

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071519\
 Data File : VN056707.D
 Acq On : 15 Jul 2019 13:20
 Operator : JC/SP
 Sample : K3591-07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2019

Manual Integrations
 APPROVED

MMDadoda
 7/17/2019 1:31:32 AM

Quant Time: Jul 16 07:03:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 06:46:10 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	330569	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	529815	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	442567	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	148349	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	193112	52.81	ug/l	0.00
Spiked Amount			Recovery	=	105.62%	
35) Dibromofluoromethane	7.59	113	163051	49.45	ug/l	0.00
Spiked Amount			Recovery	=	98.90%	
50) Toluene-d8	10.09	98	613617	48.19	ug/l	0.00
Spiked Amount			Recovery	=	96.38%	
62) 4-Bromofluorobenzene	12.40	95	179097	41.70	ug/l	0.00
Spiked Amount			Recovery	=	83.40%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	2132	0.687	ug/l	98
3) Chloromethane	2.06	50	3365	0.806	ug/l #	88
4) Vinyl Chloride	2.18	62	3111	0.774	ug/l	91
5) Bromomethane	2.56	94	2304	0.975	ug/l	94
6) Chloroethane	2.70	64	1925	0.822	ug/l #	86
7) Trichlorofluoromethane	3.01	101	3830	0.743	ug/l #	81
8) Diethyl Ether	3.42	74	1483m	0.738	ug/l	
9) 1,1,2-Trichlorotrifluoroet	3.76	101	2281	0.736	ug/l	94
10) Methyl Iodide	3.95	142	2107	0.508	ug/l #	80
11) Tert butyl alcohol	4.80	59	1905	3.130	ug/l #	73
12) 1,1-Dichloroethene	3.73	96	2255	0.726	ug/l	94
13) Acrolein	3.61	56	1271	5.754	ug/l	92
14) Allyl chloride	4.31	41	4154	0.773	ug/l	98
15) Acrylonitrile	5.00	53	6127m	3.486	ug/l	
16) Acetone	3.83	43	6505	3.860	ug/l	98
17) Carbon Disulfide	4.05	76	6220	0.757	ug/l #	92
18) Methyl Acetate	4.34	43	5893	1.304	ug/l #	89
19) Methyl tert-butyl Ether	5.05	73	7457	0.753	ug/l #	87
20) Methylene Chloride	4.55	84	3252	0.883	ug/l	94
21) trans-1,2-Dichloroethene	5.05	96	2356m	0.717	ug/l	
22) Diisopropyl ether	5.95	45	7513	0.708	ug/l #	71
23) Vinyl Acetate	5.91	43	26625	3.097	ug/l	100
24) 1,1-Dichloroethane	5.85	63	4534	0.737	ug/l #	83
25) 2-Butanone	6.85	43	8461	3.435	ug/l	99
26) 2,2-Dichloropropane	6.82	77	3425	0.772	ug/l	77
27) cis-1,2-Dichloroethene	6.84	96	2826	0.748	ug/l	87
28) Bromochloromethane	7.19	49	1939	0.671	ug/l #	97
29) Tetrahydrofuran	7.22	42	5942	3.698	ug/l #	84
30) Chloroform	7.37	83	4985	0.810	ug/l	98
31) Cyclohexane	7.66	56	9120	1.560	ug/l #	12
32) 1,1,1-Trichloroethane	7.58	97	3551	0.730	ug/l #	45
36) 1,1-Dichloropropene	7.79	75	3843	0.784	ug/l	92
37) Ethyl Acetate	6.94	43	1328	0.275	ug/l #	87
38) Carbon Tetrachloride	7.77	117	3277	0.713	ug/l	91

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	4193	0.693	ug/l	98
40) Benzene	8.04	78	11251	0.749	ug/l	97
41) Methacrylonitrile	7.18	41	1052	0.496	ug/l #	100
42) 1,2-Dichloroethane	8.12	62	3914	0.824	ug/l	89
43) Isopropyl Acetate	8.17	43	5244	0.690	ug/l #	81
44) Trichloroethene	8.84	130	3136	0.769	ug/l	96
45) 1,2-Dichloropropane	9.12	63	2676	0.670	ug/l	95
46) Dibromomethane	9.22	93	1788	0.723	ug/l	93
47) Bromodichloromethane	9.40	83	3084	0.656	ug/l #	90
48) Methyl methacrylate	9.20	41	2497	0.680	ug/l	89
49) 1,4-Dioxane	9.20	88	863	11.448	ug/l #	68
51) 4-Methyl-2-Pentanone	9.99	43	17394	3.535	ug/l	95
52) Toluene	10.16	92	6134	0.688	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	3140	0.640	ug/l #	85
54) cis-1,3-Dichloropropene	9.84	75	3429	0.603	ug/l #	94
55) 1,1,2-Trichloroethane	10.56	97	2623	0.701	ug/l	93
56) Ethyl methacrylate	10.43	69	3258	0.605	ug/l	96
57) 1,3-Dichloropropane	10.71	76	4259	0.697	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.70	63	7812	3.017	ug/l	98
59) 2-Hexanone	10.75	43	11865	3.361	ug/l	93
60) Dibromochloromethane	10.90	129	2356	0.640	ug/l	94
61) 1,2-Dibromoethane	11.00	107	2432	0.654	ug/l	97
64) Tetrachloroethene	10.63	164	2978	0.780	ug/l	94
65) Chlorobenzene	11.43	112	6785	0.750	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.51	131	2173	0.652	ug/l #	64
67) Ethyl Benzene	11.51	91	10936	0.688	ug/l	98
68) m/p-Xylenes	11.62	106	8037	1.352	ug/l	100
69) o-Xylene	11.95	106	4097	0.701	ug/l	94
70) Styrene	11.96	104	6010	0.636	ug/l	98
71) Bromoform	12.13	173	1377	0.543	ug/l #	98
73) Isopropylbenzene	12.25	105	9951	0.832	ug/l	100
74) N-amyl acetate	12.07	43	3180	0.714	ug/l	91
75) 1,1,2,2-Tetrachloroethane	12.50	83	3544	0.881	ug/l	92
76) 1,2,3-Trichloropropane	12.55	75	2887m	0.890	ug/l	
77) Bromobenzene	12.52	156	2715	0.868	ug/l	98
78) n-propylbenzene	12.59	91	10584	0.797	ug/l	93
79) 2-Chlorotoluene	12.67	91	6998	0.852	ug/l	94
80) 1,3,5-Trimethylbenzene	12.73	105	8366	0.825	ug/l	93
81) trans-1,4-Dichloro-2-buten	12.30	75	387m	0.368	ug/l	
82) 4-Chlorotoluene	12.77	91	6470	0.830	ug/l	100
83) tert-Butylbenzene	12.99	119	7274	0.824	ug/l	96
84) 1,2,4-Trimethylbenzene	13.04	105	7643	0.772	ug/l	96
85) sec-Butylbenzene	13.17	105	8935	0.793	ug/l	100
86) p-Isopropyltoluene	13.29	119	7590	0.744	ug/l	94
87) 1,3-Dichlorobenzene	13.28	146	3890	0.759	ug/l	95
88) 1,4-Dichlorobenzene	13.36	146	4128m	0.828	ug/l	
89) n-Butylbenzene	13.61	91	5382	0.655	ug/l	97
90) Hexachloroethane	13.87	117	1014	0.614	ug/l	91
91) 1,2-Dichlorobenzene	13.65	146	3867	0.737	ug/l	93
92) 1,2-Dibromo-3-Chloropropan	14.27	75	373	0.582	ug/l	87

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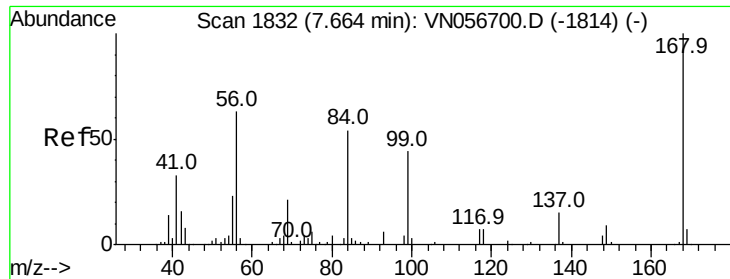
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	1639	0.682	ug/l #	88
94) Hexachlorobutadiene	15.01	225	1408	0.754	ug/l	93
95) Naphthalene	15.13	128	4405	0.684	ug/l #	91
96) 1,2,3-Trichlorobenzene	15.31	180	1896	0.765	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN056707.D

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Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion:168 Resp: 330569

Ion Ratio Lower Upper

168 100

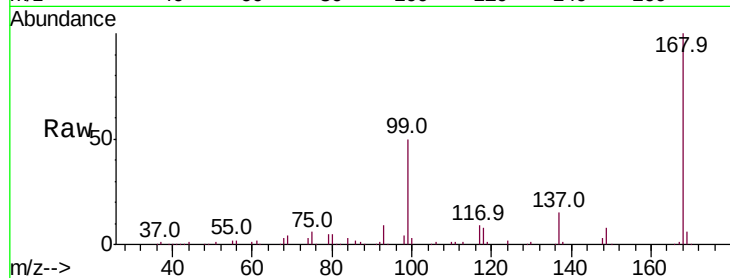
99 49.4 39.4 59.2

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

150000

100000

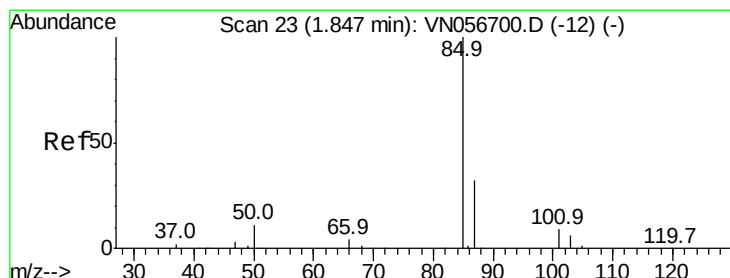
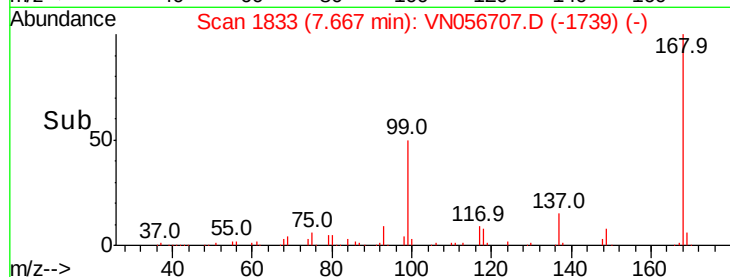
50000

0

7.67

7.60 7.70

Time-->



#2

Dichlorodifluoromethane

Concen: 0.687 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN056707.D

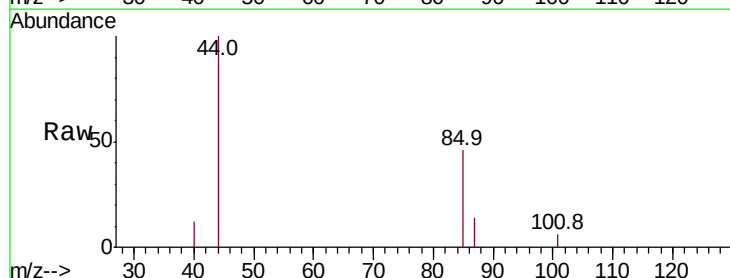
Acq: 15 Jul 2019 13:20

Tgt Ion: 85 Resp: 2132

Ion Ratio Lower Upper

85 100

87 30.9 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1500

1000

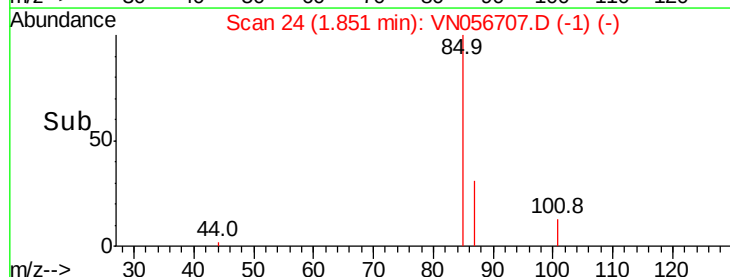
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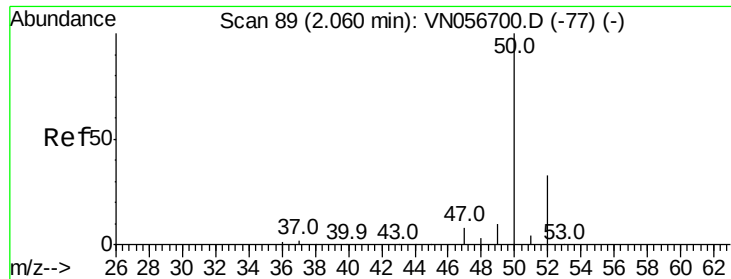
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1.85

1.82 1.84 1.86 1.88

Time-->





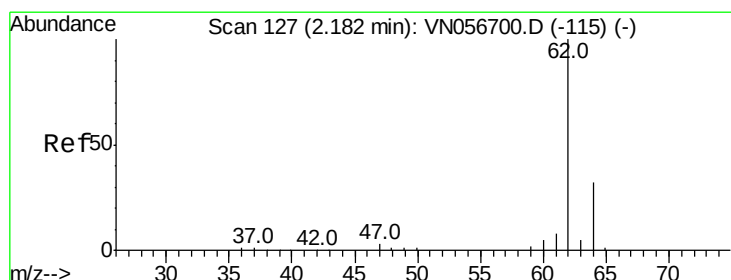
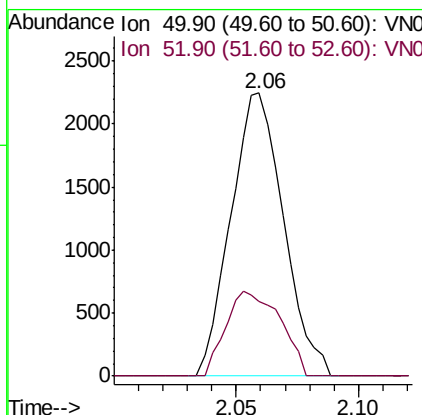
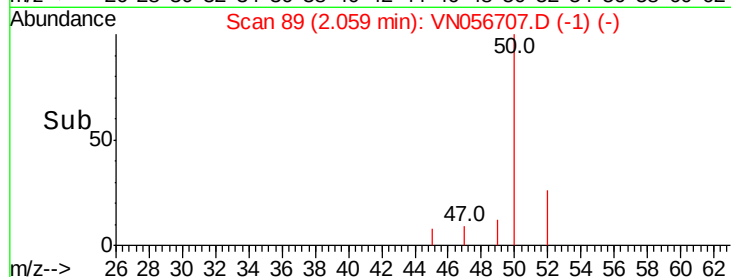
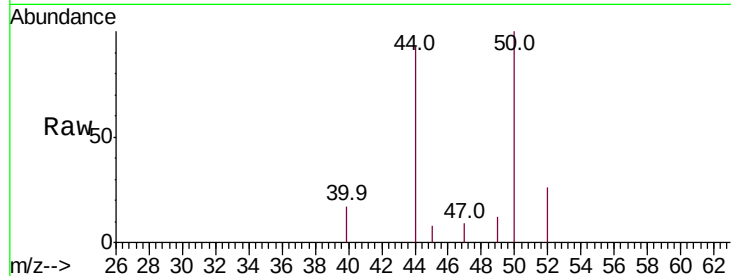
#3
 Chloromethane
 Concen: 0.806 ug/l
 RT: 2.06 min Scan# 89
 Delta R.T. -0.00 min
 Lab File: VN056707.D
 Acq: 15 Jul 2019 13:20

Instrument :
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 LOD-MDL-WATER-01-QT3-2019

Tot Ion: 50 Resp: 3365
 Ion Ratio Lower Upper
 50 100
 52 26.4 26.5 39.7#

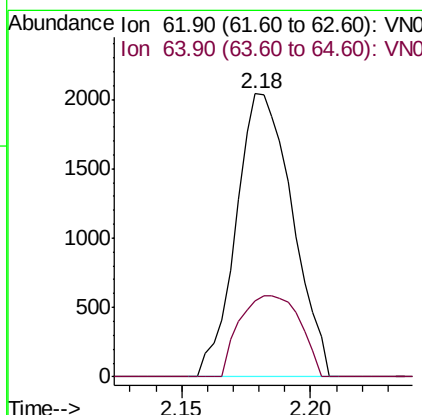
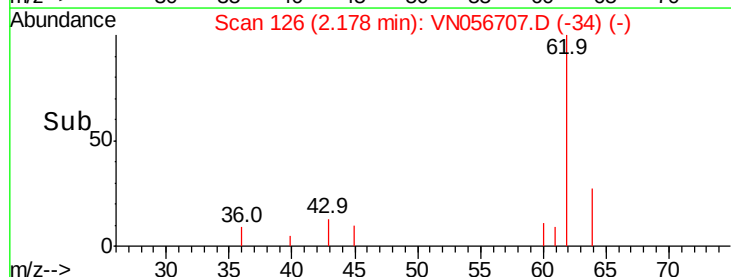
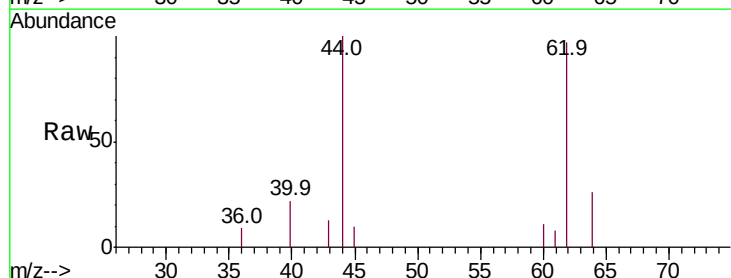
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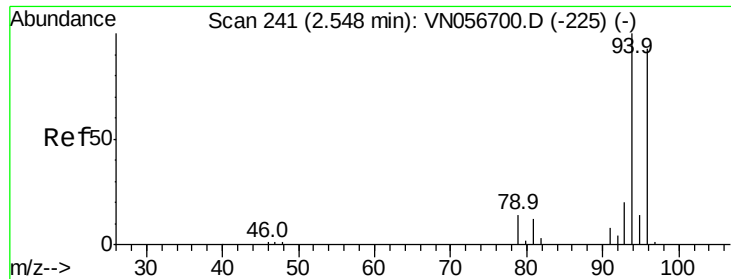
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#4
 Vinyl Chloride
 Concen: 0.774 ug/l
 RT: 2.18 min Scan# 126
 Delta R.T. -0.00 min
 Lab File: VN056707.D
 Acq: 15 Jul 2019 13:20

Tgt Ion: 62 Resp: 3111
 Ion Ratio Lower Upper
 62 100
 64 26.7 25.6 38.4





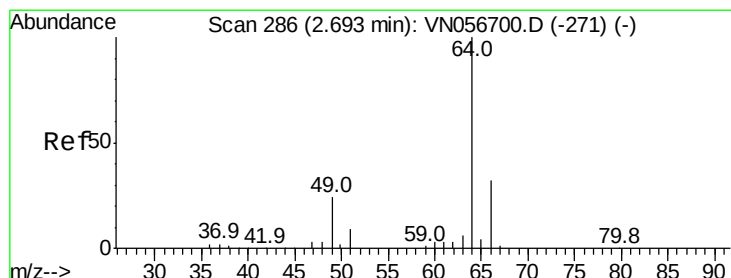
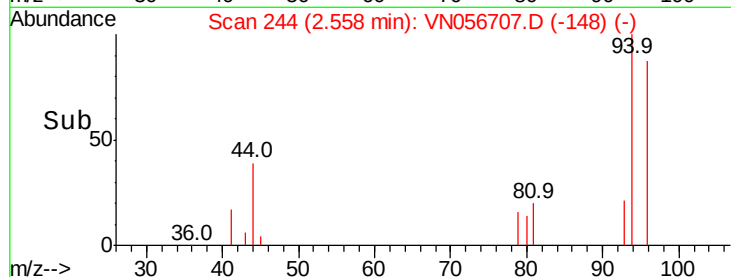
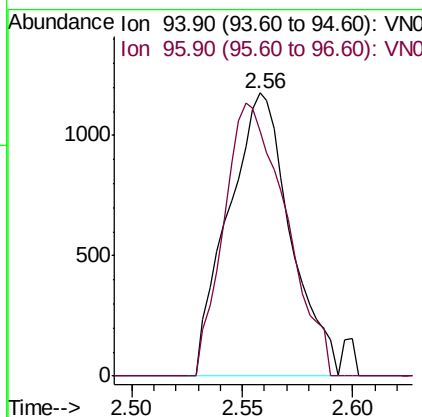
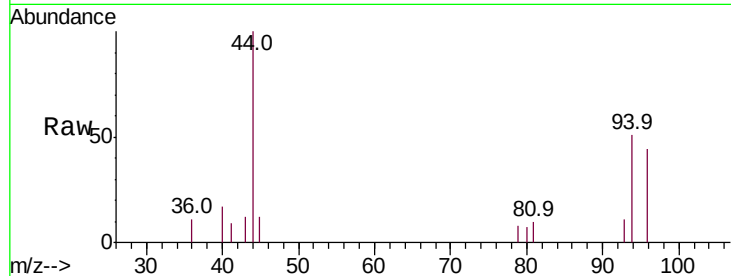
#5
Bromomethane
Concen: 0.975 ug/l
RT: 2.56 min Scan# 244
Delta R.T. 0.01 min
Lab File: VN056707.D
Acq: 15 Jul 2019 13:20

Instrument :
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LOD-MDL-WATER-01-QT3-2019

Tot Ion: 94 Resp: 2304
Ion Ratio Lower Upper
94 100
96 86.6 74.0 111.0

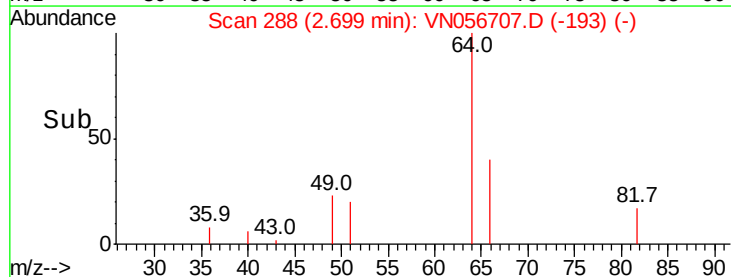
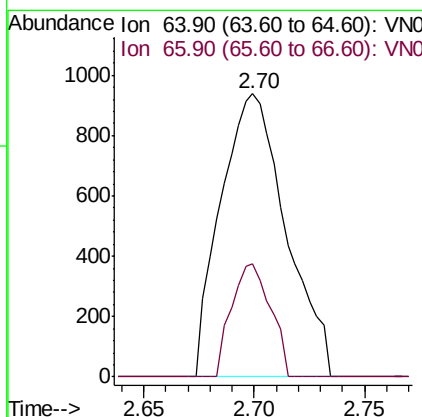
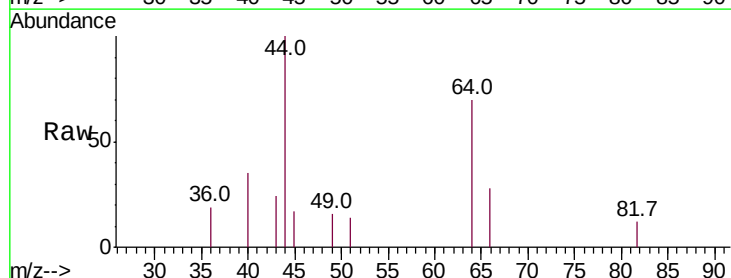
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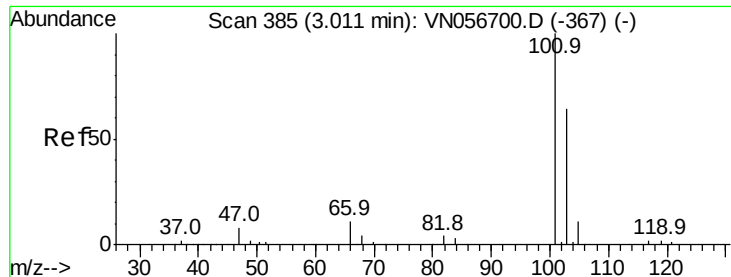
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#6
Chloroethane
Concen: 0.822 ug/l
RT: 2.70 min Scan# 288
Delta R.T. 0.01 min
Lab File: VN056707.D
Acq: 15 Jul 2019 13:20

Tgt Ion: 64 Resp: 1925
Ion Ratio Lower Upper
64 100
66 39.9 25.8 38.8#





#7

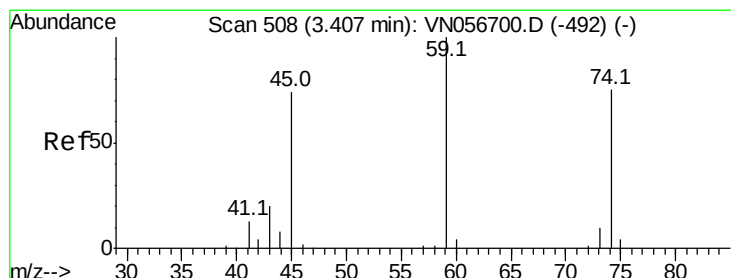
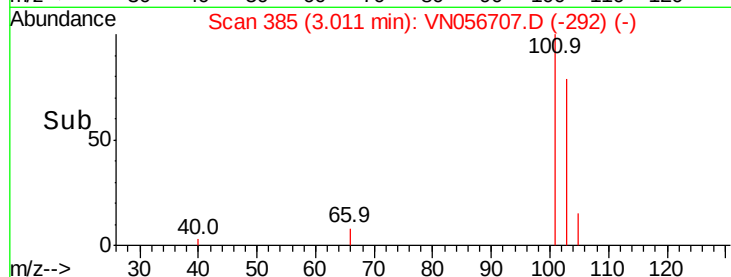
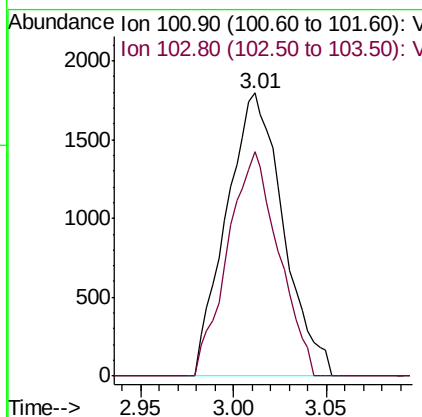
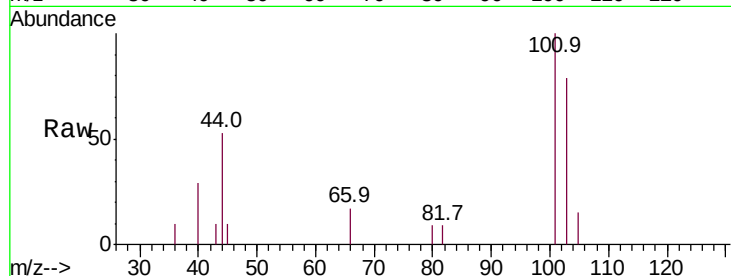
Trichlorofluoromethane
Concen: 0.743 ug/l
RT: 3.01 min Scan# 385
Delta R.T. -0.00 min
Lab File: VN056707.D
Acq: 15 Jul 2019 13:20

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LOD-MDL-WATER-01-QT3-2019

Tot Ion:101 Resp: 3830
Ion Ratio Lower Upper
101 100
103 79.2 51.5 77.3#

Manual Integrations
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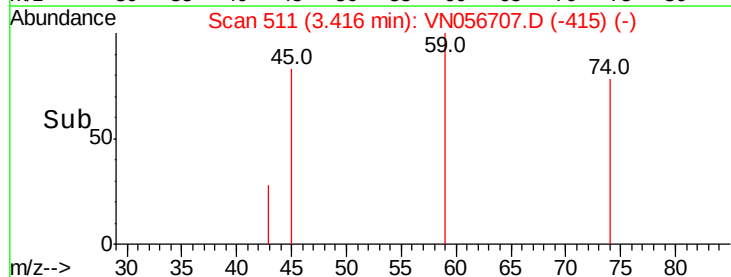
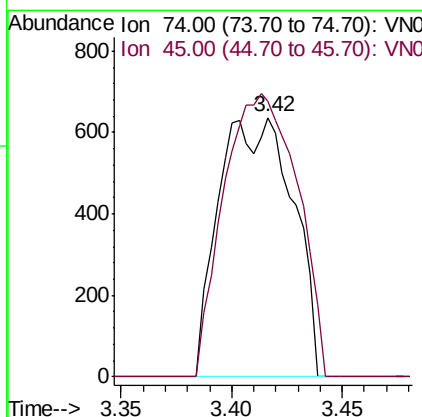
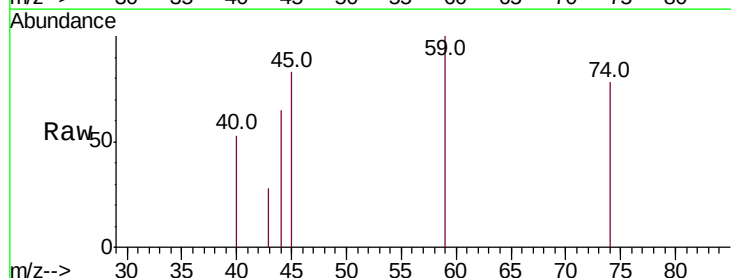
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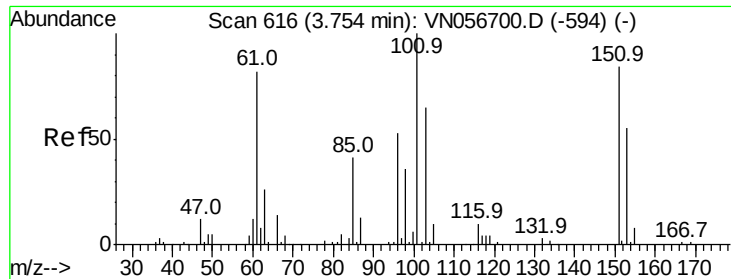


#8

Diethyl Ether
Concen: 0.738 ug/l m
RT: 3.42 min Scan# 511
Delta R.T. 0.01 min
Lab File: VN056707.D
Acq: 15 Jul 2019 13:20

Tgt Ion: 74 Resp: 1483
Ion Ratio Lower Upper
74 100
45 108.2 49.4 148.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.736 ug/l

RT: 3.76 min Scan# 619

Delta R.T. 0.01 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

Instrument :

MSVOA_N

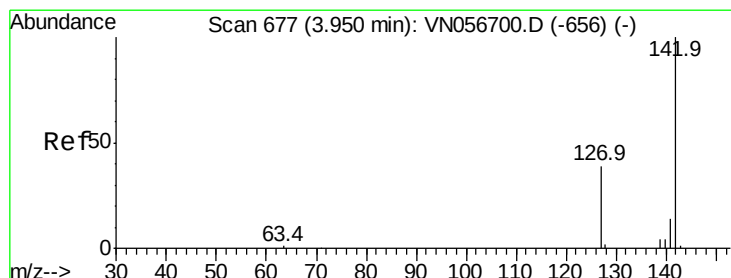
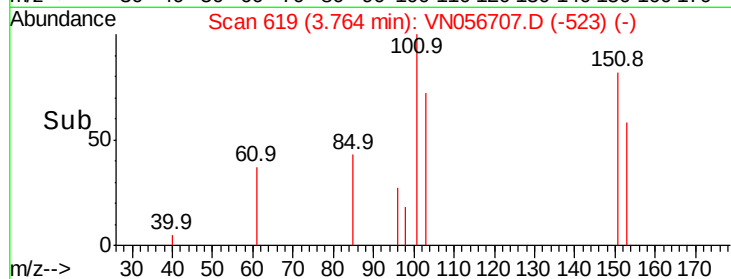
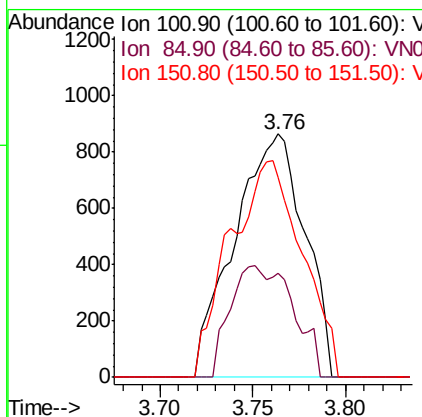
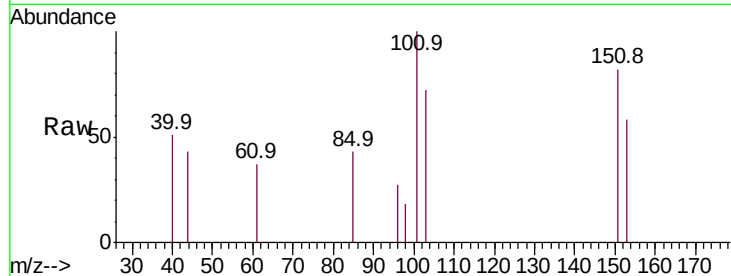
ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion:	101	Resp:	2281
Ion Ratio	Lower	Upper	
101	100		
85	40.9	33.3	49.9
151	91.1	67.0	100.6

Manual Integrations
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#10

Methyl Iodide

Concen: 0.508 ug/l

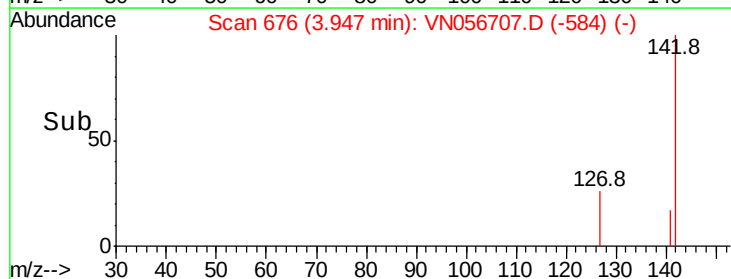
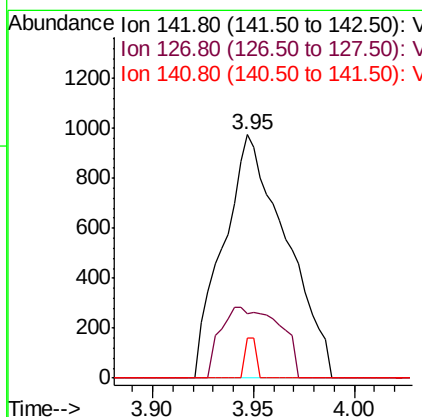
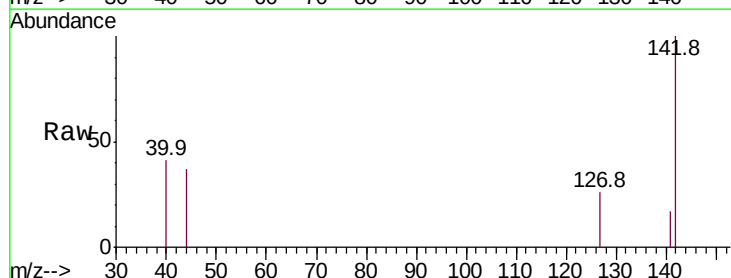
RT: 3.95 min Scan# 676

