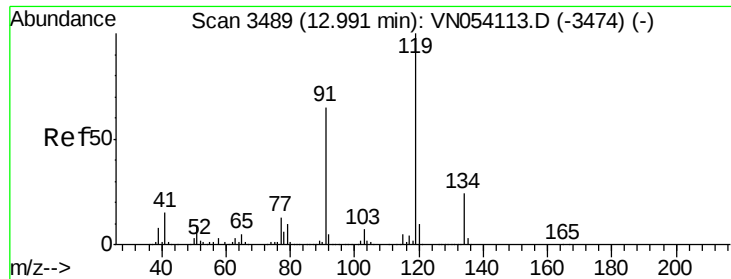
Acq: 6 Mar 2019 12:22

Tgt Ion: 91 Resp: 3384977
Ion Ratio Lower Upper

91 100

126 33.9 17.1 51.3





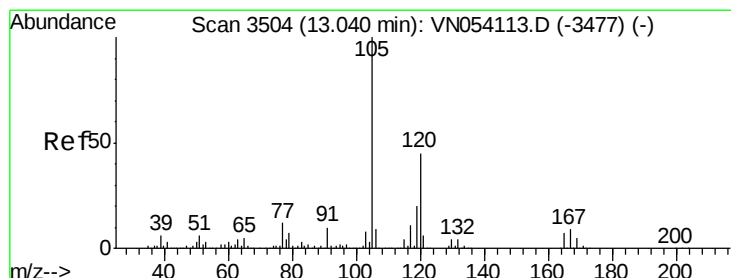
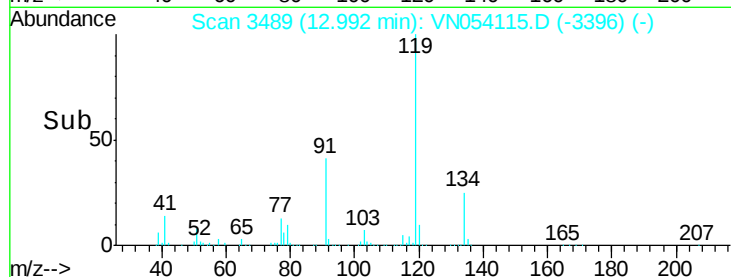
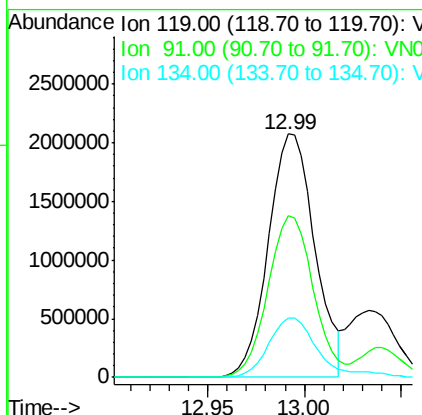
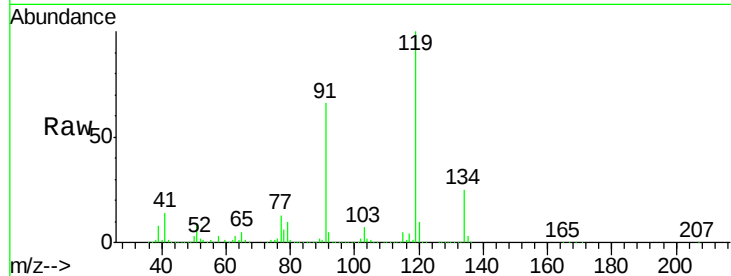
#83
 tert-Butylbenzene
 Concen: 134.473 ug/l
 RT: 12.99 min Scan# 3489
 Delta R.T. 0.00 min
 Lab File: VN054115.D
 Acq: 6 Mar 2019 12:22

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC150

Tot Ion:119 Resp: 3460016
 Ion Ratio Lower Upper
 119 100
 91 64.9 31.8 95.3
 134 26.3 12.8 38.3

