

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041219\
 Data File : VN054994.D
 Acq On : 12 Apr 2019 12:36
 Operator : JC/SP
 Sample : VN0412WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0412WBS01

Manual Integrations
 APPROVED

MMDadoda
 4/17/2019 9:36:54 AM

Quant Time: Apr 12 23:27:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N041119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 12 07:55:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	73702	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	406526	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	349507	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	172588	30.72	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.40%
60) 4-Bromofluorobenzene	12.40	95	158746	29.18	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.27%
63) Toluene-d8	10.09	98	511530	30.78	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	84660	19.531	ug/l 100
3) Chloromethane	2.06	50	118477	20.233	ug/l 97
4) Vinyl Chloride	2.19	62	101606	20.066	ug/l 98
5) Bromomethane	2.56	94	60077	20.511	ug/l 98
6) Chloroethane	2.71	64	57502	20.276	ug/l 94
7) Trichlorofluoromethane	3.02	101	129696	20.044	ug/l 95
8) Diethyl Ether	3.41	74	42981	20.688	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	3.75	101	69997	19.789	ug/l 71
10) 1,1-Dichloroethene	3.73	96	63737	19.490	ug/l 95
11) Methyl Iodide	3.94	142	100965	20.401	ug/l 99
12) Methyl Acetate	4.33	43	93506	23.246	ug/l 96
13) Acrolein	3.61	56	34555	98.020	ug/l 96
14) Acrylonitrile	5.00	53	183567	111.390	ug/l 97
15) Acetone	3.82	58	38172	93.606	ug/l 94
16) Carbon Disulfide	4.04	76	207519	18.918	ug/l 98
17) Allyl chloride	4.31	41	161034	19.996	ug/l 97
18) Methylene Chloride	4.55	84	96857	20.037	ug/l 98
19) trans-1,2-Dichloroethene	5.04	96	85098	19.990	ug/l 99
20) Diisopropyl ether	5.96	45	332694	20.392	ug/l 98
21) 1,1-Dichloroethane	5.85	63	180060	20.663	ug/l 100
22) cis-1,2-Dichloroethene	6.82	96	99434	20.095	ug/l 99
23) tert-Butyl Alcohol	4.83	59	30613	116.501	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	236107	21.502	ug/l # 63
25) Chloroform	7.37	83	173221	20.752	ug/l 98
26) Cyclohexane	7.65	56	158722	19.631	ug/l # 99
29) 1,1-Dichloropropene	7.79	75	125239	19.781	ug/l 98
30) 2-Butanone	6.85	43	224230	106.696	ug/l 100
31) 2,2-Dichloropropane	6.82	77	114472	19.645	ug/l # 100
32) 1,1,1-Trichloroethane	7.57	97	137416	20.535	ug/l 98
33) Carbon Tetrachloride	7.77	117	113071	19.516	ug/l 97
34) Benzene	8.04	78	381236	20.320	ug/l 99
35) Methacrylonitrile	7.18	41	52984	21.390	ug/l 92
36) 1,2-Dichloroethane	8.12	62	131873	20.566	ug/l 100
37) Trichloroethene	8.84	130	95082	19.879	ug/l 96
38) Methylcyclohexane	9.08	83	140899	19.191	ug/l 100
39) 1,2-Dichloropropane	9.12	63	107318	20.715	ug/l 99
40) Dibromomethane	9.21	93	60413	20.631	ug/l 97

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 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	121245	20.062	ug/l	98
42) Vinyl Acetate	5.90	43	1113313	104.786	ug/l	99
43) Ethyl Acetate	6.94	43	86542	20.213	ug/l	100
44) Isopropyl Acetate	8.17	43	157136	21.657	ug/l	98
45) 1,4-Dioxane	9.20	88	17714	440.682	ug/l	95
46) Methyl methacrylate	9.20	41	79527	21.188	ug/l	97
47) n-amyl Acetate	12.07	43	111213	20.811	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	106928	19.267	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	133839	19.535	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	84547	21.258	ug/l	99
51) Ethyl methacrylate	10.43	69	95955	20.239	ug/l	98
52) 1,3-Dichloropropane	10.71	76	146603	21.036	ug/l	100
53) Dibromochloromethane	10.90	129	81454	19.882	ug/l	100
54) 1,2-Dibromoethane	11.00	107	78389	20.994	ug/l	97
55) 2-Chloroethyl vinyl ether	9.70	63	191222	96.478	ug/l	100
56) Bromoform	12.13	173	49890	19.381	ug/l #	97
58) 4-Methyl-2-Pentanone	9.99	43	461779	114.570	ug/l	100
59) 2-Hexanone	10.75	43	283621	110.767	ug/l	99
61) Tetrachloroethene	10.63	164	92050	20.238	ug/l	95
62) Toluene	10.16	91	392253	20.369	ug/l	98
64) Chlorobenzene	11.43	112	236815	20.369	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	85052	20.569	ug/l	98
66) Ethyl Benzene	11.51	91	415754	20.140	ug/l	100
67) m/p-Xylenes	11.62	106	312499	40.725	ug/l	100
68) o-Xylene	11.95	106	153804	20.283	ug/l	99
69) Styrene	11.96	104	230301	19.558	ug/l	98
70) Isopropylbenzene	12.25	105	413508	20.395	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	103269	22.270	ug/l	98
72) 1,2,3-Trichloropropane	12.55	75	87971m	22.971	ug/l	
73) Bromobenzene	12.53	156	93948	19.605	ug/l	96
74) n-propylbenzene	12.59	91	447067	19.697	ug/l	100
75) 2-Chlorotoluene	12.67	91	277106	20.243	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	329798	20.120	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	19109	19.796	ug/l	98
78) 4-Chlorotoluene	12.77	91	252213	19.337	ug/l	99
79) tert-butylbenzene	12.99	119	284126	20.033	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	319312	19.830	ug/l	98
81) sec-Butylbenzene	13.17	105	380892	20.099	ug/l	99
82) p-Isopropyltoluene	13.29	119	309522	19.353	ug/l	100
83) 1,3-Dichlorobenzene	13.28	146	155558	19.403	ug/l	100
84) 1,4-Dichlorobenzene	13.36	146	141541	18.579	ug/l	98
85) n-Butylbenzene	13.61	91	225438	17.695	ug/l	99
86) Hexachloroethane	13.87	117	48091	18.783	ug/l	96
87) 1,2-Dichlorobenzene	13.65	146	159010	20.253	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	11969	19.420	ug/l	91
89) 1,2,4-Trichlorobenzene	14.91	180	55153	15.713	ug/l	91
90) Hexachlorobutadiene	15.01	225	47397	18.520	ug/l	98
91) Naphthalene	15.13	128	127571	17.357	ug/l	98
92) 1,2,3-Trichlorobenzene	15.31	180	62378	17.769	ug/l	98

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ClientSampleId :
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

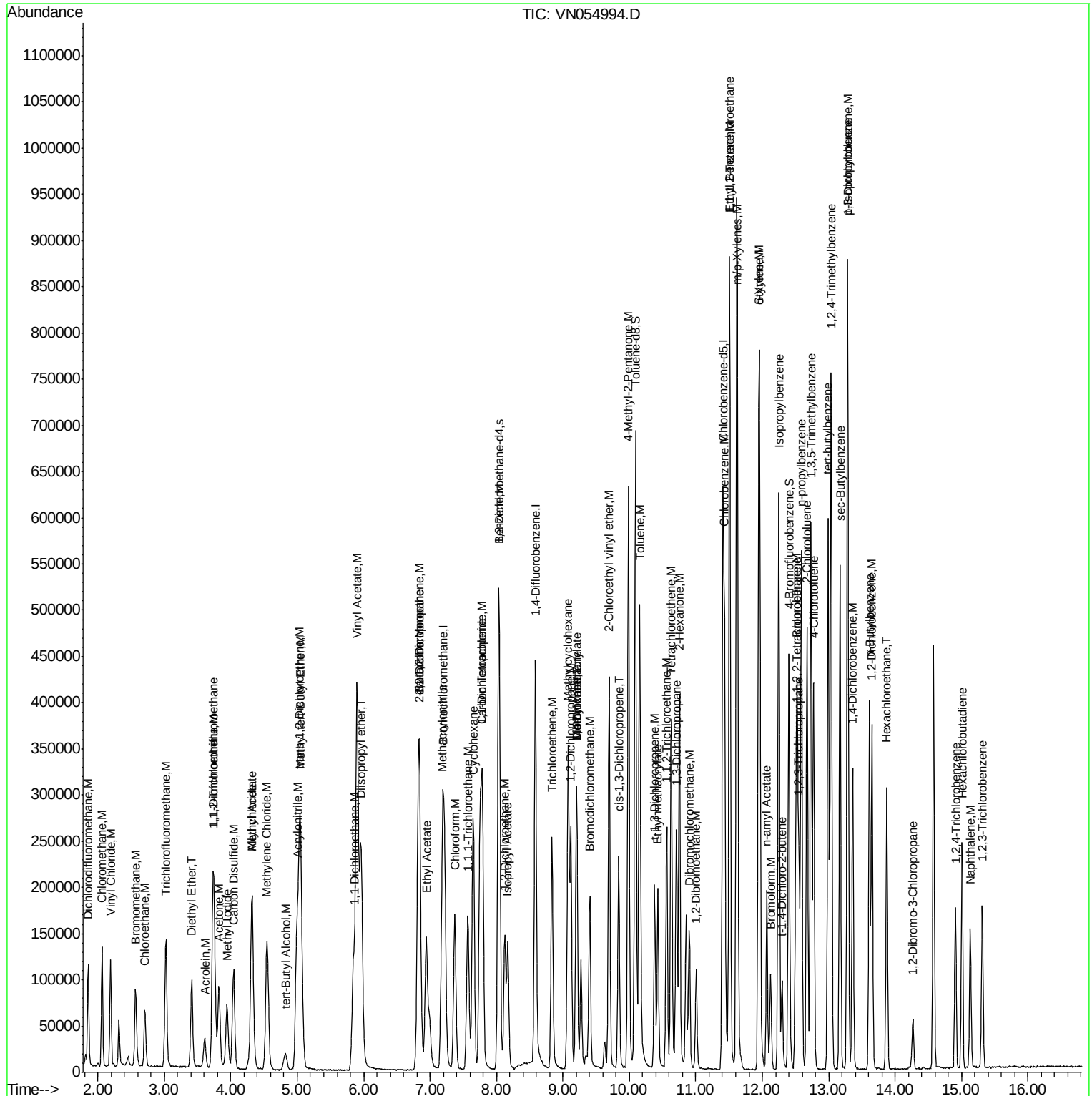
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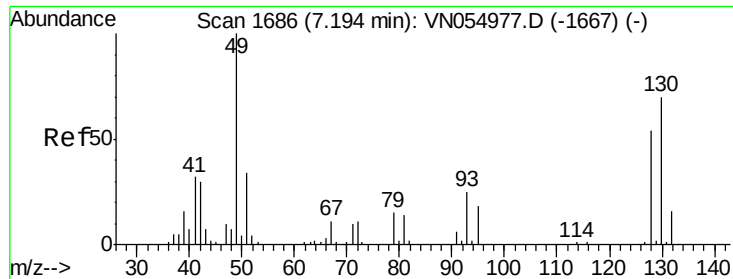
Instrument :
MSVOA_N
Client Sampled :
VN0412WBS01

Manual Integrations
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4/17/2019 9:36:54 AM

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#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. 0.00 min

Lab File: VN054994.D

Acq: 12 Apr 2019 12:36

Instrument :

MSVOA_N

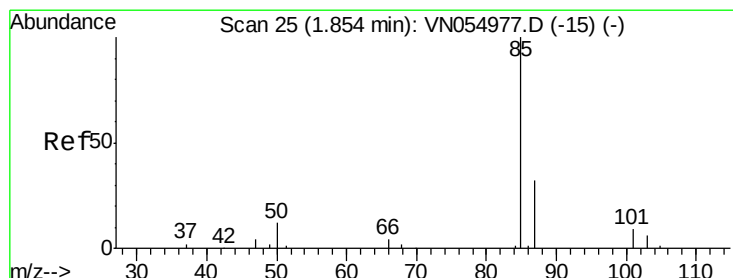
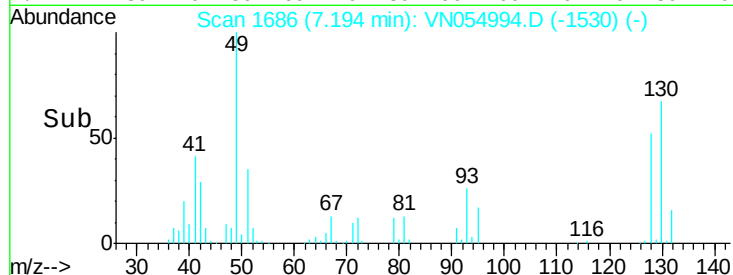
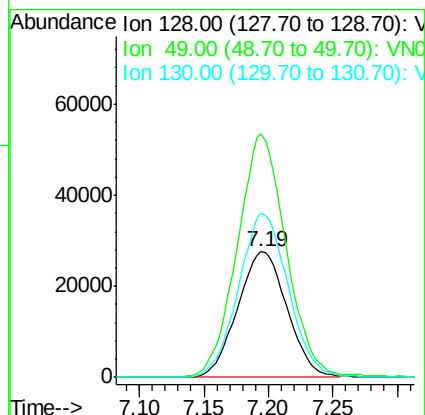
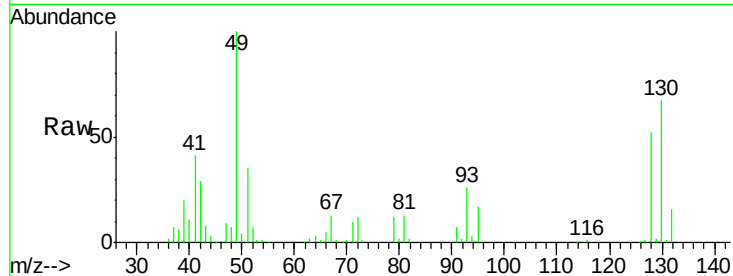
ClientSampleId :

VN0412WBS01

Tot Ion:	128	Resp:	73702
Ion	Ratio	Lower	Upper
128	100		
49	190.2	0.0	480.3
130	130.9	0.0	322.2

Manual Integrations
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4/17/2019 9:36:54 AM



#2

Dichlorodifluoromethane

Concen: 19.531 ug/l

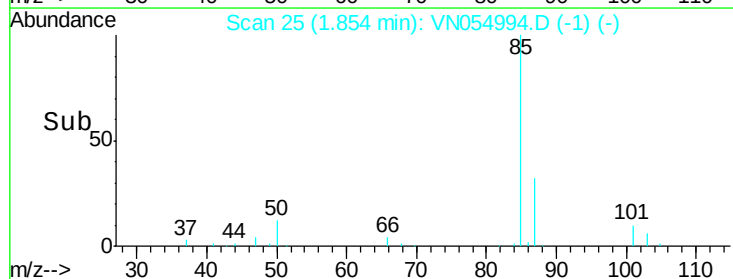
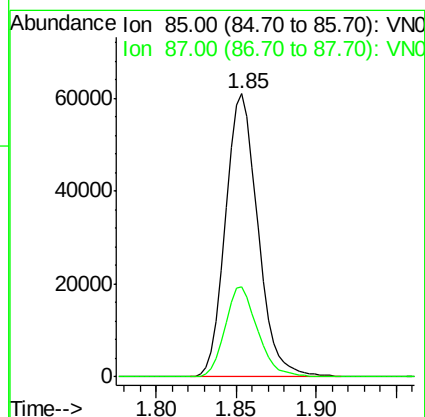
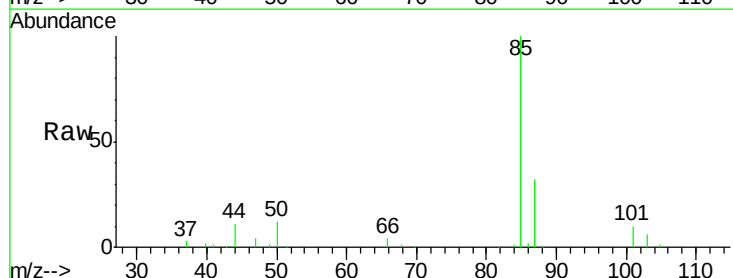
RT: 1.85 min Scan# 25

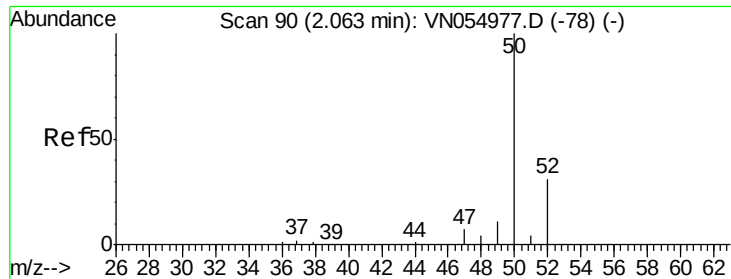
Delta R.T. 0.00 min

Lab File: VN054994.D

Acq: 12 Apr 2019 12:36

Tgt Ion:	85	Resp:	84660
Ion	Ratio	Lower	Upper
85	100		
87	31.9	16.1	48.3





#3

Chloromethane

Concen: 20.233 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN054994.D

Acq: 12 Apr 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

VN0412WBS01

Tot Ion: 50 Resp: 118477

Ion Ratio Lower Upper

50 100

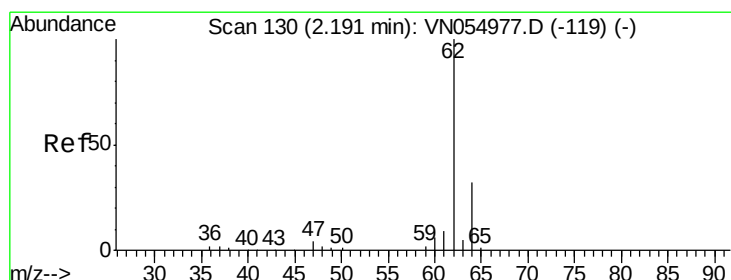
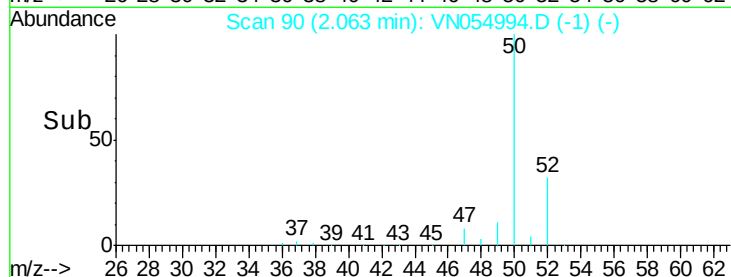
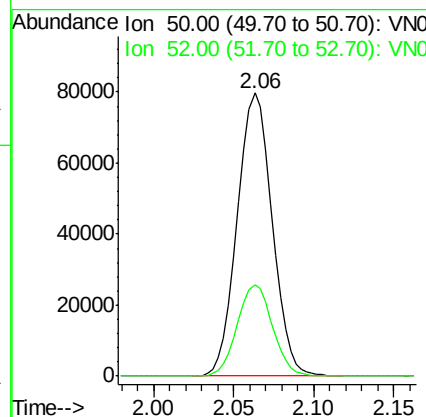
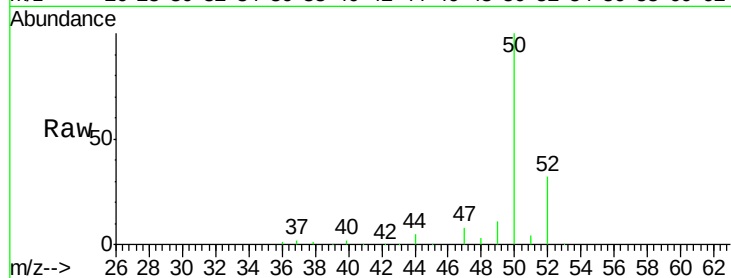
52 32.4 24.5 36.7

Manual Integrations

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#4

Vinyl Chloride

Concen: 20.066 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN054994.D

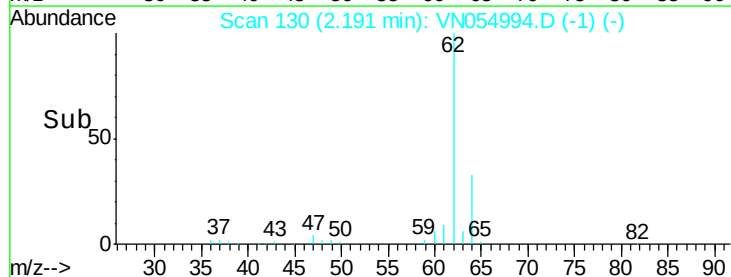
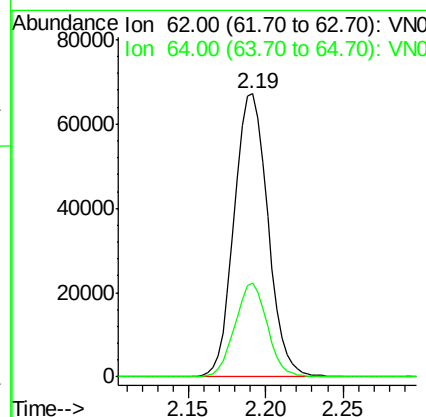
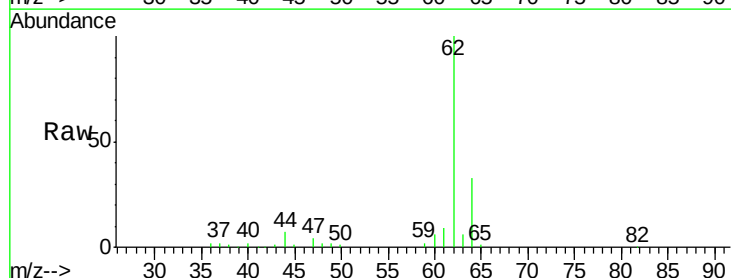
Acq: 12 Apr 2019 12:36

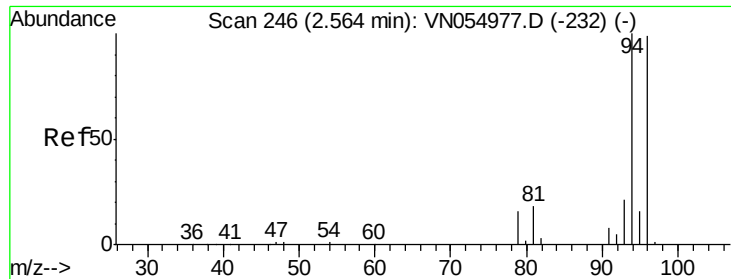
Tgt Ion: 62 Resp: 101606

Ion Ratio Lower Upper

62 100

64 33.3 25.6 38.4





#5

Bromomethane

Concen: 20.511 ug/l

RT: 2.56 min Scan# 246

Delta R.T. 0.00 min

Lab File: VN054994.D

Acq: 12 Apr 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

VN0412WBS01

Tot Ion: 94 Resp: 60077

Ion Ratio Lower Upper

94 100

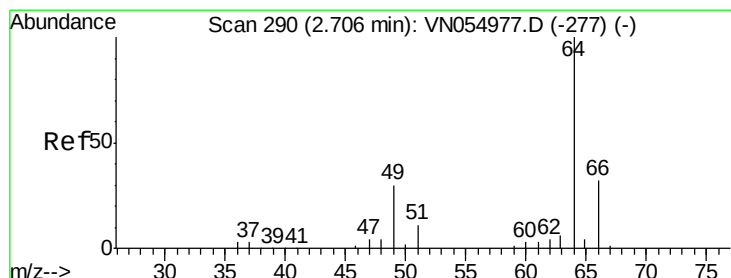
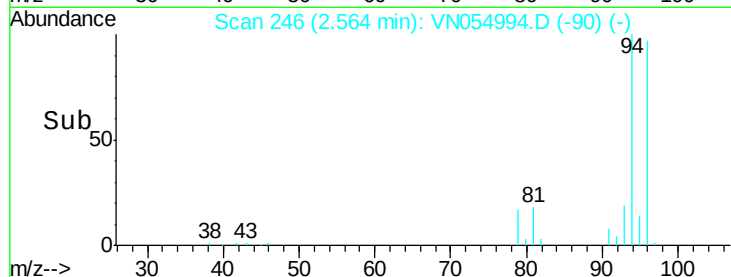
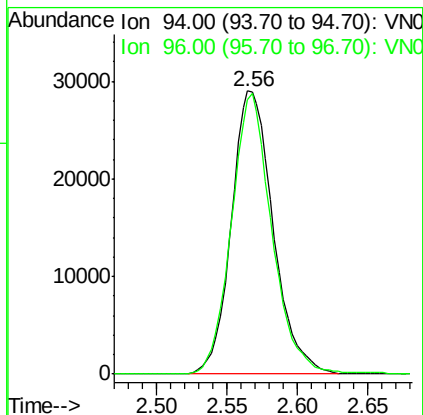
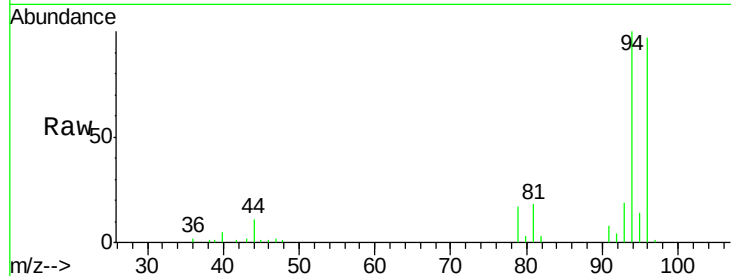
96 96.9 79.1 118.7

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#6

Chloroethane

Concen: 20.276 ug/l

RT: 2.71 min Scan# 291

Delta R.T. 0.00 min

Lab File: VN054994.D

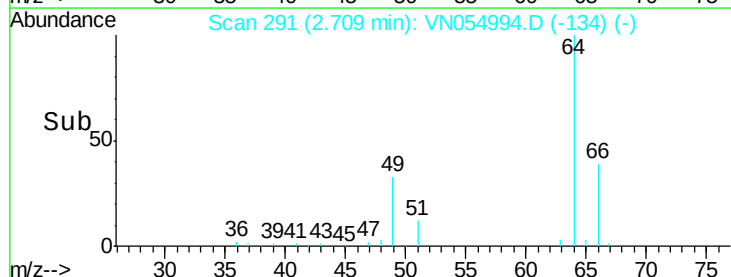
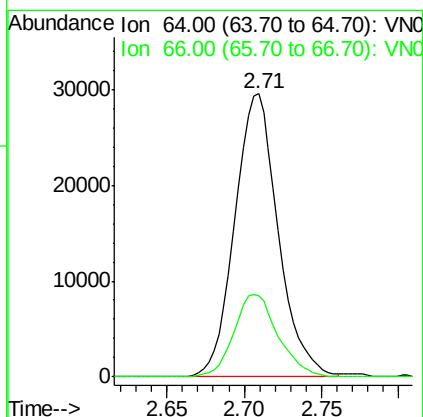
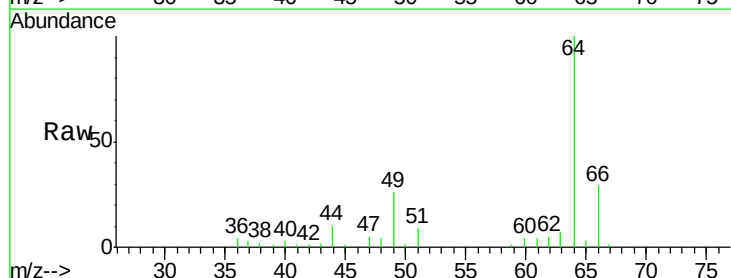
Acq: 12 Apr 2019 12:36

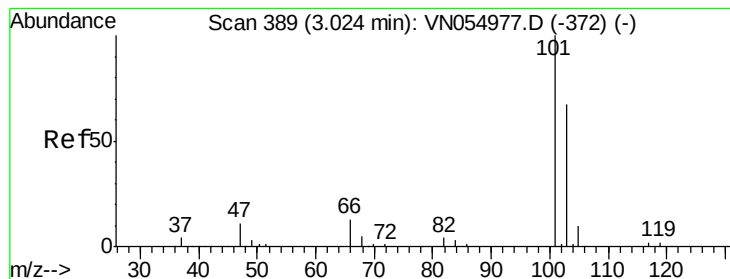
Tgt Ion: 64 Resp: 57502

Ion Ratio Lower Upper

64 100

66 28.7 25.7 38.5





#7

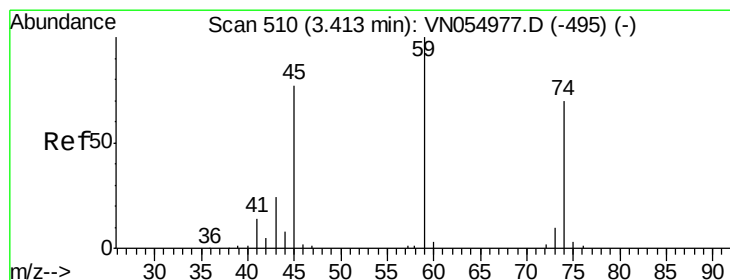
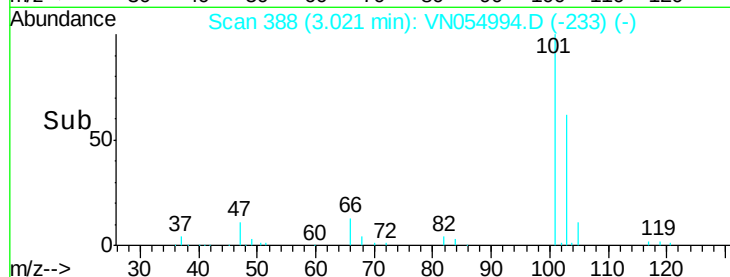
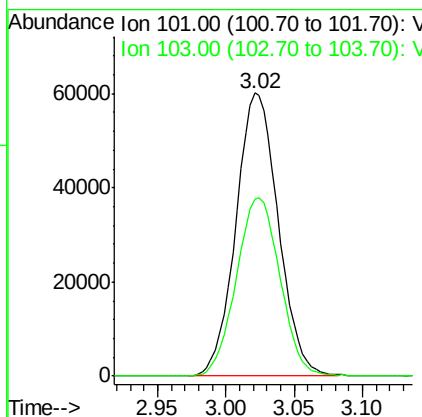
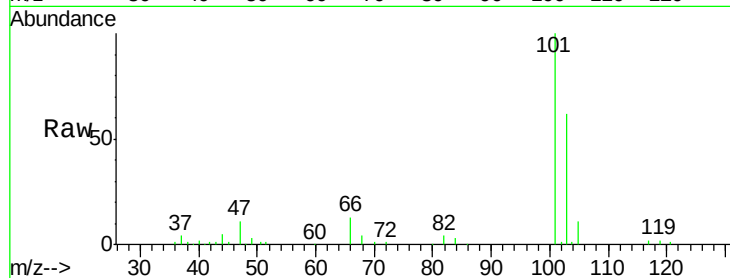
Trichlorofluoromethane
Concen: 20.044 ug/l
RT: 3.02 min Scan# 388
Delta R.T. -0.00 min
Lab File: VN054994.D
Acq: 12 Apr 2019 12:36

Instrument :
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ClientSampleId :
VN0412WBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	62.5	53.4	80.0

Manual Integrations
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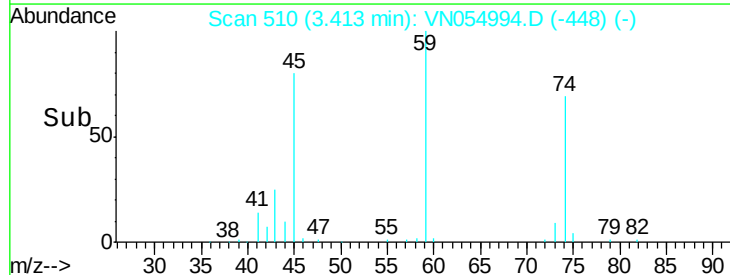
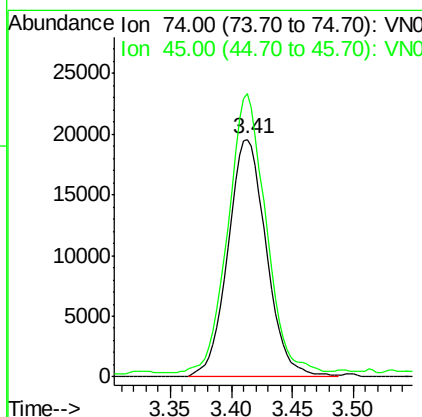
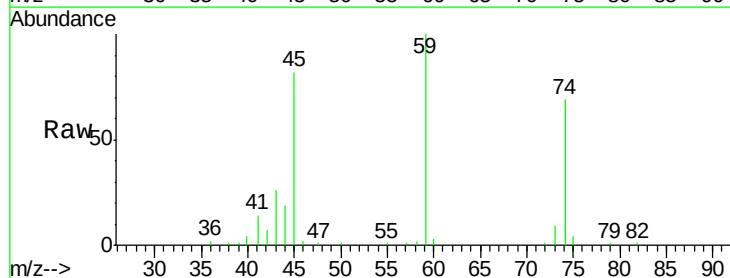
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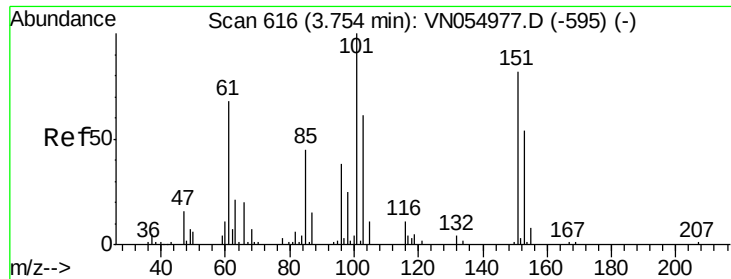


#8

Diethyl Ether
Concen: 20.688 ug/l
RT: 3.41 min Scan# 510
Delta R.T. 0.00 min
Lab File: VN054994.D
Acq: 12 Apr 2019 12:36