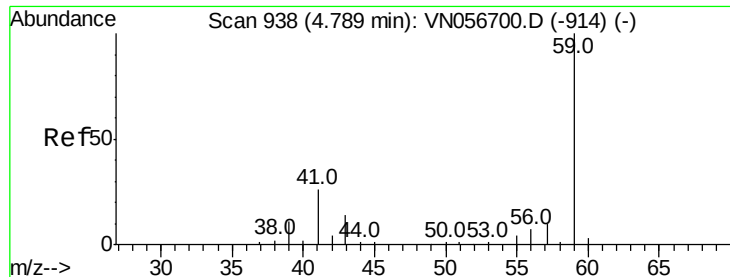
Delta R.T. -0.00 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

Tgt Ion:	142	Resp:	2107
Ion Ratio	Lower	Upper	
142	100		
127	27.6	30.7	46.1#
141	2.9	11.3	16.9#





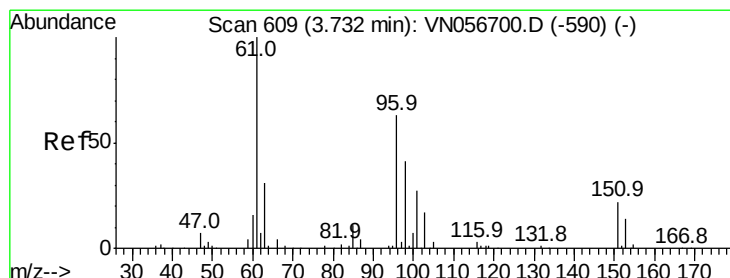
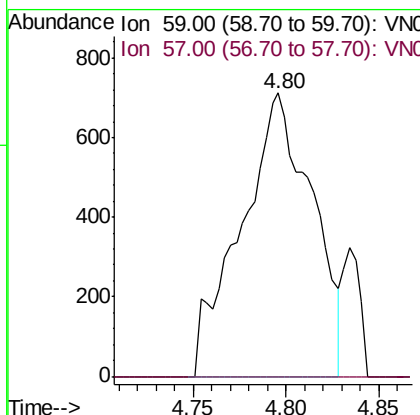
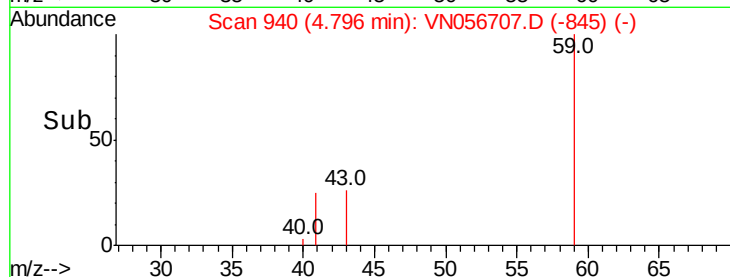
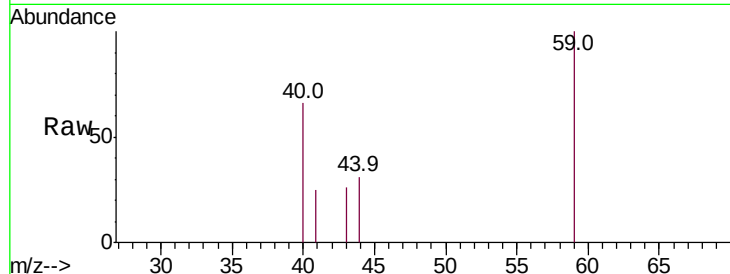
#11
Tert butyl alcohol
Concen: 3.130 ug/l
RT: 4.80 min Scan# 940
Delta R.T. 0.01 min
Lab File: VN056707.D
Acq: 15 Jul 2019 13:20

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

Tot Ion: 59 Resp: 1905
Ion Ratio Lower Upper
59 100
57 0.0 8.0 12.0#

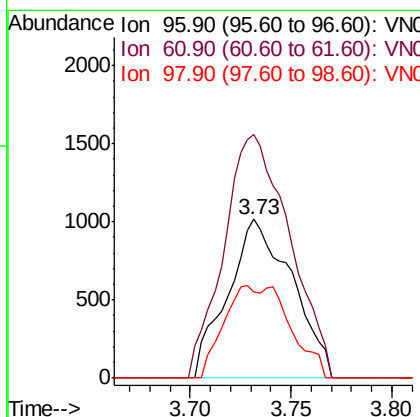
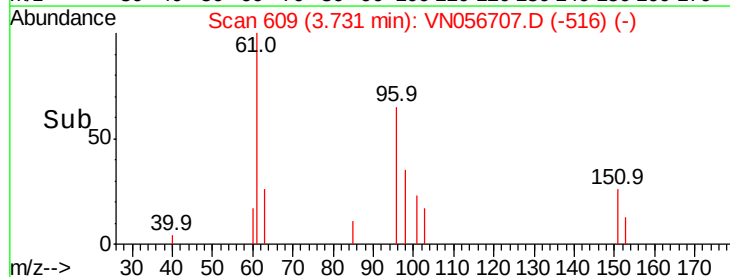
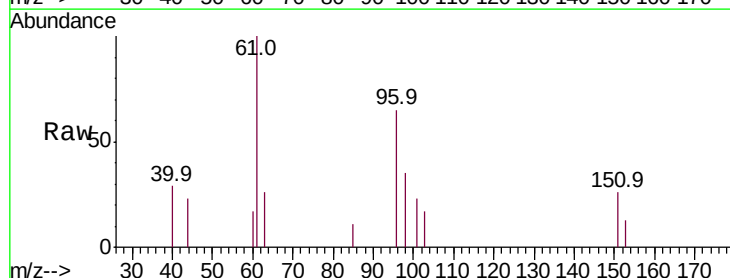
Manual Integrations
APPROVED

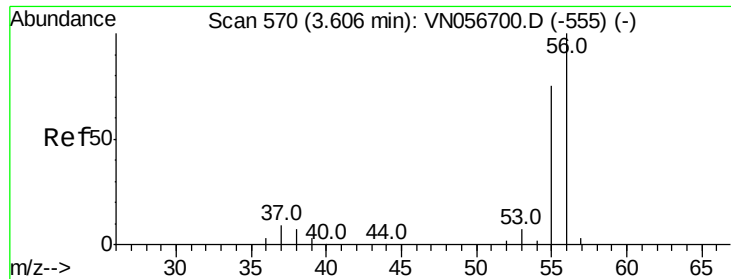
MMDadoda
7/17/2019 1:31:32 AM



#12
1,1-Dichloroethene
Concen: 0.726 ug/l
RT: 3.73 min Scan# 609
Delta R.T. -0.00 min
Lab File: VN056707.D
Acq: 15 Jul 2019 13:20

Tgt Ion: 96 Resp: 2255
Ion Ratio Lower Upper
96 100
61 153.3 126.6 189.8
98 54.0 51.4 77.2





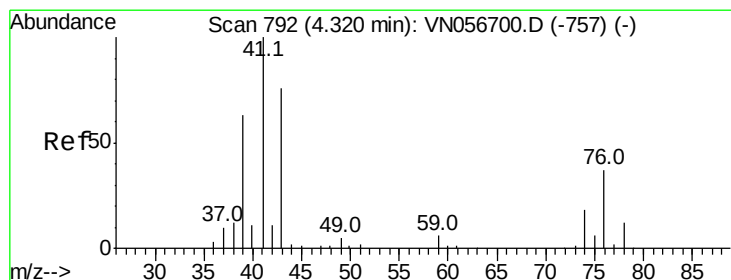
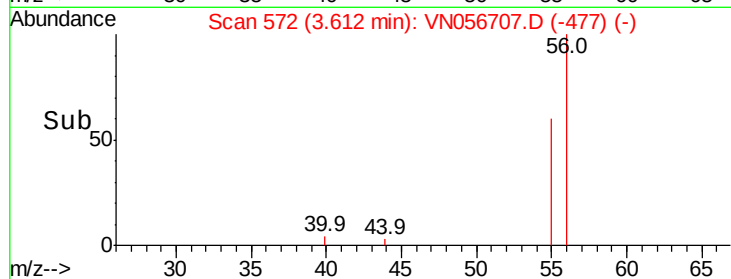
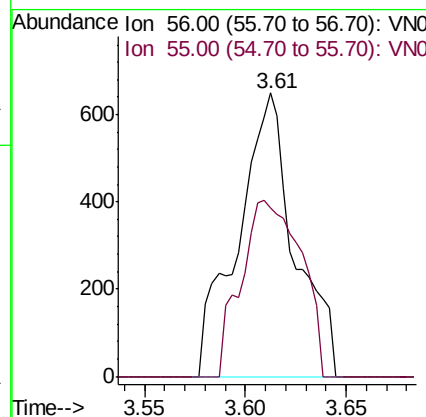
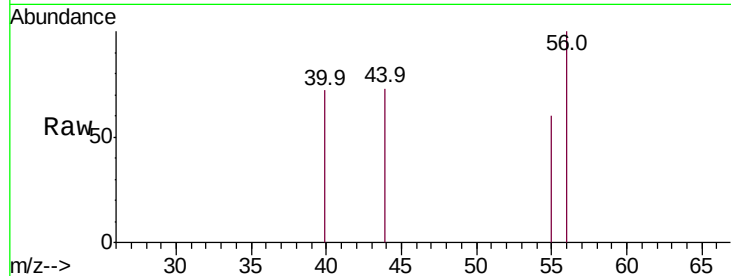
#13
Acrolein
Concen: 5.754 ug/l
RT: 3.61 min Scan# 572
Delta R.T. 0.01 min
Lab File: VN056707.D
Acq: 15 Jul 2019 13:20

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
56	100		
55	65.8	58.0	87.0

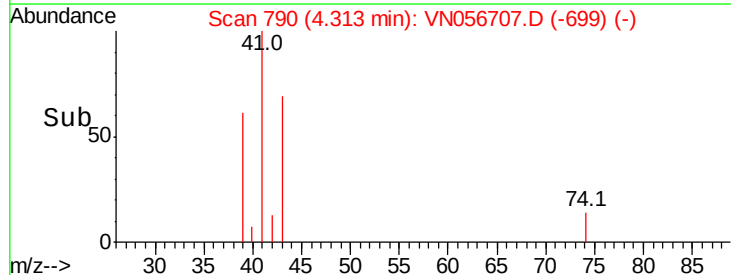
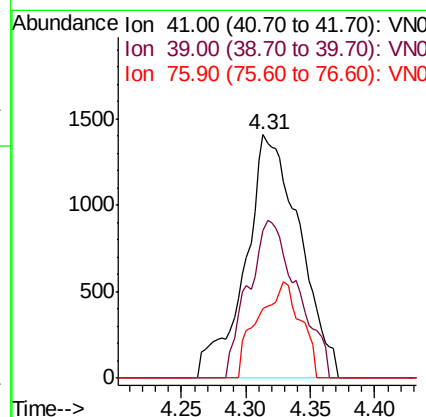
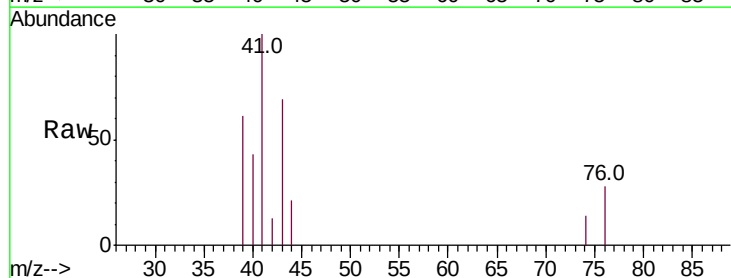
Manual Integrations
APPROVED

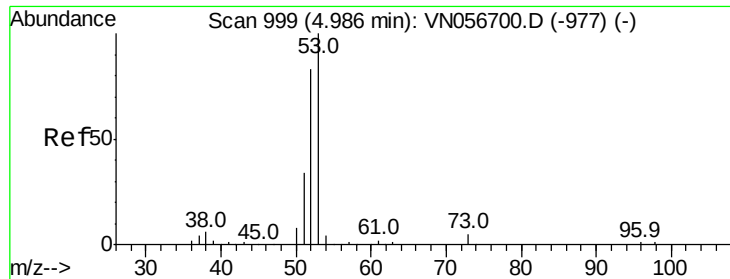
MMDadoda
7/17/2019 1:31:32 AM



#14
Allyl chloride
Concen: 0.773 ug/l
RT: 4.31 min Scan# 790
Delta R.T. -0.01 min
Lab File: VN056707.D
Acq: 15 Jul 2019 13:20

Tgt Ion	Ratio	Lower	Upper
41	100		
39	58.4	46.9	70.3
76	30.7	26.5	39.7





#15

Acrylonitrile

Concen: 3.486 ug/l m

RT: 5.00 min Scan# 1004

Delta R.T. 0.02 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

Instrument :

MSVOA_N

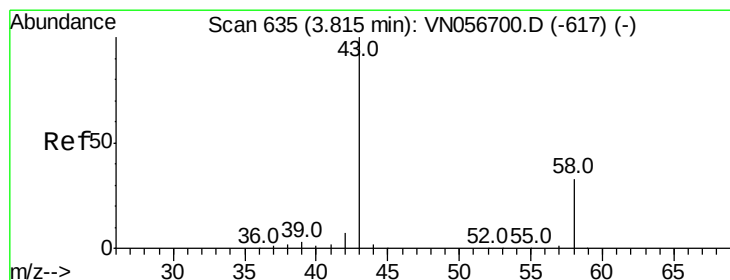
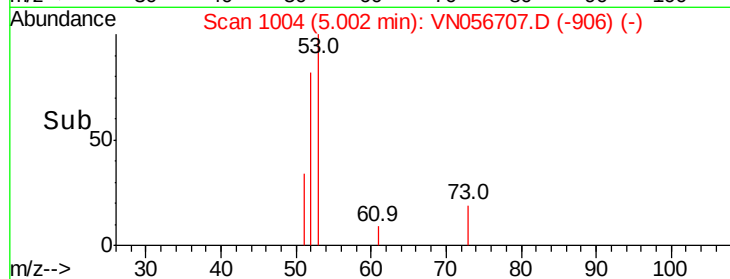
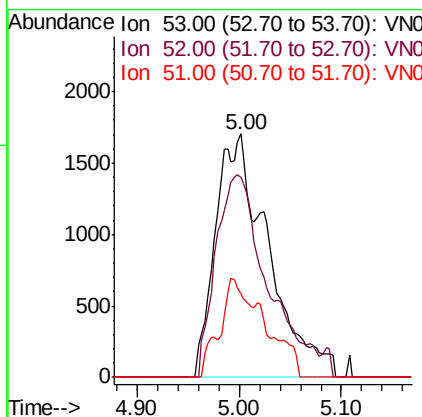
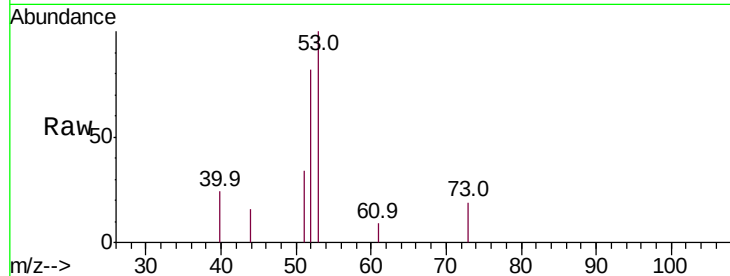
ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion:	53	Resp:	6127
Ion	Ratio	Lower	Upper
53	100		
52	81.3	66.6	99.8
51	22.7	28.4	42.6#

Manual Integrations
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7/17/2019 1:31:32 AM



#16

Acetone

Concen: 3.860 ug/l

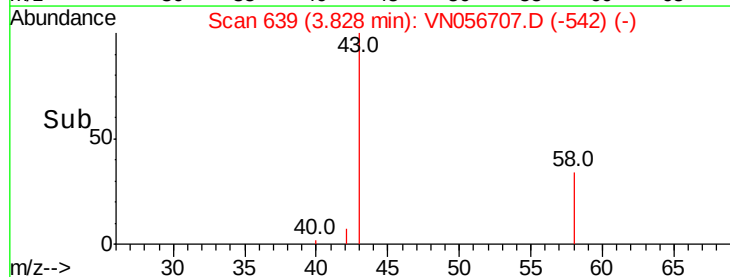
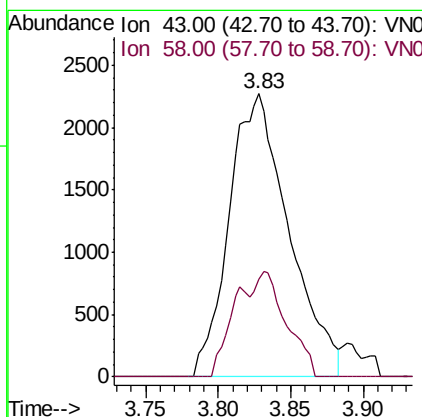
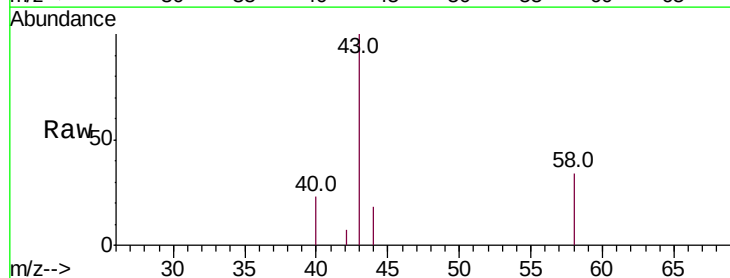
RT: 3.83 min Scan# 639

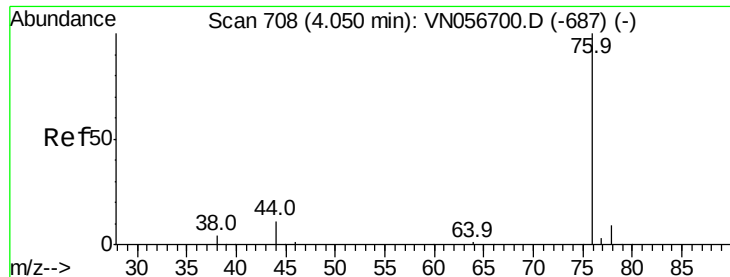
Delta R.T. 0.01 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

Tgt Ion:	43	Resp:	6505
Ion	Ratio	Lower	Upper
43	100		
58	34.4	26.7	40.1





#17

Carbon Disulfide

Concen: 0.757 ug/l

RT: 4.05 min Scan# 709

Delta R.T. 0.00 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion: 76 Resp: 6220

Ion Ratio Lower Upper

76 100

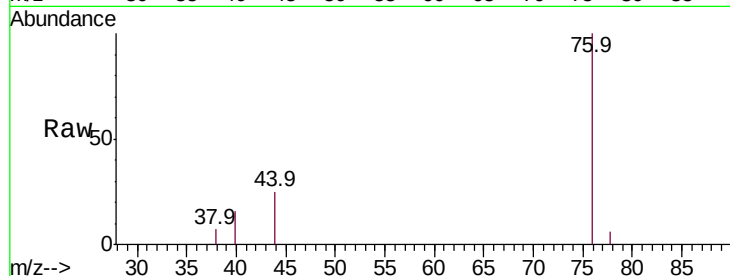
78 6.5 7.4 11.0#

Manual Integrations

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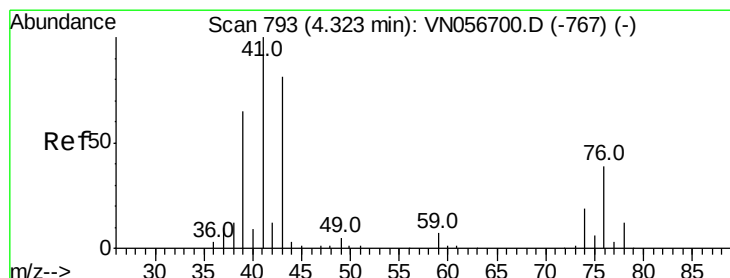
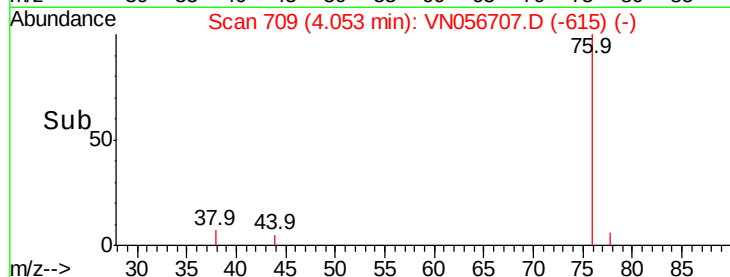
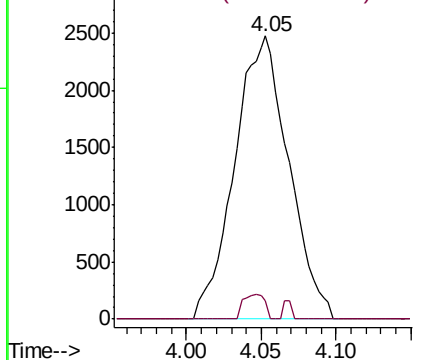
MMDadoda

7/17/2019 1:31:32 AM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#18

Methyl Acetate

Concen: 1.304 ug/l

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN056707.D

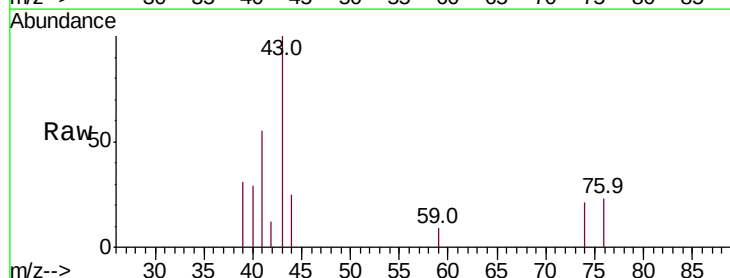
Acq: 15 Jul 2019 13:20

Tgt Ion: 43 Resp: 5893

Ion Ratio Lower Upper

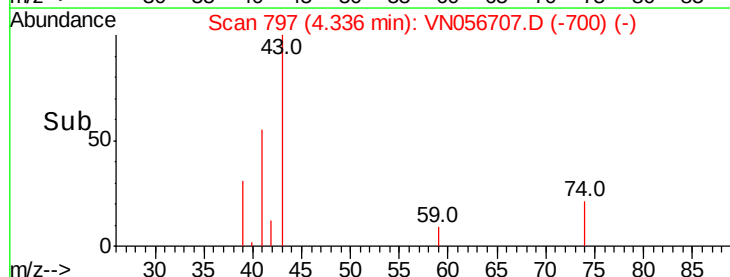
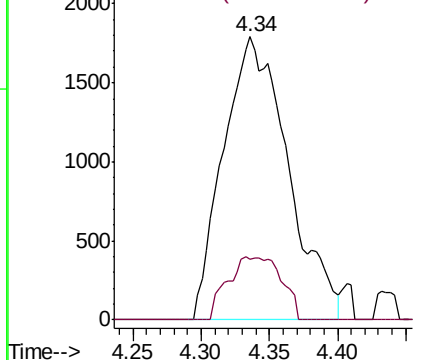
43 100

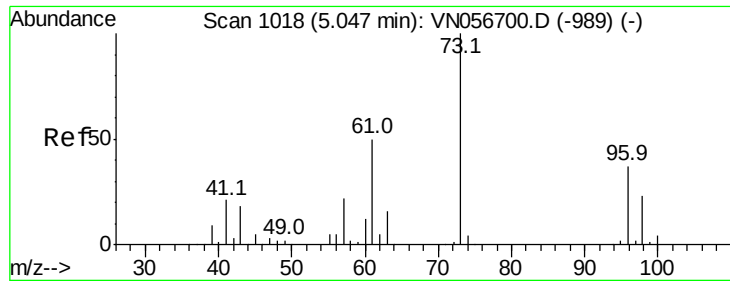
74 18.4 18.9 28.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





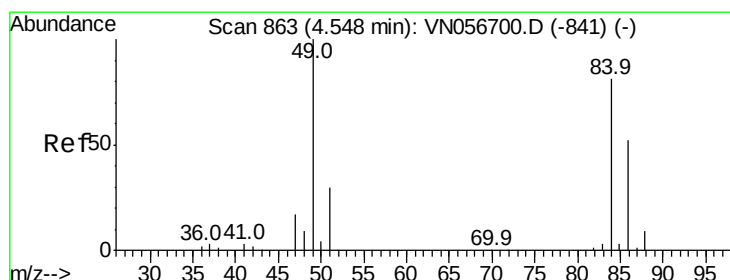
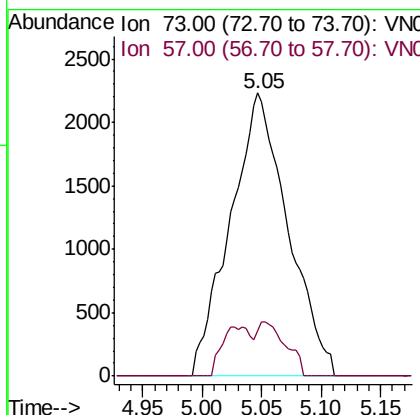
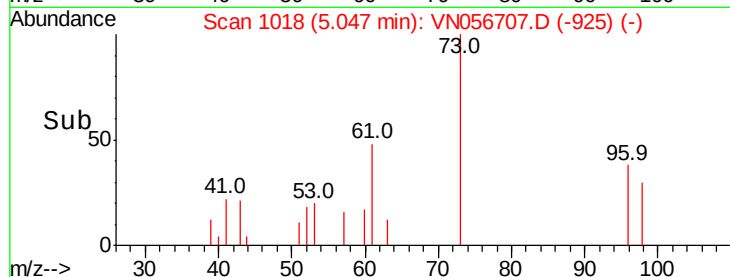
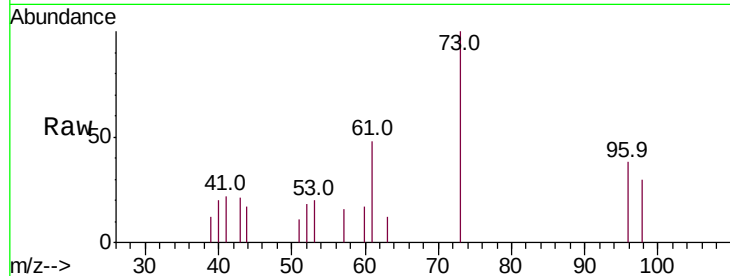
#19
Methyl tert-butyl Ether
Concen: 0.753 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. -0.00 min
Lab File: VN056707.D
Acq: 15 Jul 2019 13:20

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

Tot Ion: 73 Resp: 7457
Ion Ratio Lower Upper
73 100
57 16.0 17.9 26.9#

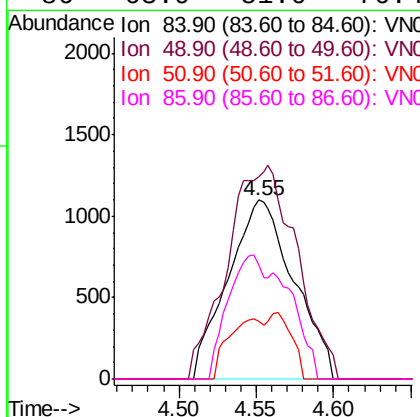
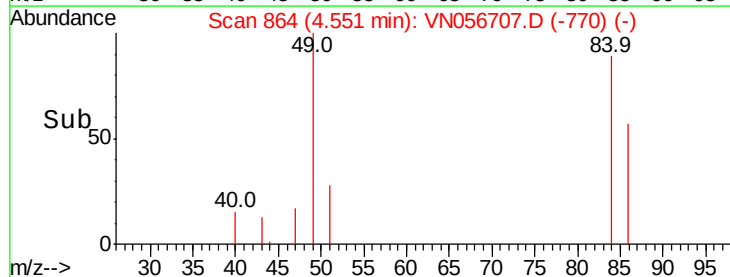
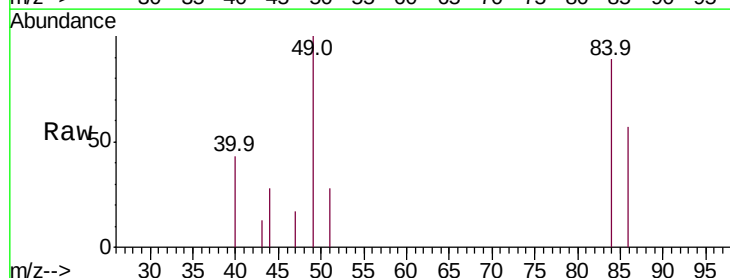
Manual Integrations
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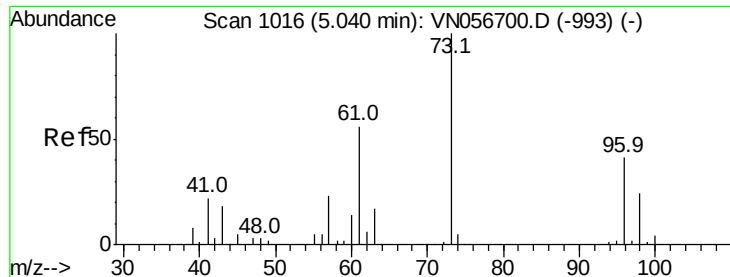
MMDadoda
7/17/2019 1:31:32 AM



#20
Methylene Chloride
Concen: 0.883 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.00 min
Lab File: VN056707.D
Acq: 15 Jul 2019 13:20

Tgt Ion: 84 Resp: 3252
Ion Ratio Lower Upper
84 100
49 112.9 98.2 147.4
51 32.1 29.6 44.4
86 63.9 51.0 76.4





#21

trans-1,2-Dichloroethene

Concen: 0.717 ug/l m

RT: 5.05 min Scan# 1018

Delta R.T. 0.01 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion: 96 Resp: 2356

Ion Ratio Lower Upper

96 100

61 128.4 109.4 164.2

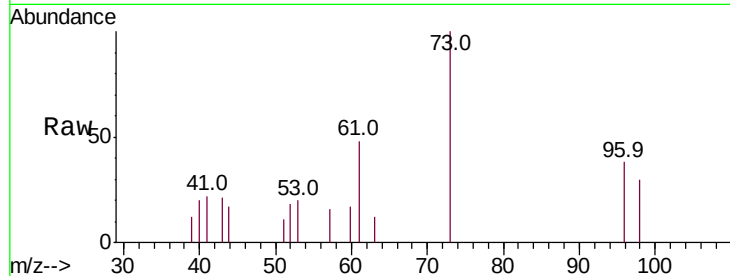
98 79.3 48.0 72.0#

Manual Integrations

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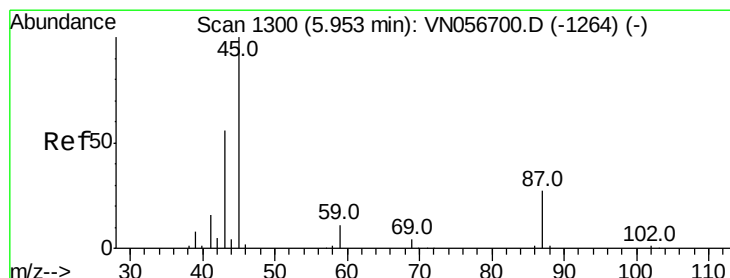
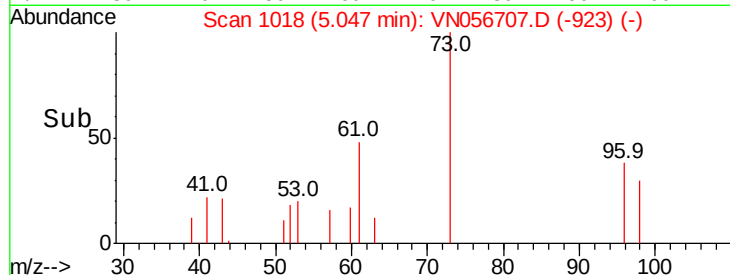
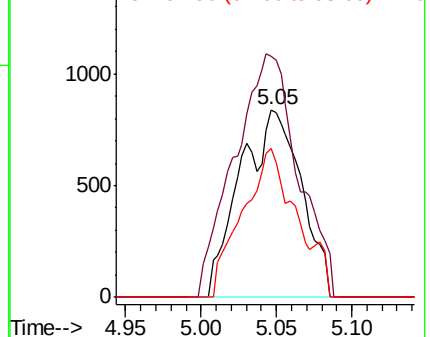