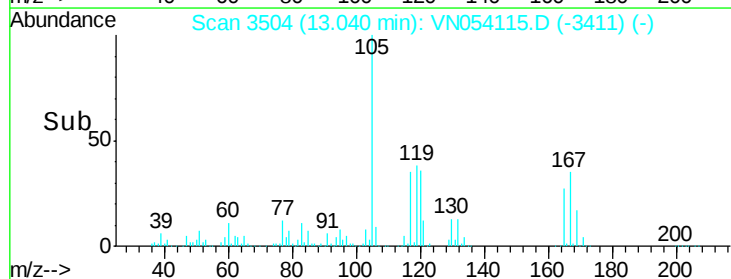
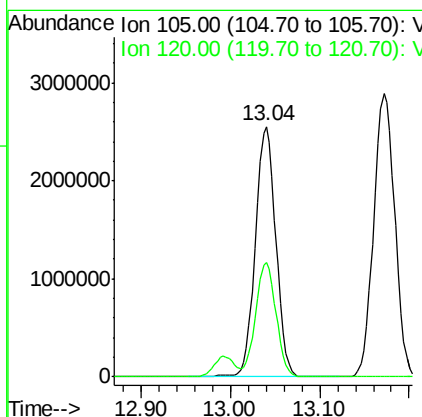
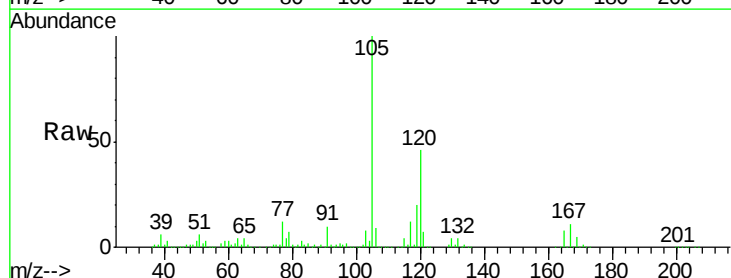
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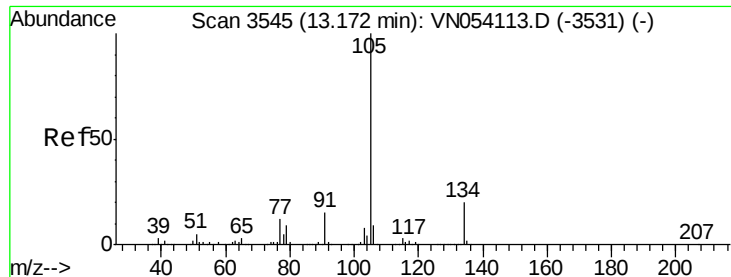
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#84
 1,2,4-Trimethylbenzene
 Concen: 142.291 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN054115.D
 Acq: 6 Mar 2019 12:22

Tgt Ion:105 Resp: 4103231
 Ion Ratio Lower Upper
 105 100
 120 45.5 22.6 67.7





#85

sec-Butylbenzene

Concen: 134.975 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN054115.D

Acq: 6 Mar 2019 12:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion:105 Resp: 4712926

Ion Ratio Lower Upper

105 100

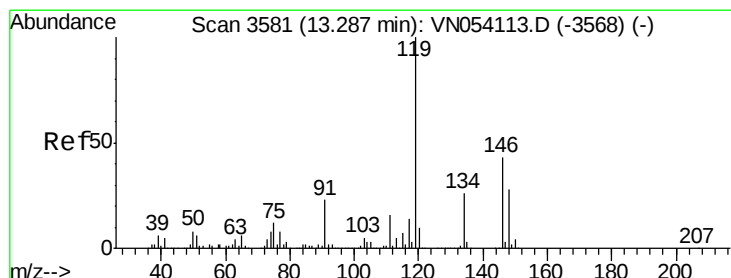
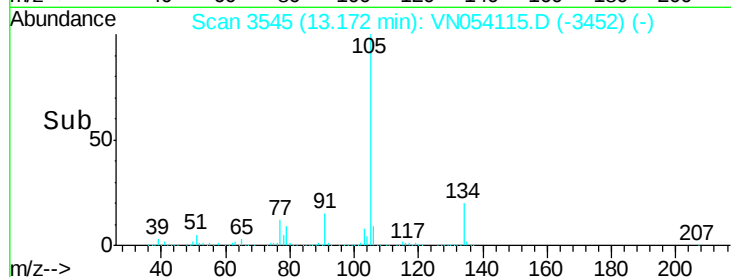
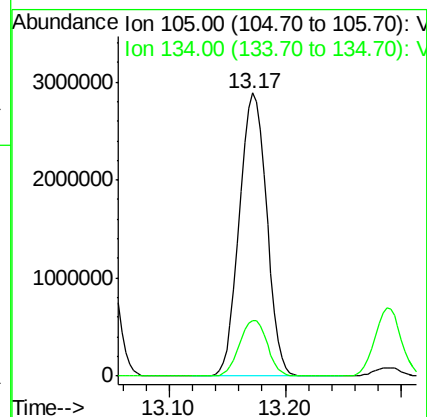
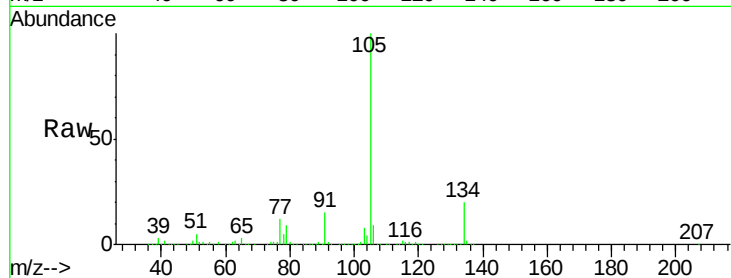
134 20.0 9.8 29.5