Tgt Ion	Ratio	Lower	Upper
74	100		
45	115.3	22.9	205.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.789 ug/l

RT: 3.75 min Scan# 615

Delta R.T. -0.00 min

Lab File: VN054994.D

Acq: 12 Apr 2019 12:36

Instrument :

MSVOA_N

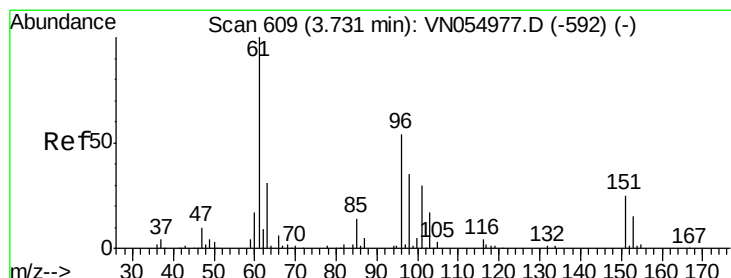
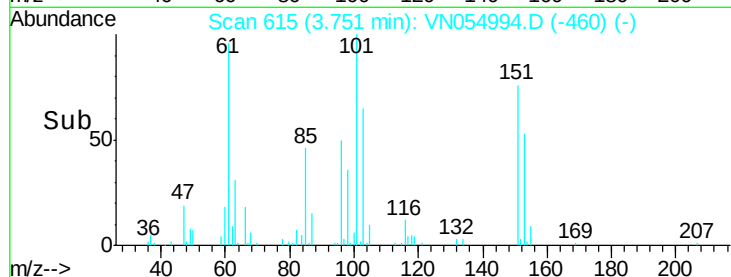
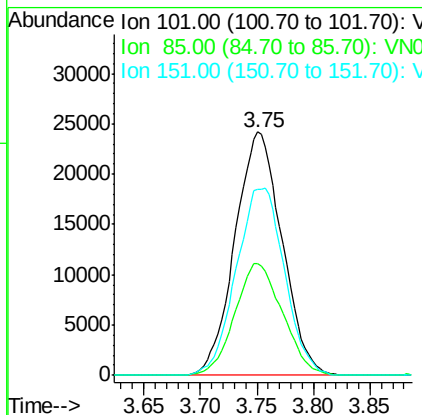
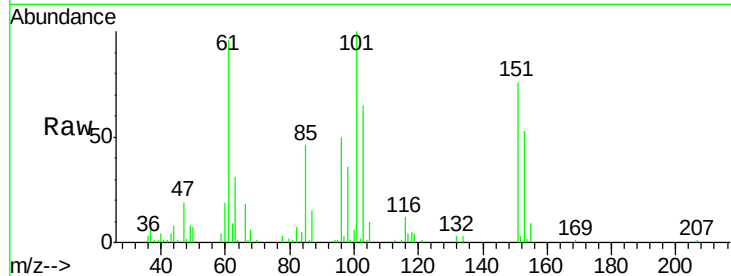
ClientSampleId :

VN0412WBS01

Tot Ion:	101	Resp:	69997
Ion Ratio	Lower	Upper	
101	100		
85	46.6	0.0	91.4
151	43.6	0.0	165.6

Manual Integrations
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4/17/2019 9:36:54 AM



#10

1,1-Dichloroethene

Concen: 19.490 ug/l

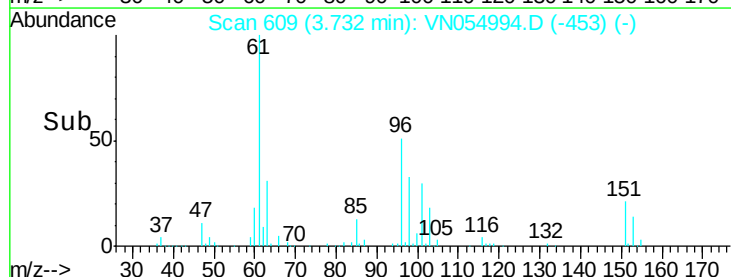
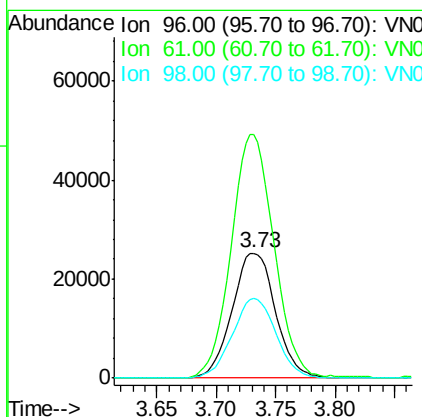
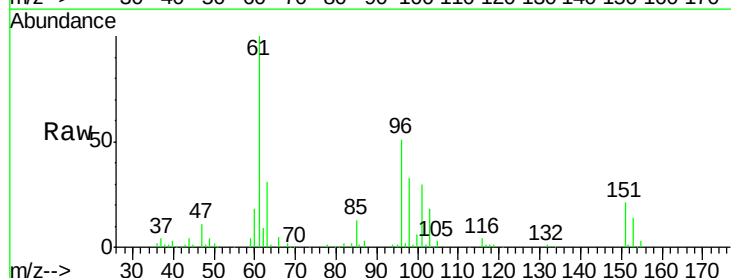
RT: 3.73 min Scan# 609

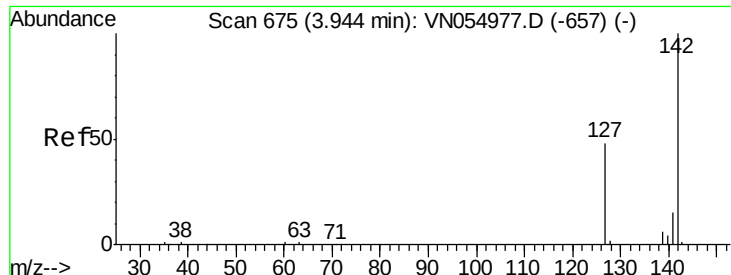
Delta R.T. 0.00 min

Lab File: VN054994.D

Acq: 12 Apr 2019 12:36

Tgt Ion:	96	Resp:	63737
Ion Ratio	Lower	Upper	
96	100		
61	194.7	148.4	222.6
98	63.5	52.2	78.2





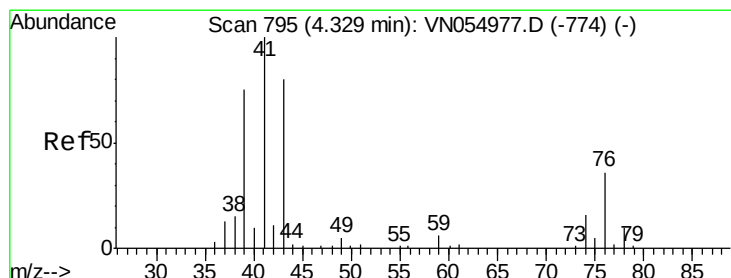
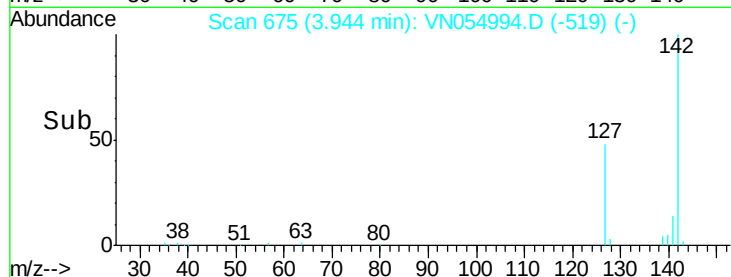
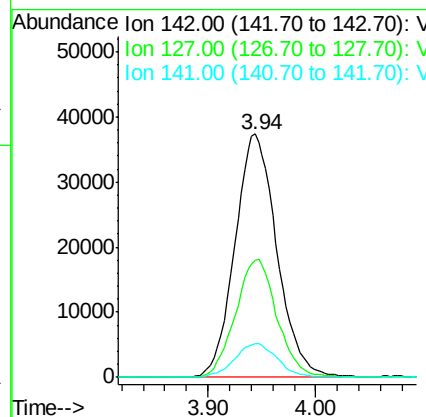
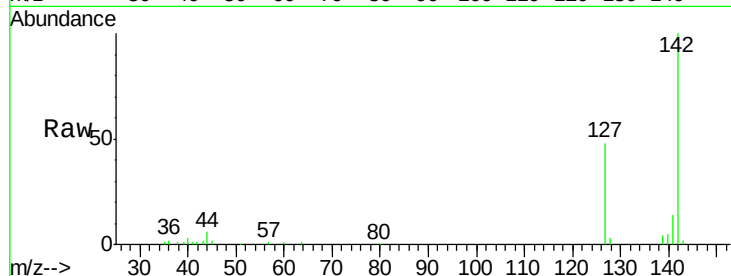
#11
Methvl Iodide
Concen: 20.401 ug/l
RT: 3.94 min Scan# 675
Delta R.T. 0.00 min
Lab File: VN054994.D
Acq: 12 Apr 2019 12:36

Instrument :
MSVOA_N
ClientSampleId :
VN0412WBS01

Tot Ion	Ratio	Lower	Upper
142	100		
127	48.1	23.8	71.5
141	13.7	7.3	22.0

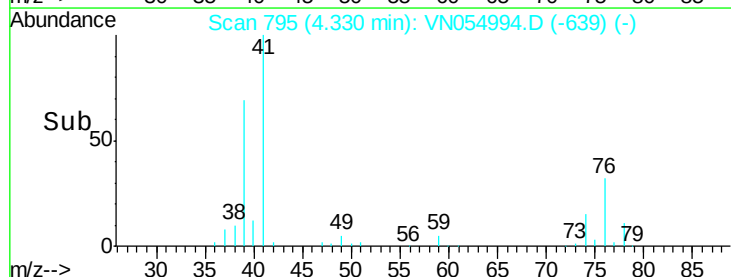
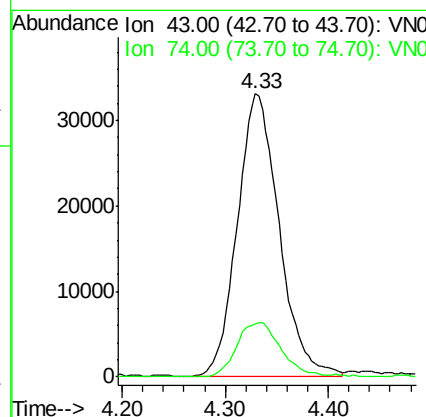
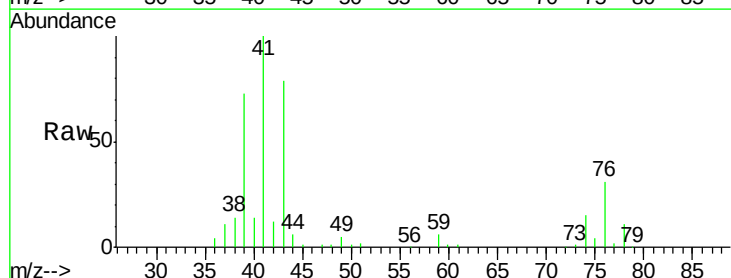
Manual Integrations
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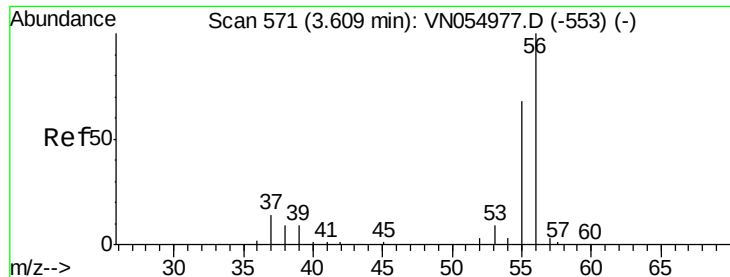
MMDadoda
4/17/2019 9:36:54 AM



#12
Methyl Acetate
Concen: 23.246 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN054994.D
Acq: 12 Apr 2019 12:36

Tgt Ion	Ratio	Lower	Upper
43	100		
74	18.7	16.2	24.4





#13

Acrolein

Concen: 98.020 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN054994.D

Acq: 12 Apr 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

VN0412WBS01

Tot Ion: 56 Resp: 34555

Ion Ratio Lower Upper

56 100

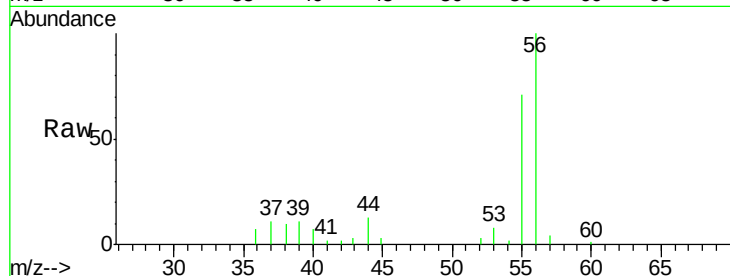
55 74.1 57.0 85.4

Manual Integrations

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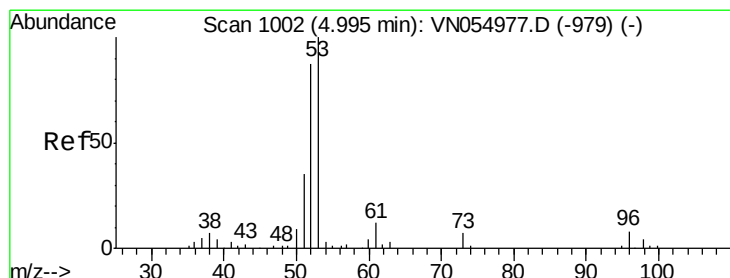
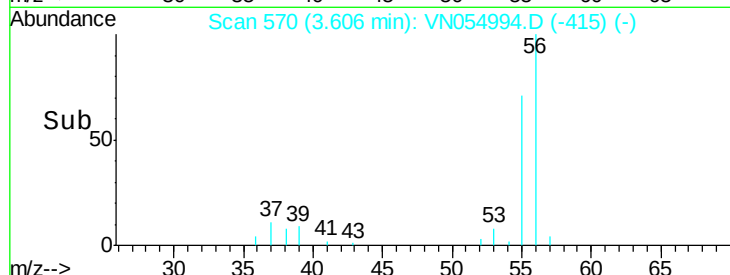
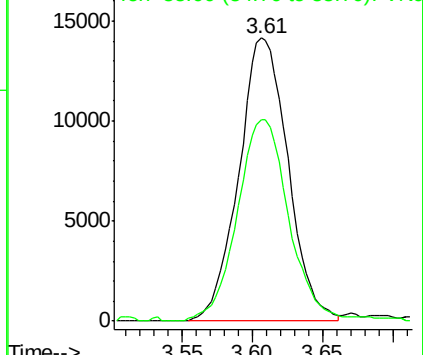
MMDadoda

4/17/2019 9:36:54 AM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Acrylonitrile

Concen: 111.390 ug/l

RT: 5.00 min Scan# 1002

Delta R.T. 0.00 min

Lab File: VN054994.D

Acq: 12 Apr 2019 12:36

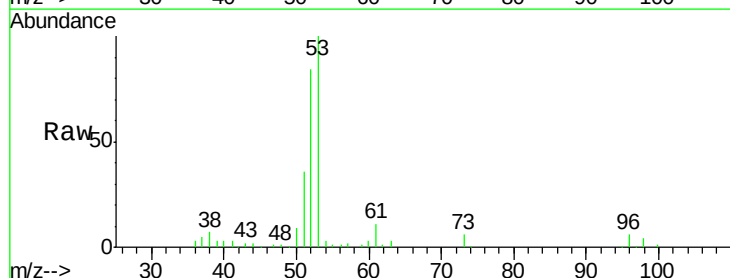
Tgt Ion: 53 Resp: 183567

Ion Ratio Lower Upper

53 100

52 82.0 42.3 126.8

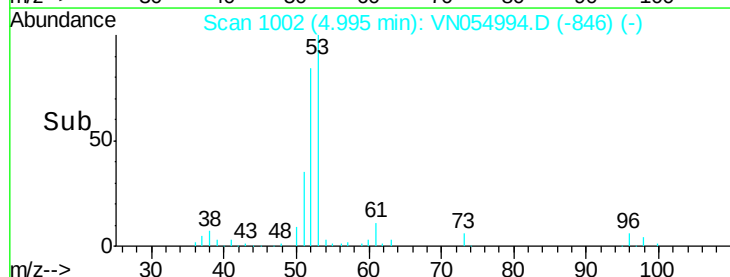
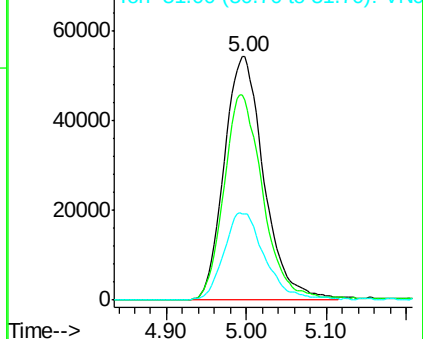
51 35.5 18.6 56.0

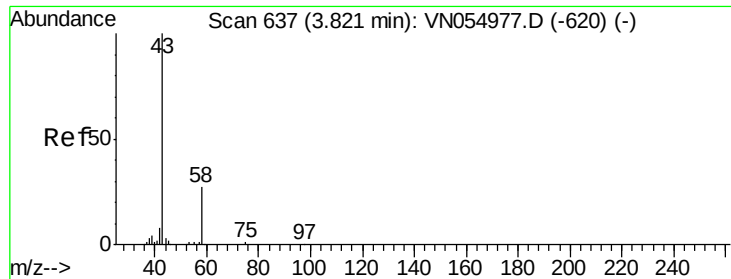


Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0





#15

Acetone

Concen: 93.606 ug/l

RT: 3.82 min Scan# 636

Delta R.T. -0.00 min

Lab File: VN054994.D

Acq: 12 Apr 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

VN0412WBS01

Tot Ion: 58 Resp: 38172

Ion Ratio Lower Upper

58 100

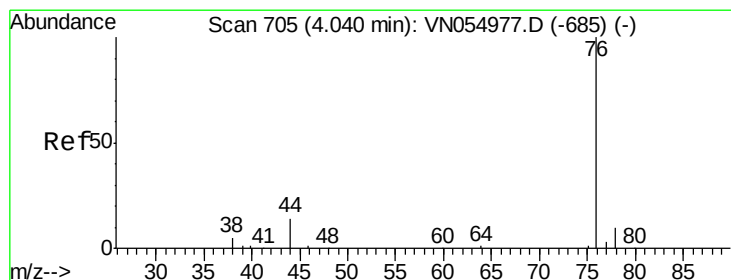
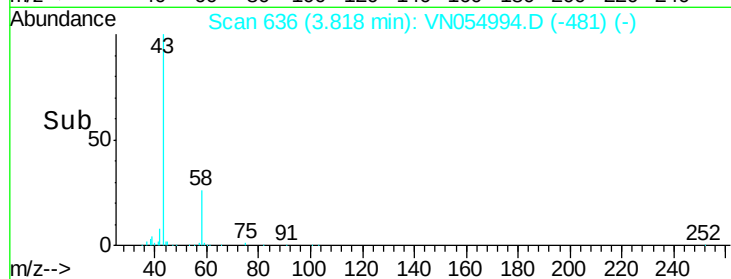
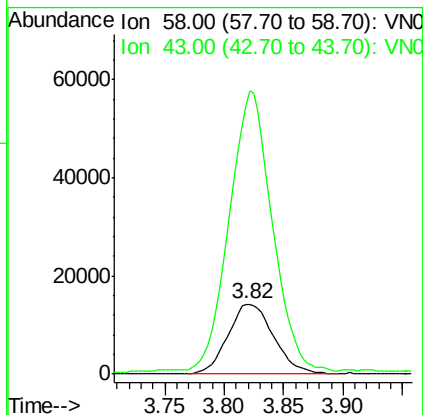
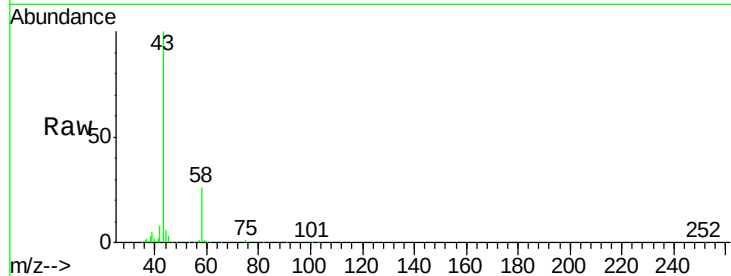
43 385.1 297.2 445.8

Manual Integrations

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#16

Carbon Disulfide

Concen: 18.918 ug/l

RT: 4.04 min Scan# 706

Delta R.T. 0.00 min

Lab File: VN054994.D

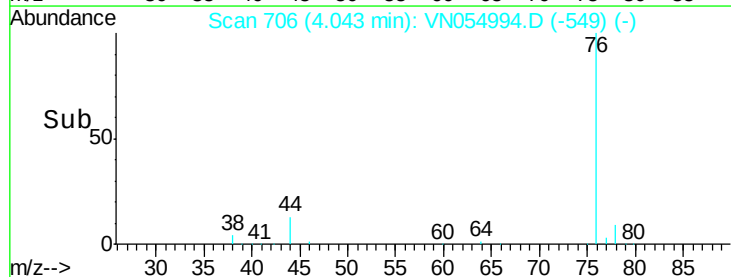
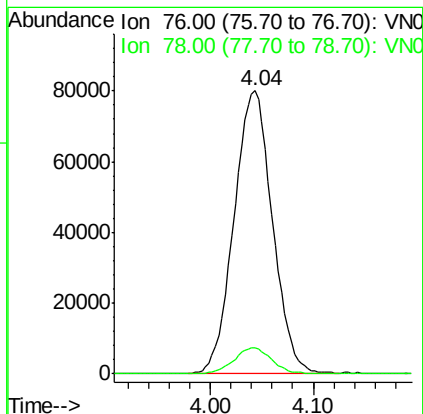
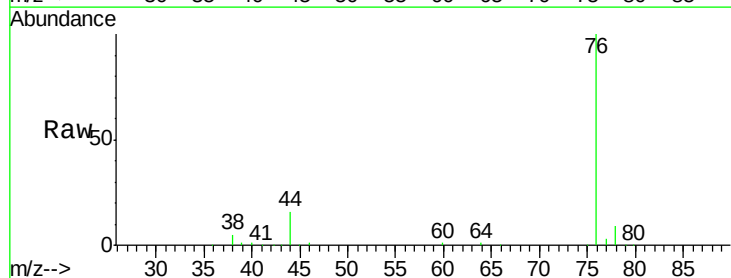
Acq: 12 Apr 2019 12:36

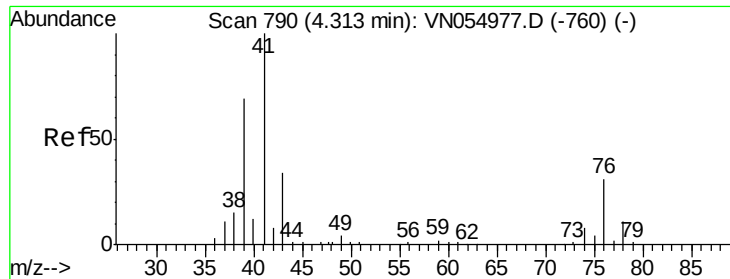
Tgt Ion: 76 Resp: 207519

Ion Ratio Lower Upper

76 100

78 9.1 7.8 11.6





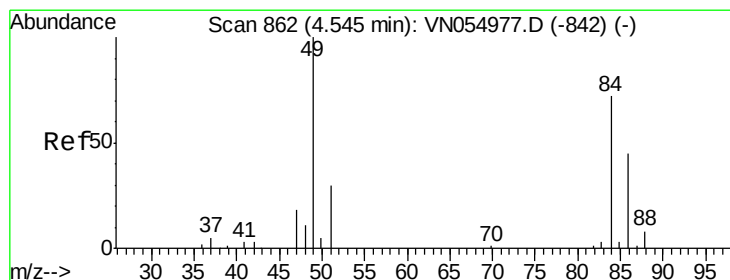
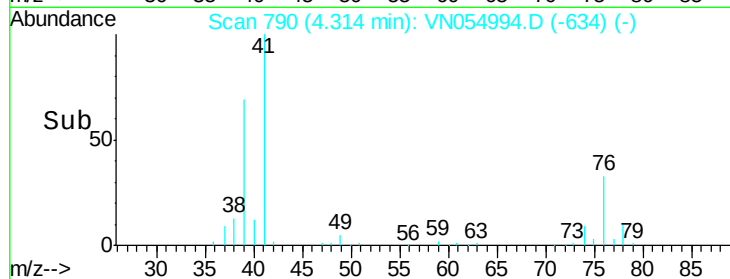
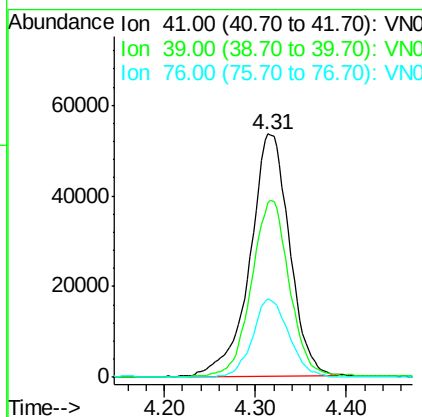
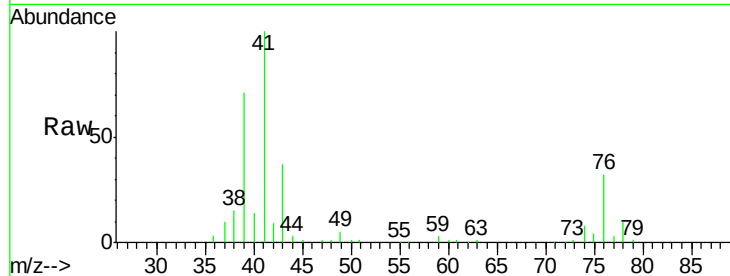
#17
Allvl chloride
Concen: 19.996 ug/l
RT: 4.31 min Scan# 790
Delta R.T. 0.00 min
Lab File: VN054994.D
Acq: 12 Apr 2019 12:36

Instrument :
MSVOA_N
ClientSampleId :
VN0412WBS01

Tot Ion	Ratio	Lower	Upper
41	100		
39	71.6	34.3	102.9
76	32.5	15.8	47.3

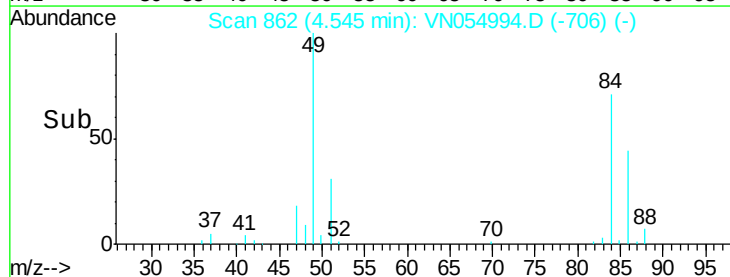
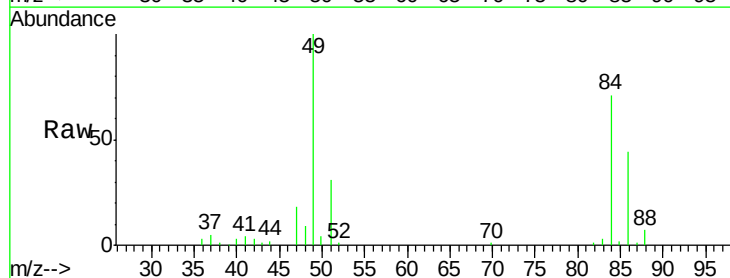
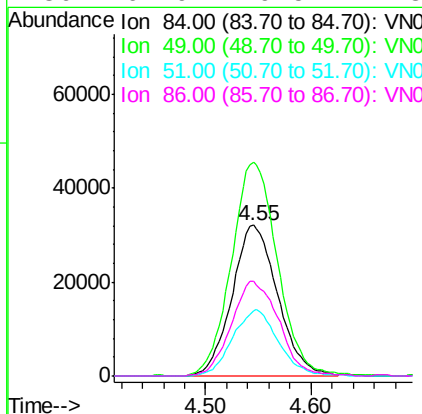
Manual Integrations
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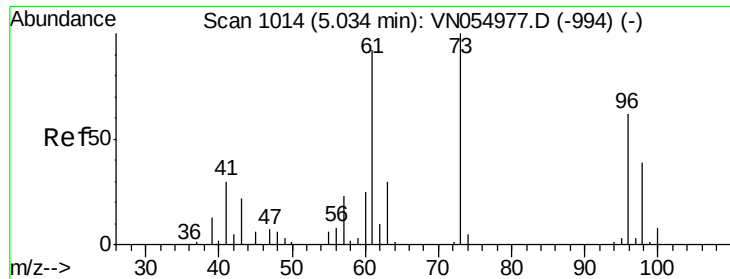
MMDadoda
4/17/2019 9:36:54 AM



#18
Methylene Chloride
Concen: 20.037 ug/l
RT: 4.55 min Scan# 862
Delta R.T. 0.00 min
Lab File: VN054994.D
Acq: 12 Apr 2019 12:36

Tgt Ion	Ratio	Lower	Upper
84	100		
49	140.9	111.0	166.4
51	43.4	33.4	50.2
86	61.9	49.5	74.3





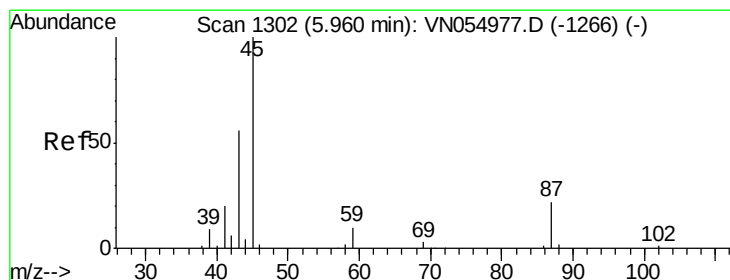
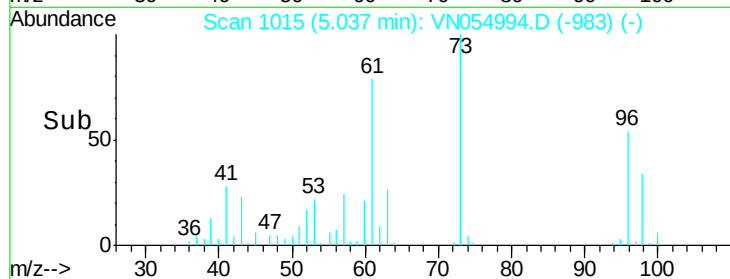
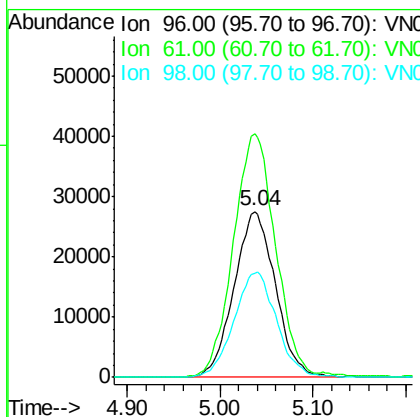
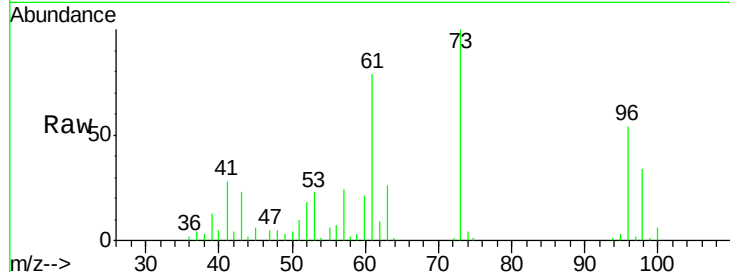
#19
trans-1,2-Dichloroethene
Concen: 19.990 ug/l
RT: 5.04 min Scan# 1015
Delta R.T. 0.00 min
Lab File: VN054994.D
Acq: 12 Apr 2019 12:36

Instrument :
MSVOA_N
ClientSampled :
VN0412WBS01

Tot Ion	Ion	Ratio	Lower	Upper
96	100			
61	146.2	117.2	175.8	
98	63.1	49.4	74.2	

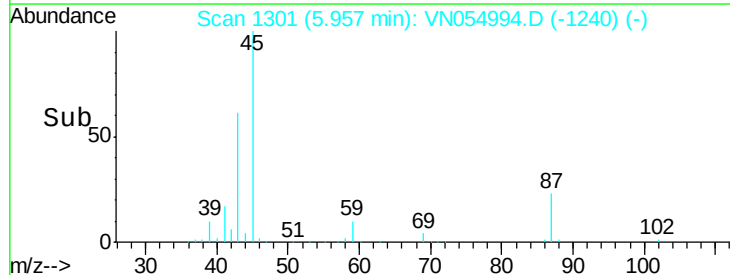
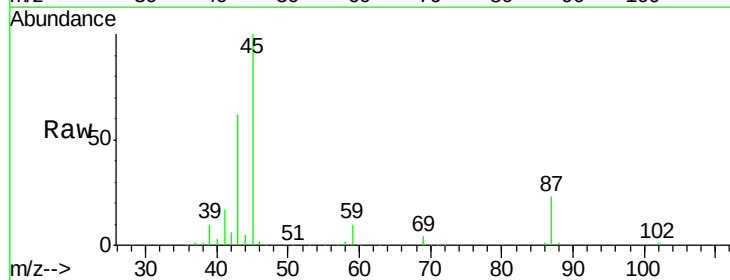
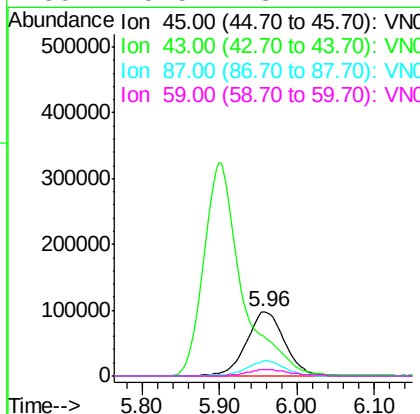
Manual Integrations
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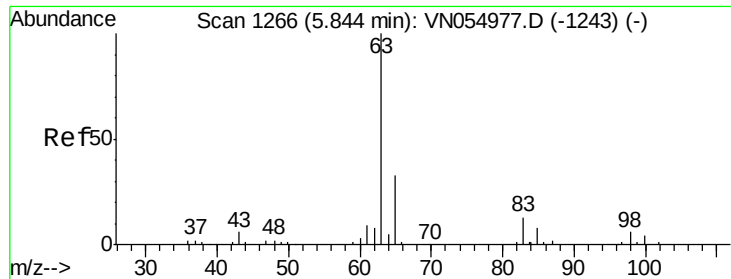
MMDadoda
4/17/2019 9:36:54 AM