Abundance

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: 0.708 ug/l

RT: 5.95 min Scan# 1300

Delta R.T. -0.00 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

Tgt Ion: 45 Resp: 7513

Ion Ratio Lower Upper

45 100

43 89.7 45.6 68.4#

87 31.3 22.0 33.0

59 12.7 9.3 13.9

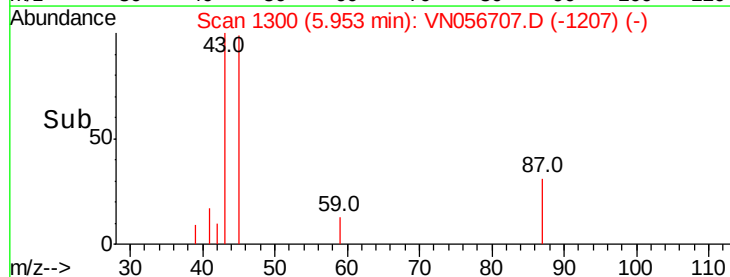
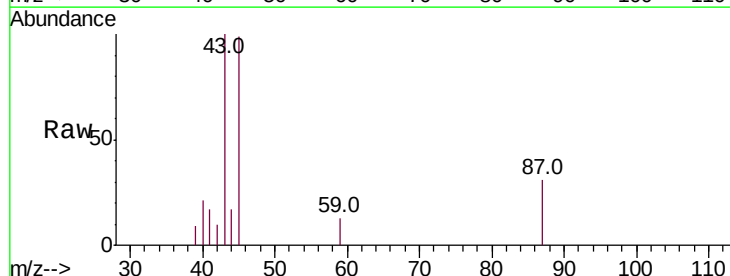
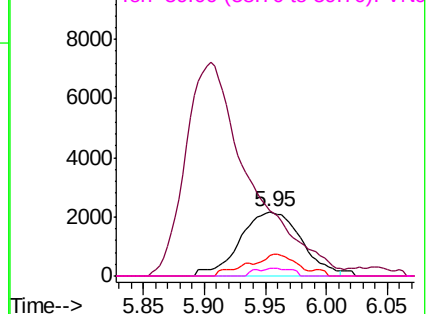
Abundance

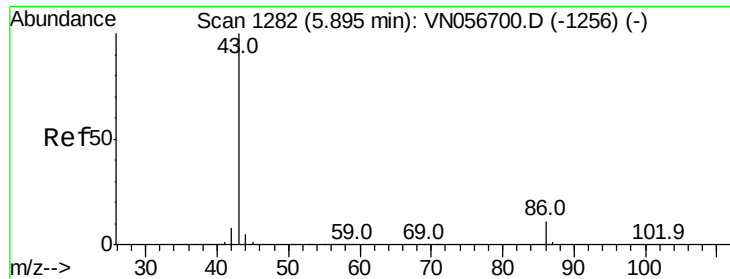
Ion 45.00 (44.70 to 45.70): VNC

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





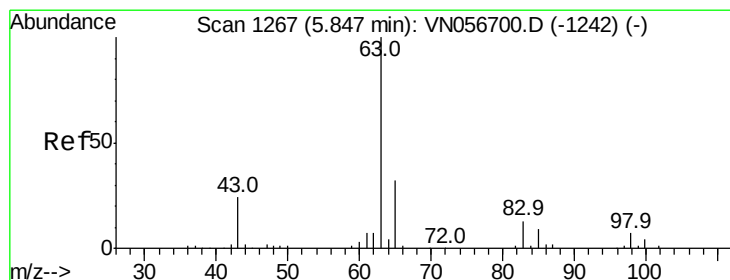
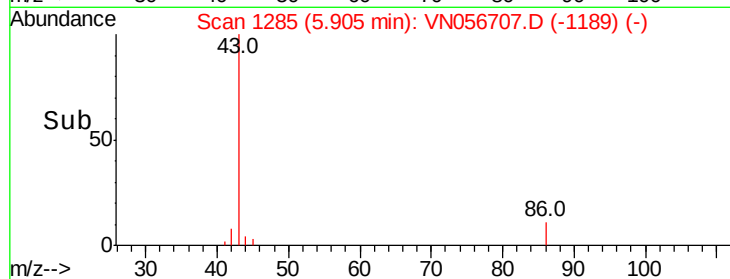
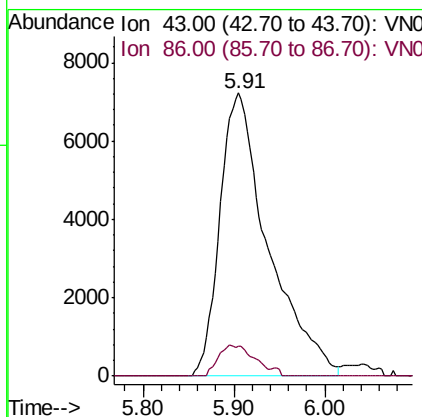
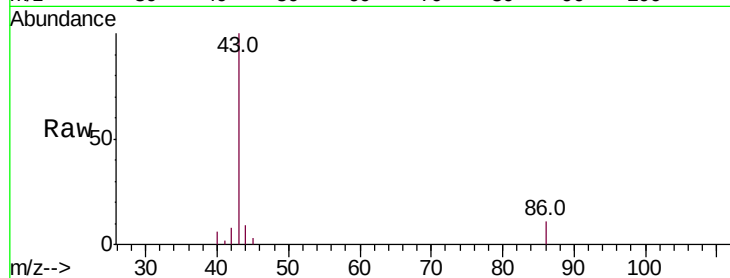
#23
 Vinyl Acetate
 Concen: 3.097 ug/l
 RT: 5.91 min Scan# 1285
 Delta R.T. 0.01 min
 Lab File: VN056707.D
 Acq: 15 Jul 2019 13:20

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2019

Tot Ion	43	86	Ratio	100	10.7	Resp	26625	Lower	8.5	Upper	12.7
Ion	43	86	Ratio	100	10.7	Resp	26625	Lower	8.5	Upper	12.7

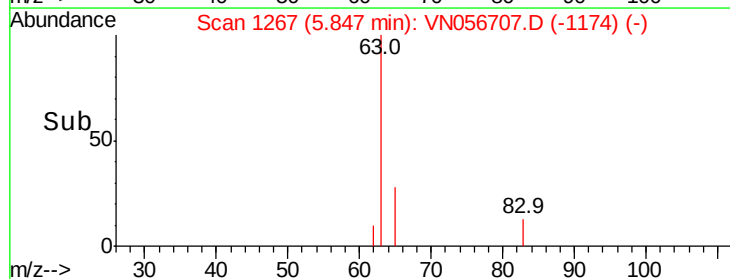
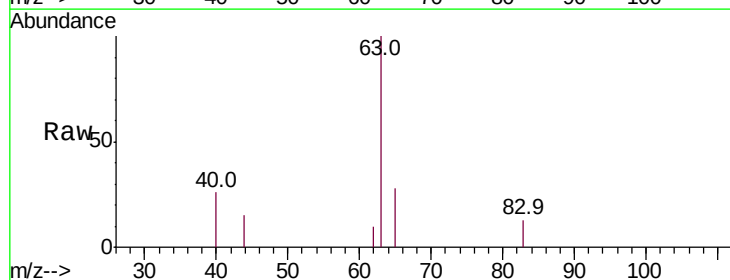
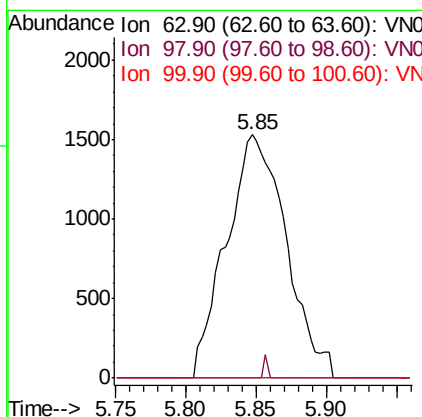
Manual Integrations
 APPROVED

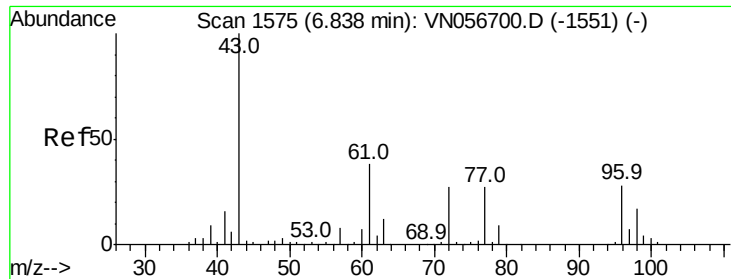
MMDadoda
 7/17/2019 1:31:32 AM



#24
 1,1-Dichloroethane
 Concen: 0.737 ug/l
 RT: 5.85 min Scan# 1267
 Delta R.T. -0.00 min
 Lab File: VN056707.D
 Acq: 15 Jul 2019 13:20

Tgt Ion	63	98	100	Ratio	100	0.0	0.0	Resp	4534	Lower	3.3	2.0	Upper	9.9#	5.8#
Ion	63	98	100	Ratio	100	0.0	0.0	Resp	4534	Lower	3.3	2.0	Upper	9.9#	5.8#





#25

2-Butanone

Concen: 3.435 ug/l

RT: 6.85 min Scan# 1580

Delta R.T. 0.02 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion: 43 Resp: 8461

Ion Ratio Lower Upper

43 100

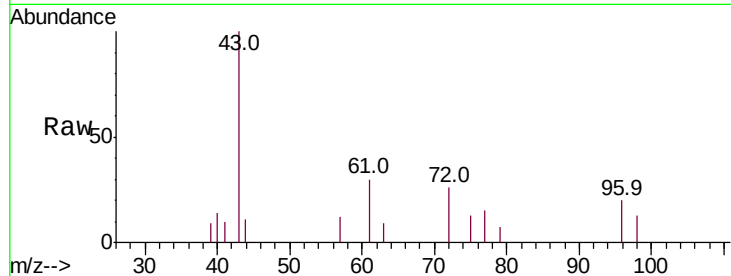
72 25.9 21.2 31.8

Manual Integrations

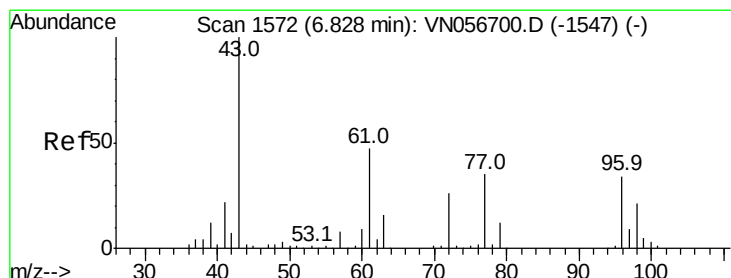
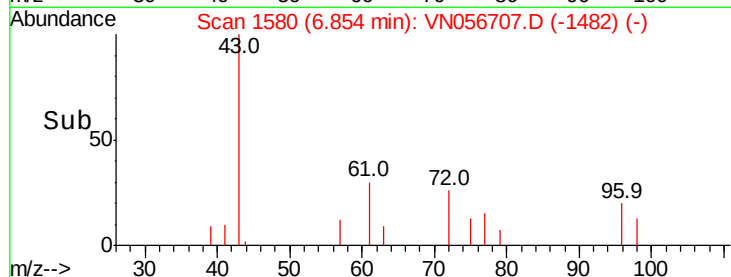
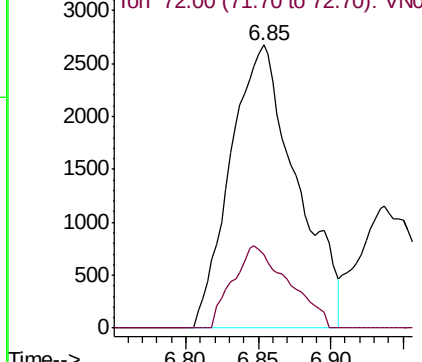
APPROVED

MMDadoda

7/17/2019 1:31:32 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0



#26

2,2-Dichloropropane

Concen: 0.772 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. -0.00 min

Lab File: VN056707.D

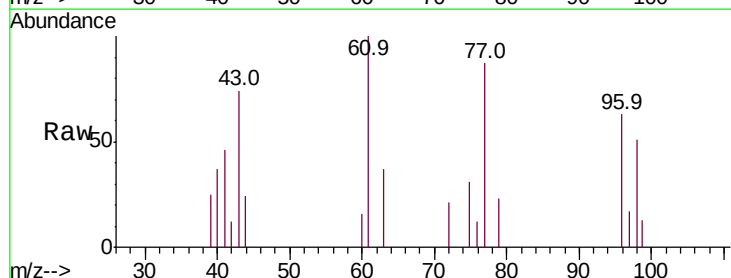
Acq: 15 Jul 2019 13:20

Tgt Ion: 77 Resp: 3425

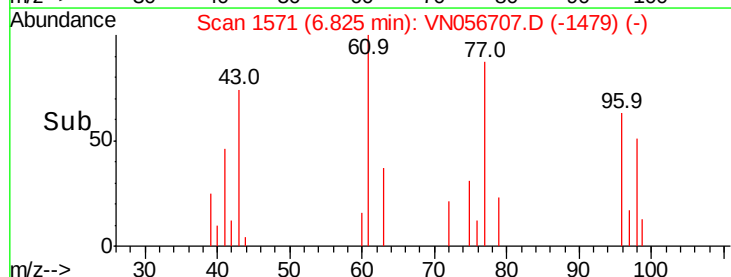
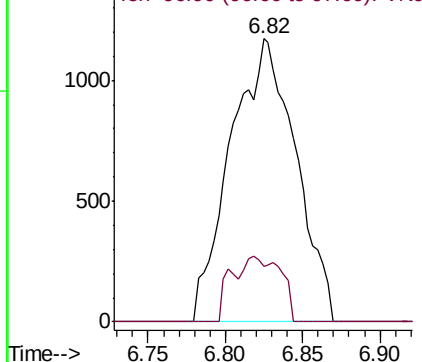
Ion Ratio Lower Upper

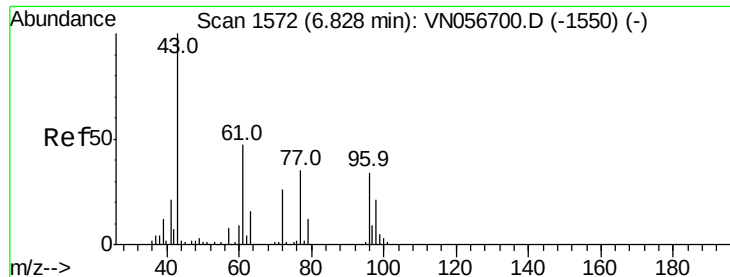
77 100

97 13.1 12.2 36.6



Abundance Ion 76.90 (76.60 to 77.60): VN0





#27

cis-1,2-Dichloroethene

Concen: 0.748 ug/l

RT: 6.84 min Scan# 1575

Delta R.T. 0.01 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

Instrument :

MSVOA_N

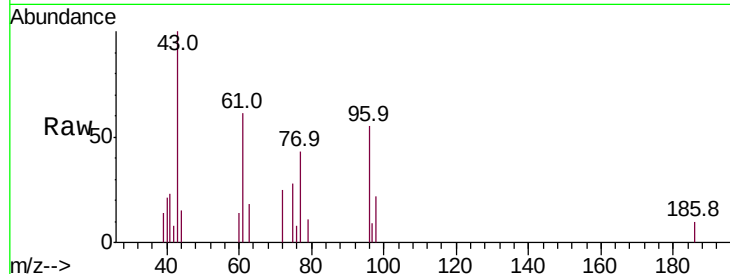
ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

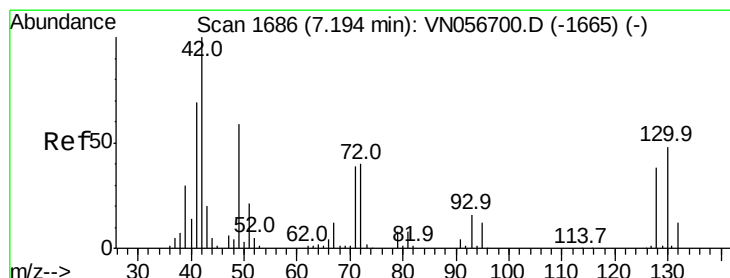
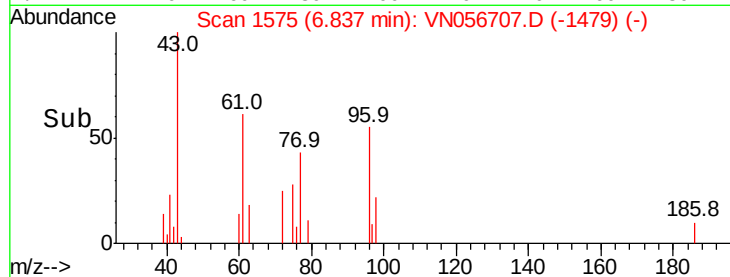
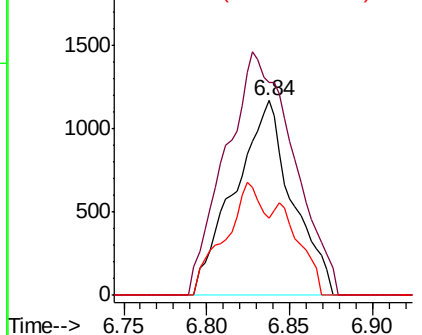
Tot Ion:	96	Resp:	2826
Ion	Ratio	Lower	Upper
96	100		
61	147.7	0.0	281.4
98	40.3	0.0	127.8

Manual Integrations
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7/17/2019 1:31:32 AM



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



#28

Bromochloromethane

Concen: 0.671 ug/l

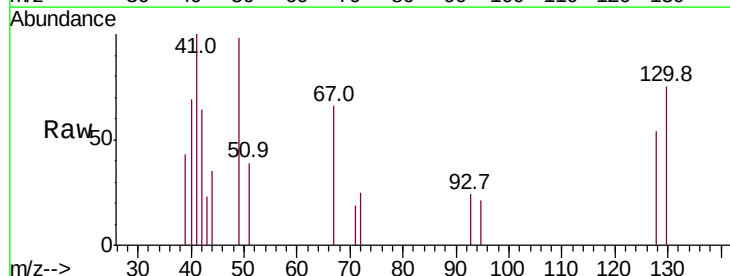
RT: 7.19 min Scan# 1685

Delta R.T. -0.00 min

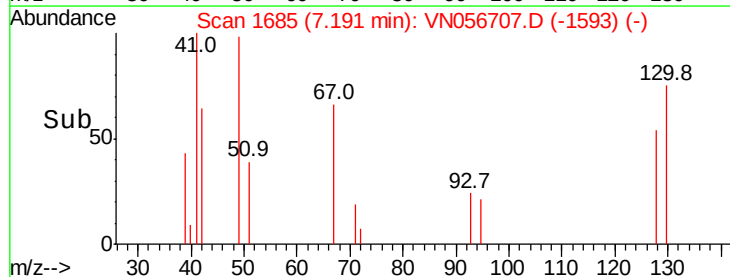
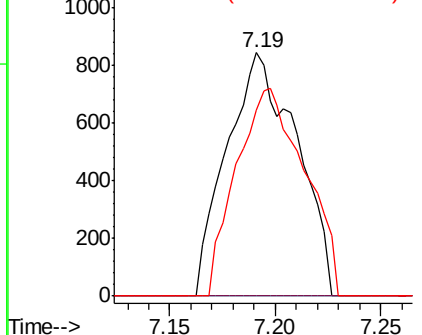
Lab File: VN056707.D

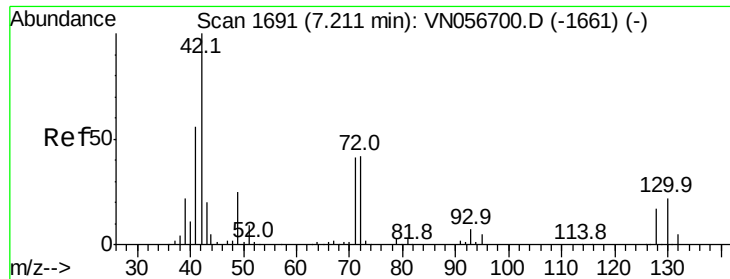
Acq: 15 Jul 2019 13:20

Tgt Ion:	49	Resp:	1939
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.0
130	83.3	64.7	97.1



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





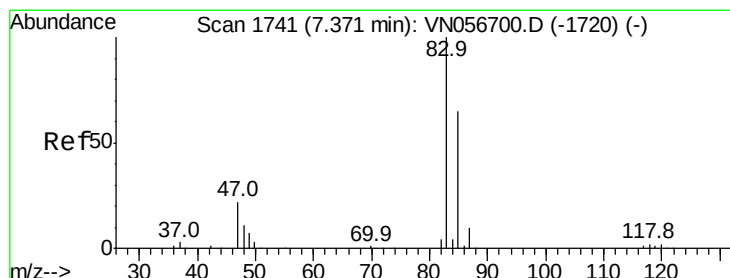
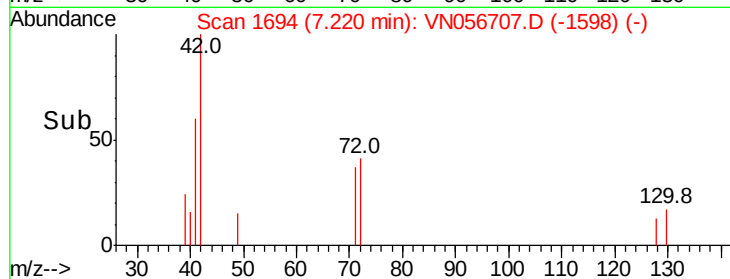
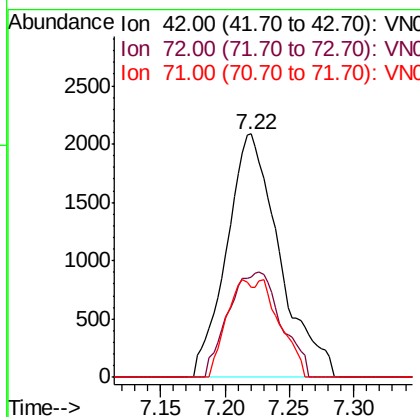
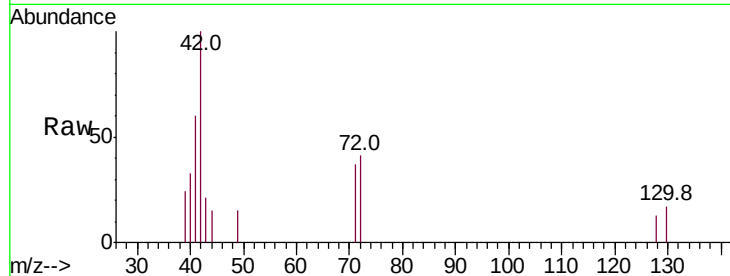
#29
Tetrahydrofuran
Concen: 3.698 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. 0.01 min
Lab File: VN056707.D
Acq: 15 Jul 2019 13:20

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
42	100		
72	43.1	33.5	50.3
71	21.3	31.8	47.8

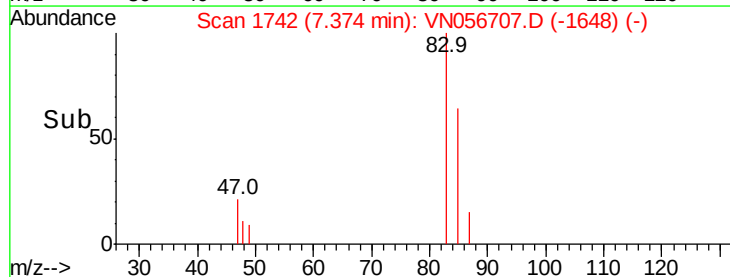
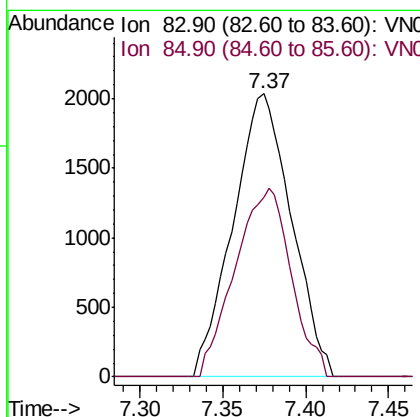
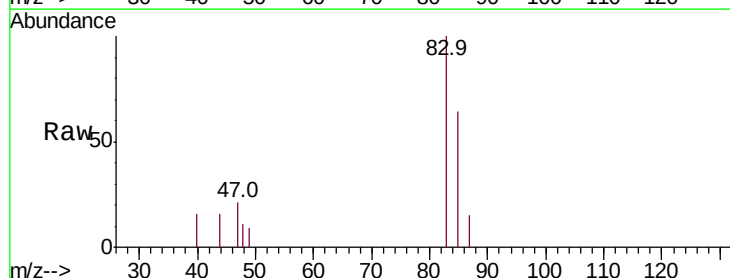
Manual Integrations
APPROVED

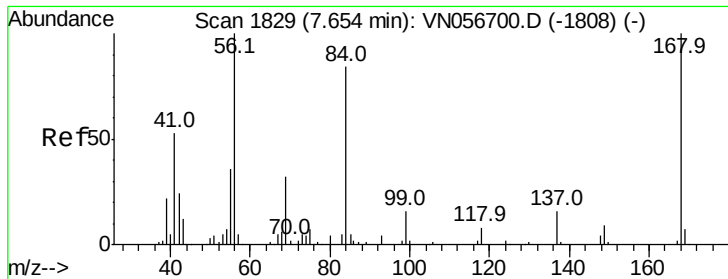
MMDadoda
7/17/2019 1:31:32 AM



#30
Chloroform
Concen: 0.810 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN056707.D
Acq: 15 Jul 2019 13:20

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.7	51.9	77.9





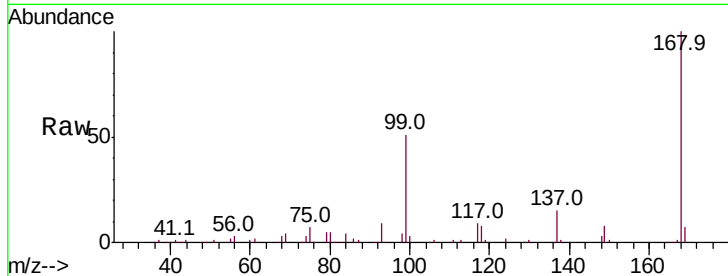
#31
Cyclohexane
Concen: 1.560 ug/l
RT: 7.66 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN056707.D
Acq: 15 Jul 2019 13:20

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

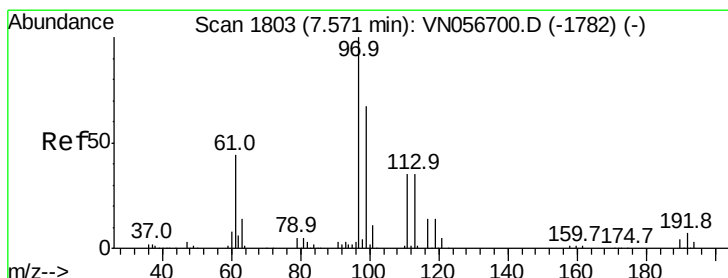
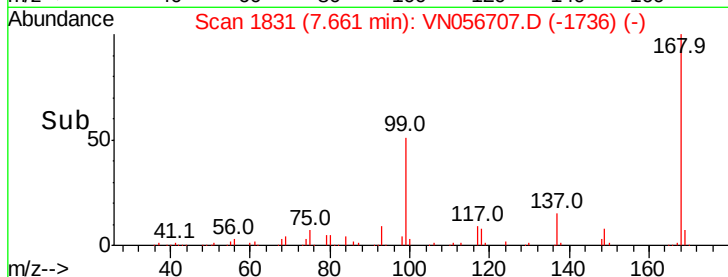
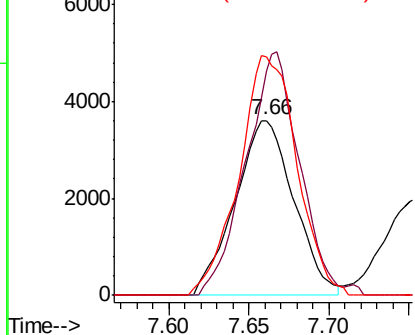
Tot Ion: 56 Resp: 9120
Ion Ratio Lower Upper
56 100
69 127.8 25.8 38.8#
84 135.9 67.4 101.0#

Manual Integrations
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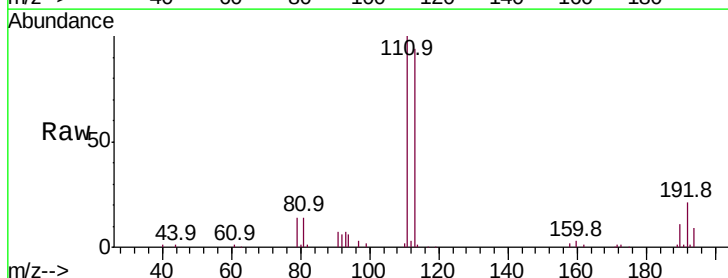


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

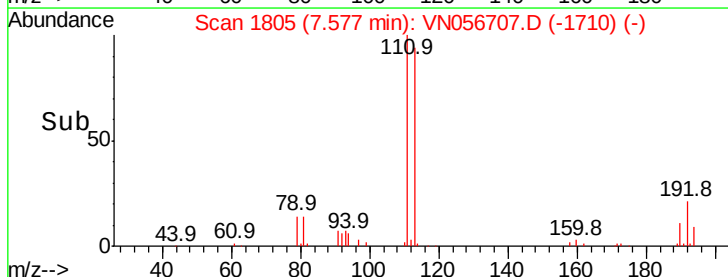
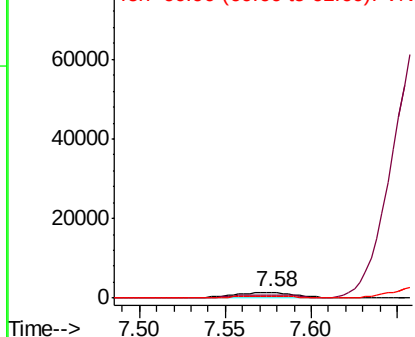


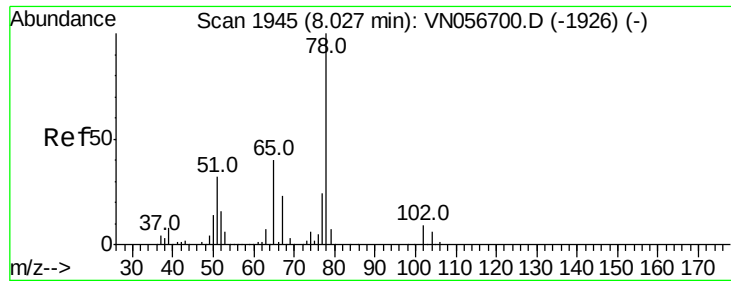
#32
1,1,1-Trichloroethane
Concen: 0.730 ug/l
RT: 7.58 min Scan# 1805
Delta R.T. 0.01 min
Lab File: VN056707.D
Acq: 15 Jul 2019 13:20

Tgt Ion: 97 Resp: 3551
Ion Ratio Lower Upper
97 100
99 0.0 52.0 78.0#
61 33.5 34.3 51.5#



Abundance Ion 96.90 (96.60 to 97.60): VNC
Ion 98.90 (98.60 to 99.60): VNC
Ion 60.90 (60.60 to 61.60): VNC





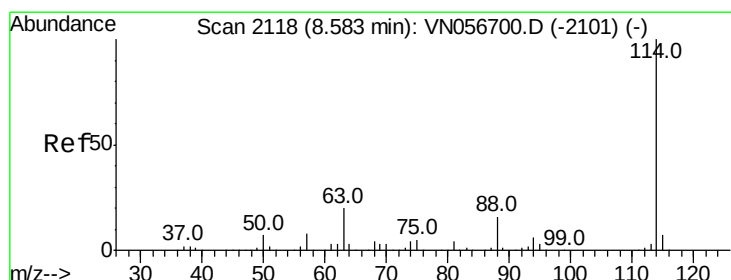
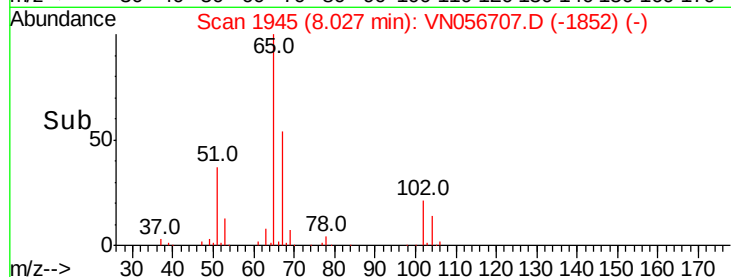
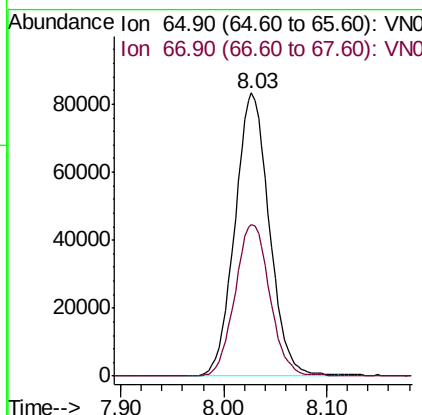
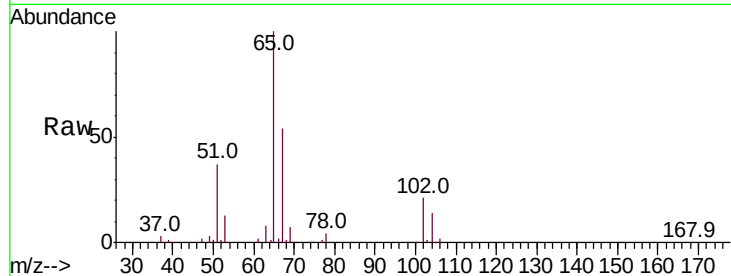
#33
 1,2-Dichloroethane-d4
 Concen: 52.813 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN056707.D
 Acq: 15 Jul 2019 13:20