Manual Integrations

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#86

p-Isopropyltoluene

Concen: 140.892 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN054115.D

Acq: 6 Mar 2019 12:22

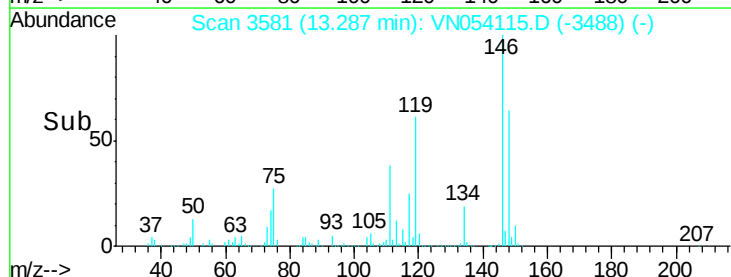
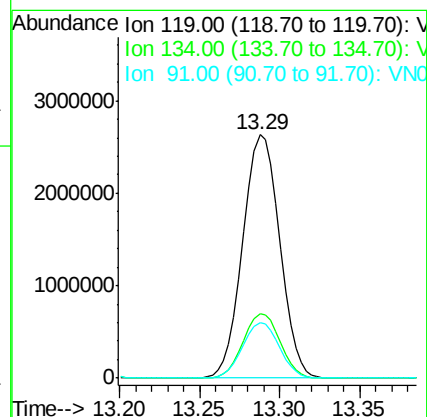
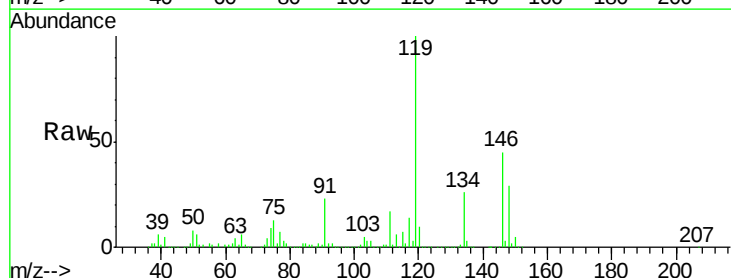
Tgt Ion:119 Resp: 4135752

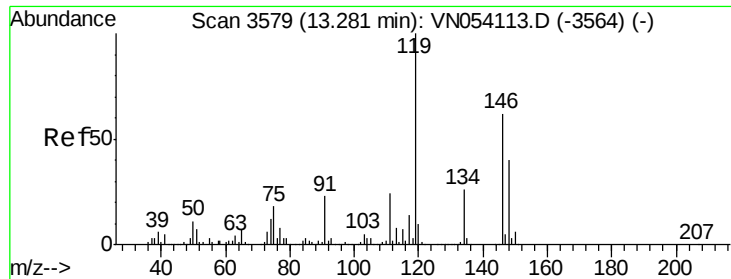
Ion Ratio Lower Upper

119 100

134 26.5 13.2 39.5

91 22.6 11.4 34.2





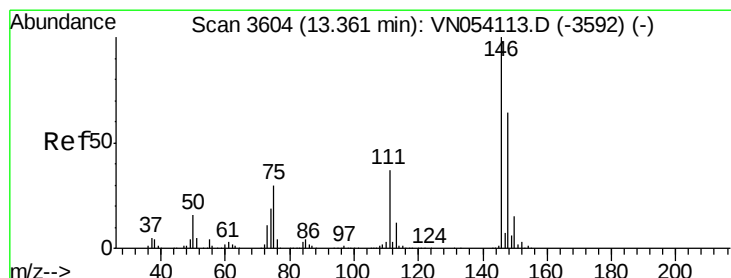
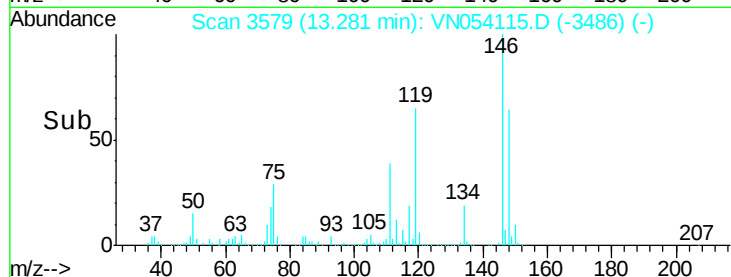
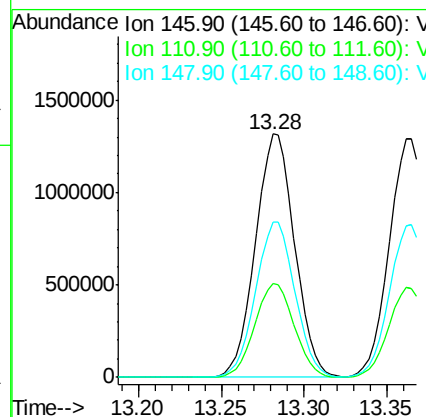
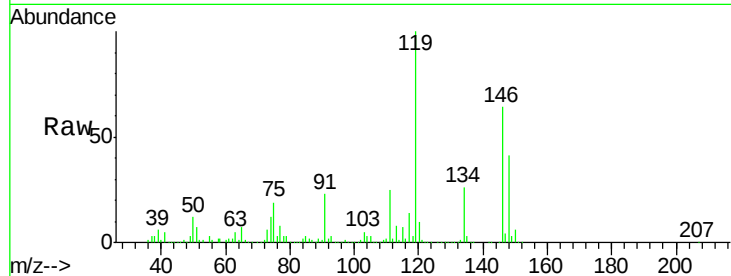
#87
 1,3-Dichlorobenzene
 Concen: 138.190 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. 0.00 min
 Lab File: VN054115.D
 Acq: 6 Mar 2019 12:22

