

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071519\
 Data File : VN056706.D
 Acq On : 15 Jul 2019 12:56
 Operator : JC/SP
 Sample : K3591-07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

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

Manual Integrations
 APPROVED

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

Quant Time: Jul 16 07:00:54 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	7.66	168	325219	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	508089	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	425274	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	137956	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	184733	51.35	ug/l	0.00
Spiked Amount			Recovery	=	102.70%	
35) Dibromofluoromethane	7.59	113	155680	49.24	ug/l	0.00
Spiked Amount			Recovery	=	98.48%	
50) Toluene-d8	10.09	98	592003	48.48	ug/l	0.00
Spiked Amount			Recovery	=	96.96%	
62) 4-Bromofluorobenzene	12.40	95	170062	41.29	ug/l	0.00
Spiked Amount			Recovery	=	82.58%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	1658	0.543	ug/l	100
3) Chloromethane	2.06	50	2239	0.545	ug/l	94
4) Vinyl Chloride	2.18	62	1961	0.496	ug/l #	86
5) Bromomethane	2.56	94	1816	0.781	ug/l	96
6) Chloroethane	2.70	64	1041	0.452	ug/l #	42
7) Trichlorofluoromethane	3.01	101	2617	0.516	ug/l	92
8) Diethyl Ether	3.41	74	955	0.483	ug/l	87
9) 1,1,2-Trichlorotrifluoroet	3.76	101	1353	0.444	ug/l #	86
10) Methyl Iodide	3.96	142	1526	0.374	ug/l #	68
11) Tert butyl alcohol	4.79	59	1365	2.280	ug/l #	73
12) 1,1-Dichloroethene	3.73	96	1355	0.443	ug/l #	88
13) Acrolein	3.62	56	925	4.257	ug/l	87
14) Allyl chloride	4.32	41	2549	0.482	ug/l #	43
15) Acrylonitrile	5.00	53	3783	2.188	ug/l #	85
16) Acetone	3.82	43	4435	2.675	ug/l	92
17) Carbon Disulfide	4.05	76	4331	0.536	ug/l #	75
18) Methyl Acetate	4.33	43	4585m	1.031	ug/l	
19) Methyl tert-butyl Ether	5.04	73	4358m	0.447	ug/l	
20) Methylene Chloride	4.55	84	2285	0.631	ug/l #	92
21) trans-1,2-Dichloroethene	5.05	96	1485m	0.460	ug/l	
22) Diisopropyl ether	5.95	45	4997	0.479	ug/l	90
23) Vinyl Acetate	5.90	43	17298	2.045	ug/l	96
24) 1,1-Dichloroethane	5.84	63	2767m	0.457	ug/l	
25) 2-Butanone	6.85	43	5394	2.226	ug/l	96
26) 2,2-Dichloropropane	6.81	77	1905m	0.437	ug/l	
27) cis-1,2-Dichloroethene	6.83	96	1801	0.484	ug/l #	8
28) Bromochloromethane	7.20	49	1261	0.443	ug/l #	97
29) Tetrahydrofuran	7.22	42	3728	2.358	ug/l #	64
30) Chloroform	7.38	83	3611	0.596	ug/l	94
31) Cyclohexane	7.66	56	7944	1.381	ug/l #	6
32) 1,1,1-Trichloroethane	7.57	97	2185	0.456	ug/l #	46
36) 1,1-Dichloropropene	7.79	75	2655	0.565	ug/l #	74
37) Ethyl Acetate	6.95	43	2206	0.476	ug/l #	68
38) Carbon Tetrachloride	7.77	117	2330	0.528	ug/l #	82