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2019

Tot Ion	Ratio	Resp	Lower	Upper
65	100	193112		
67	54.1	0.0	109.0	

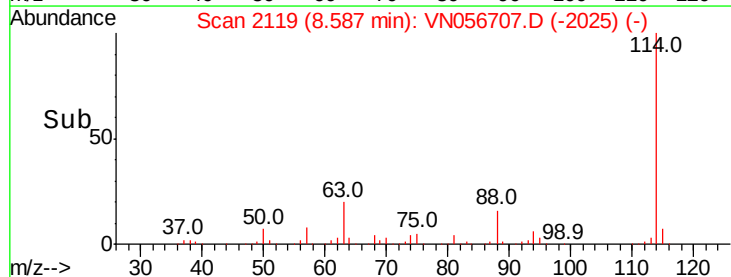
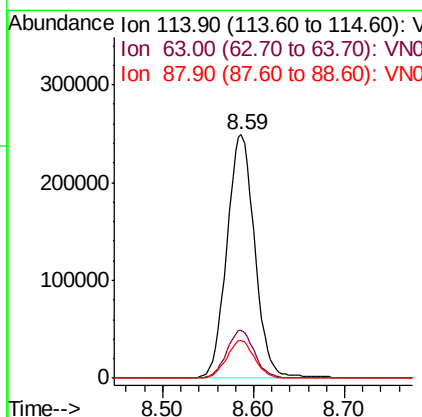
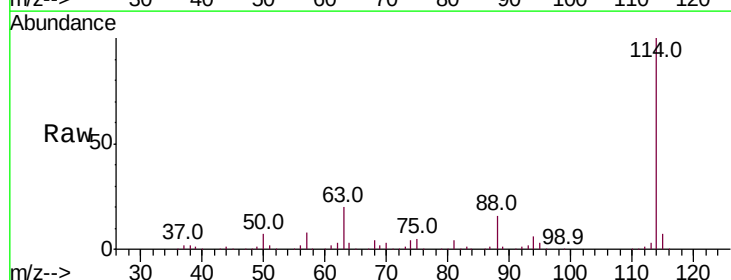
Manual Integrations
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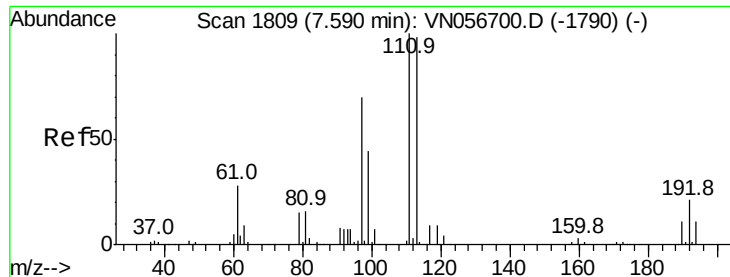
MMDadoda
 7/17/2019 1:31:32 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN056707.D
 Acq: 15 Jul 2019 13:20

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	529815		
63	19.6	0.0	39.4	
88	15.6	0.0	31.2	





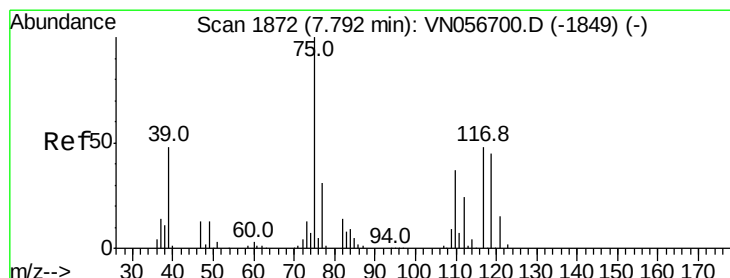
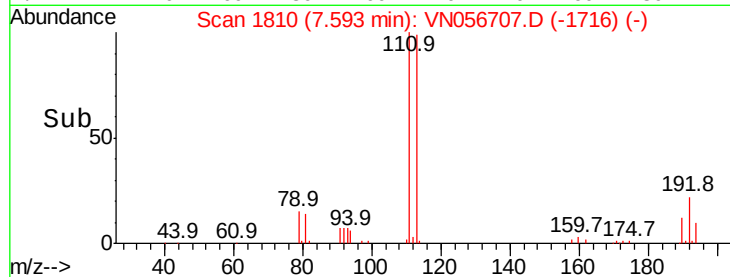
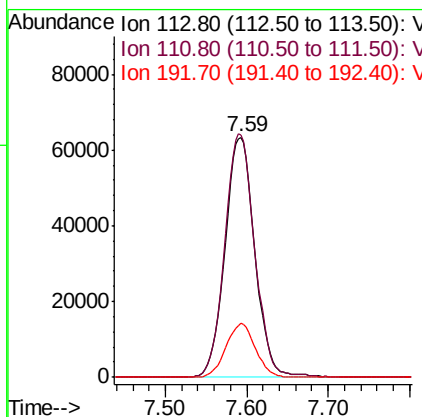
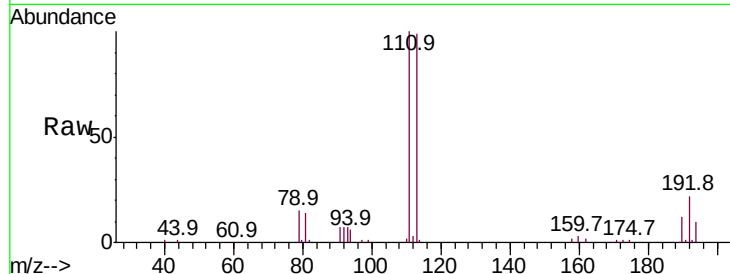
#35
Dibromofluoromethane
Concen: 49.452 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. 0.00 min
Lab File: VN056707.D
Acq: 15 Jul 2019 13:20

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

Tot Ion	Ratio	Resp	Lower	Upper
113	100	163051		
111	101.6	81.8	122.6	
192	22.0	17.5	26.3	

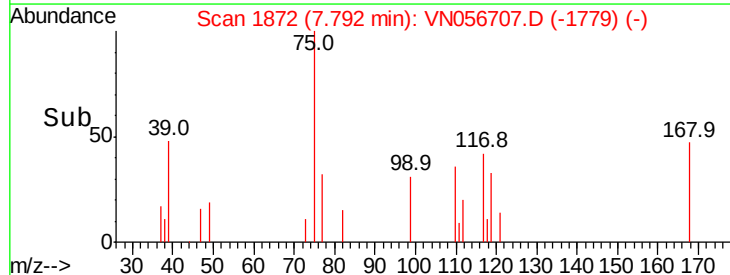
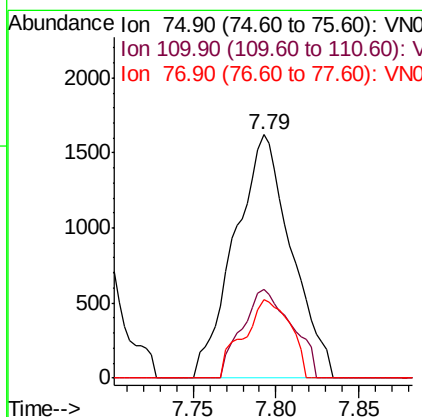
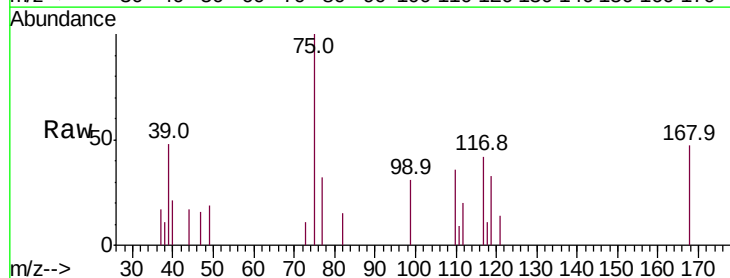
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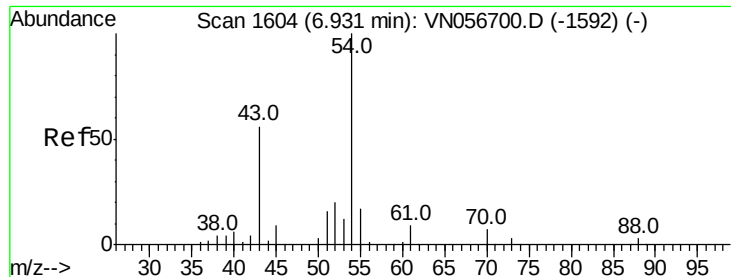
MMDadoda
7/17/2019 1:31:32 AM



#36
1,1-Dichloropropene
Concen: 0.784 ug/l
RT: 7.79 min Scan# 1872
Delta R.T. -0.00 min
Lab File: VN056707.D
Acq: 15 Jul 2019 13:20

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	3843		
110	32.0	18.4	55.4	
77	26.4	24.6	36.8	





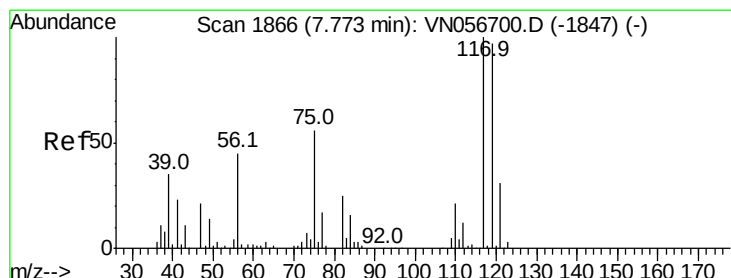
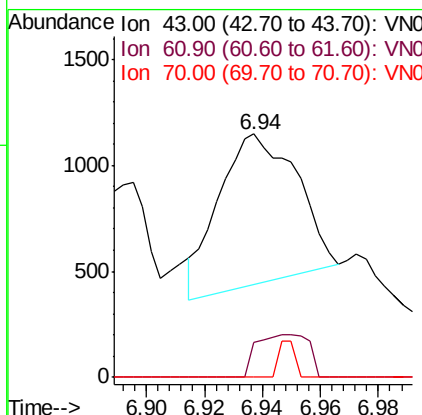
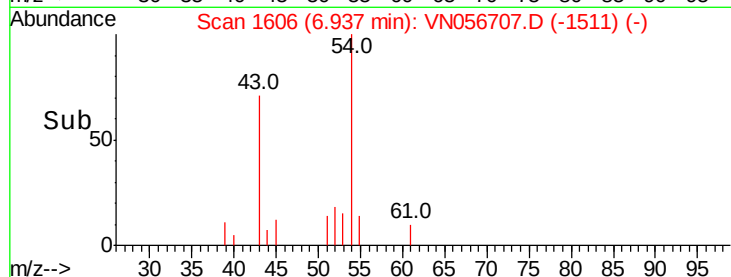
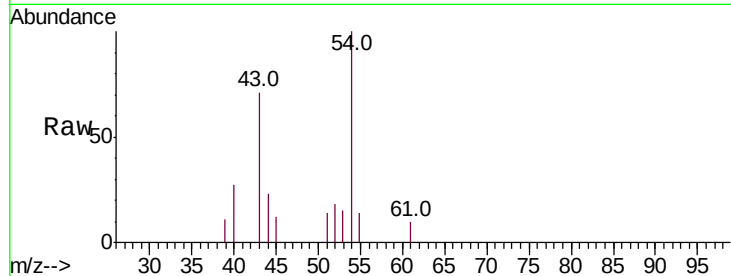
#37
Ethyl Acetate
Concen: 0.275 ug/l
RT: 6.94 min Scan# 1606
Delta R.T. 0.01 min
Lab File: VN056707.D
Acq: 15 Jul 2019 13:20

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
43	100		
61	18.8	11.3	16.9#
70	4.9	8.5	12.7#

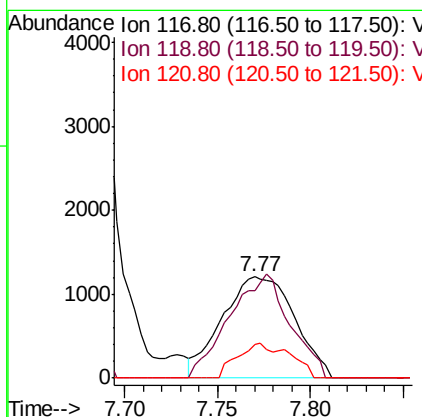
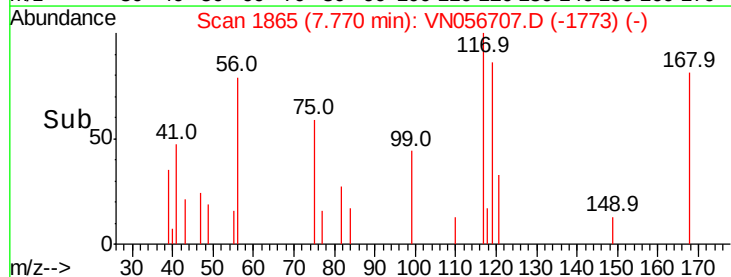
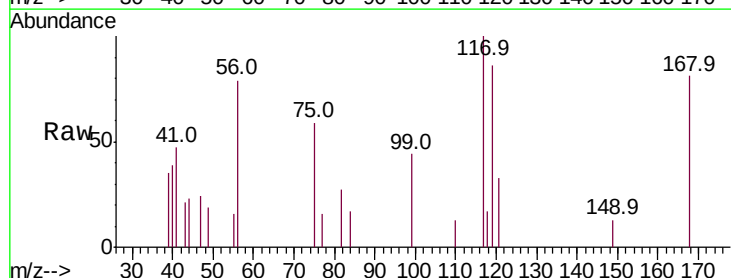
Manual Integrations
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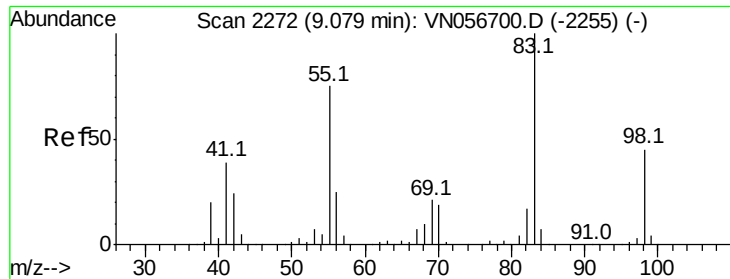
MMDadoda
7/17/2019 1:31:32 AM



#38
Carbon Tetrachloride
Concen: 0.713 ug/l
RT: 7.77 min Scan# 1865
Delta R.T. -0.00 min
Lab File: VN056707.D
Acq: 15 Jul 2019 13:20

Tgt Ion	Ratio	Lower	Upper
117	100		
119	85.9	77.5	116.3
121	32.7	24.7	37.1





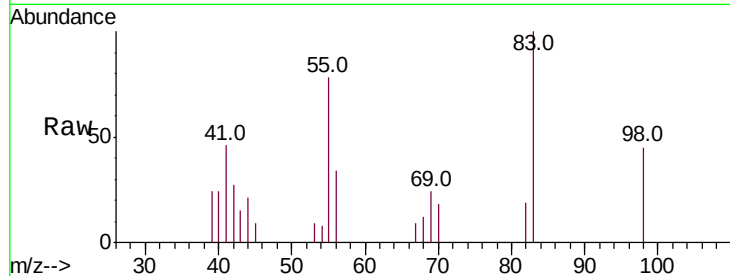
#39
Methylvlcyclohexane
Concen: 0.693 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VN056707.D
Acq: 15 Jul 2019 13:20

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

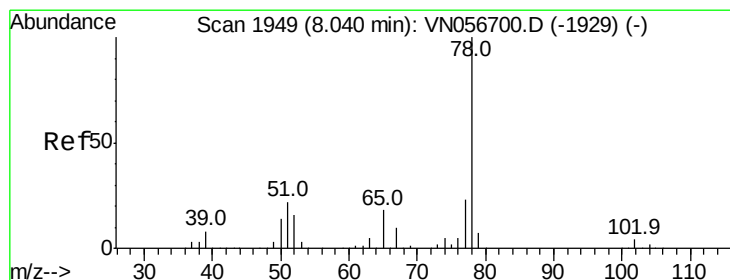
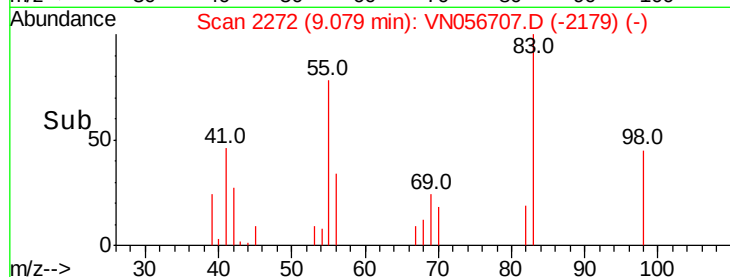
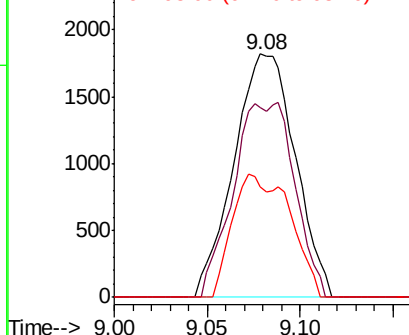
Tot Ion: 83 Resp: 4193
Ion Ratio Lower Upper
83 100
55 77.9 60.4 90.6
98 45.4 35.8 53.8

Manual Integrations
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MMDadoda
7/17/2019 1:31:32 AM

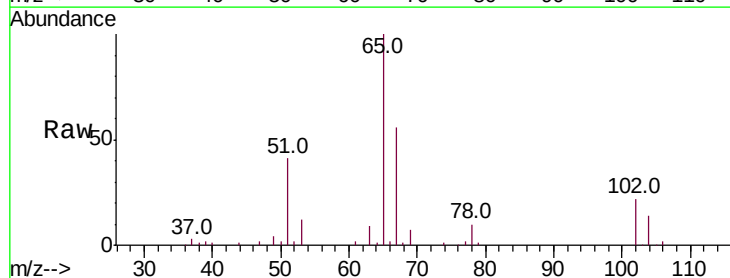


Abundance Ion 83.00 (82.70 to 83.70): VNO
Ion 55.00 (54.70 to 55.70): VNO
Ion 98.00 (97.70 to 98.70): VNO

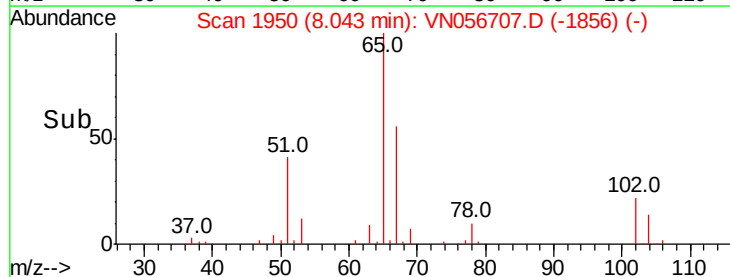
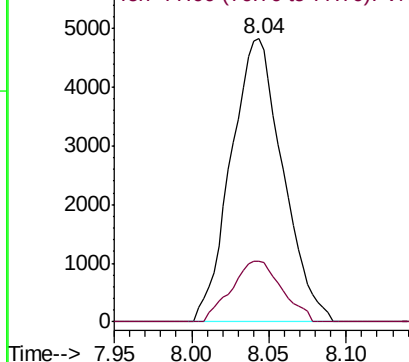


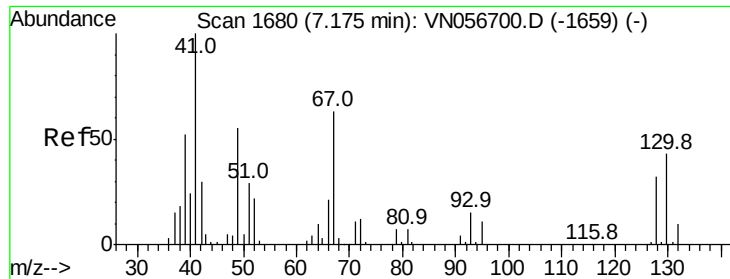
#40
Benzene
Concen: 0.749 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN056707.D
Acq: 15 Jul 2019 13:20

Tgt Ion: 78 Resp: 11251
Ion Ratio Lower Upper
78 100
77 21.6 18.6 27.8



Abundance Ion 78.00 (77.70 to 78.70): VNO
Ion 77.00 (76.70 to 77.70): VNO





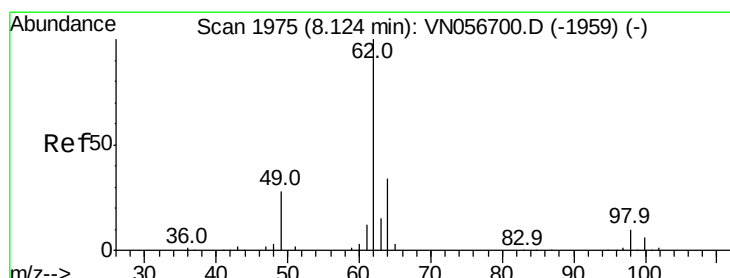
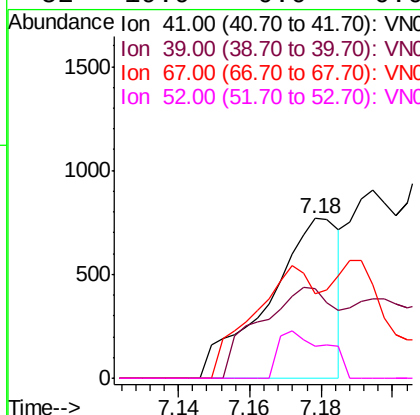
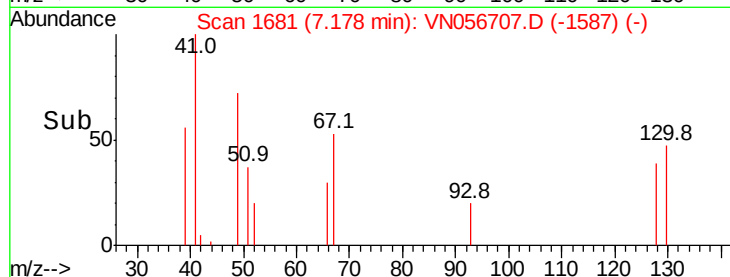
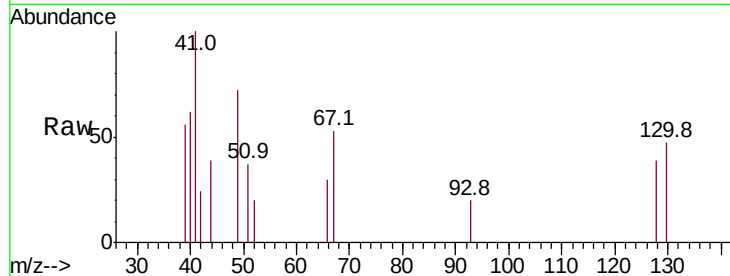
#41
Methacrylonitrile
Concen: 0.496 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VN056707.D
Acq: 15 Jul 2019 13:20

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
41	100		
39	60.6	0.0	0.0#
67	61.0	0.0	0.0#
52	19.9	0.0	0.0#

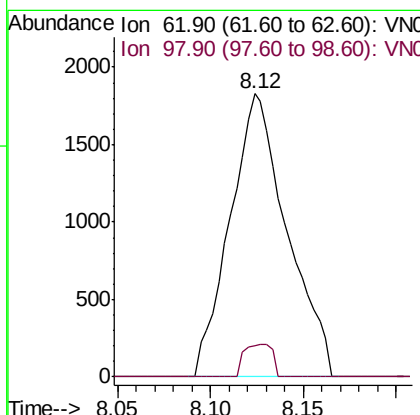
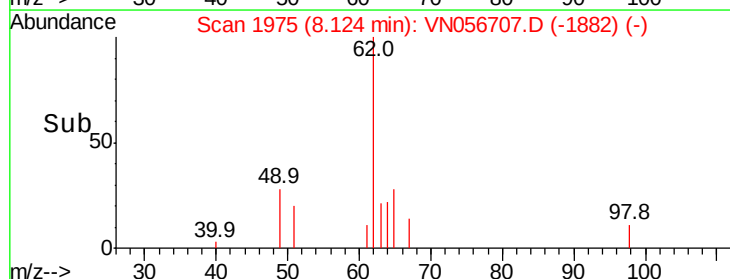
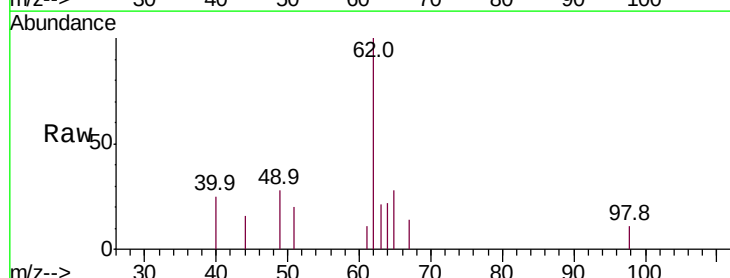
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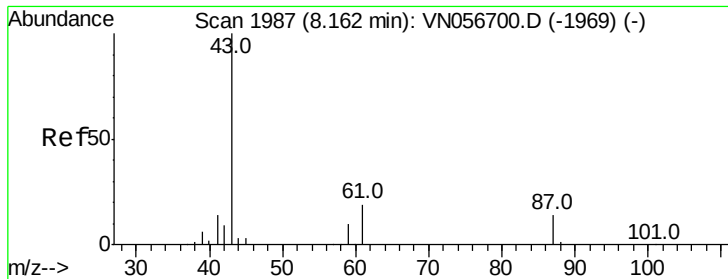
MMDadoda
7/17/2019 1:31:32 AM



#42
1,2-Dichloroethane
Concen: 0.824 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. -0.00 min
Lab File: VN056707.D
Acq: 15 Jul 2019 13:20

Tgt Ion	Ratio	Lower	Upper
62	100		
98	5.7	0.0	19.8





#43

Isopropyl Acetate

Concen: 0.690 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

Instrument :

MSVOA_N

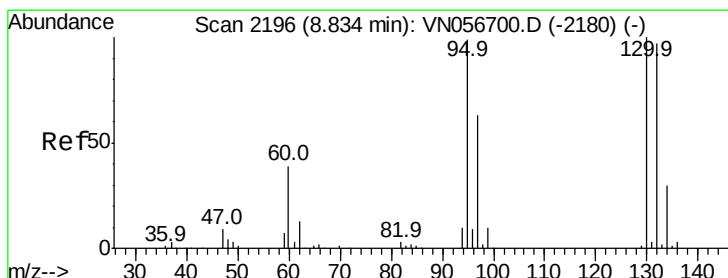
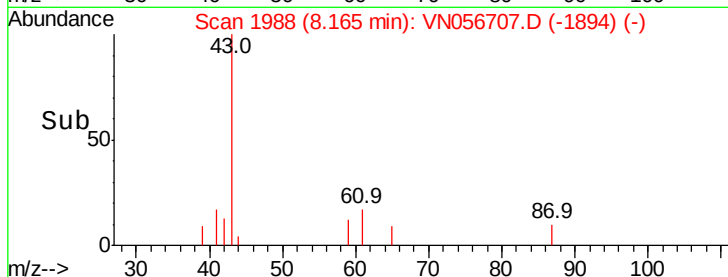
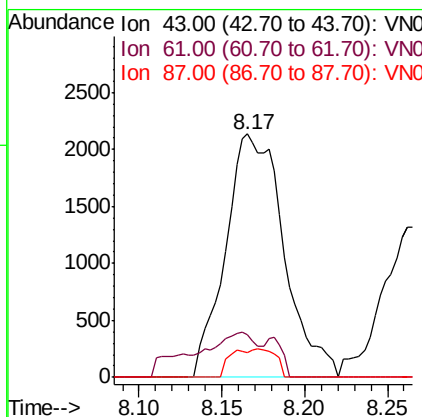
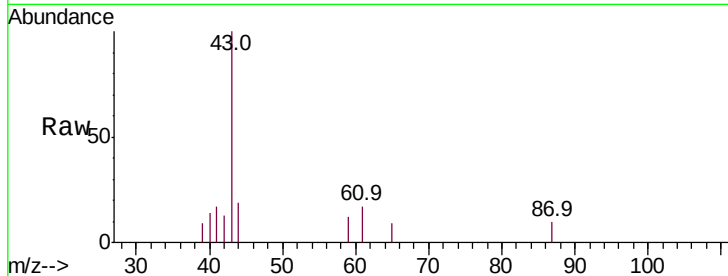
ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion:	43	Resp:	5244
Ion	Ratio	Lower	Upper
43	100		
61	19.2	22.3	33.5#
87	3.9	11.1	16.7#

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7/17/2019 1:31:32 AM



#44

Trichloroethene

Concen: 0.769 ug/l

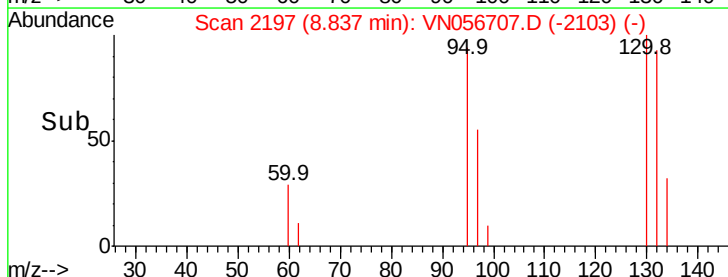
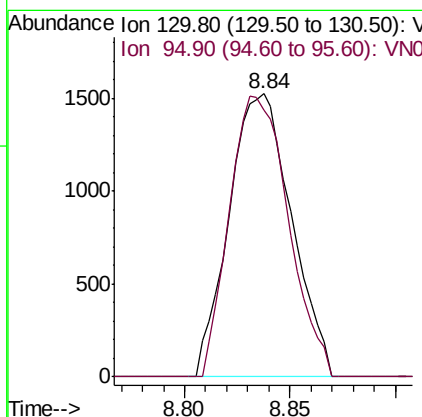
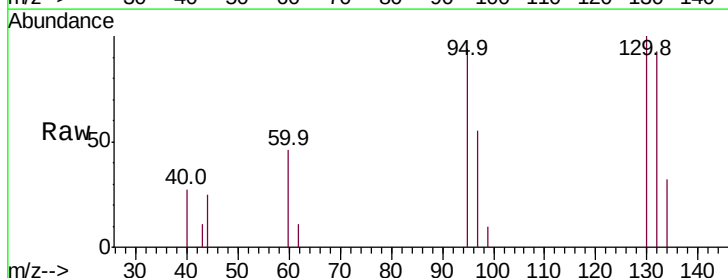
RT: 8.84 min Scan# 2197

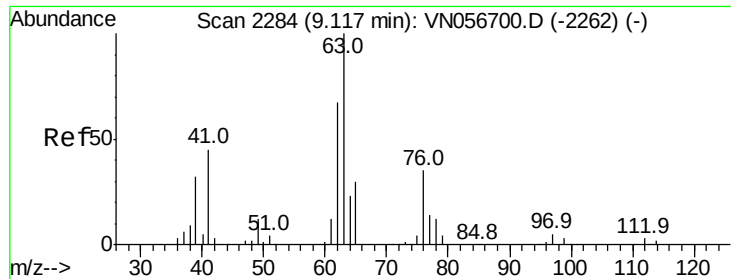
Delta R.T. 0.00 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

Tgt Ion:	130	Resp:	3136
Ion	Ratio	Lower	Upper
130	100		
95	94.2	0.0	197.2





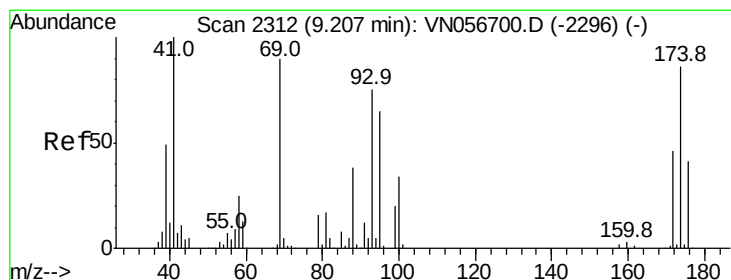
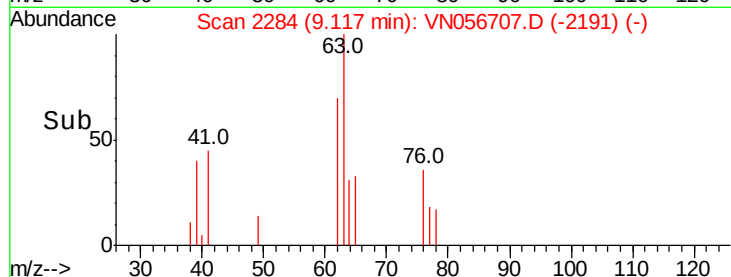
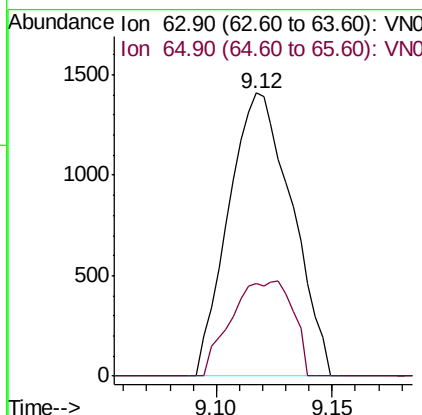
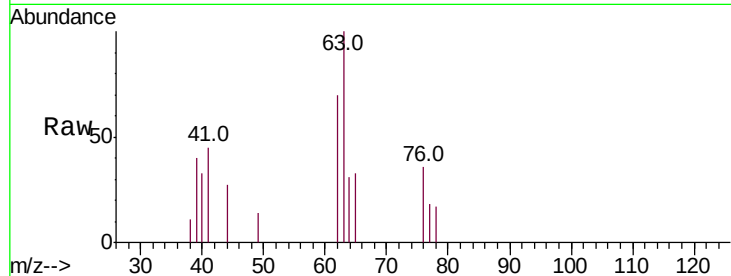
#45
 1,2-Dichloropropane
 Concen: 0.670 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. -0.00 min
 Lab File: VN056707.D
 Acq: 15 Jul 2019 13:20