#20
Diisopropyl ether
Concen: 20.392 ug/l
RT: 5.96 min Scan# 1301
Delta R.T. -0.00 min
Lab File: VN054994.D
Acq: 12 Apr 2019 12:36

Tgt Ion	Ion	Ratio	Lower	Upper
45	100			
43	59.4	45.8	68.8	
87	23.1	18.2	27.4	
59	9.5	8.2	12.2	





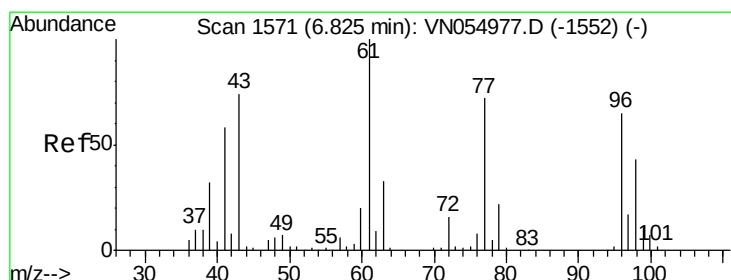
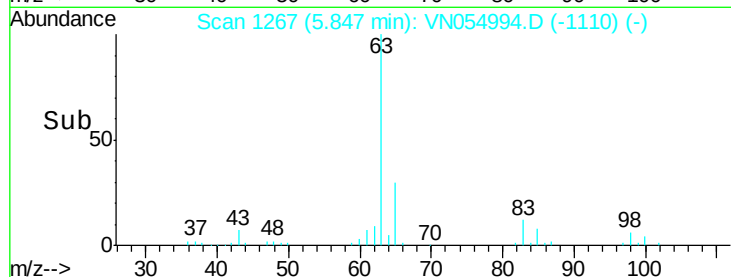
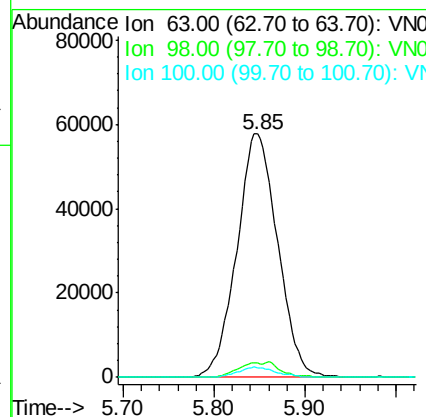
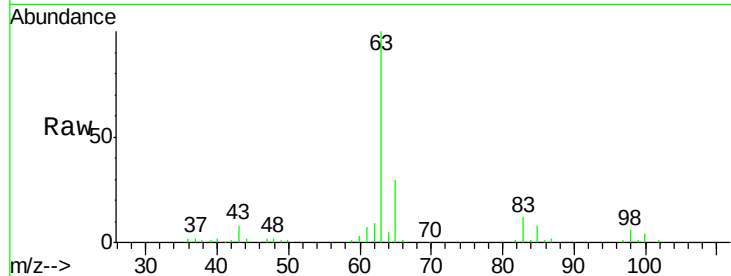
#21
 1,1-Dichloroethane
 Concen: 20.663 ug/l
 RT: 5.85 min Scan# 1267
 Delta R.T. 0.00 min
 Lab File: VN054994.D
 Acq: 12 Apr 2019 12:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0412WBS01

Tot Ion	Ratio	Resp	Lower	Upper
63	100			
98	5.8	2.9	8.7	
100	4.1	2.0	5.8	

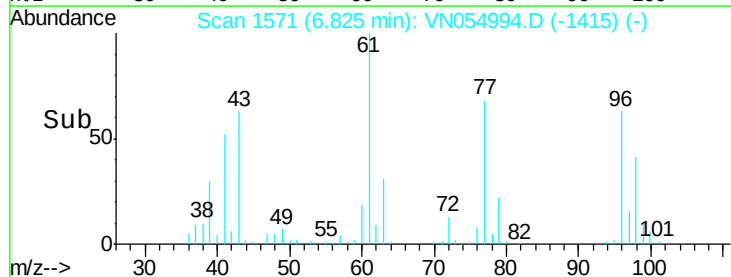
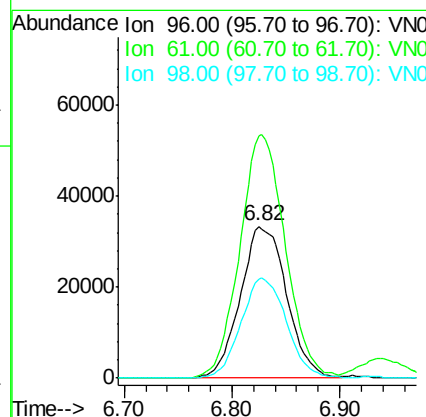
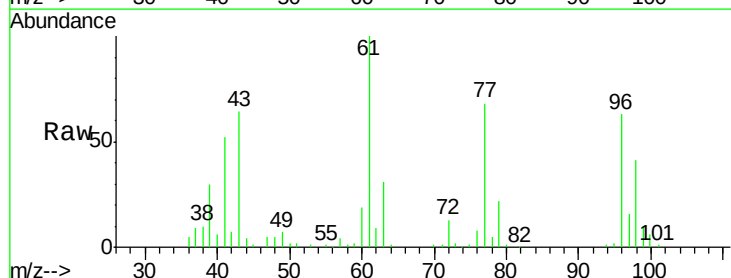
Manual Integrations
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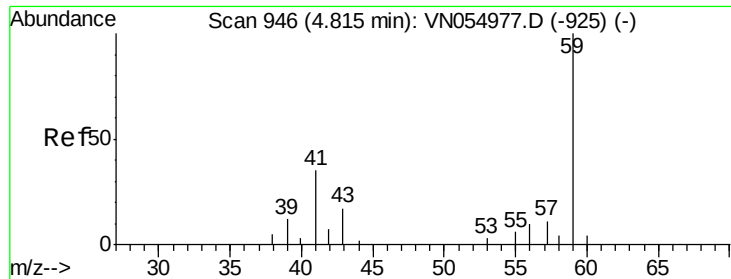
MMDadoda
 4/17/2019 9:36:54 AM



#22
 cis-1,2-Dichloroethene
 Concen: 20.095 ug/l
 RT: 6.82 min Scan# 1571
 Delta R.T. 0.00 min
 Lab File: VN054994.D
 Acq: 12 Apr 2019 12:36

Tgt Ion	Ratio	Resp	Lower	Upper
96	100			
61	157.6	125.0	187.6	
98	64.4	52.2	78.2	





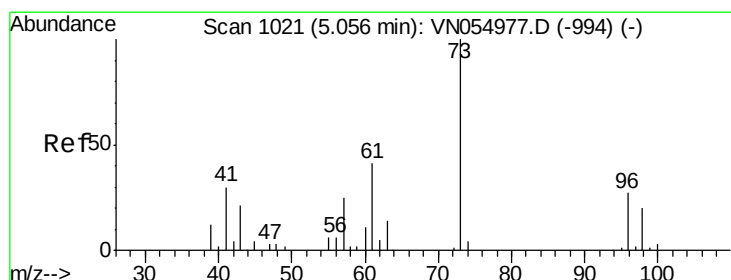
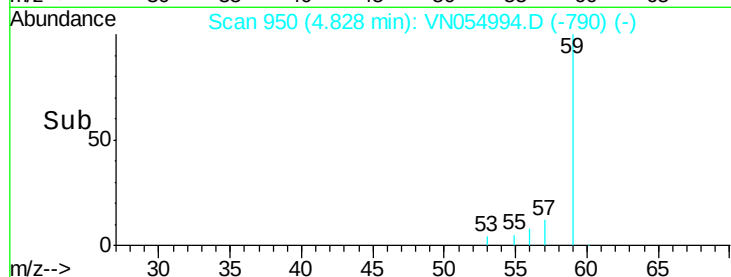
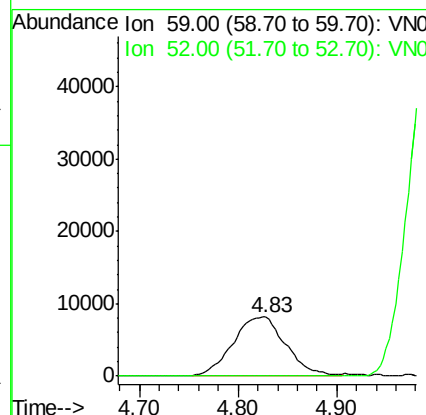
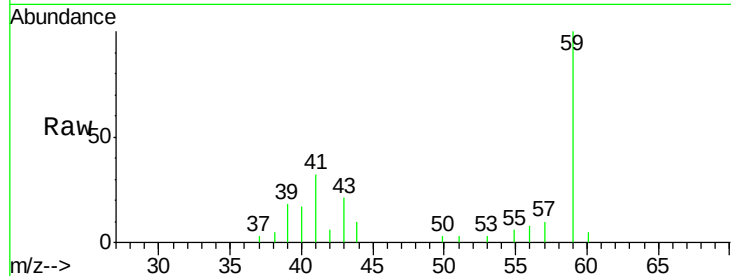
#23
 tert-Butyl Alcohol
 Concen: 116.501 ug/l
 RT: 4.83 min Scan# 950
 Delta R.T. 0.01 min
 Lab File: VN054994.D
 Acq: 12 Apr 2019 12:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0412WBS01

Tot Ion: 59 Resp: 30613
 Ion Ratio Lower Upper
 59 100
 52 0.0 0.0 0.0

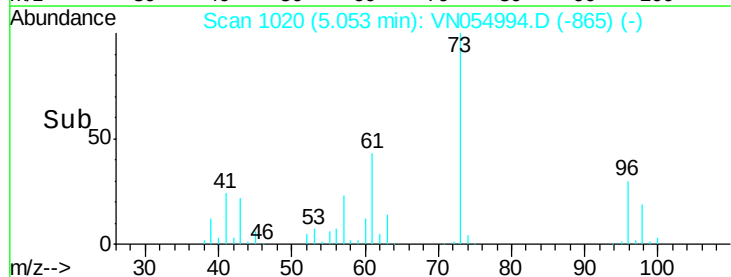
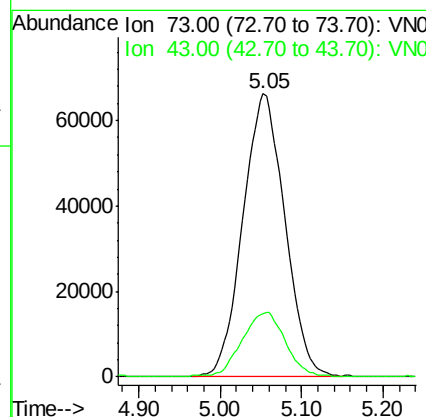
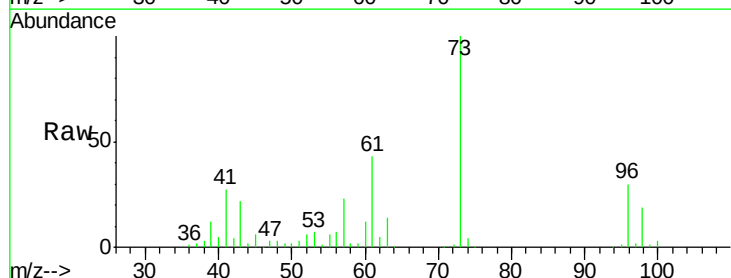
Manual Integrations
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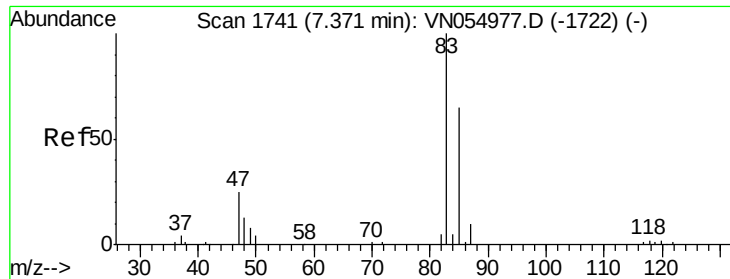
MMDadoda
 4/17/2019 9:36:54 AM



#24
 Methyl tert-Butyl Ether
 Concen: 21.502 ug/l
 RT: 5.05 min Scan# 1020
 Delta R.T. -0.00 min
 Lab File: VN054994.D
 Acq: 12 Apr 2019 12:36

Tgt Ion: 73 Resp: 236107
 Ion Ratio Lower Upper
 73 100
 43 23.6 8.0 12.0#





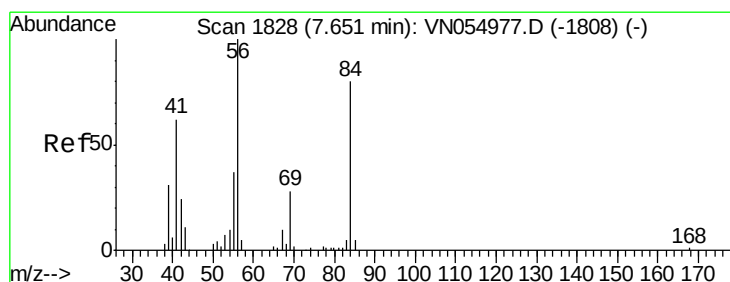
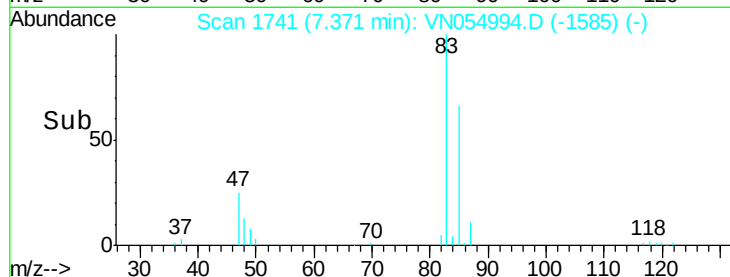
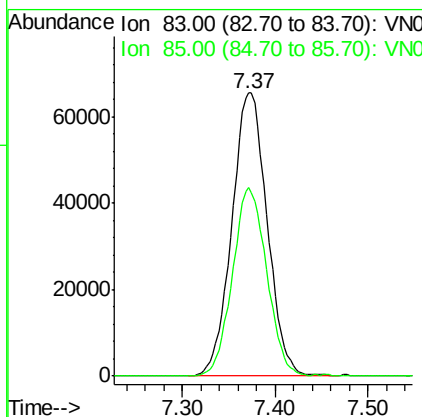
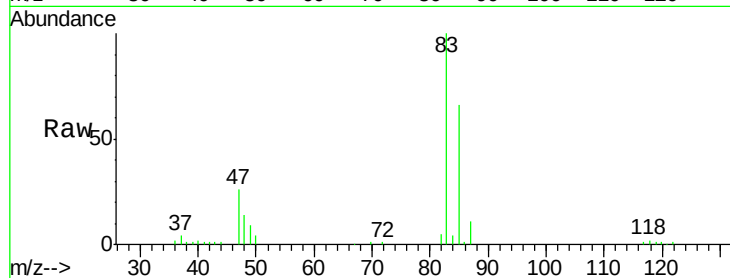
#25
Chloroform
Concen: 20.752 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN054994.D
Acq: 12 Apr 2019 12:36

Instrument :
MSVOA_N
ClientSampleId :
VN0412WBS01

Tot Ion	83	Resp	173221
Ion Ratio	100	Lower	Upper
83	100		
85	66.5	51.8	77.8

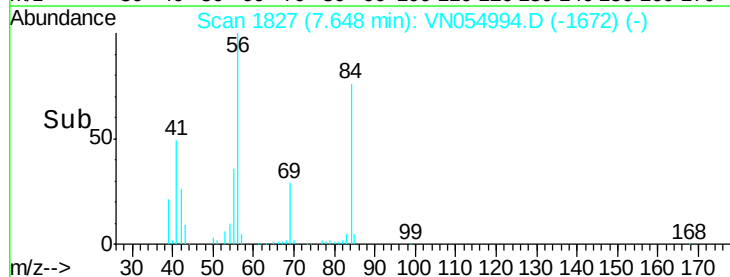
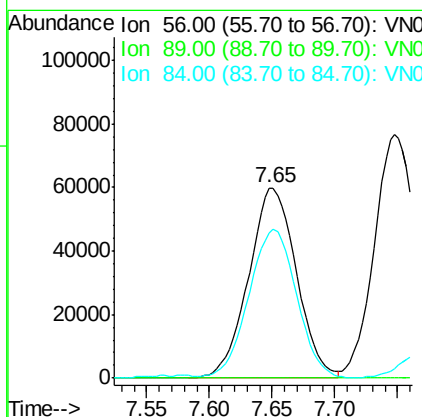
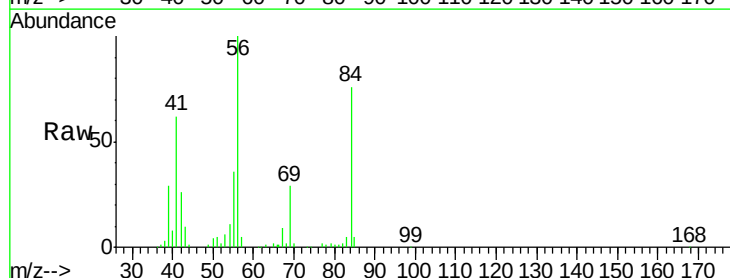
Manual Integrations
APPROVED

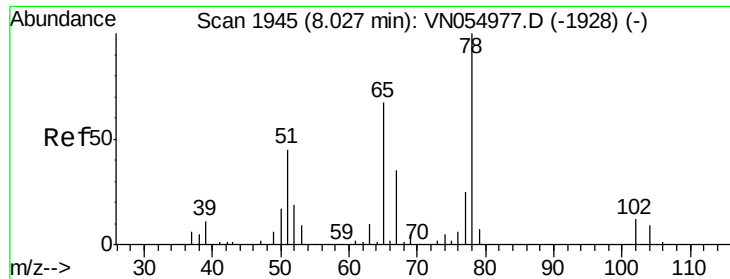
MMDadoda
4/17/2019 9:36:54 AM



#26
Cyclohexane
Concen: 19.631 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. -0.00 min
Lab File: VN054994.D
Acq: 12 Apr 2019 12:36

Tgt Ion	56	Resp	158722
Ion Ratio	100	Lower	Upper
56	100		
89	0.0	0.0	0.0
84	78.5	63.5	95.3





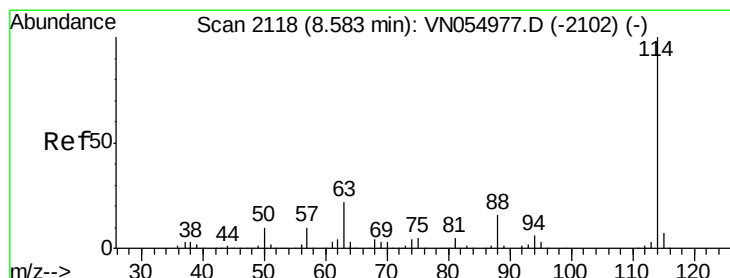
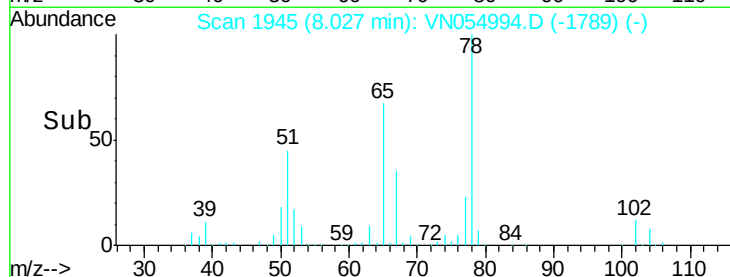
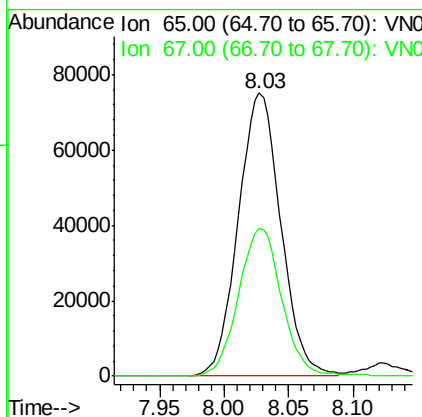
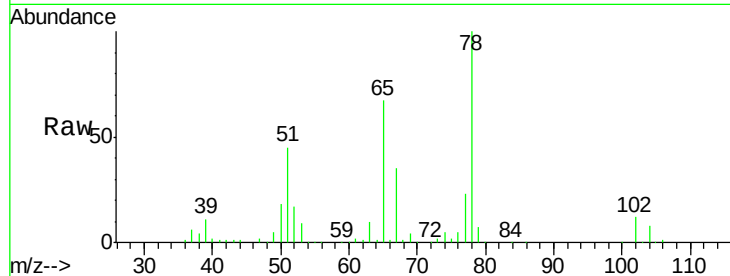
#27
 1,2-Dichloroethane-d4
 Concen: 19.631 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN054994.D
 Acq: 12 Apr 2019 12:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0412WBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	172588		
67	52.8		41.8	62.8

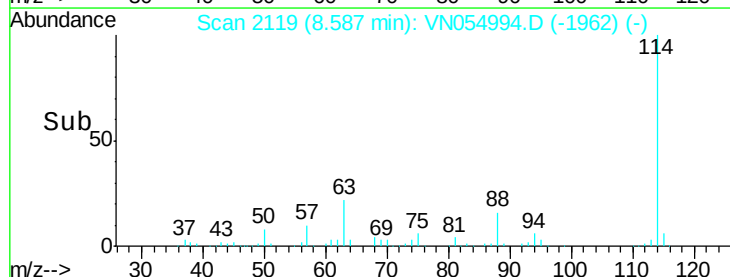
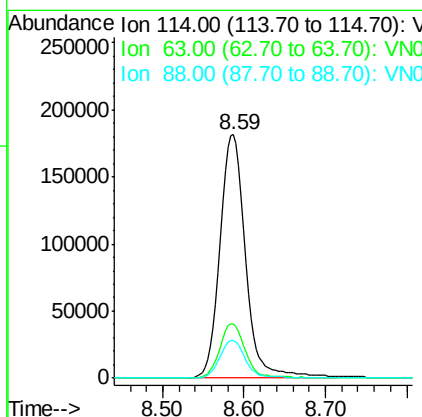
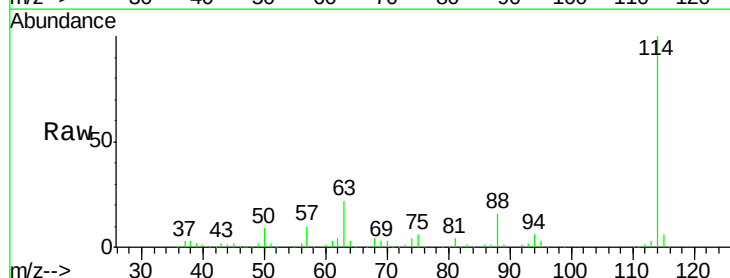
Manual Integrations
 APPROVED

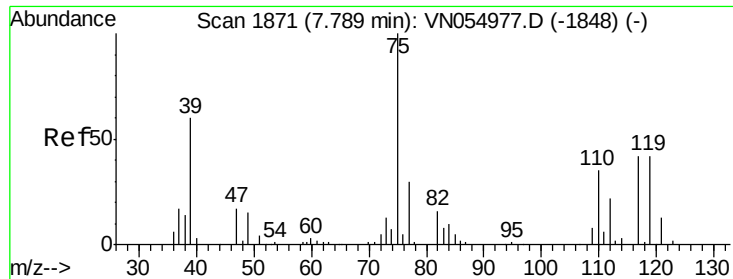
MMDadoda
 4/17/2019 9:36:54 AM



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054994.D
 Acq: 12 Apr 2019 12:36

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	406526		
63	22.1		17.0	25.4
88	15.2		12.3	18.5





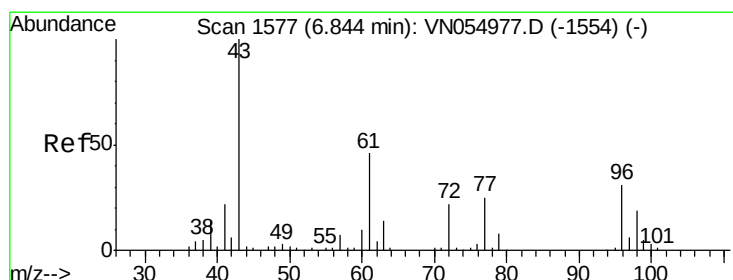
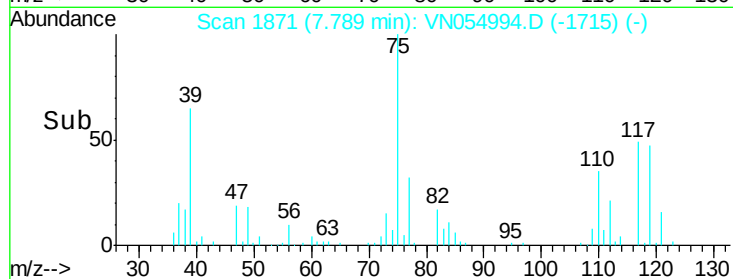
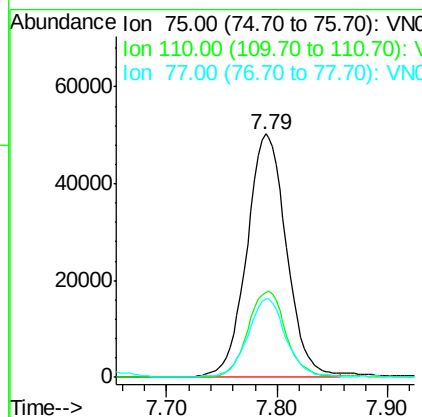
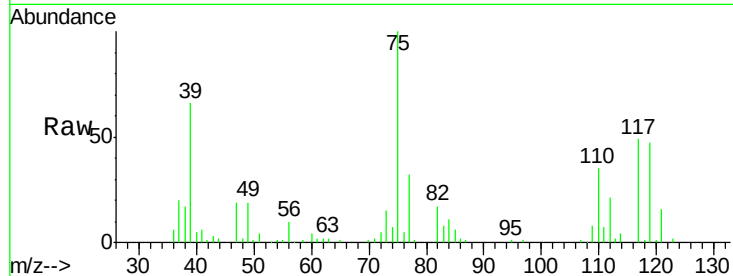
#29
 1,1-Dichloropropene
 Concen: 19.781 ug/l
 RT: 7.79 min Scan# 1871
 Delta R.T. 0.00 min
 Lab File: VN054994.D
 Acq: 12 Apr 2019 12:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0412WBS01

Tot Ion	Ratio	Resp Lower	Upper
75	100		
110	34.0	0.0	68.4
77	31.2	0.0	58.6

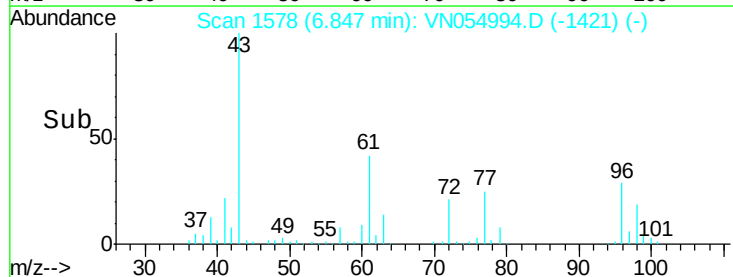
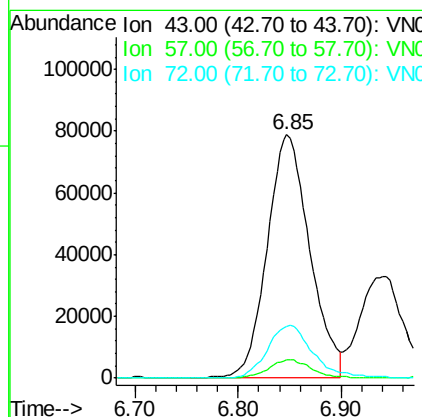
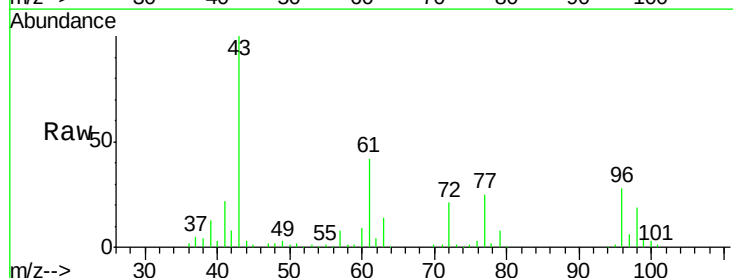
Manual Integrations
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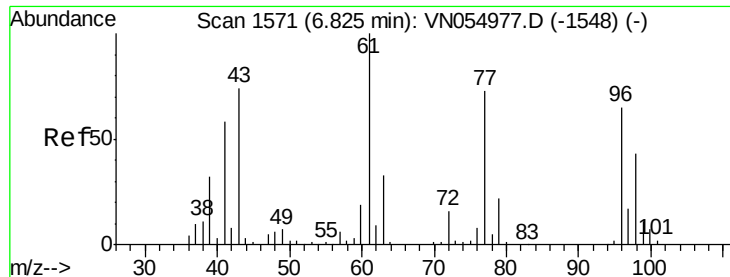
MMDadoda
 4/17/2019 9:36:54 AM



#30
 2-Butanone
 Concen: 106.696 ug/l
 RT: 6.85 min Scan# 1578
 Delta R.T. 0.00 min
 Lab File: VN054994.D
 Acq: 12 Apr 2019 12:36

Tgt Ion	Ratio	Resp Lower	Upper
43	100		
57	7.5	6.0	9.0
72	23.3	18.6	27.8





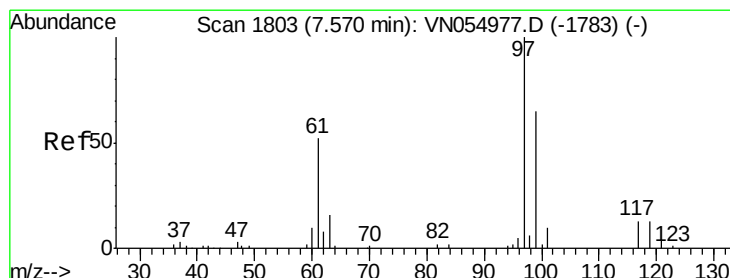
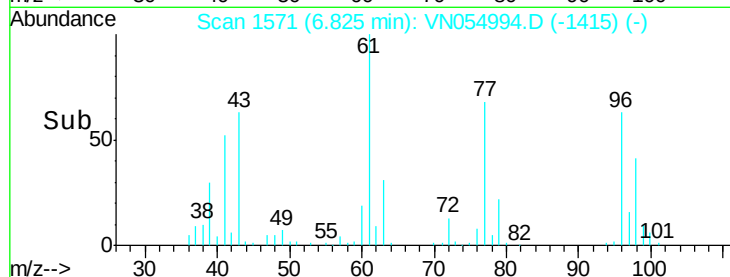
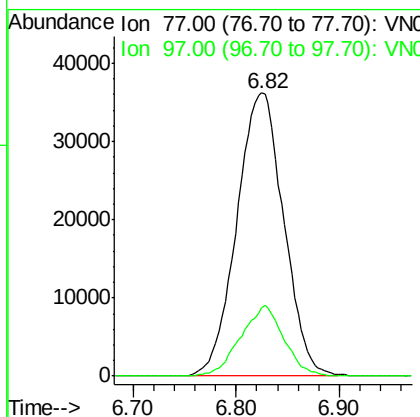
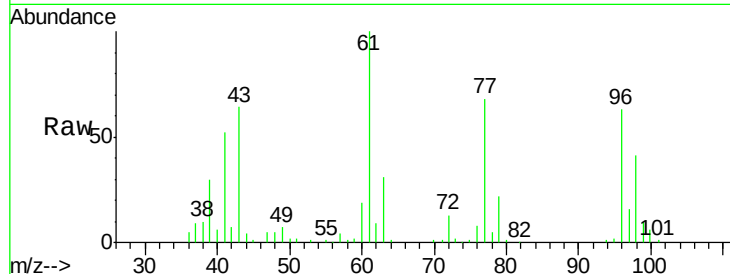
#31
 2,2-Dichloropropane
 Concen: 19.645 ug/l
 RT: 6.82 min Scan# 1571
 Delta R.T. 0.00 min
 Lab File: VN054994.D
 Acq: 12 Apr 2019 12:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0412WBS01

