

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041519\
 Data File : VN055049.D
 Acq On : 15 Apr 2019 18:15
 Operator : JC/SP
 Sample : K2241-07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT2-2019

Manual Integrations
 APPROVED

MMDadoda
 4/17/2019 2:06:00 PM

Quant Time: Apr 17 13:58:12 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N041519W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 17 13:52:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	377333	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	632898	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	542935	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	171331	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.02	65	266062	53.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.10%	
35) Dibromofluoromethane	7.59	113	213146	50.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.78%	
50) Toluene-d8	10.09	98	763941	50.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.92%	
62) 4-Bromofluorobenzene	12.40	95	228639	46.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.92%	

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	1.85	85	2767	0.645	ug/l	99
3) Chloromethane	2.06	50	3764	0.673	ug/l	93
4) Vinyl Chloride	2.19	62	2666	0.567	ug/l	90
5) Bromomethane	2.55	94	2437	0.916	ug/l	93
6) Chloroethane	2.69	64	2078	0.820	ug/l #	87
7) Trichlorofluoromethane	3.02	101	4026	0.685	ug/l #	80
8) Diethyl Ether	3.41	74	1226	0.653	ug/l #	43
9) 1,1,2-Trichlorotrifluoroet	3.75	101	2064	0.671	ug/l	92
10) Methyl Iodide	3.94	142	13569	2.842	ug/l	95
11) Tert butyl alcohol	4.82	59	3709m	13.491	ug/l	
12) 1,1-Dichloroethene	3.73	96	2137	0.714	ug/l #	65
13) Acrolein	3.60	56	5688	16.738	ug/l	94
14) Allyl chloride	4.31	41	4120m	0.562	ug/l	
15) Acrylonitrile	4.99	53	5010	3.046	ug/l #	56
16) Acetone	3.82	43	4357	3.201	ug/l	99
17) Carbon Disulfide	4.04	76	5890	0.609	ug/l #	75
18) Methyl Acetate	4.33	43	5074	1.162	ug/l #	80
19) Methyl tert-butyl Ether	5.05	73	6761m	0.631	ug/l	
20) Methylene Chloride	4.55	84	4181	0.874	ug/l #	84
21) trans-1,2-Dichloroethene	5.03	96	2324	0.574	ug/l #	71
22) Diisopropyl ether	5.97	45	8685	0.576	ug/l #	84
23) Vinyl Acetate	5.91	43	26809	2.691	ug/l	96
24) 1,1-Dichloroethane	5.84	63	5003	0.623	ug/l #	85
25) 2-Butanone	6.85	43	6396m	3.148	ug/l	
26) 2,2-Dichloropropane	6.82	77	3044	0.601	ug/l #	65
27) cis-1,2-Dichloroethene	6.82	96	3222	0.703	ug/l	87
28) Bromochloromethane	7.19	49	2457	0.635	ug/l #	92
29) Tetrahydrofuran	7.23	42	4817	3.615	ug/l #	76
30) Chloroform	7.37	83	5115	0.656	ug/l	93
31) Cyclohexane	7.66	56	12292	1.407	ug/l #	39
32) 1,1,1-Trichloroethane	7.56	97	3447	0.558	ug/l #	43
36) 1,1-Dichloropropene	7.79	75	3173	0.532	ug/l	99
37) Ethyl Acetate	6.94	43	1602m	0.330	ug/l	
38) Carbon Tetrachloride	7.77	117	3196	0.563	ug/l	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	3836	0.593	ug/l	94
40) Benzene	8.04	78	10862	0.604	ug/l	95
41) Methacrylonitrile	7.18	41	1553	0.576	ug/l #	42
42) 1,2-Dichloroethane	8.12	62	4604	0.737	ug/l	88
43) Isopropyl Acetate	8.17	43	4712	0.630	ug/l #	68
44) Trichloroethene	8.83	130	2497	0.554	ug/l	94
45) 1,2-Dichloropropane	9.12	63	2827	0.564	ug/l	93
46) Dibromomethane	9.21	93	1700	0.596	ug/l	88
47) Bromodichloromethane	9.40	83	3359	0.571	ug/l #	95
48) Methyl methacrylate	9.20	41	3215	0.867	ug/l #	79
49) 1,4-Dioxane	9.20	88	102	2.935	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	12038	2.784	ug/l	99
52) Toluene	10.16	92	6822	0.662	ug/l	92
53) t-1,3-Dichloropropene	10.39	75	2406	0.468	ug/l #	79
54) cis-1,3-Dichloropropene	9.84	75	3208	0.503	ug/l #	89
55) 1,1,2-Trichloroethane	10.56	97	2450	0.617	ug/l	91
56) Ethyl methacrylate	10.43	69	2774	0.583	ug/l #	75
57) 1,3-Dichloropropane	10.71	76	4159	0.616	ug/l	97
58) 2-Chloroethyl Vinyl ether	9.70	63	3953	2.250	ug/l #	88
59) 2-Hexanone	10.75	43	8246	3.036	ug/l	90
60) Dibromochloromethane	10.89	129	2092m	0.540	ug/l	
61) 1,2-Dibromoethane	11.00	107	1996	0.547	ug/l	94
64) Tetrachloroethene	10.63	164	2702	0.612	ug/l	87
65) Chlorobenzene	11.43	112	6471	0.592	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.51	131	1945	0.484	ug/l #	53
67) Ethyl Benzene	11.51	91	11427	0.585	ug/l	93
68) m/p-Xylenes	11.62	106	7774	1.100	ug/l	98
69) o-Xylene	11.94	106	4049	0.592	ug/l	97
70) Styrene	11.97	104	6292	0.568	ug/l	96
71) Bromoform	12.13	173	1255	0.545	ug/l #	81
73) Isopropylbenzene	12.25	105	9927	0.653	ug/l	98
74) N-amyl acetate	12.07	43	2014	0.471	ug/l #	83
75) 1,1,2,2-Tetrachloroethane	12.51	83	2847	0.700	ug/l #	84
76) 1,2,3-Trichloropropane	12.55	75	1955m	0.635	ug/l	
77) Bromobenzene	12.53	156	2859	0.754	ug/l	88
78) n-propylbenzene	12.59	91	10362	0.631	ug/l	95
79) 2-Chlorotoluene	12.68	91	7071	0.690	ug/l	97
80) 1,3,5-Trimethylbenzene	12.73	105	7467	0.609	ug/l	91
81) trans-1,4-Dichloro-2-buten	12.30	75	440m	0.571	ug/l	
82) 4-Chlorotoluene	12.78	91	7393	0.773	ug/l	81
83) tert-Butylbenzene	12.99	119	7485	0.722	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	7112	0.612	ug/l	97
85) sec-Butylbenzene	13.17	105	8590	0.651	ug/l	96
86) p-Isopropyltoluene	13.29	119	6944	0.613	ug/l	98
87) 1,3-Dichlorobenzene	13.28	146	3561	0.618	ug/l	94
88) 1,4-Dichlorobenzene	13.36	146	3775m	0.687	ug/l	
89) n-Butylbenzene	13.61	91	4660	0.554	ug/l	96
90) Hexachloroethane	13.87	117	1029	0.558	ug/l #	42
91) 1,2-Dichlorobenzene	13.65	146	3482	0.601	ug/l	86
92) 1,2-Dibromo-3-Chloropropan	14.26	75	216	0.431	ug/l	63

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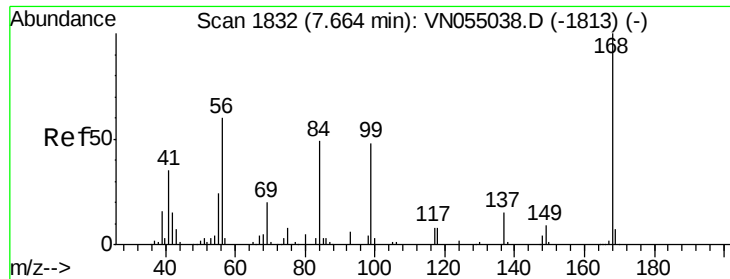
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	1659	0.752	ug/l #	74
94) Hexachlorobutadiene	15.01	225	1478	0.826	ug/l	92
95) Naphthalene	15.13	128	3056	0.623	ug/l #	92
96) 1,2,3-Trichlorobenzene	15.32	180	1703	0.762	ug/l #	89

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN055049.D

Acq: 15 Apr 2019 18:15

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion:168 Resp: 377333

Ion Ratio Lower Upper

168 100

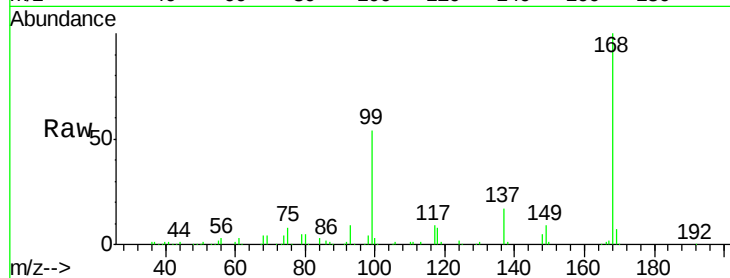
99 53.6 41.9 62.9

Manual Integrations

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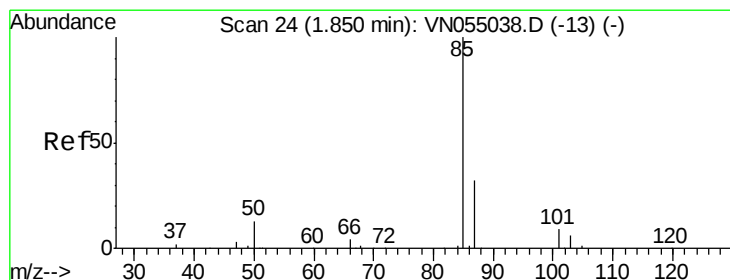
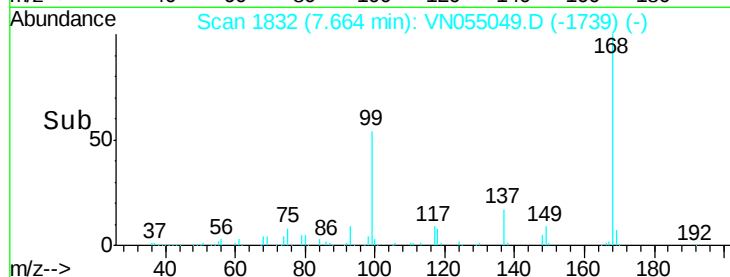
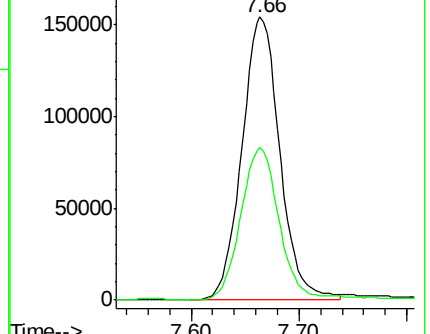
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 0.645 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN055049.D

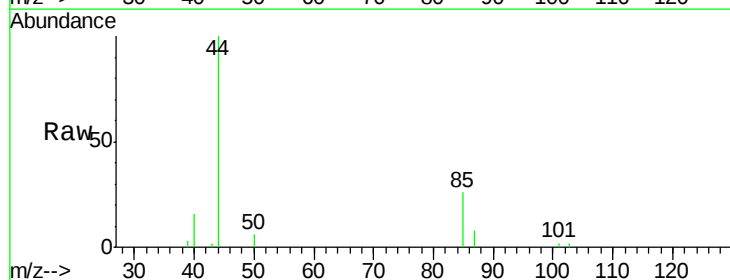
Acq: 15 Apr 2019 18:15

Tgt Ion: 85 Resp: 2767

Ion Ratio Lower Upper

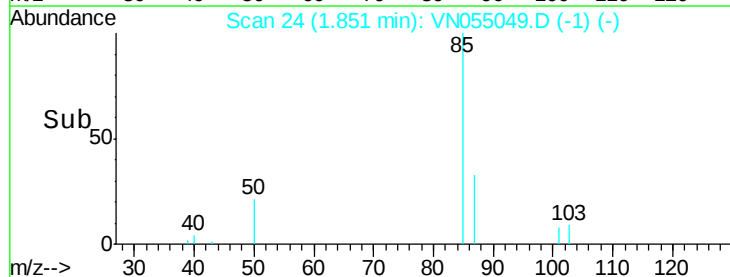
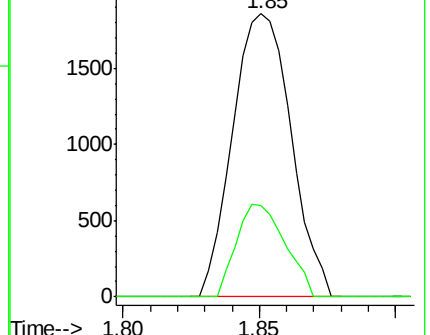
85 100

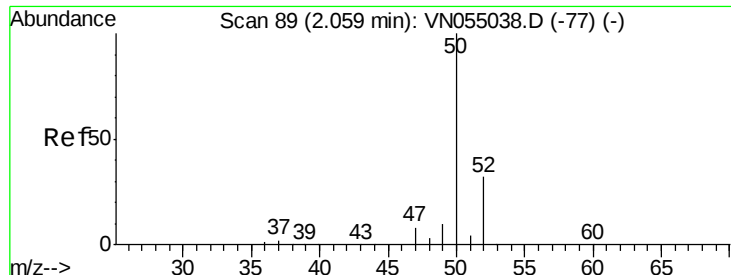
87 32.5 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#3

Chloromethane

Concen: 0.673 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN055049.D

Acq: 15 Apr 2019 18:15

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion: 50 Resp: 3764

Ion Ratio Lower Upper

50 100

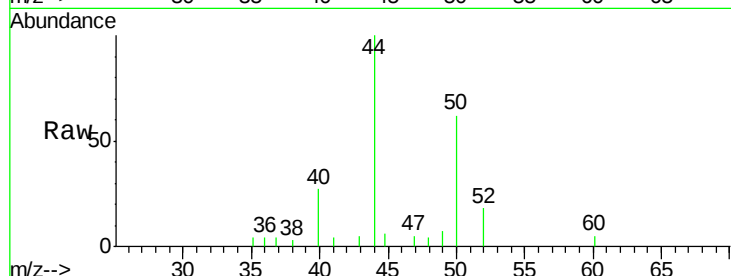
52 29.4 26.6 40.0

Manual Integrations

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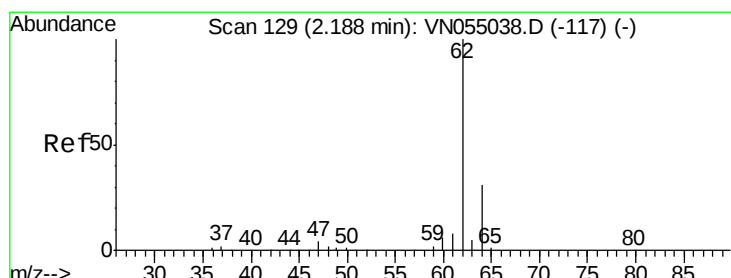
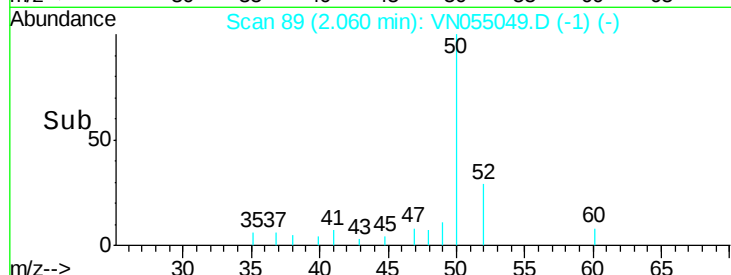
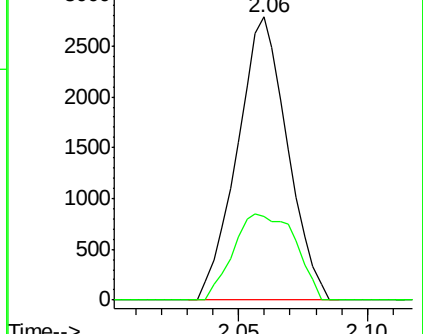
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Abundance Ion 49.90 (49.60 to 50.60): VNC

Ion 51.90 (51.60 to 52.60): VNC



#4

Vinyl Chloride

Concen: 0.567 ug/l

RT: 2.19 min Scan# 128

Delta R.T. -0.00 min

Lab File: VN055049.D

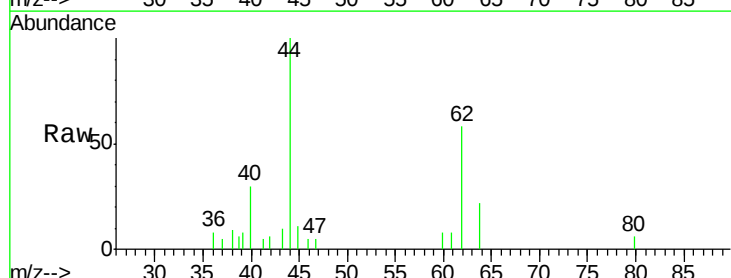
Acq: 15 Apr 2019 18:15

Tgt Ion: 62 Resp: 2666

Ion Ratio Lower Upper

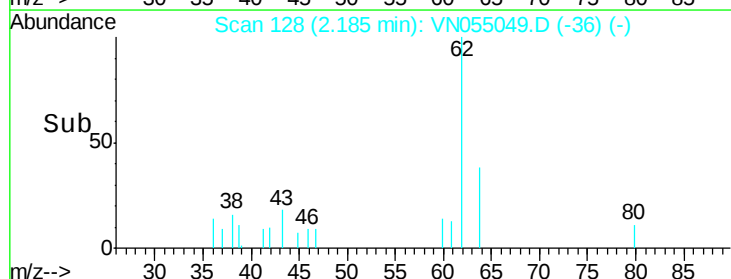
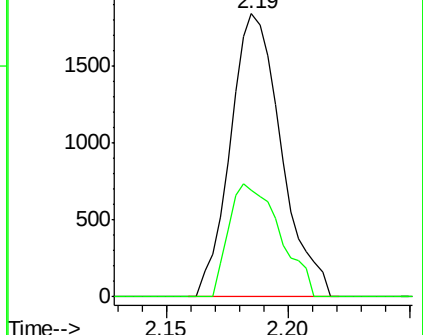
62 100

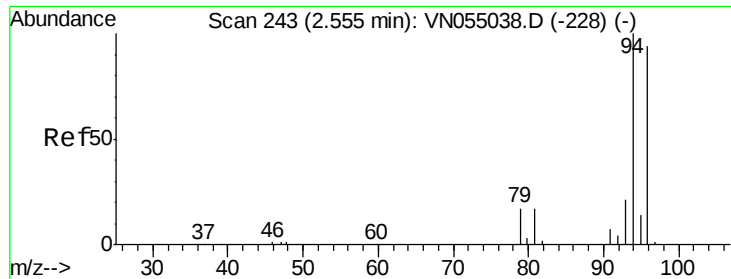
64 37.8 25.8 38.6



Abundance Ion 61.90 (61.60 to 62.60): VNC

Ion 63.90 (63.60 to 64.60): VNC





#5

Bromomethane

Concen: 0.916 ug/l

RT: 2.55 min Scan# 240

Delta R.T. -0.01 min

Lab File: VN055049.D

Acq: 15 Apr 2019 18:15

Instrument :

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ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion: 94 Resp: 2437

Ion Ratio Lower Upper

94 100

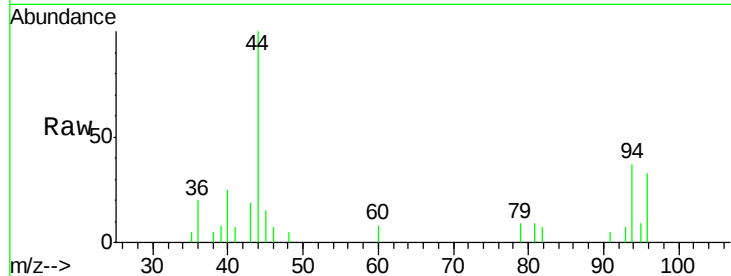
96 88.2 76.2 114.4

Manual Integrations

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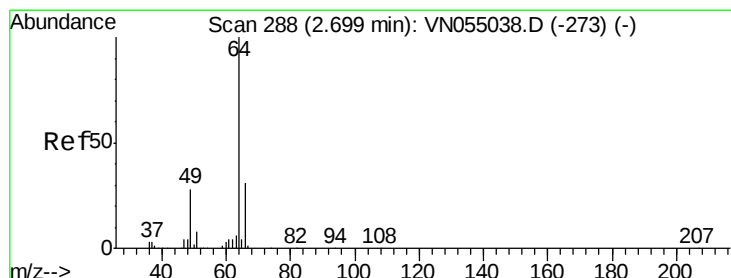
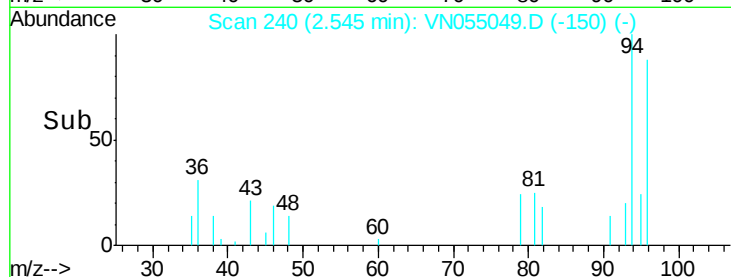
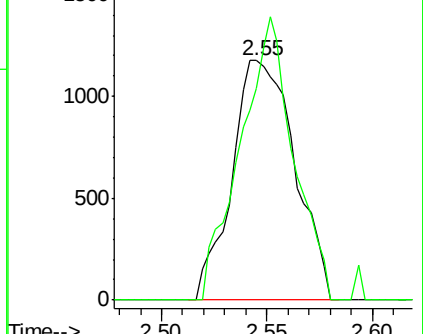
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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 0.820 ug/l

RT: 2.69 min Scan# 286

Delta R.T. -0.01 min

Lab File: VN055049.D

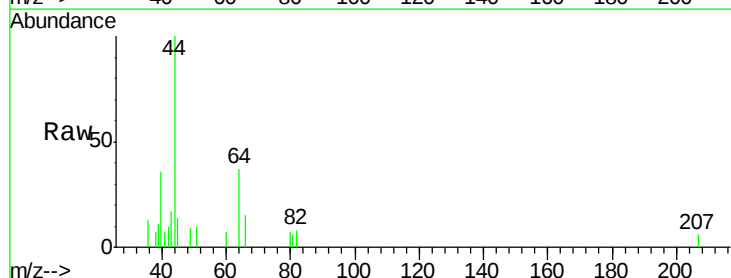
Acq: 15 Apr 2019 18:15

Tgt Ion: 64 Resp: 2078

Ion Ratio Lower Upper

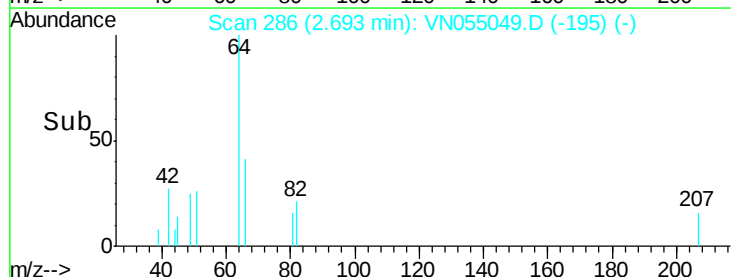
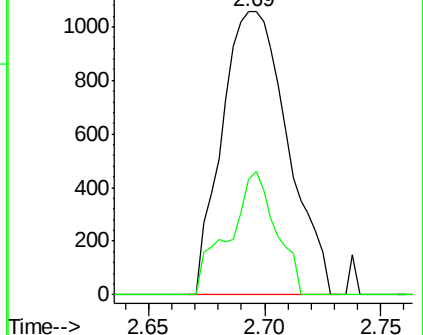
64 100

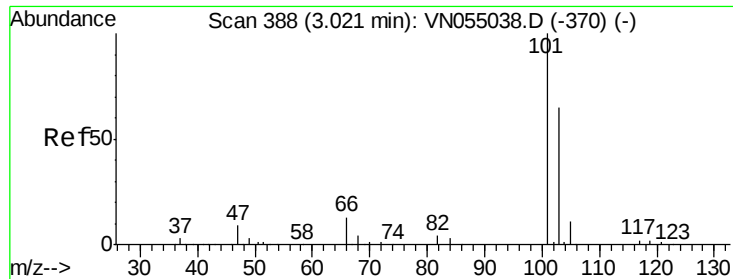
66 40.9 26.6 40.0#



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

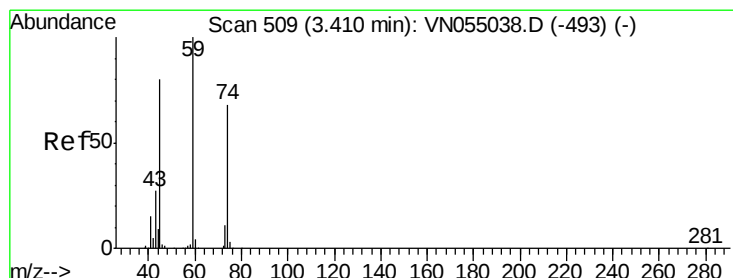
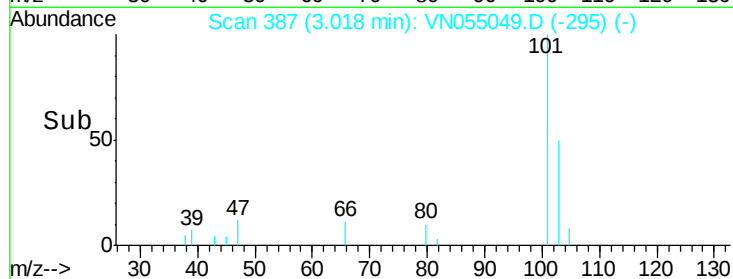
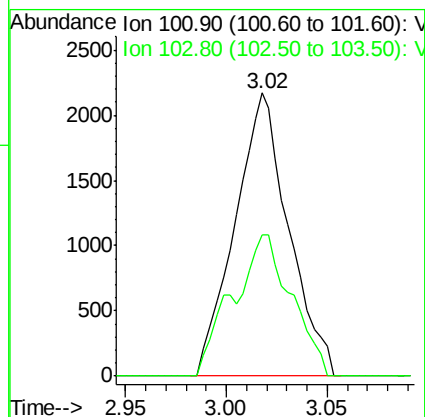
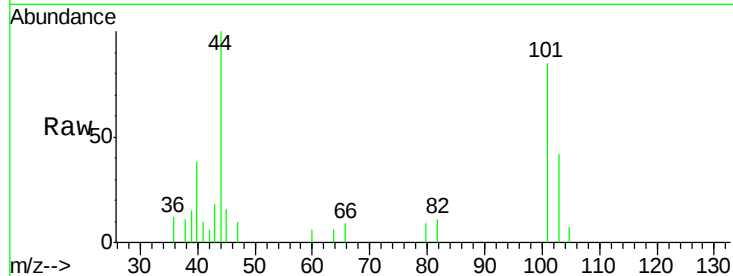
Trichlorofluoromethane
Concen: 0.685 ug/l
RT: 3.02 min Scan# 387
Delta R.T. -0.00 min
Lab File: VN055049.D
Acq: 15 Apr 2019 18:15

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Tot Ion:101 Resp: 4026
Ion Ratio Lower Upper
101 100
103 50.1 52.5 78.7#

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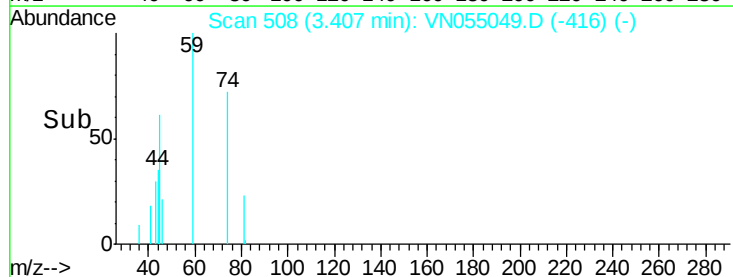
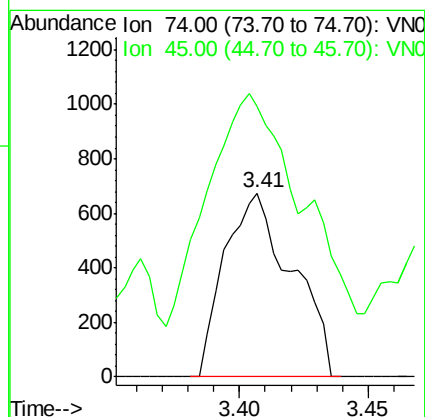
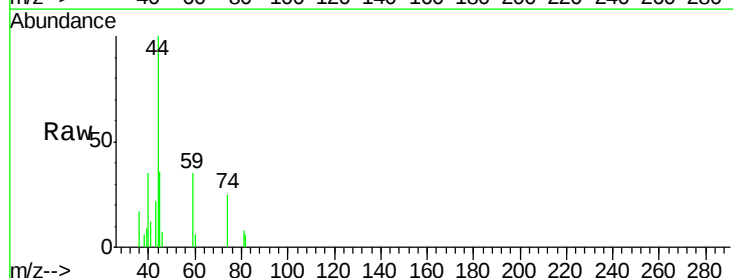
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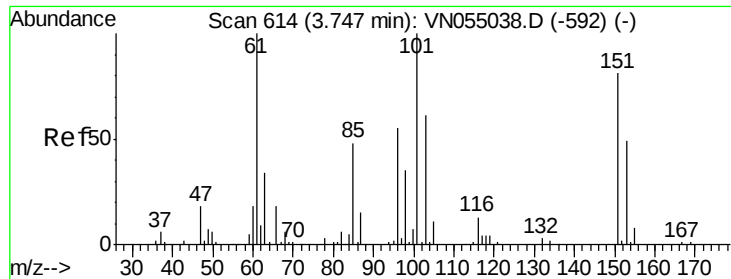


#8

Diethyl Ether
Concen: 0.653 ug/l
RT: 3.41 min Scan# 508
Delta R.T. -0.00 min
Lab File: VN055049.D
Acq: 15 Apr 2019 18:15

Tgt Ion: 74 Resp: 1226
Ion Ratio Lower Upper
74 100
45 171.9 55.7 167.1#





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.671 ug/l

RT: 3.75 min Scan# 614

Delta R.T. 0.00 min

Lab File: VN055049.D

Acq: 15 Apr 2019 18:15

Instrument :

MSVOA_N

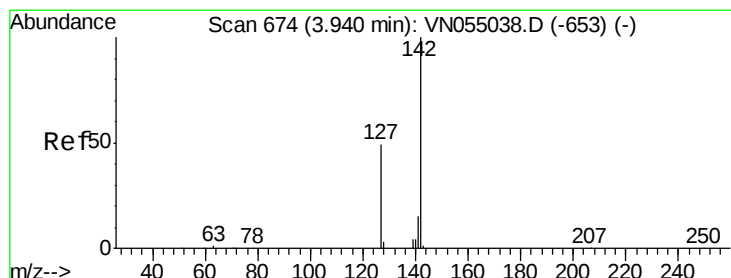
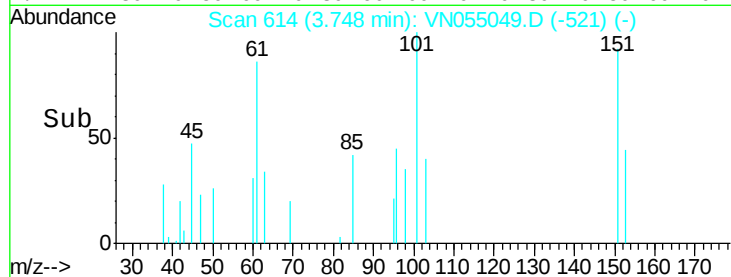
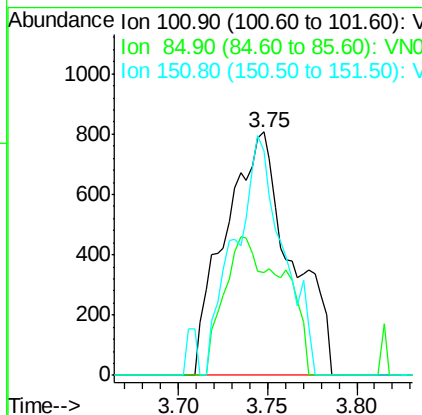
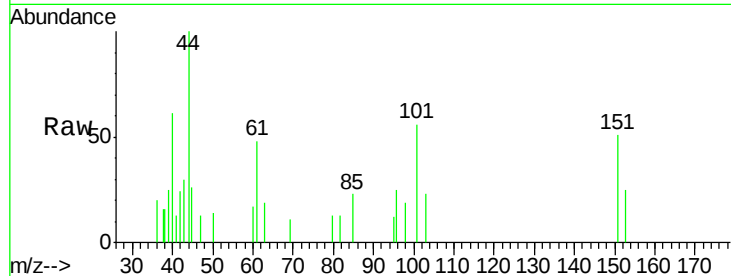
ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion:	101	Resp:	2064
Ion Ratio	Lower	Upper	
101	100		
85	50.9	36.9	55.3
151	72.8	64.4	96.6

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#10

Methyl Iodide

Concen: 2.842 ug/l

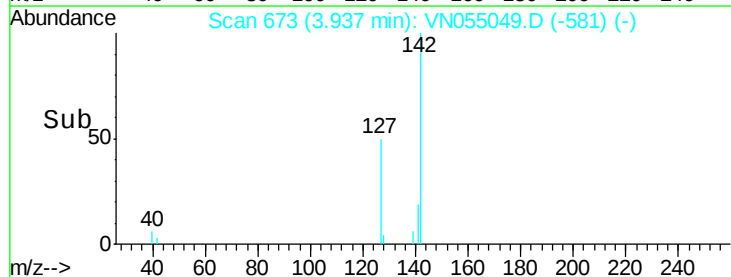
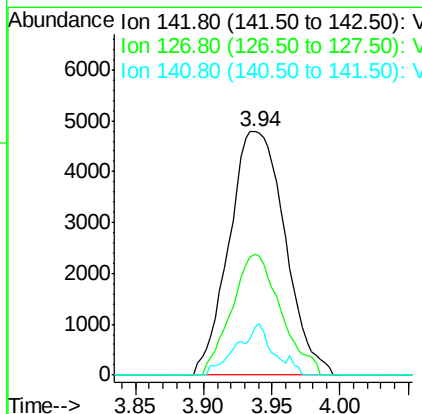
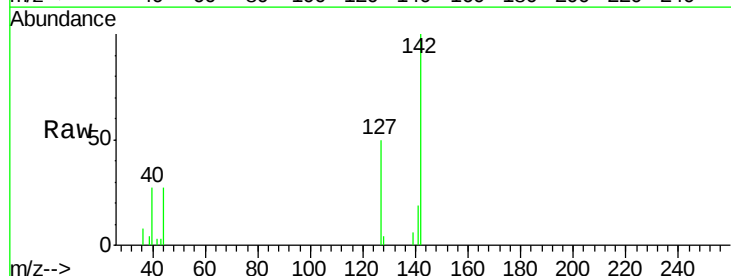
RT: 3.94 min Scan# 673