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion:146 Resp: 2161457
 Ion Ratio Lower Upper
 146 100
 111 38.7 19.3 57.8
 148 64.0 32.4 97.0

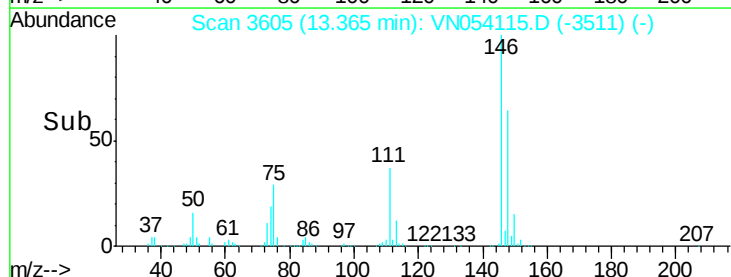
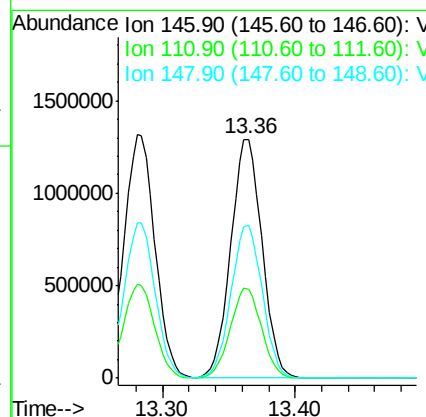
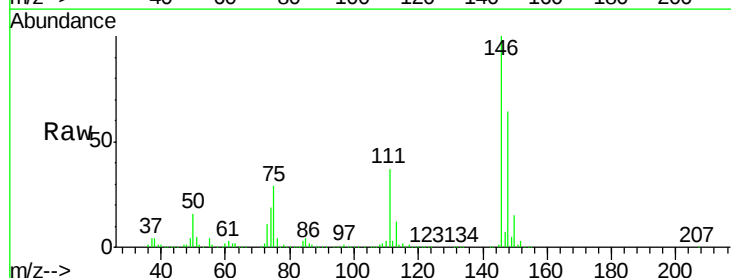
Manual Integrations
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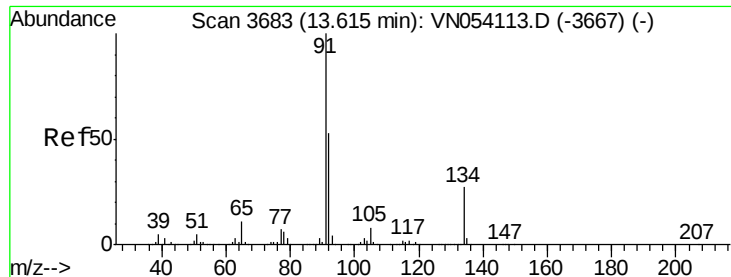
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#88
 1,4-Dichlorobenzene
 Concen: 136.450 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN054115.D
 Acq: 6 Mar 2019 12:22

Tgt Ion:146 Resp: 2118126
 Ion Ratio Lower Upper
 146 100
 111 37.6 18.9 56.5
 148 64.0 32.1 96.5





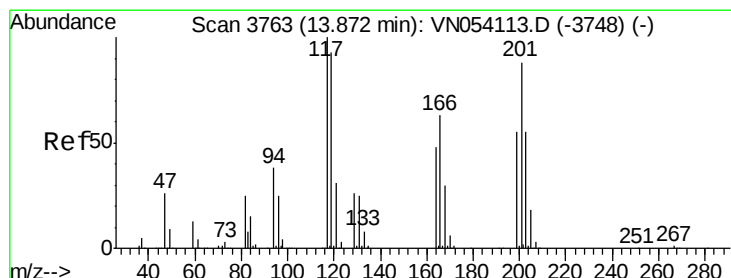
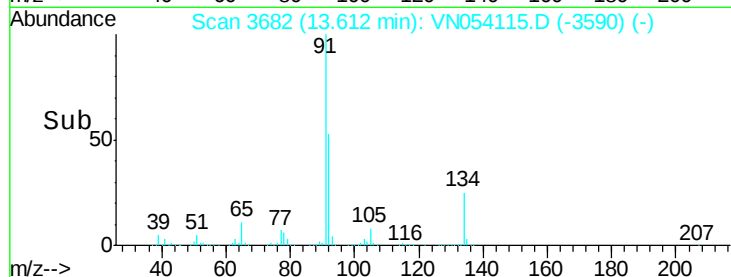
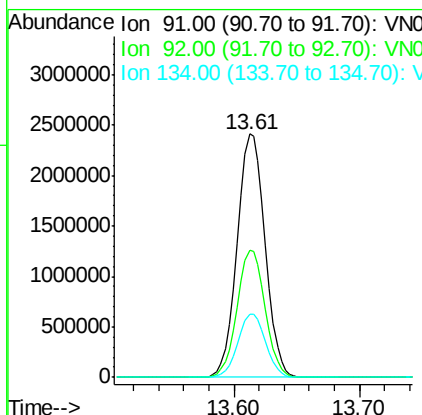
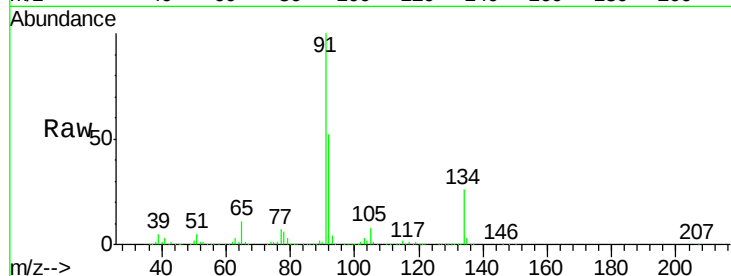
#89
n-Butylbenzene
Concen: 150.052 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. -0.00 min
Lab File: VN054115.D
Acq: 6 Mar 2019 12:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion: 91 Resp: 3718910
Ion Ratio Lower Upper
91 100
92 52.4 26.0 78.0
134 25.8 13.1 39.1