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2019

Tot Ion: 63 Resp: 2676
 Ion Ratio Lower Upper
 63 100
 65 32.9 24.0 36.0

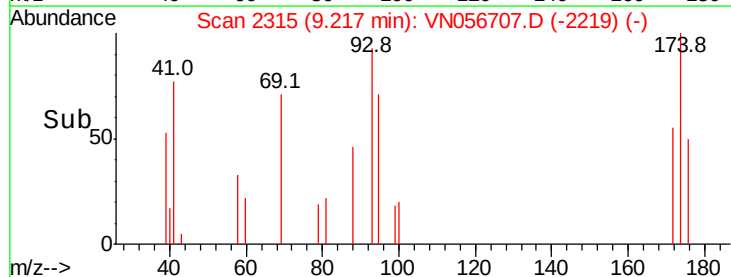
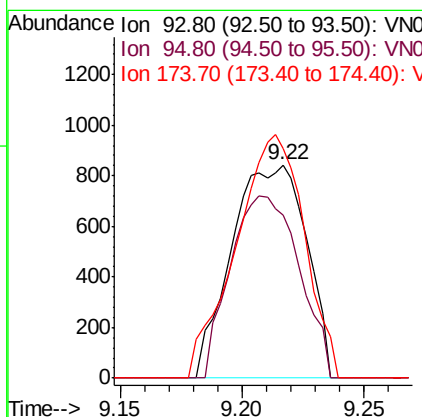
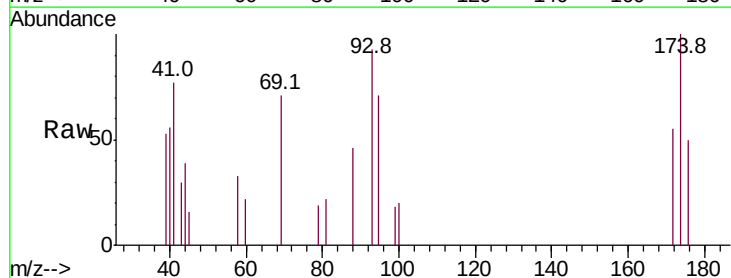
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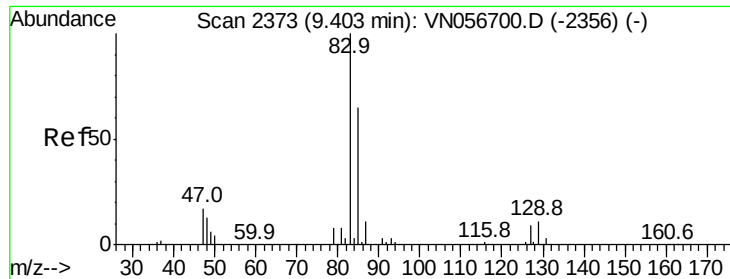
MMDadoda
 7/17/2019 1:31:32 AM



#46
 Dibromomethane
 Concen: 0.723 ug/l
 RT: 9.22 min Scan# 2315
 Delta R.T. 0.01 min
 Lab File: VN056707.D
 Acq: 15 Jul 2019 13:20

Tgt Ion: 93 Resp: 1788
 Ion Ratio Lower Upper
 93 100
 95 79.0 67.4 101.0
 174 104.9 90.3 135.5





#47

Bromodichloromethane

Concen: 0.656 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

Instrument :

MSVOA_N

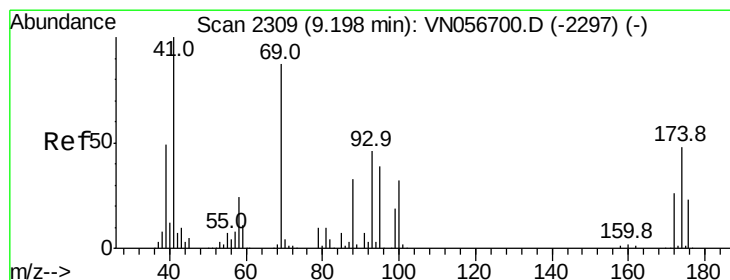
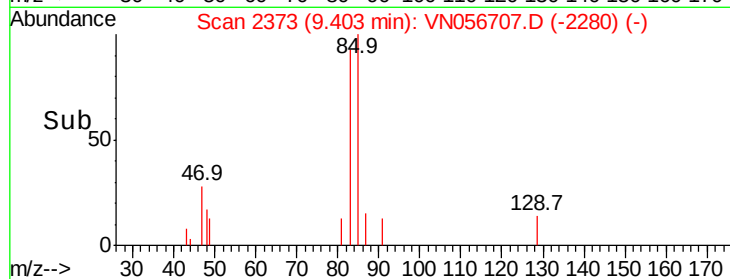
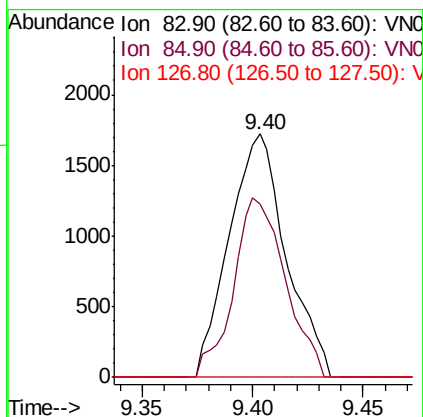
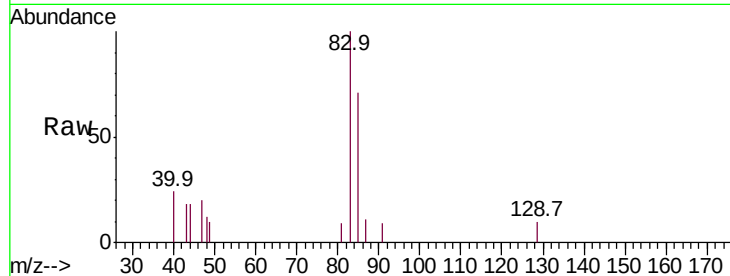
ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion:	83	Resp:	3084
Ion	Ratio	Lower	Upper
83	100		
85	71.4	52.3	78.5
127	0.0	7.6	11.4#

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#48

Methyl methacrylate

Concen: 0.680 ug/l

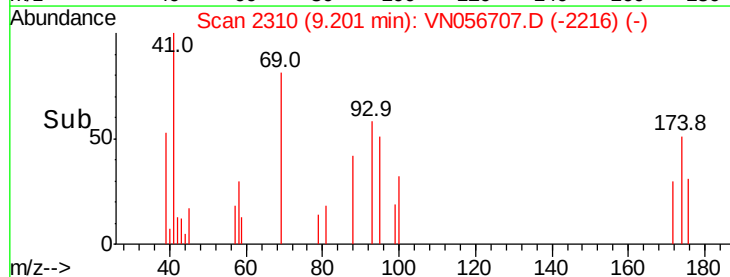
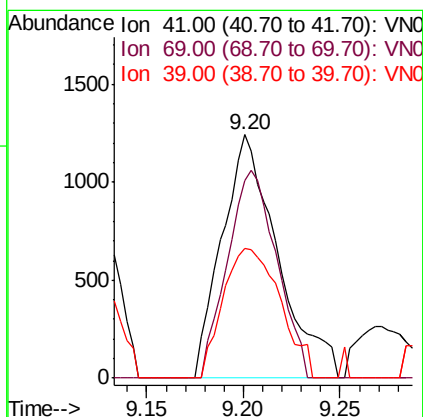
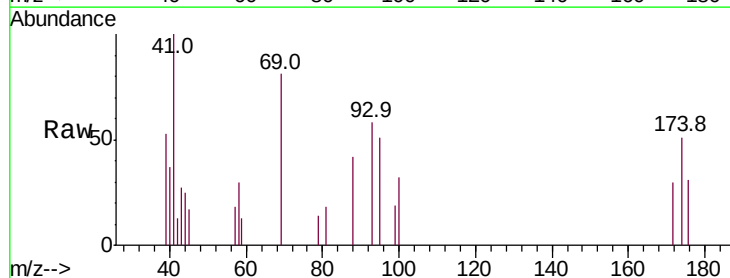
RT: 9.20 min Scan# 2310

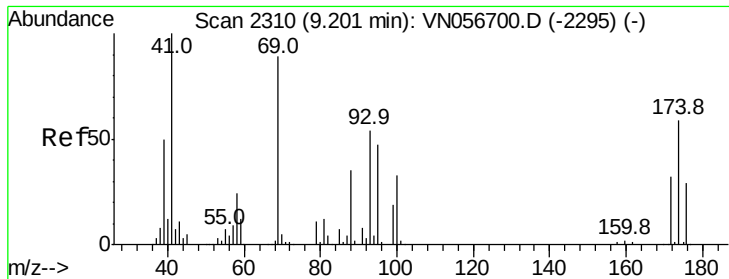
Delta R.T. 0.00 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

Tgt Ion:	41	Resp:	2497
Ion	Ratio	Lower	Upper
41	100		
69	74.8	71.4	107.0
39	54.5	41.2	61.8





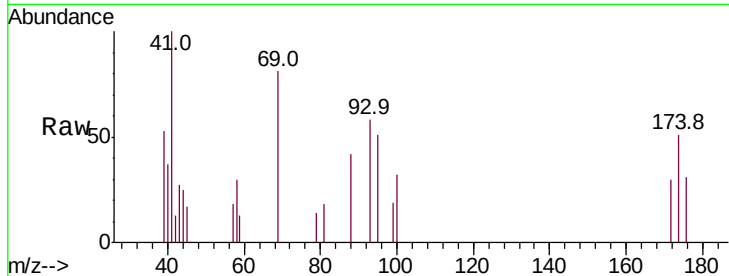
#49
 1,4-Dioxane
 Concen: 11.448 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. -0.00 min
 Lab File: VN056707.D
 Acq: 15 Jul 2019 13:20

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2019

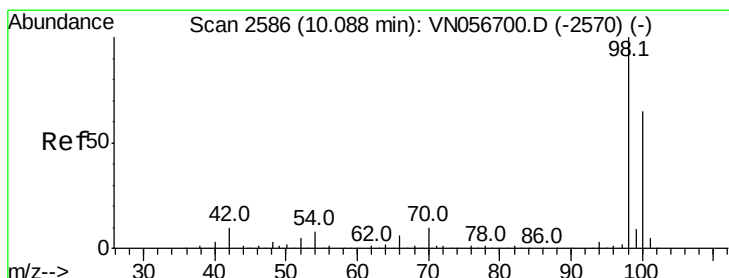
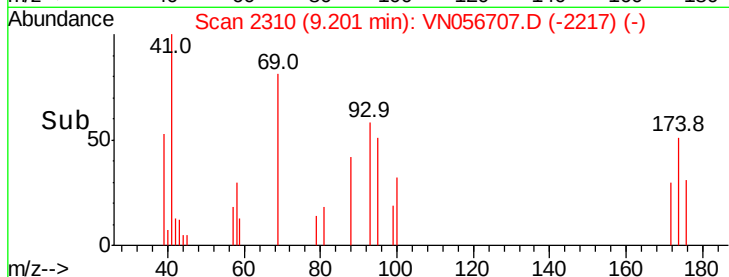
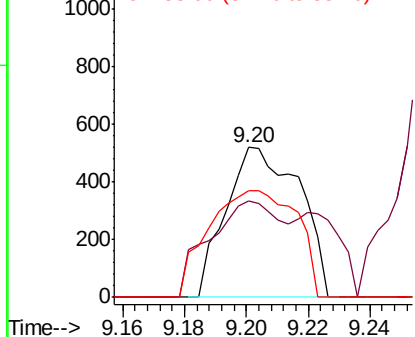
Tot Ion: 88 Resp: 863
 Ion Ratio Lower Upper
 88 100
 43 63.6 23.7 35.5#
 58 85.2 55.6 83.4#

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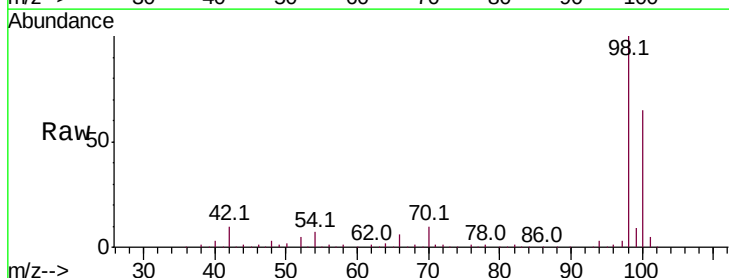


Abundance Ion 88.00 (87.70 to 88.70): VN0
 Ion 43.00 (42.70 to 43.70): VN0
 Ion 58.00 (57.70 to 58.70): VN0

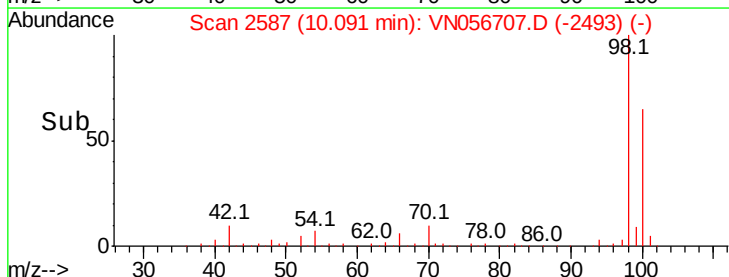
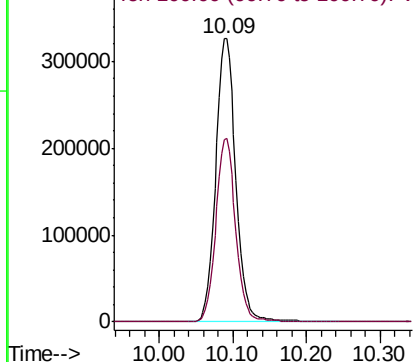


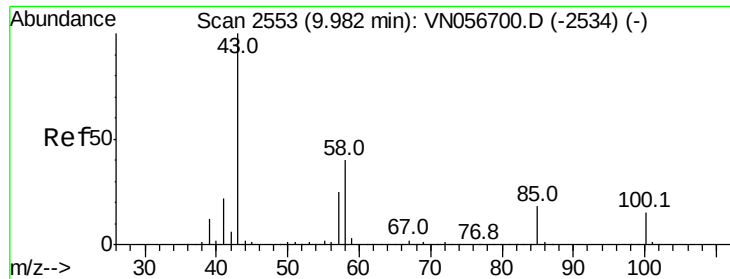
#50
 Toluene-d8
 Concen: 48.186 ug/l
 RT: 10.09 min Scan# 2587
 Delta R.T. 0.00 min
 Lab File: VN056707.D
 Acq: 15 Jul 2019 13:20

Tgt Ion: 98 Resp: 613617
 Ion Ratio Lower Upper
 98 100
 100 64.1 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VN0
 Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 3.535 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion: 43 Resp: 17394

Ion Ratio Lower Upper

43 100

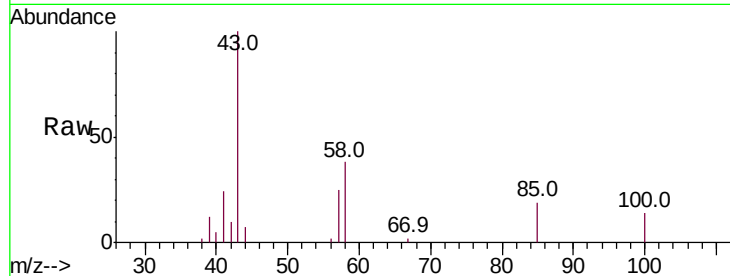
58 37.2 32.0 48.0

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

9.99

8000

6000

4000

2000

0

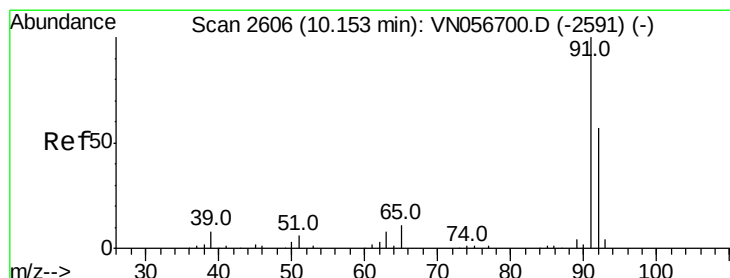
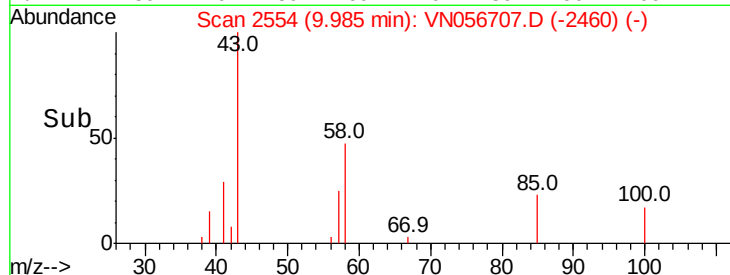
Time-->

9.90

10.00

10.10

10.20



#52

Toluene

Concen: 0.688 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN056707.D

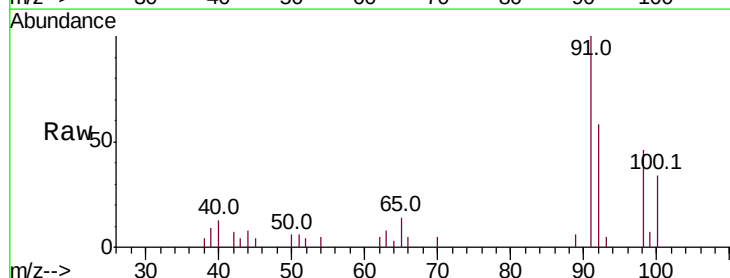
Acq: 15 Jul 2019 13:20

Tgt Ion: 92 Resp: 6134

Ion Ratio Lower Upper

92 100

91 175.8 139.9 209.9



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

10.16

6000

4000

2000

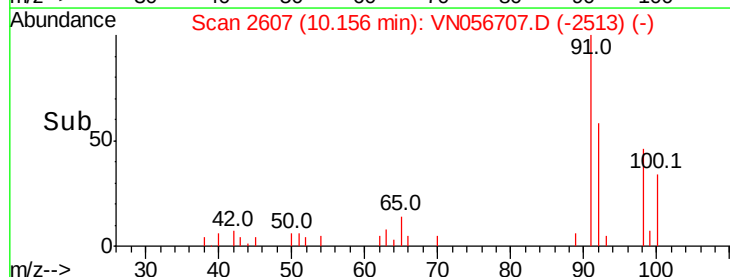
0

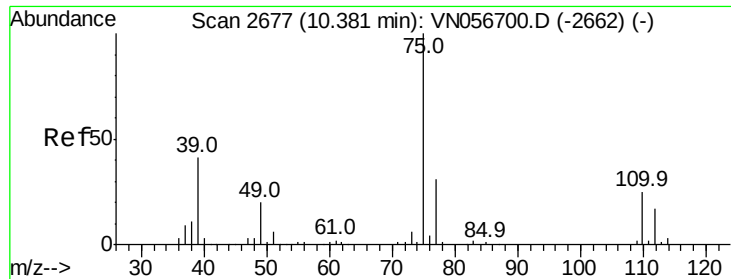
Time-->

10.10

10.15

10.20





#53

t-1,3-Dichloropropene

Concen: 0.640 ug/l

RT: 10.38 min Scan# 2678

Delta R.T. 0.00 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion: 75 Resp: 3140

Ion Ratio Lower Upper

75 100

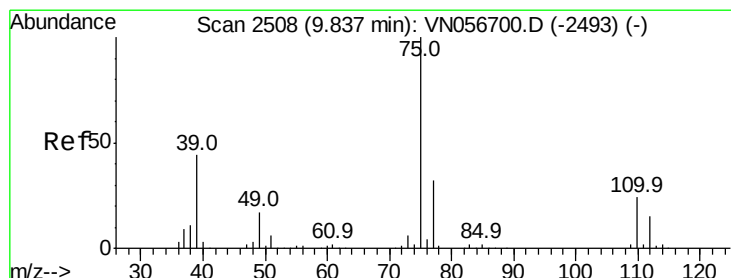
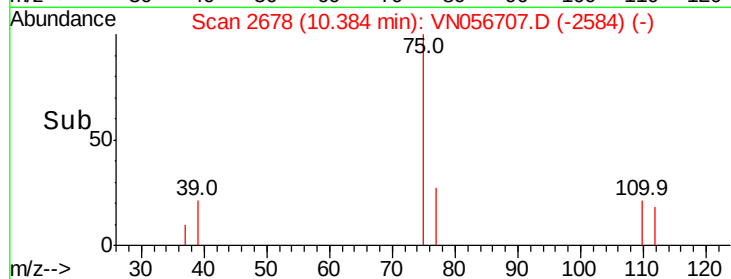
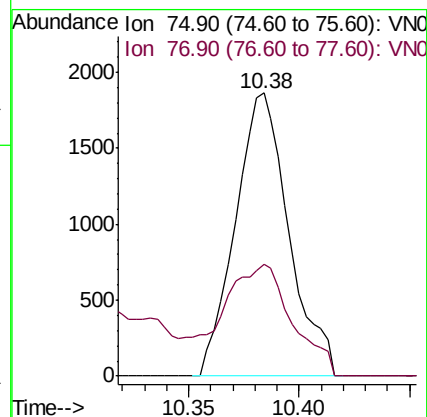
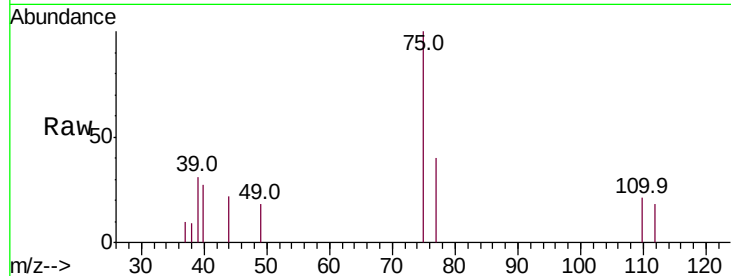
77 39.7 25.0 37.6#

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#54

cis-1,3-Dichloropropene

Concen: 0.603 ug/l

RT: 9.84 min Scan# 2508

Delta R.T. -0.00 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

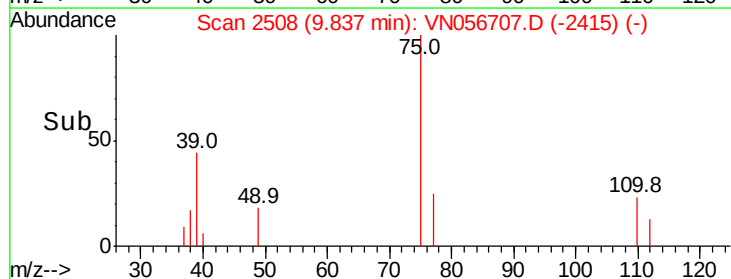
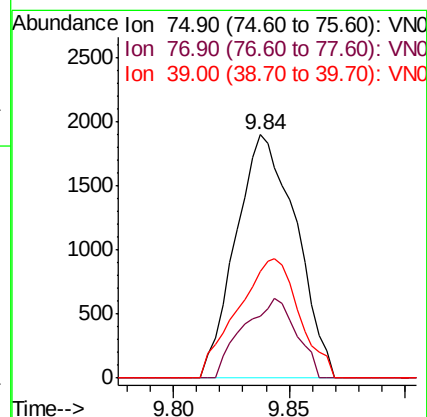
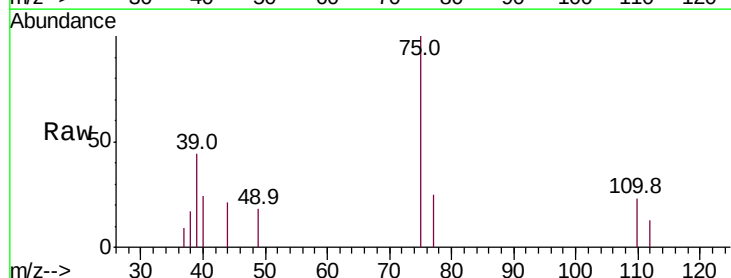
Tgt Ion: 75 Resp: 3429

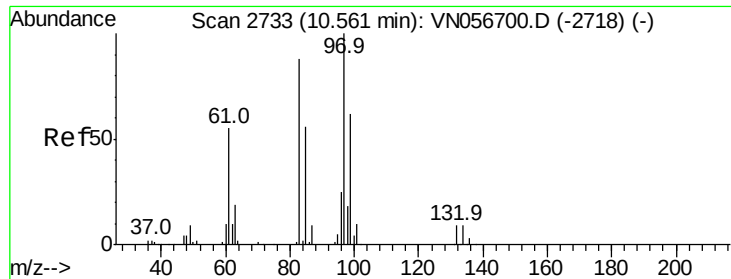
Ion Ratio Lower Upper

75 100

77 25.3 26.0 39.0#

39 43.7 35.1 52.7





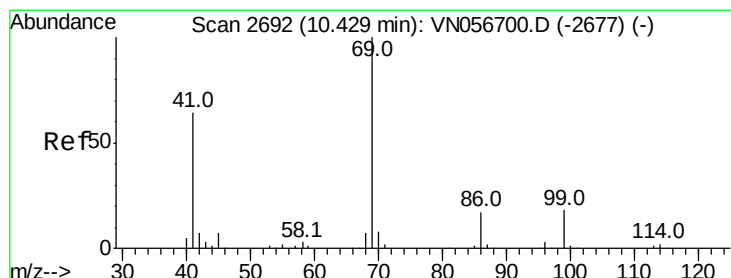
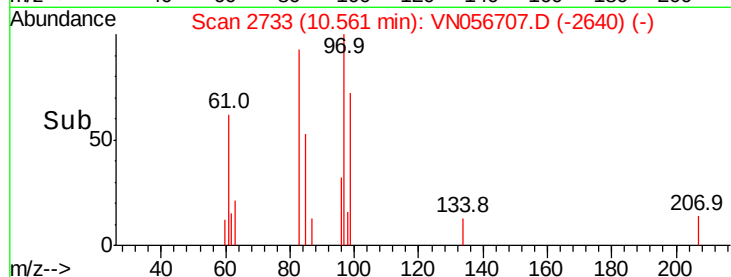
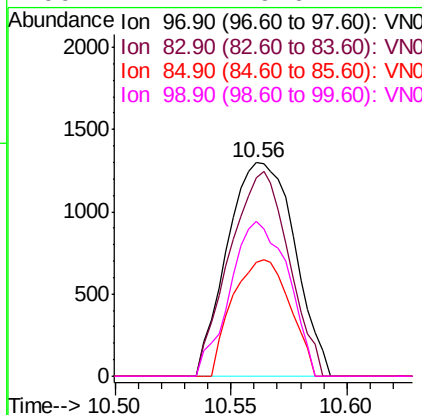
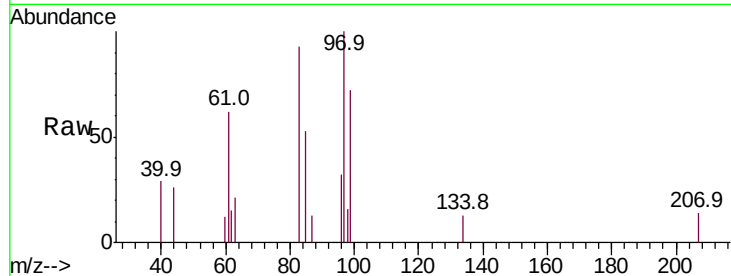
#55
1,1,2-Trichloroethane
Concen: 0.701 ug/l
RT: 10.56 min Scan# 2733
Delta R.T. -0.00 min
Lab File: VN056707.D
Acq: 15 Jul 2019 13:20

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
97	100		
83	92.7	70.3	105.5
85	53.0	44.8	67.2
99	72.4	49.6	74.4

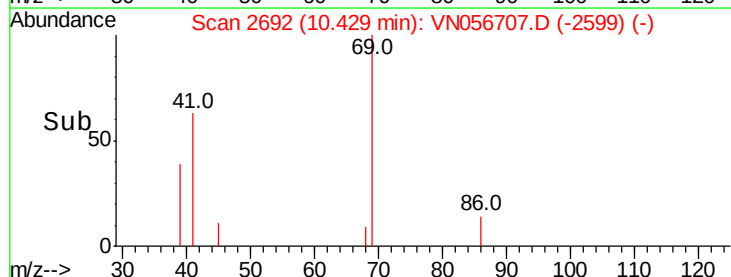
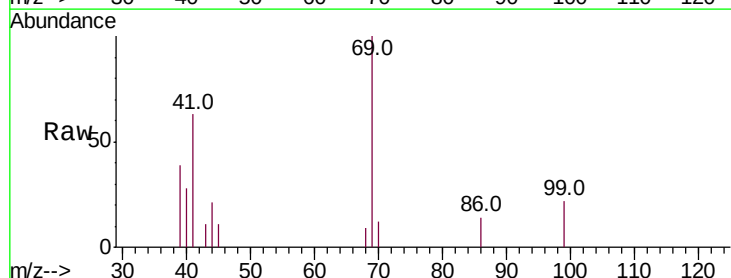
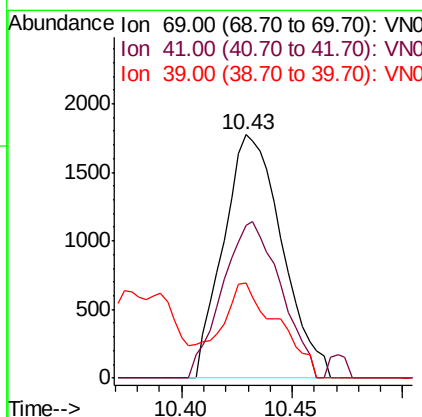
Manual Integrations
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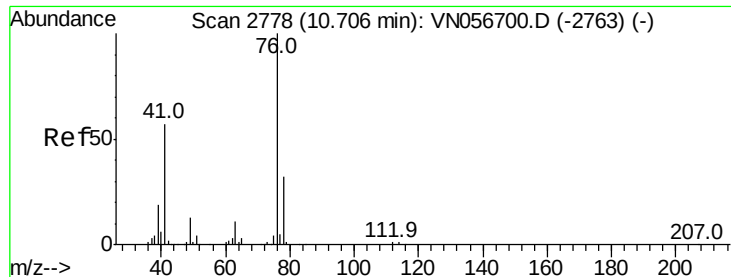
MMDadoda
7/17/2019 1:31:32 AM



#56
Ethyl methacrylate
Concen: 0.605 ug/l
RT: 10.43 min Scan# 2692
Delta R.T. -0.00 min
Lab File: VN056707.D
Acq: 15 Jul 2019 13:20

Tgt Ion	Ratio	Lower	Upper
69	100		
41	64.4	51.0	76.4
39	36.8	24.6	36.8





#57

1,3-Dichloropropane

Concen: 0.697 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion: 76 Resp: 4259

Ion Ratio Lower Upper

76 100

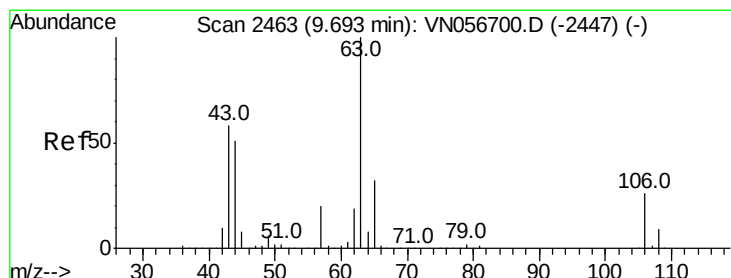
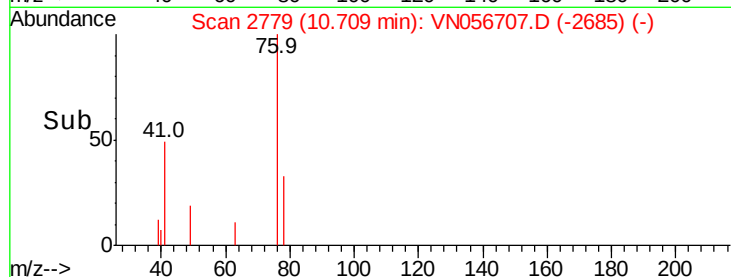
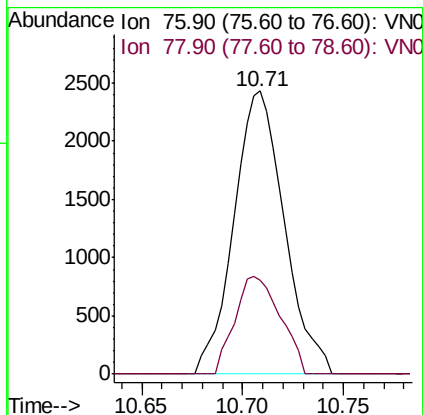
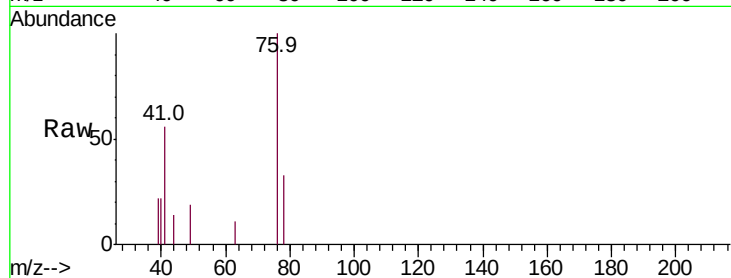
78 31.2 26.0 39.0

Manual Integrations

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MMDadoda

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#58

2-Chloroethyl Vinyl ether

Concen: 3.017 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN056707.D

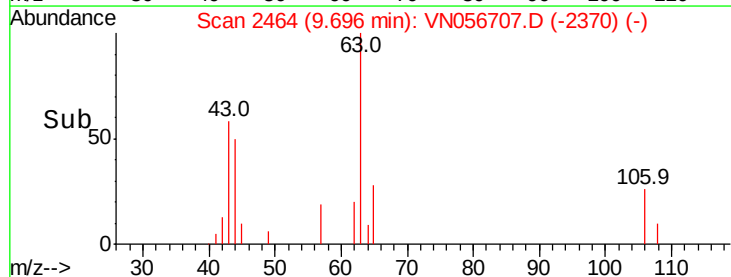
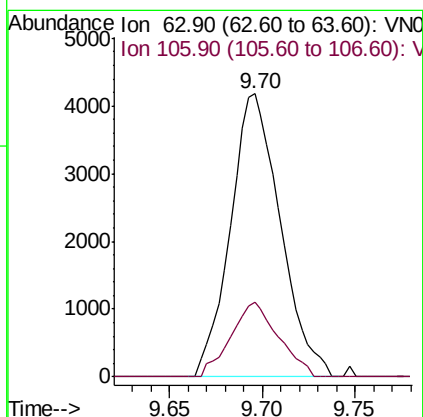
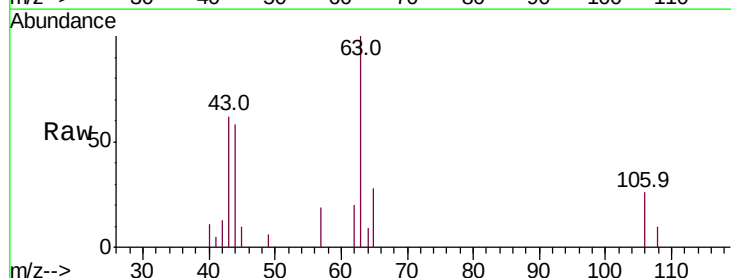
Acq: 15 Jul 2019 13:20