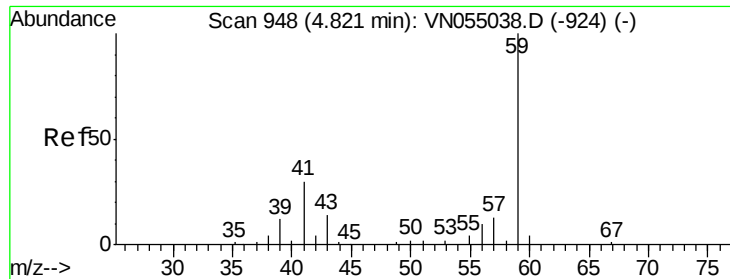
Delta R.T. -0.00 min

Lab File: VN055049.D

Acq: 15 Apr 2019 18:15

Tgt Ion:	142	Resp:	13569
Ion Ratio	Lower	Upper	
142	100		
127	43.8	37.9	56.9
141	13.9	11.8	17.8





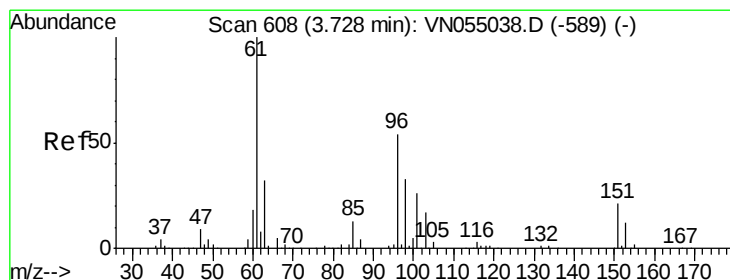
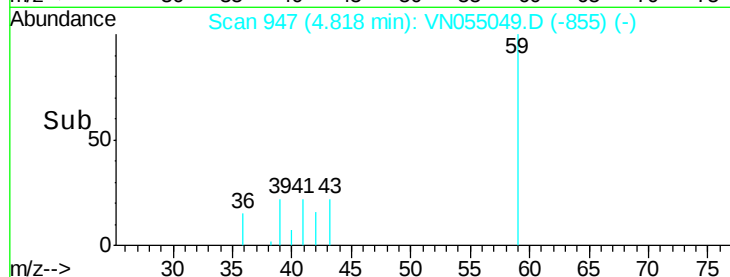
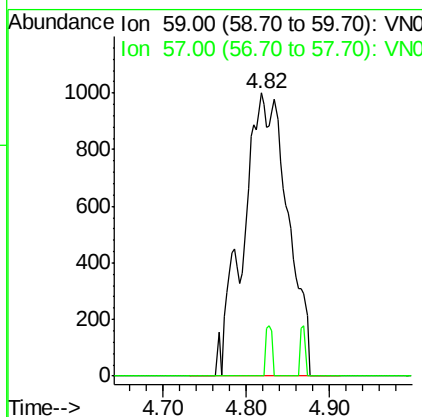
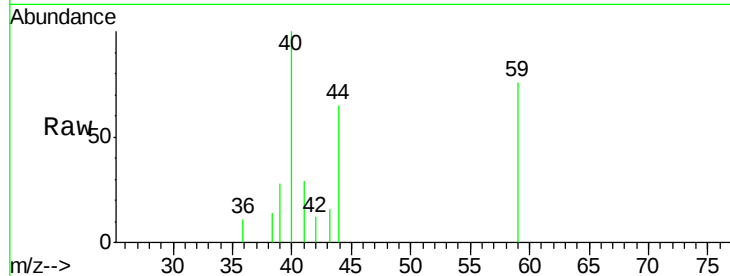
#11
Tert butyl alcohol
Concen: 13.491 ug/l m
RT: 4.82 min Scan# 947
Delta R.T. -0.00 min
Lab File: VN055049.D
Acq: 15 Apr 2019 18:15

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT2-2019

Tot Ion: 59 Resp: 3709
Ion Ratio Lower Upper
59 100
57 2.6 8.3 12.5#

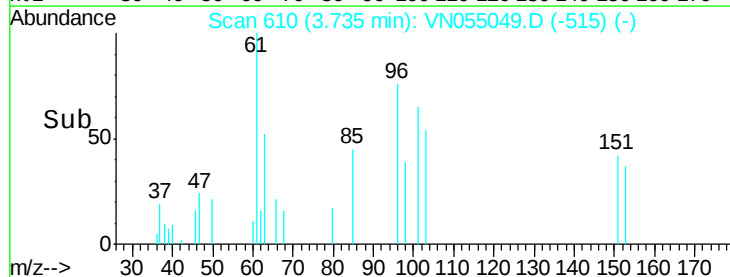
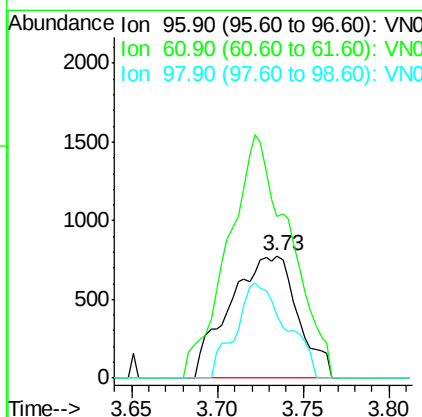
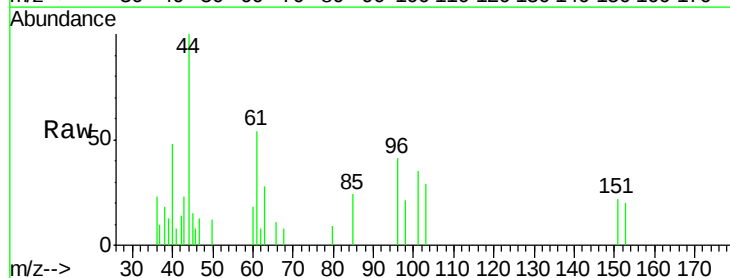
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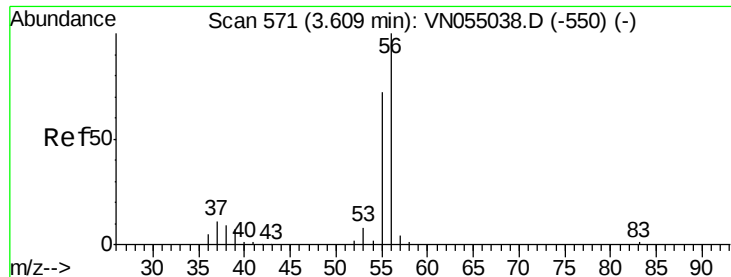
MMDadoda
4/17/2019 2:06:00 PM



#12
1,1-Dichloroethene
Concen: 0.714 ug/l
RT: 3.73 min Scan# 610
Delta R.T. 0.01 min
Lab File: VN055049.D
Acq: 15 Apr 2019 18:15

Tgt Ion: 96 Resp: 2137
Ion Ratio Lower Upper
96 100
61 132.3 154.2 231.4#
98 51.5 52.9 79.3#





#13

Acrolein

Concen: 16.738 ug/l

RT: 3.60 min Scan# 567

Delta R.T. -0.01 min

Lab File: VN055049.D

Acq: 15 Apr 2019 18:15

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion: 56 Resp: 5688

Ion Ratio Lower Upper

56 100

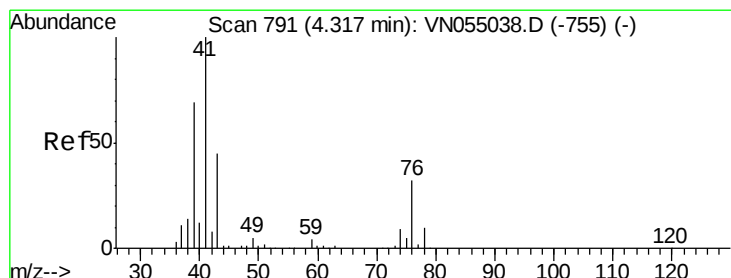
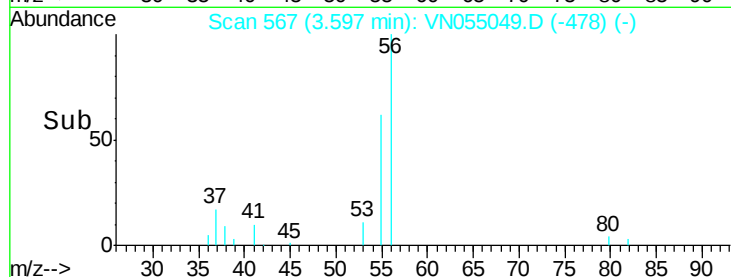
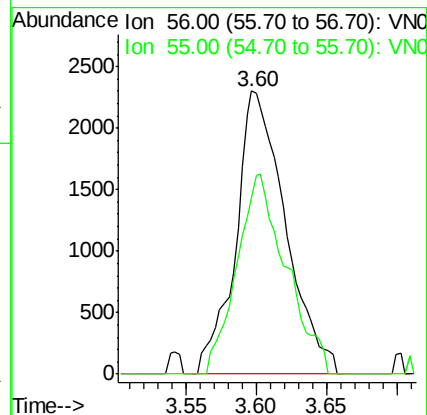
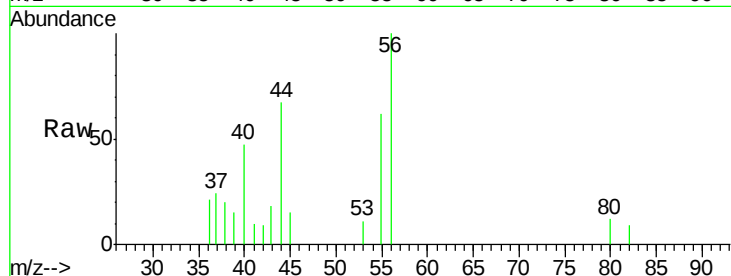
55 69.7 59.5 89.3

Manual Integrations

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MMDadoda

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#14

Allyl chloride

Concen: 0.562 ug/l m

RT: 4.31 min Scan# 788

Delta R.T. -0.01 min

Lab File: VN055049.D

Acq: 15 Apr 2019 18:15

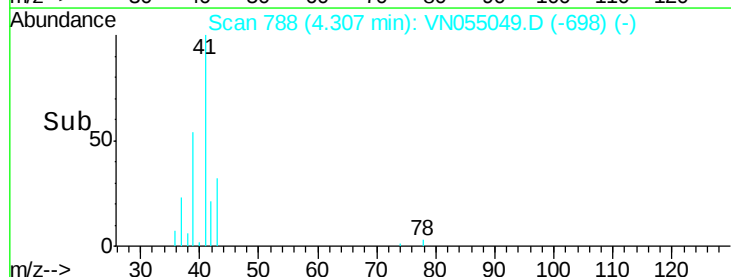
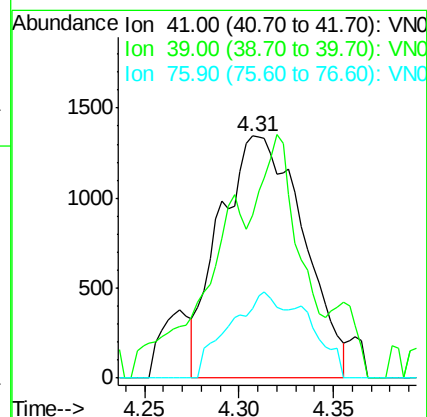
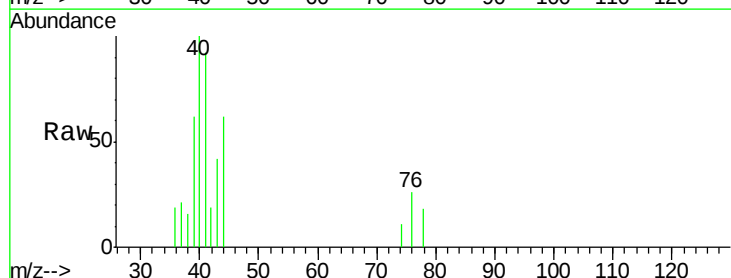
Tgt Ion: 41 Resp: 4120

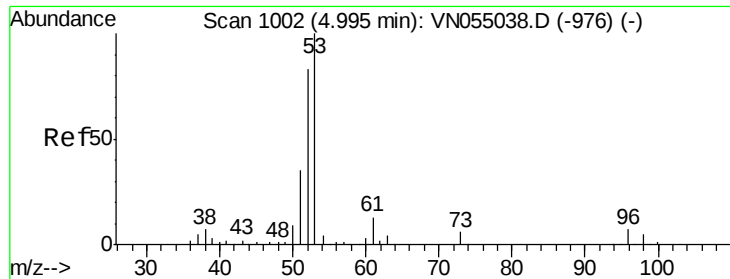
Ion Ratio Lower Upper

41 100

39 30.4 52.7 79.1#

76 23.6 23.2 34.8





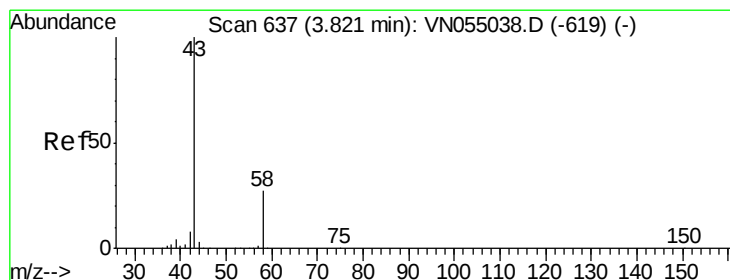
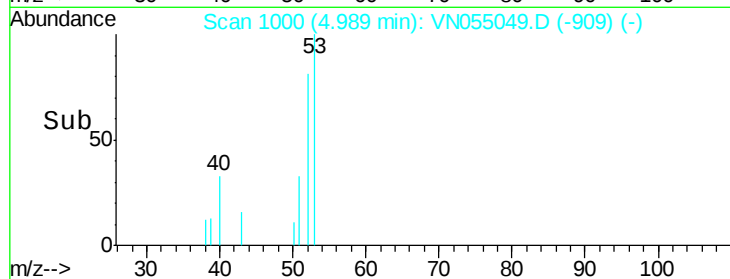
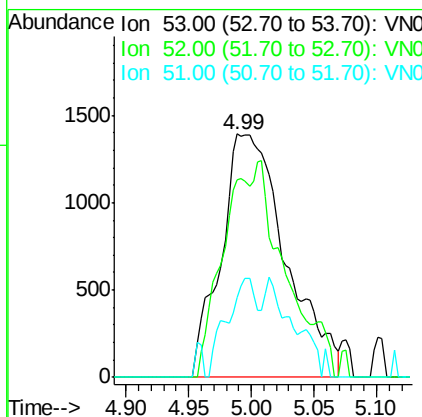
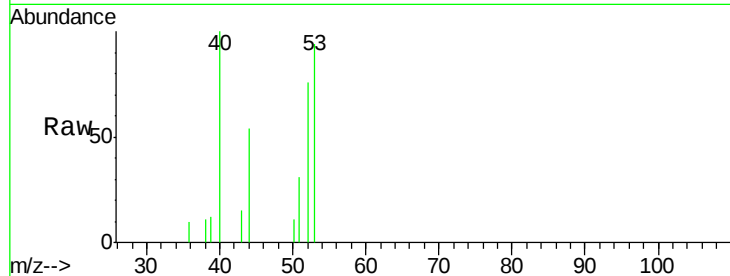
#15
 Acrylonitrile
 Concen: 3.046 ug/l
 RT: 4.99 min Scan# 1000
 Delta R.T. -0.01 min
 Lab File: VN055049.D
 Acq: 15 Apr 2019 18:15

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
53	100		
52	37.8	65.9	98.9#
51	18.1	29.7	44.5#

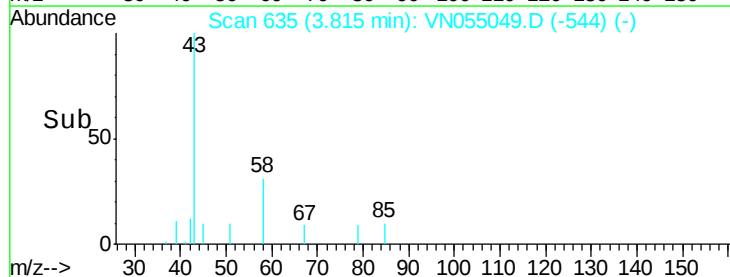
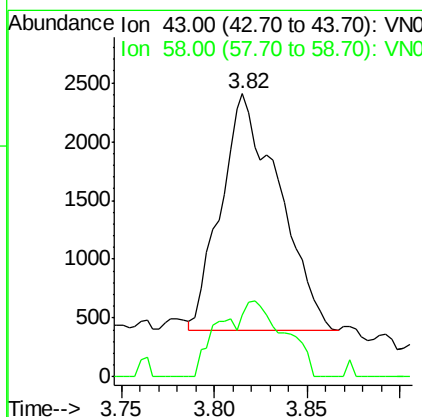
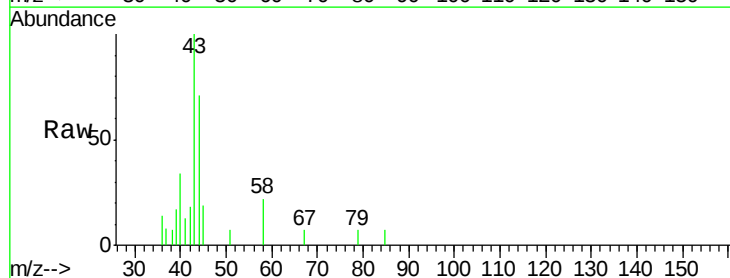
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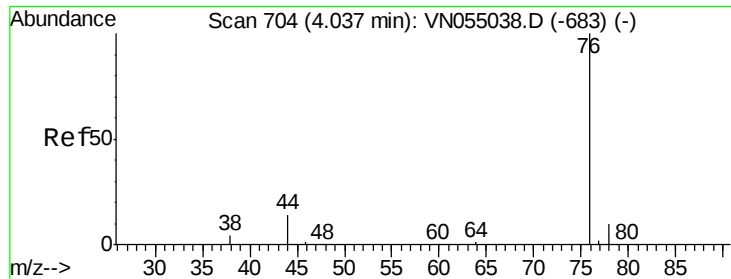
MMDadoda
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#16
 Acetone
 Concen: 3.201 ug/l
 RT: 3.82 min Scan# 635
 Delta R.T. -0.01 min
 Lab File: VN055049.D
 Acq: 15 Apr 2019 18:15

Tgt Ion	Ratio	Lower	Upper
43	100		
58	26.4	20.9	31.3





#17

Carbon Disulfide

Concen: 0.609 ug/l

RT: 4.04 min Scan# 704

Delta R.T. 0.00 min

Lab File: VN055049.D

Acq: 15 Apr 2019 18:15

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion: 76 Resp: 5890

Ion Ratio Lower Upper

76 100

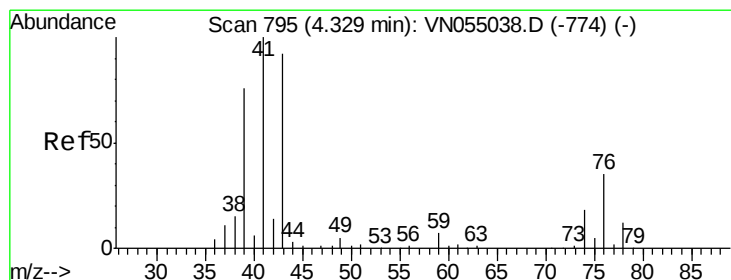
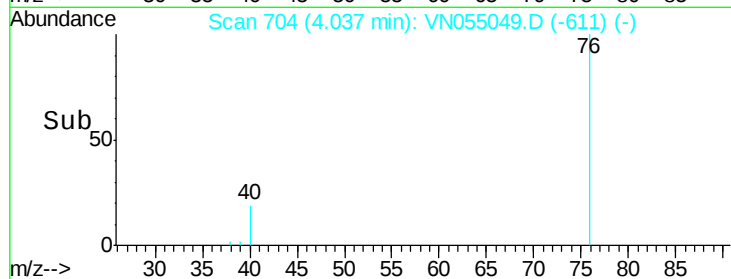
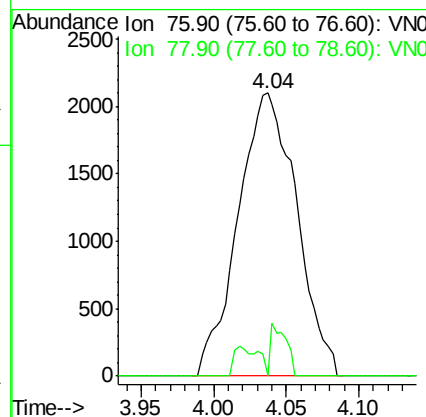
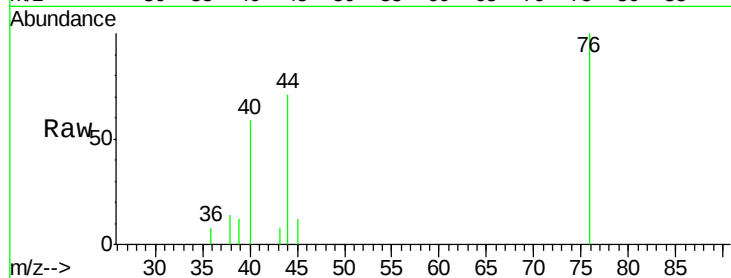
78 0.0 7.2 10.8#

Manual Integrations

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#18

Methyl Acetate

Concen: 1.162 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN055049.D

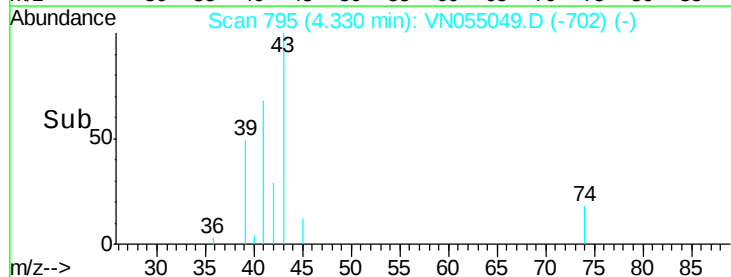
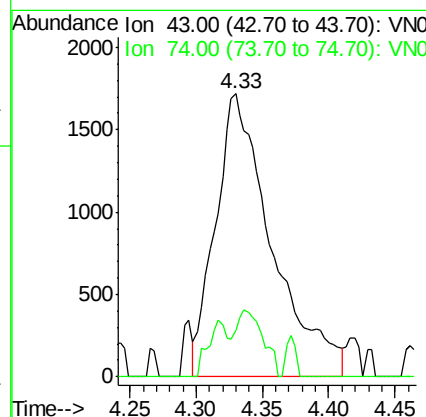
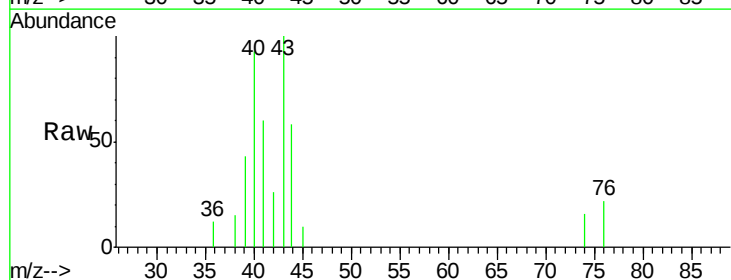
Acq: 15 Apr 2019 18:15

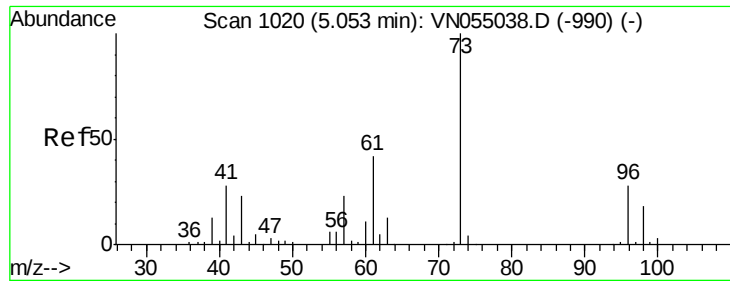
Tgt Ion: 43 Resp: 5074

Ion Ratio Lower Upper

43 100

74 11.1 16.1 24.1#





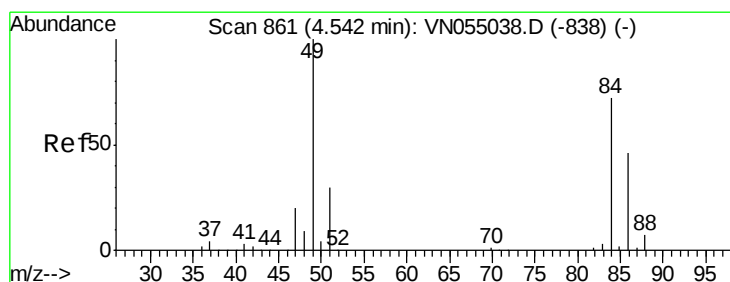
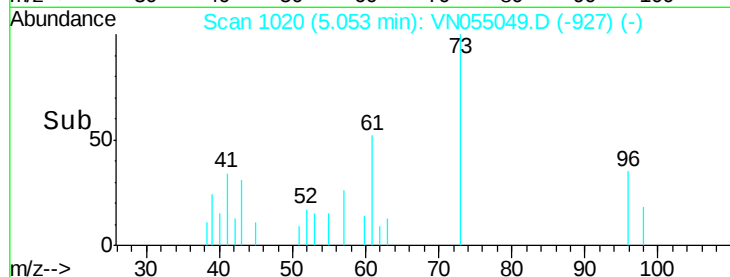
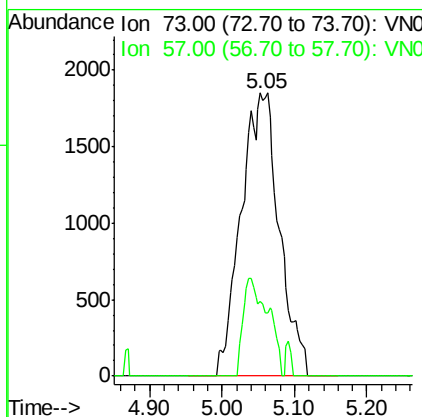
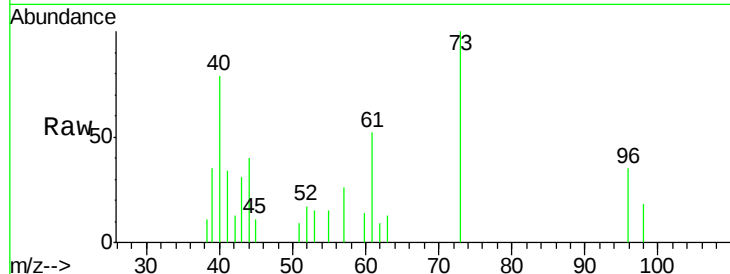
#19
Methyl tert-butyl Ether
Concen: 0.631 ug/l m
RT: 5.05 min Scan# 1020
Delta R.T. 0.00 min
Lab File: VN055049.D
Acq: 15 Apr 2019 18:15

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT2-2019

Tot Ion: 73 Resp: 6761
Ion Ratio Lower Upper
73 100
57 26.2 19.0 28.4

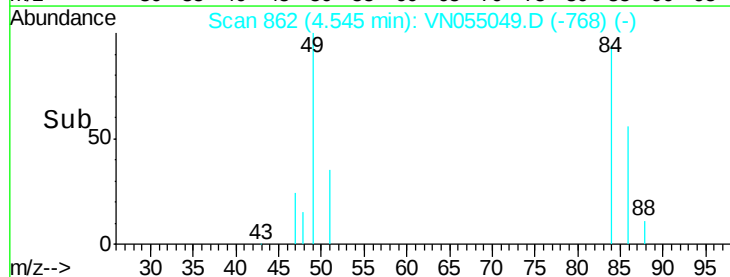
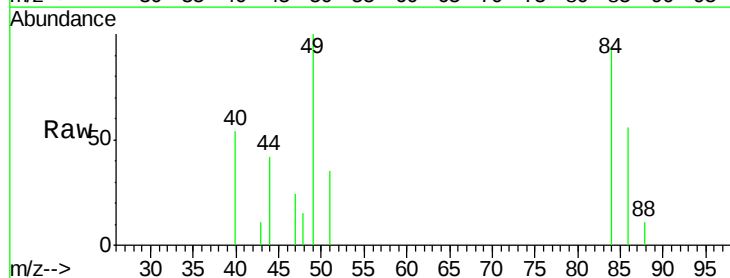
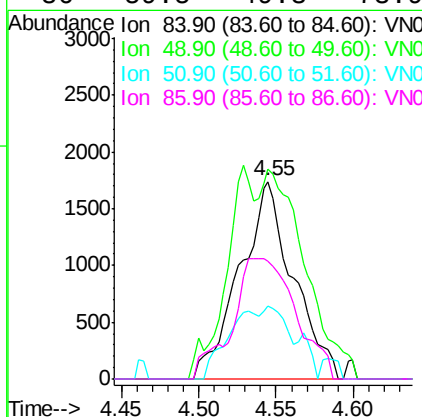
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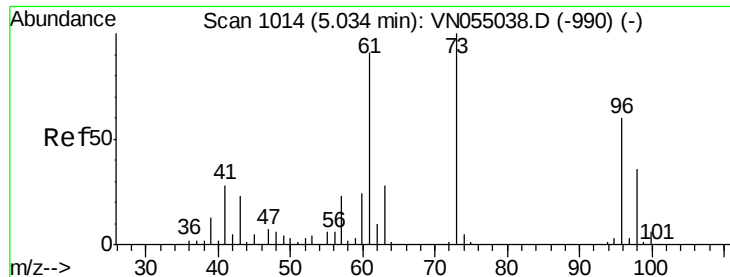
MMDadoda
4/17/2019 2:06:00 PM



#20
Methylene Chloride
Concen: 0.874 ug/l
RT: 4.55 min Scan# 862
Delta R.T. 0.00 min
Lab File: VN055049.D
Acq: 15 Apr 2019 18:15

Tgt Ion: 84 Resp: 4181
Ion Ratio Lower Upper
84 100
49 105.9 109.4 164.2#
51 37.2 32.2 48.4
86 59.5 49.3 73.9





#21

trans-1,2-Dichloroethene

Concen: 0.574 ug/l

RT: 5.03 min Scan# 1013

Delta R.T. -0.00 min

Lab File: VN055049.D

Acq: 15 Apr 2019 18:15

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion: 96 Resp: 2324

Ion Ratio Lower Upper

96 100

61 97.0 114.9 172.3#

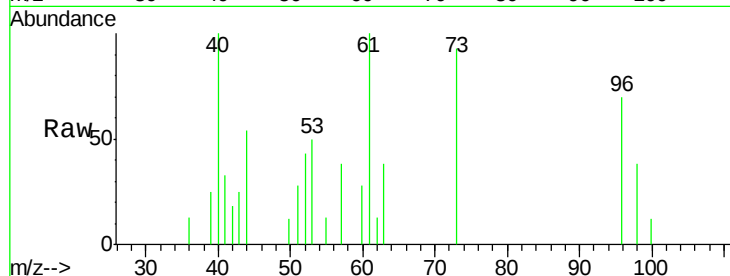
98 53.8 48.4 72.6

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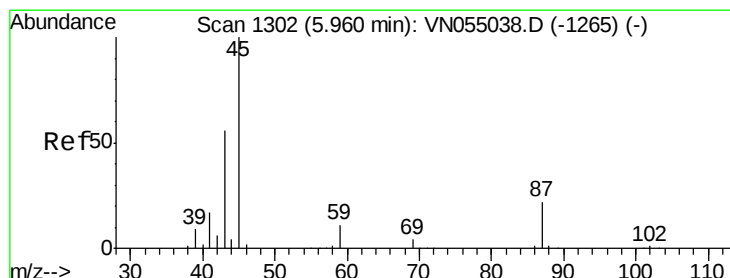
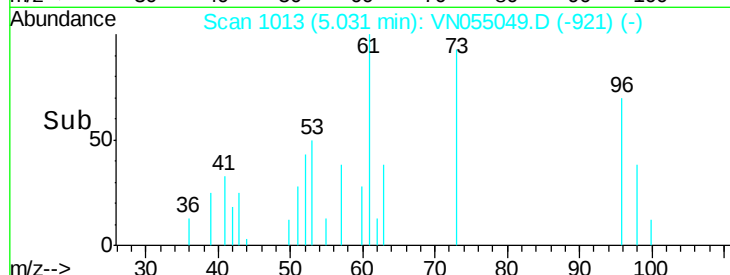
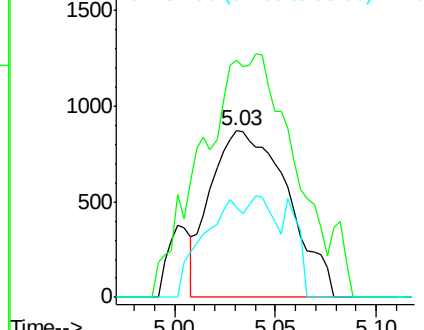
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Abundance Ion 95.90 (95.60 to 96.60): VNC

Ion 60.90 (60.60 to 61.60): VNC

Ion 97.90 (97.60 to 98.60): VNC



#22

Diisopropyl ether

Concen: 0.576 ug/l

RT: 5.97 min Scan# 1304

Delta R.T. 0.01 min

Lab File: VN055049.D

Acq: 15 Apr 2019 18:15

Tgt Ion: 45 Resp: 8685

Ion Ratio Lower Upper

45 100

43 38.4 44.8 67.2#

87 21.2 18.9 28.3

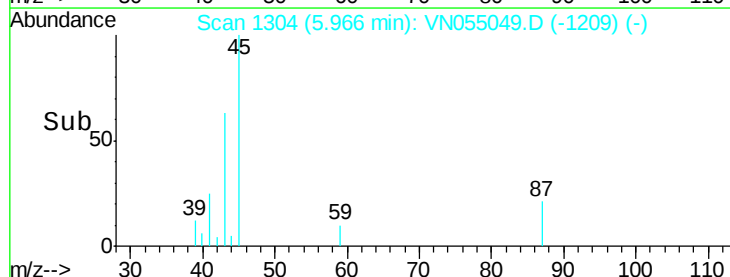
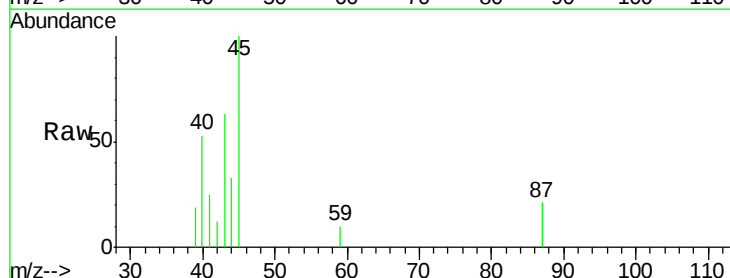
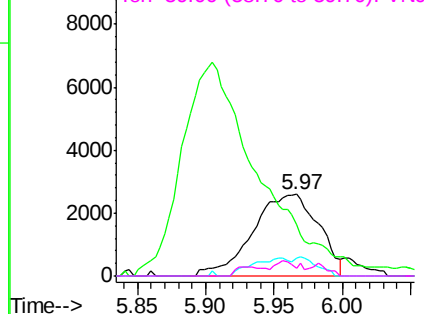
59 10.1 7.9 11.9