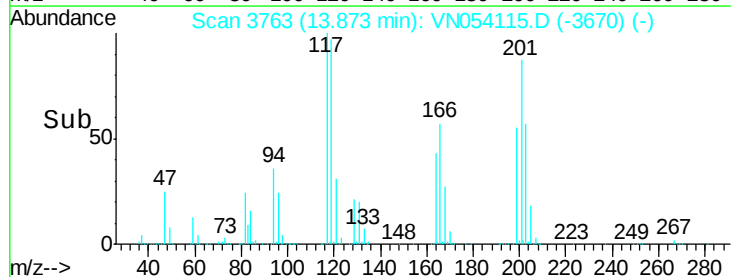
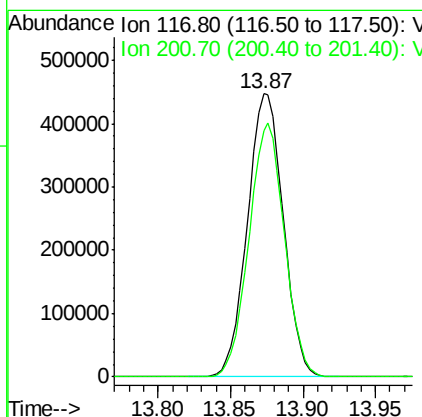
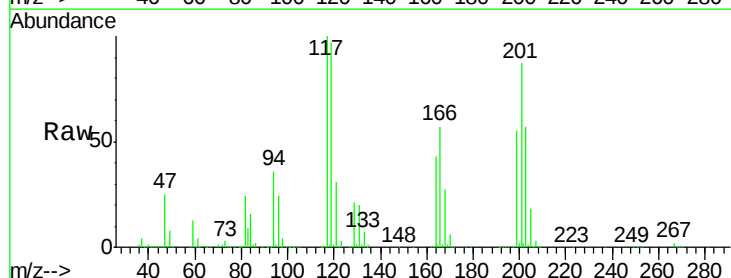
Manual Integrations
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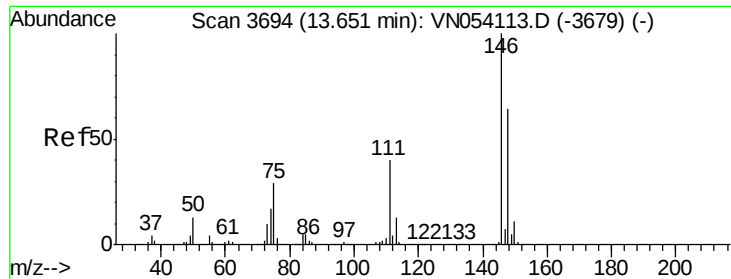
MMDadoda
3/7/2019 11:38:25 AM



#90
Hexachloroethane
Concen: 136.887 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. 0.00 min
Lab File: VN054115.D
Acq: 6 Mar 2019 12:22

Tgt Ion: 117 Resp: 770693
Ion Ratio Lower Upper
117 100
201 88.6 44.9 134.7





#91

1,2-Dichlorobenzene

Concen: 132.663 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN054115.D

Acq: 6 Mar 2019 12:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion:146 Resp: 2065677