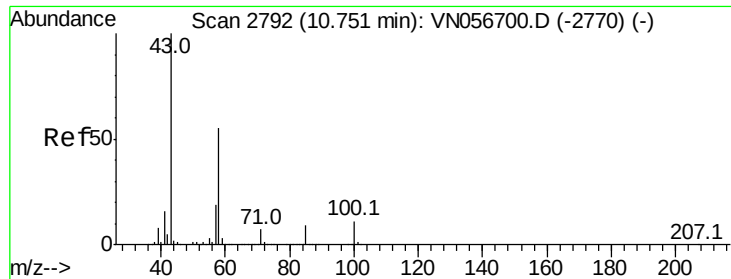
Tgt Ion: 63 Resp: 7812

Ion Ratio Lower Upper

63 100

106 25.2 21.2 31.8





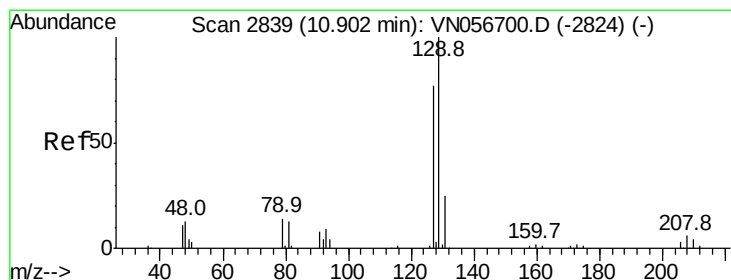
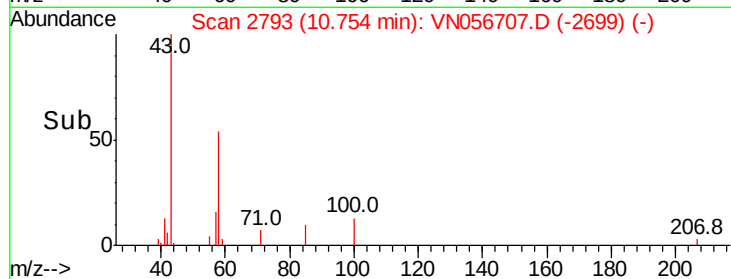
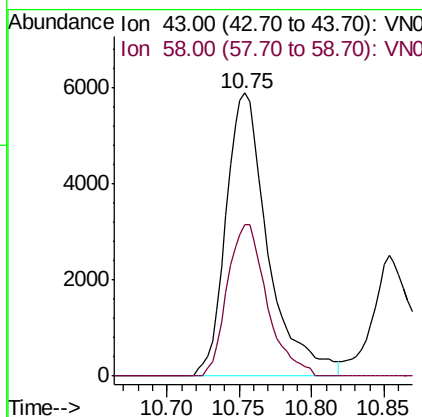
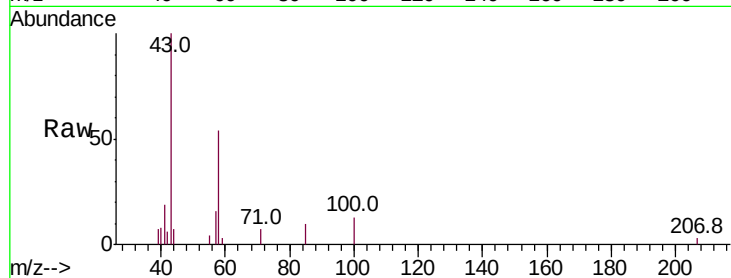
#59
2-Hexanone
Concen: 3.361 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN056707.D
Acq: 15 Jul 2019 13:20

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

Tot Ion: 43 Resp: 11865
Ion Ratio Lower Upper
43 100
58 50.4 27.9 83.6

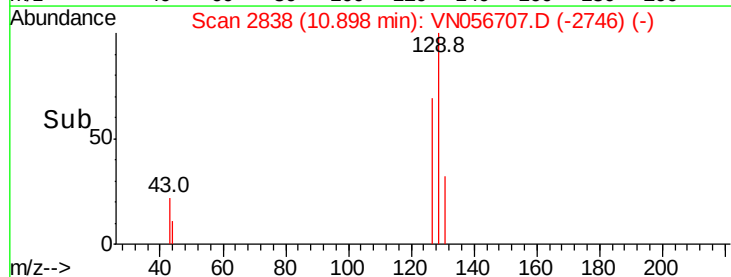
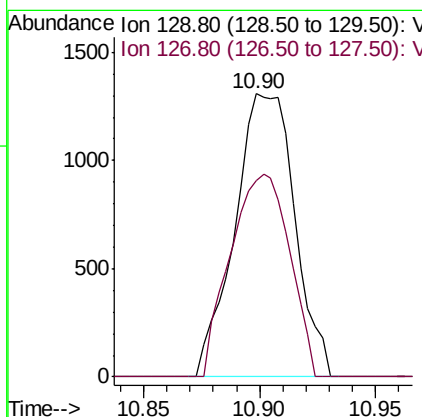
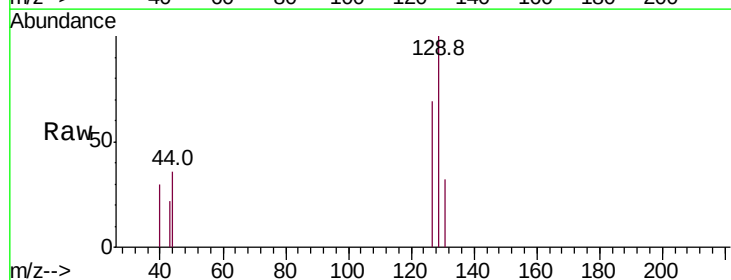
Manual Integrations
APPROVED

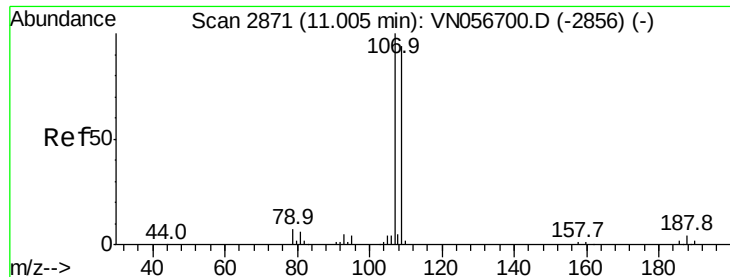
MMDadoda
7/17/2019 1:31:32 AM



#60
Dibromochloromethane
Concen: 0.640 ug/l
RT: 10.90 min Scan# 2838
Delta R.T. -0.00 min
Lab File: VN056707.D
Acq: 15 Jul 2019 13:20

Tgt Ion: 129 Resp: 2356
Ion Ratio Lower Upper
129 100
127 70.9 38.2 114.6





#61

1,2-Dibromoethane

Concen: 0.654 ug/l

RT: 11.00 min Scan# 2871

Delta R.T. -0.00 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion:107 Resp: 2432

Ion Ratio Lower Upper

107 100

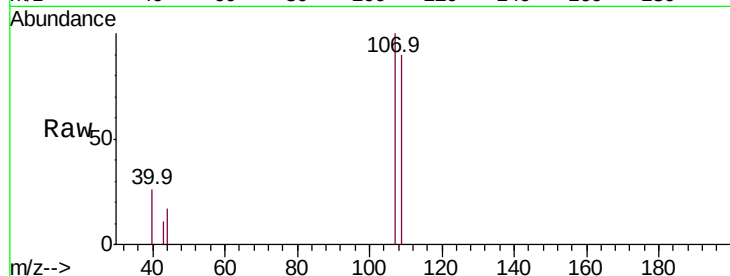
109 98.6 76.2 114.4

Manual Integrations

APPROVED

MMDadoda

7/17/2019 1:31:32 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.00

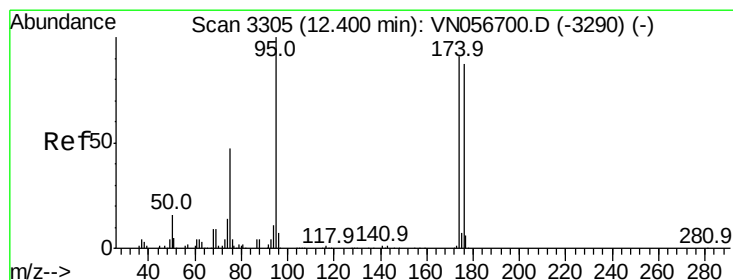
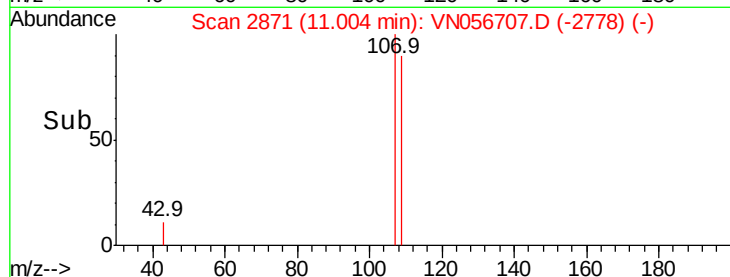
1500

1000

500

0

Time--> 10.95 11.00 11.05



#62

4-Bromofluorobenzene

Concen: 41.704 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

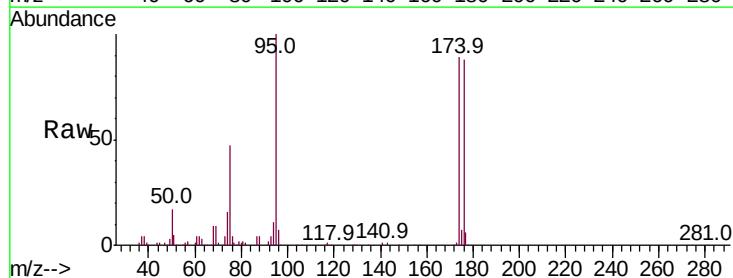
Tgt Ion: 95 Resp: 179097

Ion Ratio Lower Upper

95 100

174 88.5 0.0 180.0

176 86.5 0.0 173.2



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

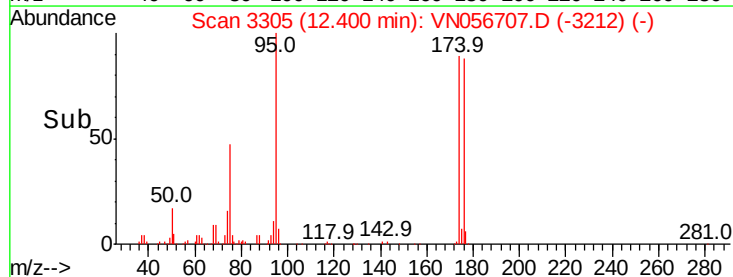
12.40

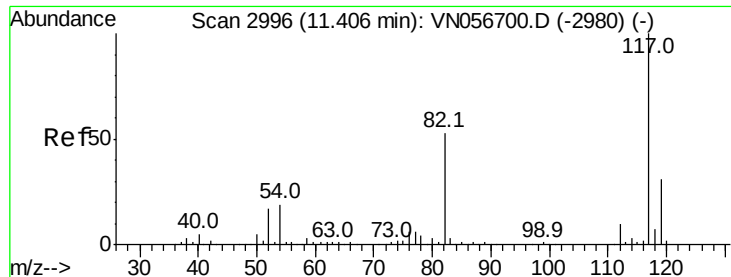
100000

50000

0

Time--> 12.30 12.40 12.50





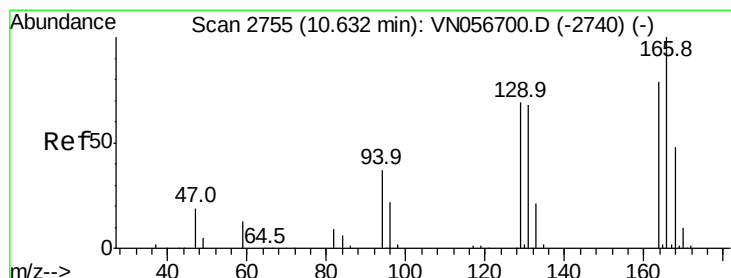
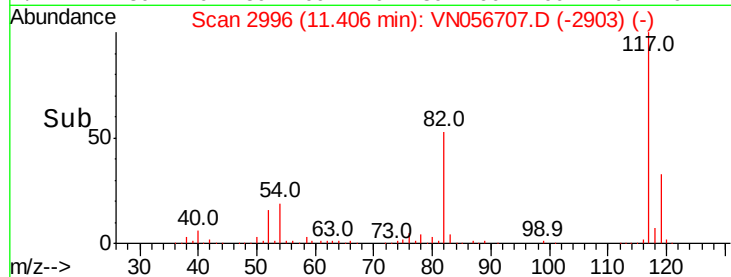
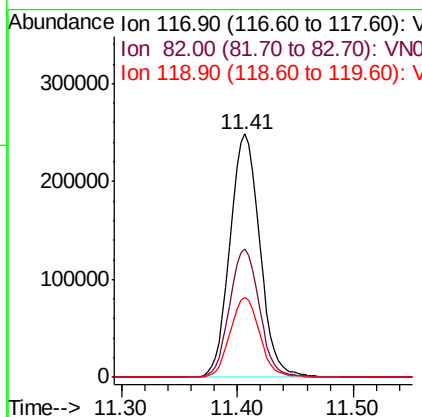
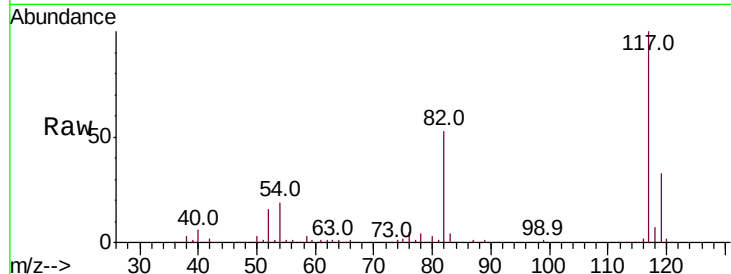
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN056707.D
Acq: 15 Jul 2019 13:20

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.5	42.2	63.2
119	32.8	25.2	37.8

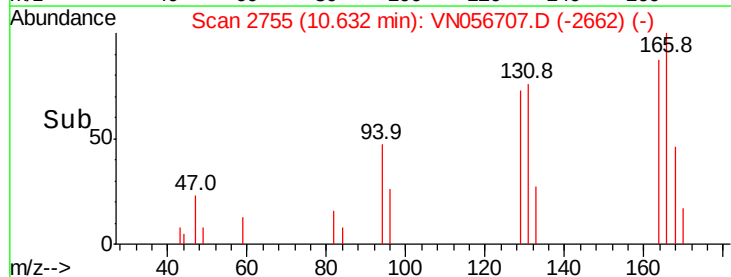
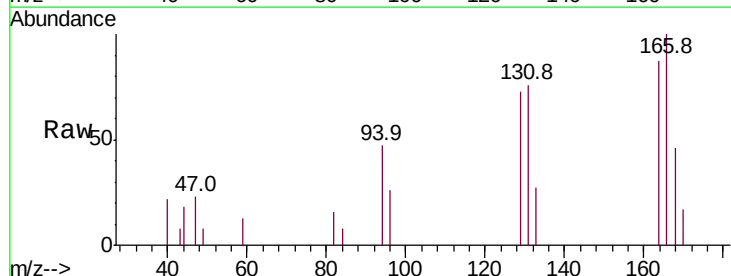
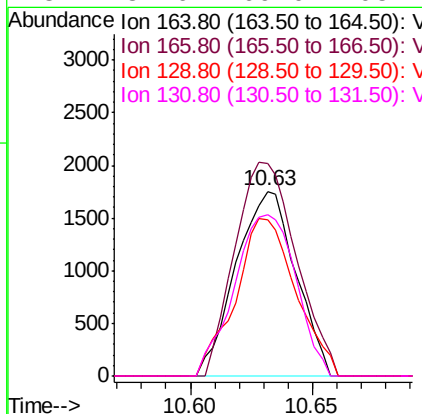
Manual Integrations
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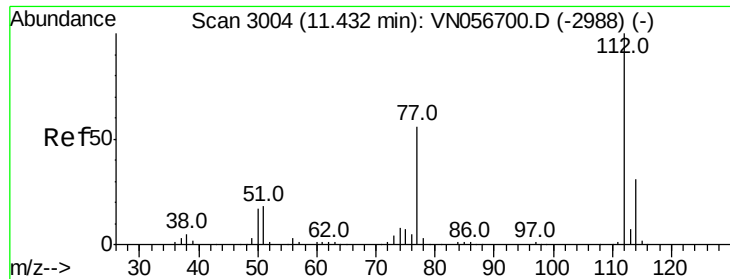
MMDadoda
7/17/2019 1:31:32 AM



#64
Tetrachloroethene
Concen: 0.780 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN056707.D
Acq: 15 Jul 2019 13:20

Tgt Ion	Ratio	Lower	Upper
164	100		
166	115.0	101.4	152.2
129	84.3	69.6	104.4
131	87.6	69.0	103.4





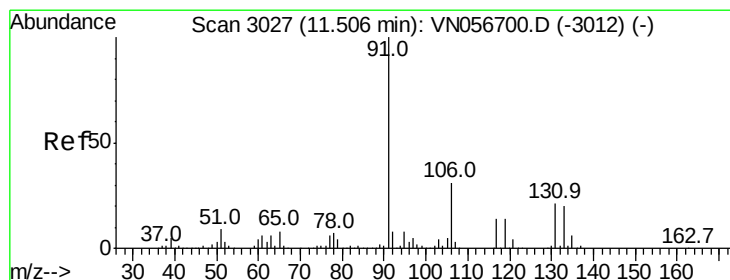
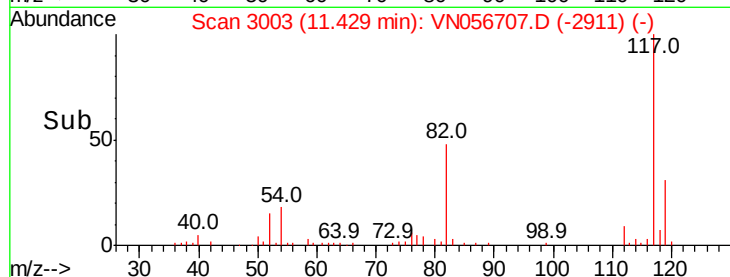
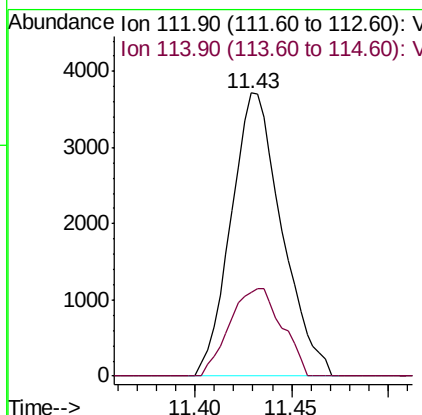
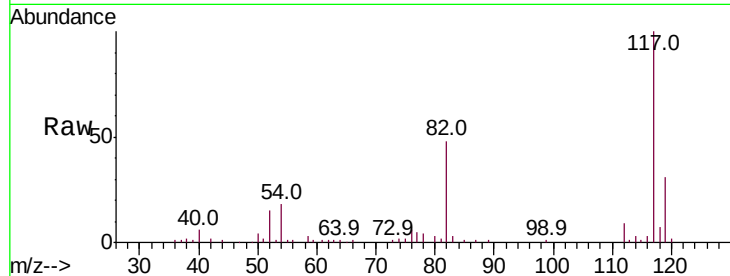
#65
Chlorobenzene
Concen: 0.750 ug/l
RT: 11.43 min Scan# 3003
Delta R.T. -0.00 min
Lab File: VN056707.D
Acq: 15 Jul 2019 13:20

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

Tot Ion:112 Resp: 6785
Ion Ratio Lower Upper
112 100
114 29.5 25.2 37.8

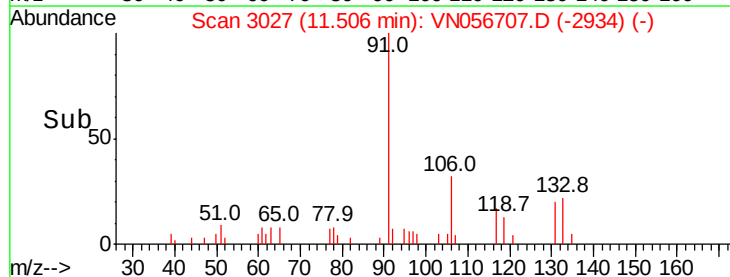
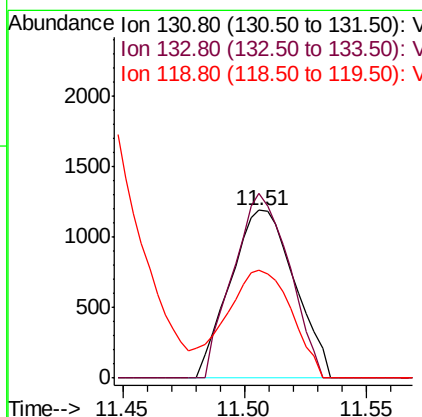
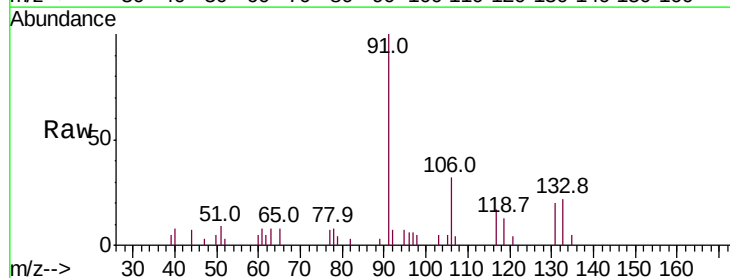
Manual Integrations
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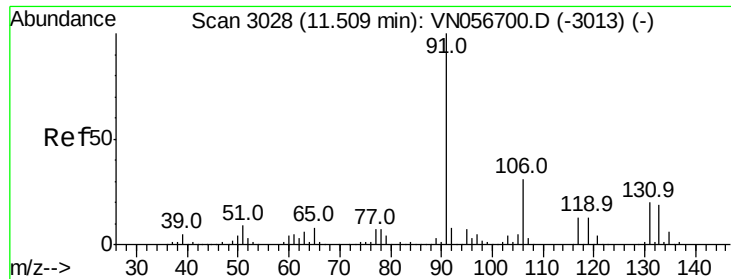
MMDadoda
7/17/2019 1:31:32 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 0.652 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. -0.00 min
Lab File: VN056707.D
Acq: 15 Jul 2019 13:20

Tgt Ion:131 Resp: 2173
Ion Ratio Lower Upper
131 100
133 96.5 46.9 140.7
119 0.0 32.8 98.3#





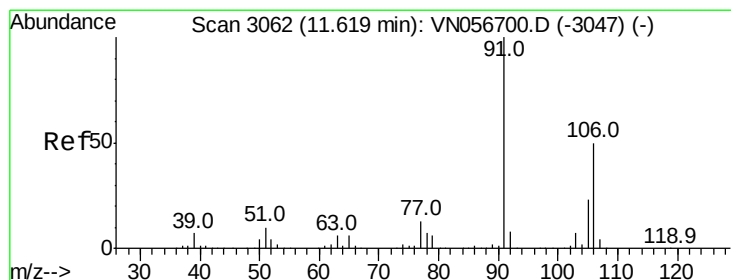
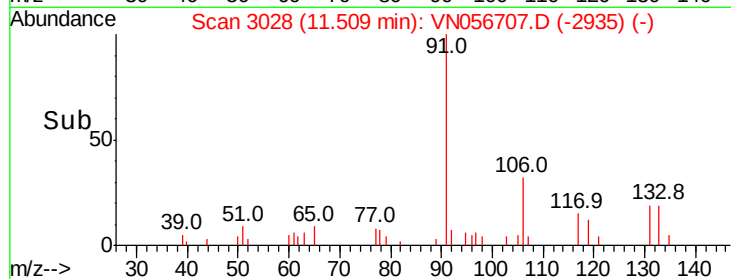
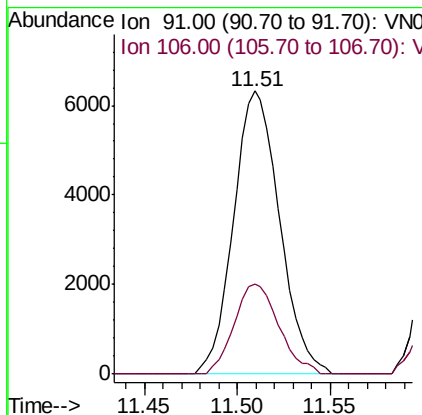
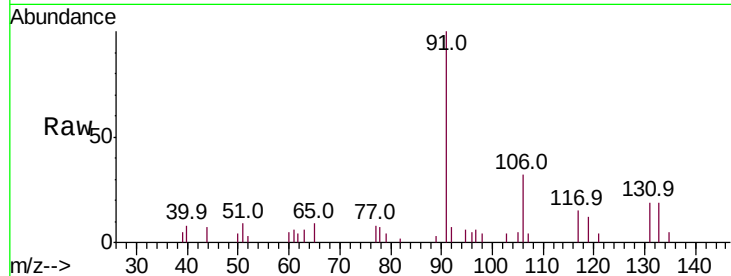
#67
Ethyl Benzene
Concen: 0.688 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN056707.D
Acq: 15 Jul 2019 13:20

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

Tot Ion: 91 Resp: 10936
Ion Ratio Lower Upper
91 100
106 32.0 24.8 37.2

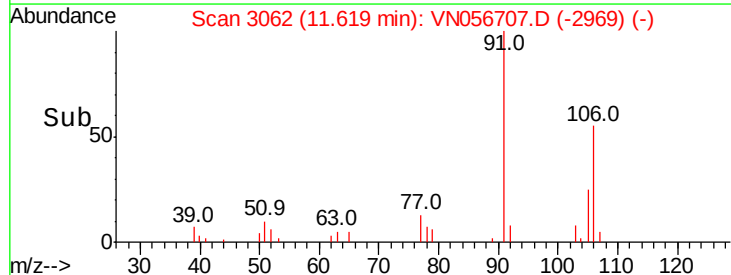
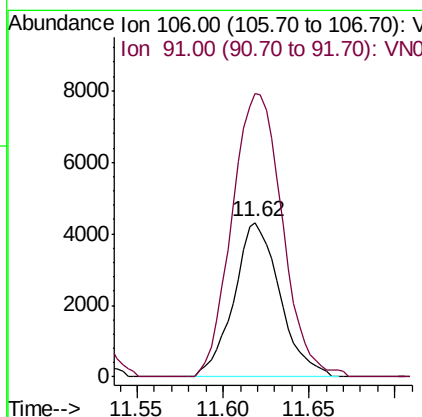
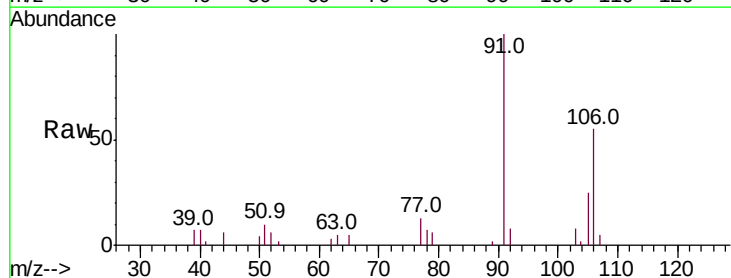
Manual Integrations
APPROVED

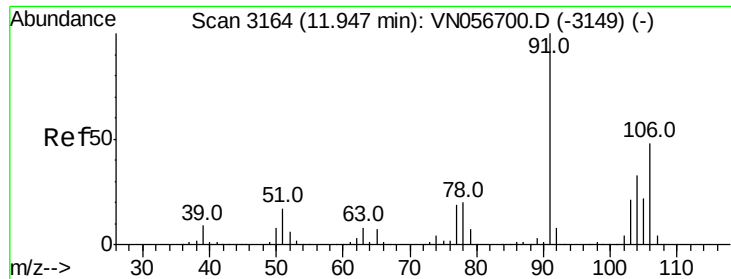
MMDadoda
7/17/2019 1:31:32 AM



#68
m/p-Xylenes
Concen: 1.352 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN056707.D
Acq: 15 Jul 2019 13:20

Tgt Ion: 106 Resp: 8037
Ion Ratio Lower Upper
106 100
91 201.2 160.5 240.7





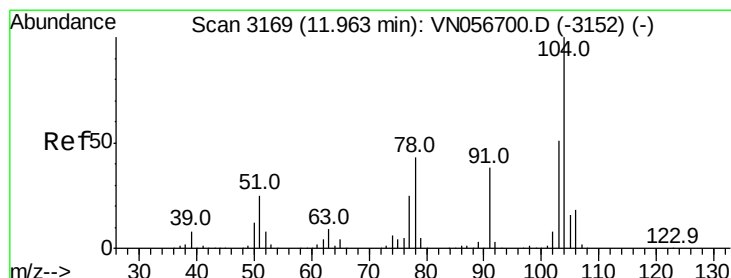
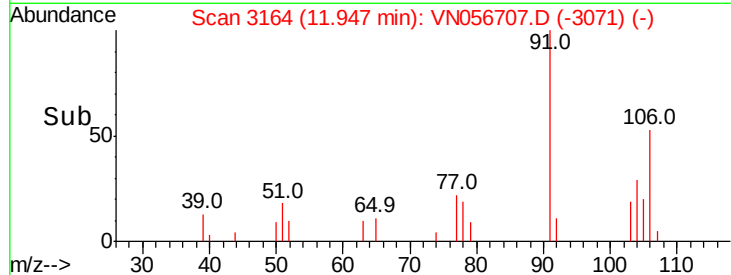
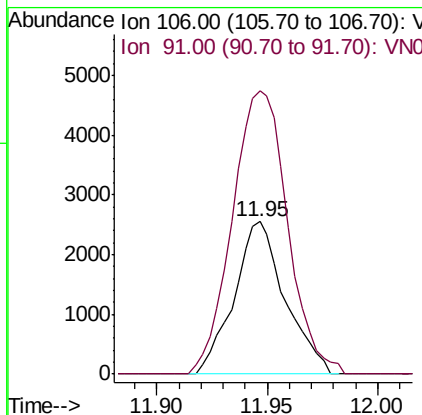
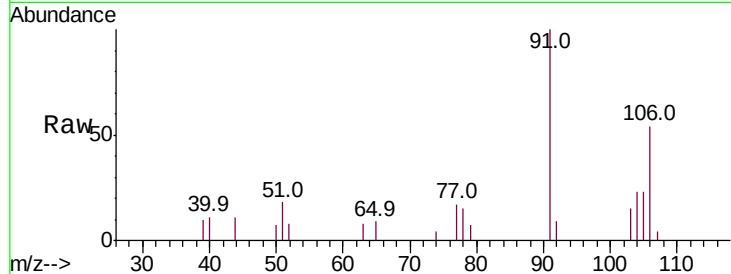
#69
o-Xylene
Concen: 0.701 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN056707.D
Acq: 15 Jul 2019 13:20

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

Tot Ion:106 Resp: 4097
Ion Ratio Lower Upper
106 100
91 201.6 105.6 316.8

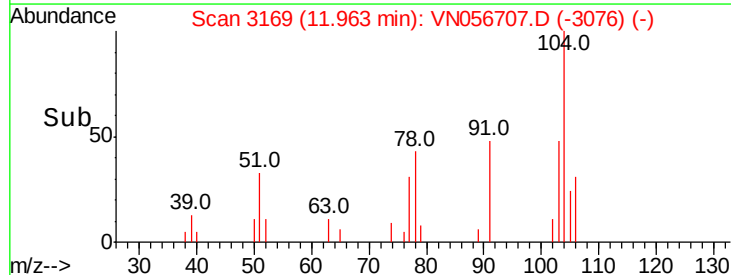
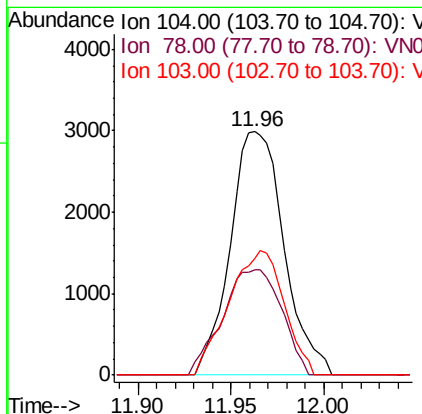
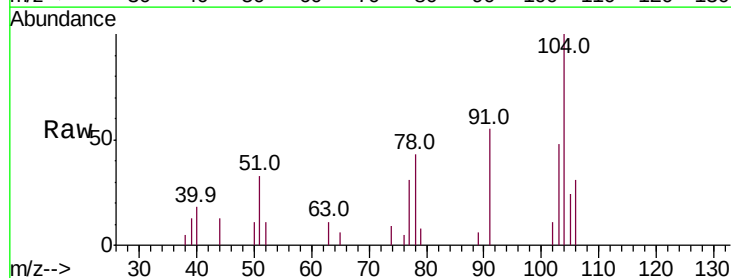
Manual Integrations
APPROVED

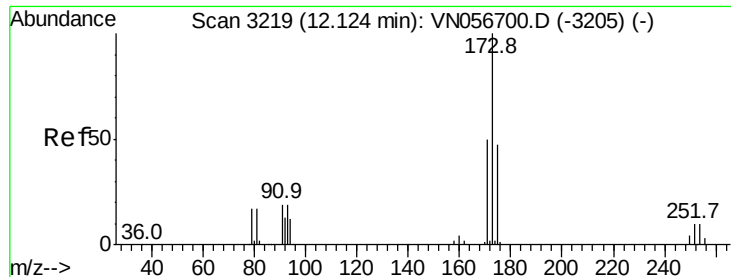
MMDadoda
7/17/2019 1:31:32 AM



#70
Styrene
Concen: 0.636 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN056707.D
Acq: 15 Jul 2019 13:20

Tgt Ion:104 Resp: 6010
Ion Ratio Lower Upper
104 100
78 47.6 38.6 57.8
103 52.6 44.2 66.4





#71

Bromoform

Concen: 0.543 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion:173 Resp: 1377