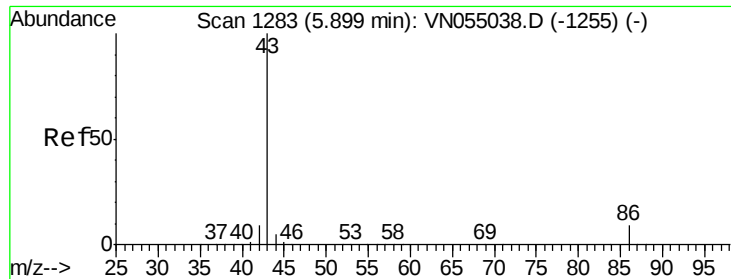
Abundance Ion 45.00 (44.70 to 45.70): VNC

Ion 43.00 (42.70 to 43.70): VNC

Ion 87.00 (86.70 to 87.70): VNC

Ion 59.00 (58.70 to 59.70): VNC





#23

Vinyl Acetate

Concen: 2.691 ug/l

RT: 5.91 min Scan# 1285

Delta R.T. 0.01 min

Lab File: VN055049.D

Acq: 15 Apr 2019 18:15

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion: 43 Resp: 26809

Ion Ratio Lower Upper

43 100

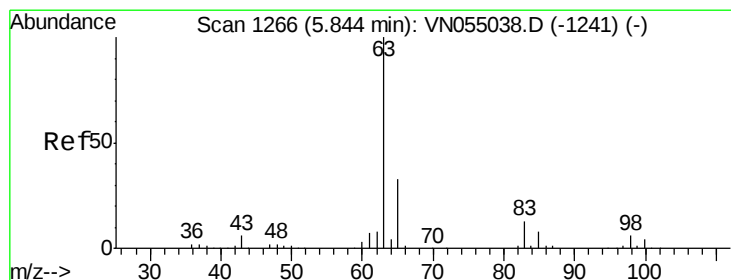
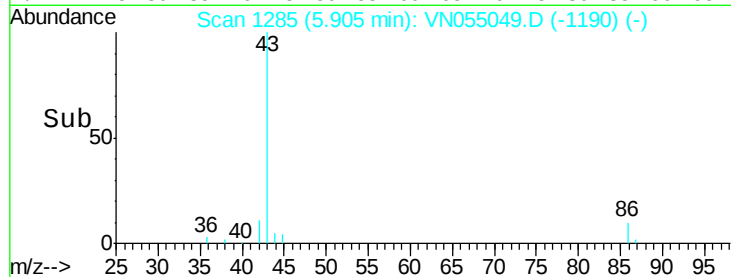
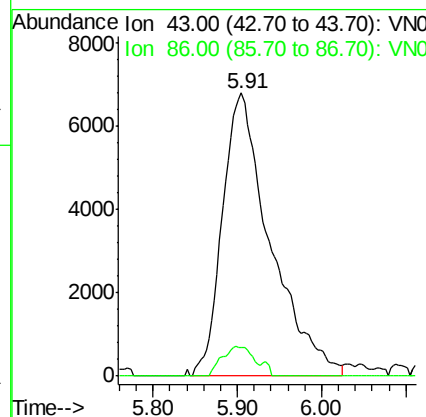
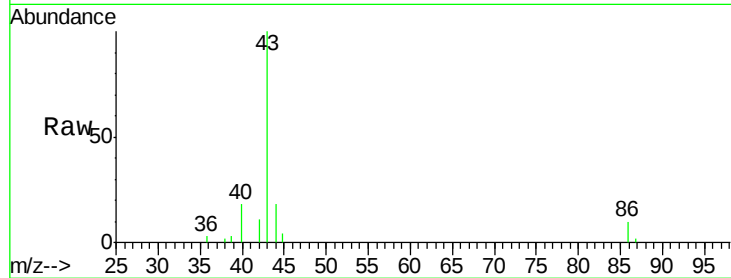
86 10.1 7.0 10.4

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#24

1,1-Dichloroethane

Concen: 0.623 ug/l

RT: 5.84 min Scan# 1264

Delta R.T. -0.01 min

Lab File: VN055049.D

Acq: 15 Apr 2019 18:15

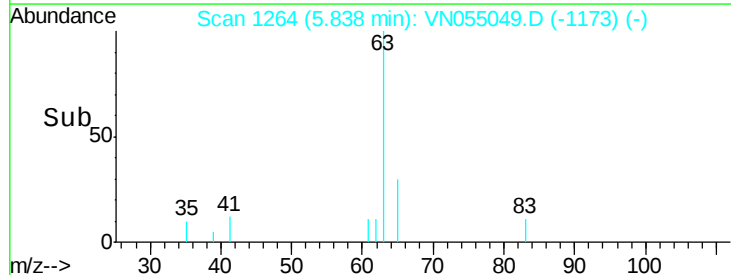
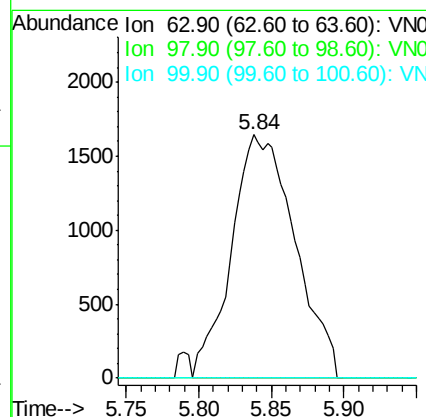
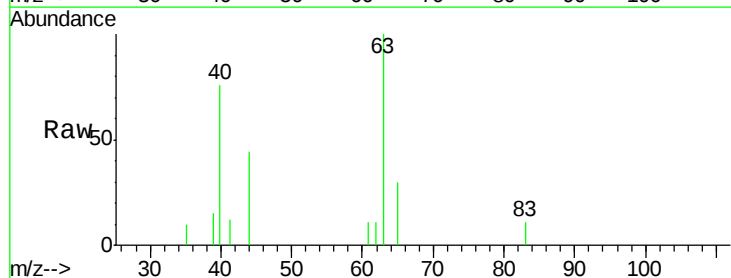
Tgt Ion: 63 Resp: 5003

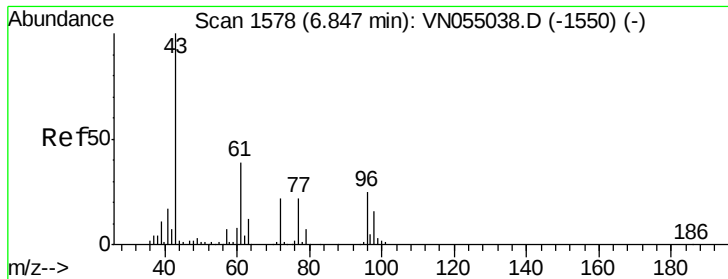
Ion Ratio Lower Upper

63 100

98 0.0 2.8 8.4#

100 0.0 2.0 5.8#





#25

2-Butanone

Concen: 3.148 ug/l m

RT: 6.85 min Scan# 1579

Delta R.T. 0.00 min

Lab File: VN055049.D

Acq: 15 Apr 2019 18:15

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion: 43 Resp: 6396

Ion Ratio Lower Upper

43 100

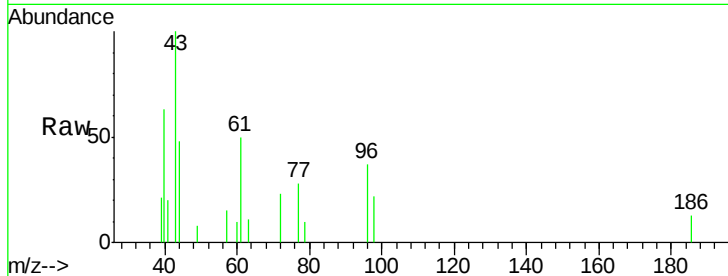
72 23.2 18.1 27.1

Manual Integrations

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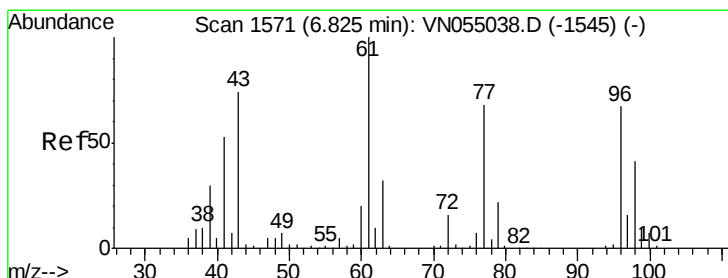
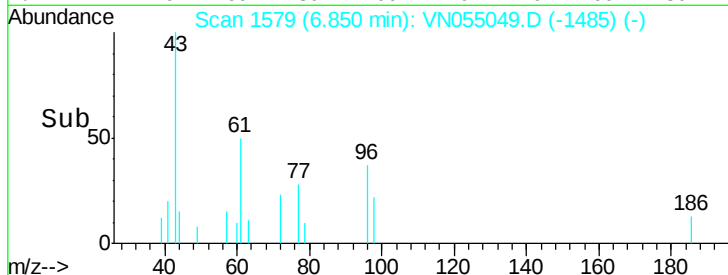
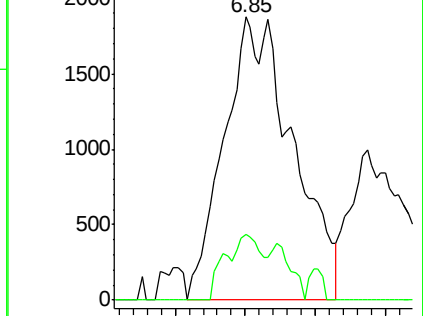
MMDadoda

4/17/2019 2:06:00 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#26

2,2-Dichloropropane

Concen: 0.601 ug/l

RT: 6.82 min Scan# 1570

Delta R.T. -0.00 min

Lab File: VN055049.D

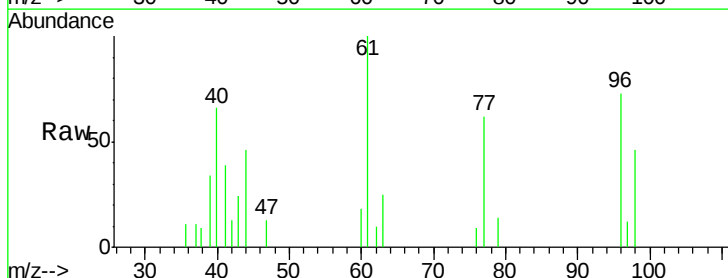
Acq: 15 Apr 2019 18:15

Tgt Ion: 77 Resp: 3044

Ion Ratio Lower Upper

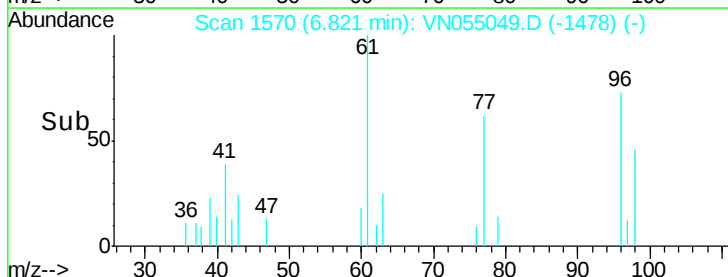
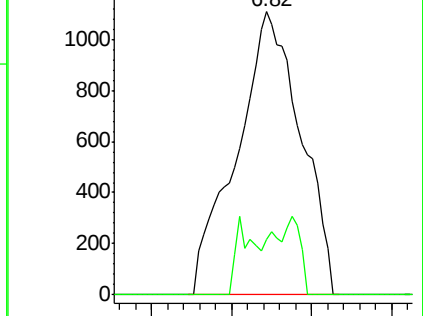
77 100

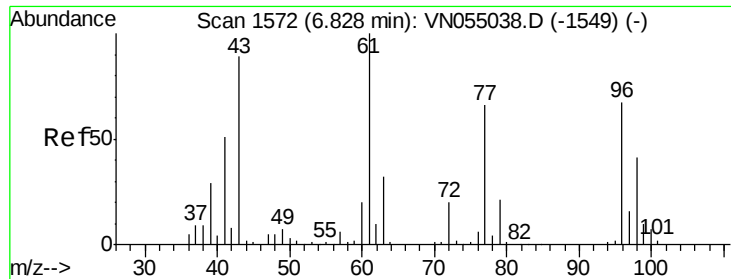
97 5.7 11.3 33.9#



Abundance Ion 76.90 (76.60 to 77.60): VN0

Ion 96.90 (96.60 to 97.60): VN0





#27

cis-1,2-Dichloroethene

Concen: 0.703 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. -0.00 min

Lab File: VN055049.D

Acq: 15 Apr 2019 18:15

Instrument :

MSVOA_N

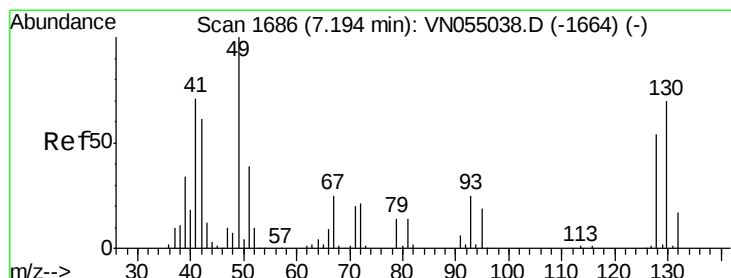
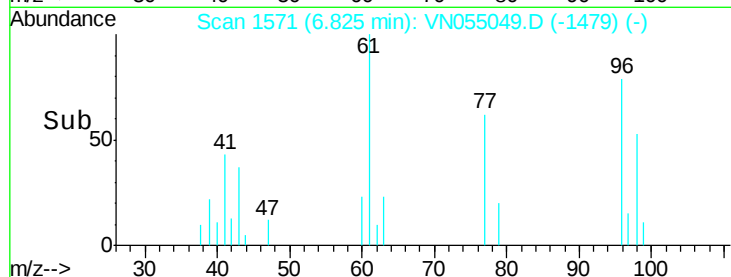
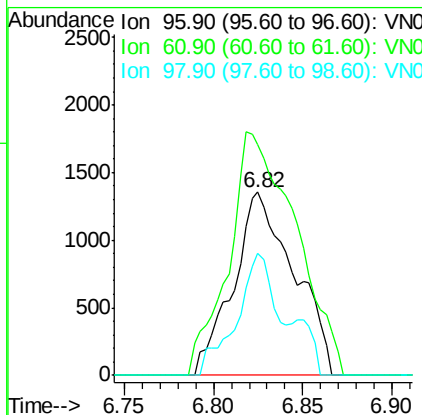
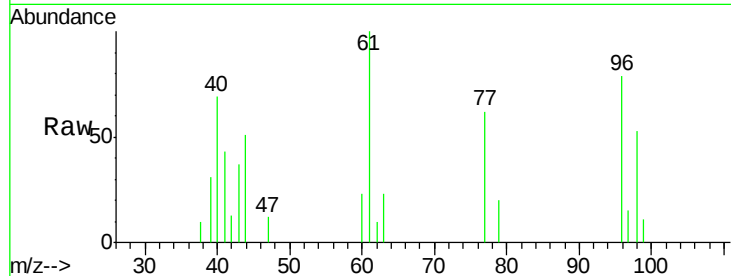
ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion:	96	Resp:	3222
Ion	Ratio	Lower	Upper
96	100		
61	146.1	0.0	311.0
98	42.5	0.0	127.4

Manual Integrations
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4/17/2019 2:06:00 PM



#28

Bromochloromethane

Concen: 0.635 ug/l

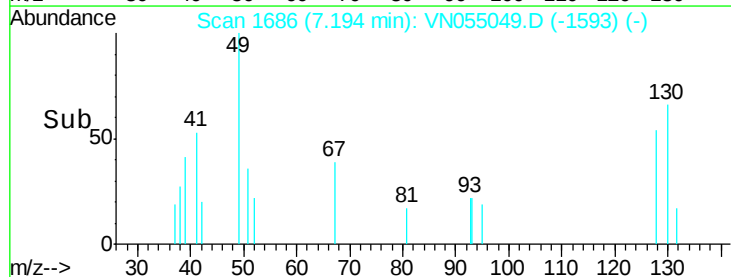
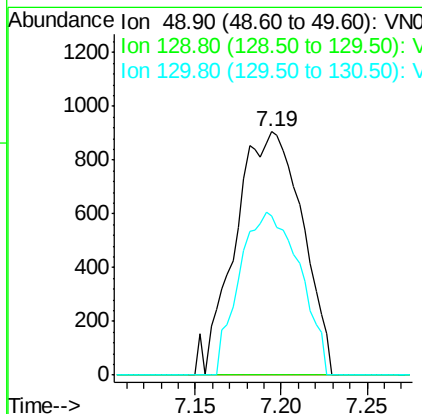
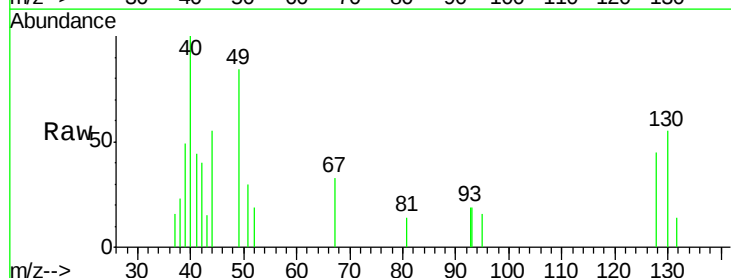
RT: 7.19 min Scan# 1686

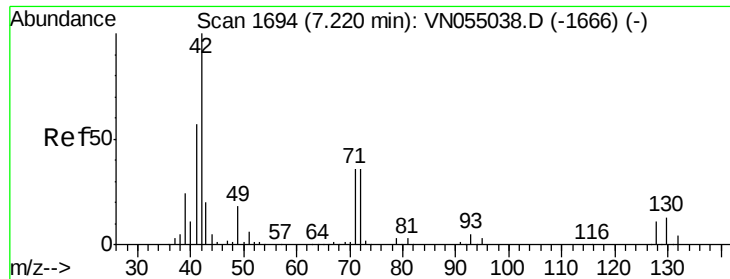
Delta R.T. 0.00 min

Lab File: VN055049.D

Acq: 15 Apr 2019 18:15

Tgt Ion:	49	Resp:	2457
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	2.0
130	60.2	53.4	80.2





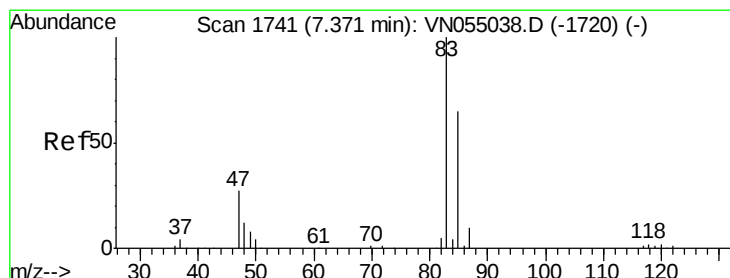
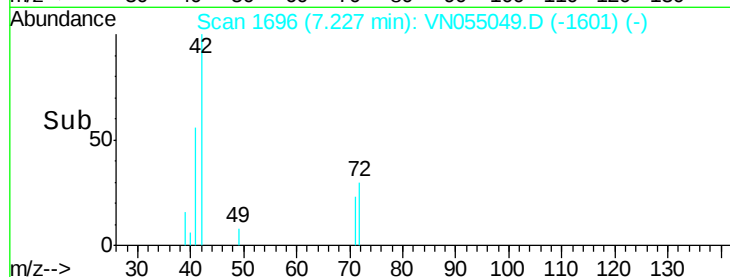
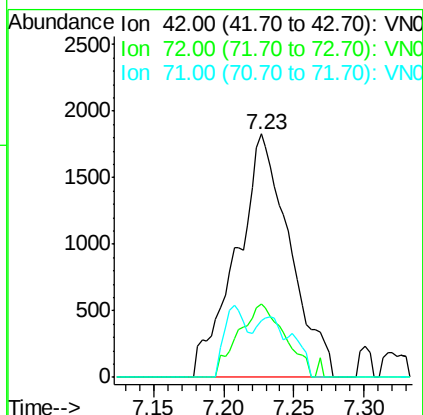
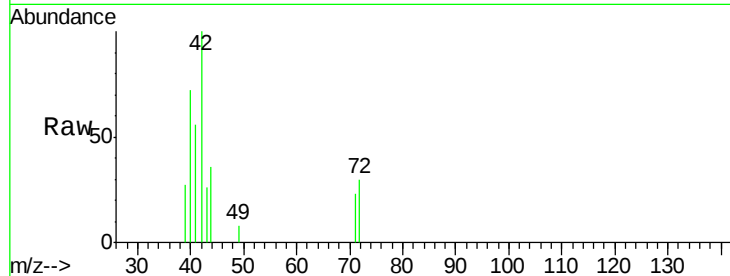
#29
Tetrahydrofuran
Concen: 3.615 ug/l
RT: 7.23 min Scan# 1696
Delta R.T. 0.01 min
Lab File: VN055049.D
Acq: 15 Apr 2019 18:15

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
42	100		
72	26.3	29.4	44.0#
71	16.5	27.8	41.6#

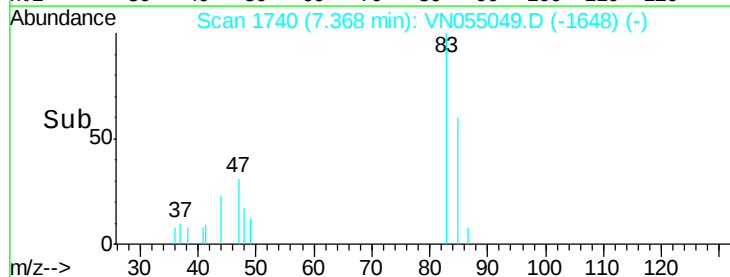
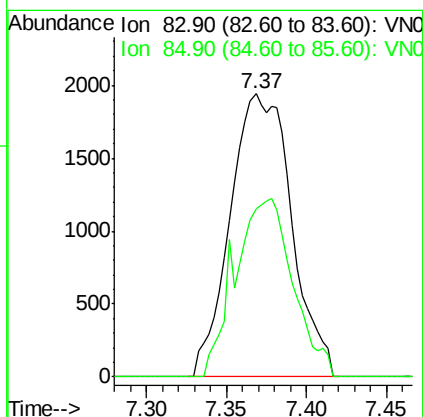
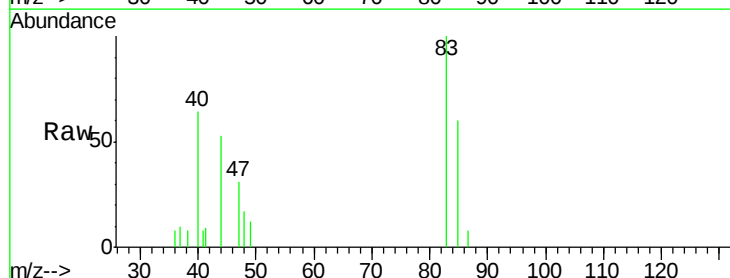
Manual Integrations
APPROVED

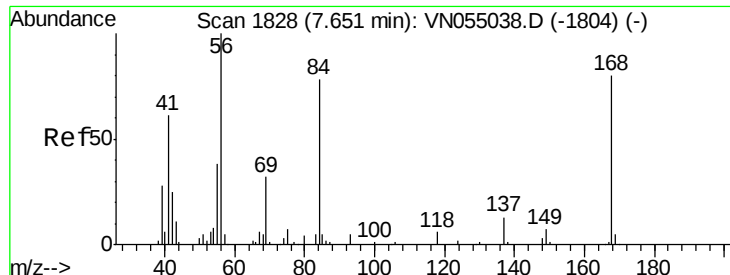
MMDadoda
4/17/2019 2:06:00 PM



#30
Chloroform
Concen: 0.656 ug/l
RT: 7.37 min Scan# 1740
Delta R.T. -0.00 min
Lab File: VN055049.D
Acq: 15 Apr 2019 18:15

Tgt Ion	Ratio	Lower	Upper
83	100		
85	59.6	51.8	77.6





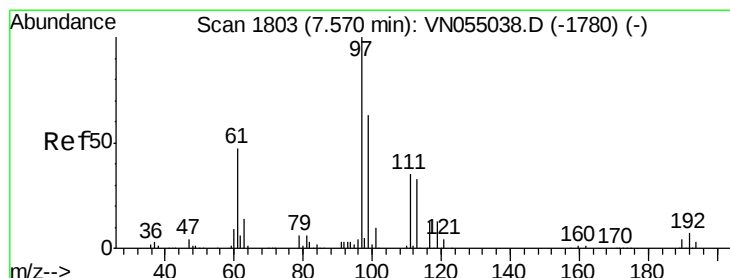
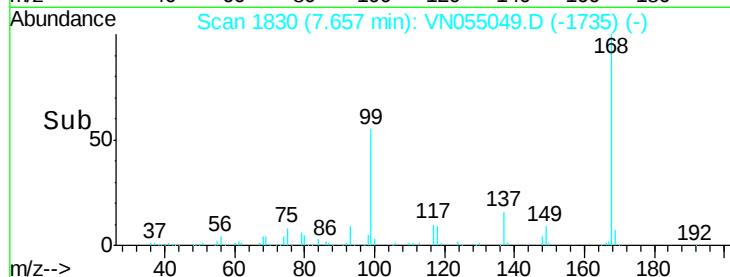
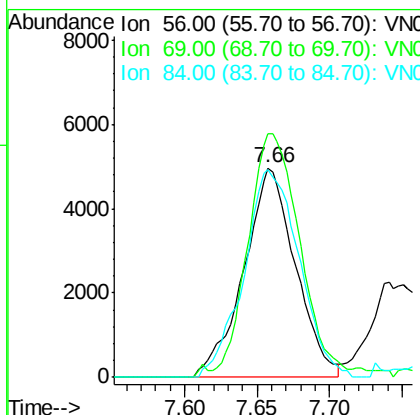
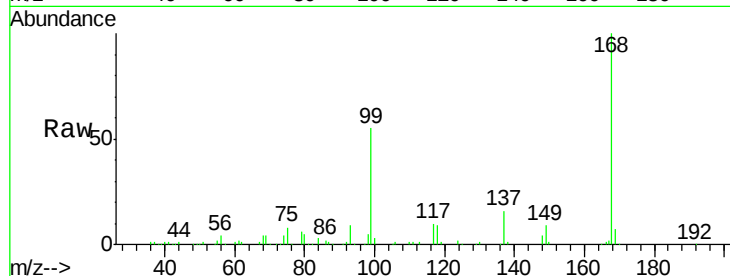
#31
Cyclohexane
Concen: 1.407 ug/l
RT: 7.66 min Scan# 1830
Delta R.T. 0.01 min
Lab File: VN055049.D
Acq: 15 Apr 2019 18:15

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT2-2019

Tot Ion	Ratio	Resp	Lower	Upper
56	100			
69	116.2	24.5	36.7#	
84	99.1	62.9	94.3#	

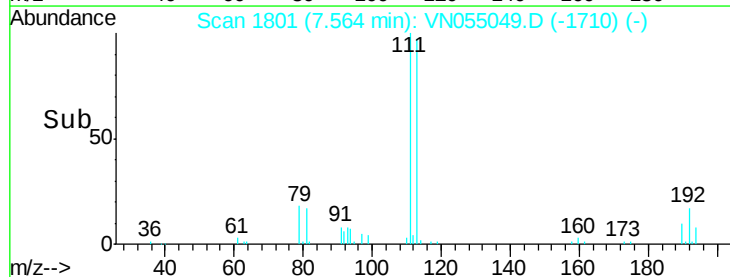
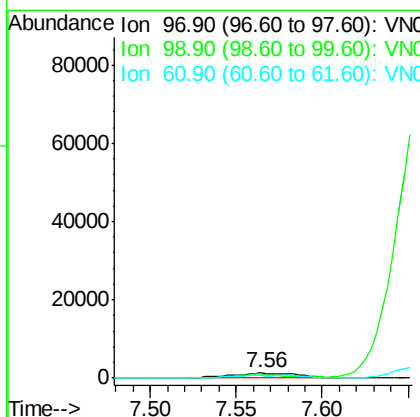
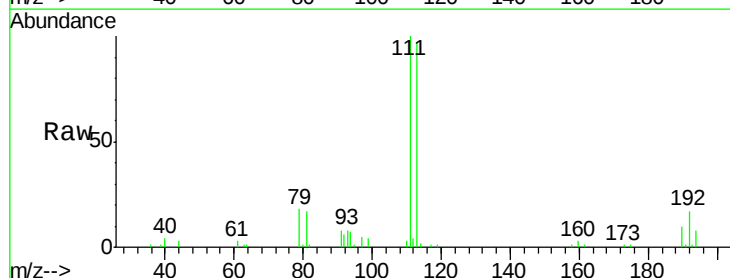
Manual Integrations
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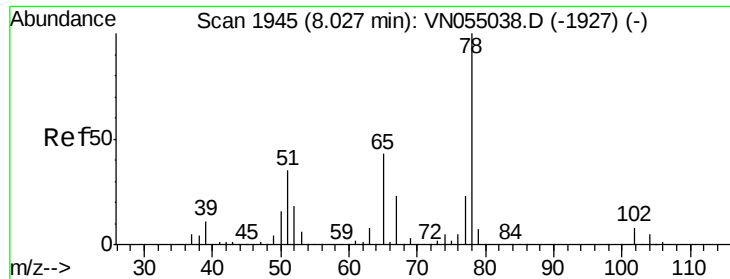
MMDadoda
4/17/2019 2:06:00 PM



#32
1,1,1-Trichloroethane
Concen: 0.558 ug/l
RT: 7.56 min Scan# 1801
Delta R.T. -0.01 min
Lab File: VN055049.D
Acq: 15 Apr 2019 18:15

Tgt Ion	Ratio	Resp	Lower	Upper
97	100			
99	0.0	51.6	77.4#	
61	32.1	38.3	57.5#	





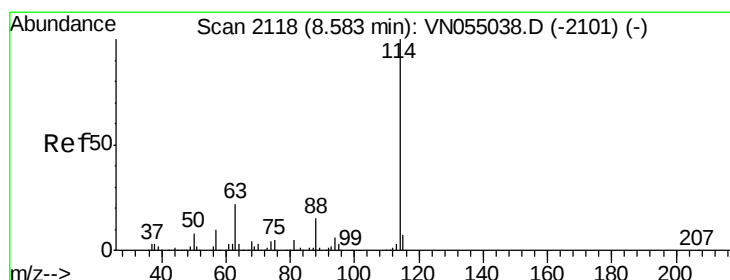
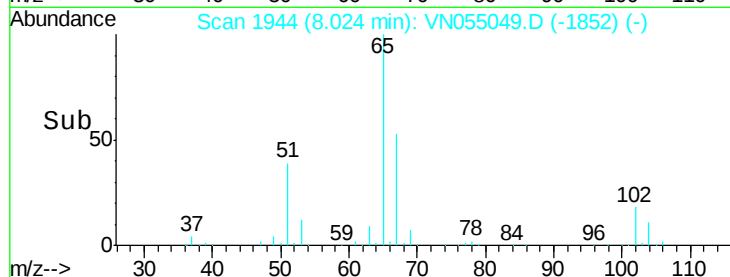
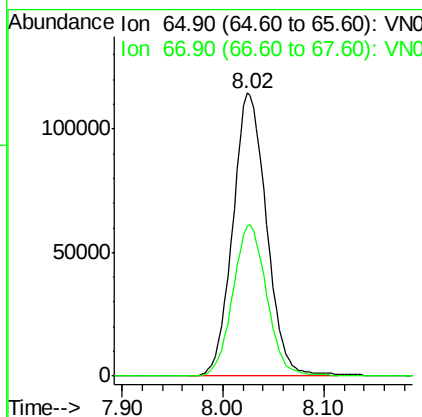
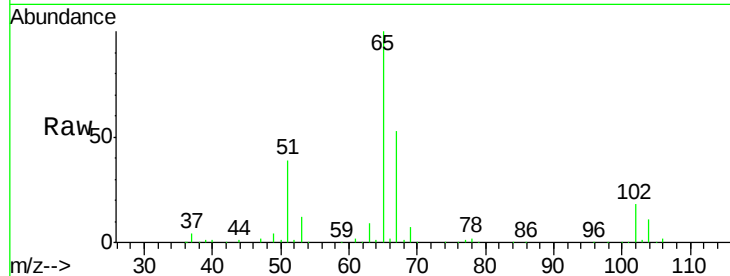
#33
 1,2-Dichloroethane-d4
 Concen: 53.046 ug/l
 RT: 8.02 min Scan# 1944
 Delta R.T. -0.00 min
 Lab File: VN055049.D
 Acq: 15 Apr 2019 18:15

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT2-2019

Tot Ion	Ratio	Resp	Lower	Upper
65	100	266062		
67	53.6	0.0	106.4	

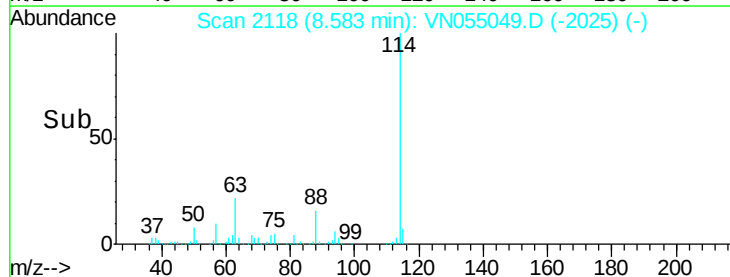
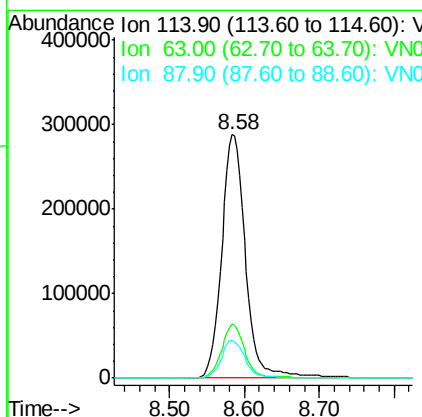
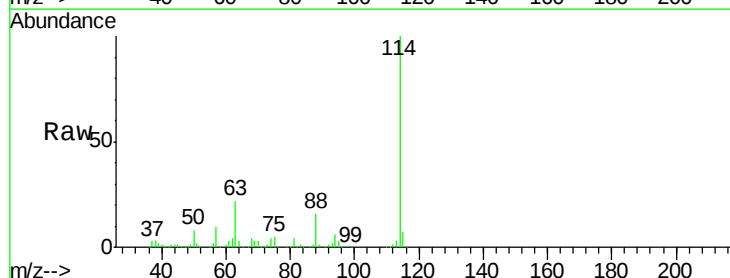
Manual Integrations
 APPROVED