Tot Ion: 77 Resp: 114472
 Ion Ratio Lower Upper
 77 100
 97 23.0 0.0 0.0#

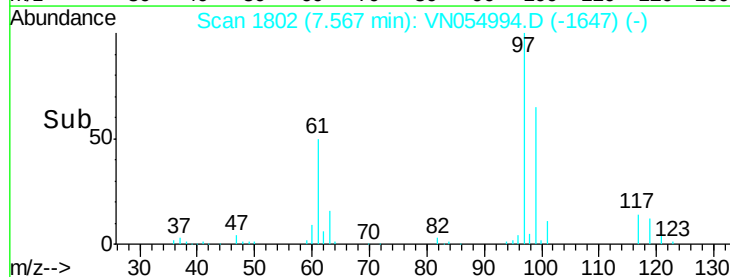
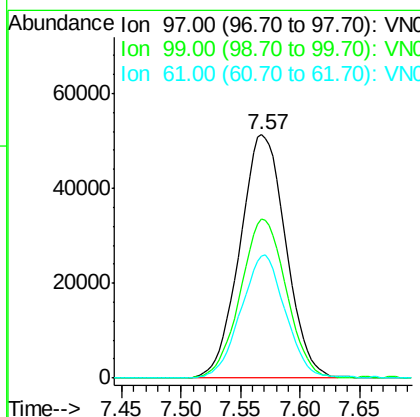
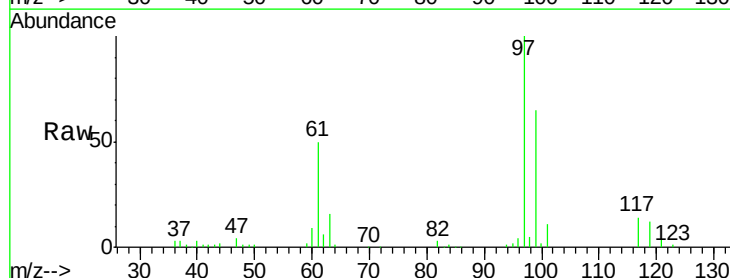
Manual Integrations
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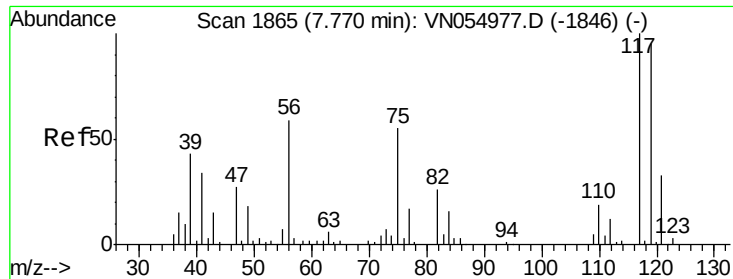
MMDadoda
 4/17/2019 9:36:54 AM



#32
 1,1,1-Trichloroethane
 Concen: 20.535 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. -0.00 min
 Lab File: VN054994.D
 Acq: 12 Apr 2019 12:36

Tgt Ion: 97 Resp: 137416
 Ion Ratio Lower Upper
 97 100
 99 65.0 51.2 76.8
 61 48.9 40.6 60.8





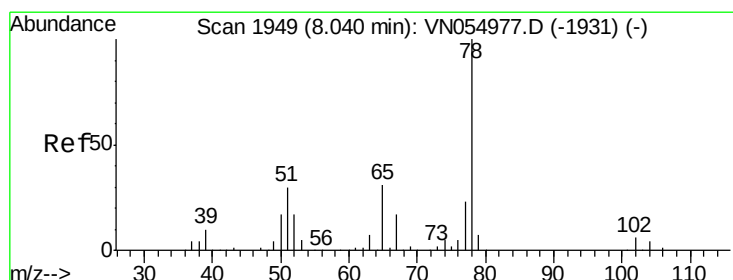
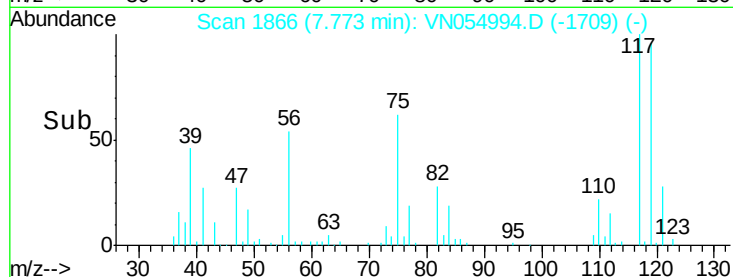
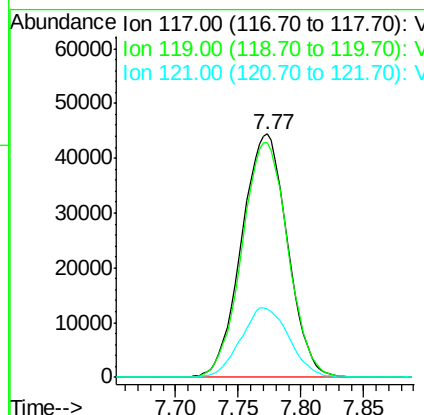
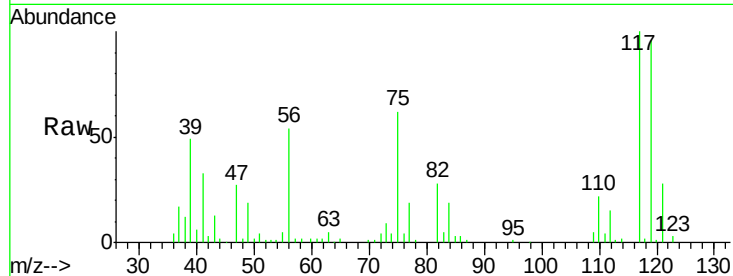
#33
Carbon Tetrachloride
Concen: 19.516 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN054994.D
Acq: 12 Apr 2019 12:36

Instrument :
MSVOA_N
ClientSampleId :
VN0412WBS01

Tot Ion	Ratio	Lower	Upper
117	100		
119	96.4	76.1	114.1
121	27.9	26.2	39.4

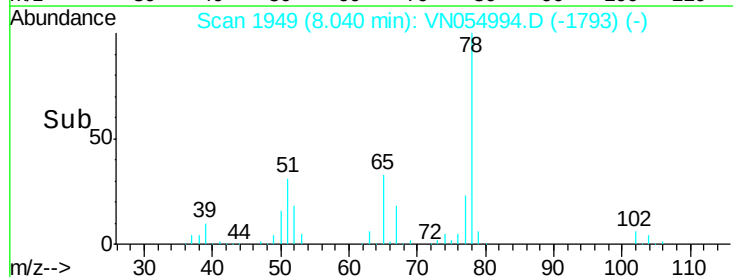
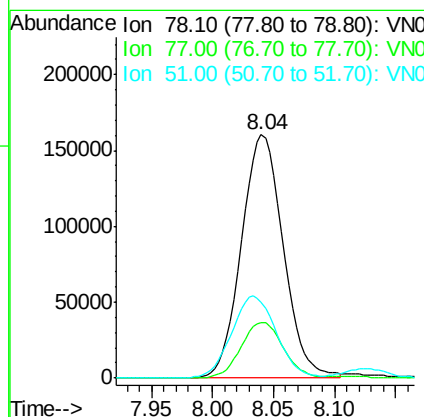
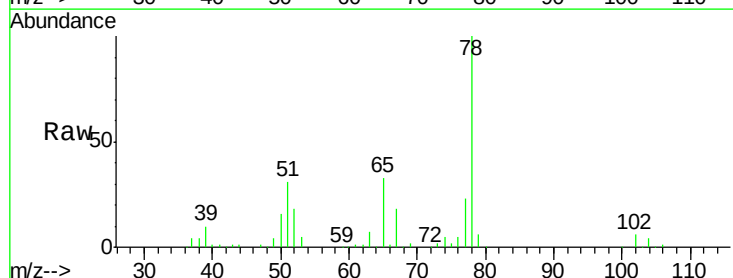
Manual Integrations
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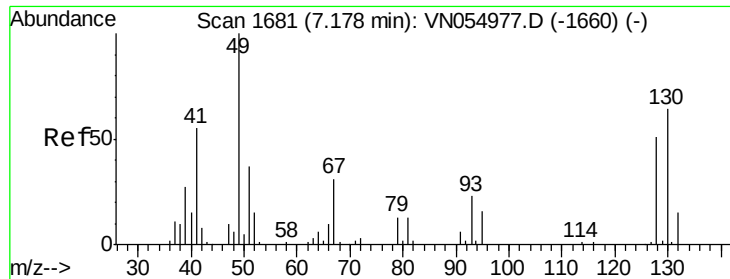
MMDadoda
4/17/2019 9:36:54 AM



#34
Benzene
Concen: 20.320 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. 0.00 min
Lab File: VN054994.D
Acq: 12 Apr 2019 12:36

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.8	18.2	27.4
51	30.7	23.7	35.5





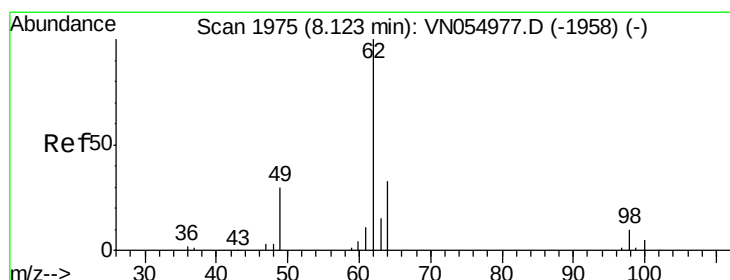
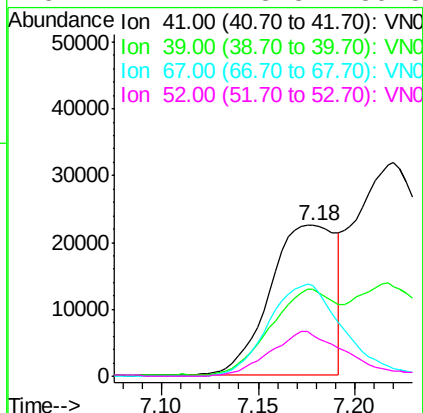
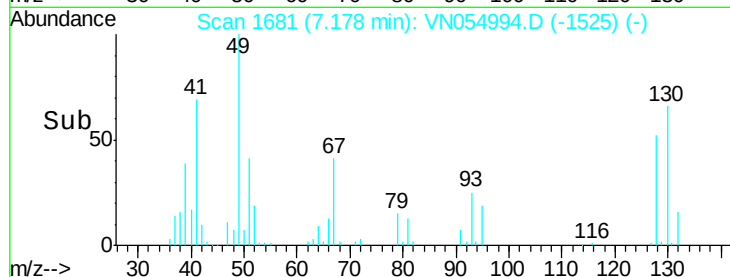
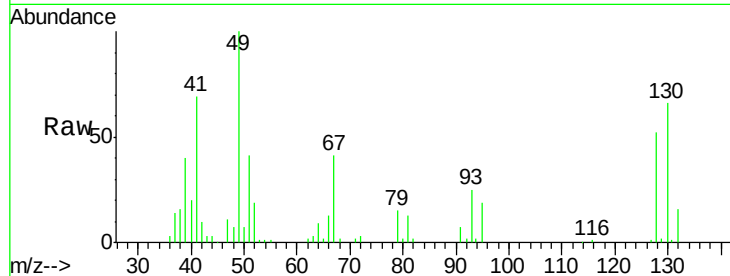
#35
Methacrylonitrile
Concen: 21.390 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VN054994.D
Acq: 12 Apr 2019 12:36

Instrument :
MSVOA_N
ClientSampleId :
VN0412WBS01

Tot Ion	Ratio	Lower	Upper
41	100		
39	57.0	24.2	72.6
67	60.7	28.1	84.2
52	27.4	13.3	39.8

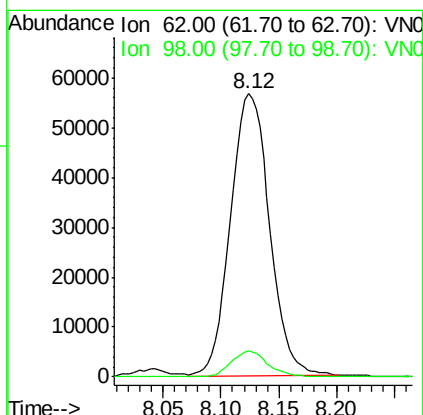
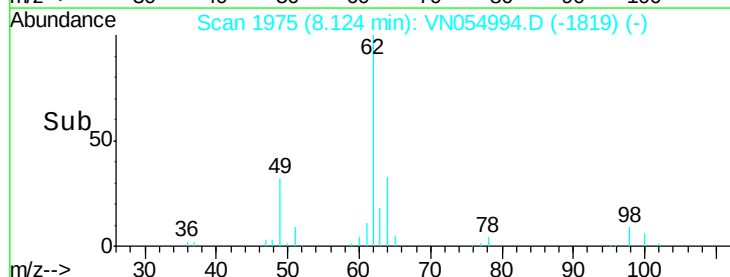
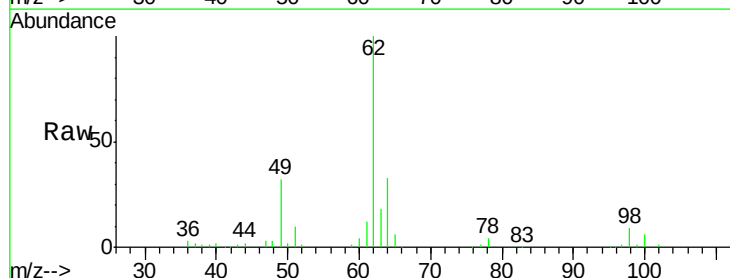
Manual Integrations
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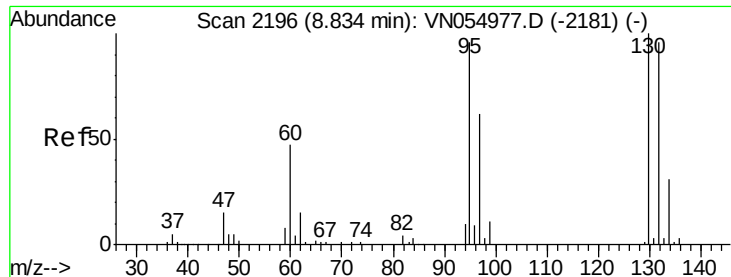
MMDadoda
4/17/2019 9:36:54 AM



#36
1,2-Dichloroethane
Concen: 20.566 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VN054994.D
Acq: 12 Apr 2019 12:36

Tgt Ion	Ratio	Lower	Upper
62	100		
98	8.5	6.9	10.3





#37

Trichloroethene

Concen: 19.879 ug/l

RT: 8.84 min Scan# 2197

Delta R.T. 0.00 min

Lab File: VN054994.D

Acq: 12 Apr 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

VN0412WBS01

Tot Ion:130 Resp: 95082

Ion Ratio Lower Upper

130 100

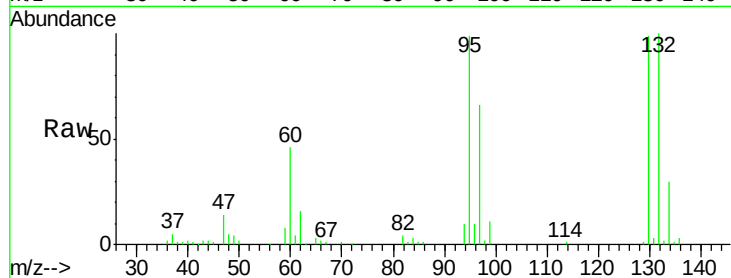
95 100.0 76.6 115.0

Manual Integrations

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4/17/2019 9:36:54 AM



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VN

8.84

50000

40000

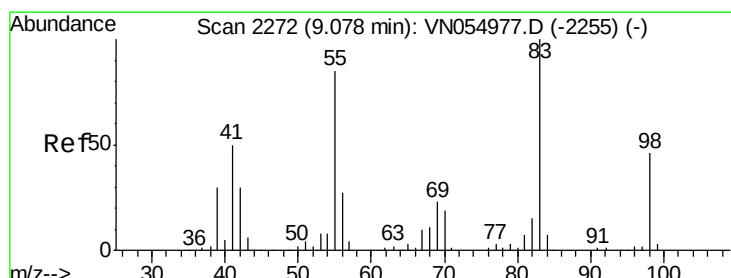
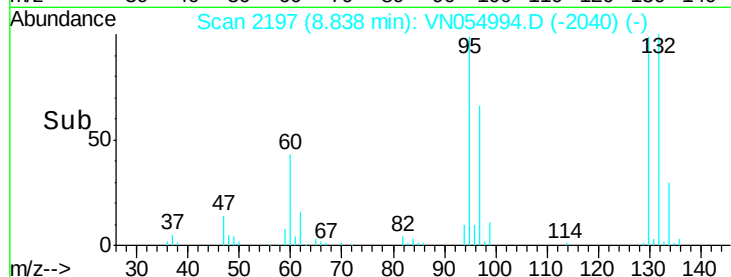
30000

20000

10000

0

Time-->



#38

Methylcyclohexane

Concen: 19.191 ug/l

RT: 9.08 min Scan# 2272

Delta R.T. 0.00 min

Lab File: VN054994.D

Acq: 12 Apr 2019 12:36

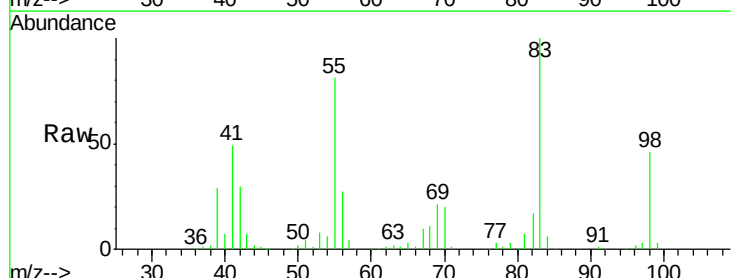
Tgt Ion: 83 Resp: 140899

Ion Ratio Lower Upper

83 100

55 84.0 41.9 125.6

98 44.7 22.4 67.0



Abundance Ion 83.00 (82.70 to 83.70): VN

Ion 55.00 (54.70 to 55.70): VN

Ion 98.00 (97.70 to 98.70): VN

9.08

80000

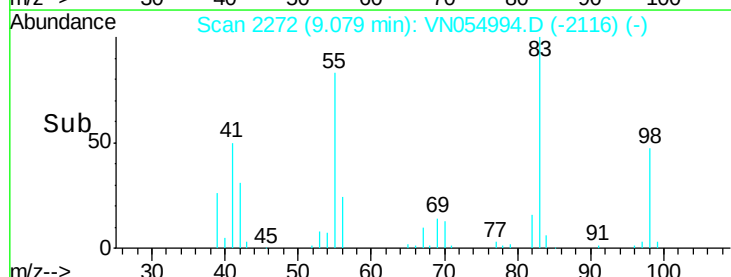
60000

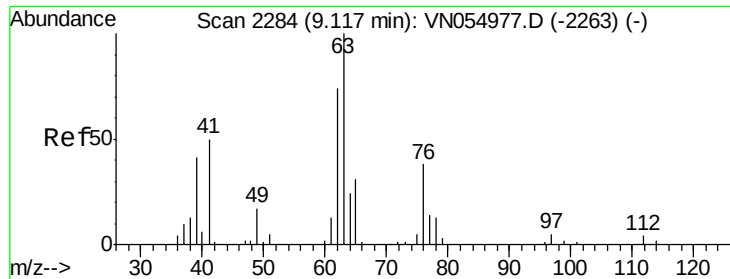
40000

20000

0

Time-->





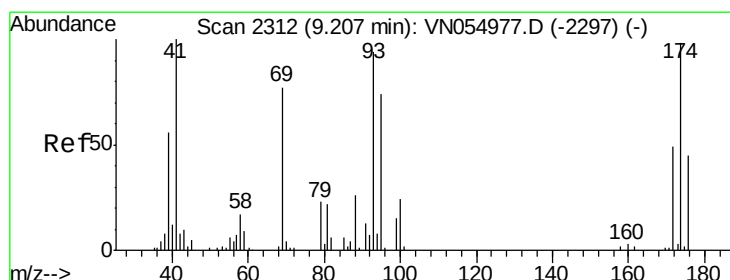
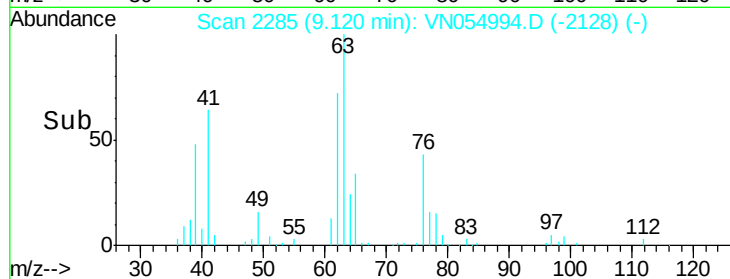
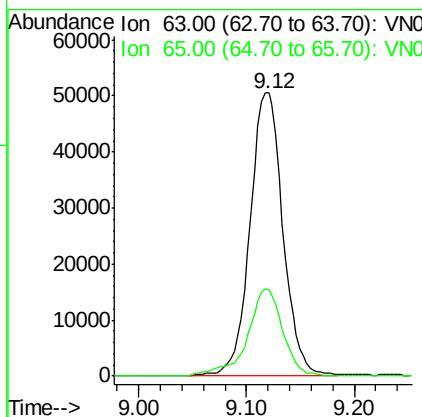
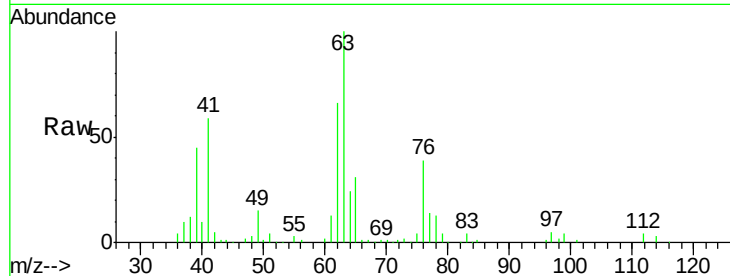
#39
 1,2-Dichloropropane
 Concen: 20.715 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN054994.D
 Acq: 12 Apr 2019 12:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0412WBS01

Tot Ion	Ratio	Resp	Lower	Upper
63	100	107318		
65	30.5	24.8	37.2	

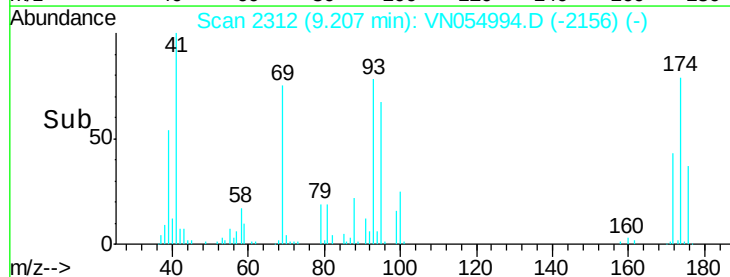
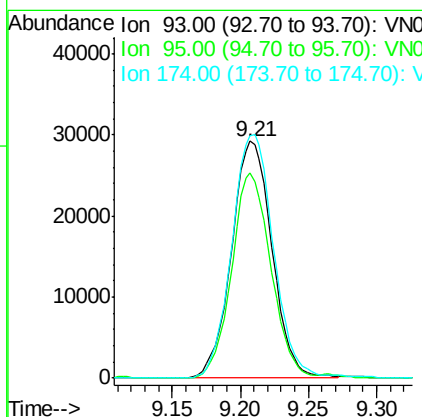
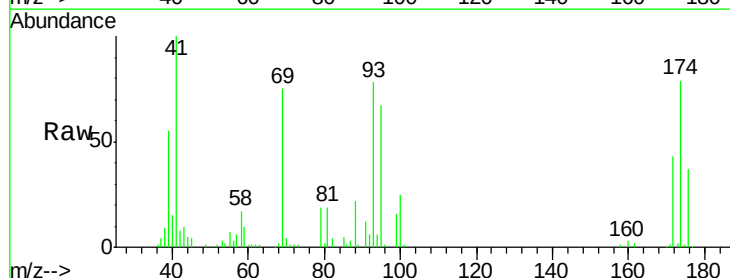
Manual Integrations
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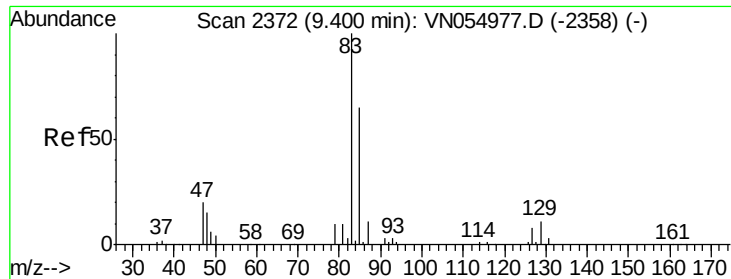
MMDadoda
 4/17/2019 9:36:54 AM



#40
 Dibromomethane
 Concen: 20.631 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. 0.00 min
 Lab File: VN054994.D
 Acq: 12 Apr 2019 12:36

Tgt Ion	Ratio	Resp	Lower	Upper
93	100	60413		
95	83.5	0.0	160.8	
174	105.8	0.0	206.4	





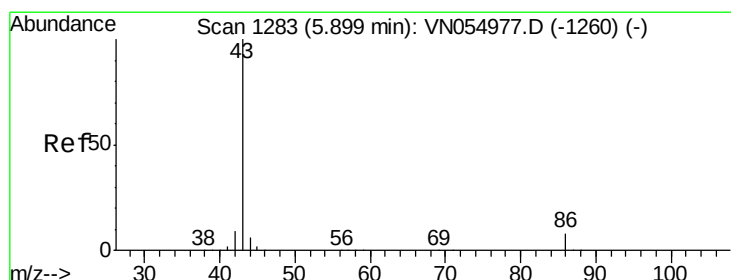
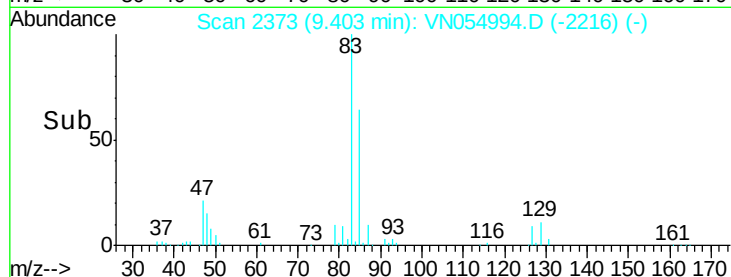
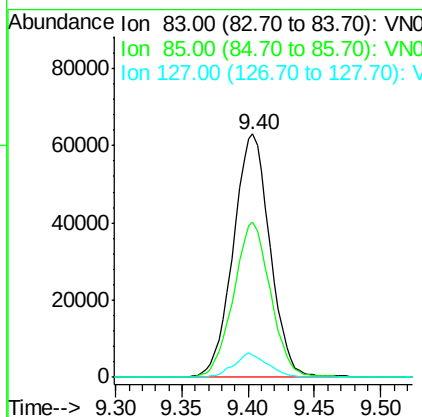
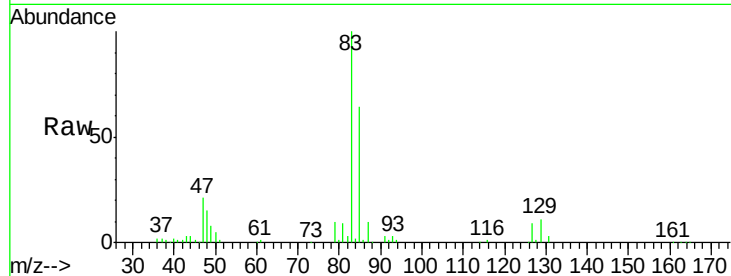
#41
 Bromodichloromethane
 Concen: 20.062 ug/l
 RT: 9.40 min Scan# 2373
 Delta R.T. 0.00 min
 Lab File: VN054994.D
 Acq: 12 Apr 2019 12:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0412WBS01

Tot Ion	83	Resp	121245
Ion Ratio	100	Lower	Upper
83	100		
85	63.6	52.0	78.0
127	9.8	7.2	10.8

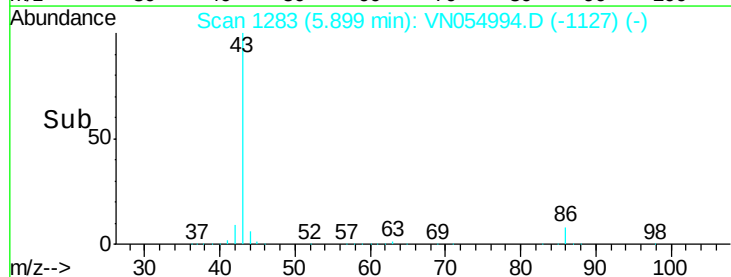
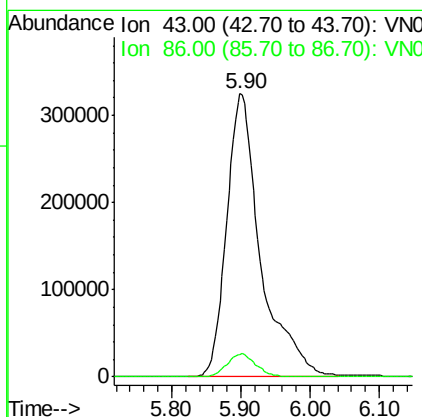
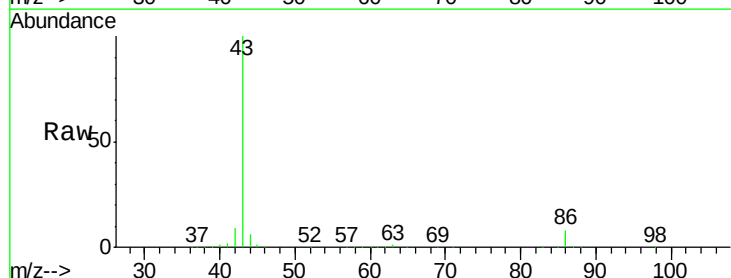
Manual Integrations
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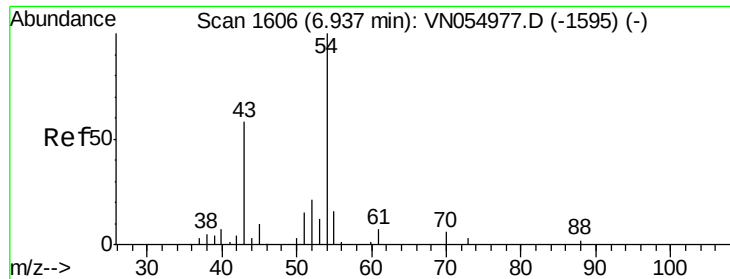
MMDadoda
 4/17/2019 9:36:54 AM



#42
 Vinyl Acetate
 Concen: 104.786 ug/l
 RT: 5.90 min Scan# 1283
 Delta R.T. 0.00 min
 Lab File: VN054994.D
 Acq: 12 Apr 2019 12:36

Tgt Ion	43	Resp	1113313
Ion Ratio	100	Lower	Upper
43	100		
86	6.9	5.7	8.5





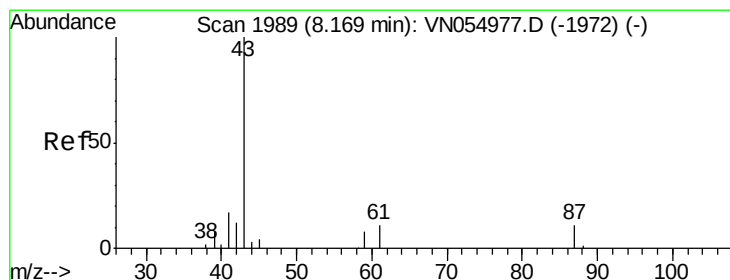
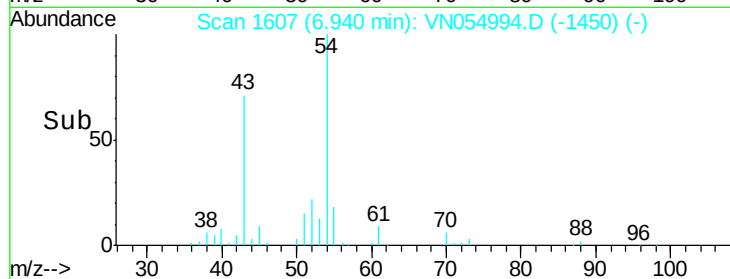
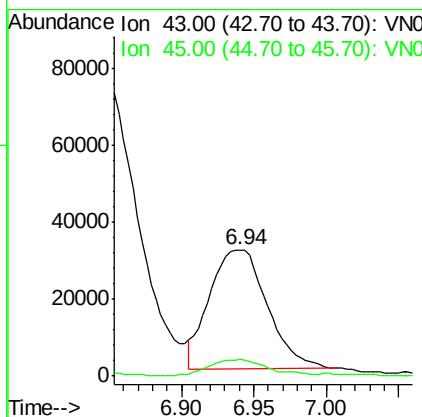
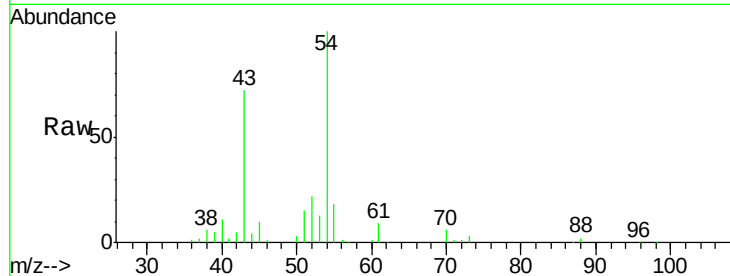
#43
Ethyl Acetate
Concen: 20.213 ug/l
RT: 6.94 min Scan# 1607
Delta R.T. 0.00 min
Lab File: VN054994.D
Acq: 12 Apr 2019 12:36