Ion Ratio Lower Upper

173 100

175 46.2 23.8 71.4

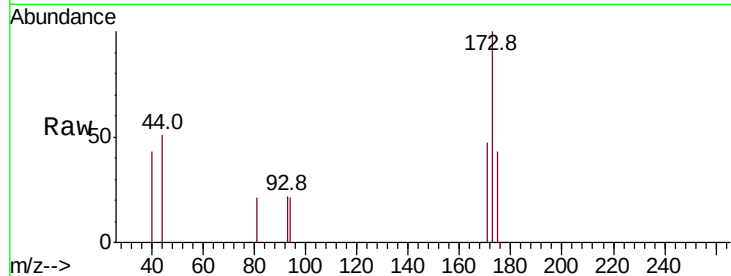
254 0.0 0.0 0.0

Manual Integrations

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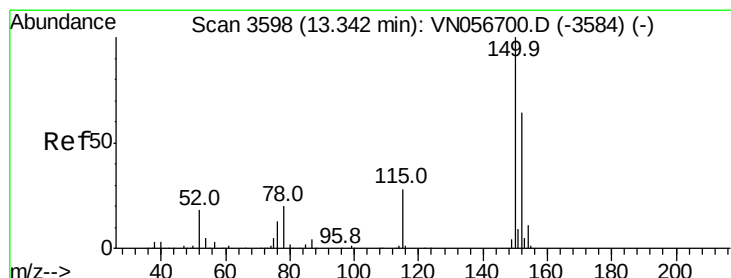
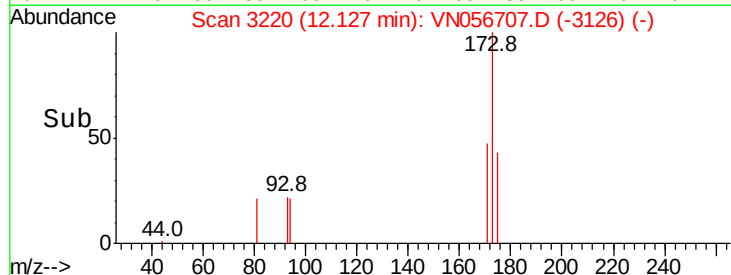
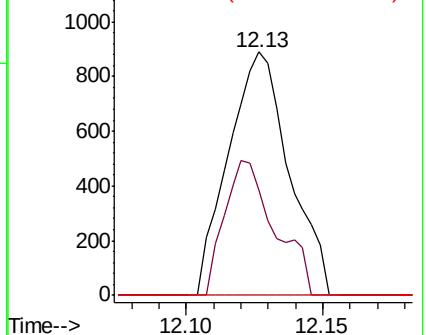
7/17/2019 1:31:32 AM



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

Tgt Ion:152 Resp: 148349

Ion Ratio Lower Upper

152 100

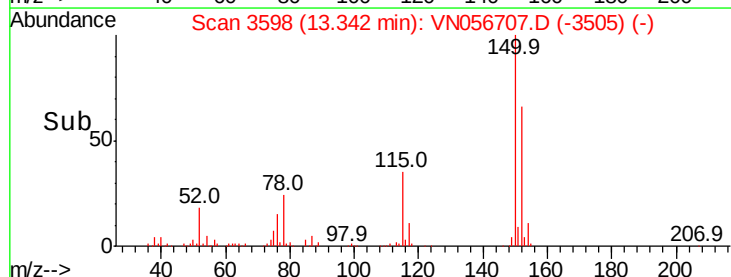
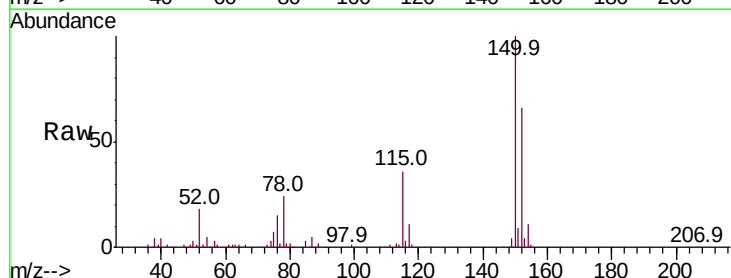
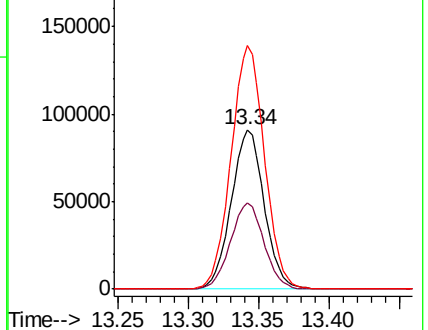
115 55.2 28.2 84.7

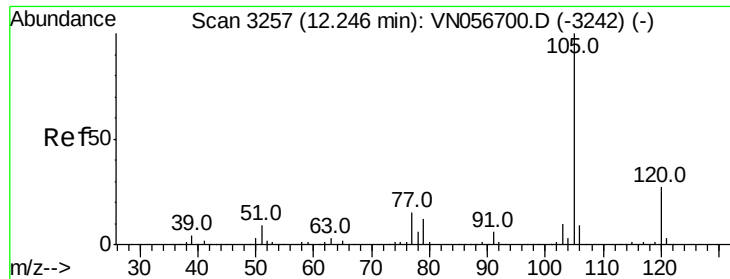
150 155.8 0.0 345.8

Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 0.832 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion: 105 Resp: 9951

Ion Ratio Lower Upper

105 100

120 26.9

13.4

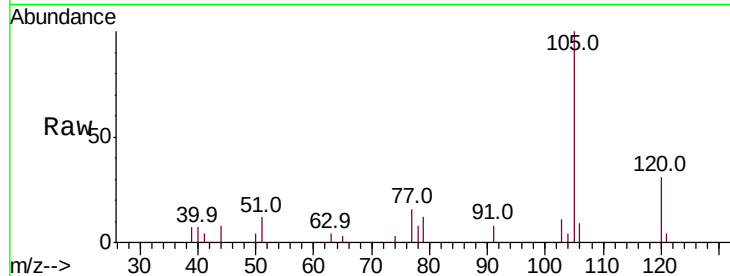
40.2

Manual Integrations

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.25

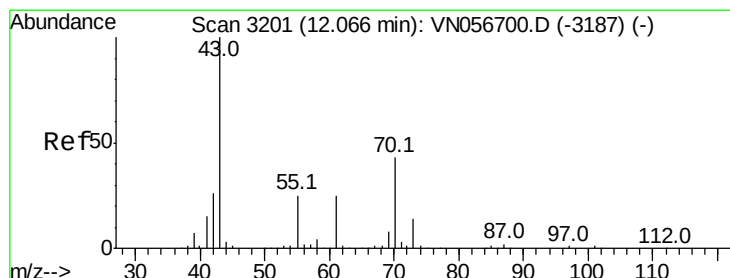
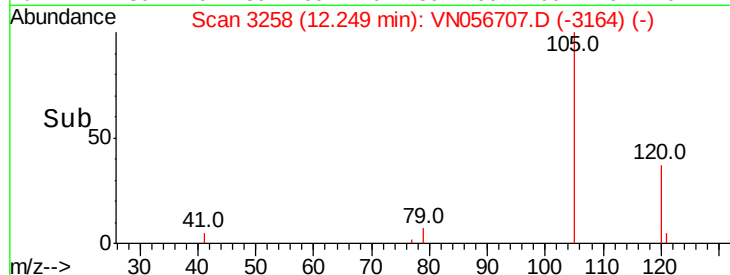
6000

4000

2000

0

Time-->



#74

N-amyl acetate

Concen: 0.714 ug/l

RT: 12.07 min Scan# 3203

Delta R.T. 0.01 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

Tgt Ion: 43 Resp: 3180

Ion Ratio Lower Upper

43 100

70 36.3

34.5

51.7

55 22.3

20.2

30.2

61 20.7

19.9

29.9

Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

2500

2000

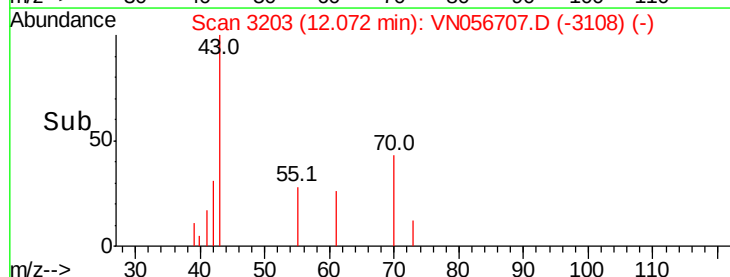
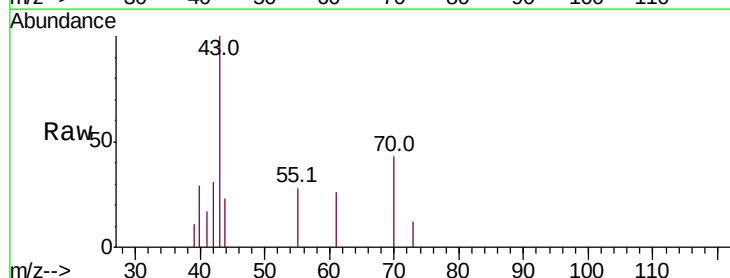
1500

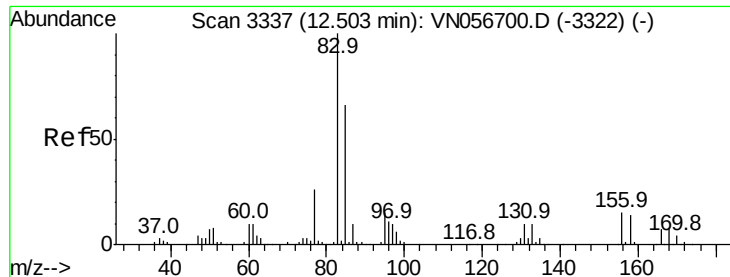
1000

500

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 0.881 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

Instrument :

MSVOA_N

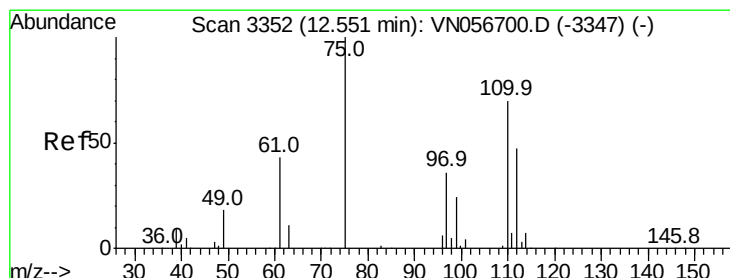
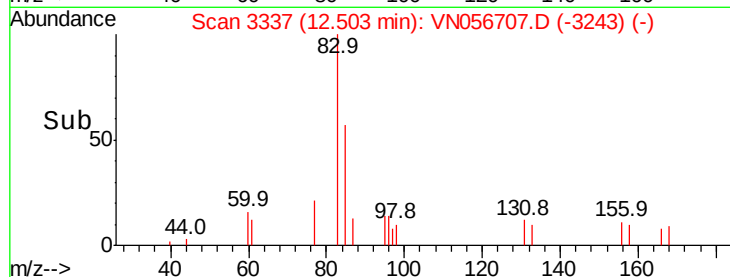
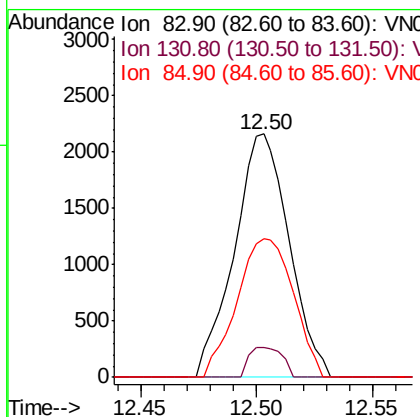
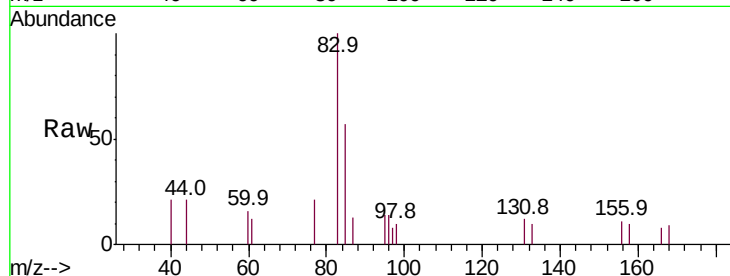
ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion:	83	Resp:	3544
Ion Ratio	Lower	Upper	
83	100		
131	7.5	5.3	15.8
85	58.6	32.6	97.8

Manual Integrations
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MMDadoda
7/17/2019 1:31:32 AM



#76

1,2,3-Trichloropropane

Concen: 0.890 ug/l m

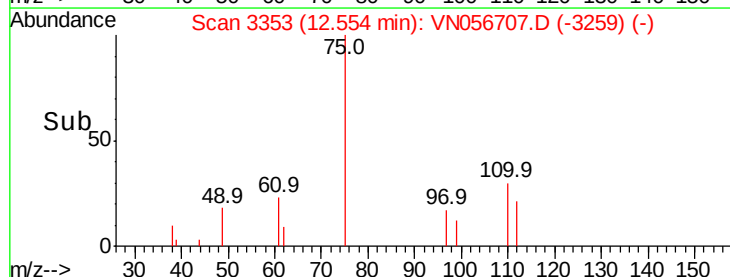
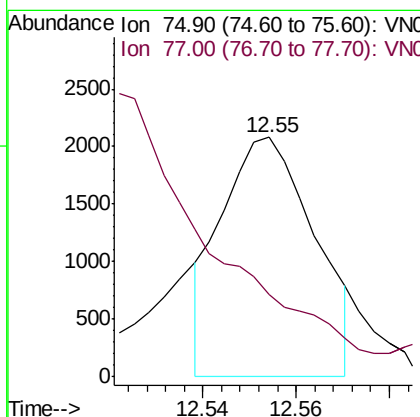
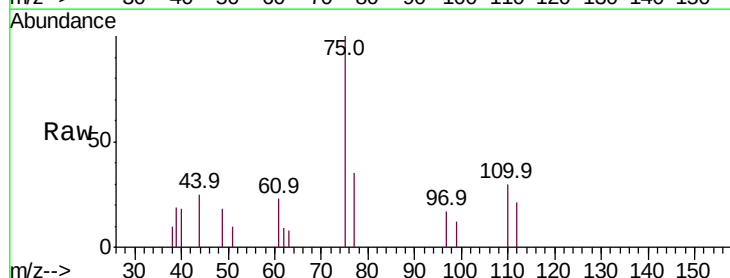
RT: 12.55 min Scan# 3353

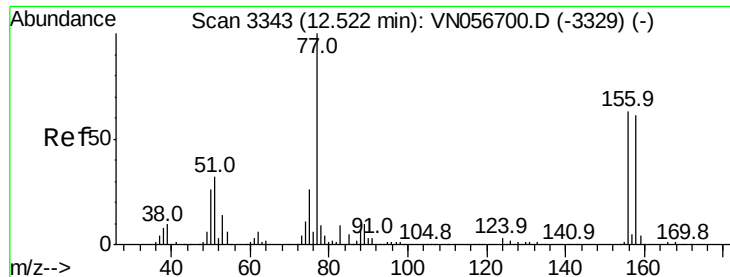
Delta R.T. 0.00 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

Tgt Ion:	75	Resp:	2887
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 0.868 ug/l

RT: 12.52 min Scan# 3343

Delta R.T. -0.00 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion:156 Resp: 2715

Ion Ratio Lower Upper

156 100

77 196.7 97.2 291.6

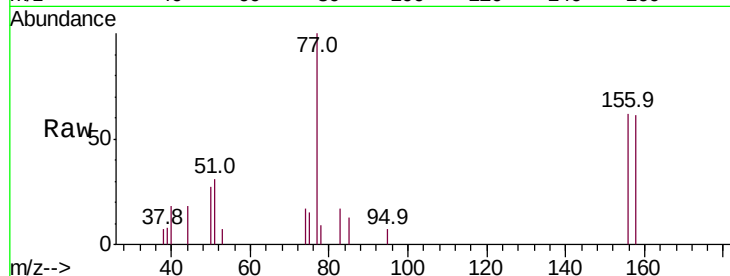
158 100.6 48.9 146.8

Manual Integrations

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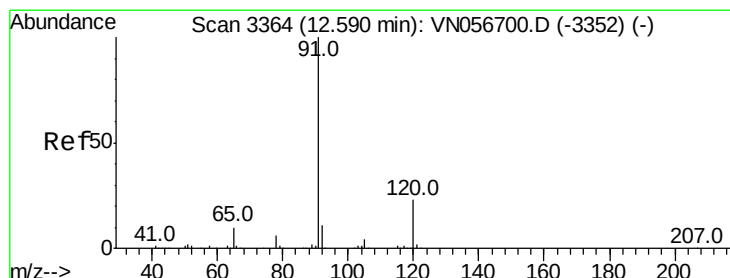
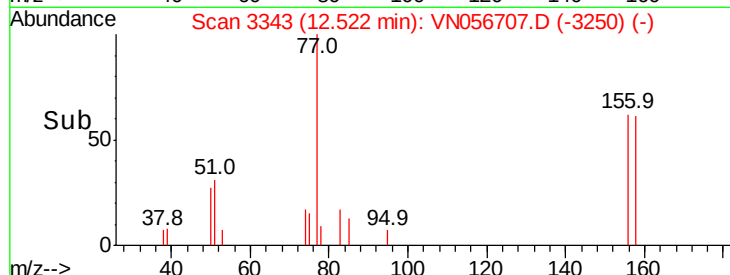
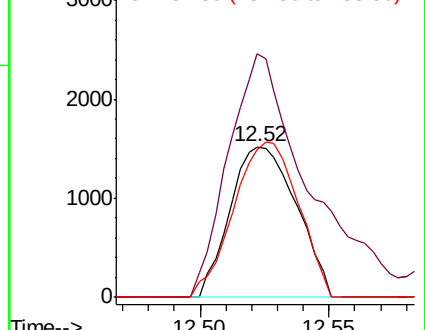
7/17/2019 1:31:32 AM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 0.797 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN056707.D

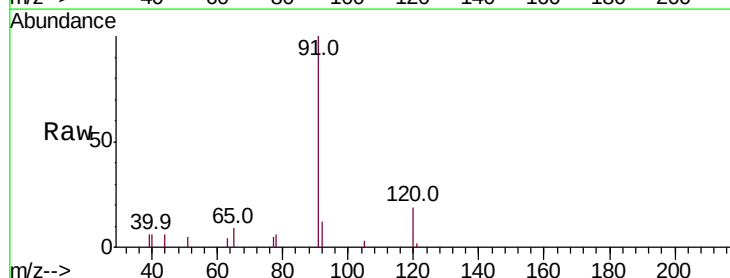
Acq: 15 Jul 2019 13:20

Tgt Ion: 91 Resp: 10584

Ion Ratio Lower Upper

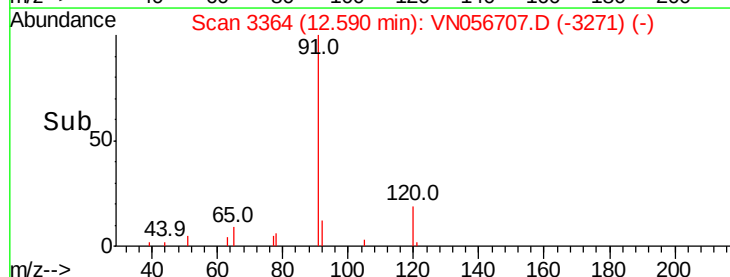
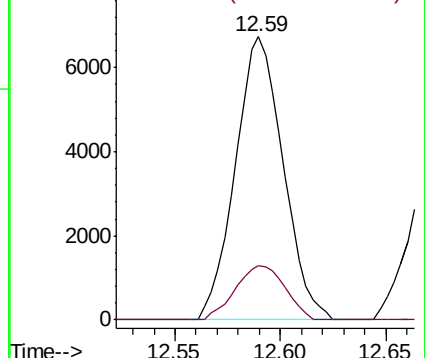
91 100

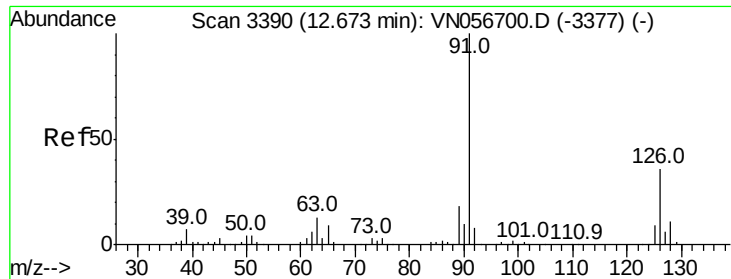
120 20.0 11.8 35.3



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 0.852 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion: 91 Resp: 6998

Ion Ratio Lower Upper

91 100

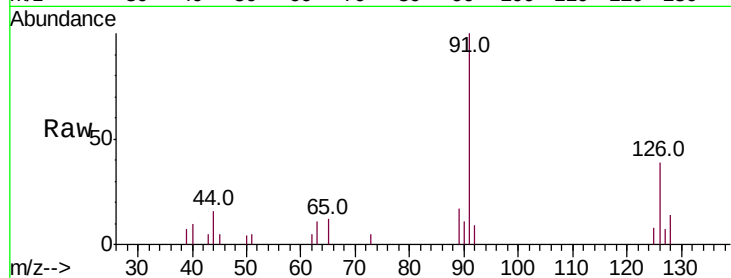
126 32.3 17.9 53.7

Manual Integrations

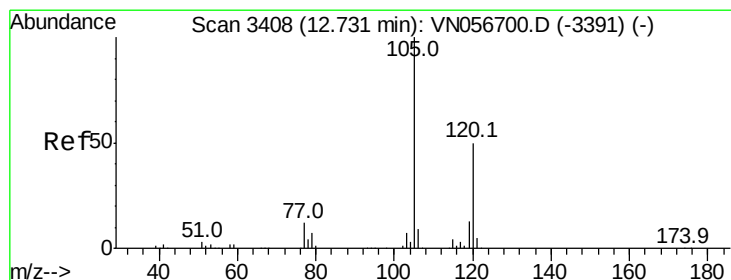
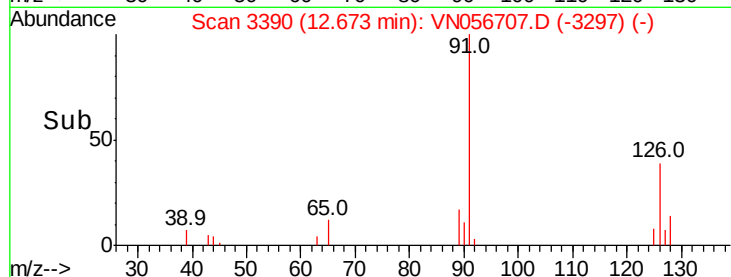
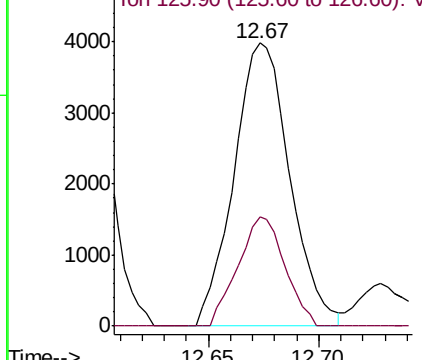
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Abundance Ion 91.00 (90.70 to 91.70): VN056707.D (-3377) (-)



#80

1,3,5-Trimethylbenzene

Concen: 0.825 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN056707.D

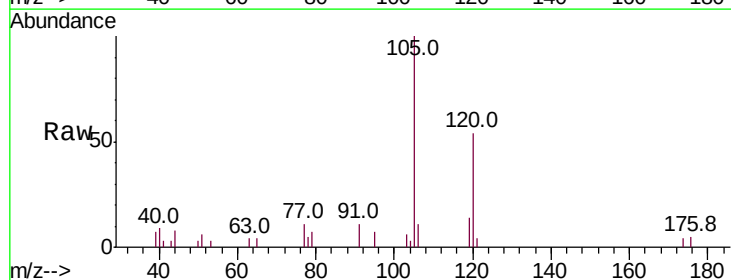
Acq: 15 Jul 2019 13:20

Tgt Ion: 105 Resp: 8366

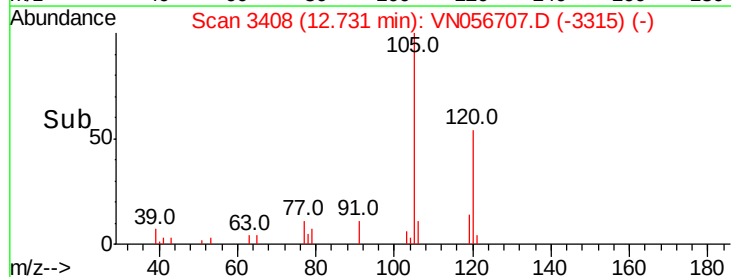
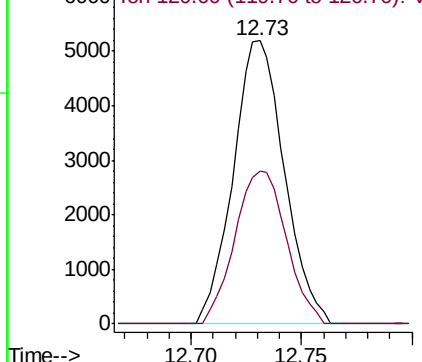
Ion Ratio Lower Upper

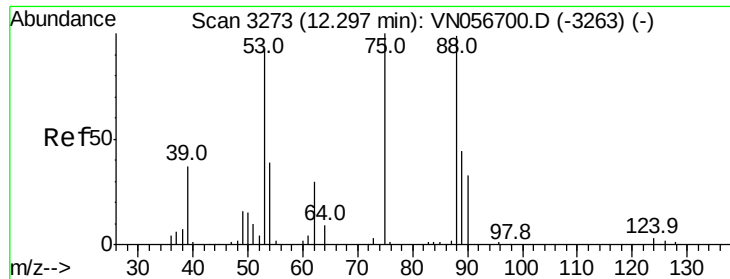
105 100

120 54.1 24.8 74.3



Abundance Ion 105.00 (104.70 to 105.70): VN056707.D (-3391) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 0.368 ug/l m

RT: 12.30 min Scan# 3273

Delta R.T. -0.00 min

Lab File: VN056707.D

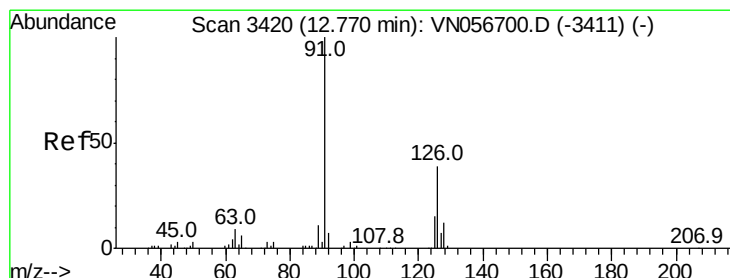
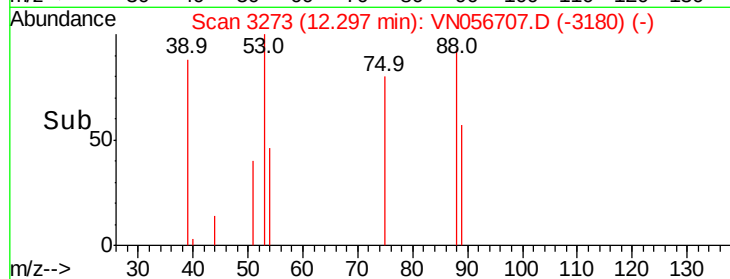
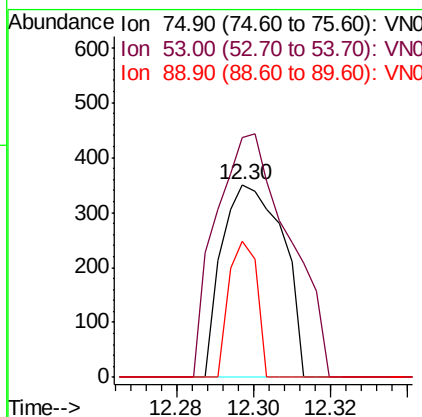
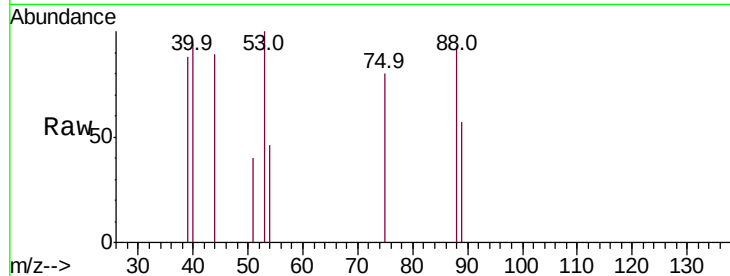
Acq: 15 Jul 2019 13:20

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
75	100		
53	0.0	73.7	110.5#
89	0.0	36.2	54.2#

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#82

4-Chlorotoluene

Concen: 0.830 ug/l

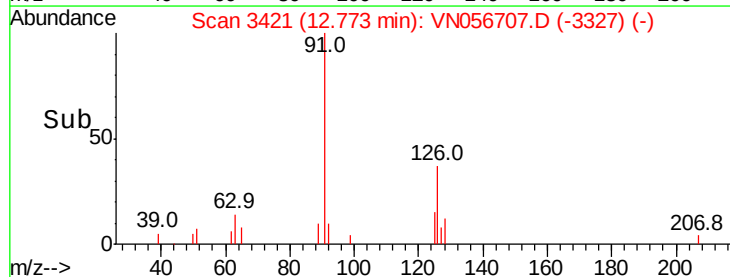
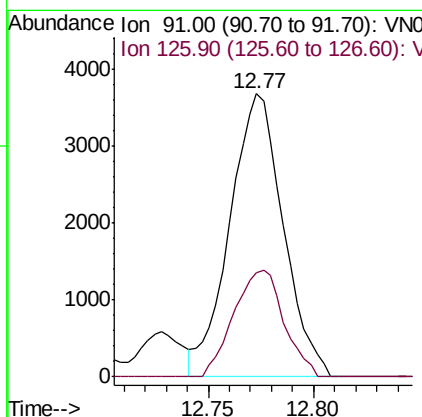
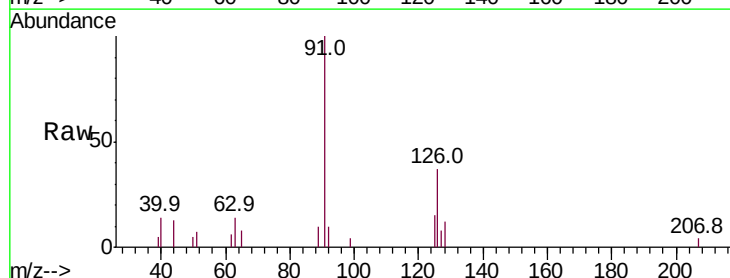
RT: 12.77 min Scan# 3421

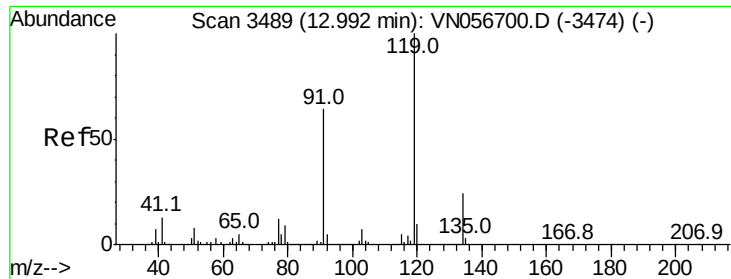
Delta R.T. 0.00 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

Tgt Ion	Ratio	Lower	Upper
91	100		
126	35.5	17.6	52.8





#83

tert-Butylbenzene

Concen: 0.824 ug/l

RT: 12.99 min Scan# 3489

Delta R.T. 0.00 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

Instrument :

MSVOA_N

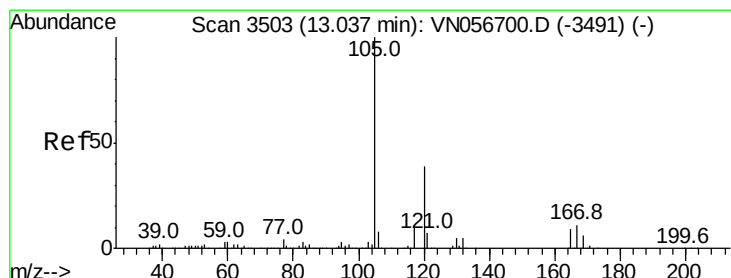
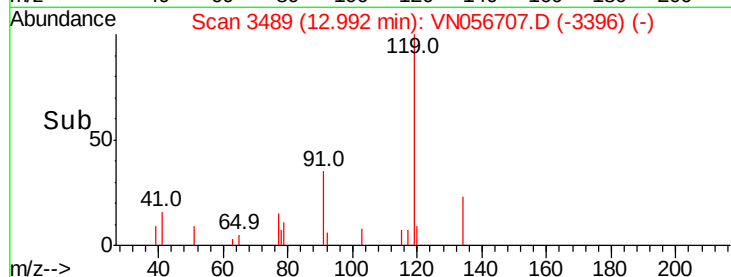
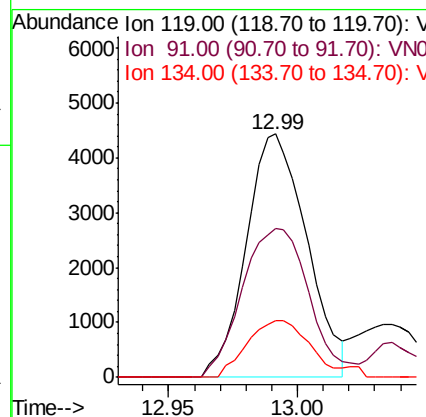
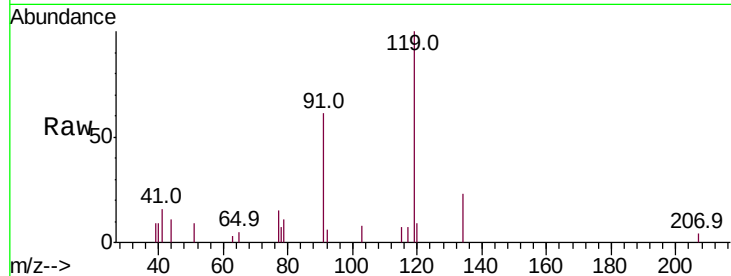
ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion:	119	Resp:	7274
Ion Ratio	Lower	Upper	
119	100		
91	67.7	31.8	95.4
134	25.0	13.0	38.9