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

39) Methylcyclohexane	9.08	83	2609	0.449	ug/l #	91
40) Benzene	8.04	78	7092	0.492	ug/l	95
41) Methacrylonitrile	7.21	41	1846	0.907	ug/l #	100
42) 1,2-Dichloroethane	8.12	62	2399	0.527	ug/l #	73
43) Isopropyl Acetate	8.17	43	3406	0.468	ug/l #	73
44) Trichloroethene	8.83	130	1924	0.492	ug/l	83
45) 1,2-Dichloropropane	9.12	63	1715	0.448	ug/l	91
46) Dibromomethane	9.22	93	1198	0.505	ug/l	89
47) Bromodichloromethane	9.40	83	2128	0.472	ug/l #	91
48) Methyl methacrylate	9.20	41	1654	0.469	ug/l	89
49) 1,4-Dioxane	9.20	88	677	9.365	ug/l #	79
51) 4-Methyl-2-Pentanone	9.99	43	10899	2.310	ug/l	96
52) Toluene	10.16	92	4341	0.507	ug/l	96
53) t-1,3-Dichloropropene	10.38	75	1650	0.351	ug/l #	56
54) cis-1,3-Dichloropropene	9.84	75	2081	0.381	ug/l #	81
55) 1,1,2-Trichloroethane	10.56	97	1554	0.433	ug/l #	87
56) Ethyl methacrylate	10.43	69	2114	0.409	ug/l #	93
57) 1,3-Dichloropropane	10.71	76	2793	0.477	ug/l	92
58) 2-Chloroethyl Vinyl ether	9.70	63	5068	2.041	ug/l	98
59) 2-Hexanone	10.76	43	7917	2.338	ug/l	89
60) Dibromochloromethane	10.90	129	1273	0.361	ug/l	91
61) 1,2-Dibromoethane	11.00	107	1603	0.449	ug/l	97
64) Tetrachloroethene	10.63	164	2080	0.567	ug/l	91
65) Chlorobenzene	11.43	112	4595	0.528	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.51	131	1366	0.427	ug/l #	65
67) Ethyl Benzene	11.51	91	6958	0.455	ug/l	95
68) m/p-Xylenes	11.62	106	5124	0.897	ug/l	91
69) o-Xylene	11.94	106	2589	0.461	ug/l	95
70) Styrene	11.96	104	3560	0.392	ug/l	94
71) Bromoform	12.13	173	882	0.362	ug/l #	97
73) Isopropylbenzene	12.25	105	6609	0.594	ug/l	100
74) N-amyl acetate	12.07	43	1924	0.464	ug/l #	88
75) 1,1,2,2-Tetrachloroethane	12.50	83	2311	0.618	ug/l #	94
76) 1,2,3-Trichloropropane	12.56	75	1909m	0.633	ug/l	
77) Bromobenzene	12.53	156	1635	0.562	ug/l	88
78) n-propylbenzene	12.59	91	6990	0.566	ug/l	94
79) 2-Chlorotoluene	12.68	91	4195	0.549	ug/l	92
80) 1,3,5-Trimethylbenzene	12.73	105	5363	0.569	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.30	75	214m	0.219	ug/l	
82) 4-Chlorotoluene	12.77	91	4126	0.569	ug/l	96
83) tert-Butylbenzene	12.99	119	4560	0.556	ug/l	95
84) 1,2,4-Trimethylbenzene	13.04	105	4976	0.540	ug/l	97
85) sec-Butylbenzene	13.17	105	6462	0.617	ug/l	100
86) p-Isopropyltoluene	13.29	119	5134	0.541	ug/l	95
87) 1,3-Dichlorobenzene	13.28	146	2696	0.565	ug/l	97
88) 1,4-Dichlorobenzene	13.36	146	2738m	0.590	ug/l	
89) n-Butylbenzene	13.61	91	3637	0.476	ug/l	96
90) Hexachloroethane	13.88	117	690	0.450	ug/l	93
91) 1,2-Dichlorobenzene	13.65	146	2532	0.519	ug/l	90
92) 1,2-Dibromo-3-Chloropropan	14.27	75	140	0.235	ug/l #	70