Instrument :
MSVOA_N
ClientSampleId :
VN0412WBS01

Tot Ion: 43 Resp: 86542
Ion Ratio Lower Upper
43 100
45 13.2 10.6 15.8

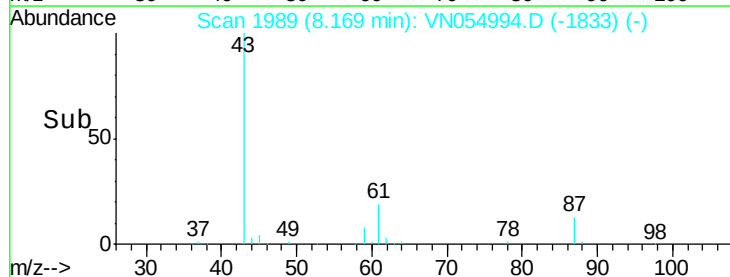
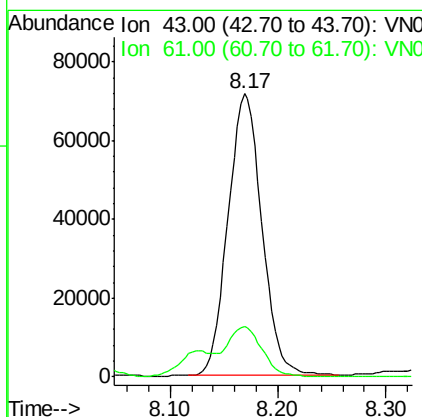
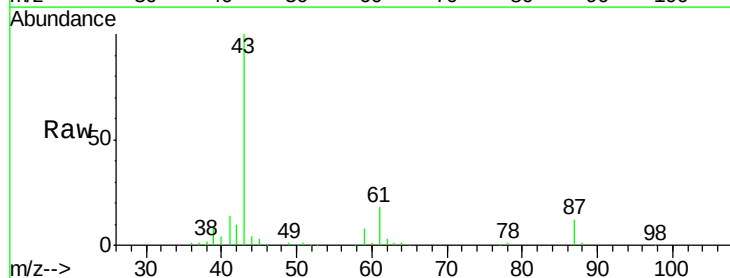
Manual Integrations
APPROVED

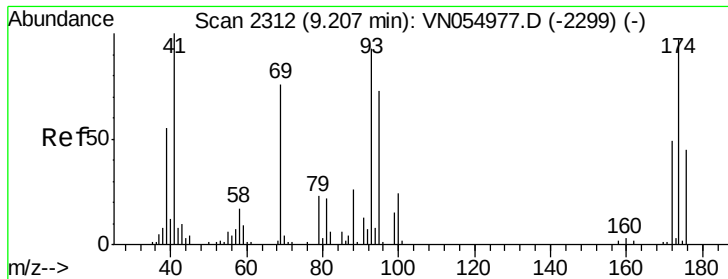
MMDadoda
4/17/2019 9:36:54 AM



#44
Isopropyl Acetate
Concen: 21.657 ug/l
RT: 8.17 min Scan# 1989
Delta R.T. 0.00 min
Lab File: VN054994.D
Acq: 12 Apr 2019 12:36

Tgt Ion: 43 Resp: 157136
Ion Ratio Lower Upper
43 100
61 17.7 14.8 22.2





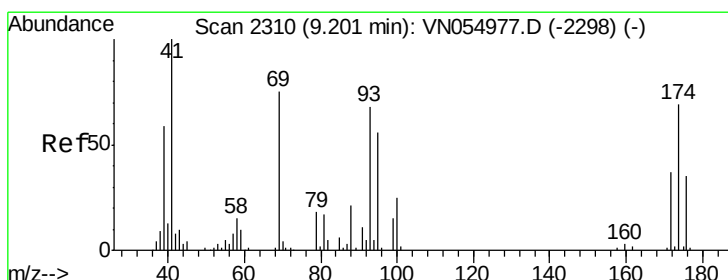
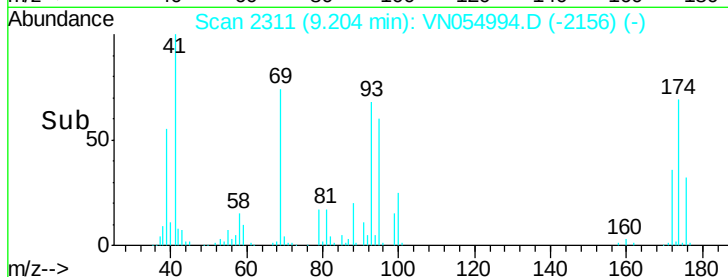
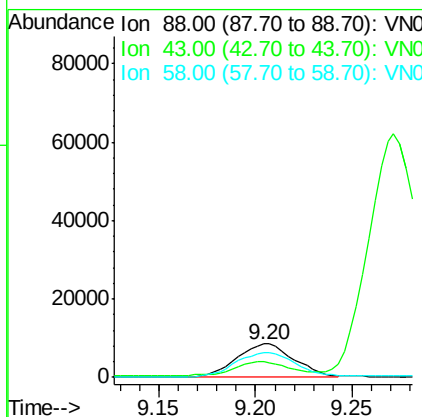
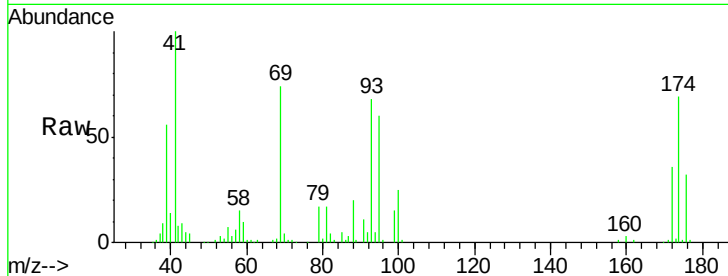
#45
 1,4-Dioxane
 Concen: 440.682 ug/l
 RT: 9.20 min Scan# 2311
 Delta R.T. -0.00 min
 Lab File: VN054994.D
 Acq: 12 Apr 2019 12:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0412WBS01

Tot Ion	88	Resp	17714
Ion Ratio	Lower	Upper	
88	100		
43	40.7	34.5	51.7
58	80.5	60.3	90.5

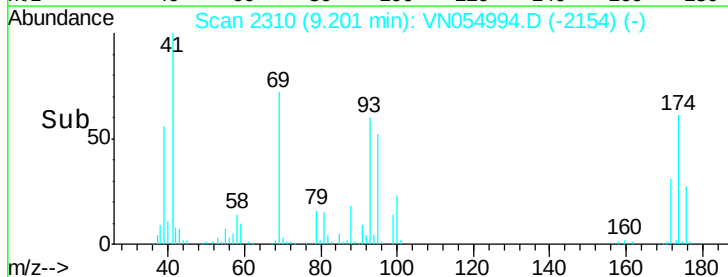
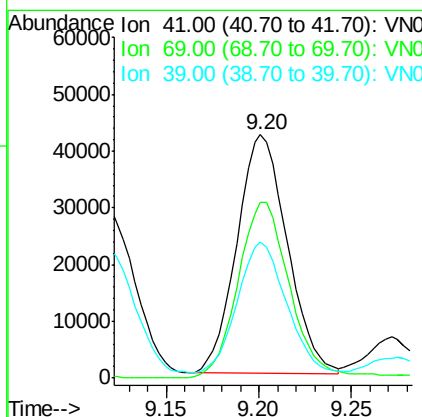
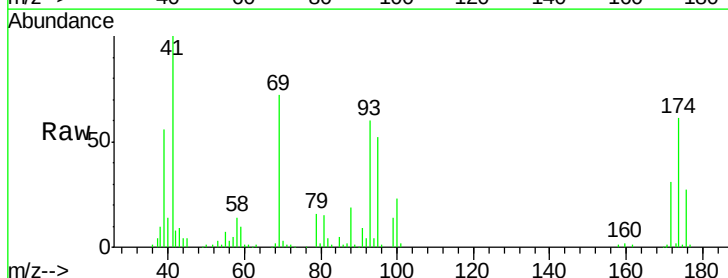
Manual Integrations
 APPROVED

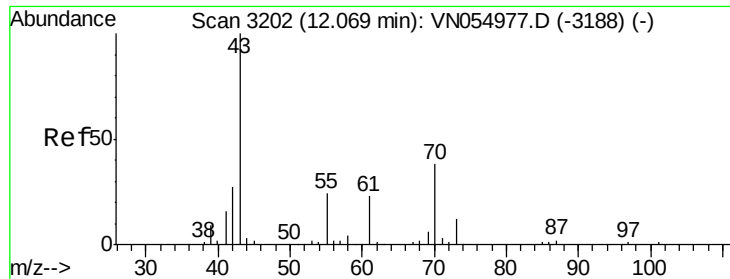
MMDadoda
 4/17/2019 9:36:54 AM



#46
 Methyl methacrylate
 Concen: 21.188 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. 0.00 min
 Lab File: VN054994.D
 Acq: 12 Apr 2019 12:36

Tgt Ion	41	Resp	79527
Ion Ratio	Lower	Upper	
41	100		
69	73.2	37.3	111.9
39	54.8	29.4	88.2





#47

n-amvl Acetate

Concen: 20.811 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN054994.D

Acq: 12 Apr 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

VN0412WBS01

Tot Ion: 43 Resp: 111213

Ion Ratio Lower Upper

43 100

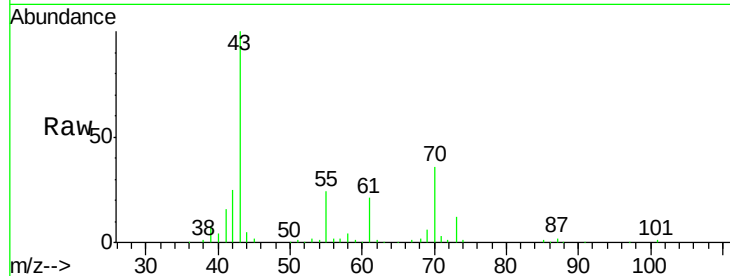
55 24.0 19.8 29.6

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

12.07

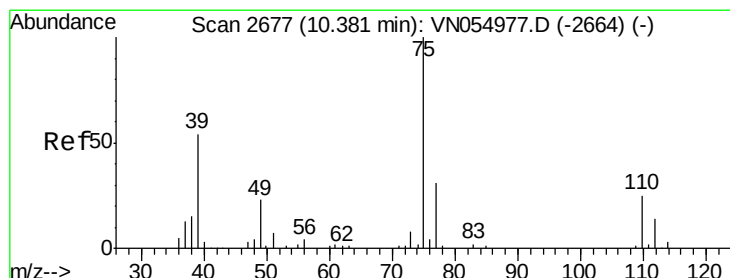
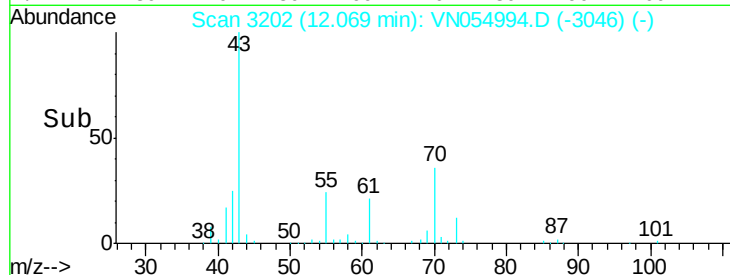
60000

40000

20000

0

Time-->



#48

t-1,3-Dichloropropene

Concen: 19.267 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN054994.D

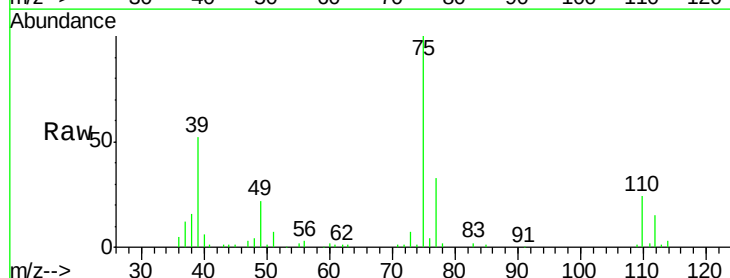
Acq: 12 Apr 2019 12:36

Tgt Ion: 75 Resp: 106928

Ion Ratio Lower Upper

75 100

77 32.1 24.6 37.0



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0

10.38

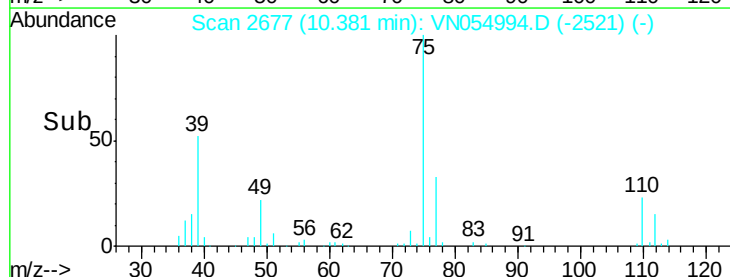
60000

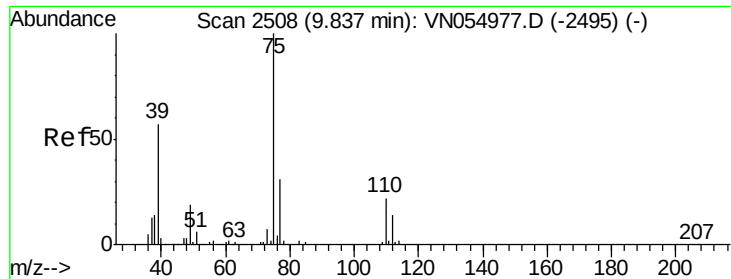
40000

20000

0

Time-->





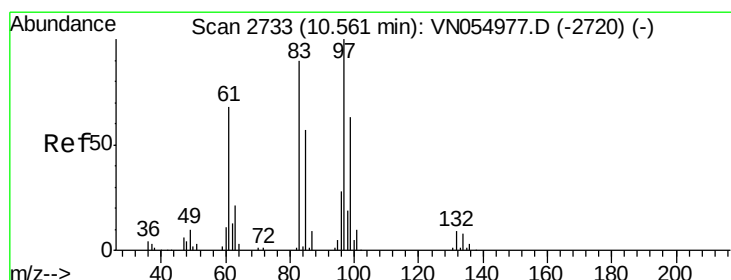
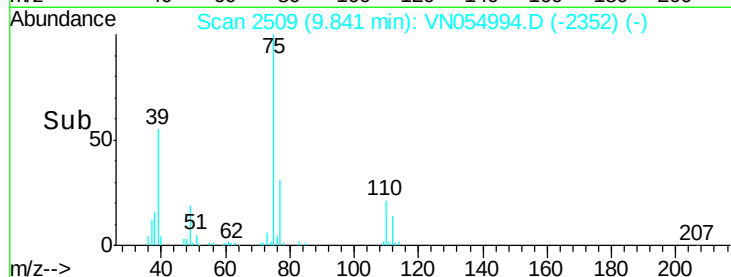
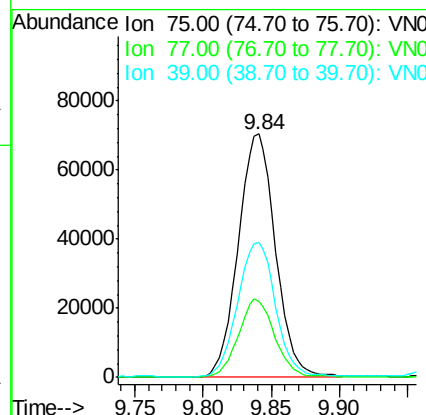
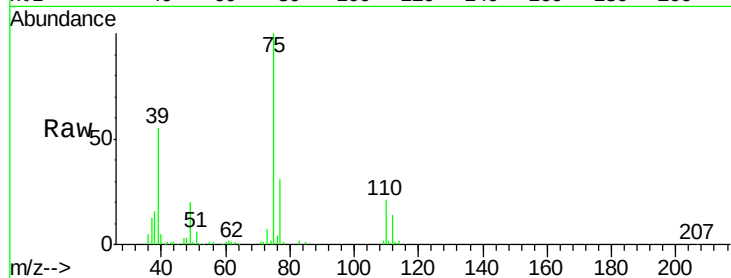
#49
 cis-1,3-Dichloropropene
 Concen: 19.535 ug/l
 RT: 9.84 min Scan# 2509
 Delta R.T. 0.00 min
 Lab File: VN054994.D
 Acq: 12 Apr 2019 12:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0412WBS01

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.2	24.7	37.1
39	55.1	45.3	67.9

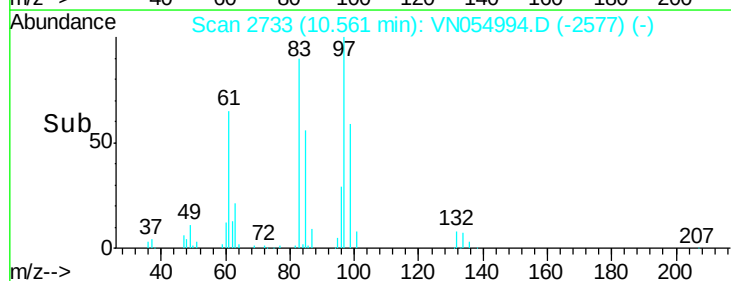
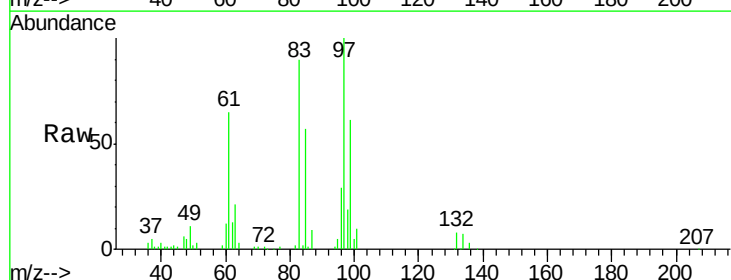
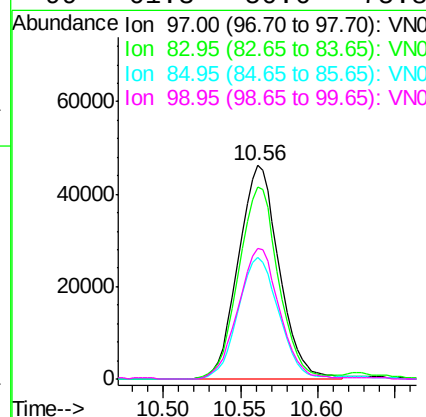
Manual Integrations
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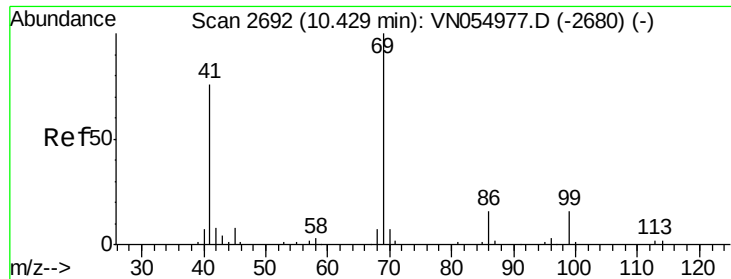
MMDadoda
 4/17/2019 9:36:54 AM



#50
 1,1,2-Trichloroethane
 Concen: 21.258 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN054994.D
 Acq: 12 Apr 2019 12:36

Tgt Ion	Ratio	Lower	Upper
97	100		
83	89.8	72.1	108.1
85	56.8	45.4	68.0
99	61.3	50.6	75.8





#51

Ethyl methacrylate

Concen: 20.239 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. 0.00 min

Lab File: VN054994.D

Acq: 12 Apr 2019 12:36

Instrument :

MSVOA_N

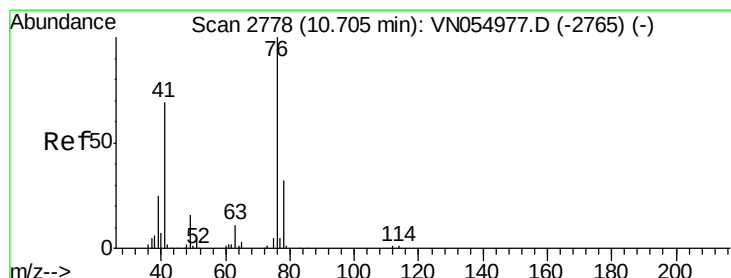
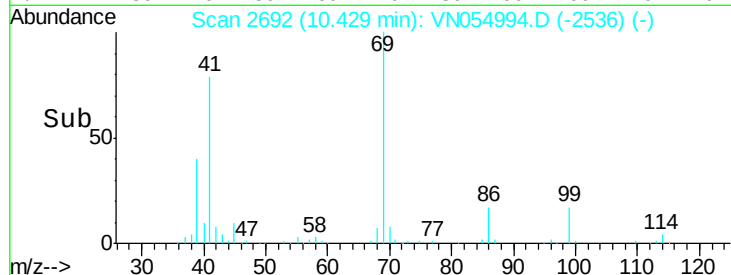
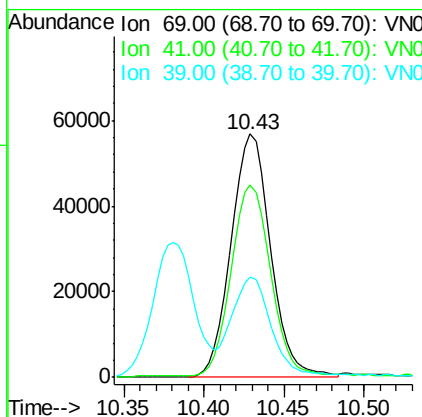
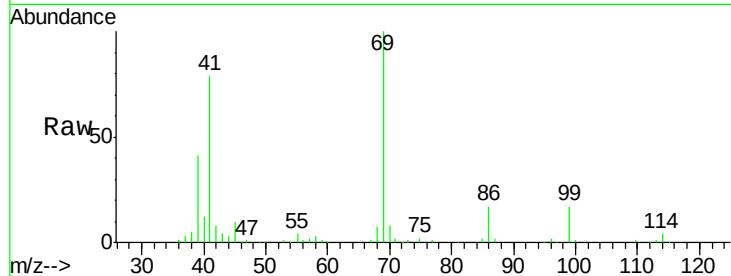
ClientSampleId :

VN0412WBS01

Tot Ion:	69	Resp:	95955
Ion	Ratio	Lower	Upper
69	100		
41	78.4	37.9	113.7
39	39.9	19.8	59.4

Manual Integrations
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MMDadoda
4/17/2019 9:36:54 AM



#52

1,3-Dichloropropane

Concen: 21.036 ug/l

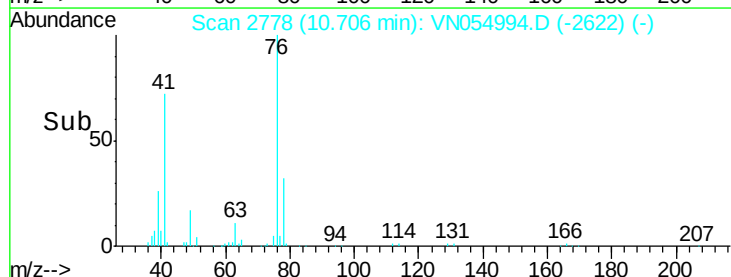
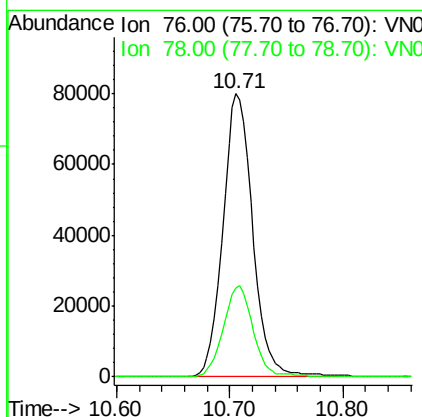
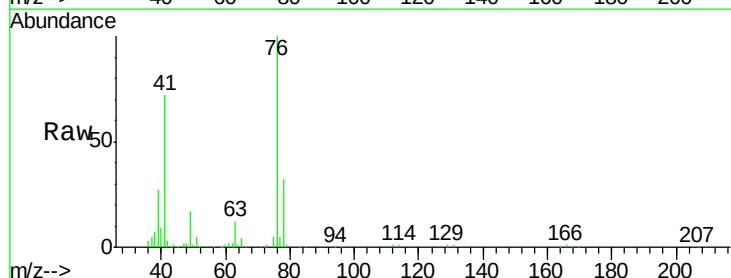
RT: 10.71 min Scan# 2778

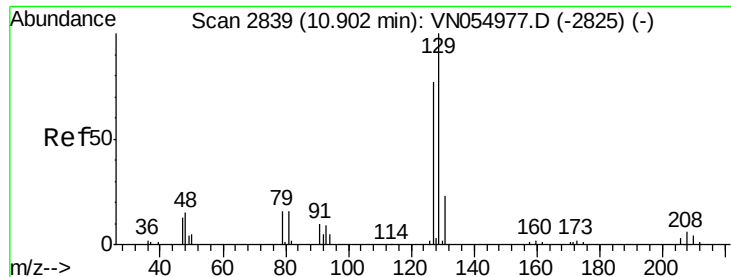
Delta R.T. 0.00 min

Lab File: VN054994.D

Acq: 12 Apr 2019 12:36

Tgt Ion:	76	Resp:	146603
Ion	Ratio	Lower	Upper
76	100		
78	32.0	0.0	64.4





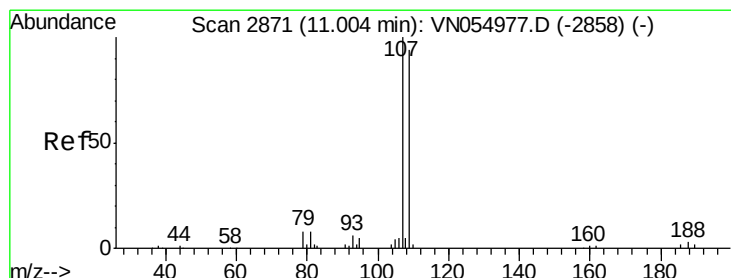
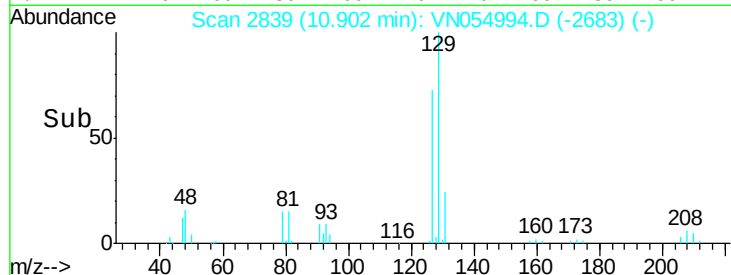
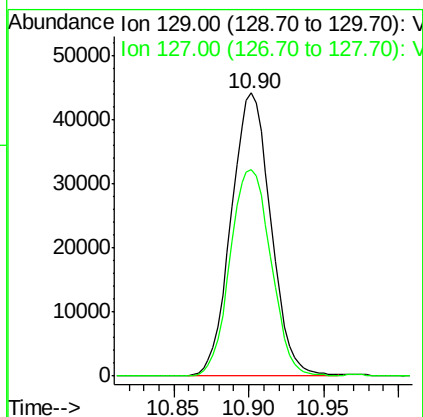
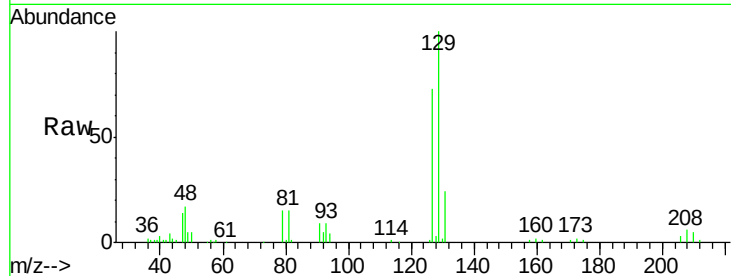
#53
Dibromochloromethane
Concen: 19.882 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN054994.D
Acq: 12 Apr 2019 12:36

Instrument :
MSVOA_N
ClientSampleId :
VN0412WBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
129	100		81454		
127	75.2		37.8	113.3	

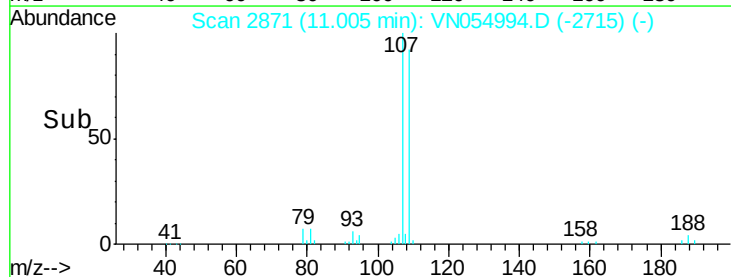
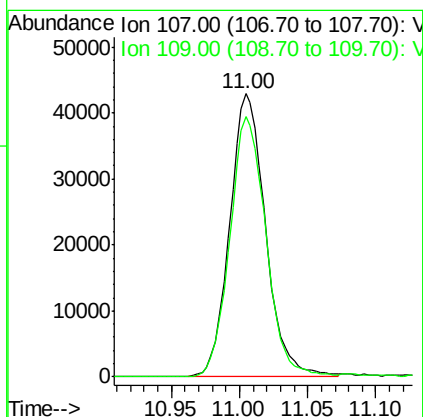
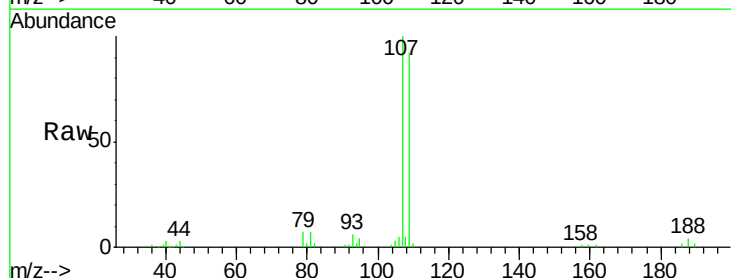
Manual Integrations
APPROVED

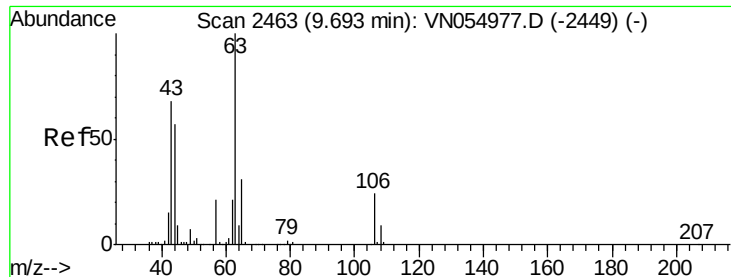
MMDadoda
4/17/2019 9:36:54 AM



#54
1,2-Dibromoethane
Concen: 20.994 ug/l
RT: 11.00 min Scan# 2871
Delta R.T. 0.00 min
Lab File: VN054994.D
Acq: 12 Apr 2019 12:36

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
107	100		78389		
109	92.3		76.2	114.2	





#55

2-Chloroethyl vinyl ether

Concen: 96.478 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN054994.D

Acq: 12 Apr 2019 12:36

Instrument :

MSVOA_N

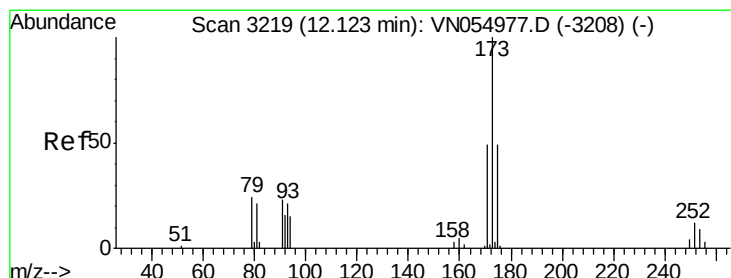
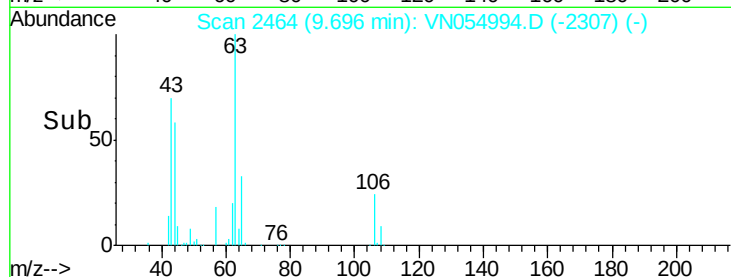
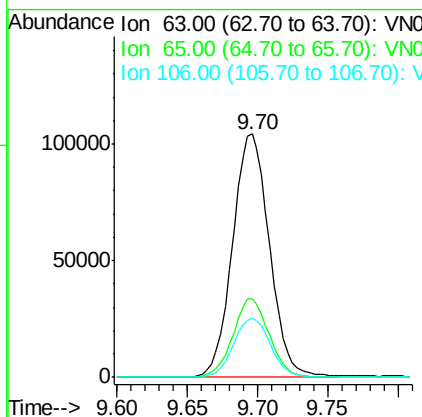
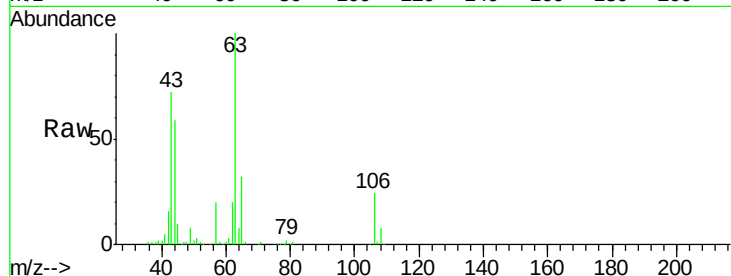
ClientSampleId :

VN0412WBS01

Tot Ion:	63	Resp:	191222
Ion Ratio	Lower	Upper	
63	100		
65	31.8	25.4	38.0
106	24.3	19.8	29.6

Manual Integrations
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4/17/2019 9:36:54 AM