Ion Ratio Lower Upper

146 100

111 39.7 20.0 60.0

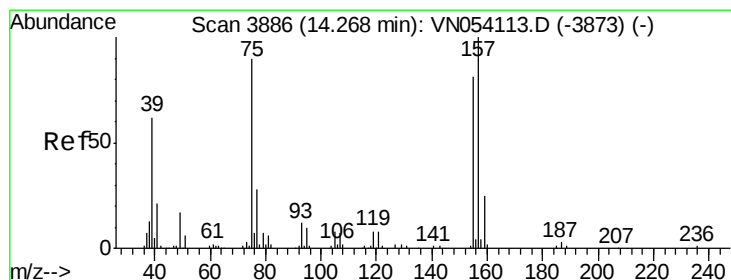
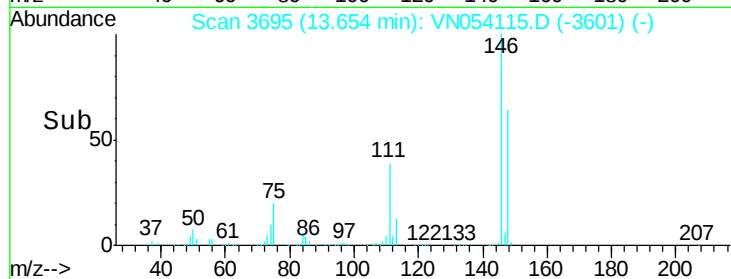
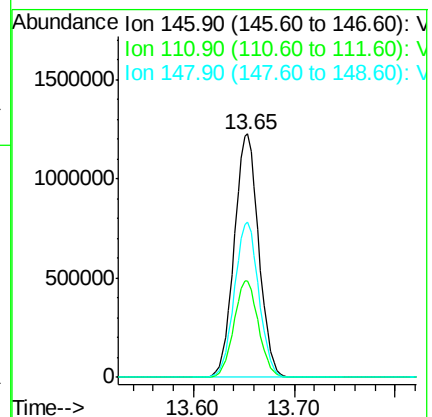
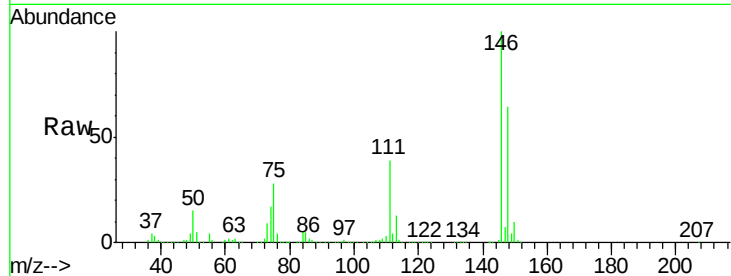
148 63.7 32.3 96.9

Manual Integrations

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#92

1,2-Dibromo-3-Chloropropane

Concen: 143.326 ug/l

RT: 14.27 min Scan# 3886

Delta R.T. 0.00 min

Lab File: VN054115.D

Acq: 6 Mar 2019 12:22

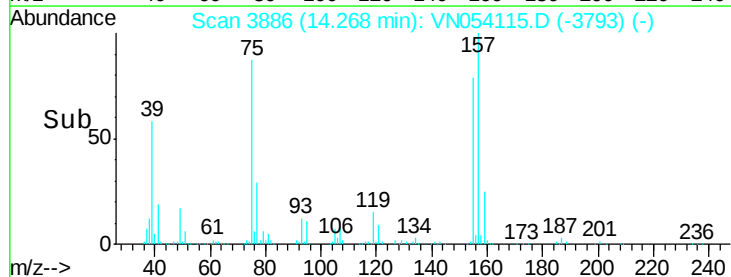
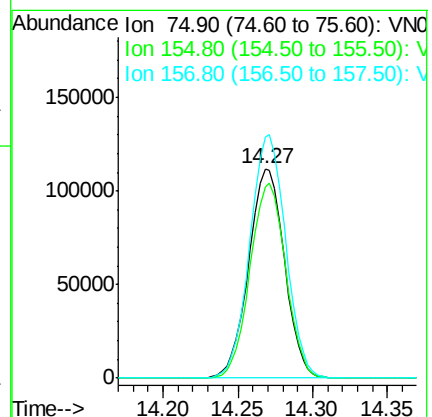
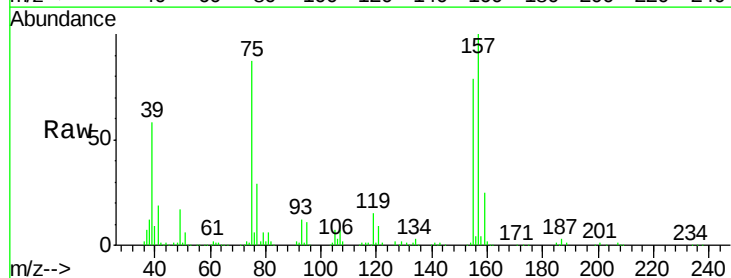
Tgt Ion: 75 Resp: 186908