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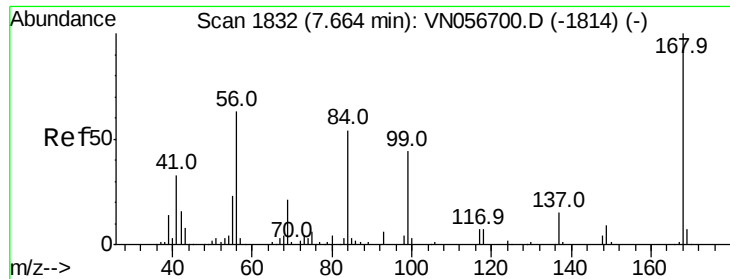
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.90	180	1590	0.712	ug/l	87
94) Hexachlorobutadiene	15.00	225	1094	0.630	ug/l	92
95) Naphthalene	15.13	128	3373	0.563	ug/l #	93
96) 1,2,3-Trichlorobenzene	15.31	180	1756	0.762	ug/l	95

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN056706.D

Acq: 15 Jul 2019 12:56

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion:168 Resp: 325219

Ion Ratio Lower Upper

168 100

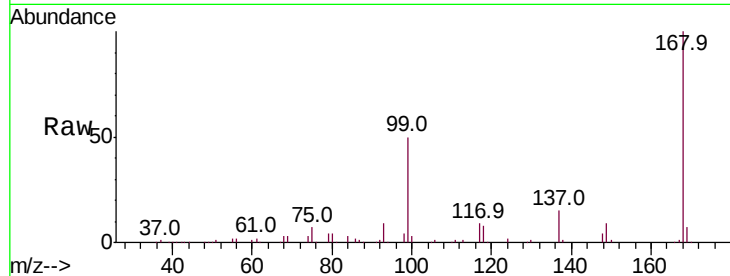
99 50.3 39.4 59.2

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): VN056706.D (-1739) (-)

Ion 98.90 (98.60 to 99.60): VN056706.D (-1739) (-)

7.66

150000

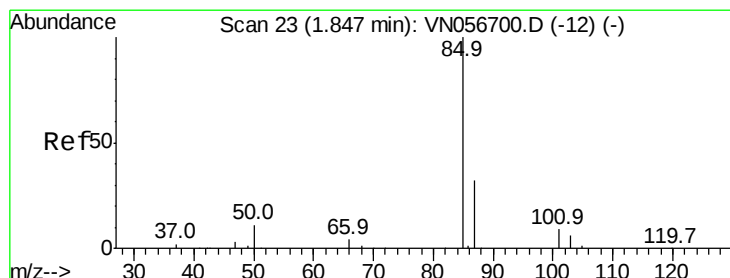
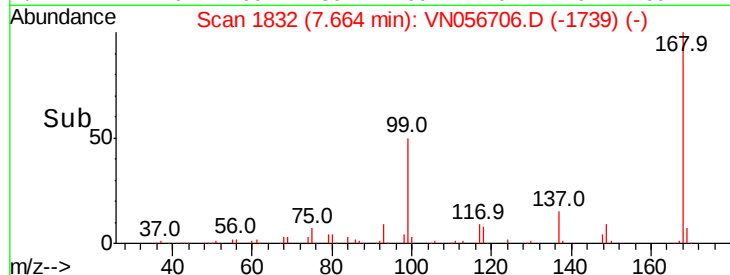
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50000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 0.543 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN056706.D

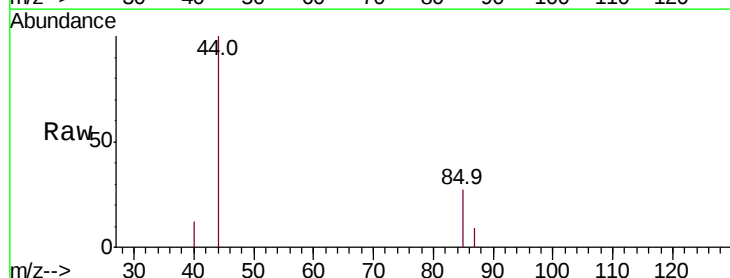
Acq: 15 Jul 2019 12:56

Tgt Ion: 85 Resp: 1658

Ion Ratio Lower Upper

85 100

87 31.6 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VN056706.D (-1) (-)