#56

Bromoform

Concen: 19.381 ug/l

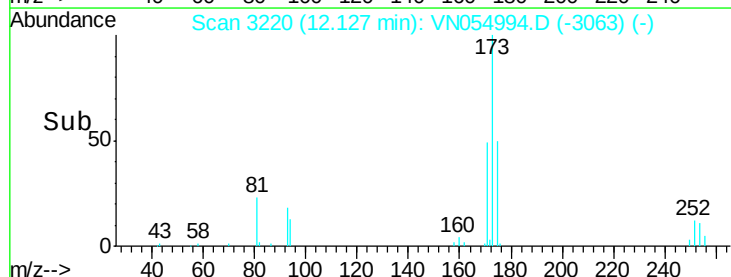
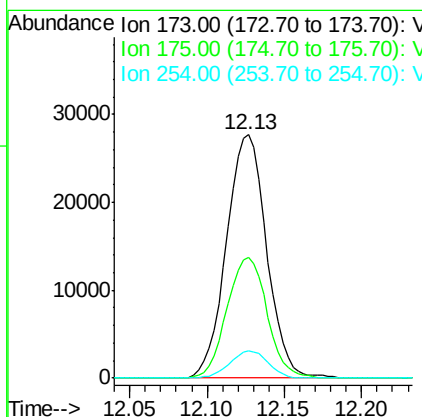
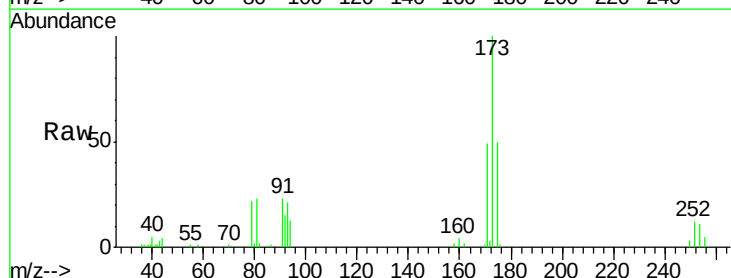
RT: 12.13 min Scan# 3220

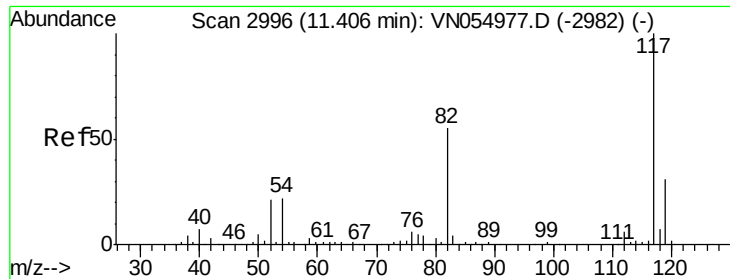
Delta R.T. 0.00 min

Lab File: VN054994.D

Acq: 12 Apr 2019 12:36

Tgt Ion:	173	Resp:	49890
Ion Ratio	Lower	Upper	
173	100		
175	49.6	38.6	57.8
254	10.6	6.8	10.2#





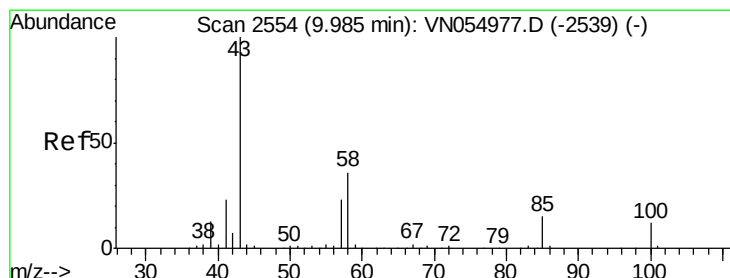
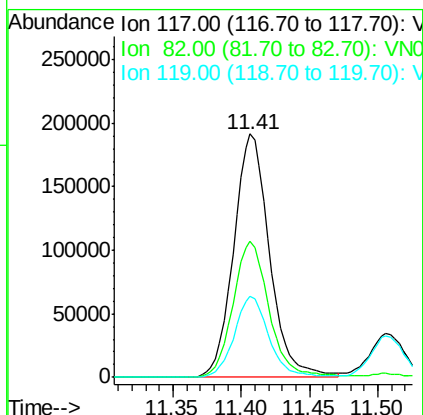
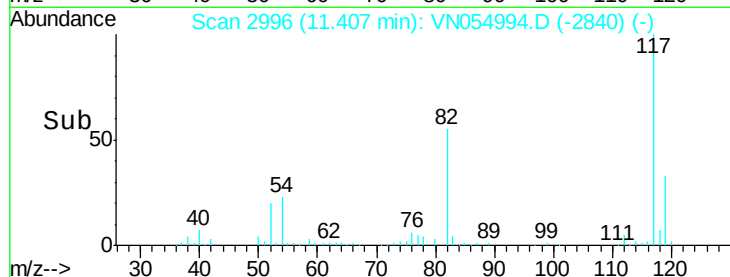
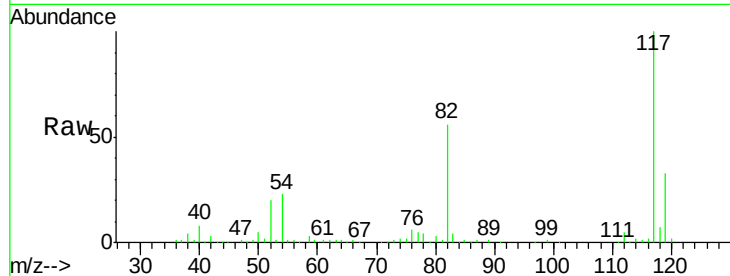
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN054994.D
Acq: 12 Apr 2019 12:36

Instrument :
MSVOA_N
ClientSampled :
VN0412WBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	56.2	45.2	67.8
119	32.3	25.4	38.2

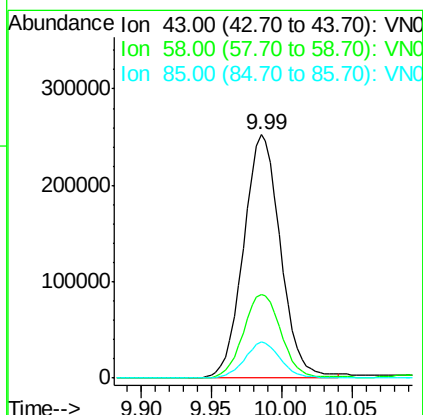
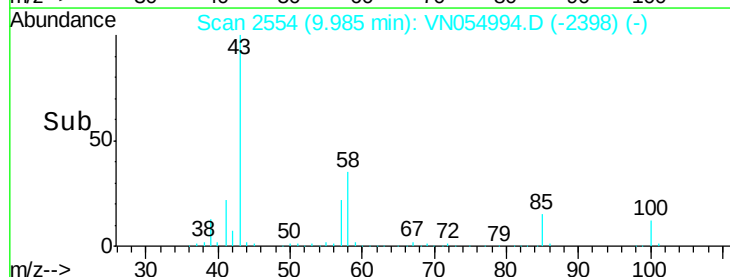
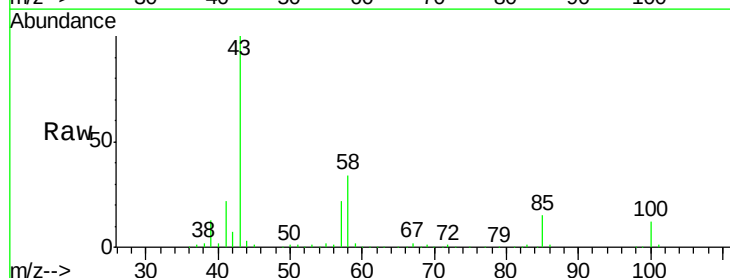
Manual Integrations
APPROVED

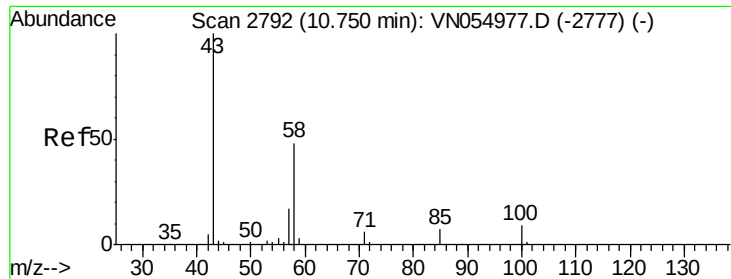
MMDadoda
4/17/2019 9:36:54 AM



#58
4-Methyl-2-Pentanone
Concen: 114.570 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN054994.D
Acq: 12 Apr 2019 12:36

Tgt Ion	Ratio	Lower	Upper
43	100		
58	35.7	28.7	43.1
85	14.5	11.8	17.6





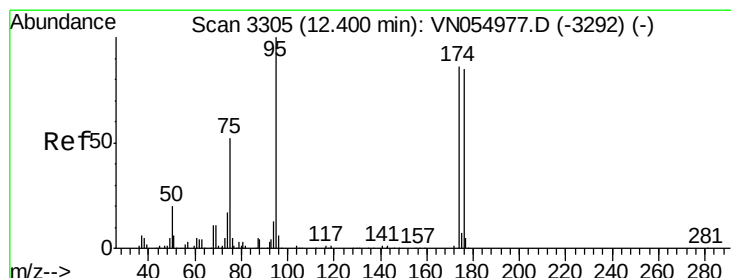
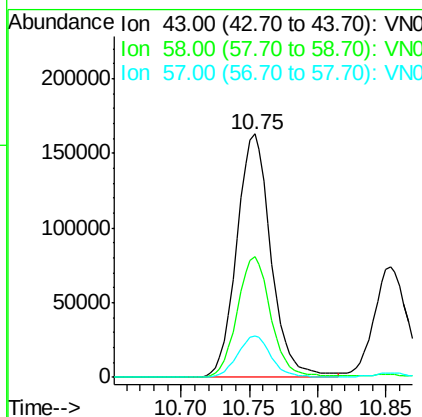
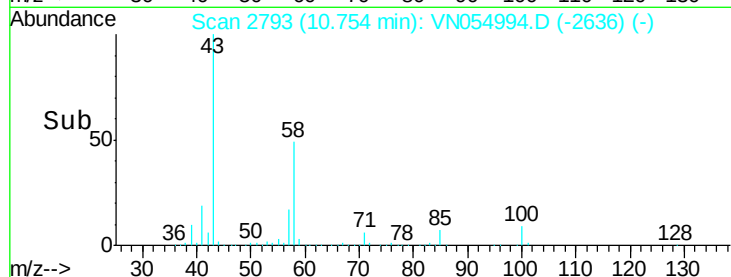
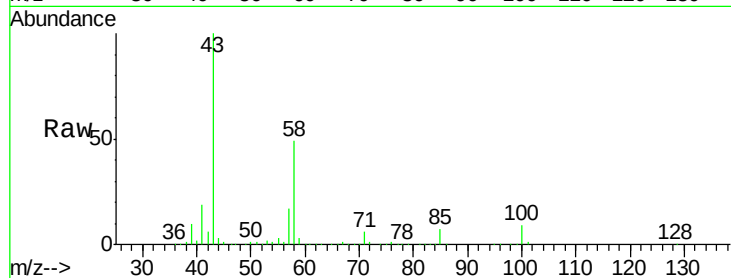
#59
2-Hexanone
Concen: 110.767 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN054994.D
Acq: 12 Apr 2019 12:36

Instrument :
MSVOA_N
ClientSampleId :
VN0412WBS01

Tot Ion	Ratio	Lower	Upper
43	100		
58	48.8	38.8	58.2
57	16.8	13.8	20.6

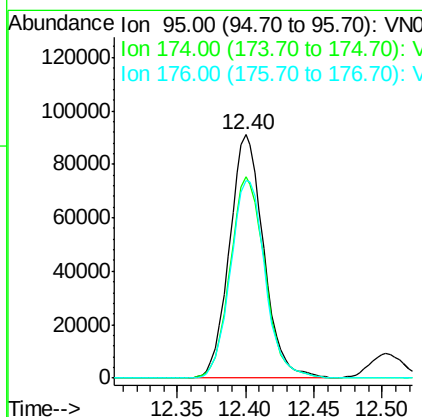
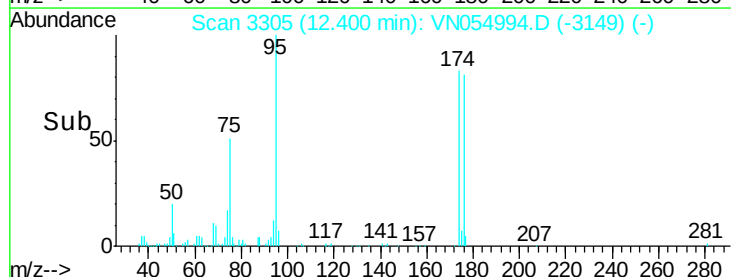
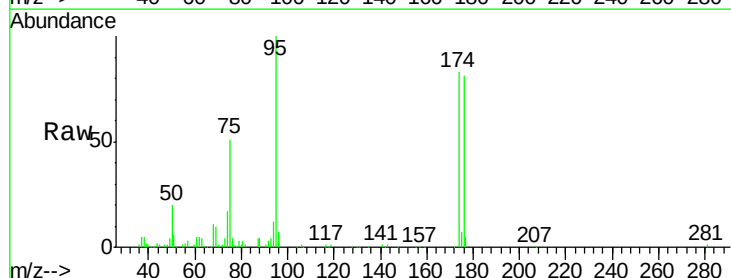
Manual Integrations
APPROVED

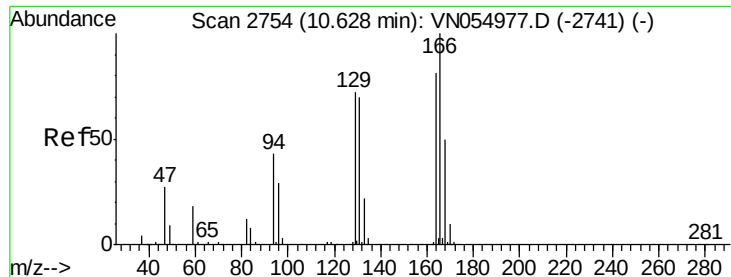
MMDadoda
4/17/2019 9:36:54 AM



#60
4-Bromofluorobenzene
Concen: 110.767 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN054994.D
Acq: 12 Apr 2019 12:36

Tgt Ion	Ratio	Lower	Upper
95	100		
174	83.9	69.4	104.2
176	82.3	67.4	101.2





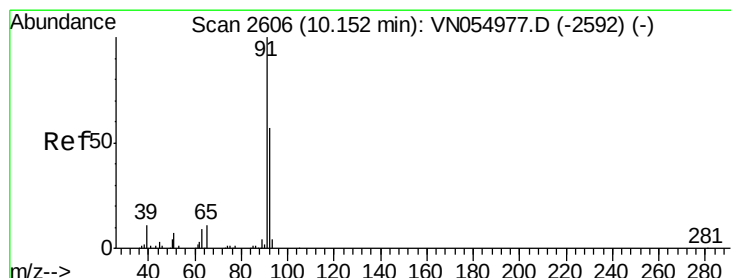
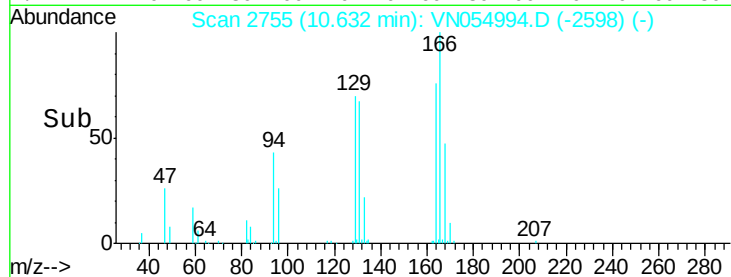
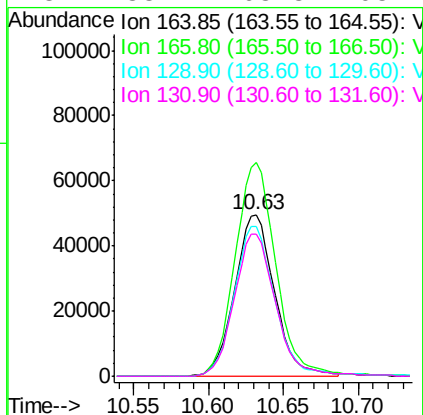
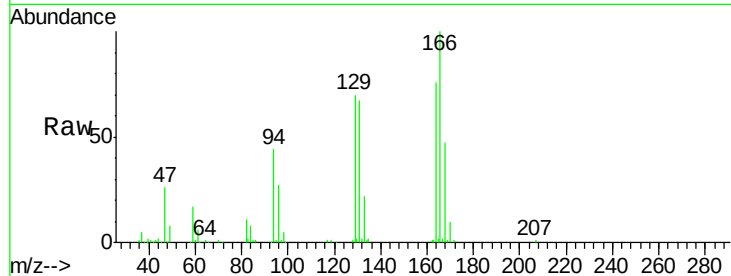
#61
Tetrachloroethene
Concen: 20.238 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN054994.D
Acq: 12 Apr 2019 12:36

Instrument :
MSVOA_N
ClientSampleId :
VN0412WBS01

Tot Ion	Ratio	Lower	Upper
164	100		
166	132.4	99.0	148.4
129	92.5	71.4	107.0
131	88.1	68.8	103.2

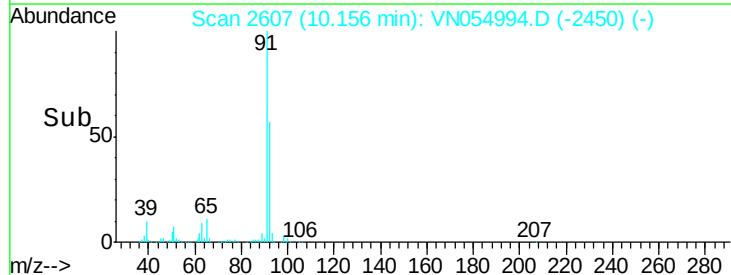
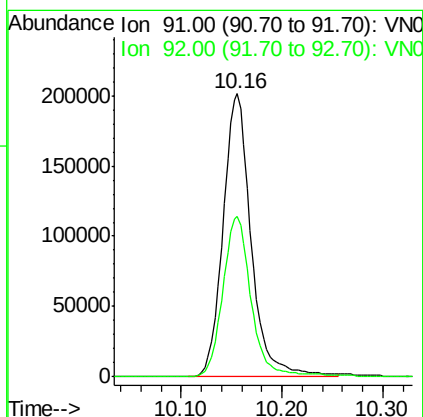
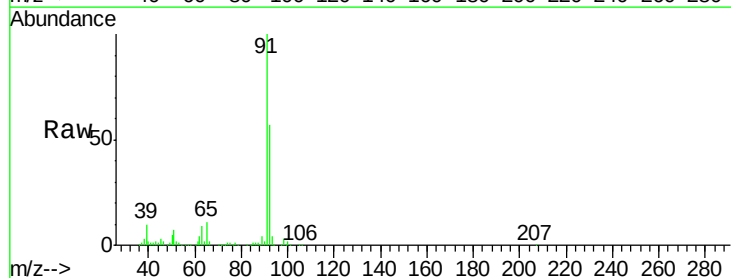
Manual Integrations
APPROVED

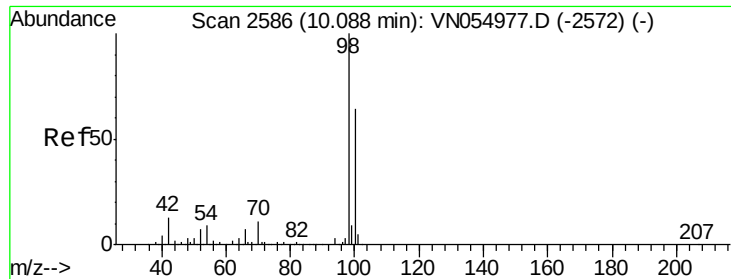
MMDadoda
4/17/2019 9:36:54 AM



#62
Toluene
Concen: 20.369 ug/l
RT: 10.16 min Scan# 2607
Delta R.T. 0.00 min
Lab File: VN054994.D
Acq: 12 Apr 2019 12:36

Tgt Ion	Ratio	Lower	Upper
91	100		
92	57.5	44.8	67.2





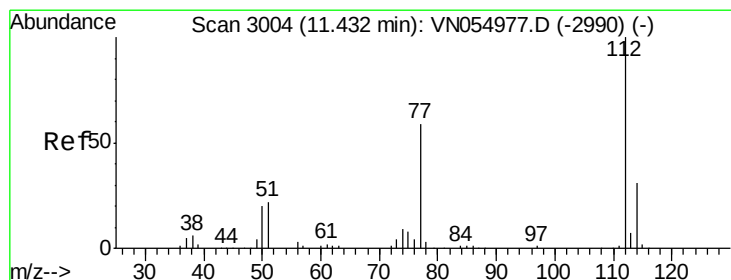
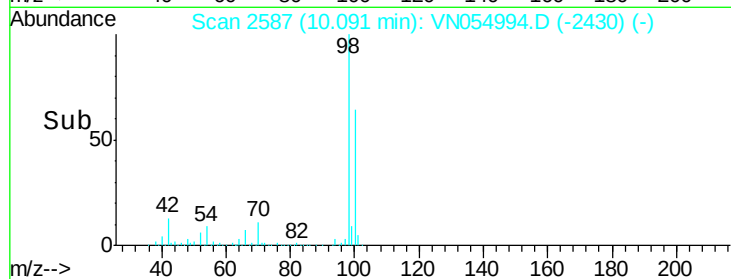
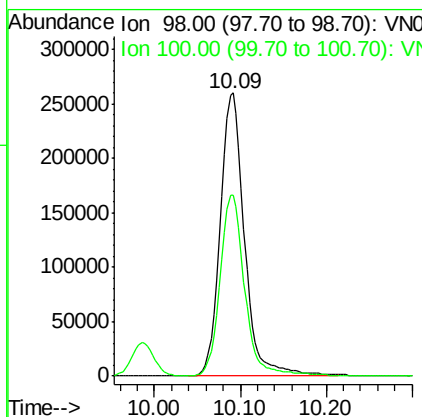
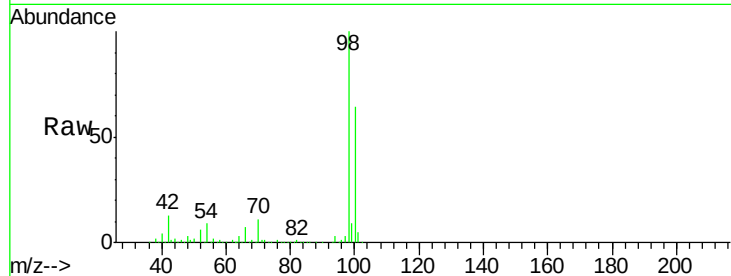
#63
Toluene-d8
Concen: 20.369 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN054994.D
Acq: 12 Apr 2019 12:36

Instrument :
MSVOA_N
ClientSampleId :
VN0412WBS01

Tot Ion: 98 Resp: 511530
Ion Ratio Lower Upper
98 100
100 64.8 51.1 76.7

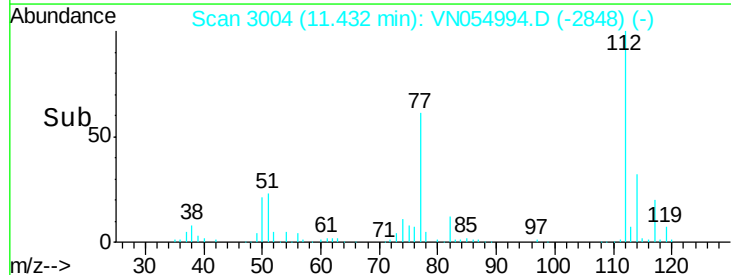
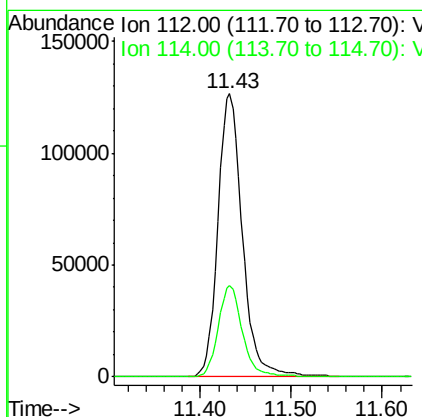
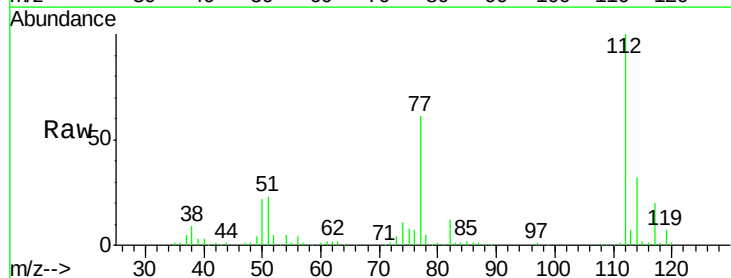
Manual Integrations
APPROVED

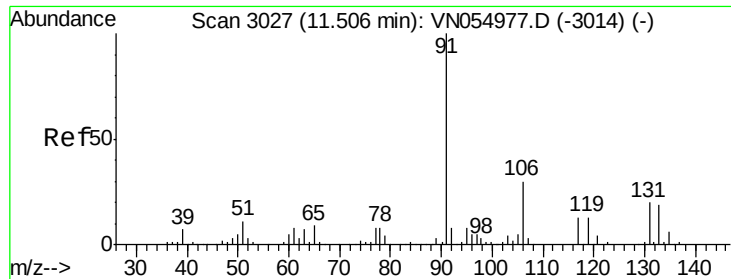
MMDadoda
4/17/2019 9:36:54 AM



#64
Chlorobenzene
Concen: 20.369 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN054994.D
Acq: 12 Apr 2019 12:36

Tgt Ion: 112 Resp: 236815
Ion Ratio Lower Upper
112 100
114 32.2 25.1 37.7





#65

1,1,1,2-Tetrachloroethane

Concen: 20.569 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. 0.00 min

Lab File: VN054994.D

Acq: 12 Apr 2019 12:36

Instrument :

MSVOA_N

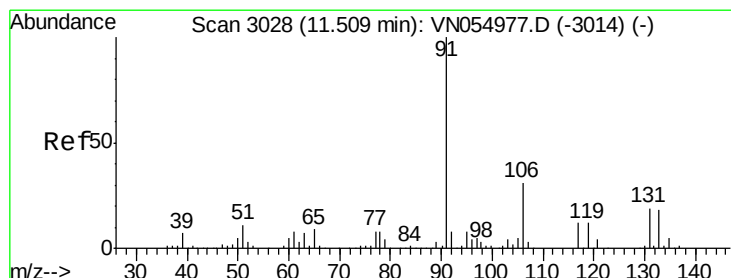
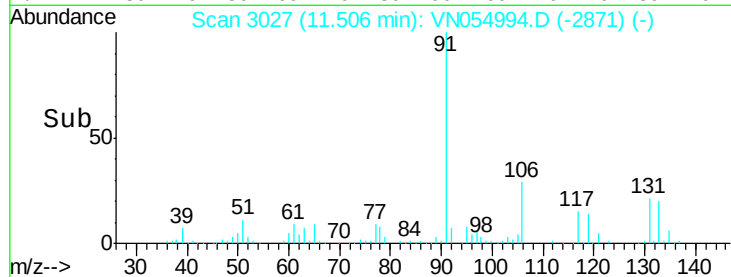
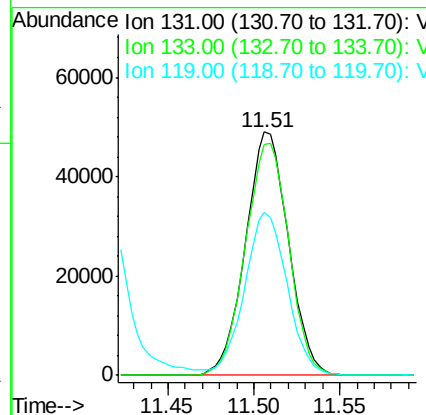
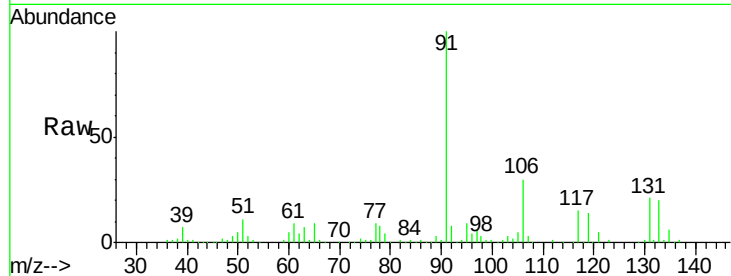
ClientSampleId :

VN0412WBS01

Tot Ion	Ratio	Lower	Upper
131	100		
133	96.1	0.0	187.8
119	66.4	0.0	131.4

Manual Integrations
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4/17/2019 9:36:54 AM



#66

Ethyl Benzene

Concen: 20.140 ug/l

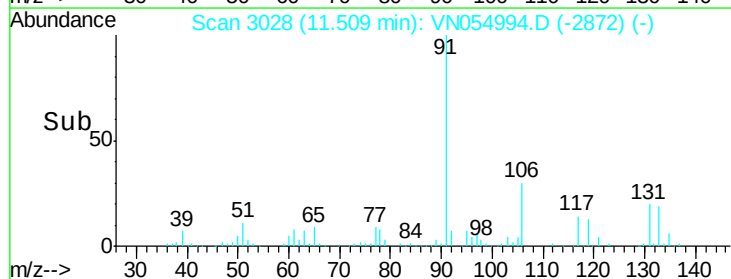
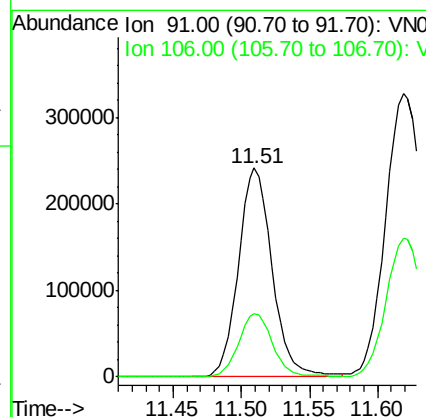
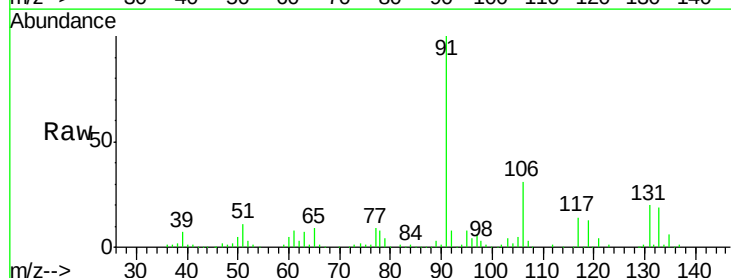
RT: 11.51 min Scan# 3028

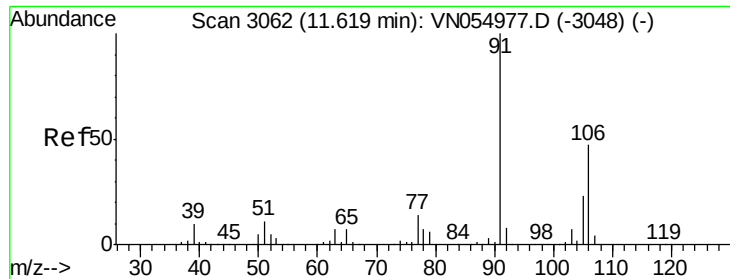
Delta R.T. 0.00 min

Lab File: VN054994.D

Acq: 12 Apr 2019 12:36

Tgt Ion	Ratio	Lower	Upper
91	100		
106	30.5	24.6	36.8





#67

m/p-Xylenes

Concen: 40.725 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. 0.00 min

Lab File: VN054994.D

Acq: 12 Apr 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

VN0412WBS01

Tot Ion:106 Resp: 312499

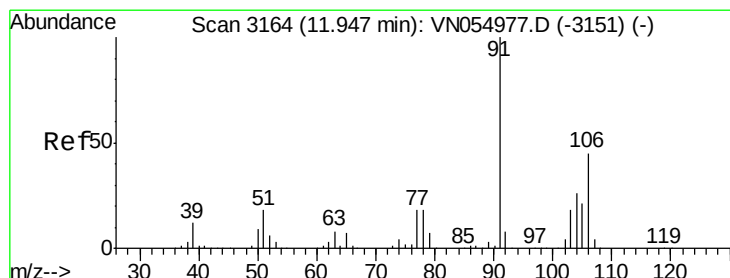
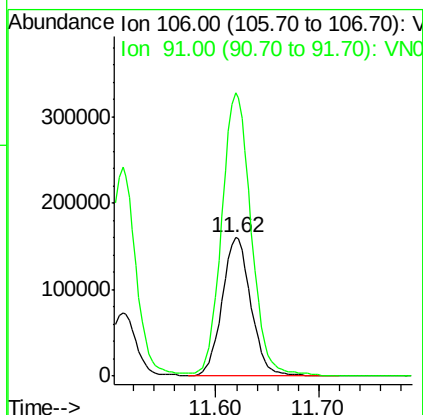
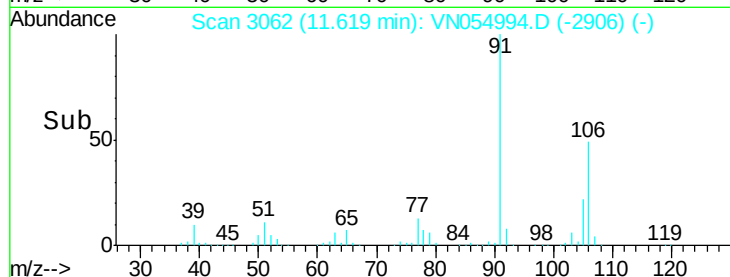
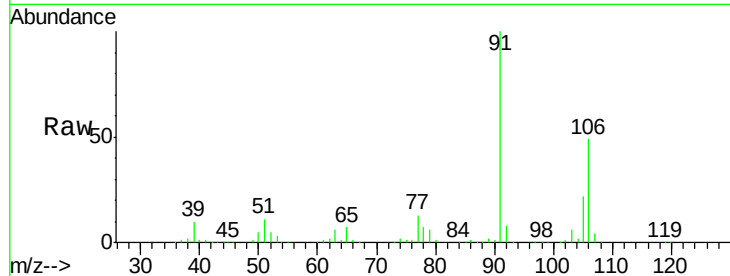
Ion Ratio Lower Upper