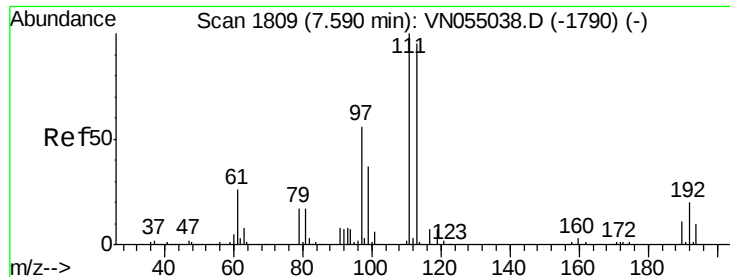
MMDadoda
 4/17/2019 2:06:00 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN055049.D
 Acq: 15 Apr 2019 18:15

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	632898		
63	22.2	0.0	45.2	
88	15.5	0.0	31.8	





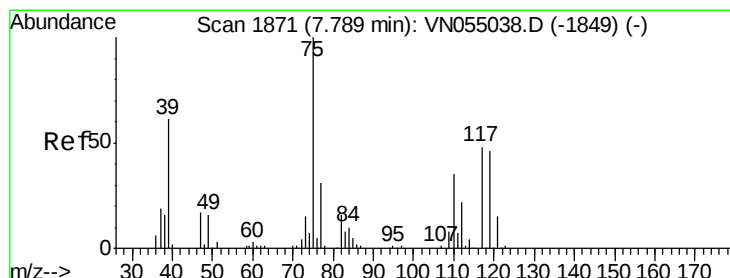
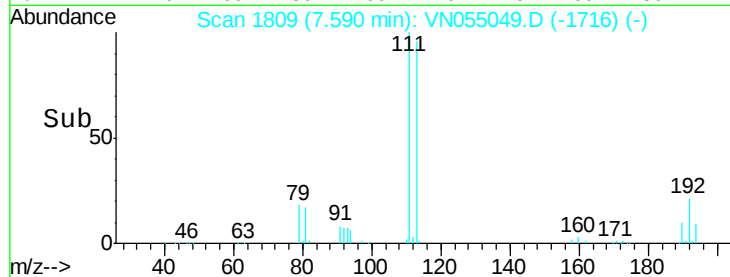
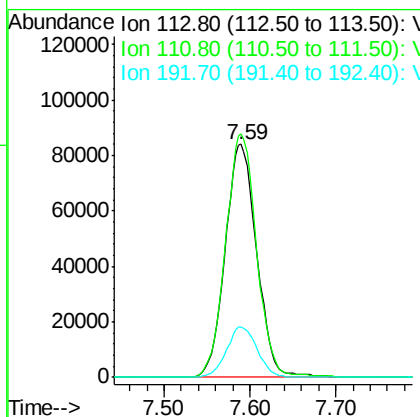
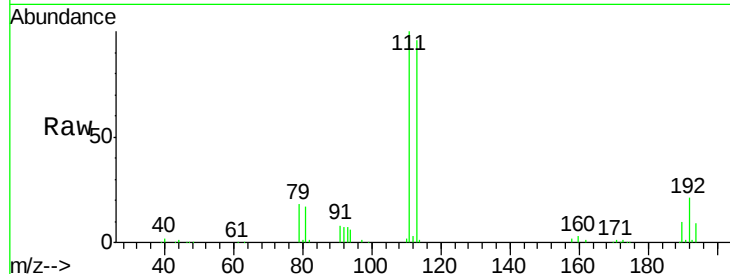
#35
 Dibromofluoromethane
 Concen: 50.393 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN055049.D
 Acq: 15 Apr 2019 18:15

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT2-2019

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	102.8	82.1	123.1	
192	21.1	16.5	24.7	

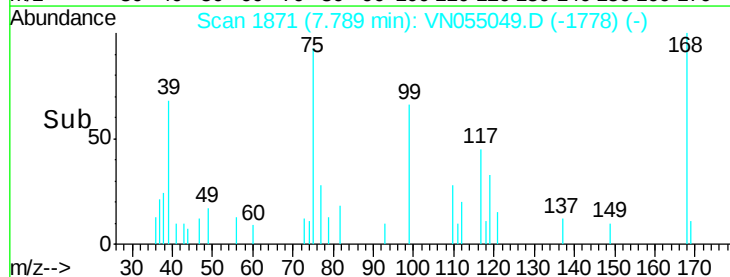
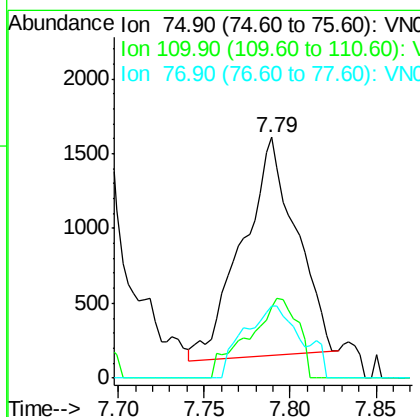
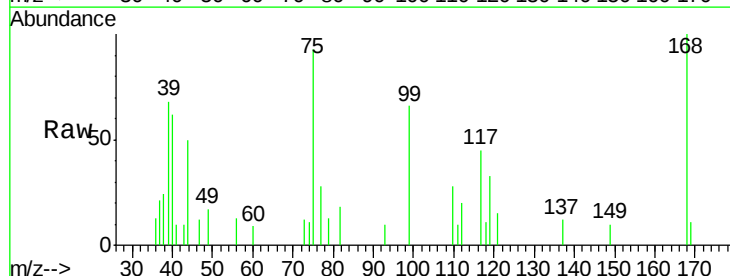
Manual Integrations
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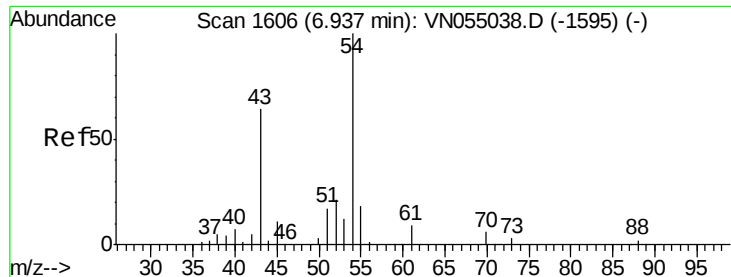
MMDadoda
 4/17/2019 2:06:00 PM



#36
 1,1-Dichloropropene
 Concen: 0.532 ug/l
 RT: 7.79 min Scan# 1871
 Delta R.T. 0.00 min
 Lab File: VN055049.D
 Acq: 15 Apr 2019 18:15

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	33.7	17.5	52.5	
77	30.9	24.9	37.3	





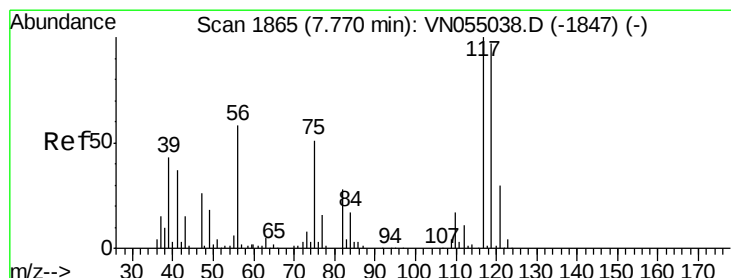
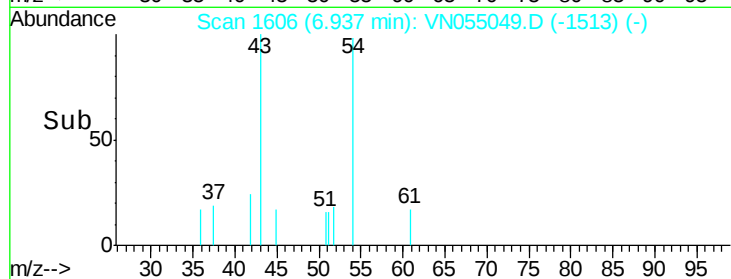
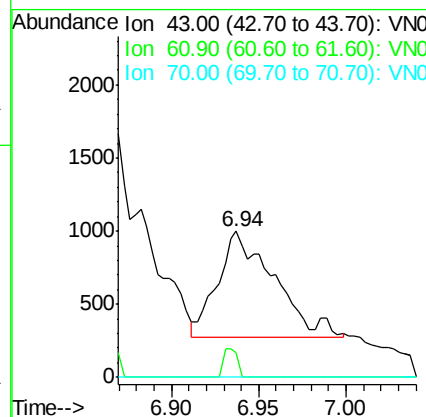
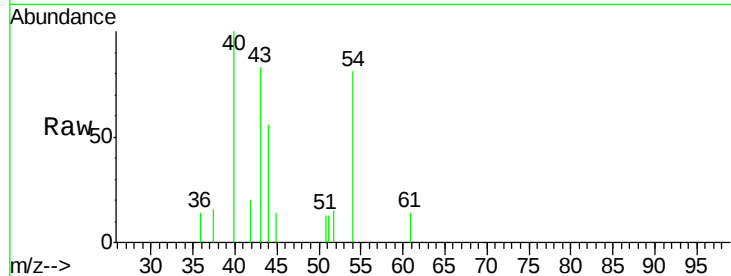
#37
Ethyl Acetate
Concen: 0.330 ug/l m
RT: 6.94 min Scan# 1606
Delta R.T. 0.00 min
Lab File: VN055049.D
Acq: 15 Apr 2019 18:15

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT2-2019

Tot Ion	43	61	70
Ratio	100	0.0	0.0
Lower		10.0	7.1
Upper		15.0#	10.7#

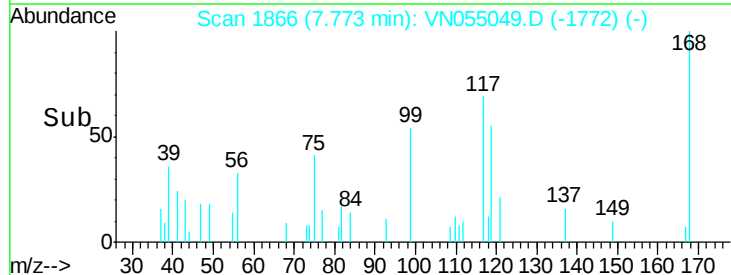
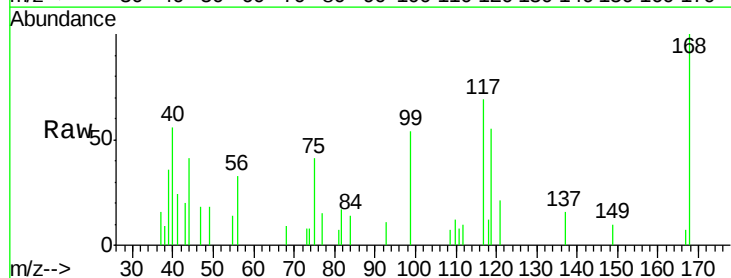
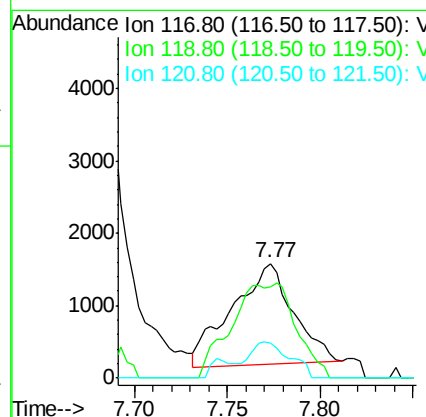
Manual Integrations
APPROVED

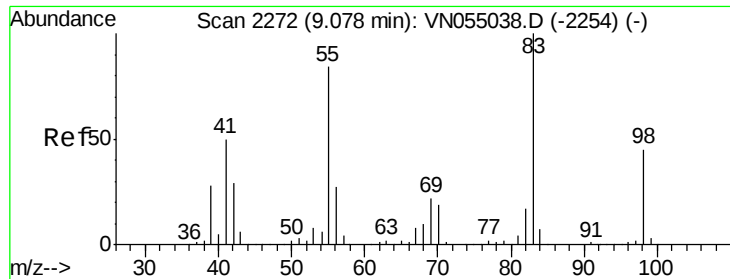
MMDadoda
4/17/2019 2:06:00 PM



#38
Carbon Tetrachloride
Concen: 0.563 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN055049.D
Acq: 15 Apr 2019 18:15

Tgt Ion	117	119	121
Ratio	100	93.7	35.6
Lower		76.3	23.9
Upper		114.5	35.9





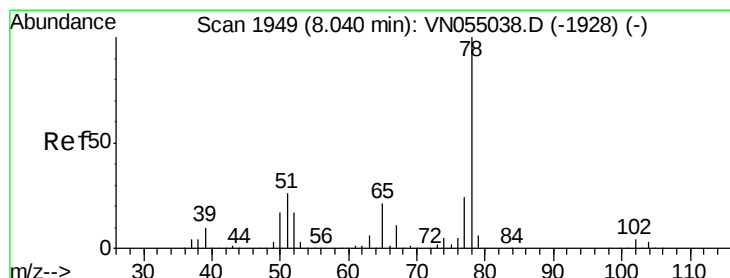
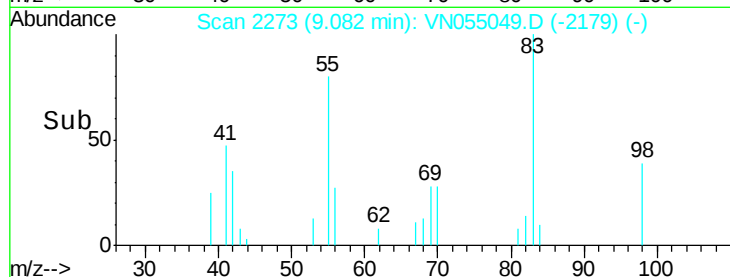
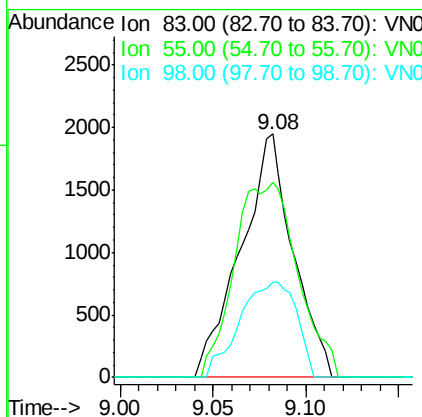
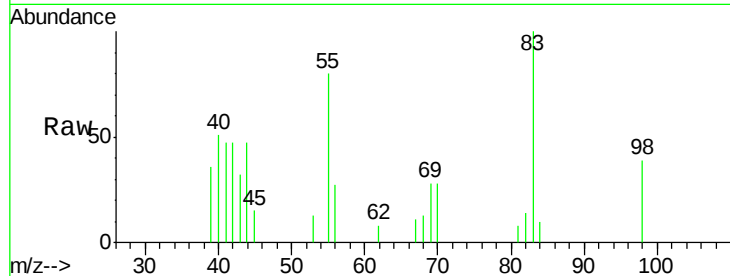
#39
Methvlcvclohexane
Concen: 0.593 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN055049.D
Acq: 15 Apr 2019 18:15

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
83	100		
55	79.8	67.0	100.4
98	38.9	35.6	53.4

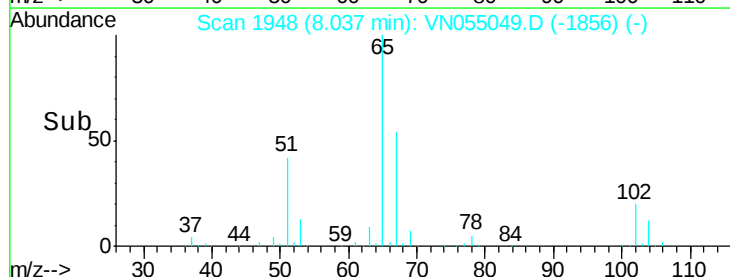
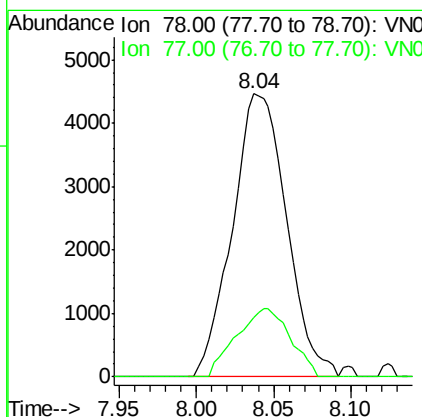
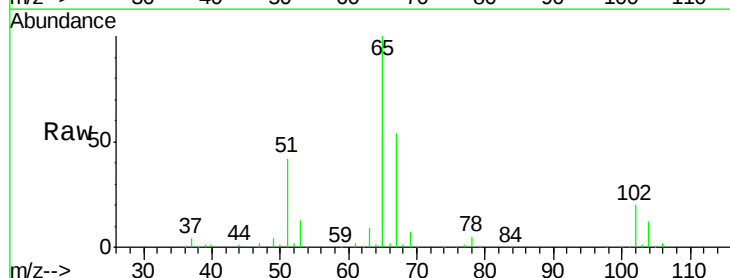
Manual Integrations
APPROVED

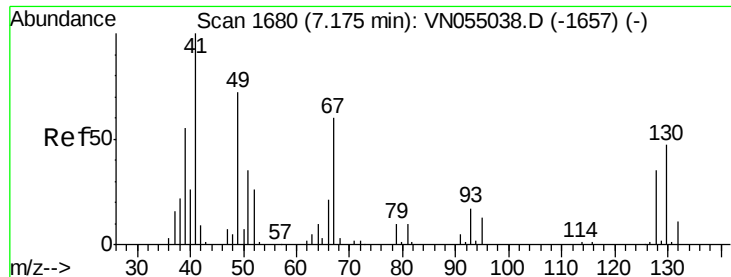
MMDadoda
4/17/2019 2:06:00 PM



#40
Benzene
Concen: 0.604 ug/l
RT: 8.04 min Scan# 1948
Delta R.T. -0.00 min
Lab File: VN055049.D
Acq: 15 Apr 2019 18:15

Tgt Ion	Ratio	Lower	Upper
78	100		
77	21.0	18.8	28.2





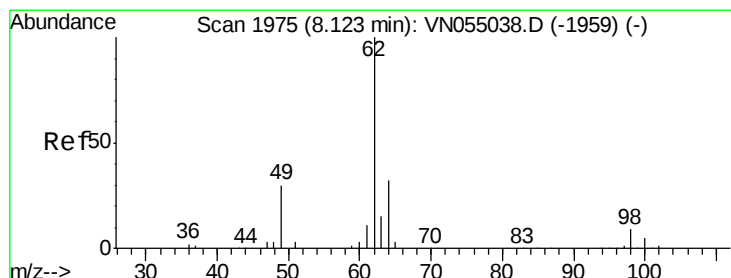
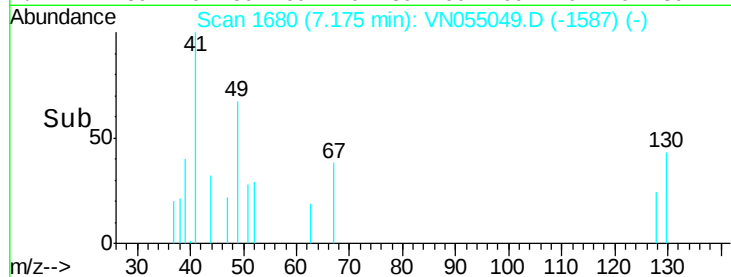
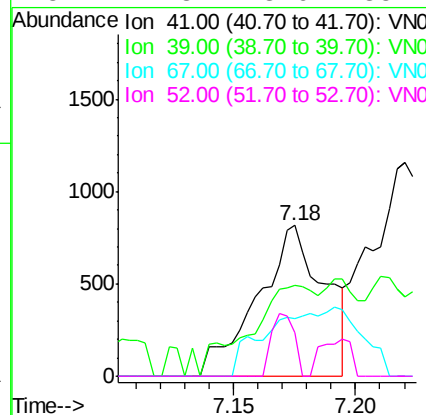
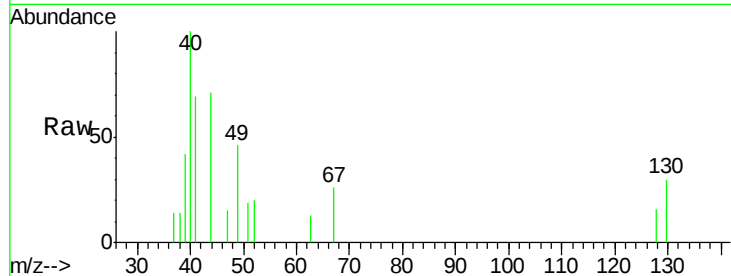
#41
Methacrylonitrile
Concen: 0.576 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VN055049.D
Acq: 15 Apr 2019 18:15

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT2-2019

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	28.8	45.6	68.4#	
67	0.0	57.0	85.6#	
52	14.3	23.6	35.4#	

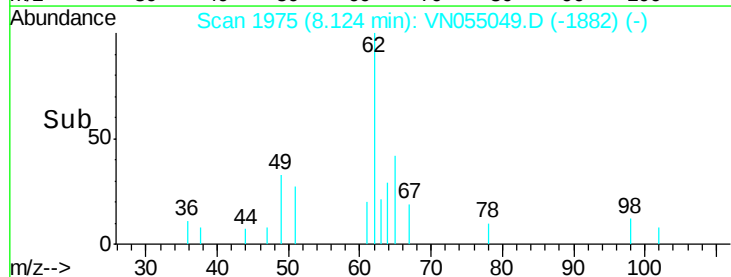
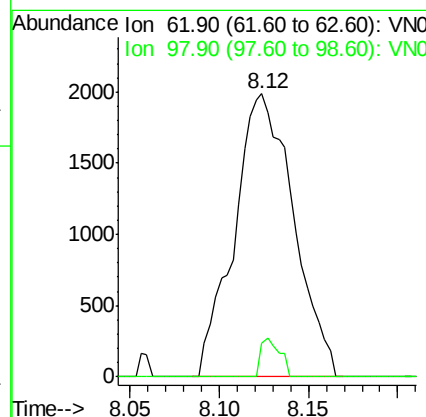
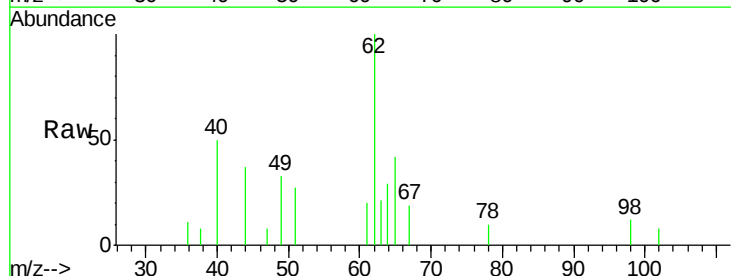
Manual Integrations
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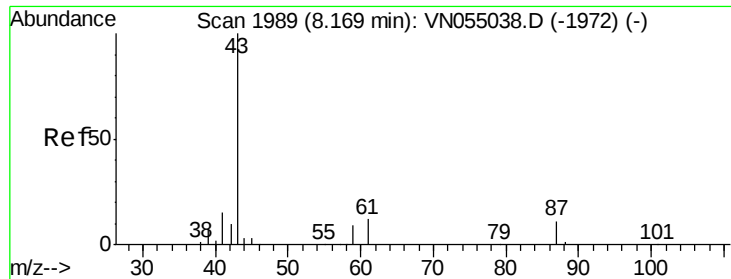
MMDadoda
4/17/2019 2:06:00 PM



#42
1,2-Dichloroethane
Concen: 0.737 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VN055049.D
Acq: 15 Apr 2019 18:15

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	4.4	0.0	17.4	





#43

Isopropyl Acetate

Concen: 0.630 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.00 min

Lab File: VN055049.D

Acq: 15 Apr 2019 18:15

Instrument :

MSVOA_N

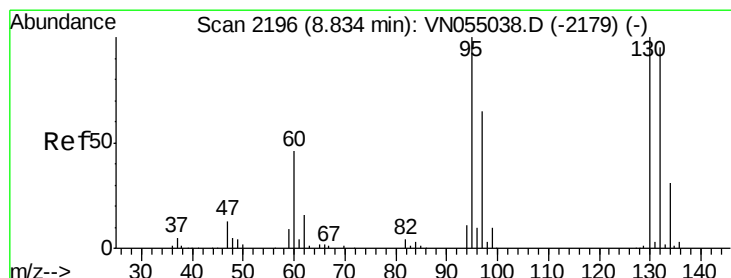
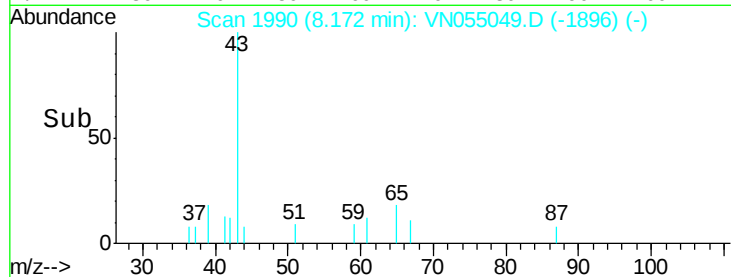
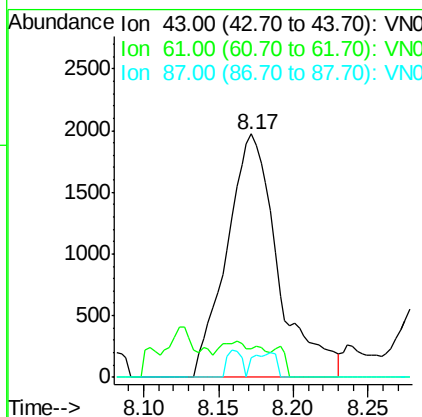
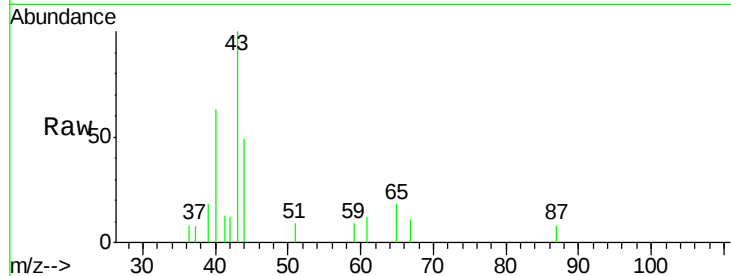
ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion:	43	Resp:	4712
Ion	Ratio	Lower	Upper
43	100		
61	0.0	14.3	21.5#
87	4.4	8.6	13.0#

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#44

Trichloroethene

Concen: 0.554 ug/l

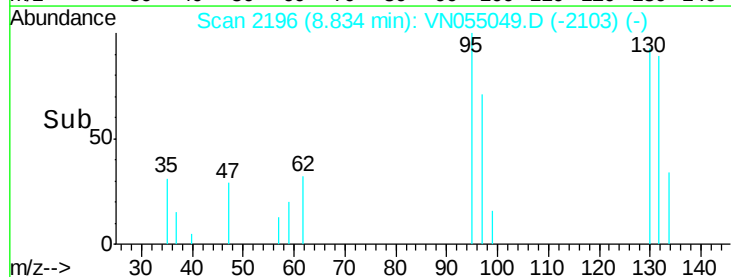
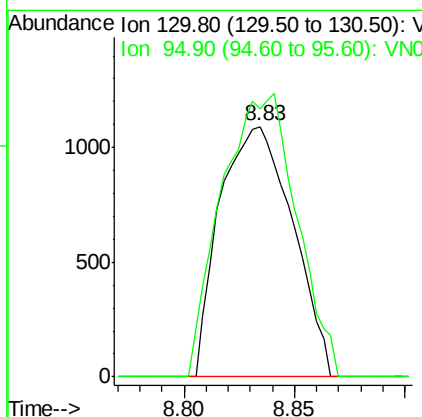
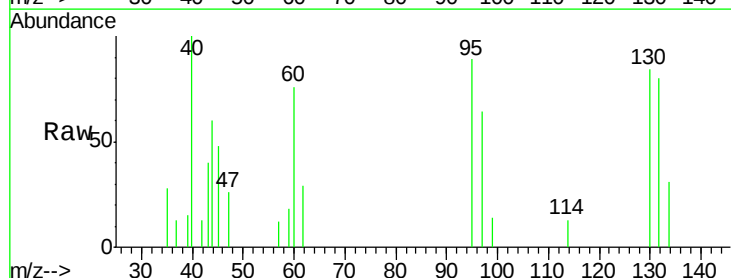
RT: 8.83 min Scan# 2196

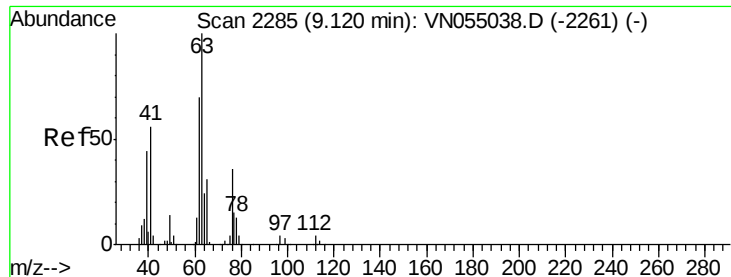
Delta R.T. 0.00 min

Lab File: VN055049.D

Acq: 15 Apr 2019 18:15

Tgt Ion:	130	Resp:	2497
Ion	Ratio	Lower	Upper
130	100		
95	107.1	0.0	201.6





#45

1,2-Dichloropropane

Concen: 0.564 ug/l

RT: 9.12 min Scan# 2284

Delta R.T. -0.00 min

Lab File: VN055049.D

Acq: 15 Apr 2019 18:15

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion: 63 Resp: 2827

Ion Ratio Lower Upper

63 100

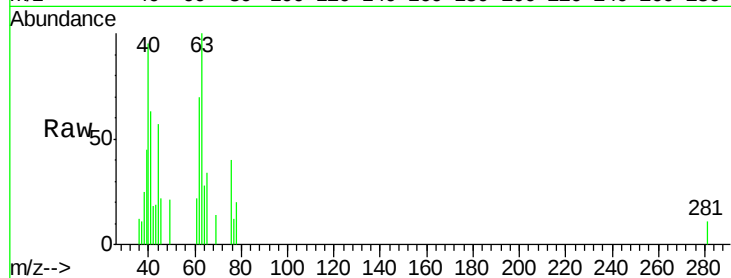
65 34.3 24.4 36.6

Manual Integrations

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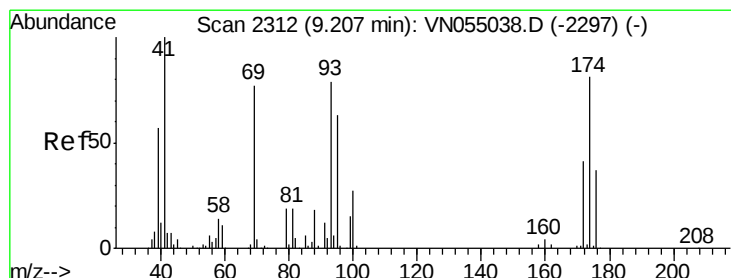
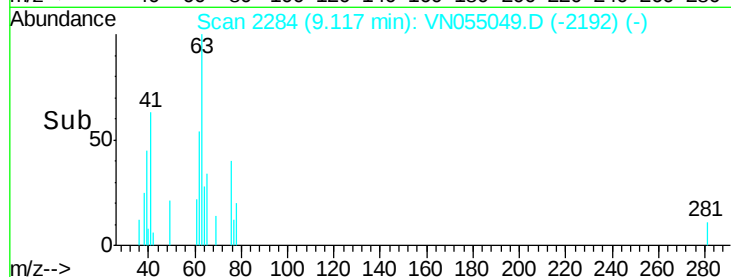
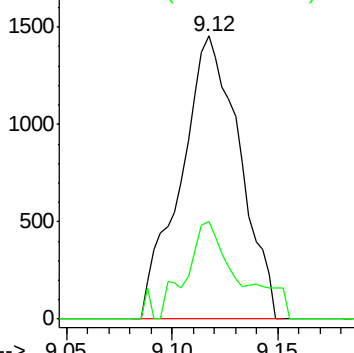
MMDadoda

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Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#46

Dibromomethane

Concen: 0.596 ug/l

RT: 9.21 min Scan# 2312

Delta R.T. 0.00 min

Lab File: VN055049.D

Acq: 15 Apr 2019 18:15

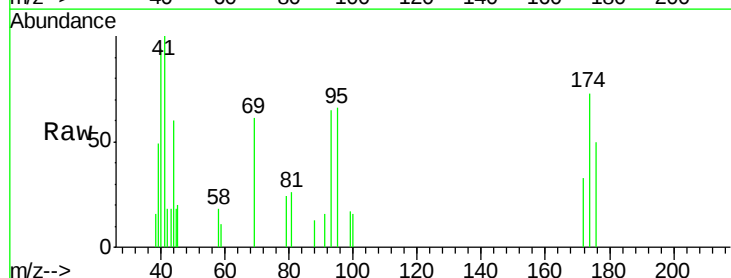
Tgt Ion: 93 Resp: 1700

Ion Ratio Lower Upper

93 100

95 97.2 65.0 97.6

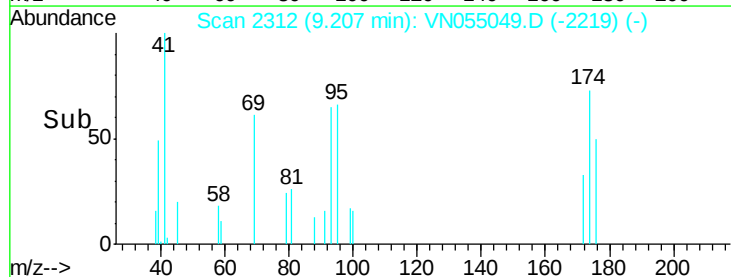
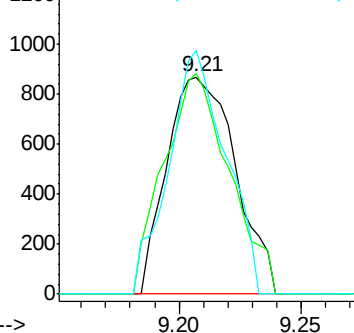
174 93.4 81.0 121.6