Ion 86.90 (86.60 to 87.60): VN056706.D (-1) (-)

1.85

1200

1000

800

600

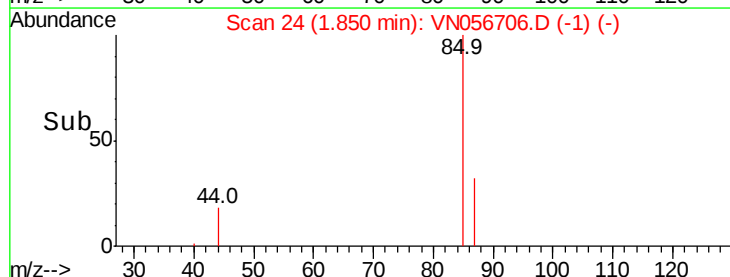
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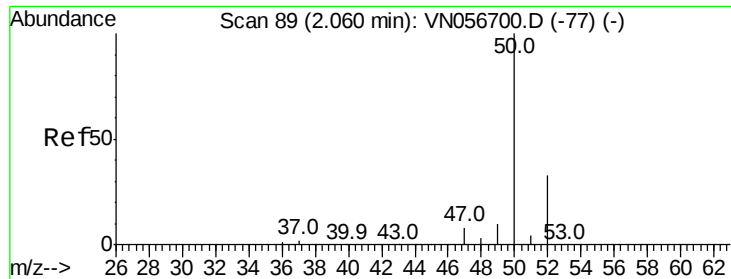
200

0

1.80 1.85 1.90

Time-->





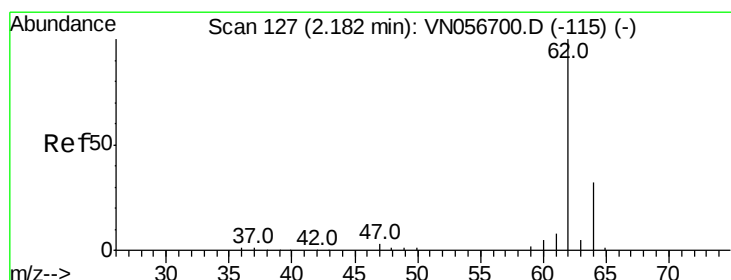
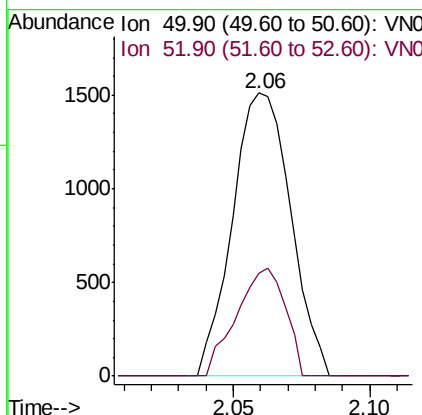
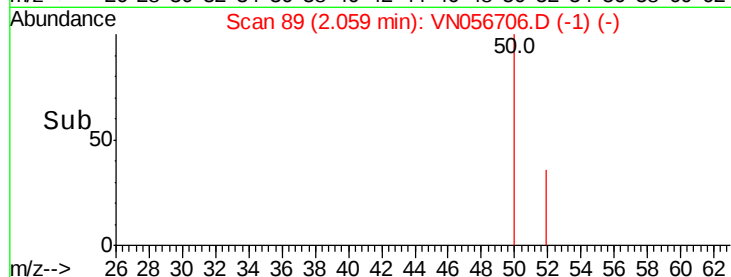
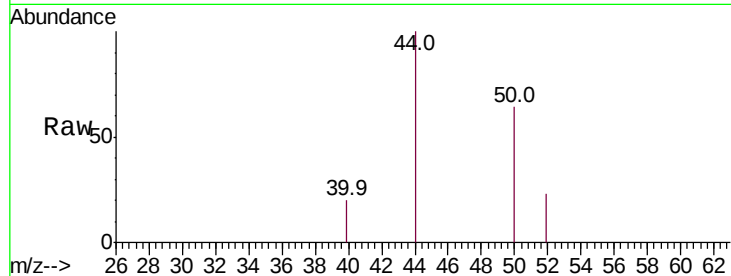
#3
Chloromethane
Concen: 0.545 ug/l
RT: 2.06 min Scan# 89
Delta R.T. -0.00 min
Lab File: VN056706.D
Acq: 15 Jul 2019 12:56