106 100

91 208.9 167.4 251.2

Manual Integrations
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#68

o-Xylene

Concen: 20.283 ug/l

RT: 11.95 min Scan# 3164

Delta R.T. 0.00 min

Lab File: VN054994.D

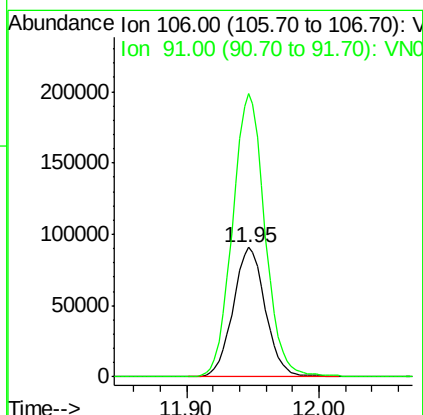
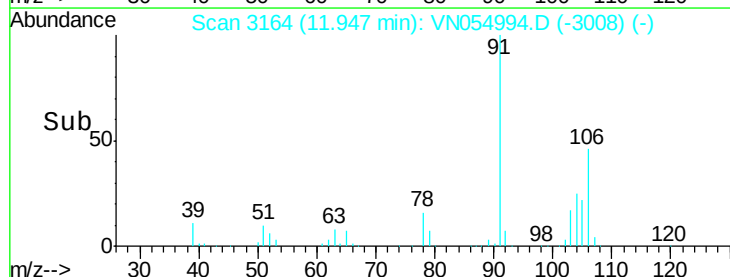
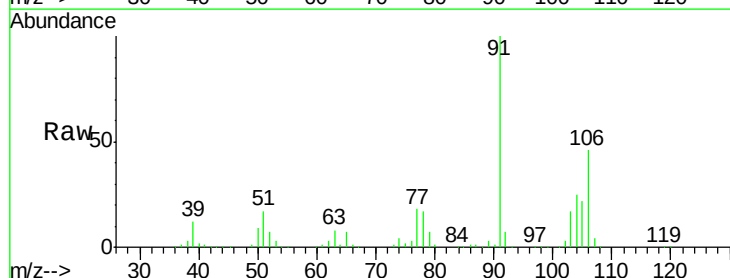
Acq: 12 Apr 2019 12:36

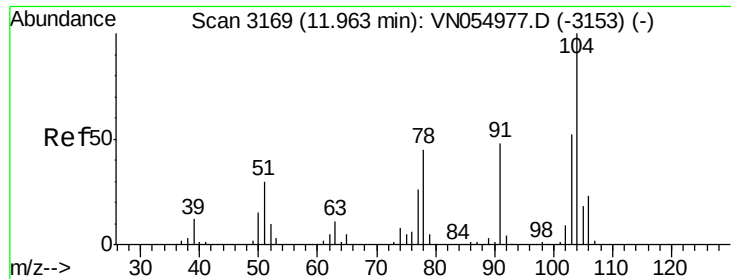
Tgt Ion:106 Resp: 153804

Ion Ratio Lower Upper

106 100

91 219.2 110.3 330.8





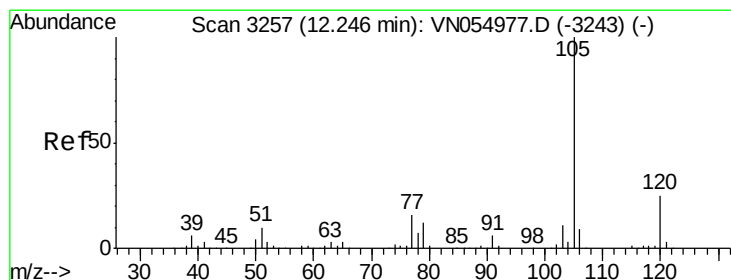
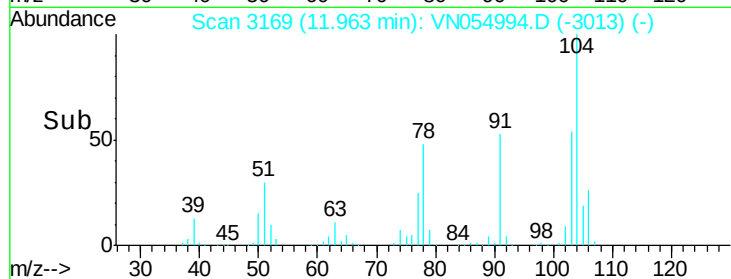
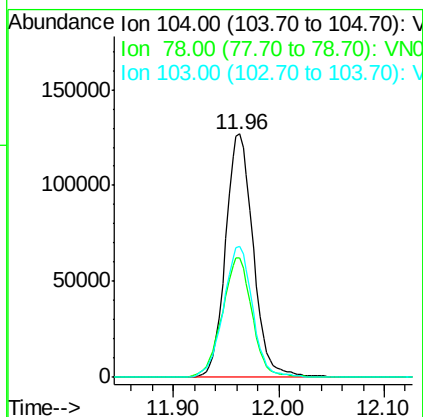
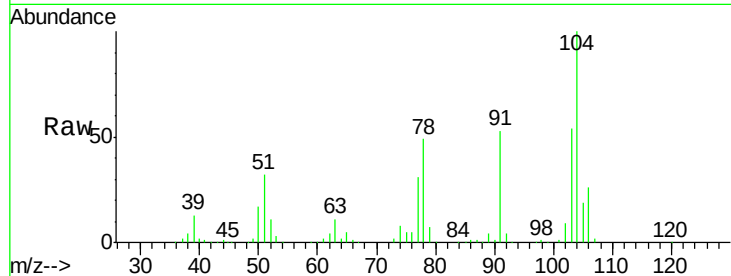
#69
Stvrene
Concen: 19.558 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN054994.D
Acq: 12 Apr 2019 12:36

Instrument :
MSVOA_N
ClientSampleId :
VN0412WBS01

Tot Ion	Ratio	Lower	Upper
104	100		
78	53.2	41.2	61.8
103	56.7	44.6	67.0

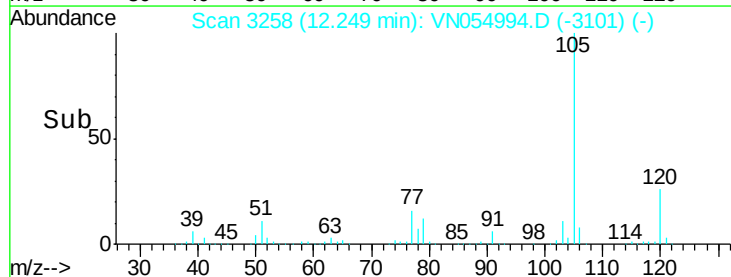
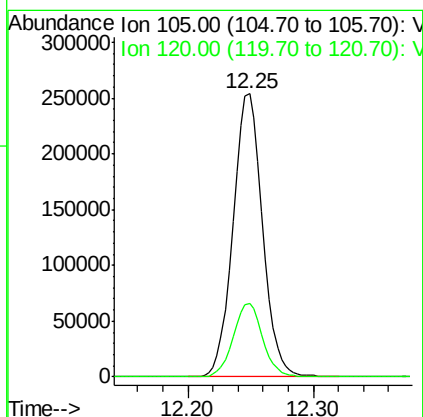
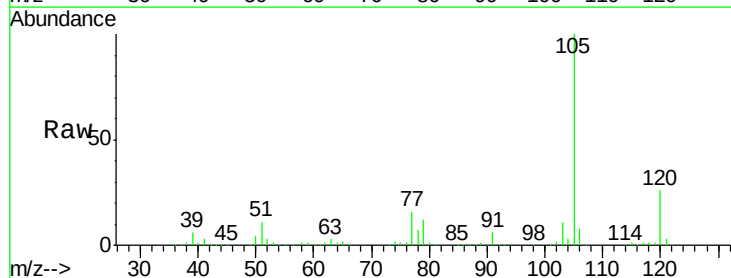
Manual Integrations
APPROVED

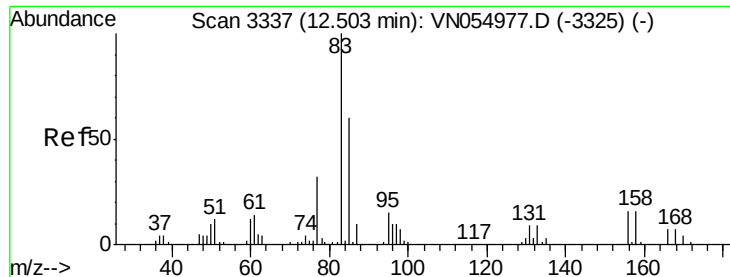
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#70
Isopropylbenzene
Concen: 20.395 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN054994.D
Acq: 12 Apr 2019 12:36

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.9	18.3	33.9





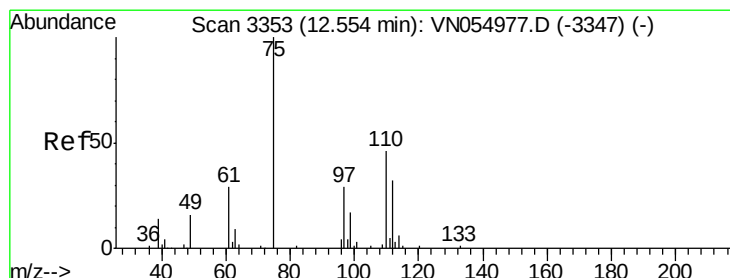
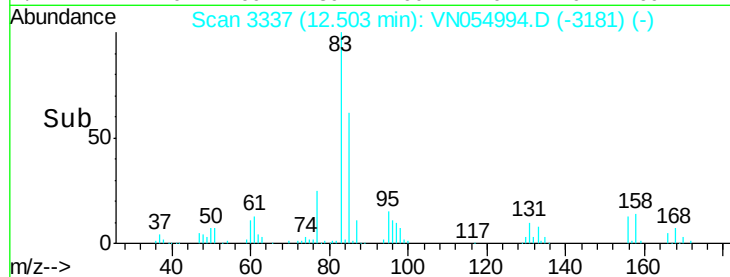
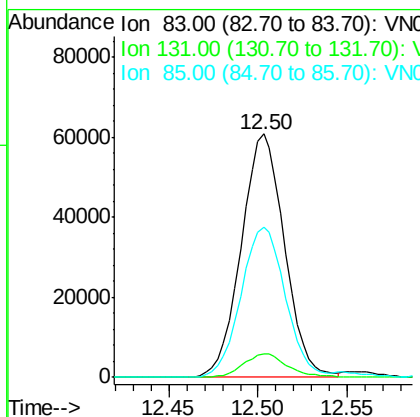
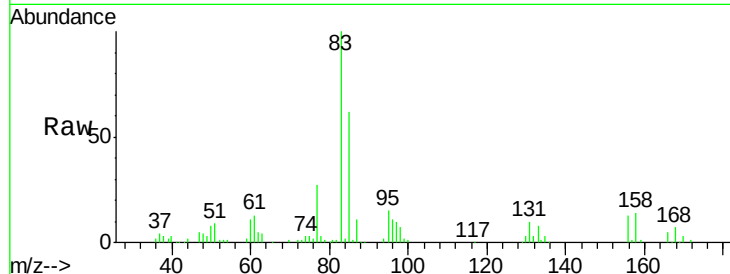
#71
 1,1,2,2-Tetrachloroethane
 Concen: 22.270 ug/l
 RT: 12.50 min Scan# 3337
 Delta R.T. 0.00 min
 Lab File: VN054994.D
 Acq: 12 Apr 2019 12:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0412WBS01

Tot Ion	83	Resp	103269
Ion Ratio	100	Lower	Upper
83	100		
131	9.9	4.6	13.8
85	63.1	30.9	92.5

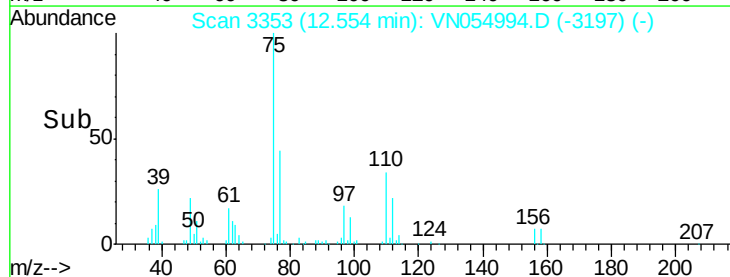
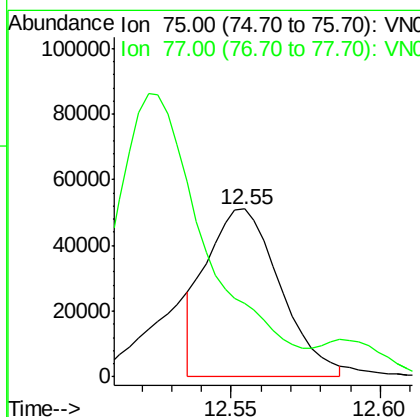
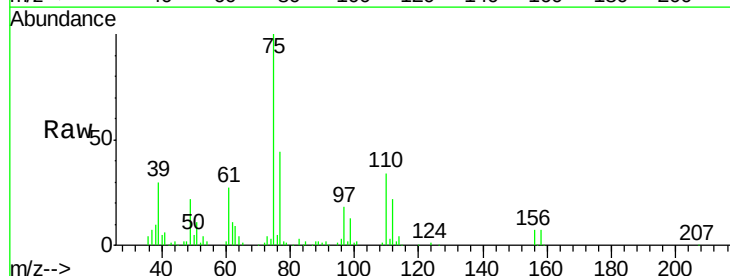
Manual Integrations
 APPROVED

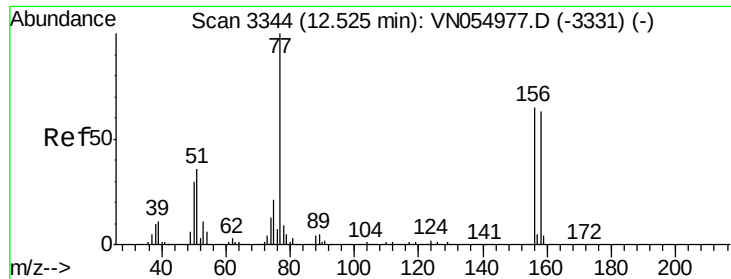
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#72
 1,2,3-Trichloropropane
 Concen: 22.971 ug/l m
 RT: 12.55 min Scan# 3353
 Delta R.T. 0.00 min
 Lab File: VN054994.D
 Acq: 12 Apr 2019 12:36

Tgt Ion	75	Resp	87971
Ion Ratio	100	Lower	Upper
75	100		
77	18.2	0.0	466.6





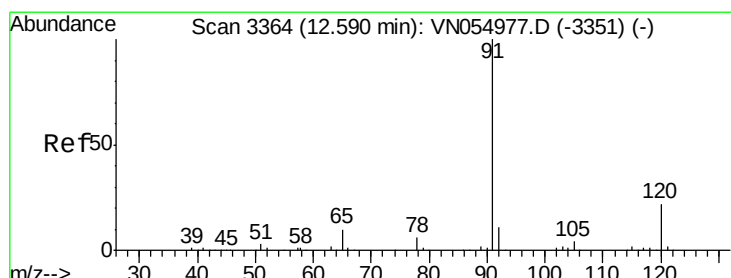
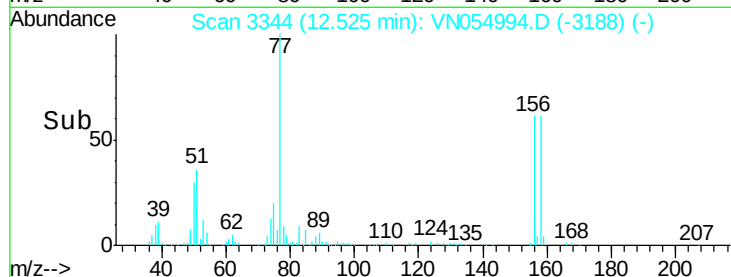
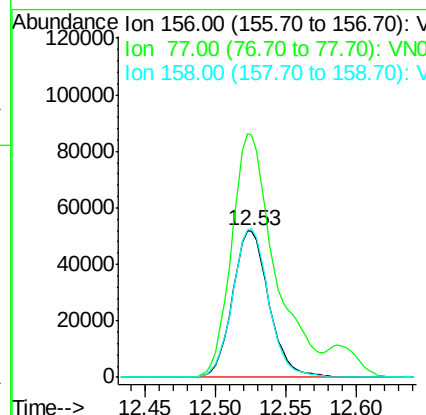
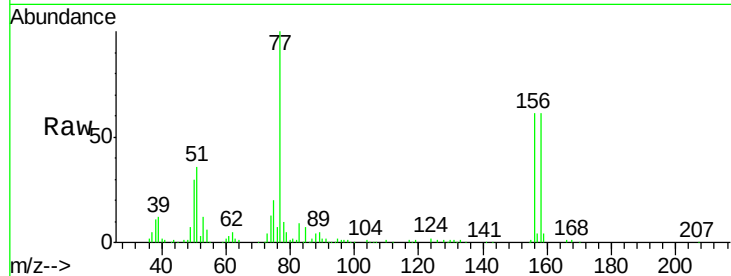
#73
Bromobenzene
Concen: 19.605 ug/l
RT: 12.53 min Scan# 3344
Delta R.T. 0.00 min
Lab File: VN054994.D
Acq: 12 Apr 2019 12:36

Instrument :
MSVOA_N
ClientSampleId :
VN0412WBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
156	100		93948		
77	198.0	0.0	383.2		
158	100.2	0.0	193.8		

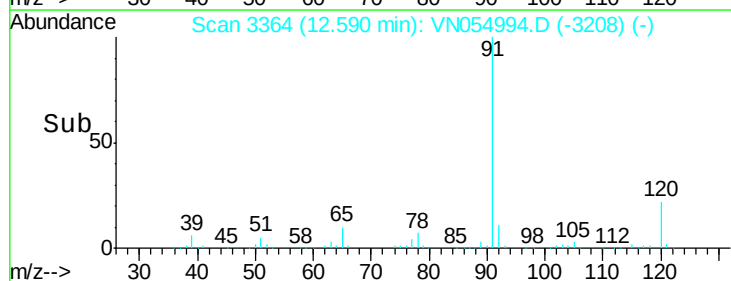
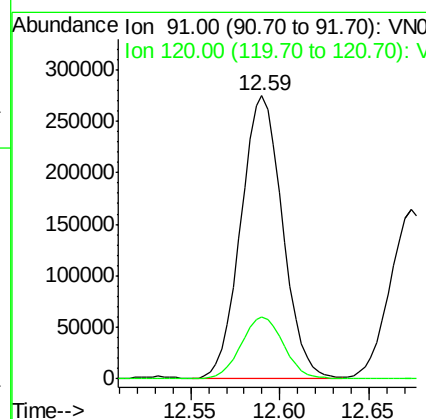
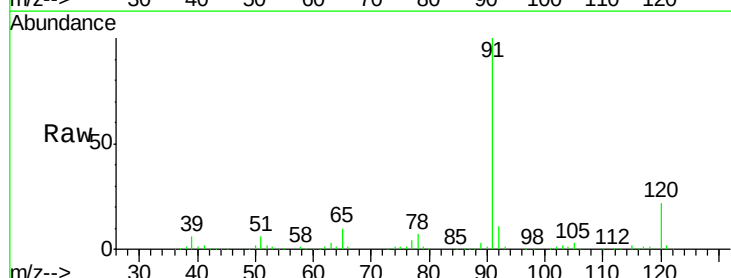
Manual Integrations
APPROVED

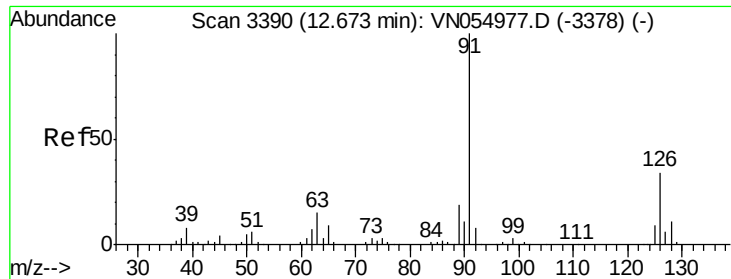
MMDadoda
4/17/2019 9:36:54 AM



#74
n-propylbenzene
Concen: 19.697 ug/l
RT: 12.59 min Scan# 3364
Delta R.T. 0.00 min
Lab File: VN054994.D
Acq: 12 Apr 2019 12:36

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
91	100		447067		
120	22.3	0.0	44.4		





#75

2-Chlorotoluene

Concen: 20.243 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN054994.D

Acq: 12 Apr 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

VN0412WBS01

Tot Ion: 91 Resp: 277106

Ion Ratio Lower Upper

91 100

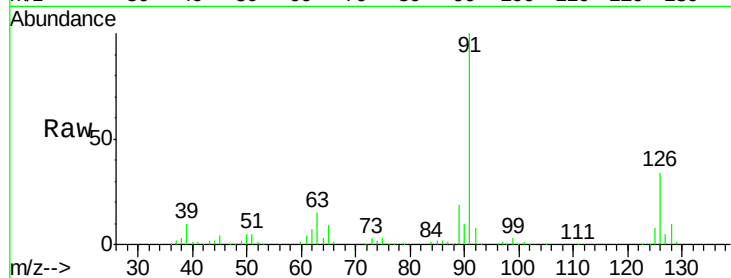
126 34.1 0.0 67.4

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VN054977.D (-3378) (-)

Ion 126.00 (125.70 to 126.70): VN054977.D (-3378) (-)

200000

150000

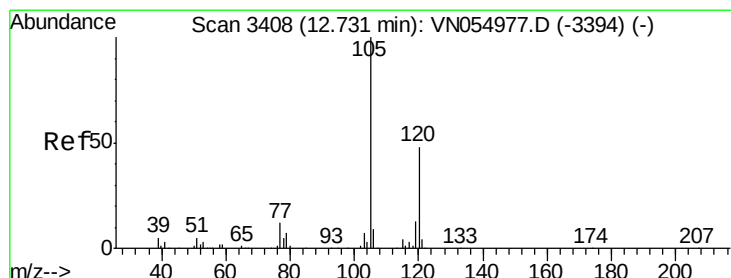
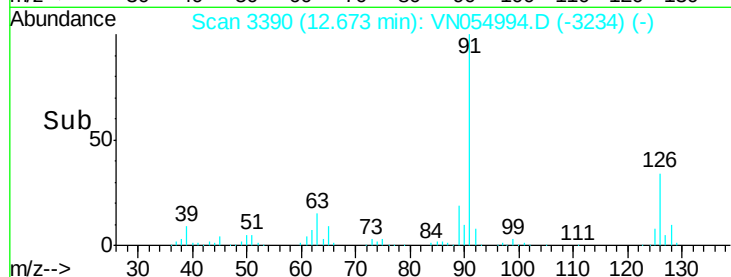
100000

50000

0

12.60 12.65 12.70

Time-->



#76

1,3,5-Trimethylbenzene

Concen: 20.120 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN054994.D

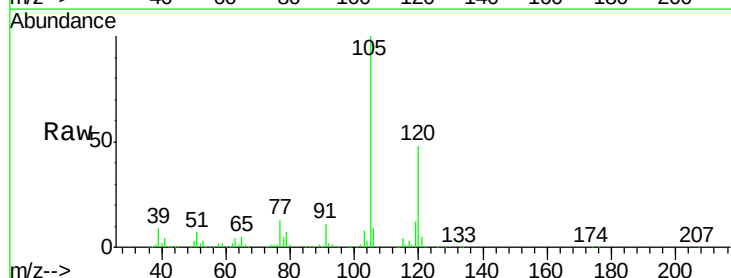
Acq: 12 Apr 2019 12:36

Tgt Ion: 105 Resp: 329798

Ion Ratio Lower Upper

105 100

120 47.9 0.0 94.8



Abundance Ion 105.00 (104.70 to 105.70): VN054977.D (-3394) (-)

Ion 120.00 (119.70 to 120.70): VN054977.D (-3394) (-)

200000

150000

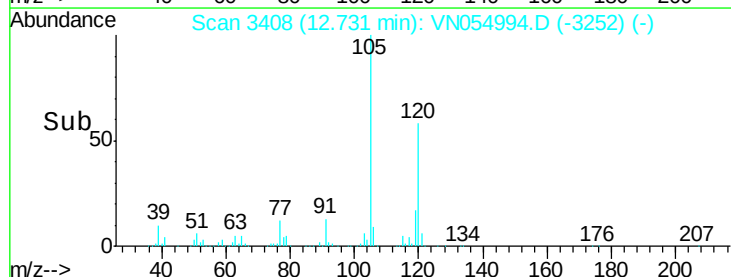
100000

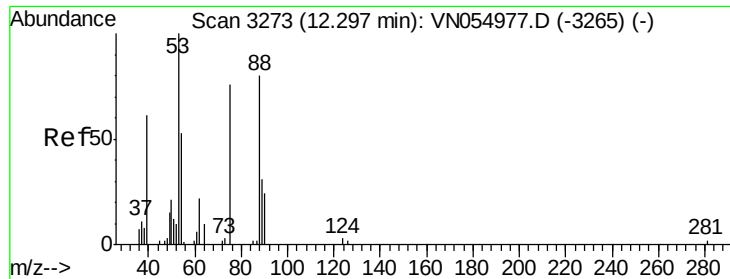
50000

0

12.65 12.70 12.75 12.80

Time-->





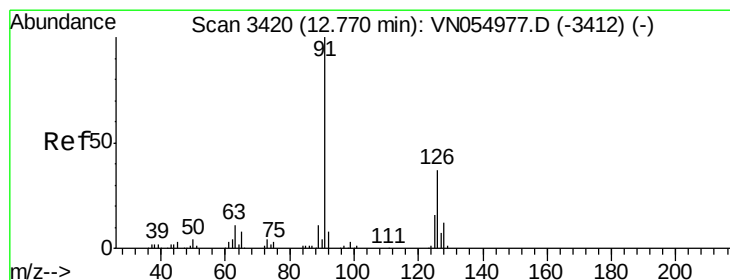
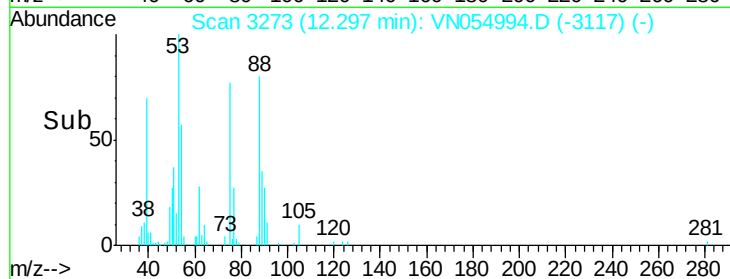
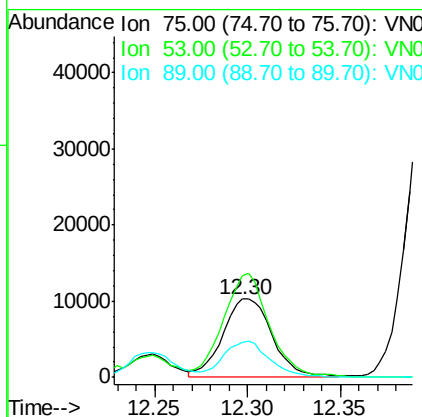
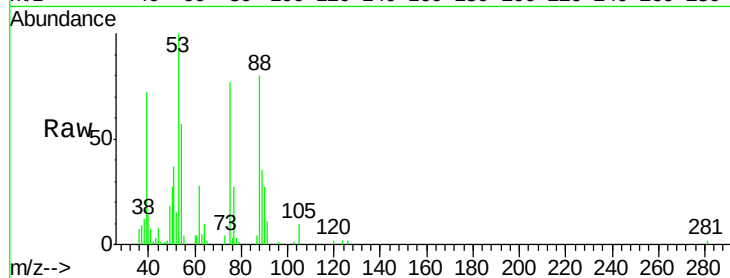
#77
t-1,4-Dichloro-2-butene
Concen: 19.796 ug/l
RT: 12.30 min Scan# 3273
Delta R.T. 0.00 min
Lab File: VN054994.D
Acq: 12 Apr 2019 12:36

Instrument :
MSVOA_N
ClientSampleId :
VN0412WBS01

Tot Ion	Ratio	Lower	Upper
75	100		
53	129.6	64.3	192.7
89	45.9	21.6	65.0

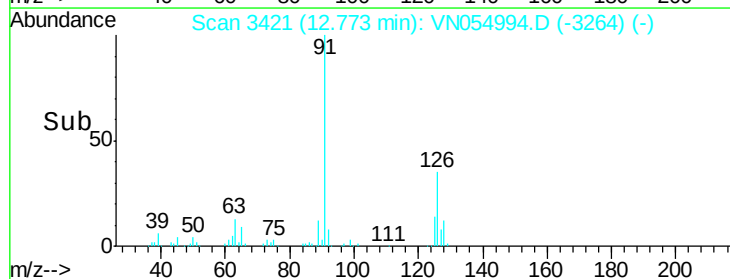
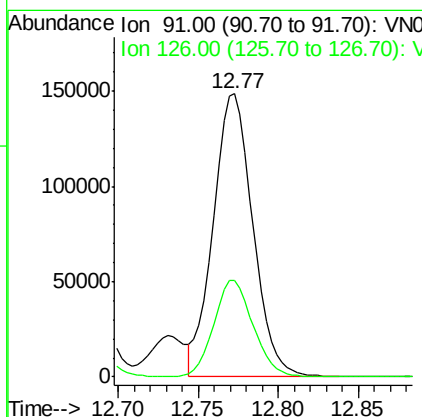
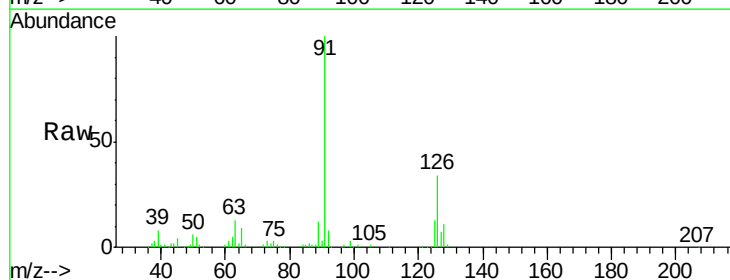
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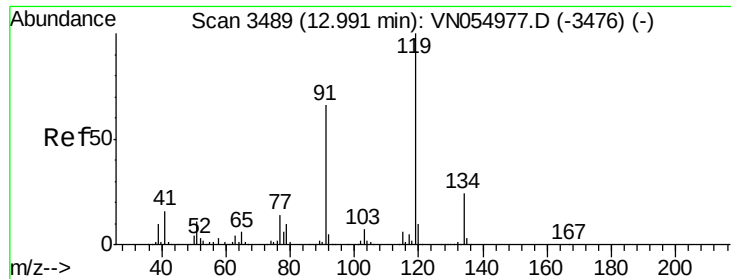
MMDadoda
4/17/2019 9:36:54 AM



#78
4-Chlorotoluene
Concen: 19.337 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN054994.D
Acq: 12 Apr 2019 12:36

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.0	0.0	66.6





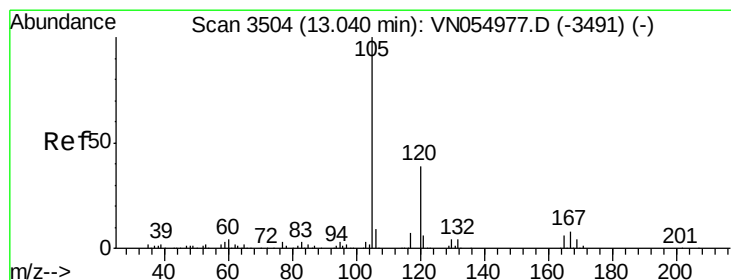
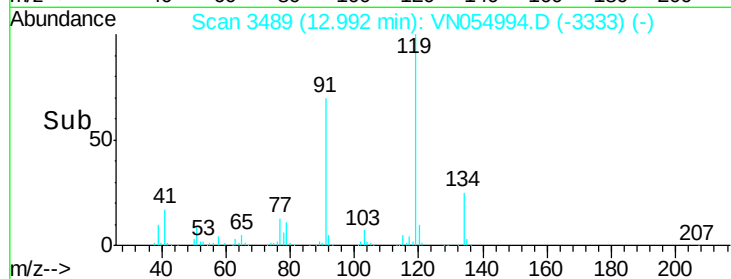
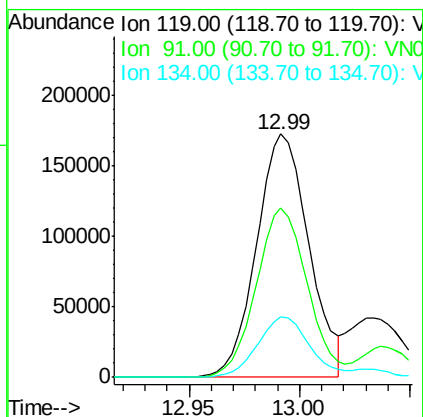
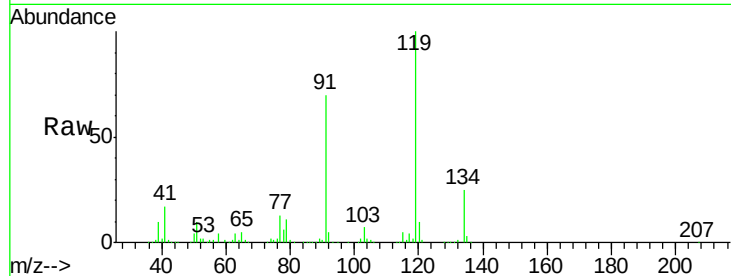
#79
tert-butylbenzene
Concen: 20.033 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. 0.00 min
Lab File: VN054994.D
Acq: 12 Apr 2019 12:36

Instrument :
MSVOA_N
ClientSampleId :
VN0412WBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	284126		
91	68.1	0.0	132.6	
134	24.6	0.0	47.6	