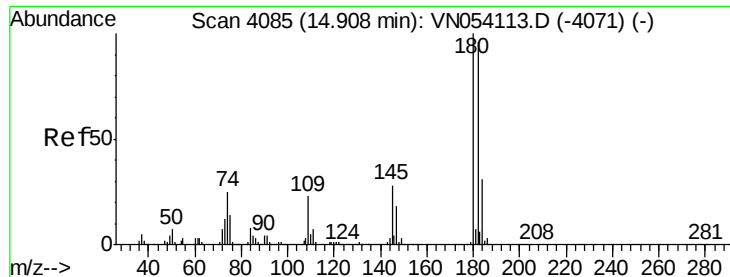
Ion Ratio Lower Upper

75 100

155 92.6 44.5 133.5

157 116.0 57.2 171.6





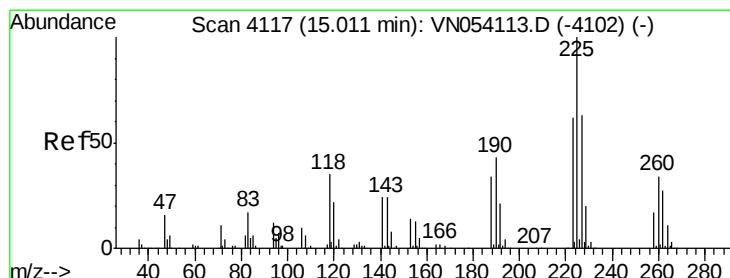
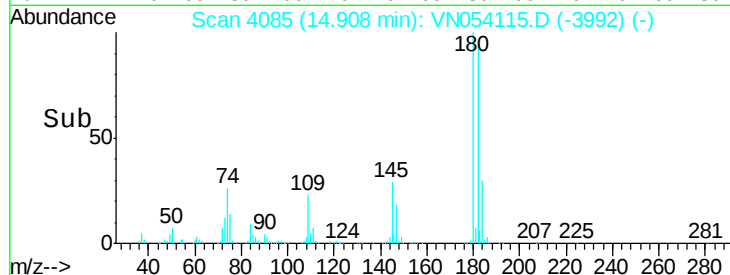
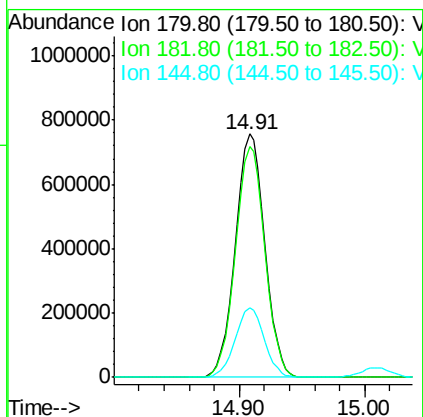
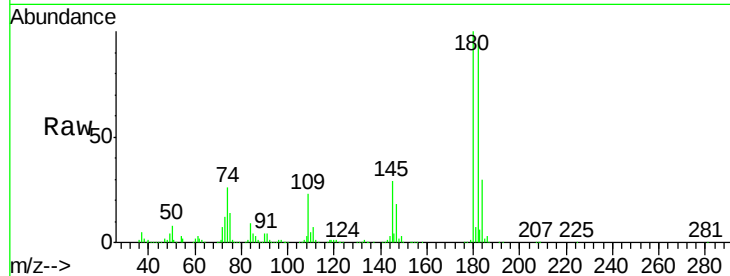
#93
1,2,4-Trichlorobenzene
Concen: 165.618 ug/l
RT: 14.91 min Scan# 4085
Delta R.T. 0.00 min
Lab File: VN054115.D
Acq: 6 Mar 2019 12:22

Instrument :
MSVOA_N
ClientSampled :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.0	48.1	144.3
145	28.3	13.9	41.7

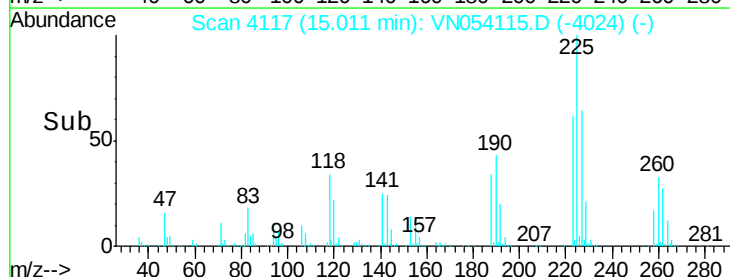
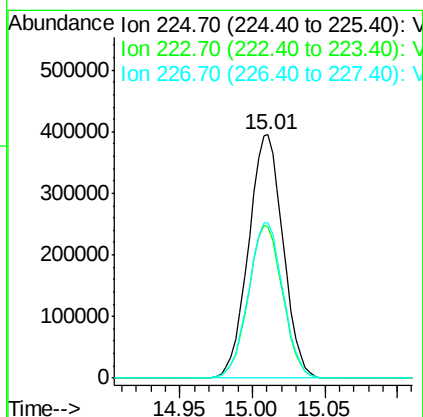
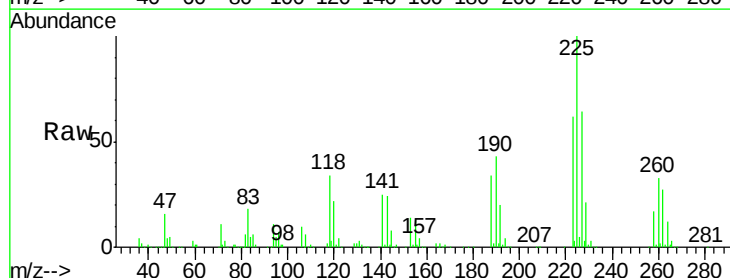
Manual Integrations
APPROVED