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

Tot Ion: 50 Resp: 2239
Ion Ratio Lower Upper
50 100
52 36.3 26.5 39.7

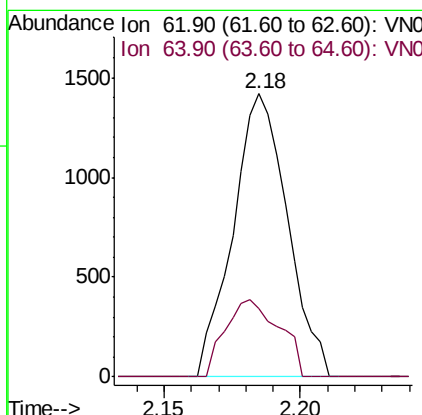
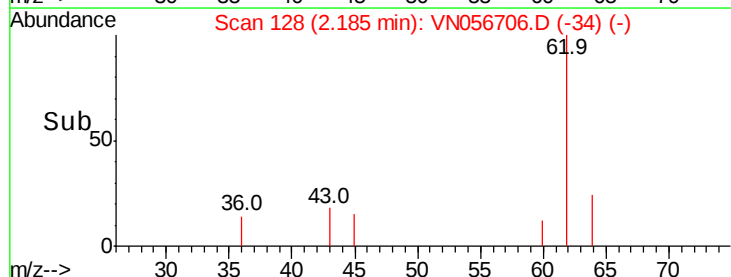
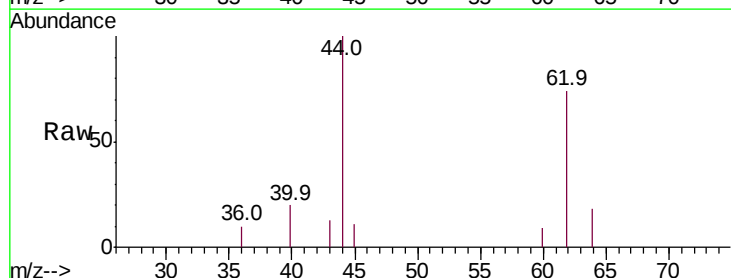
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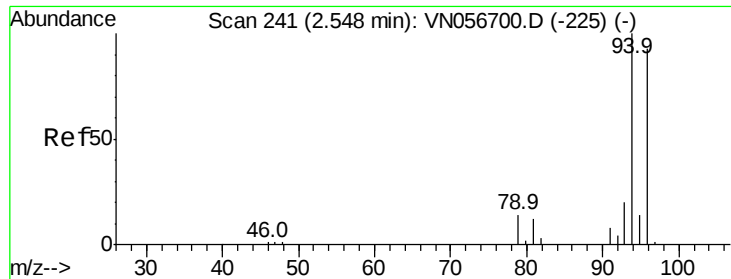
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#4
Vinyl Chloride
Concen: 0.496 ug/l
RT: 2.18 min Scan# 128
Delta R.T. 0.00 min
Lab File: VN056706.D
Acq: 15 Jul 2019 12:56