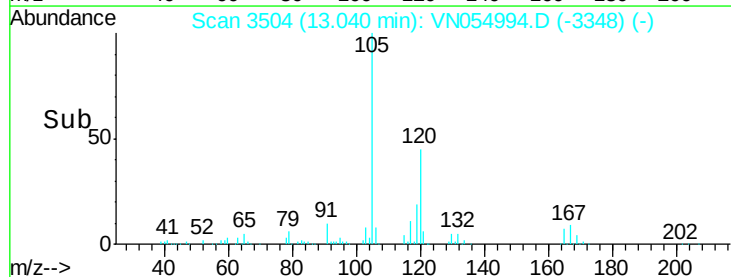
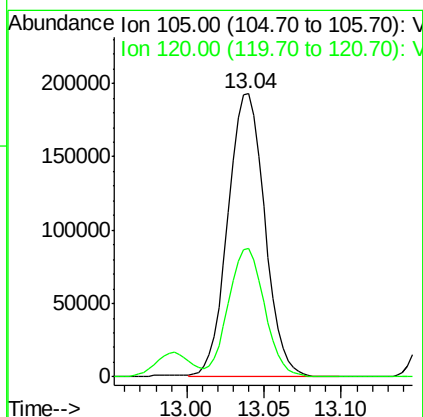
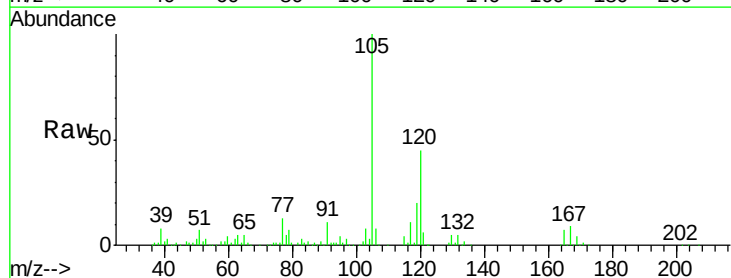
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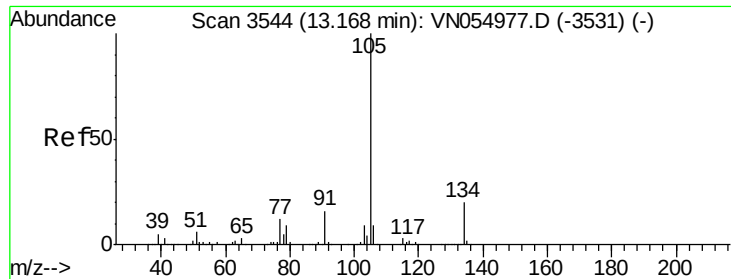
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#80
1,2,4-Trimethylbenzene
Concen: 19.830 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN054994.D
Acq: 12 Apr 2019 12:36

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	319312		
120	44.6	0.0	91.4	





#81

sec-Butylbenzene

Concen: 20.099 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN054994.D

Acq: 12 Apr 2019 12:36

Instrument :

MSVOA_N

ClientSampled :

VN0412WBS01

Tot Ion:105 Resp: 380892

Ion Ratio Lower Upper

105 100

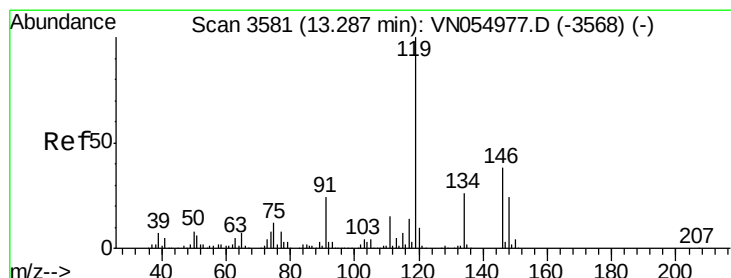
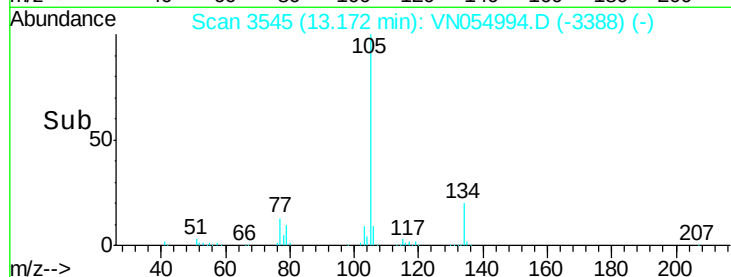
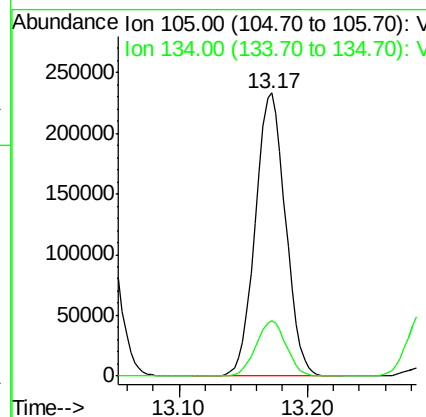
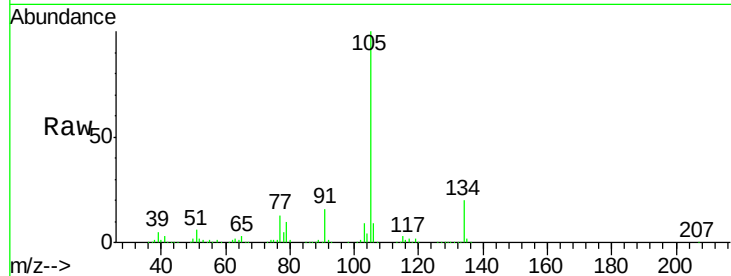
134 19.6 0.0 40.0

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#82

p-Isopropyltoluene

Concen: 19.353 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN054994.D

Acq: 12 Apr 2019 12:36

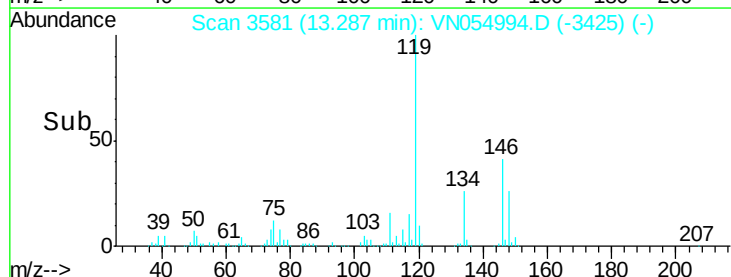
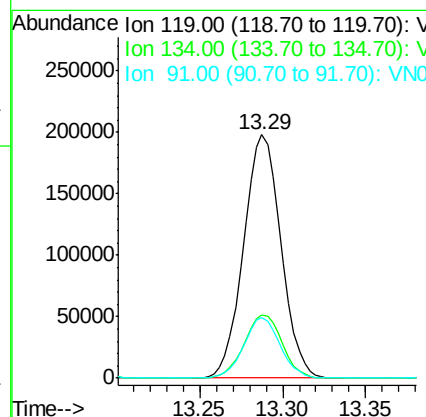
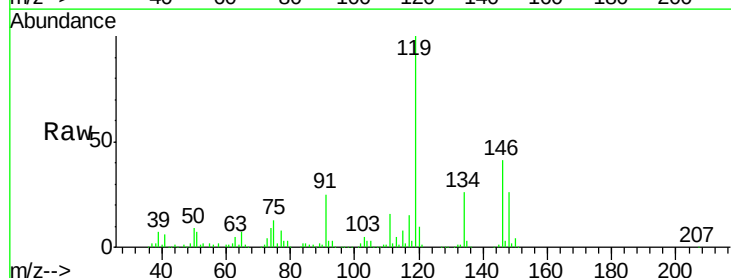
Tgt Ion:119 Resp: 309522

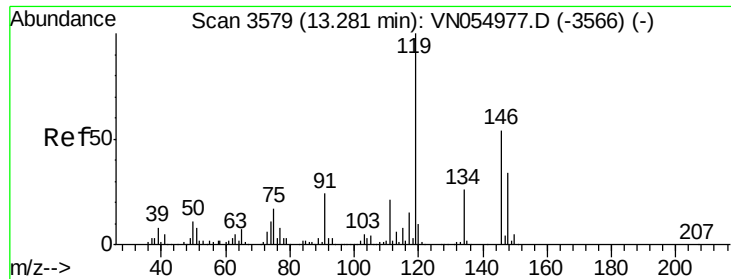
Ion Ratio Lower Upper

119 100

134 26.5 0.0 53.2

91 24.2 0.0 47.8





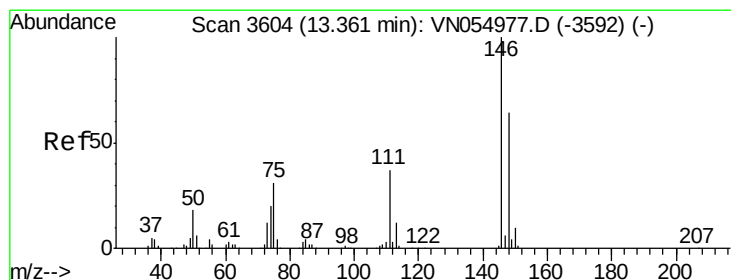
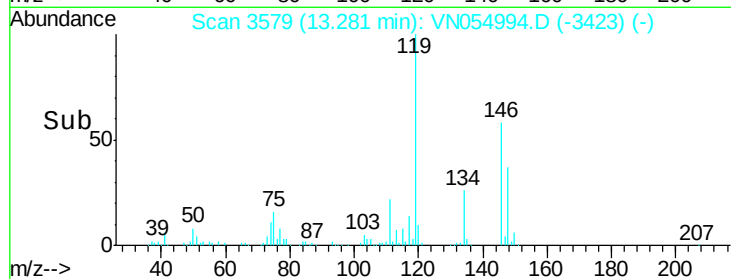
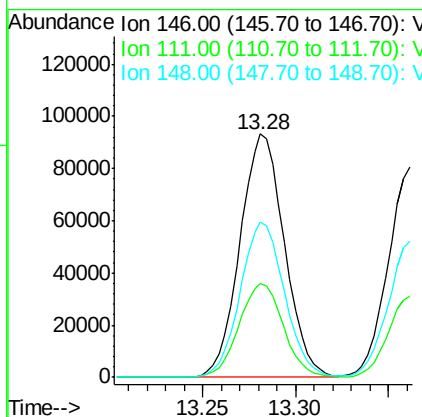
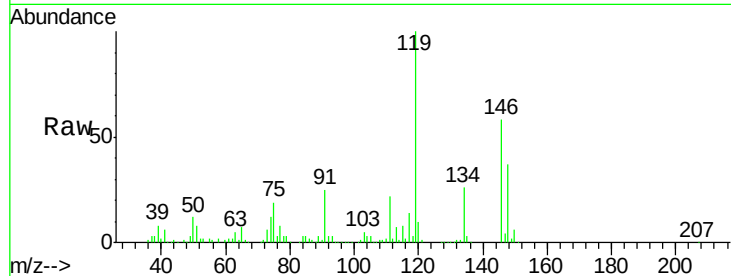
#83
 1,3-Dichlorobenzene
 Concen: 19.403 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. 0.00 min
 Lab File: VN054994.D
 Acq: 12 Apr 2019 12:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0412WBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.6	19.1	57.5
148	63.7	31.9	95.5

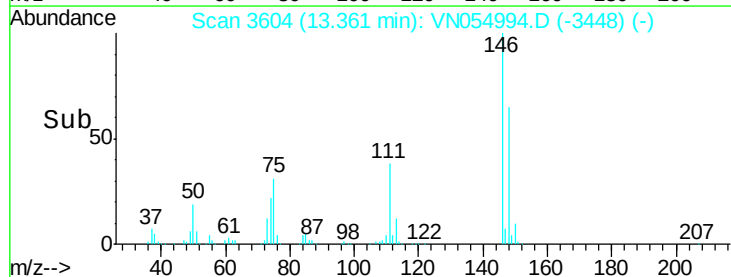
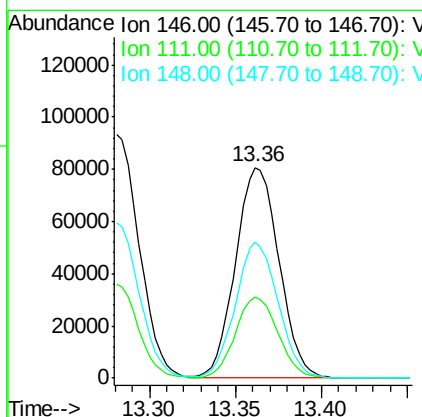
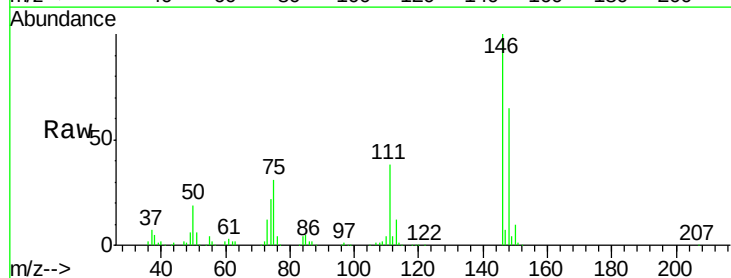
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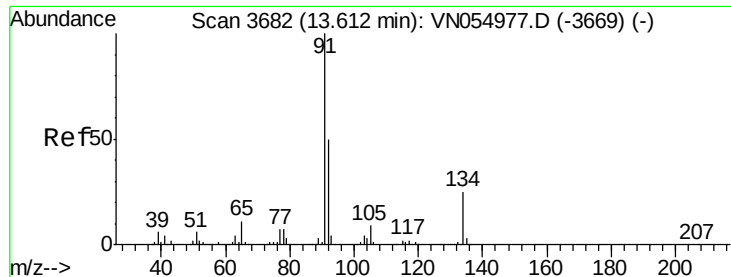
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#84
 1,4-Dichlorobenzene
 Concen: 18.579 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. 0.00 min
 Lab File: VN054994.D
 Acq: 12 Apr 2019 12:36

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.6	18.4	55.2
148	63.1	32.5	97.4





#85

n-Butylbenzene

Concen: 17.695 ug/l

RT: 13.61 min Scan# 3682

Delta R.T. 0.00 min

Lab File: VN054994.D

Acq: 12 Apr 2019 12:36

Instrument :

MSVOA_N

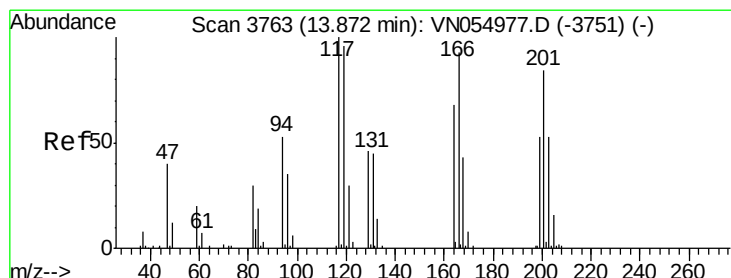
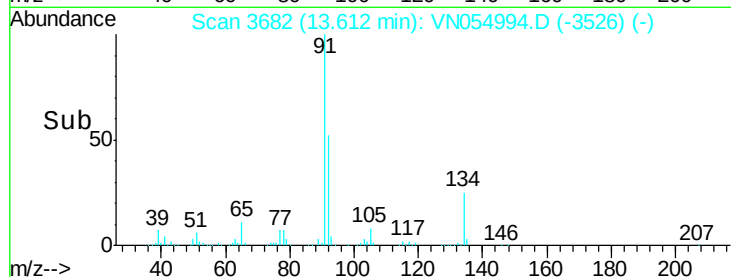
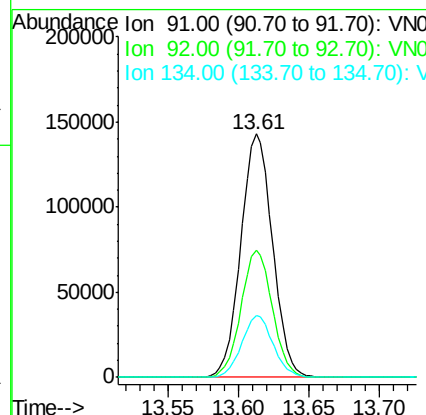
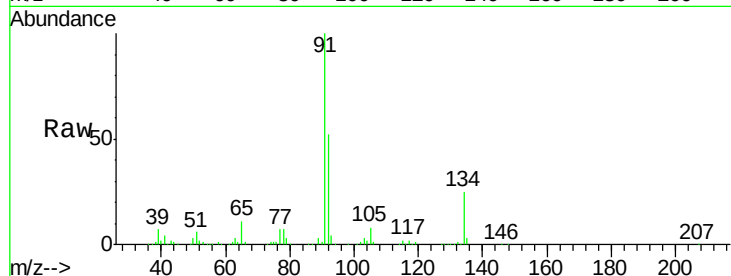
ClientSampleId :

VN0412WBS01

Tot Ion:	91	Resp:	225438
Ion Ratio	Lower	Upper	
91	100		
92	51.8	0.0	101.4
134	25.2	0.0	49.8

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#86

Hexachloroethane

Concen: 18.783 ug/l

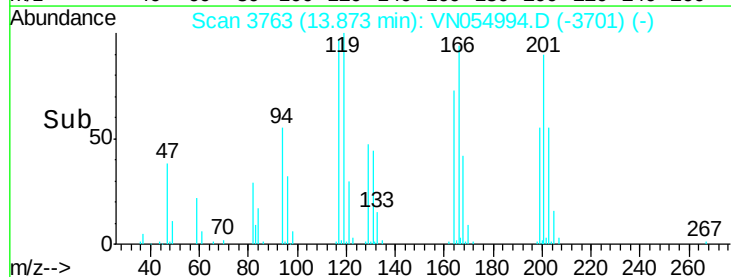
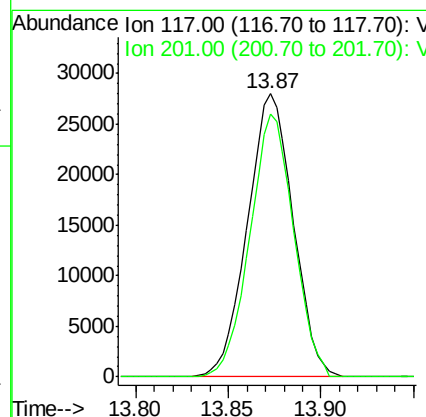
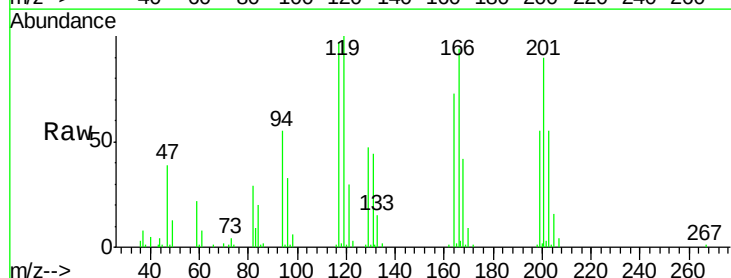
RT: 13.87 min Scan# 3763

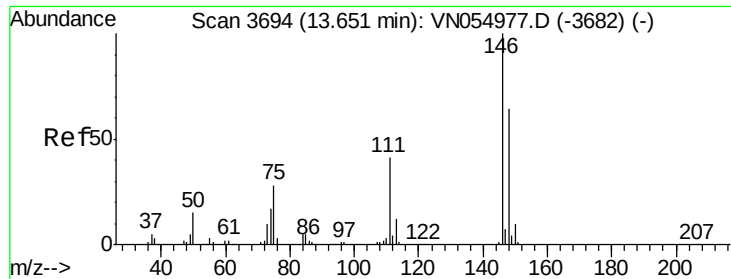
Delta R.T. 0.00 min

Lab File: VN054994.D

Acq: 12 Apr 2019 12:36

Tgt Ion:	117	Resp:	48091
Ion Ratio	Lower	Upper	
117	100		
201	89.0	42.8	128.3





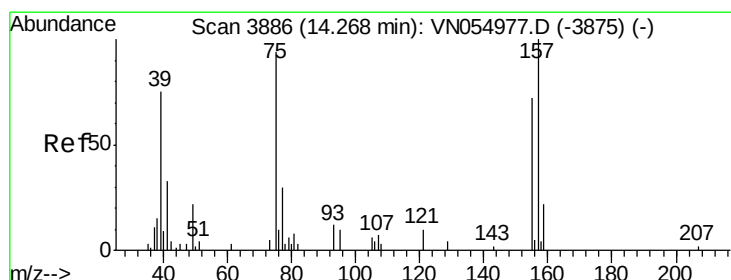
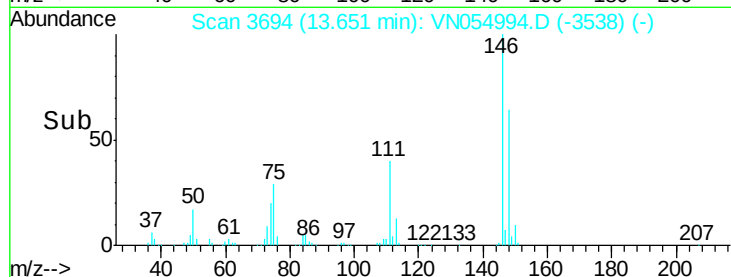
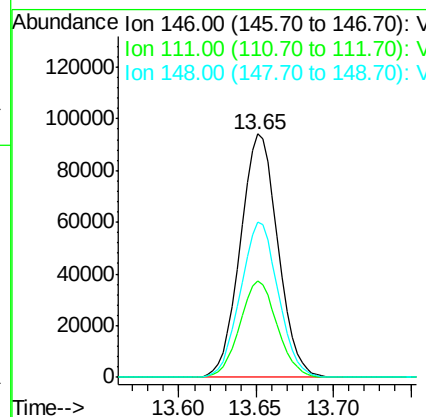
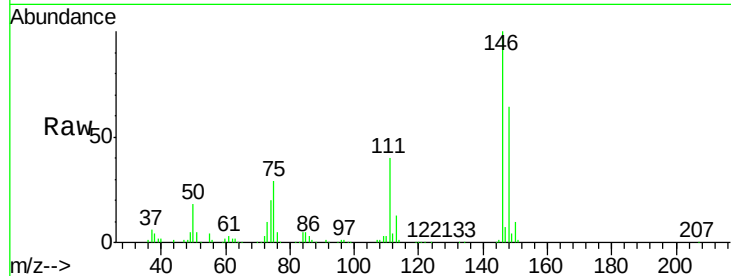
#87
 1,2-Dichlorobenzene
 Concen: 20.253 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. 0.00 min
 Lab File: VN054994.D
 Acq: 12 Apr 2019 12:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0412WBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.3	20.3	60.8
148	64.1	32.5	97.5

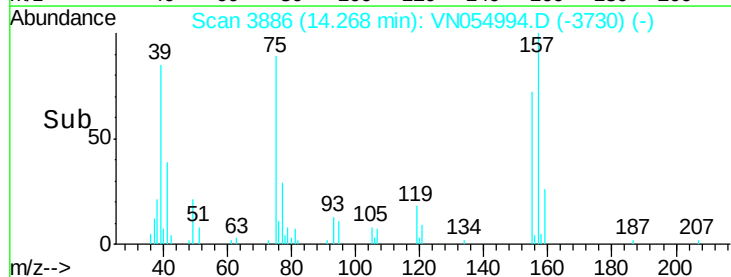
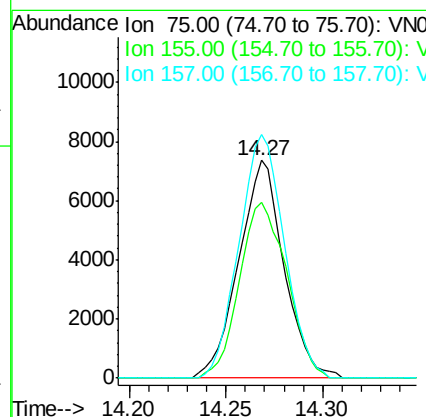
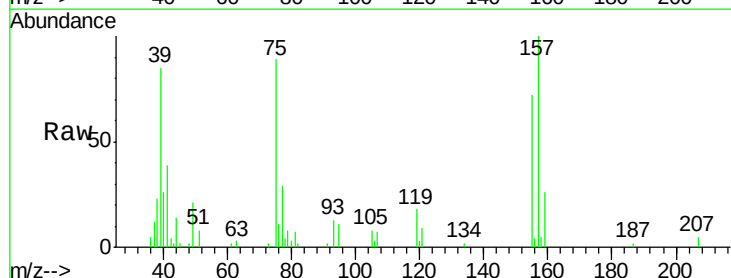
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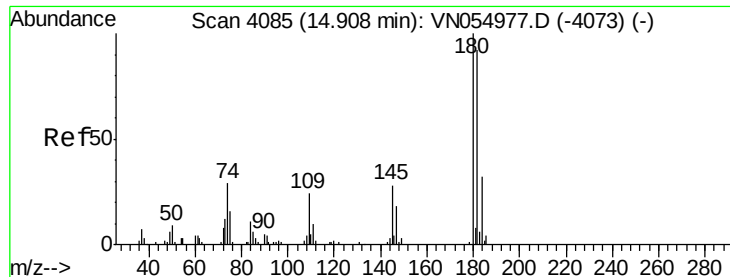
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 4/17/2019 9:36:54 AM



#88
 1,2-Dibromo-3-Chloropropane
 Concen: 19.420 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VN054994.D
 Acq: 12 Apr 2019 12:36

Tgt Ion	Ratio	Lower	Upper
75	100		
155	84.5	61.8	92.8
157	112.4	82.7	124.1





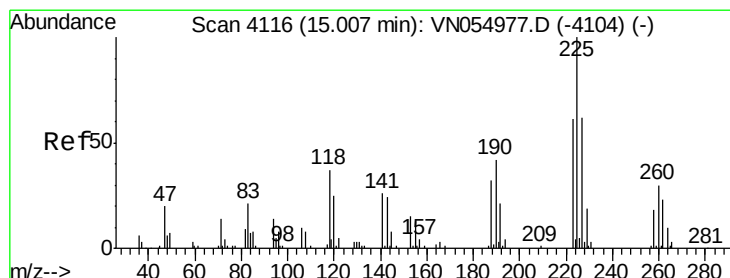
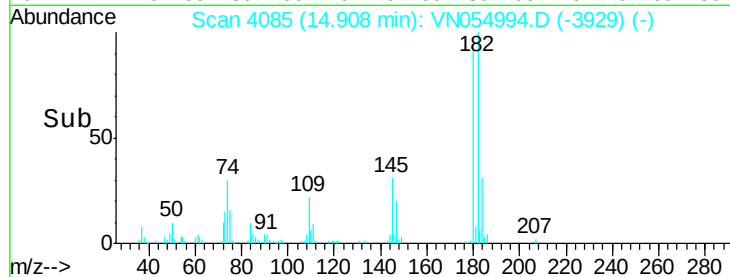
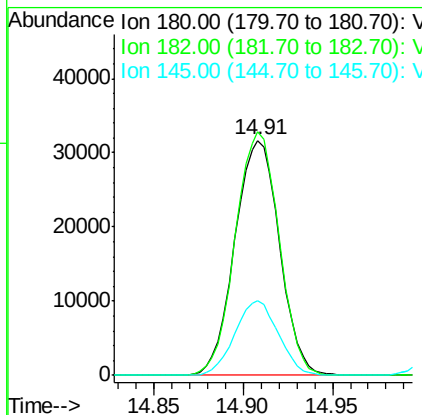
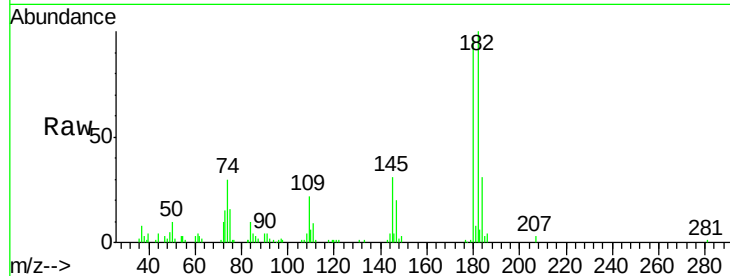
#89
 1,2,4-Trichlorobenzene
 Concen: 15.713 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN054994.D
 Acq: 12 Apr 2019 12:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0412WBS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	101.3	73.2	109.8
145	30.7	23.2	34.8

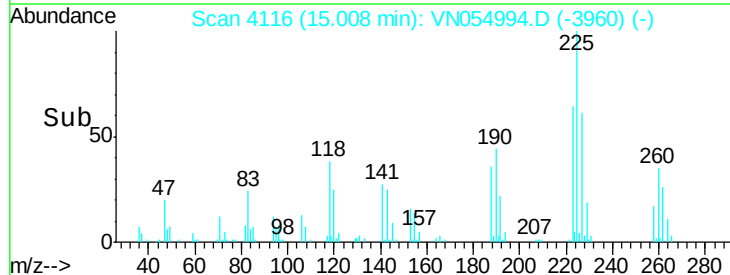
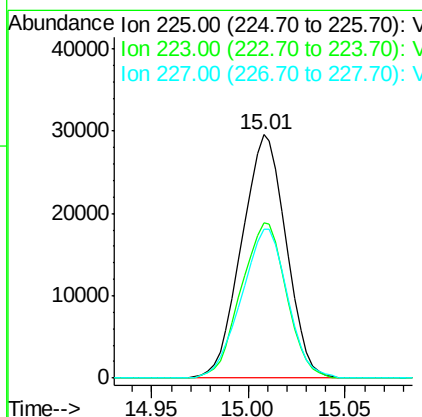
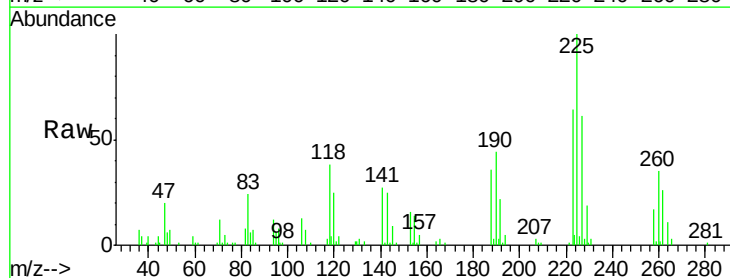
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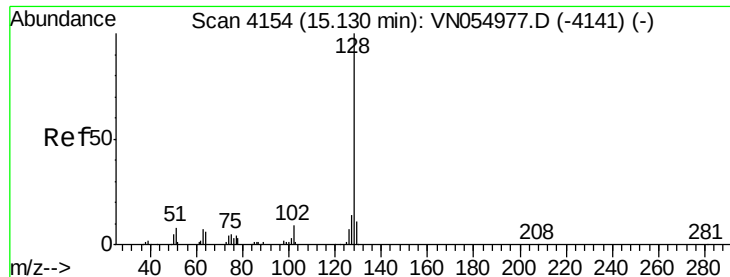
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#90
 Hexachlorobutadiene
 Concen: 18.520 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN054994.D
 Acq: 12 Apr 2019 12:36

Tgt Ion	Ratio	Lower	Upper
225	100		
223	64.9	0.0	126.0
227	63.4	0.0	125.4





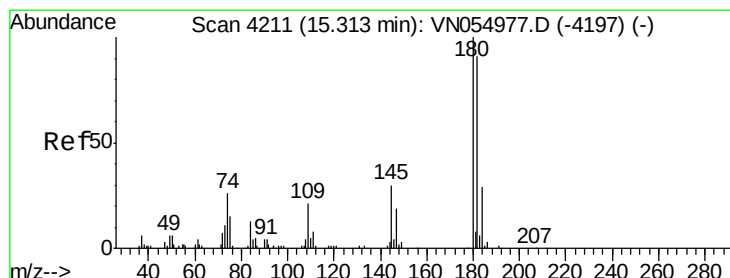
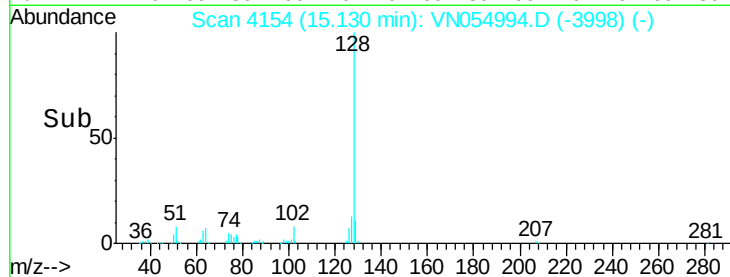
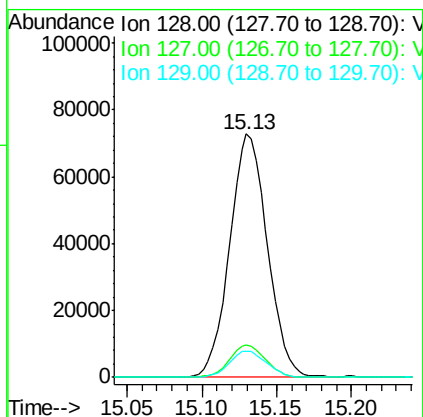
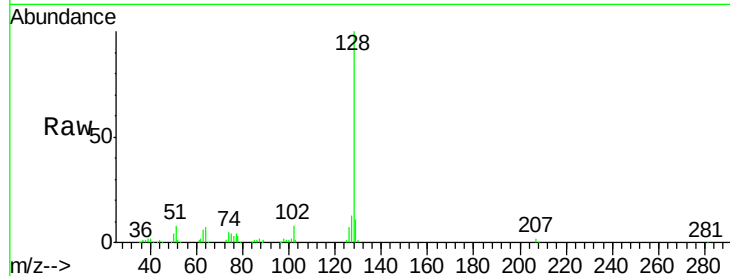
#91
Naphthalene
Concen: 17.357 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. 0.00 min
Lab File: VN054994.D
Acq: 12 Apr 2019 12:36

Instrument :
MSVOA_N
ClientSampleId :
VN0412WBS01

Tot Ion	Ratio	Resp	Lower	Upper
128	100	127571		
127	12.6		10.6	15.8
129	10.6		9.0	13.6

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#92
1,2,3-Trichlorobenzene
Concen: 17.769 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. 0.00 min
Lab File: VN054994.D
Acq: 12 Apr 2019 12:36

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	62378		
182	92.4		0.0	188.2
145	31.9		0.0	61.2