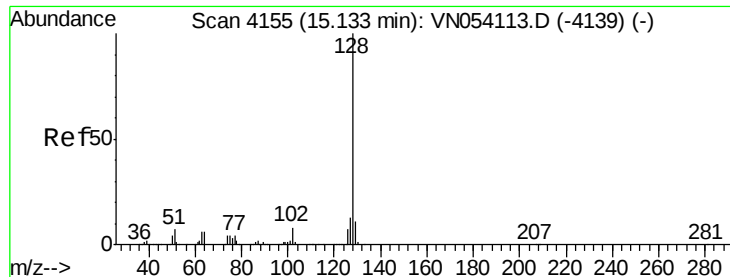
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#94
Hexachlorobutadiene
Concen: 117.488 ug/l
RT: 15.01 min Scan# 4117
Delta R.T. 0.00 min
Lab File: VN054115.D
Acq: 6 Mar 2019 12:22

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.3	31.2	93.6
227	64.1	31.9	95.7





#95

Naphthalene

Concen: 182.919 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN054115.D

Acq: 6 Mar 2019 12:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion:128 Resp: 2804258

Ion Ratio Lower Upper

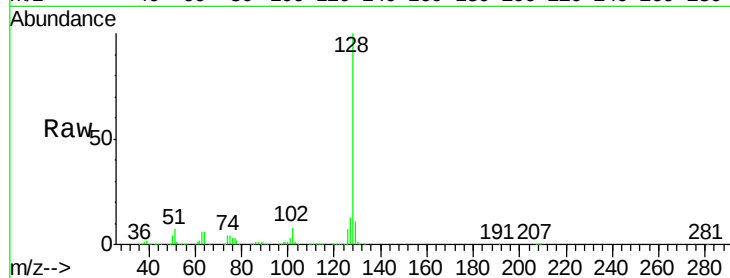
128 100

127 12.9 10.4 15.6

129 10.8 8.6 12.8

Manual Integrations
APPROVED

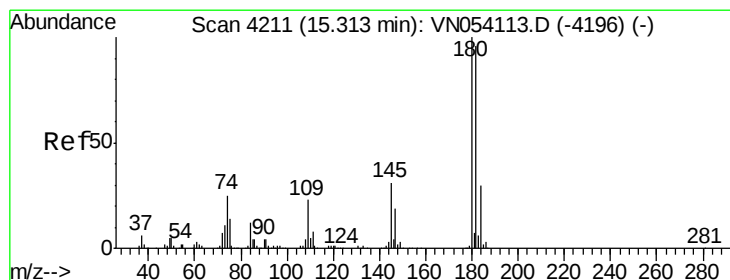
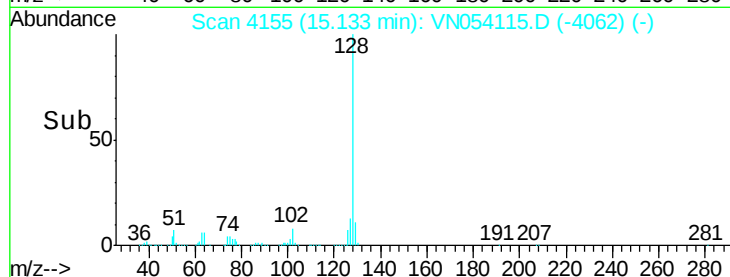
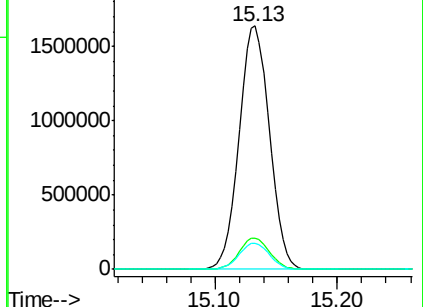
MMDadoda
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Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 158.271 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN054115.D

Acq: 6 Mar 2019 12:22

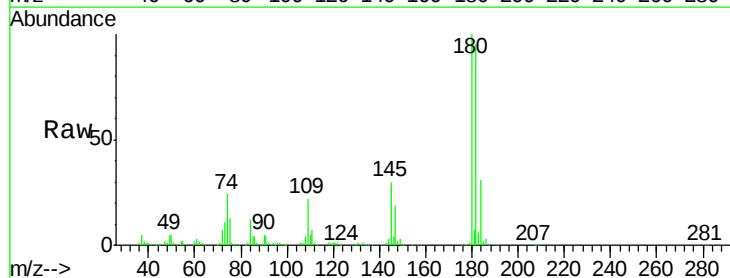
Tgt Ion:180 Resp: 1184064

Ion Ratio Lower Upper

180 100

182 94.8 47.9 143.7

145 30.1 14.9 44.5



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