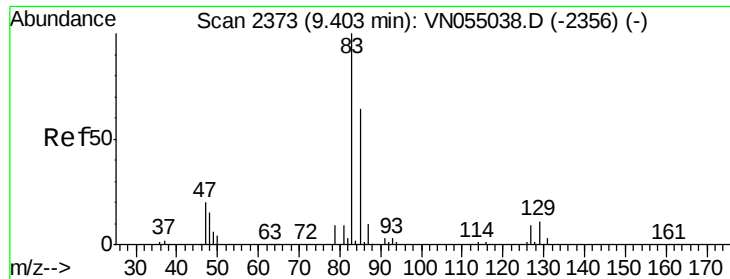


Abundance Ion 92.80 (92.50 to 93.50): VN0

Ion 94.80 (94.50 to 95.50): VN0

Ion 173.70 (173.40 to 174.40): V





#47

Bromodichloromethane

Concen: 0.571 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN055049.D

Acq: 15 Apr 2019 18:15

Instrument :

MSVOA_N

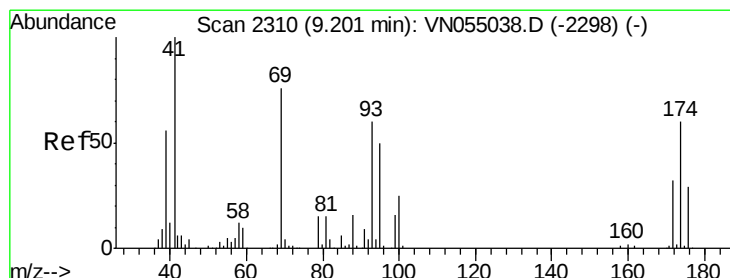
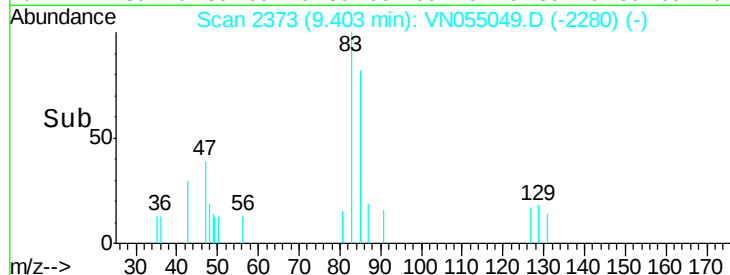
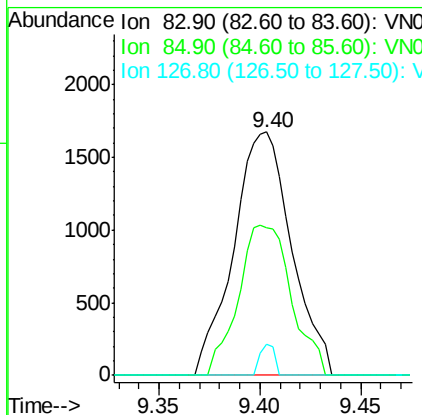
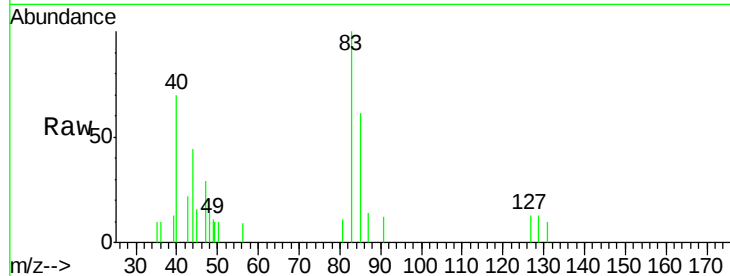
ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion:	83	Resp:	3359
Ion	Ratio	Lower	Upper
83	100		
85	60.9	51.2	76.8
127	12.9	6.8	10.2#

Manual Integrations
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#48

Methyl methacrylate

Concen: 0.867 ug/l

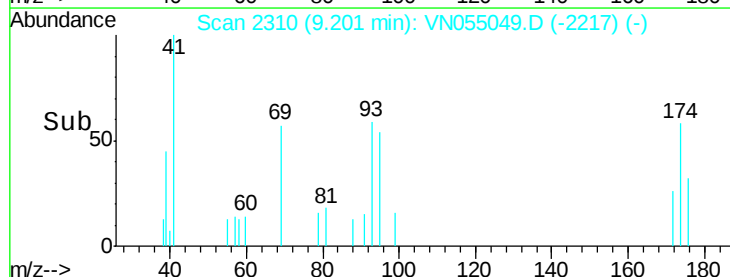
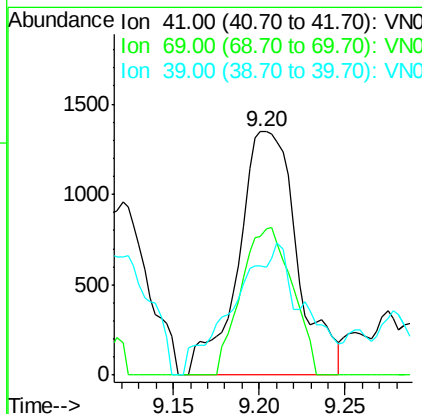
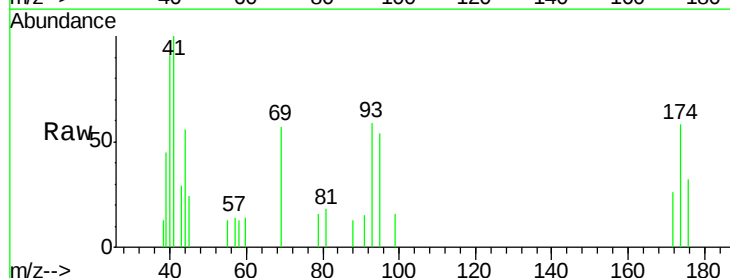
RT: 9.20 min Scan# 2310

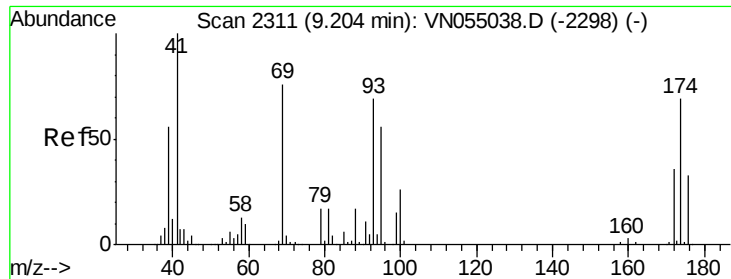
Delta R.T. 0.00 min

Lab File: VN055049.D

Acq: 15 Apr 2019 18:15

Tgt Ion:	41	Resp:	3215
Ion	Ratio	Lower	Upper
41	100		
69	52.6	60.5	90.7#
39	64.9	43.9	65.9





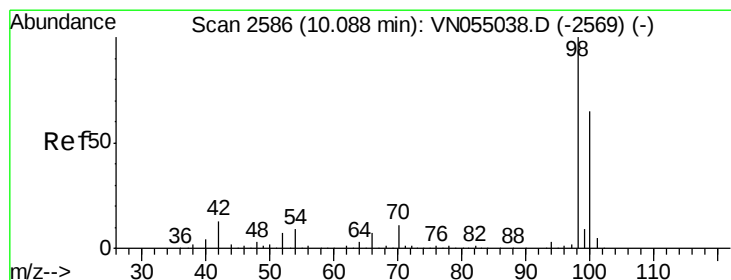
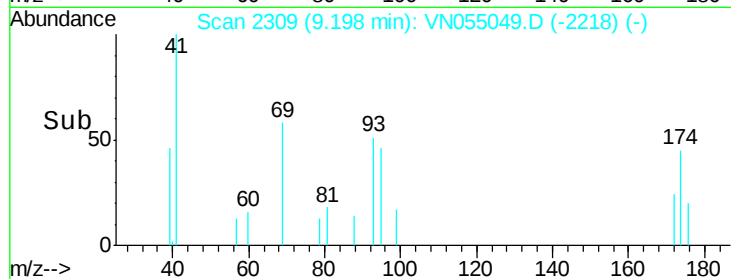
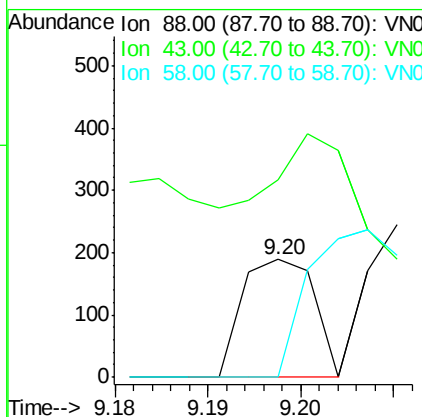
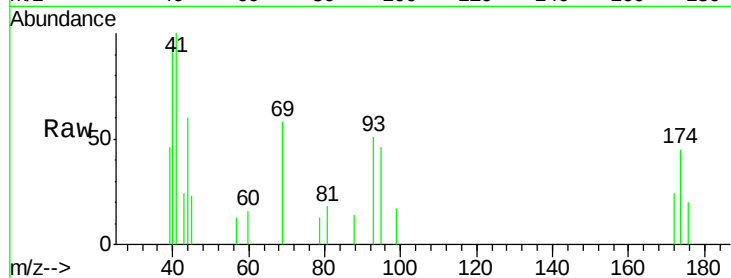
#49
1,4-Dioxane
Concen: 2.935 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. -0.01 min
Lab File: VN055049.D
Acq: 15 Apr 2019 18:15

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
88	100		
43	121.6	31.8	47.8#
58	0.0	61.6	92.4#

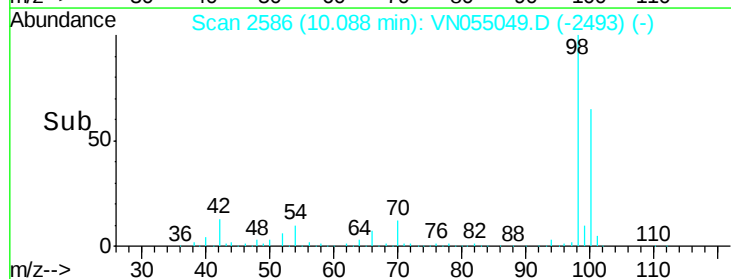
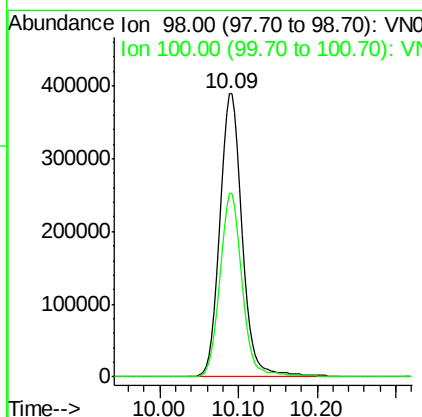
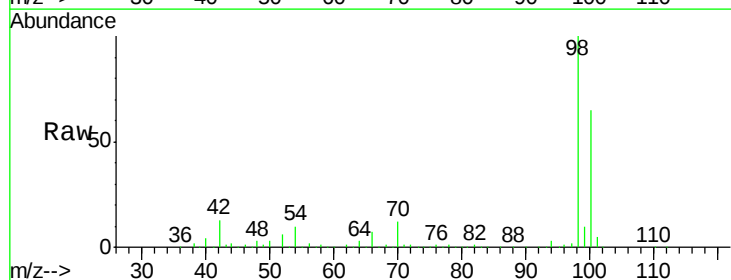
Manual Integrations
APPROVED

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4/17/2019 2:06:00 PM



#50
Toluene-d8
Concen: 50.464 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. 0.00 min
Lab File: VN055049.D
Acq: 15 Apr 2019 18:15

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.5	51.1	76.7





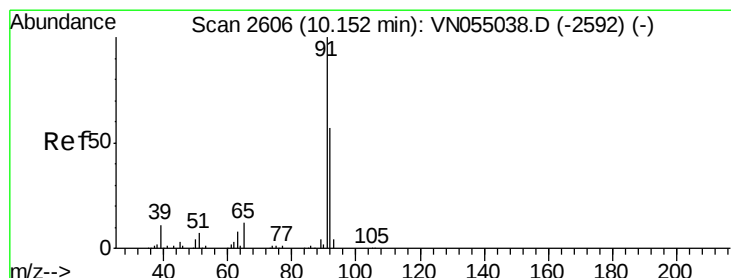
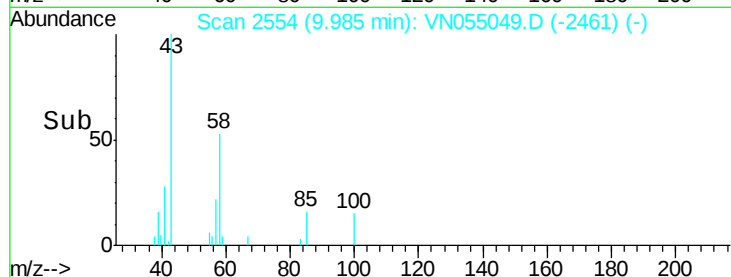
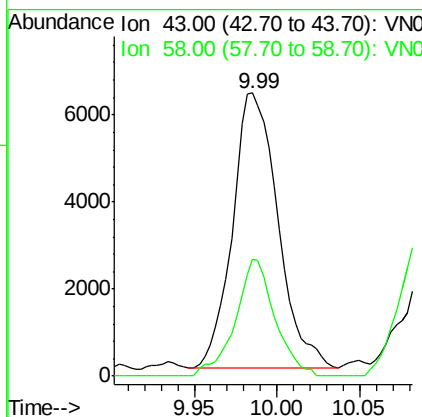
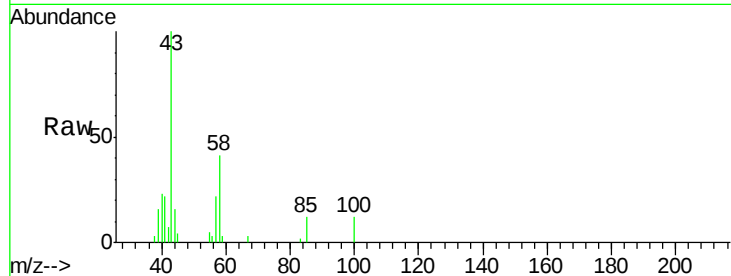
#51
4-Methyl-2-Pentanone
Concen: 2.784 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN055049.D
Acq: 15 Apr 2019 18:15

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT2-2019

Tot Ion	43	Resp	12038
Ion Ratio	100	Lower	Upper
43	100		
58	36.9	29.0	43.4

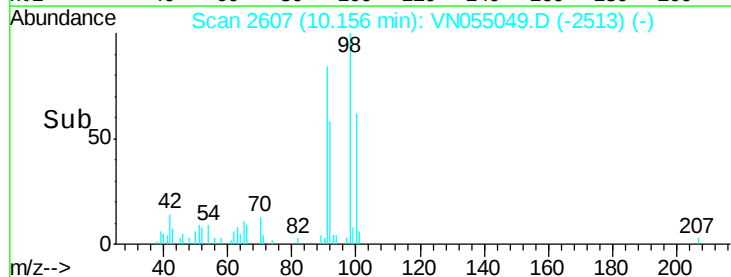
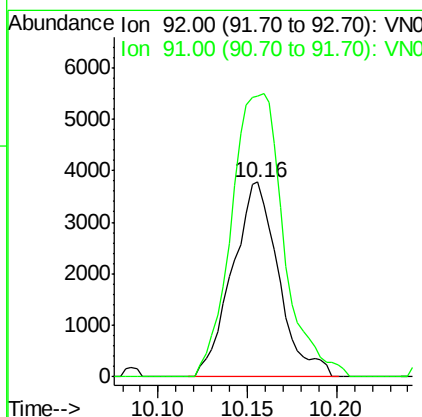
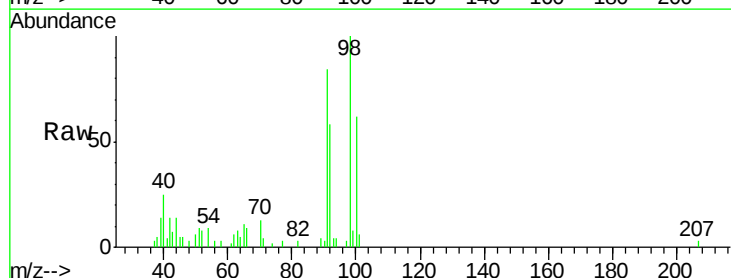
Manual Integrations
APPROVED

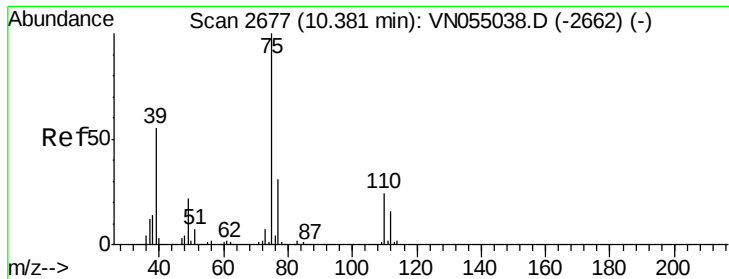
MMDadoda
4/17/2019 2:06:00 PM



#52
Toluene
Concen: 0.662 ug/l
RT: 10.16 min Scan# 2607
Delta R.T. 0.00 min
Lab File: VN055049.D
Acq: 15 Apr 2019 18:15

Tgt Ion	92	Resp	6822
Ion Ratio	100	Lower	Upper
92	100		
91	165.1	140.8	211.2





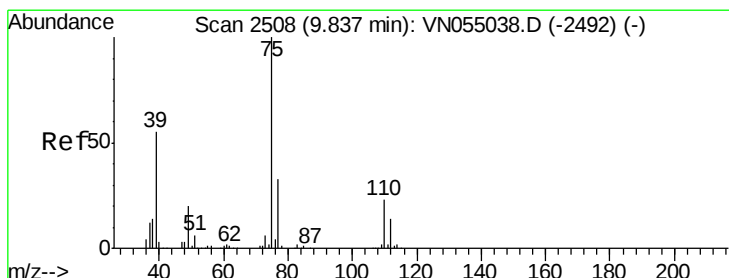
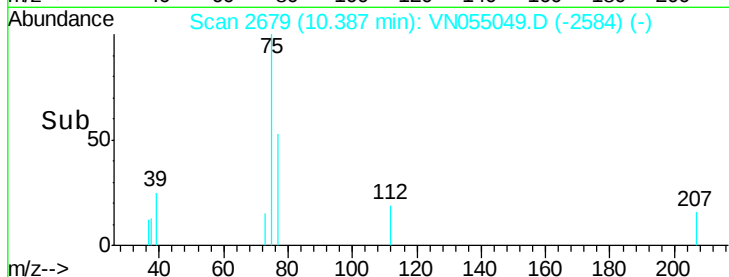
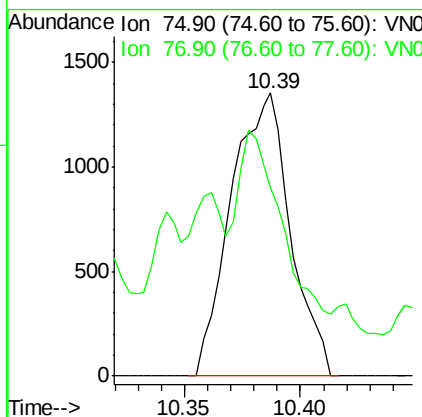
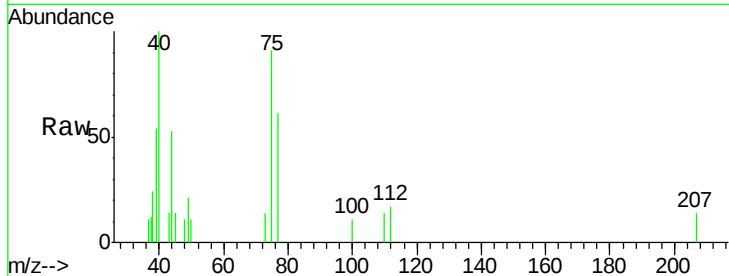
#53
t-1,3-Dichloropropene
Concen: 0.468 ug/l
RT: 10.39 min Scan# 2679
Delta R.T. 0.01 min
Lab File: VN055049.D
Acq: 15 Apr 2019 18:15

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT2-2019

Tot Ion: 75 Resp: 2406
Ion Ratio Lower Upper
75 100
77 42.4 24.6 37.0#

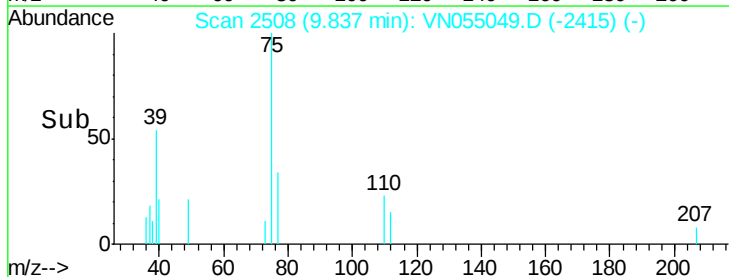
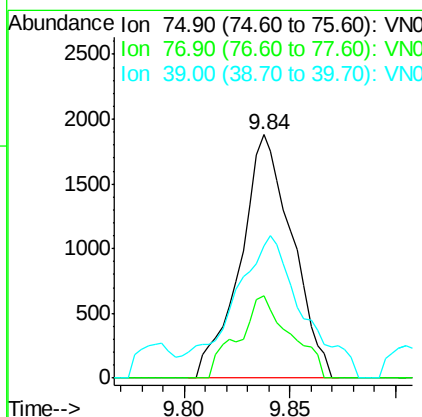
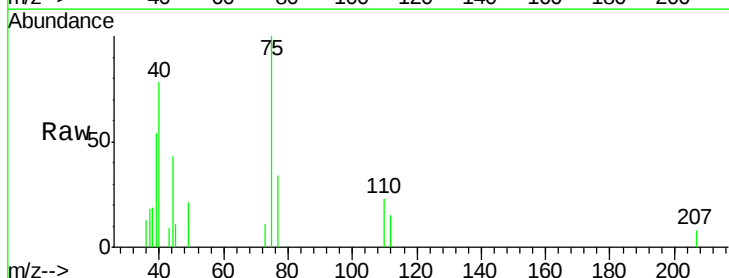
Manual Integrations
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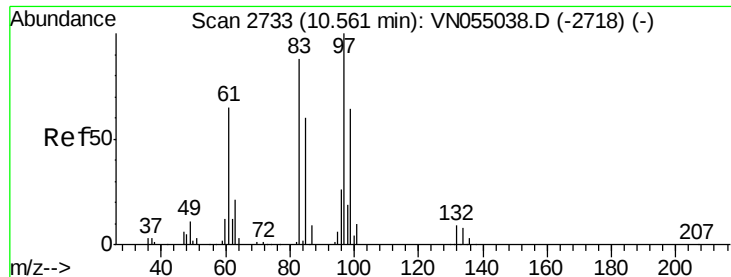
MMDadoda
4/17/2019 2:06:00 PM



#54
cis-1,3-Dichloropropene
Concen: 0.503 ug/l
RT: 9.84 min Scan# 2508
Delta R.T. 0.00 min
Lab File: VN055049.D
Acq: 15 Apr 2019 18:15

Tgt Ion: 75 Resp: 3208
Ion Ratio Lower Upper
75 100
77 33.8 25.8 38.6
39 43.4 43.8 65.8#





#55

1,1,2-Trichloroethane

Concen: 0.617 ug/l

RT: 10.56 min Scan# 2734

Delta R.T. 0.00 min

Lab File: VN055049.D

Acq: 15 Apr 2019 18:15

Instrument :

MSVOA_N

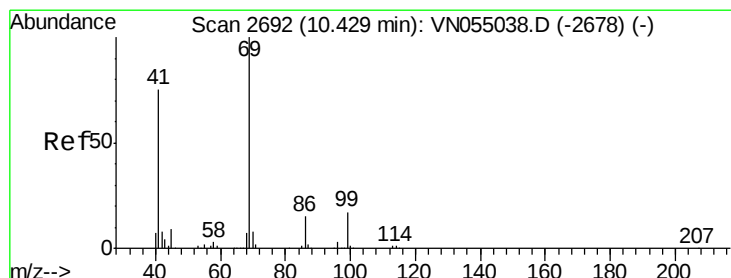
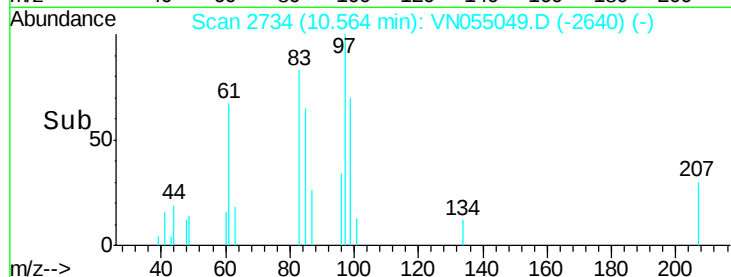
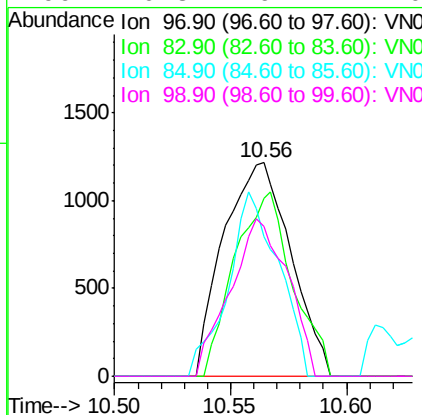
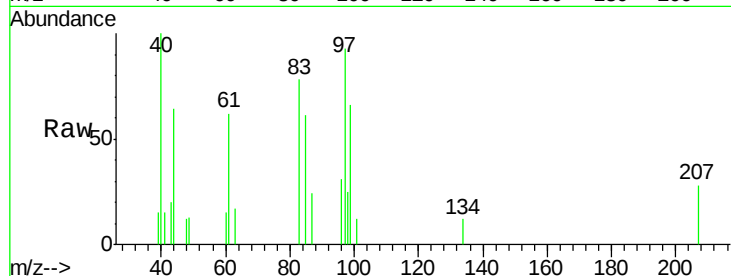
ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion:	97	Resp:	2450
Ion	Ratio	Lower	Upper
97	100		
83	83.1	70.5	105.7
85	65.2	45.5	68.3
99	70.3	49.4	74.0

Manual Integrations
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4/17/2019 2:06:00 PM



#56

Ethyl methacrylate

Concen: 0.583 ug/l

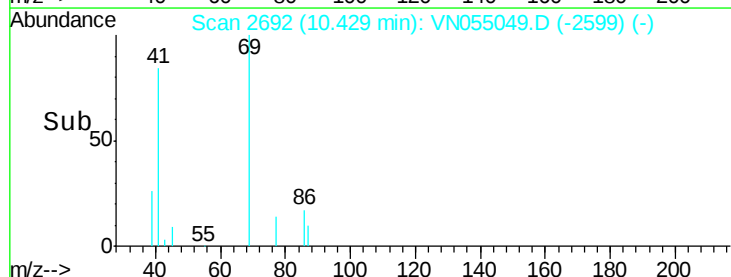
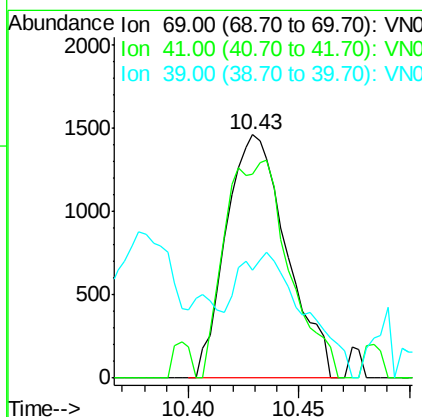
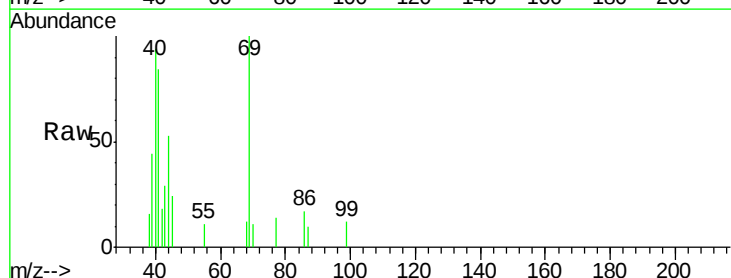
RT: 10.43 min Scan# 2692

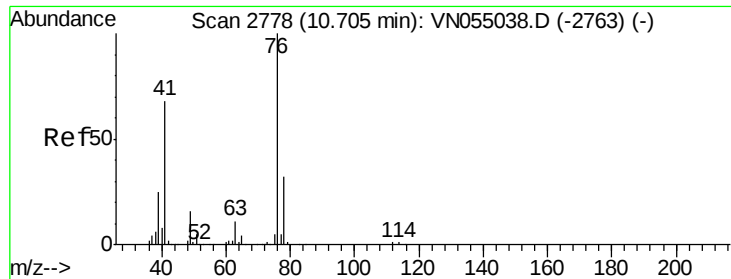
Delta R.T. 0.00 min

Lab File: VN055049.D

Acq: 15 Apr 2019 18:15

Tgt Ion:	69	Resp:	2774
Ion	Ratio	Lower	Upper
69	100		
41	95.4	61.4	92.0#
39	57.7	30.8	46.2#





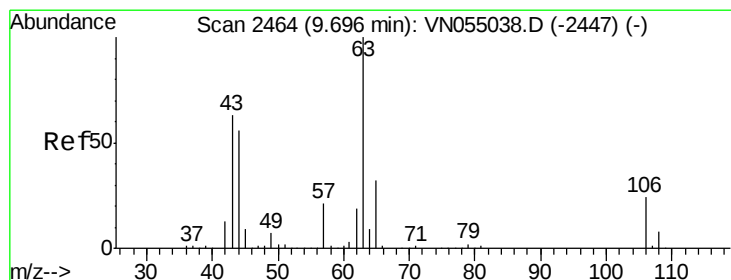
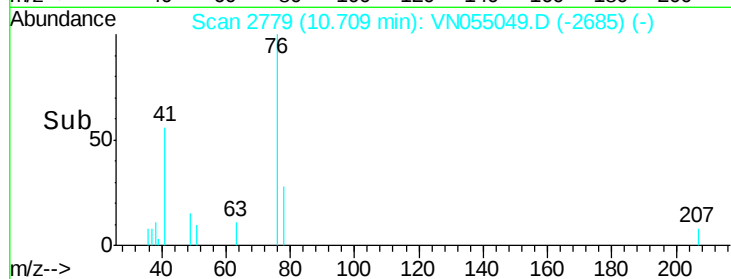
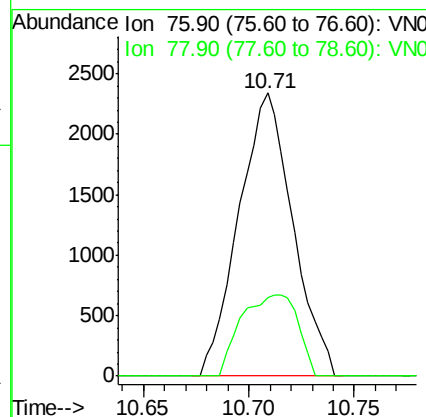
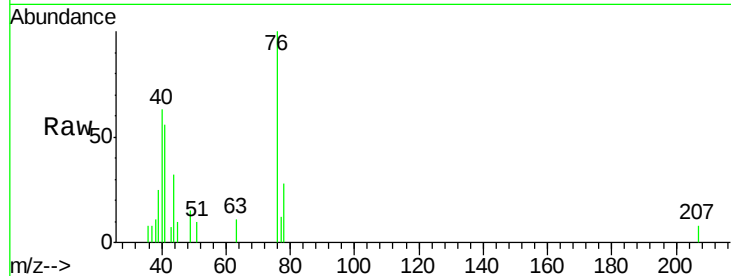
#57
 1,3-Dichloropropane
 Concen: 0.616 ug/l
 RT: 10.71 min Scan# 2779
 Delta R.T. 0.00 min
 Lab File: VN055049.D
 Acq: 15 Apr 2019 18:15

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT2-2019

Tot Ion: 76 Resp: 4159
 Ion Ratio Lower Upper
 76 100
 78 30.1 25.6 38.4

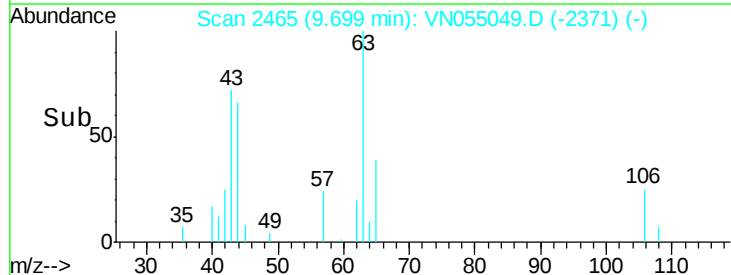
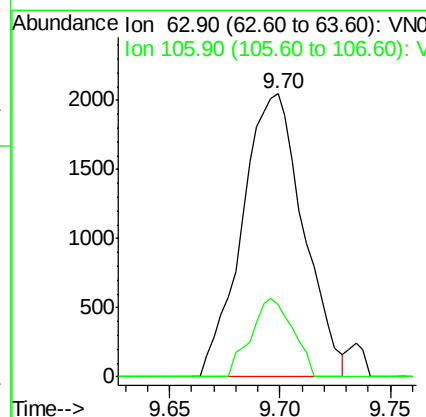
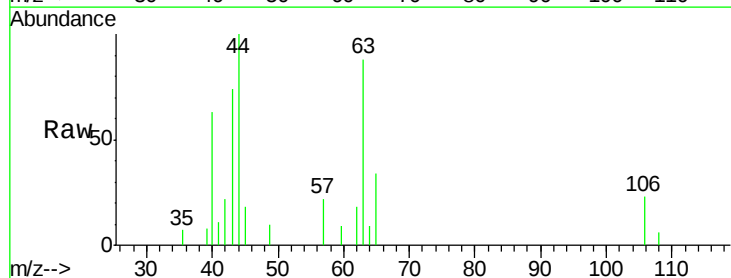
Manual Integrations
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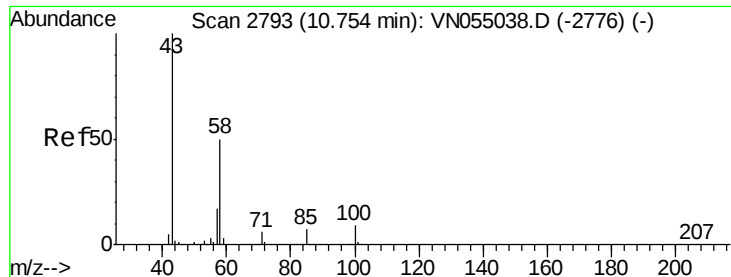
MMDadoda
 4/17/2019 2:06:00 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 2.250 ug/l
 RT: 9.70 min Scan# 2465
 Delta R.T. 0.00 min
 Lab File: VN055049.D
 Acq: 15 Apr 2019 18:15