Manual Integrations
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7/17/2019 1:31:32 AM



#84

1,2,4-Trimethylbenzene

Concen: 0.772 ug/l

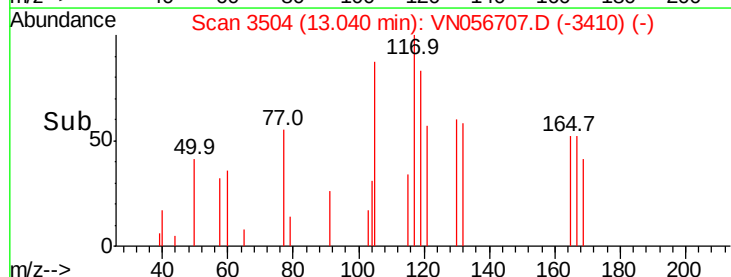
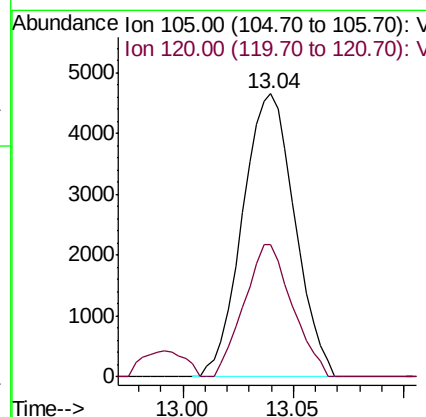
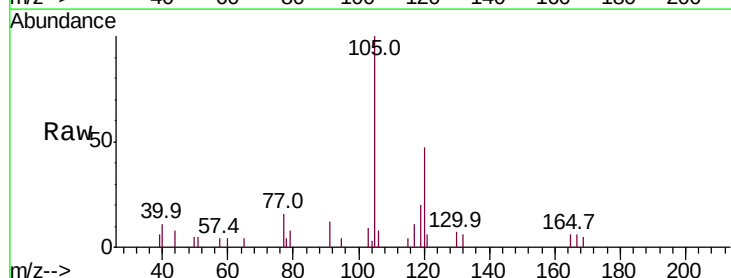
RT: 13.04 min Scan# 3504

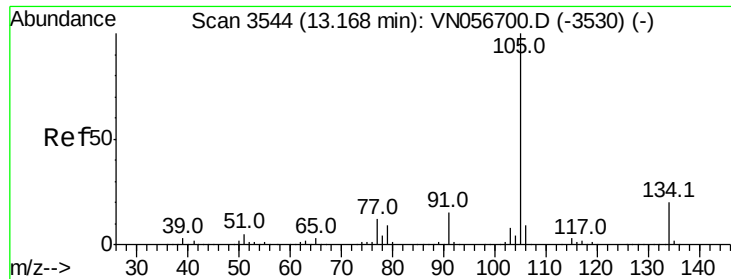
Delta R.T. 0.00 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

Tgt Ion:	105	Resp:	7643
Ion Ratio	Lower	Upper	
105	100		
120	43.0	22.9	68.8





#85

sec-Butylbenzene

Concen: 0.793 ug/l

RT: 13.17 min Scan# 3544

Delta R.T. -0.00 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion:105 Resp: 8935

Ion Ratio Lower Upper

105 100

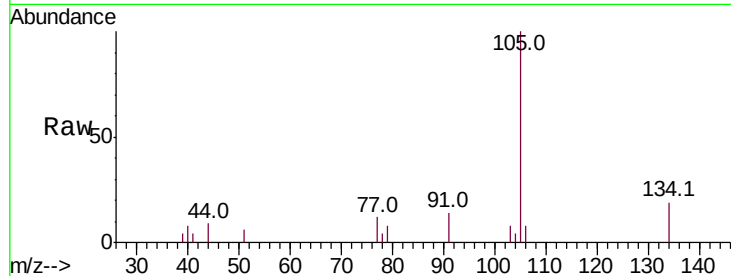
134 20.0 10.1 30.1

Manual Integrations

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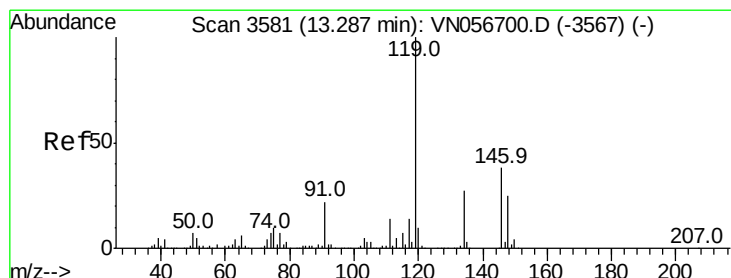
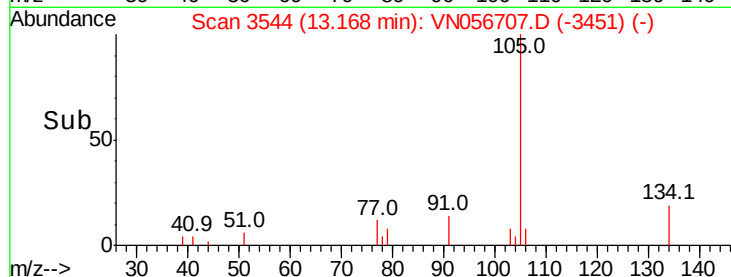
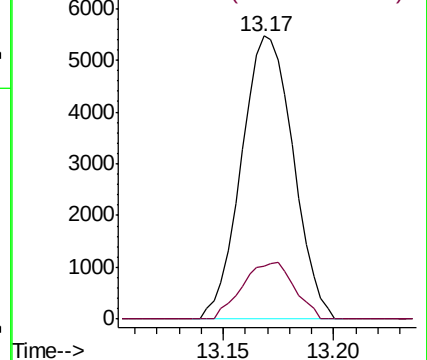
MMDadoda

7/17/2019 1:31:32 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 0.744 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

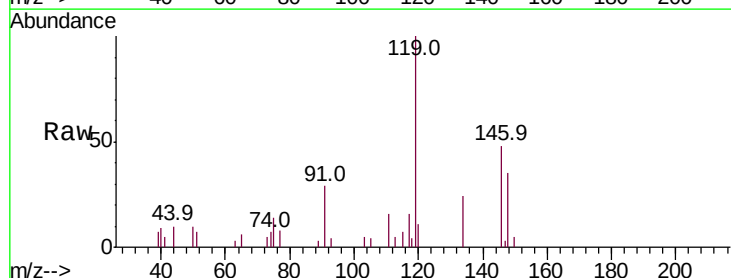
Tgt Ion:119 Resp: 7590

Ion Ratio Lower Upper

119 100

134 24.2 13.6 40.7

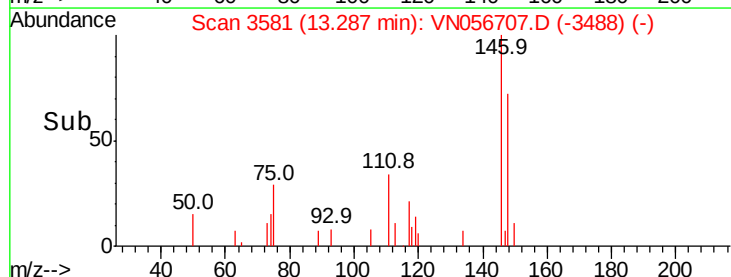
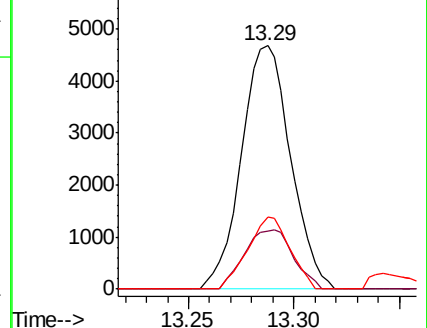
91 25.4 11.2 33.5

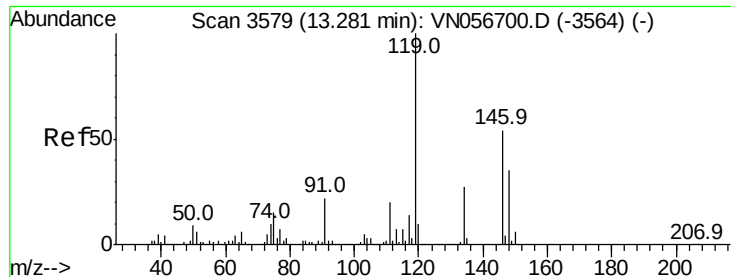


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





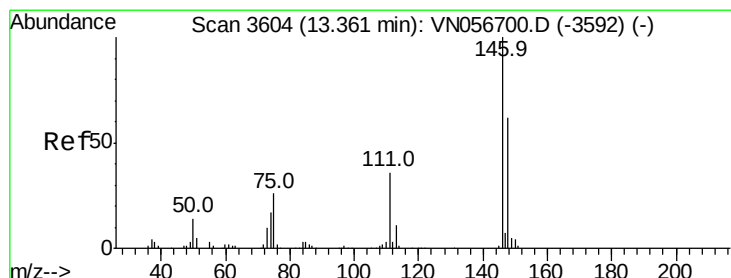
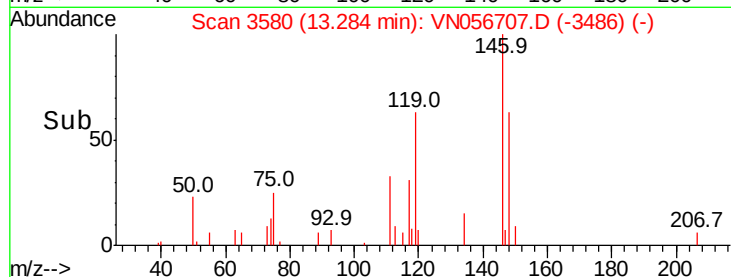
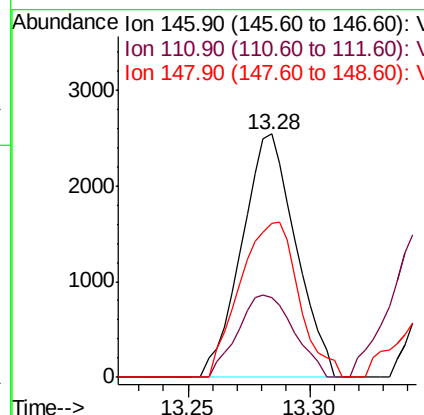
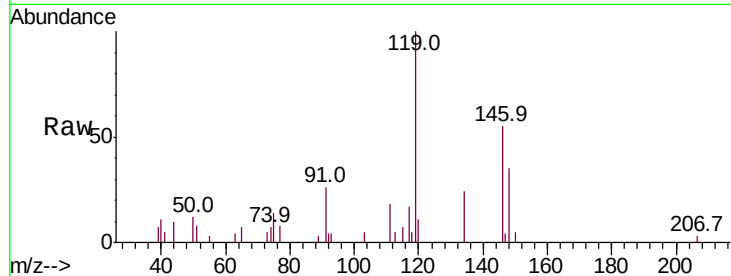
#87
 1,3-Dichlorobenzene
 Concen: 0.759 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN056707.D
 Acq: 15 Jul 2019 13:20

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	35.3	18.8	56.3
148	69.6	32.3	96.8

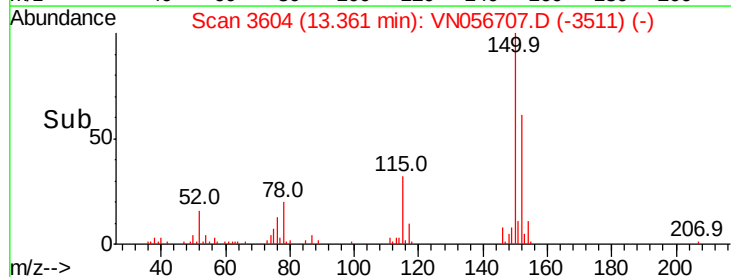
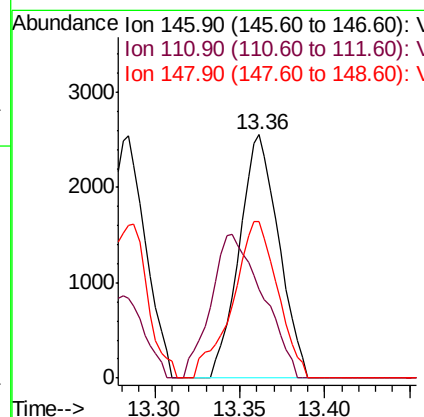
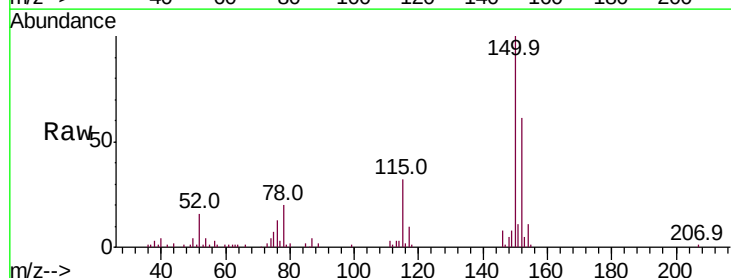
Manual Integrations
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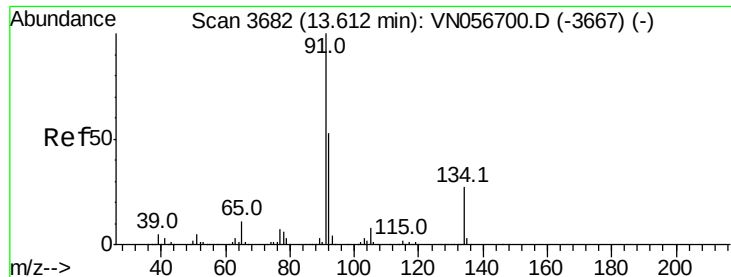
MMDadoda
 7/17/2019 1:31:32 AM



#88
 1,4-Dichlorobenzene
 Concen: 0.828 ug/l m
 RT: 13.36 min Scan# 3604
 Delta R.T. -0.00 min
 Lab File: VN056707.D
 Acq: 15 Jul 2019 13:20

Tgt Ion	Ratio	Lower	Upper
146	100		
111	33.3	18.6	55.8
148	65.6	31.9	95.7





#89

n-Butylbenzene

Concen: 0.655 ug/l

RT: 13.61 min Scan# 3682

Delta R.T. -0.00 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

Instrument :

MSVOA_N

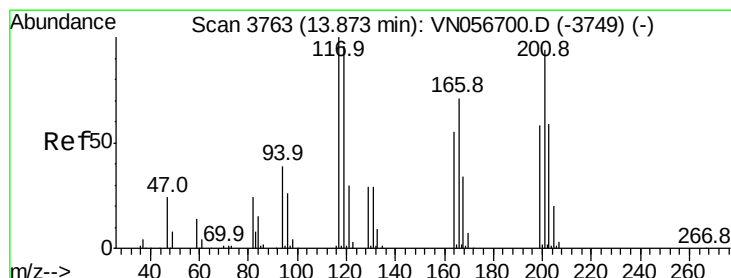
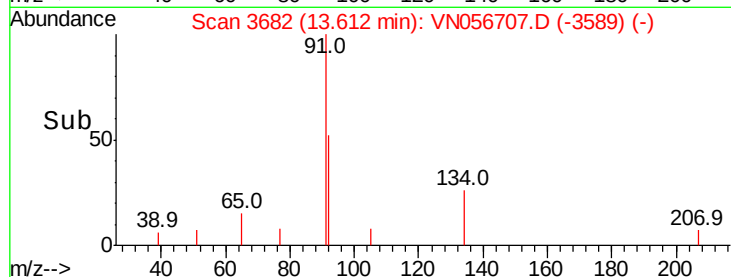
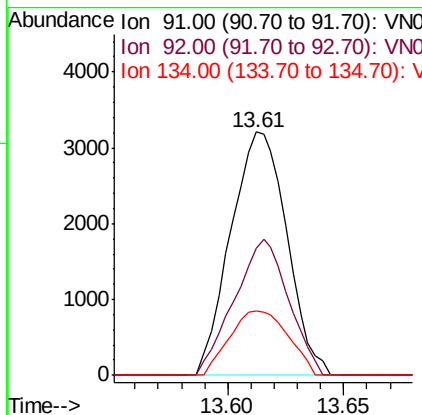
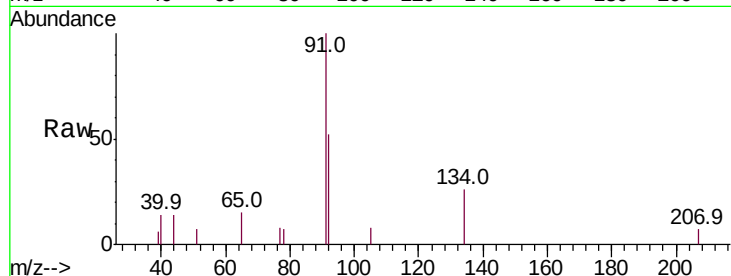
ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion:	91	Resp:	5382
Ion	Ratio	Lower	Upper
91	100		
92	54.3	26.0	78.0
134	27.7	13.4	40.2

Manual Integrations
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#90

Hexachloroethane

Concen: 0.614 ug/l

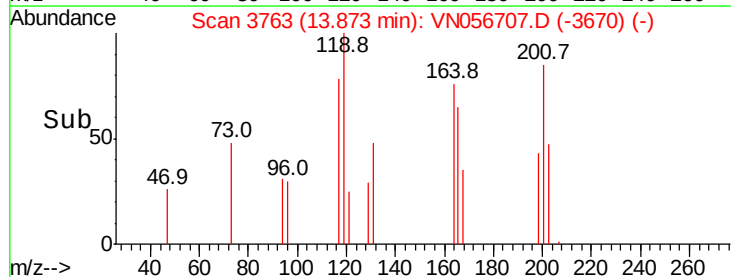
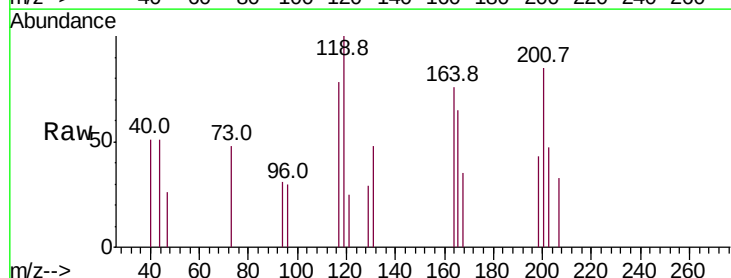
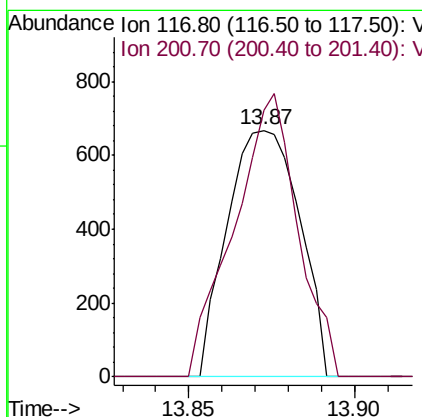
RT: 13.87 min Scan# 3763

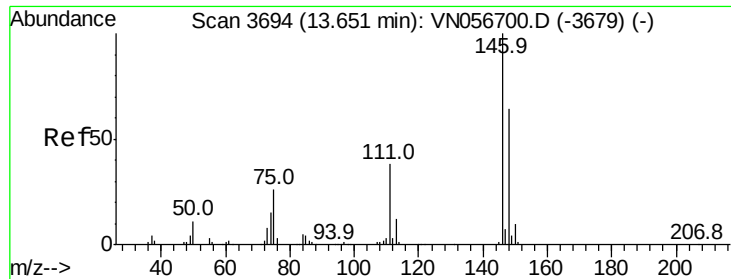
Delta R.T. -0.00 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

Tgt Ion:	117	Resp:	1014
Ion	Ratio	Lower	Upper
117	100		
201	101.2	46.5	139.5





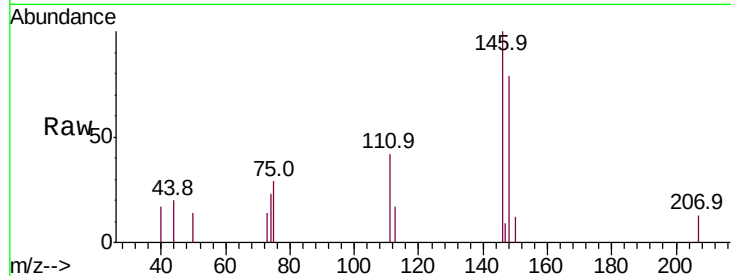
#91
 1,2-Dichlorobenzene
 Concen: 0.737 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. -0.00 min
 Lab File: VN056707.D
 Acq: 15 Jul 2019 13:20

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.1	19.1	57.1
148	70.4	31.7	95.1

Manual Integrations
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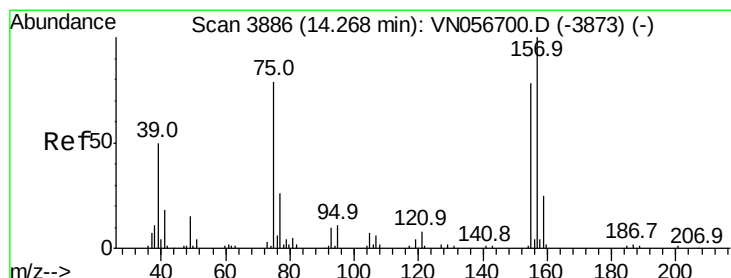
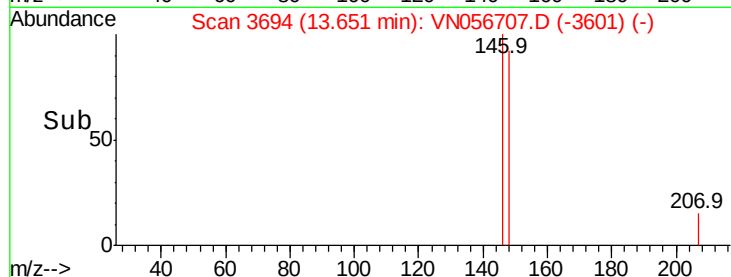
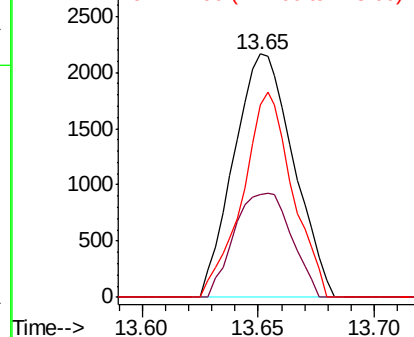


Abundance

Ion 145.90 (145.60 to 146.60): V

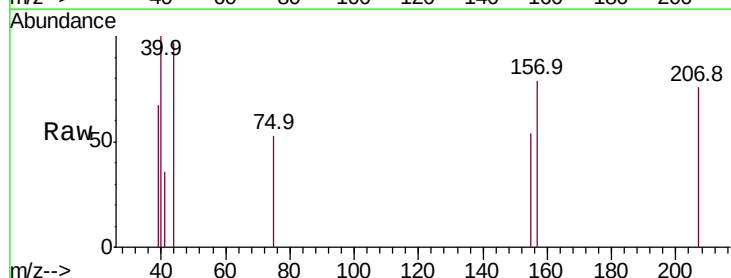
Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.582 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN056707.D
 Acq: 15 Jul 2019 13:20

Tgt Ion	Ratio	Lower	Upper
75	100		
155	82.3	49.3	147.9
157	112.9	62.4	187.1

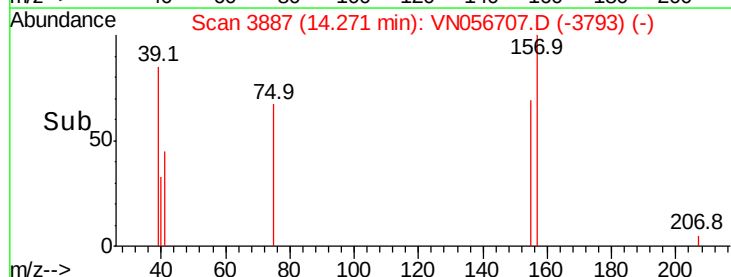
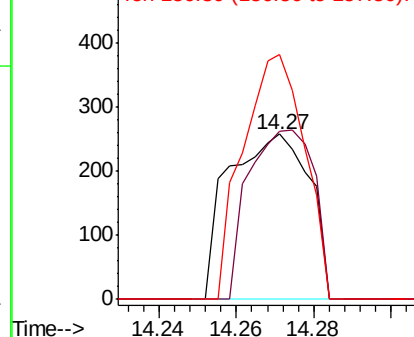


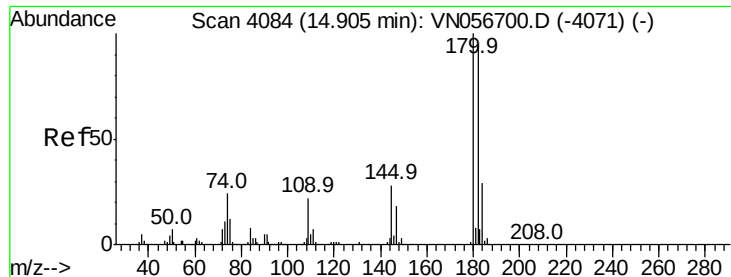
Abundance

Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#93

1,2,4-Trichlorobenzene

Concen: 0.682 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.01 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

Instrument :

MSVOA_N

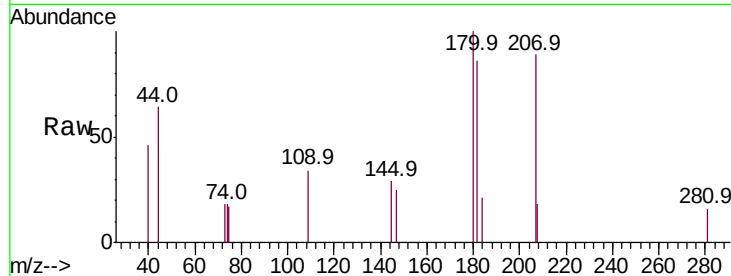
ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

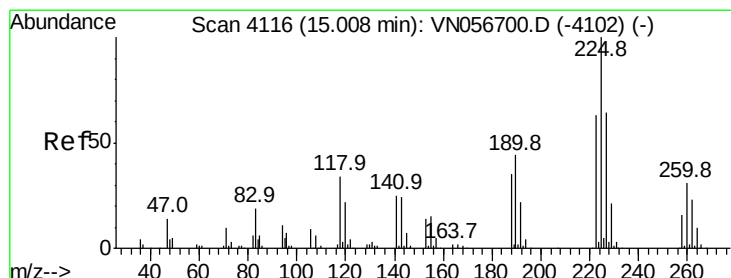
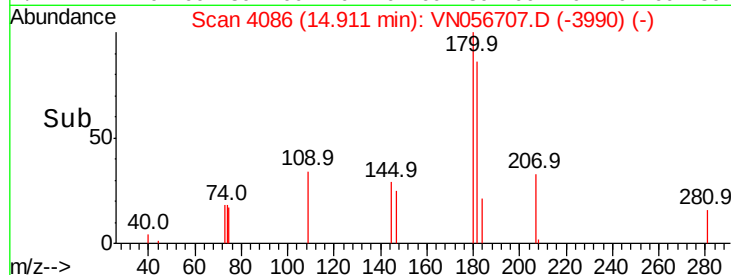
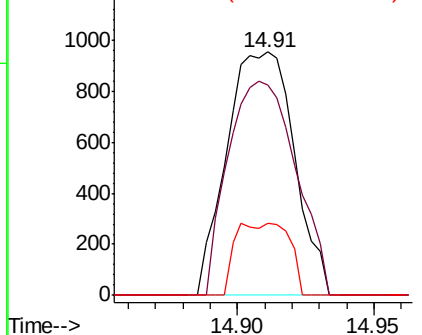
Tot Ion:	180	Resp:	1639
Ion Ratio	Lower	Upper	
180	100		
182	88.5	47.2	141.6
145	12.1	14.2	42.8#

Manual Integrations
APPROVED

MMDadoda
7/17/2019 1:31:32 AM



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: 0.754 ug/l

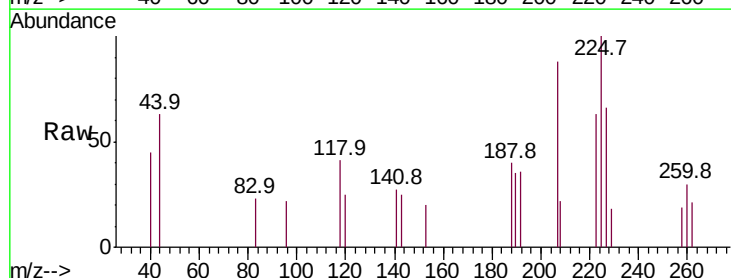
RT: 15.01 min Scan# 4116

Delta R.T. 0.00 min

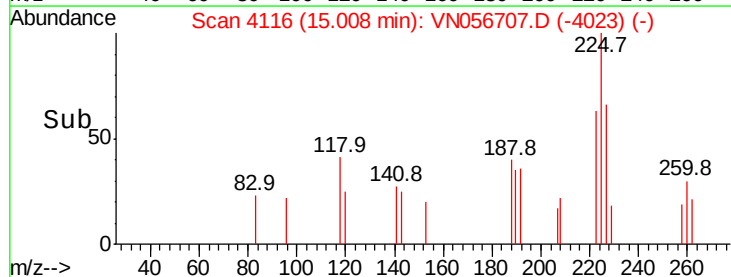
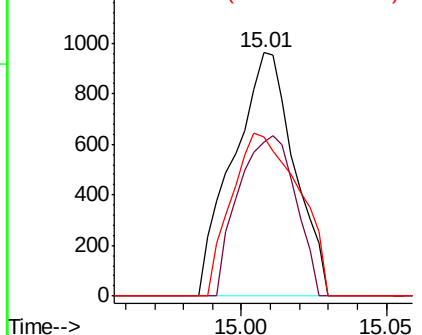
Lab File: VN056707.D

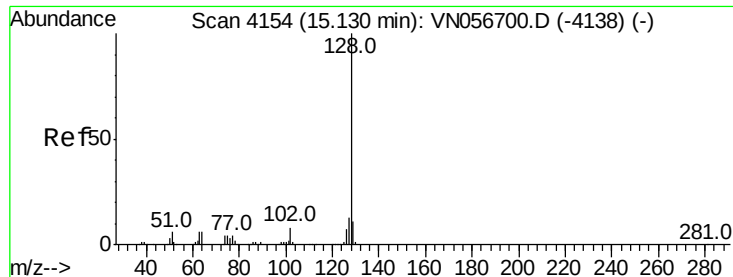
Acq: 15 Jul 2019 13:20

Tgt Ion:	225	Resp:	1408
Ion Ratio	Lower	Upper	
225	100		
223	61.6	31.5	94.5
227	73.9	32.0	96.2



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: 0.684 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

Instrument :

MSVOA_N

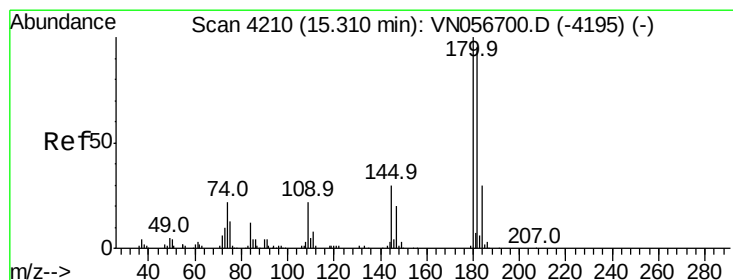
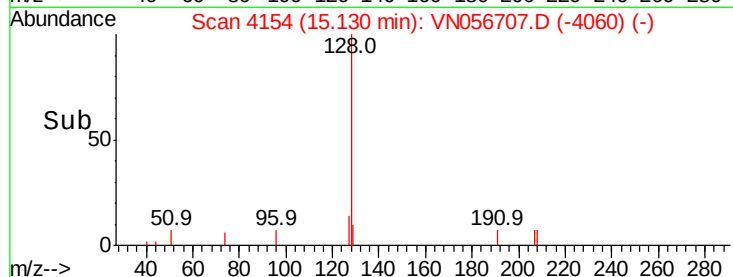
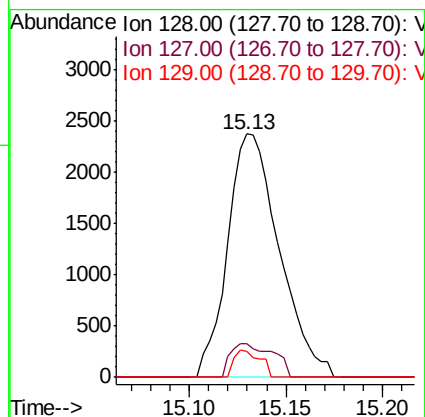
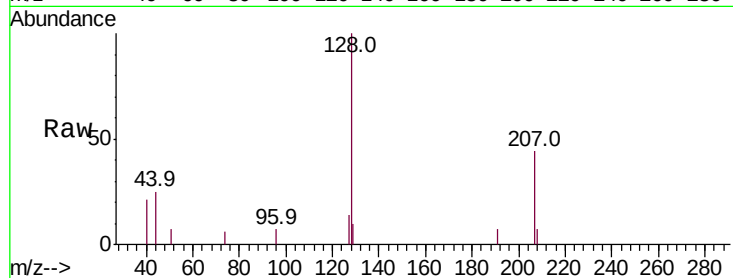
ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion:	128	Resp:	4405
Ion Ratio	Lower	Upper	
128	100		
127	11.4	10.3	15.5
129	5.5	8.7	13.1#

Manual Integrations
APPROVED

MMDadoda
7/17/2019 1:31:32 AM



#96

1,2,3-Trichlorobenzene

Concen: 0.765 ug/l

RT: 15.31 min Scan# 4210

Delta R.T. 0.00 min

Lab File: VN056707.D

Acq: 15 Jul 2019 13:20

Tgt Ion:	180	Resp:	1896
Ion Ratio	Lower	Upper	
180	100		
182	98.9	47.1	141.3
145	29.0	15.0	45.1