Tgt Ion: 63 Resp: 3953
 Ion Ratio Lower Upper
 63 100
 106 19.0 20.0 30.0#





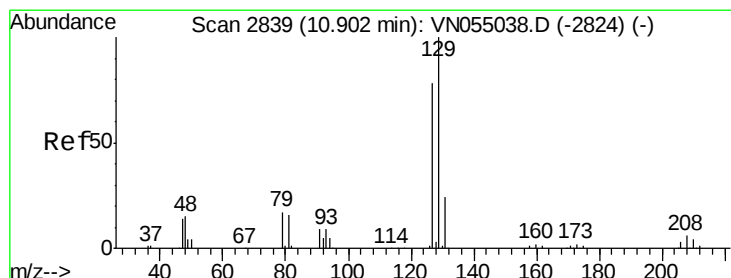
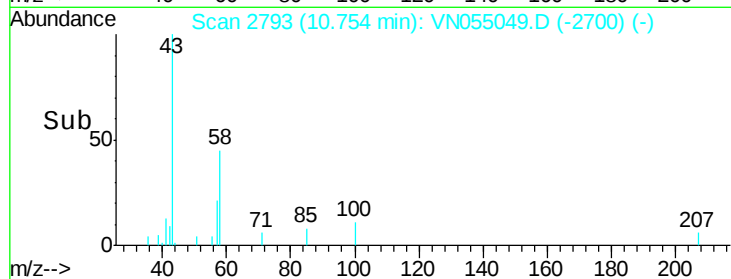
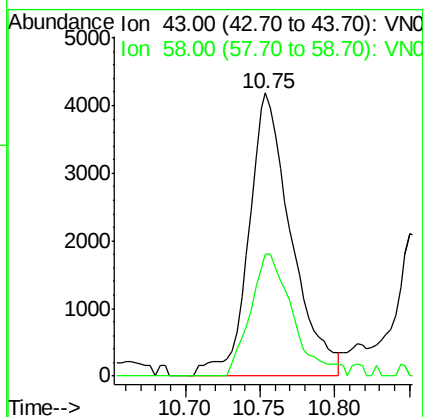
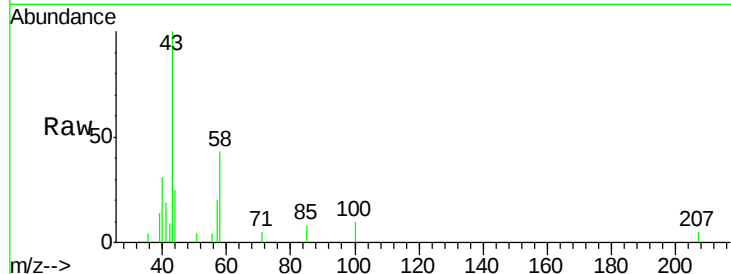
#59
2-Hexanone
Concen: 3.036 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN055049.D
Acq: 15 Apr 2019 18:15

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT2-2019

Tot Ion: 43 Resp: 8246
Ion Ratio Lower Upper
43 100
58 42.9 25.1 75.2

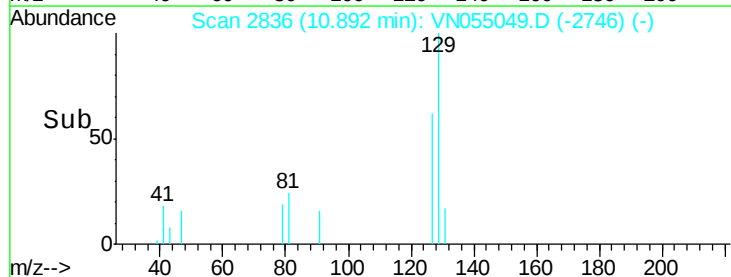
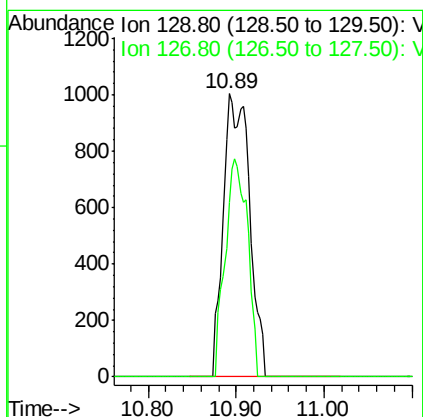
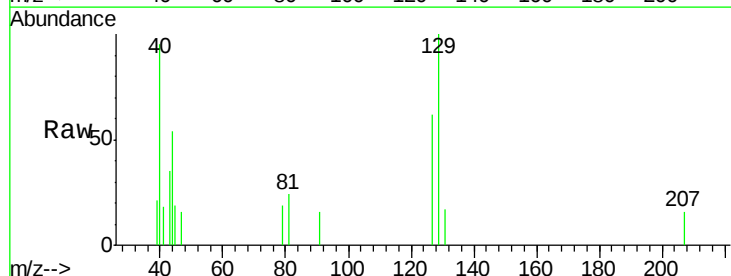
Manual Integrations
APPROVED

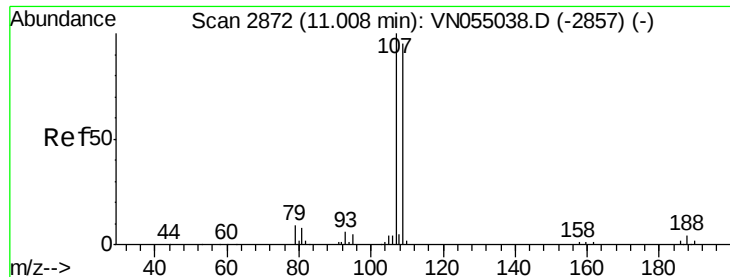
MMDadoda
4/17/2019 2:06:00 PM



#60
Dibromochloromethane
Concen: 0.540 ug/l m
RT: 10.89 min Scan# 2836
Delta R.T. -0.01 min
Lab File: VN055049.D
Acq: 15 Apr 2019 18:15

Tgt Ion: 129 Resp: 2092
Ion Ratio Lower Upper
129 100
127 65.4 38.2 114.6





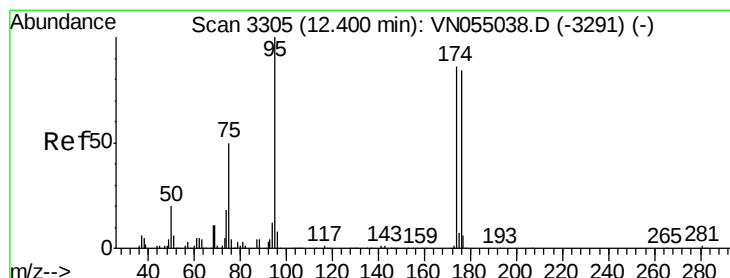
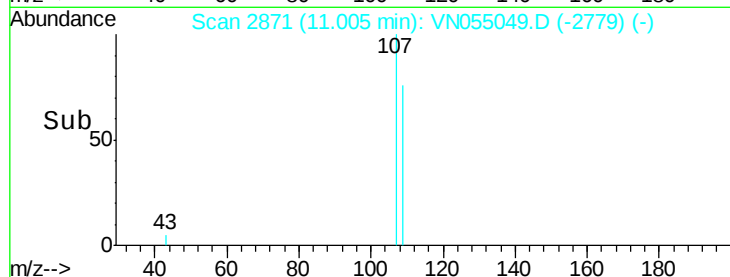
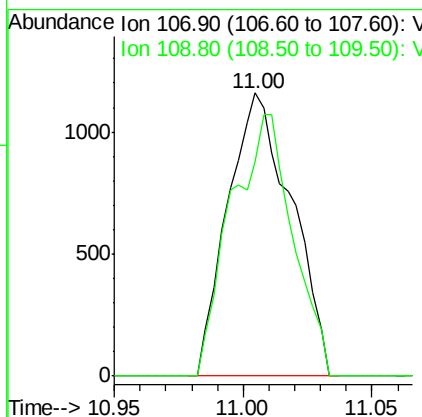
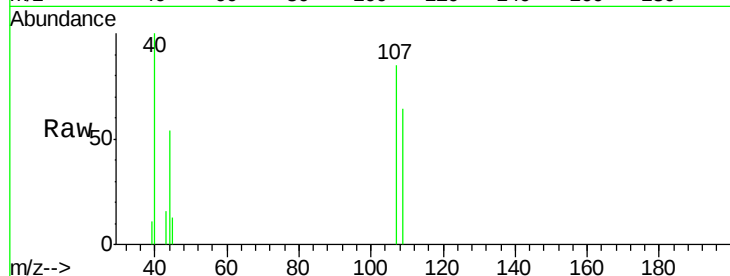
#61
 1,2-Dibromoethane
 Concen: 0.547 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. -0.00 min
 Lab File: VN055049.D
 Acq: 15 Apr 2019 18:15

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
107	100		
109	89.7	76.5	114.7

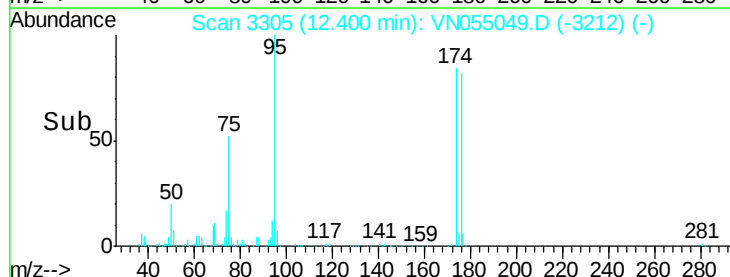
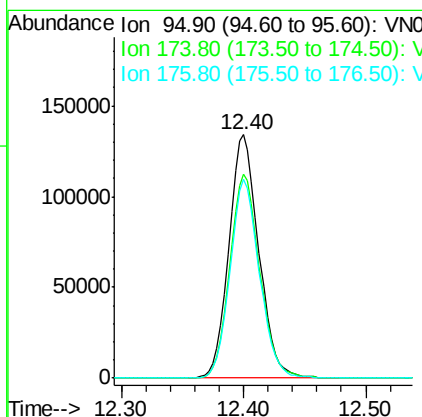
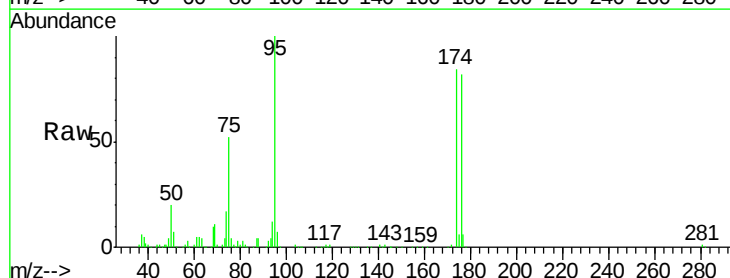
Manual Integrations
 APPROVED

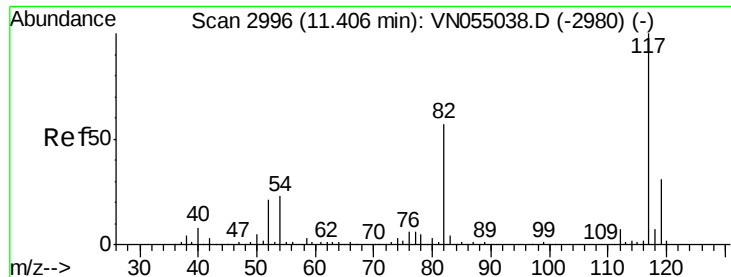
MMDadoda
 4/17/2019 2:06:00 PM



#62
 4-Bromofluorobenzene
 Concen: 46.457 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.00 min
 Lab File: VN055049.D
 Acq: 15 Apr 2019 18:15

Tgt Ion	Ratio	Lower	Upper
95	100		
174	84.2	0.0	174.4
176	80.5	0.0	166.8





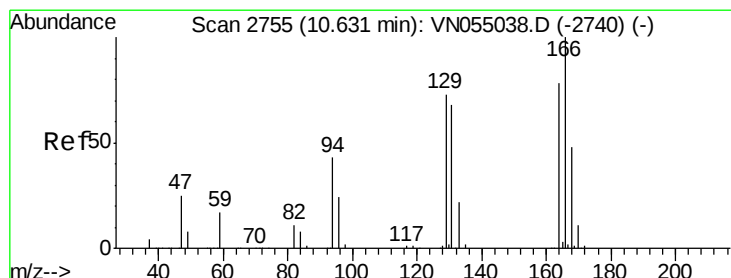
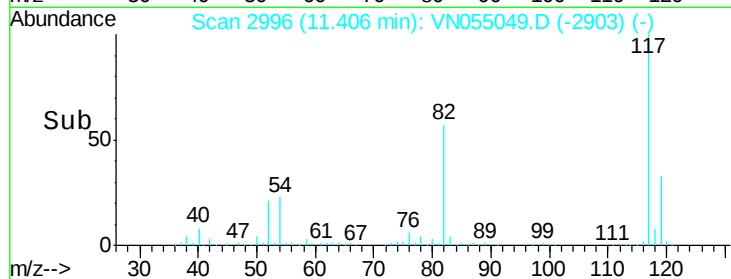
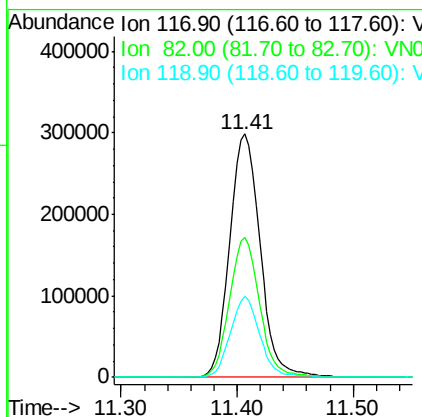
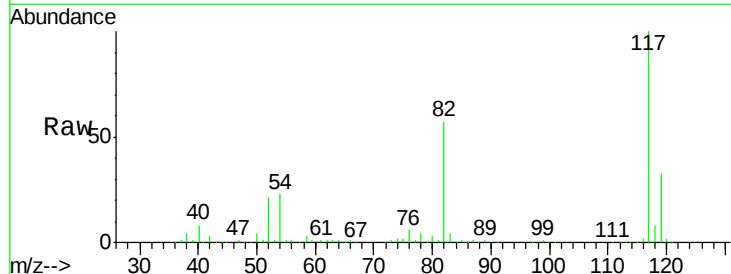
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055049.D
Acq: 15 Apr 2019 18:15

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
117	100		
82	57.4	44.6	66.8
119	33.0	25.5	38.3

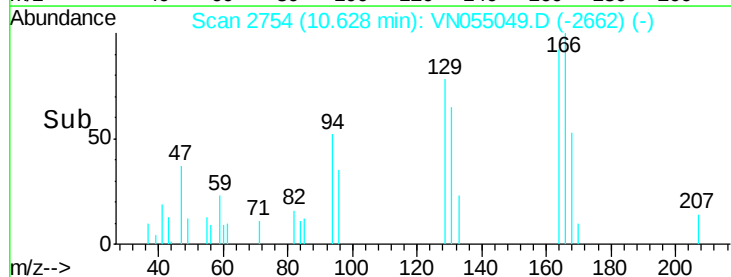
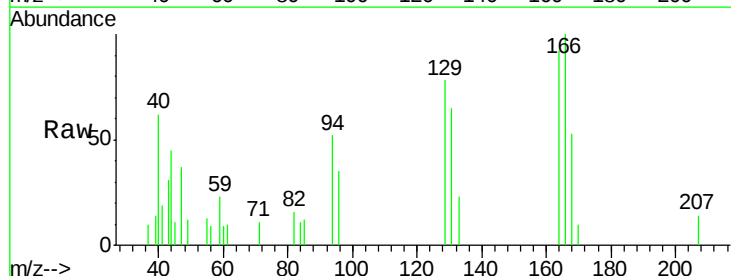
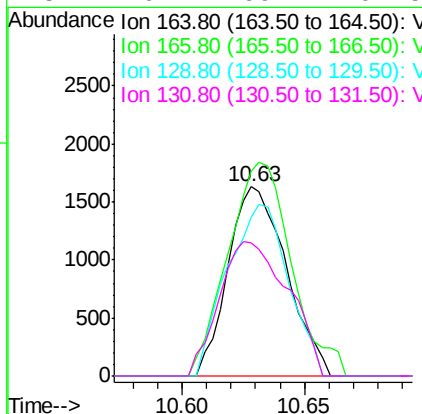
Manual Integrations
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#64
Tetrachloroethene
Concen: 0.612 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. -0.00 min
Lab File: VN055049.D
Acq: 15 Apr 2019 18:15

Tgt Ion	Ratio	Lower	Upper
164	100		
166	108.3	100.0	150.0
129	84.0	72.0	108.0
131	70.7	69.7	104.5





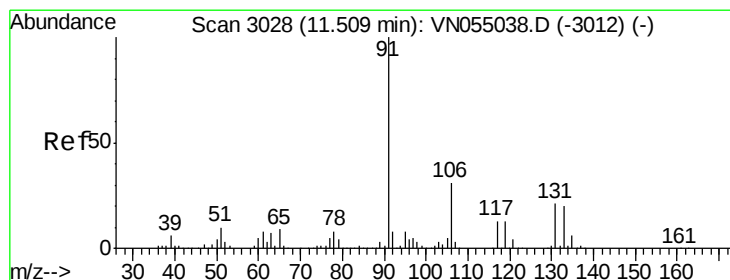
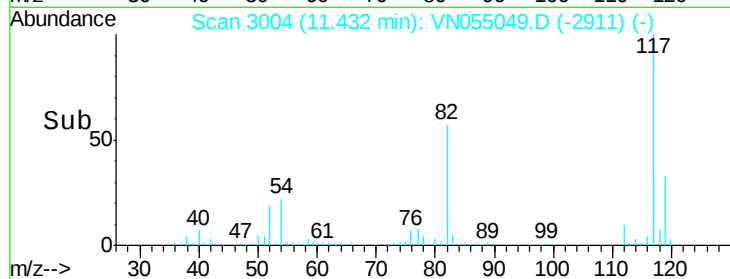
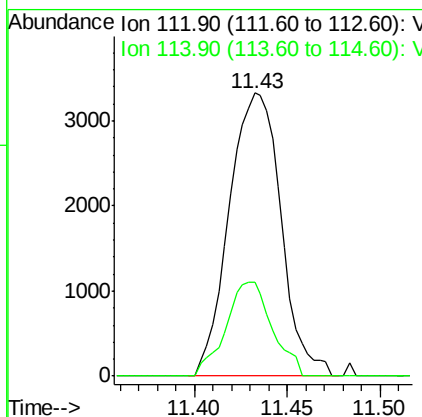
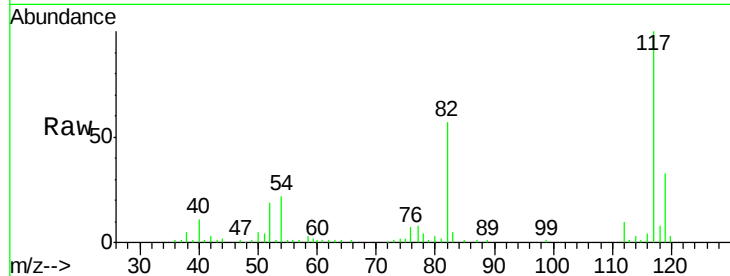
#65
Chlorobenzene
Concen: 0.592 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN055049.D
Acq: 15 Apr 2019 18:15

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT2-2019

Tot Ion:112 Resp: 6471
Ion Ratio Lower Upper
112 100
114 33.1 25.3 37.9

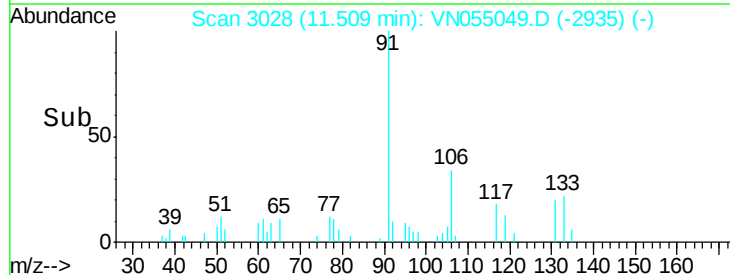
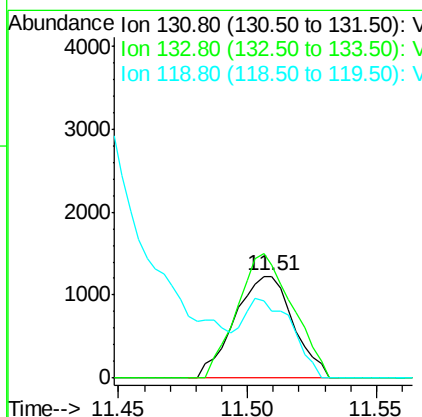
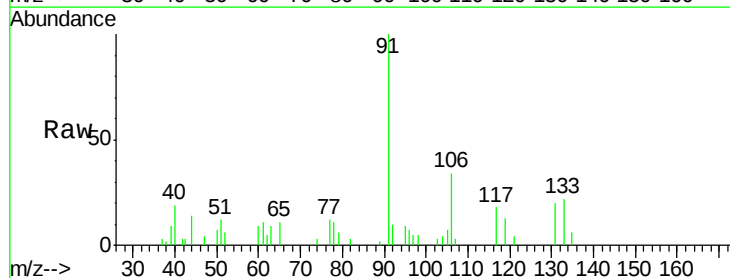
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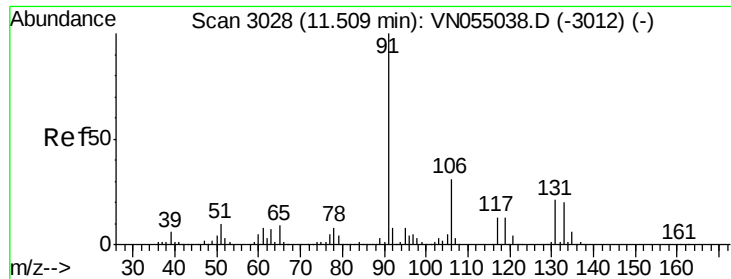
MMDadoda
4/17/2019 2:06:00 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 0.484 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN055049.D
Acq: 15 Apr 2019 18:15

Tgt Ion:131 Resp: 1945
Ion Ratio Lower Upper
131 100
133 115.9 47.8 143.3
119 0.0 33.6 100.6#





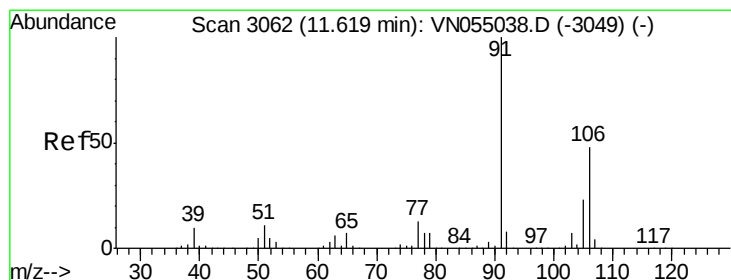
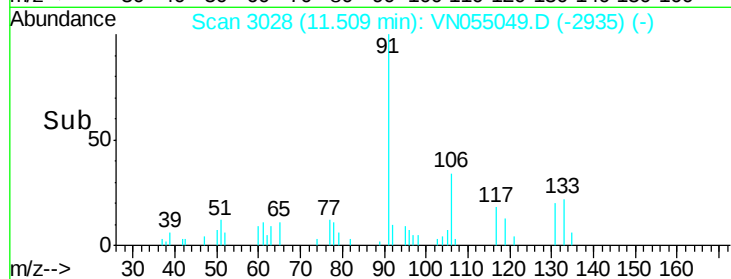
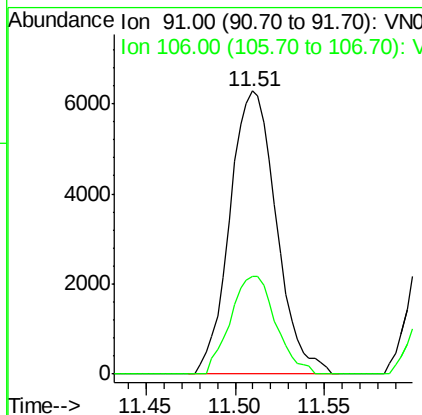
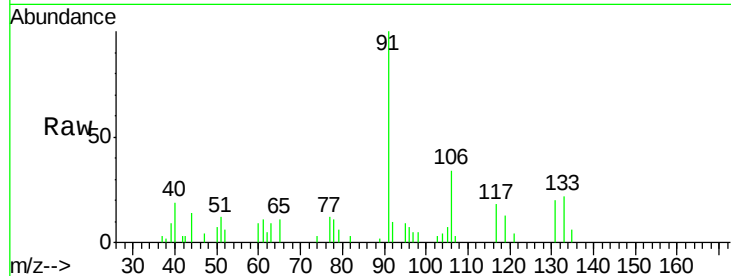
#67
Ethyl Benzene
Concen: 0.585 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN055049.D
Acq: 15 Apr 2019 18:15

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT2-2019

Tot Ion: 91 Resp: 11427
Ion Ratio Lower Upper
91 100
106 34.4 24.3 36.5

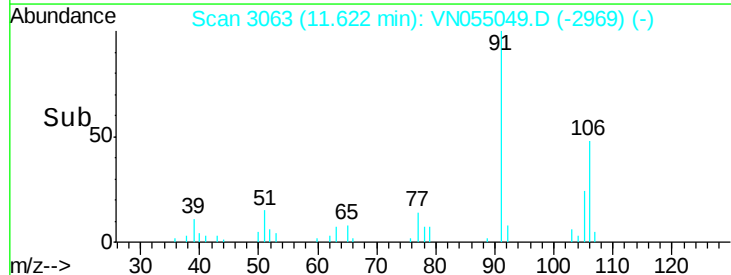
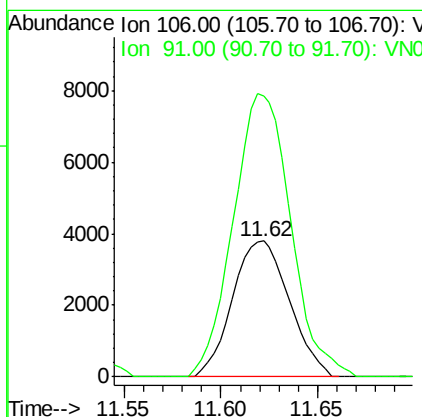
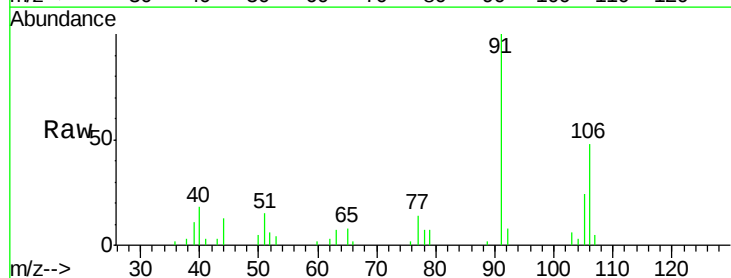
Manual Integrations
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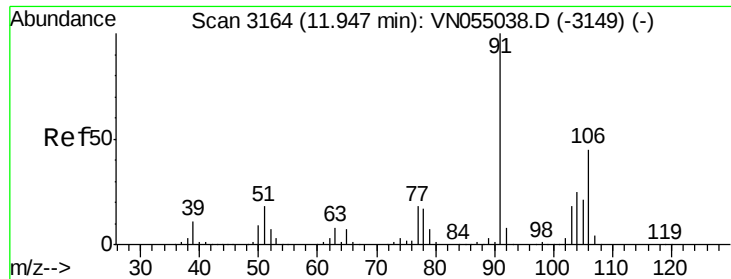
MMDadoda
4/17/2019 2:06:00 PM



#68
m/p-Xylenes
Concen: 1.100 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN055049.D
Acq: 15 Apr 2019 18:15

Tgt Ion: 106 Resp: 7774
Ion Ratio Lower Upper
106 100
91 210.4 165.9 248.9





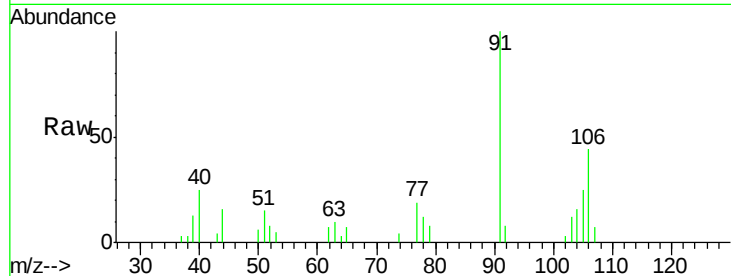
#69
o-Xylene
Concen: 0.592 ug/l
RT: 11.94 min Scan# 3163
Delta R.T. -0.00 min
Lab File: VN055049.D
Acq: 15 Apr 2019 18:15

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT2-2019

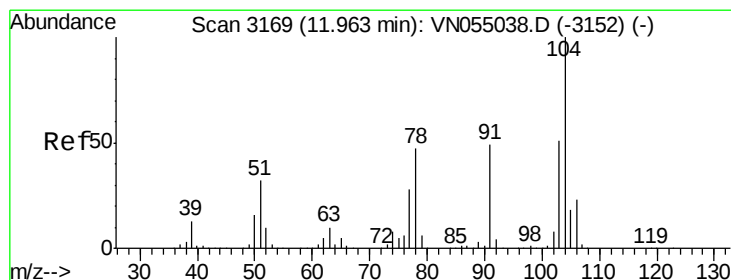
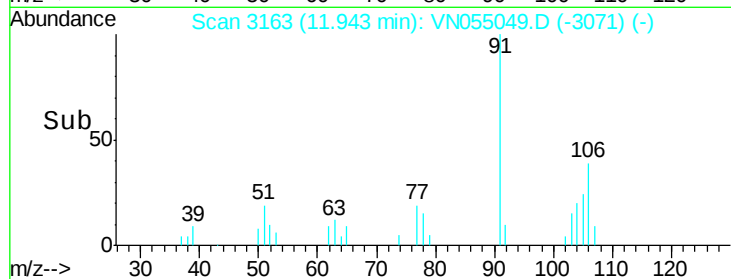
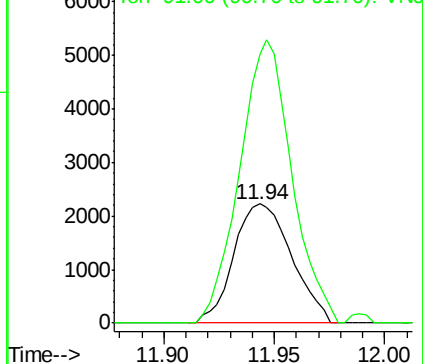
Tot Ion:106 Resp: 4049
Ion Ratio Lower Upper
106 100
91 215.1 109.9 329.8

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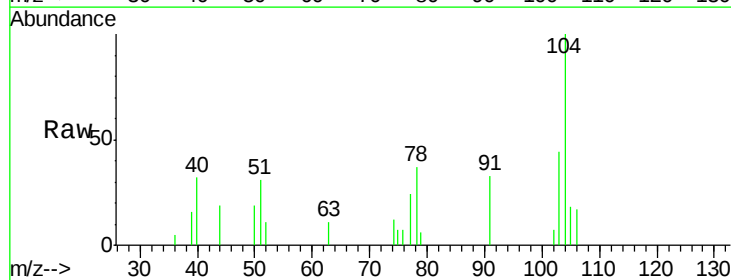


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN

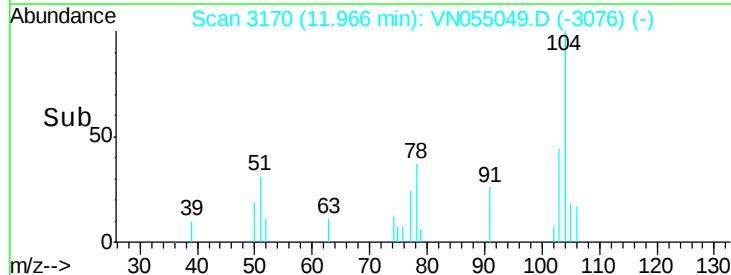
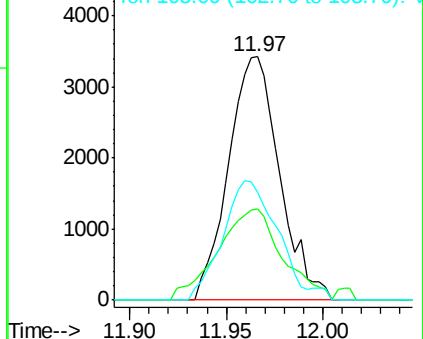


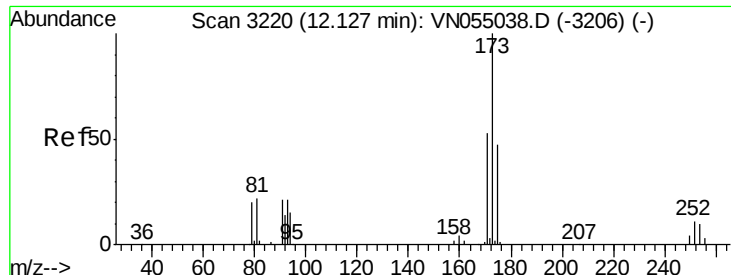
#70
Styrene
Concen: 0.568 ug/l
RT: 11.97 min Scan# 3170
Delta R.T. 0.00 min
Lab File: VN055049.D
Acq: 15 Apr 2019 18:15

Tgt Ion:104 Resp: 6292
Ion Ratio Lower Upper
104 100
78 47.3 40.3 60.5
103 52.9 44.3 66.5



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VN
Ion 103.00 (102.70 to 103.70): V





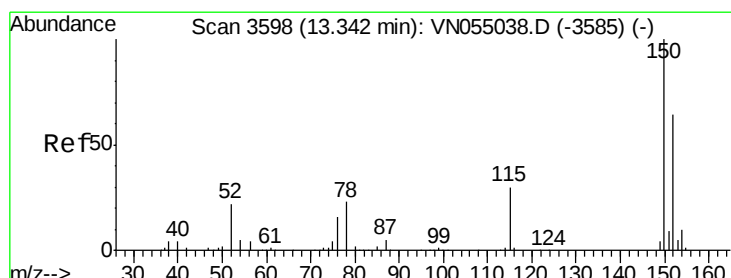
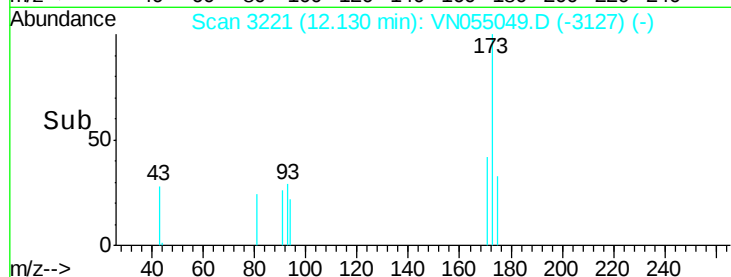
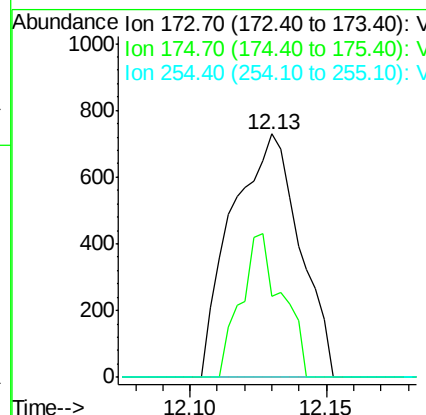
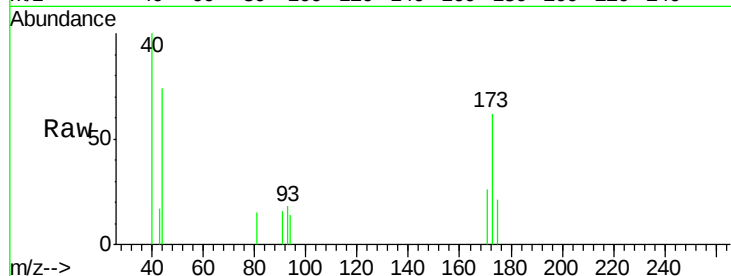
#71
Bromoform
Concen: 0.545 ug/l
RT: 12.13 min Scan# 3221
Delta R.T. 0.00 min
Lab File: VN055049.D
Acq: 15 Apr 2019 18:15

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
173	100		
175	35.9	24.3	73.0
254	0.0	0.1	0.1#

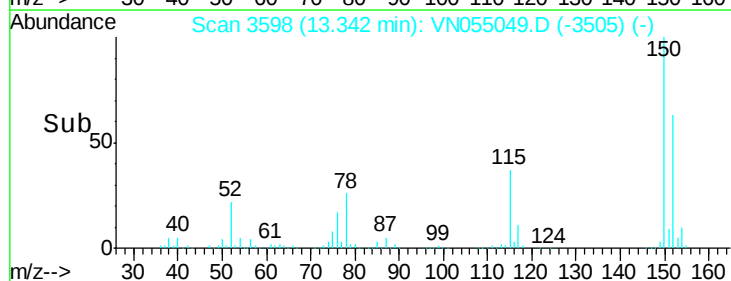
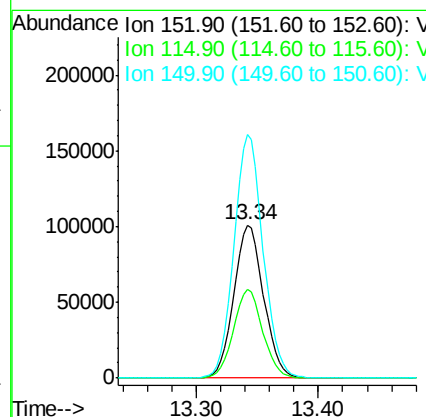
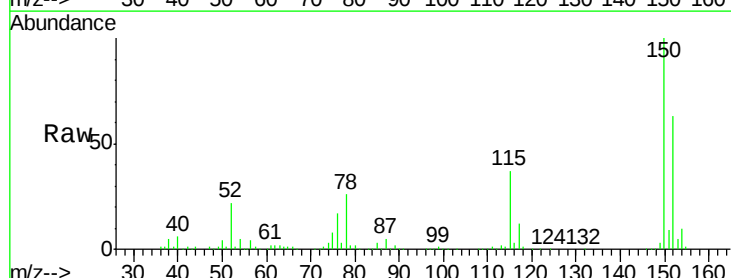
Manual Integrations
APPROVED

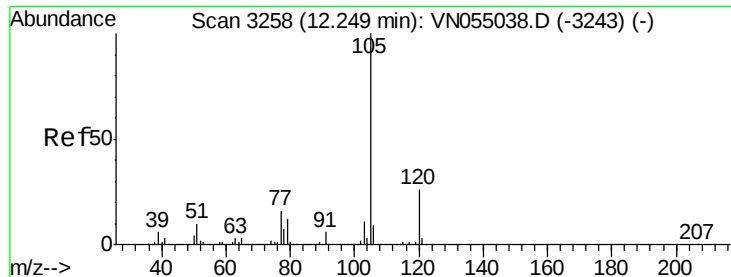
MMDadoda
4/17/2019 2:06:00 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN055049.D
Acq: 15 Apr 2019 18:15

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.3	28.5	85.6
150	156.0	0.0	347.2





#73

Isopropylbenzene

Concen: 0.653 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN055049.D

Acq: 15 Apr 2019 18:15

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion: 105 Resp: 9927

Ion Ratio Lower Upper

105 100

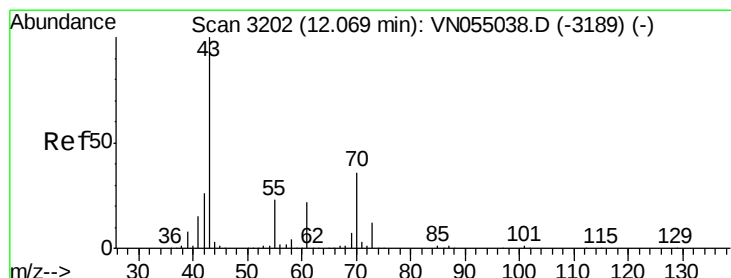
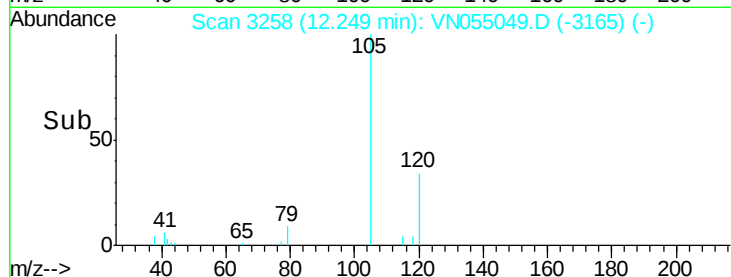
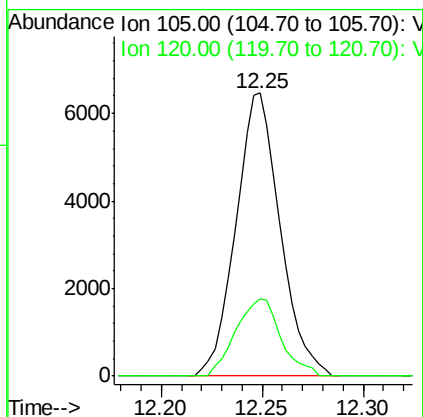
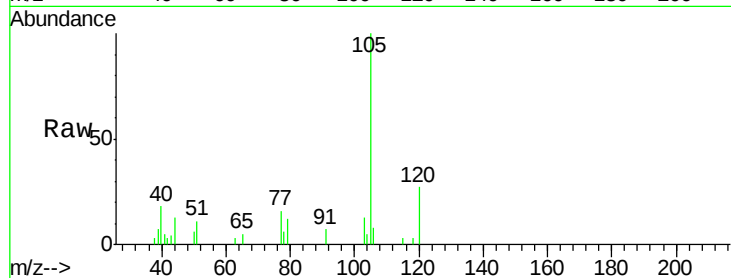
120 27.7 13.3 39.9

Manual Integrations

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#74

N-ethyl acetate

Concen: 0.471 ug/l

RT: 12.07 min Scan# 3203

Delta R.T. 0.00 min

Lab File: VN055049.D

Acq: 15 Apr 2019 18:15

Tgt Ion: 43 Resp: 2014

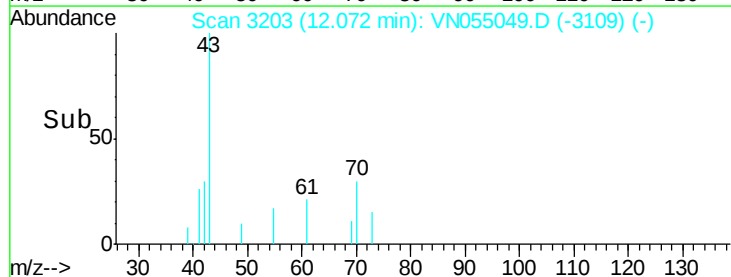
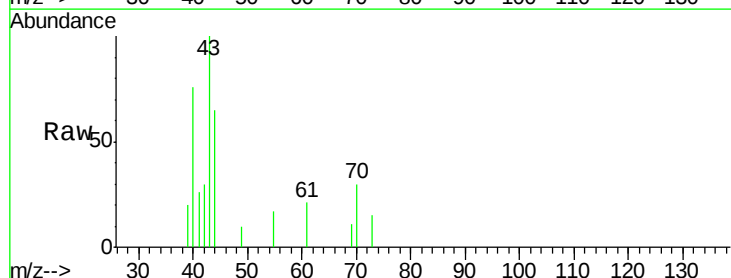
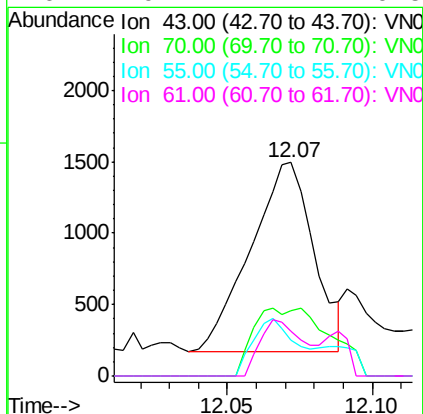
Ion Ratio Lower Upper

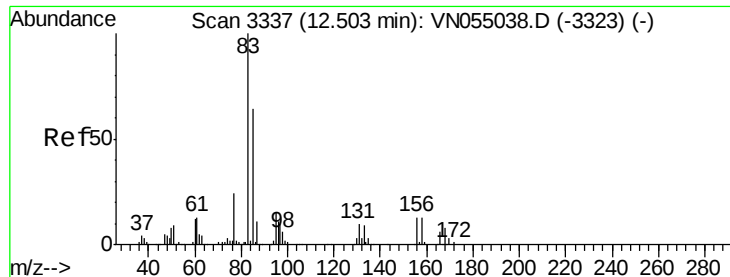
43 100

70 18.1 29.4 44.0#

55 20.8 19.0 28.4

61 19.2 17.7 26.5





#75

1,1,2,2-Tetrachloroethane

Concen: 0.700 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN055049.D

Acq: 15 Apr 2019 18:15

Instrument :

MSVOA_N

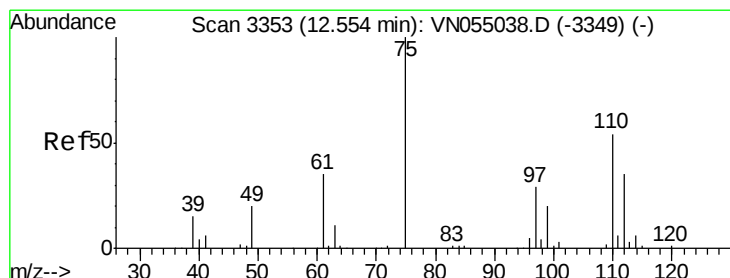
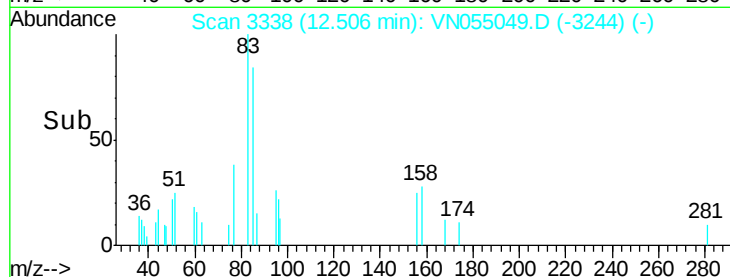
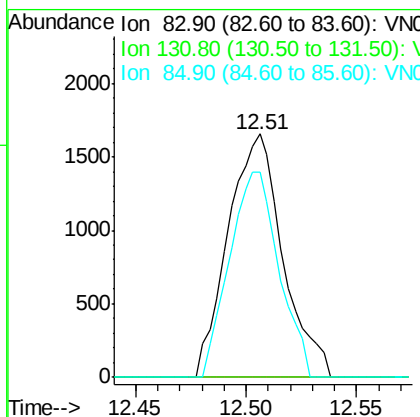
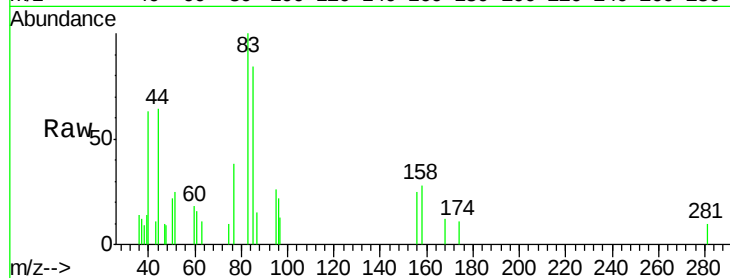
ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion	83	Resp	2847
Ion	Ratio	Lower	Upper
83	100		
131	0.0	5.0	15.0#
85	76.1	32.3	96.9

Manual Integrations
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MMDadoda
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#76

1,2,3-Trichloropropane

Concen: 0.635 ug/l m

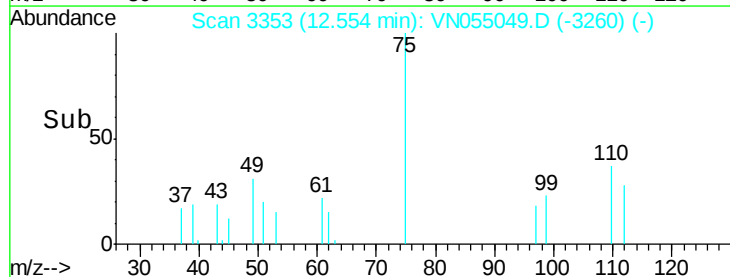
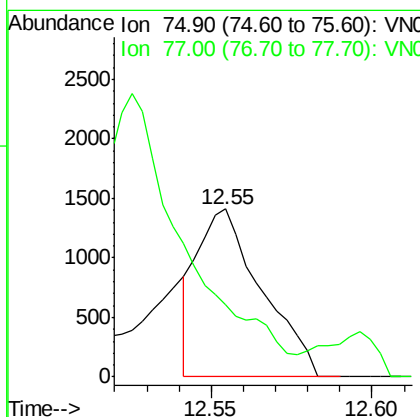
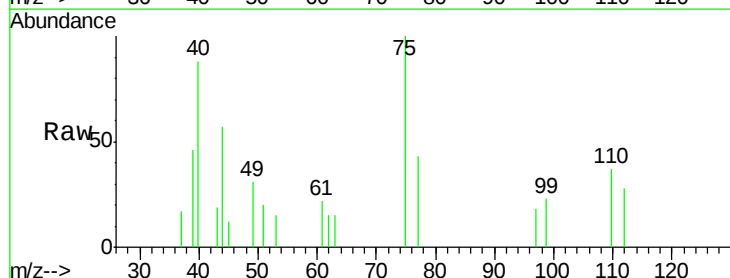
RT: 12.55 min Scan# 3353

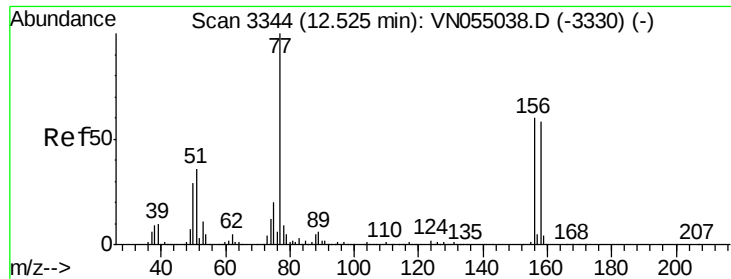
Delta R.T. 0.00 min

Lab File: VN055049.D

Acq: 15 Apr 2019 18:15

Tgt Ion	75	Resp	1955
Ion	Ratio	Lower	Upper
75	100		
77	84.7	0.0	0.0#





#77

Bromobenzene

Concen: 0.754 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN055049.D

Acq: 15 Apr 2019 18:15

Instrument :

MSVOA_N

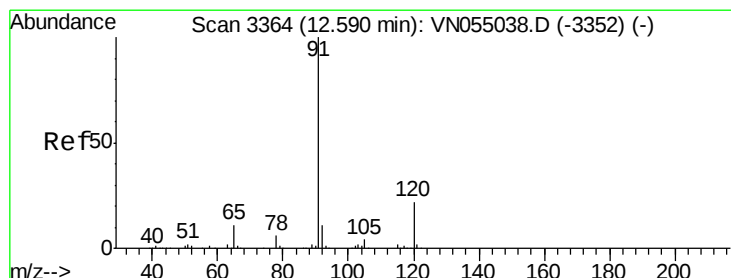
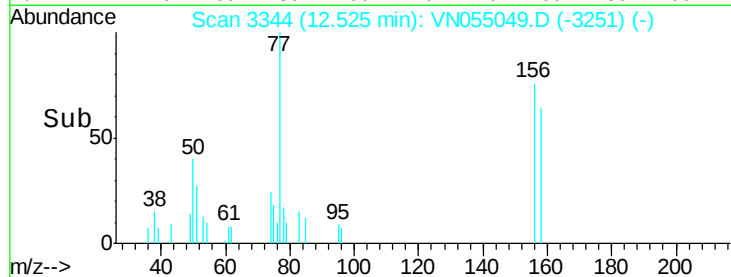
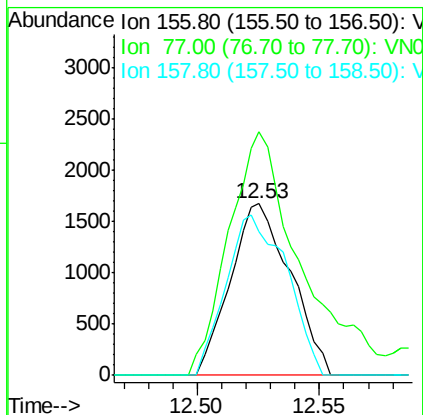
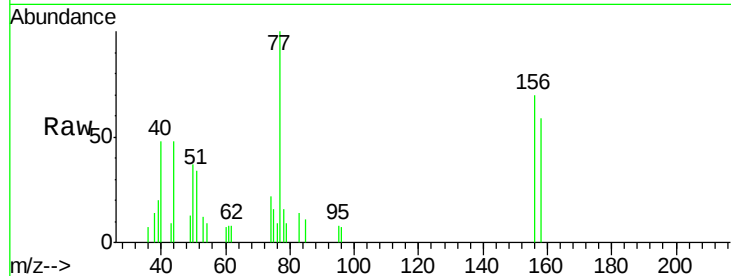
ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion:	156	Resp:	2859
Ion	Ratio	Lower	Upper
156	100		
77	170.2	97.2	291.5
158	95.1	48.6	145.9

Manual Integrations
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#78

n-propylbenzene

Concen: 0.631 ug/l

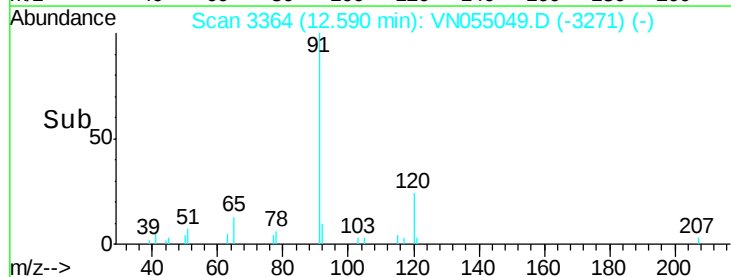
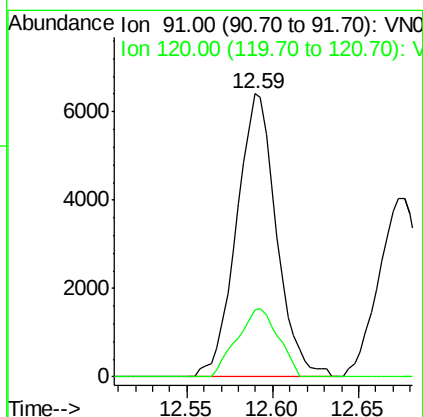
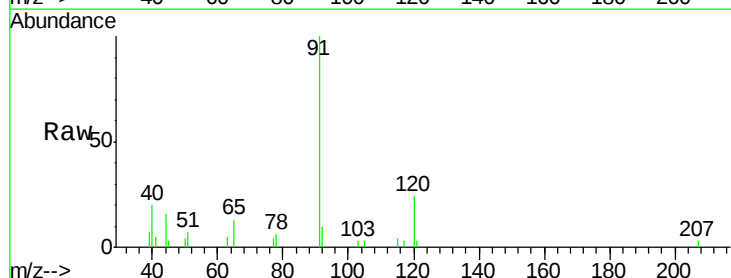
RT: 12.59 min Scan# 3364

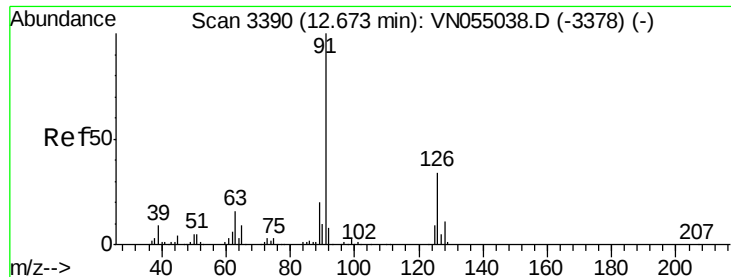
Delta R.T. 0.00 min

Lab File: VN055049.D

Acq: 15 Apr 2019 18:15

Tgt Ion:	91	Resp:	10362
Ion	Ratio	Lower	Upper
91	100		
120	24.7	11.2	33.5





#79

2-Chlorotoluene

Concen: 0.690 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN055049.D

Acq: 15 Apr 2019 18:15

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion: 91 Resp: 7071

Ion Ratio Lower Upper

91 100

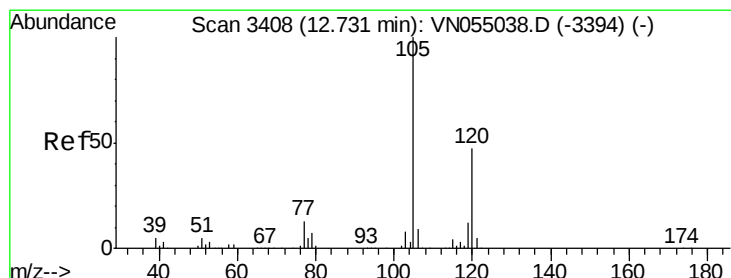
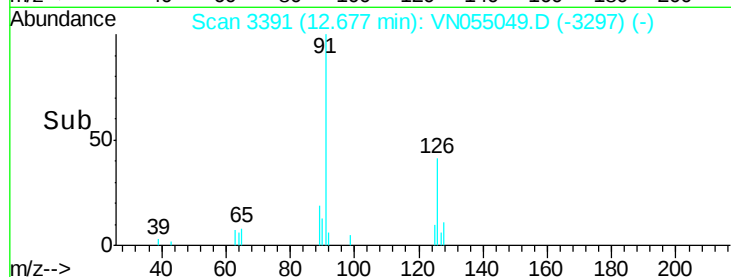
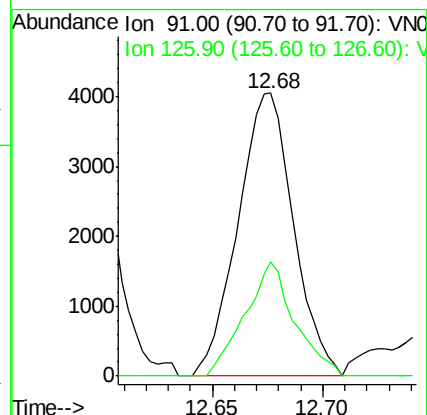
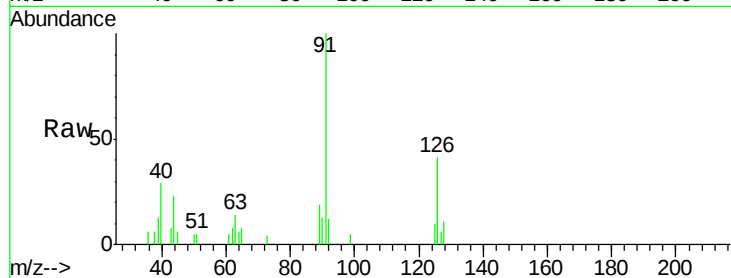
126 36.1 17.1 51.2

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 0.609 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN055049.D

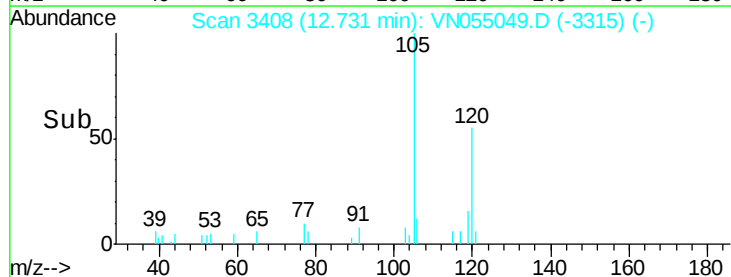
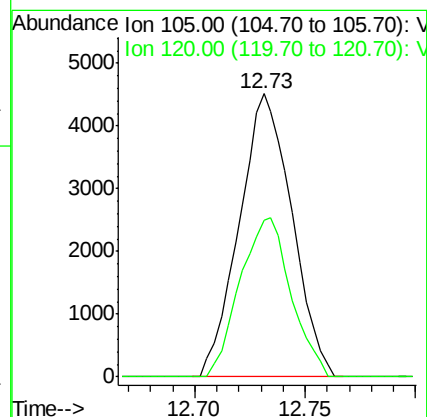
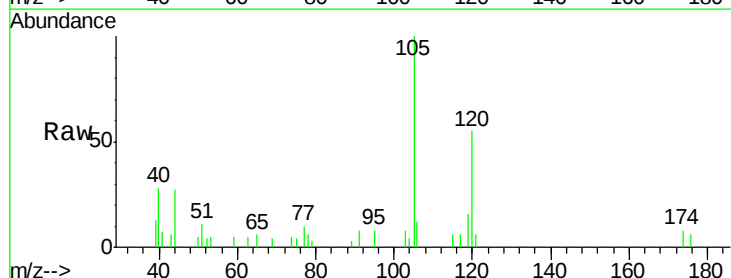
Acq: 15 Apr 2019 18:15

Tgt Ion: 105 Resp: 7467

Ion Ratio Lower Upper

105 100

120 54.4 24.3 72.8





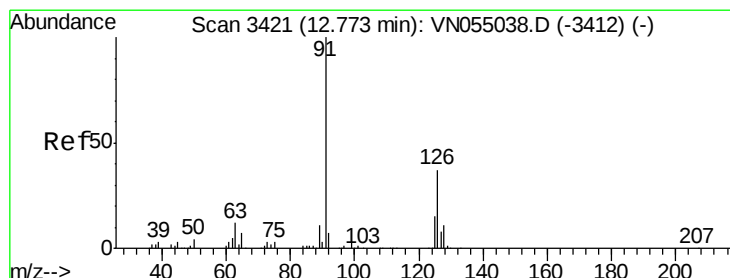
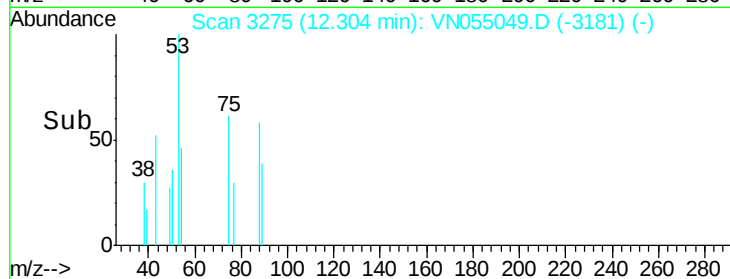
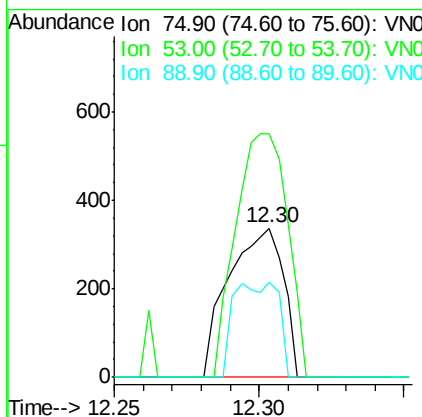
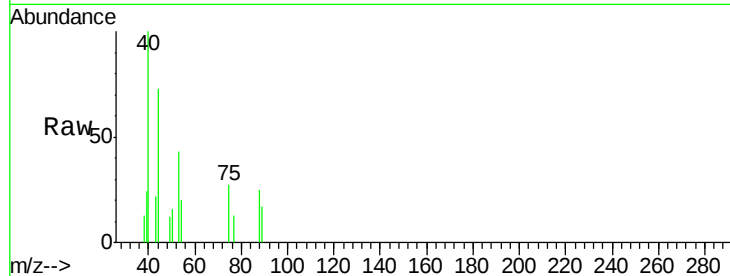
#81
trans-1,4-Dichloro-2-butene
Concen: 0.571 ug/l m
RT: 12.30 min Scan# 3275
Delta R.T. 0.00 min
Lab File: VN055049.D
Acq: 15 Apr 2019 18:15

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
75	100		
53	14.1	96.3	144.5#
89	0.0	38.6	57.8#

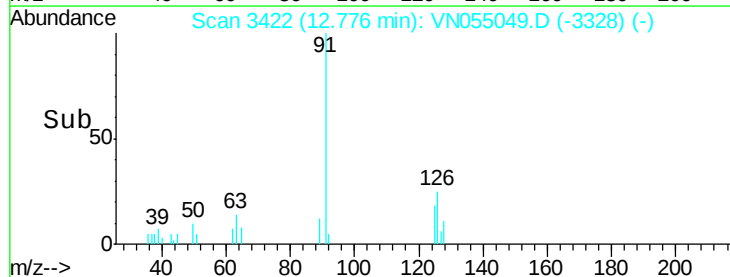
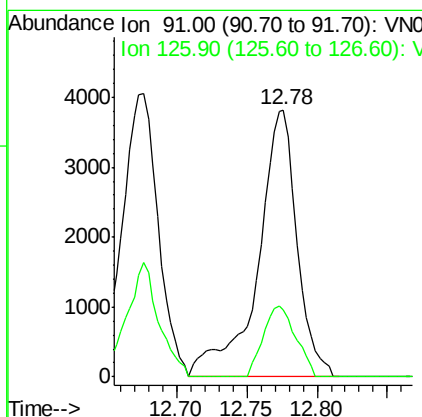
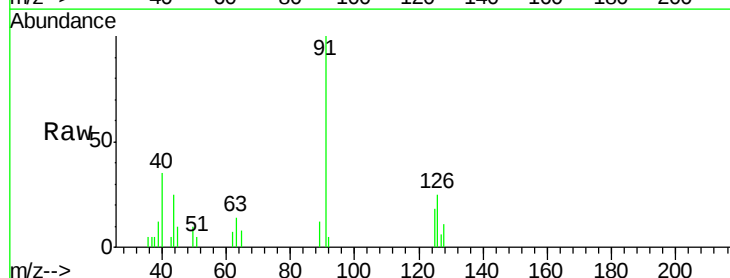
Manual Integrations
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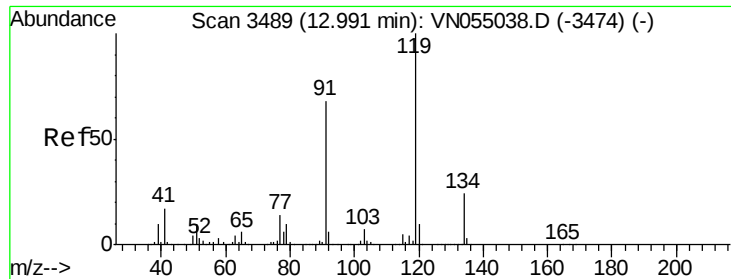
MMDadoda
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#82
4-Chlorotoluene
Concen: 0.773 ug/l
RT: 12.78 min Scan# 3422
Delta R.T. 0.00 min
Lab File: VN055049.D
Acq: 15 Apr 2019 18:15

Tgt Ion	Ratio	Lower	Upper
91	100		
126	21.8	16.4	49.2





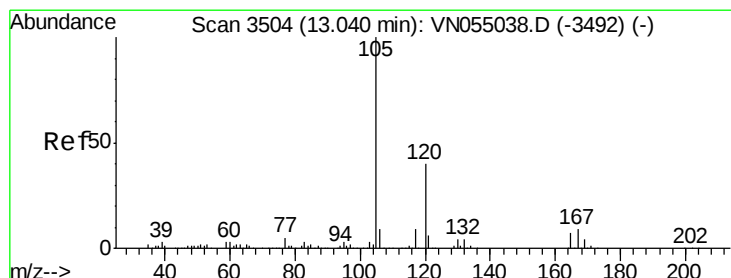
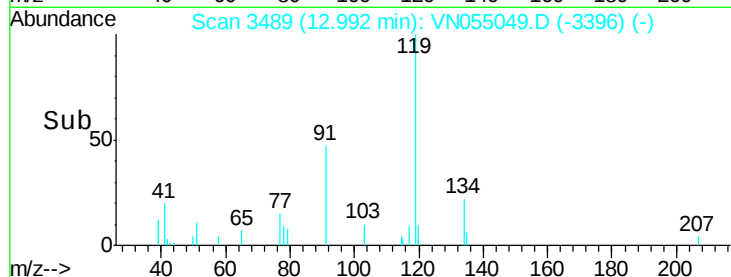
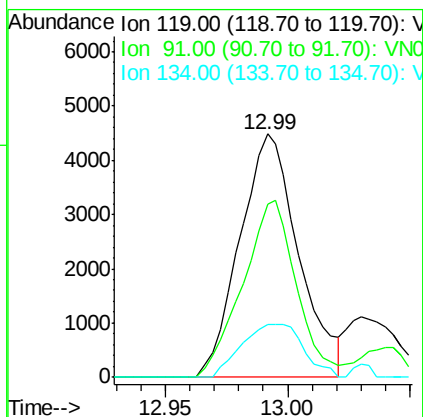
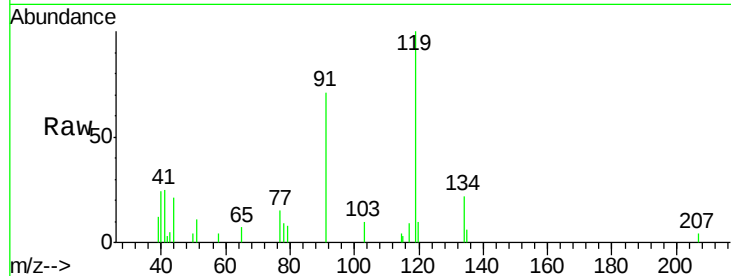
#83
tert-Butylbenzene
Concen: 0.722 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. 0.00 min
Lab File: VN055049.D
Acq: 15 Apr 2019 18:15

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
119	100		
91	66.3	33.3	99.8
134	23.0	12.3	36.9

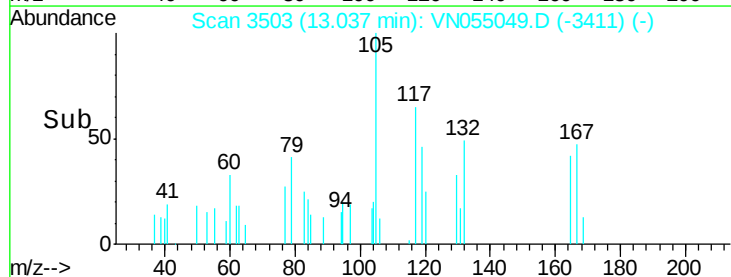
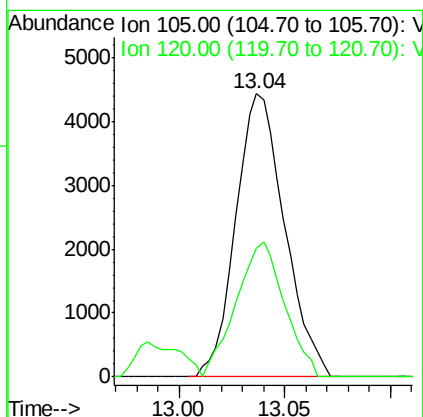
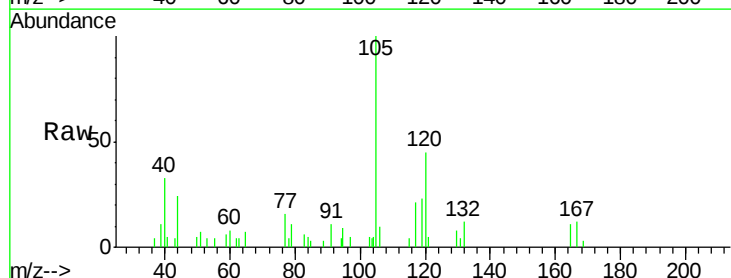
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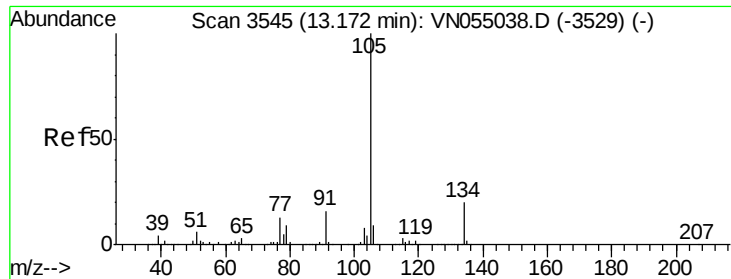
MMDadoda
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#84
1,2,4-Trimethylbenzene
Concen: 0.612 ug/l
RT: 13.04 min Scan# 3503
Delta R.T. -0.00 min
Lab File: VN055049.D
Acq: 15 Apr 2019 18:15

Tgt Ion	Ratio	Lower	Upper
105	100		
120	47.1	22.4	67.3





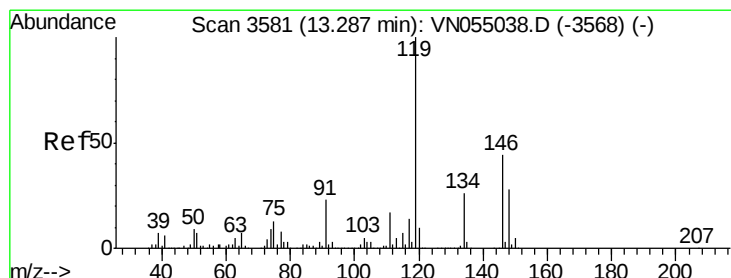
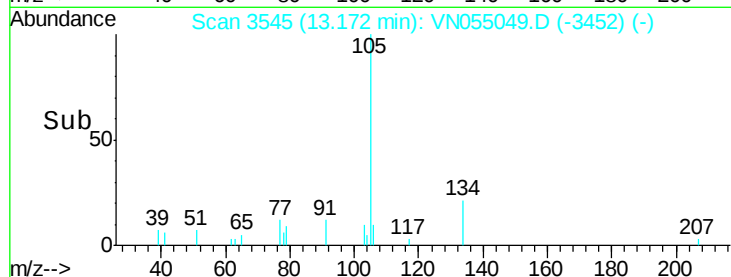
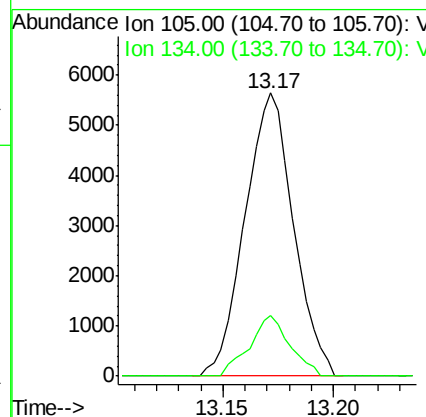
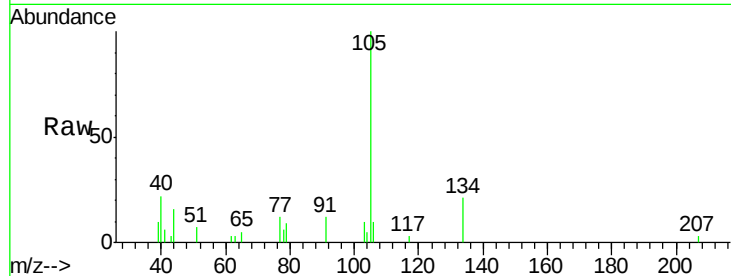
#85
 sec-Butylbenzene
 Concen: 0.651 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN055049.D
 Acq: 15 Apr 2019 18:15

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
105	100		
134	17.7	9.8	29.3

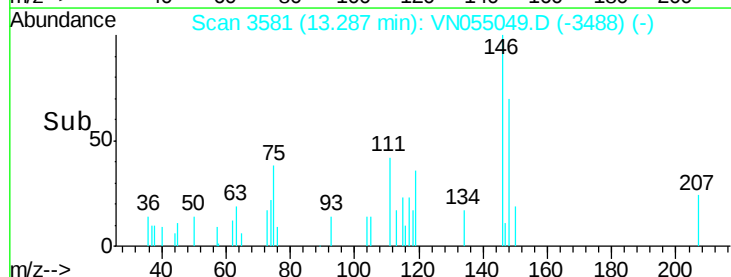
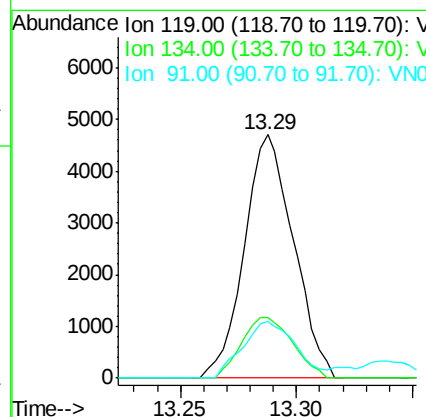
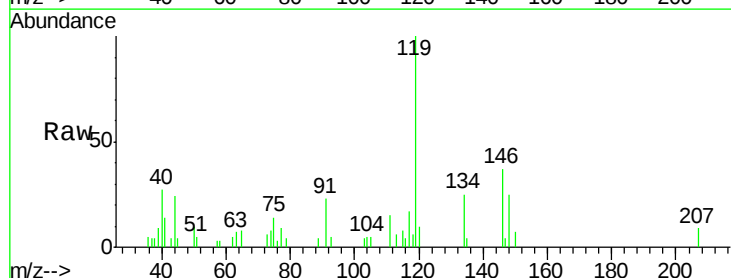
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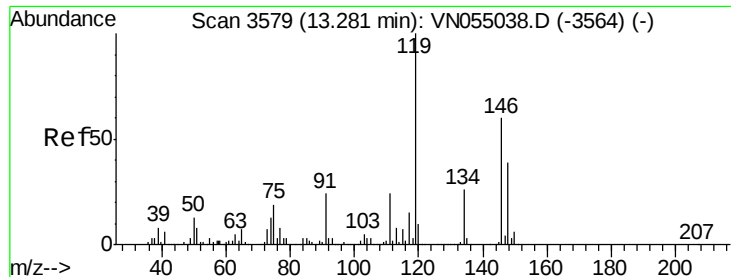
MMDadoda
 4/17/2019 2:06:00 PM



#86
 p-Isopropyltoluene
 Concen: 0.613 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN055049.D
 Acq: 15 Apr 2019 18:15

Tgt Ion	Ratio	Lower	Upper
119	100		
134	25.8	13.2	39.5
91	25.1	11.7	35.1





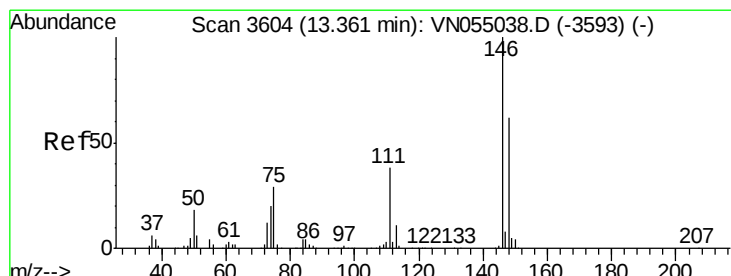
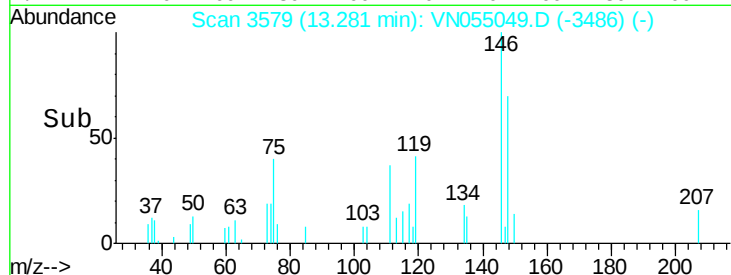
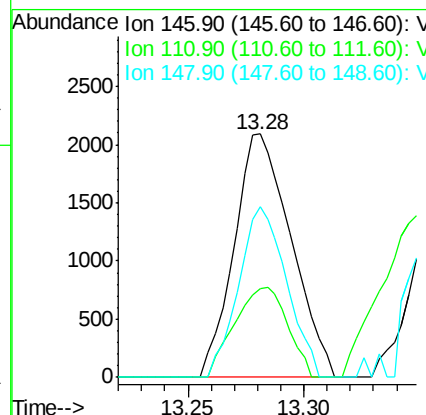
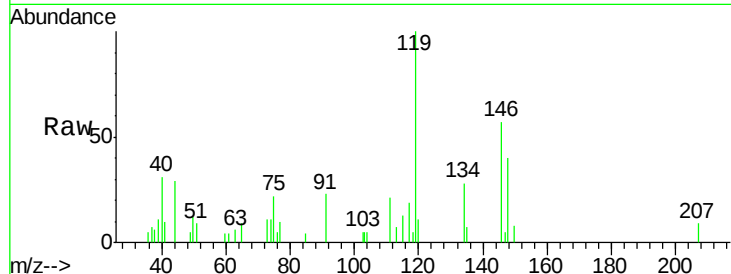
#87
 1,3-Dichlorobenzene
 Concen: 0.618 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. 0.00 min
 Lab File: VN055049.D
 Acq: 15 Apr 2019 18:15

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	34.4	19.5	58.5
148	58.9	31.6	94.7

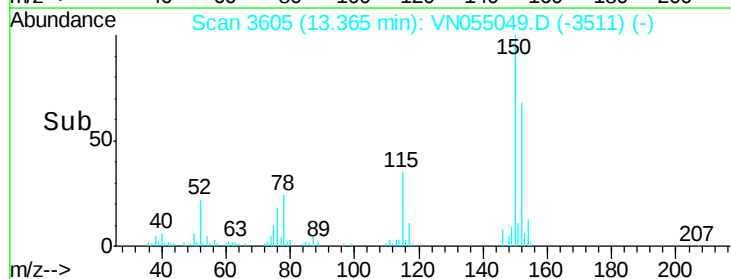
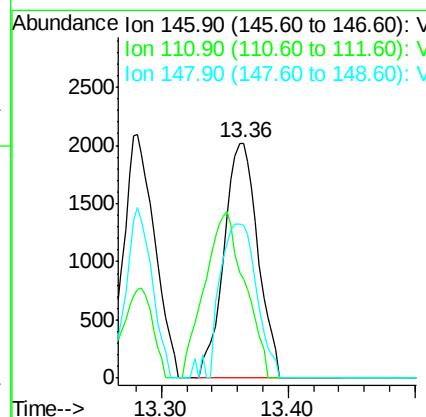
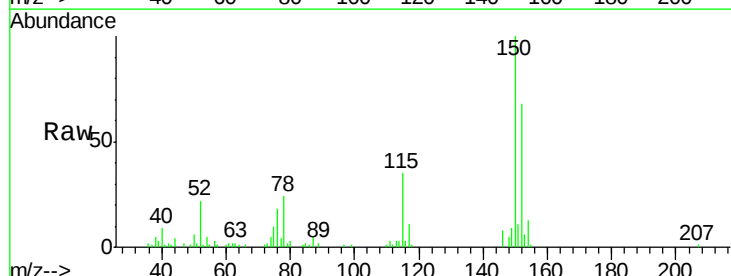
Manual Integrations
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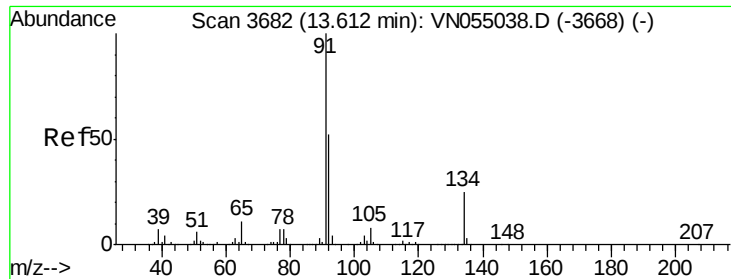
MMDadoda
 4/17/2019 2:06:00 PM



#88
 1,4-Dichlorobenzene
 Concen: 0.687 ug/l m
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN055049.D
 Acq: 15 Apr 2019 18:15

Tgt Ion	Ratio	Lower	Upper
146	100		
111	32.5	18.8	56.4
148	55.6	32.4	97.2





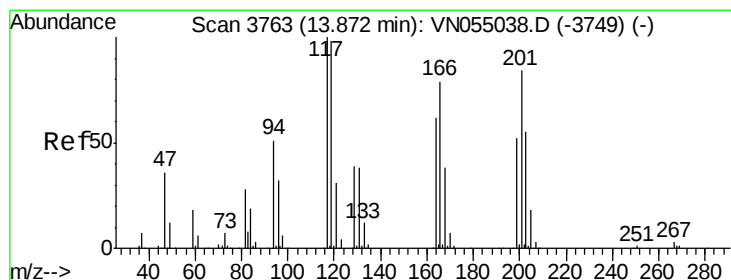
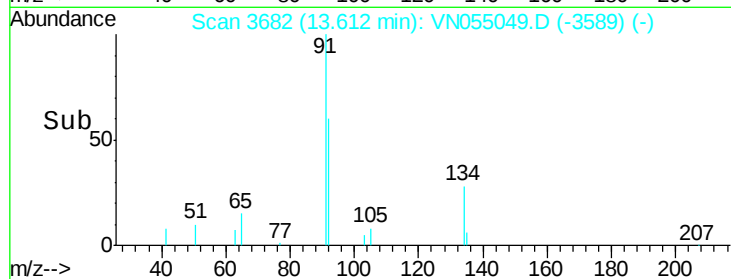
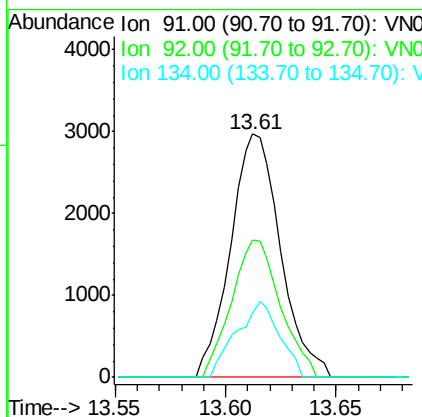
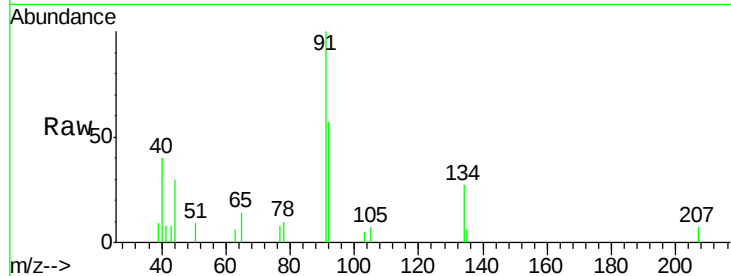
#89
n-Butylbenzene
Concen: 0.554 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. 0.00 min
Lab File: VN055049.D
Acq: 15 Apr 2019 18:15

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
91	100		
92	55.1	25.9	77.7
134	27.0	12.8	38.3

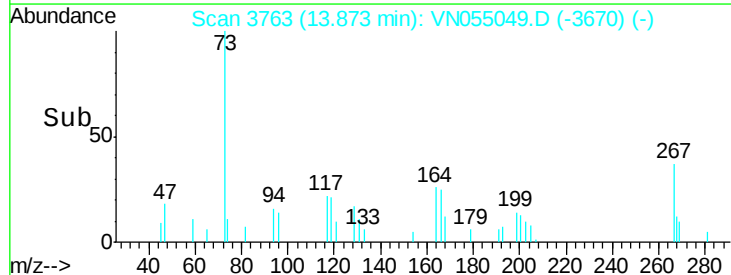
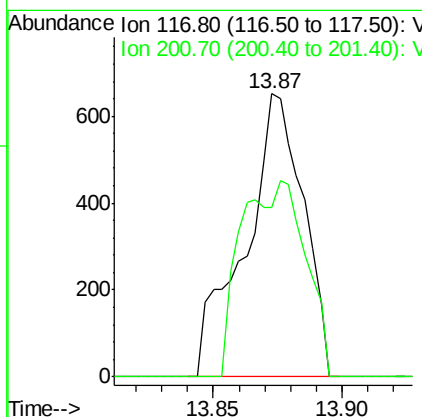
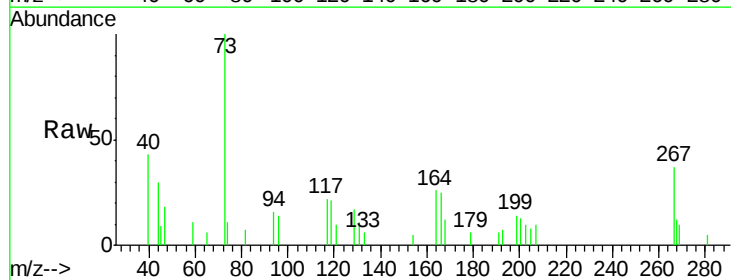
Manual Integrations
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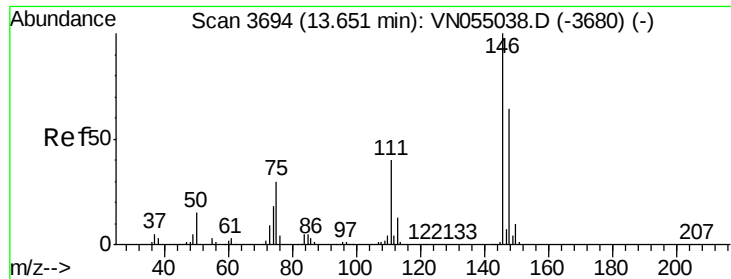
MMDadoda
4/17/2019 2:06:00 PM



#90
Hexachloroethane
Concen: 0.558 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. 0.00 min
Lab File: VN055049.D
Acq: 15 Apr 2019 18:15

Tgt Ion	Ratio	Lower	Upper
117	100		
201	33.3	43.4	130.2





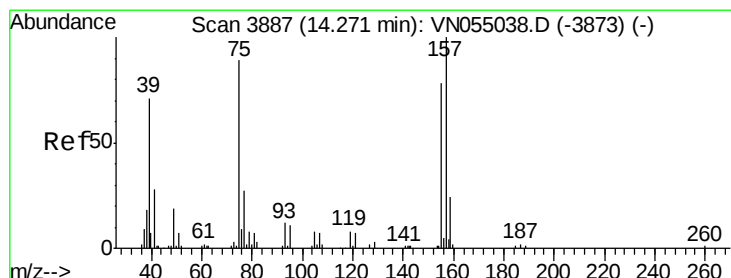
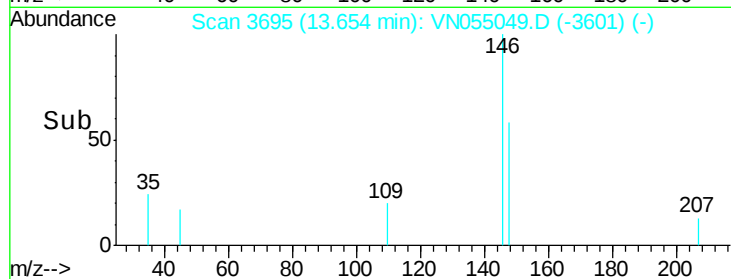
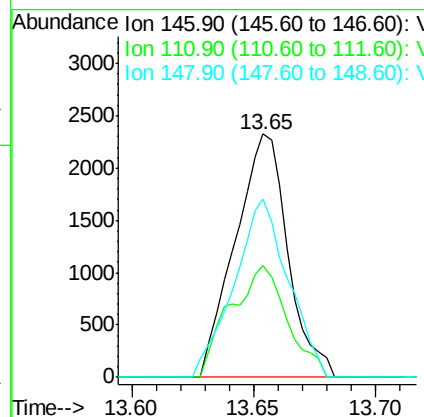
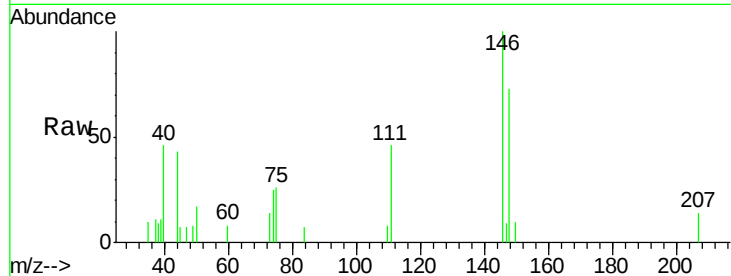
#91
 1,2-Dichlorobenzene
 Concen: 0.601 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN055049.D
 Acq: 15 Apr 2019 18:15

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	49.7	20.3	60.9
148	75.3	32.2	96.6

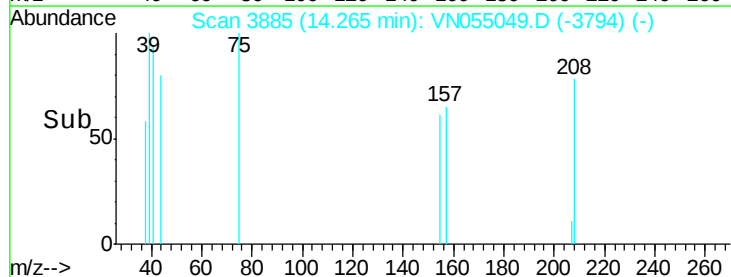
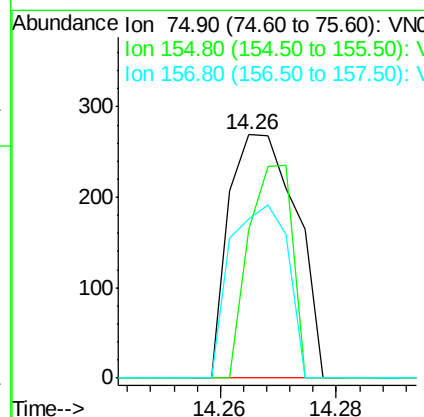
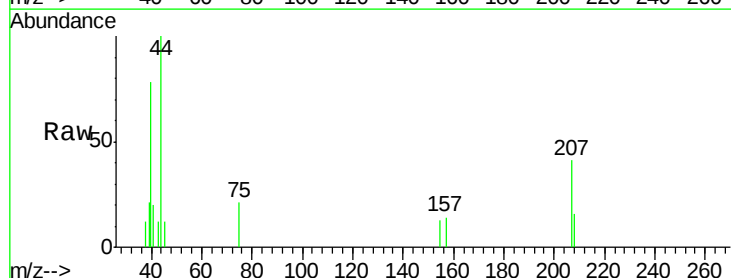
Manual Integrations
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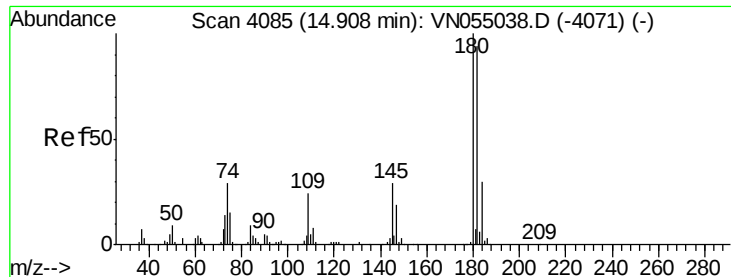
MMDadoda
 4/17/2019 2:06:00 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.431 ug/l
 RT: 14.26 min Scan# 3885
 Delta R.T. -0.01 min
 Lab File: VN055049.D
 Acq: 15 Apr 2019 18:15

Tgt Ion	Ratio	Lower	Upper
75	100		
155	56.5	42.0	126.0
157	60.6	52.1	156.4





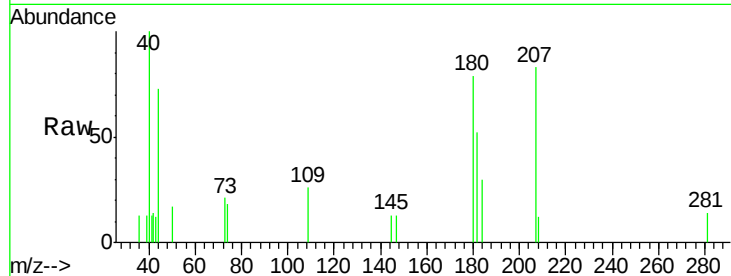
#93
 1,2,4-Trichlorobenzene
 Concen: 0.752 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN055049.D
 Acq: 15 Apr 2019 18:15

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT2-2019

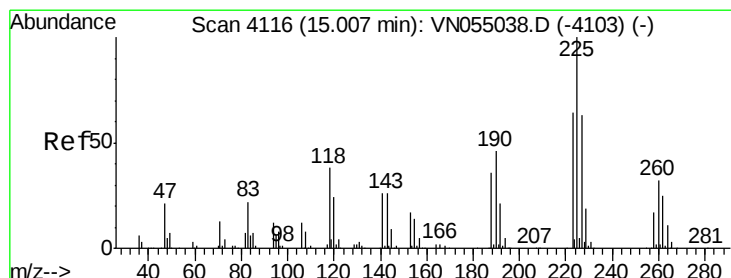
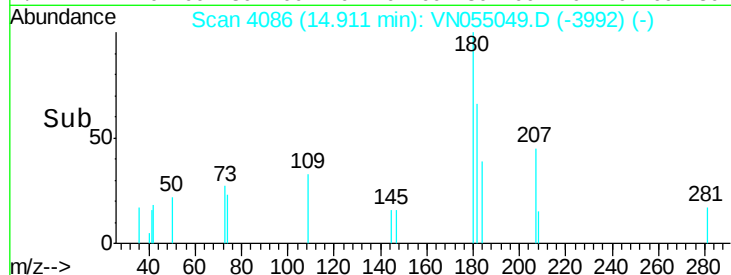
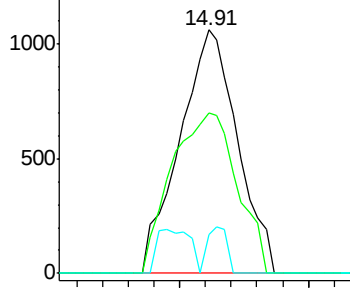
Tot Ion	Ratio	Lower	Upper
180	100		
182	74.9	47.5	142.6
145	6.5	14.2	42.8#

Manual Integrations
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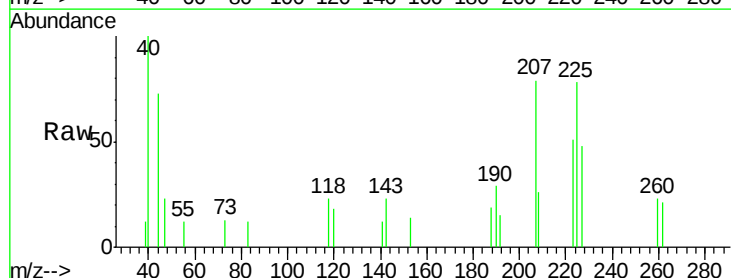


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

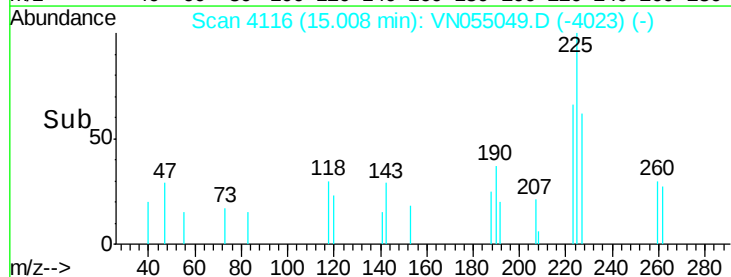
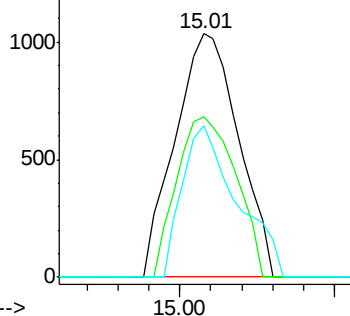


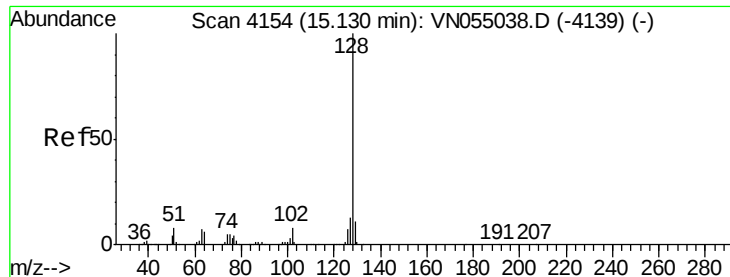
#94
 Hexachlorobutadiene
 Concen: 0.826 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN055049.D
 Acq: 15 Apr 2019 18:15

Tgt Ion	Ratio	Lower	Upper
225	100		
223	61.5	31.4	94.0
227	53.7	32.6	97.7



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 0.623 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN055049.D

Acq: 15 Apr 2019 18:15

Instrument :

MSVOA_N

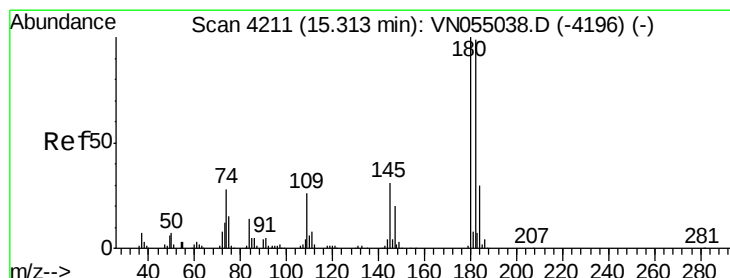
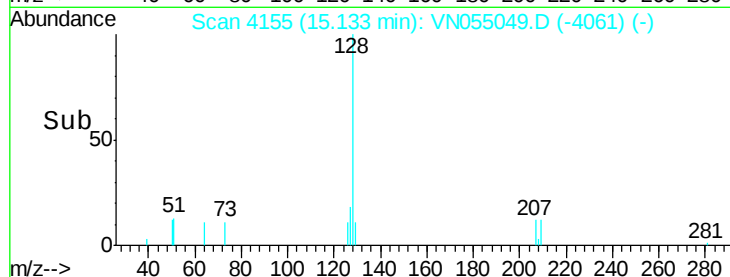
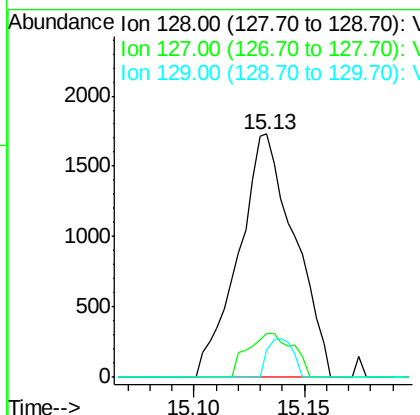
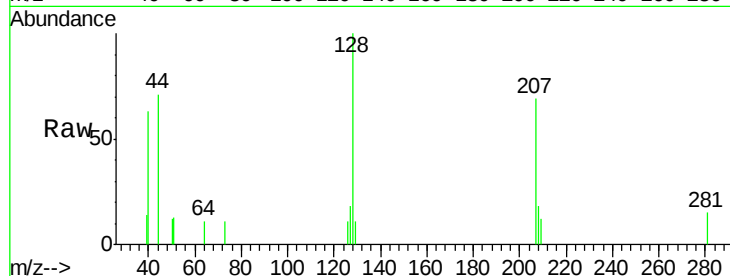
ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion:	128	Resp:	3056
Ion Ratio	Lower	Upper	
128	100		
127	14.8	10.1	15.1
129	7.3	8.8	13.2#

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#96

1,2,3-Trichlorobenzene

Concen: 0.762 ug/l

RT: 15.32 min Scan# 4214

Delta R.T. 0.01 min

Lab File: VN055049.D

Acq: 15 Apr 2019 18:15

Tgt Ion:	180	Resp:	1703
Ion Ratio	Lower	Upper	
180	100		
182	91.3	48.0	144.0
145	14.2	15.3	45.9#