Tgt Ion: 62 Resp: 1961
Ion Ratio Lower Upper
62 100
64 24.2 25.6 38.4#





#5

Bromomethane

Concen: 0.781 ug/l

RT: 2.56 min Scan# 244

Delta R.T. 0.01 min

Lab File: VN056706.D

Acq: 15 Jul 2019 12:56

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion: 94 Resp: 1816

Ion Ratio Lower Upper

94 100

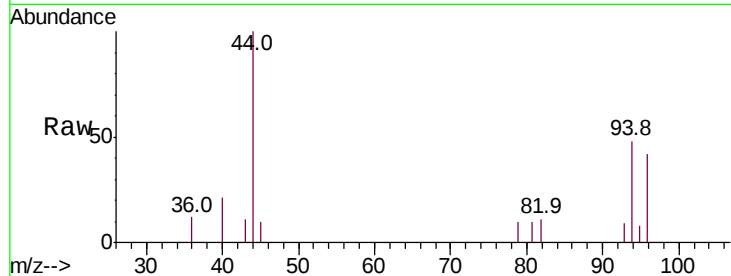
96 88.4 74.0 111.0

Manual Integrations

APPROVED

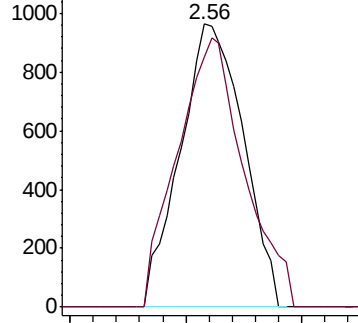
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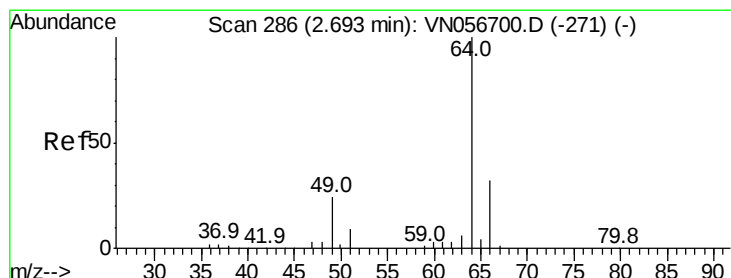
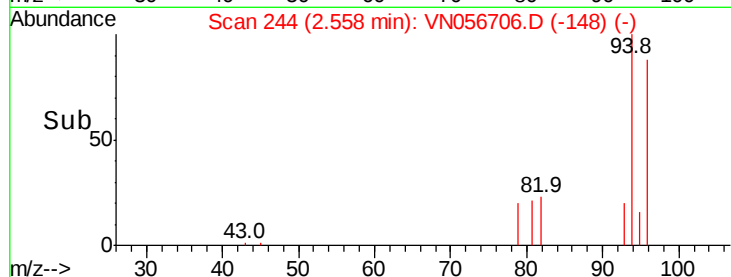


Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



Time-->



#6

Chloroethane

Concen: 0.452 ug/l

RT: 2.70 min Scan# 288

Delta R.T. 0.01 min

Lab File: VN056706.D

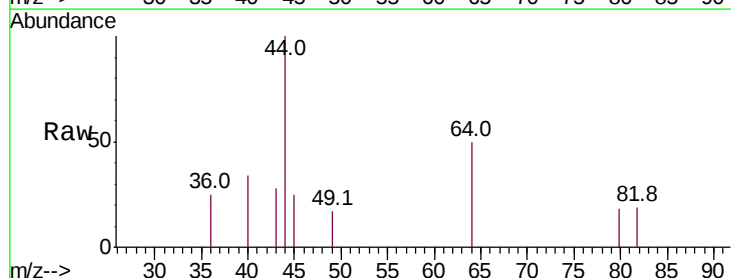
Acq: 15 Jul 2019 12:56

Tgt Ion: 64 Resp: 1041

Ion Ratio Lower Upper

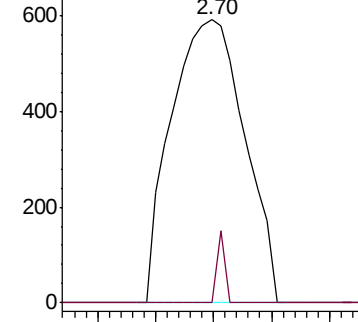
64 100

66 0.0 25.8 38.8#

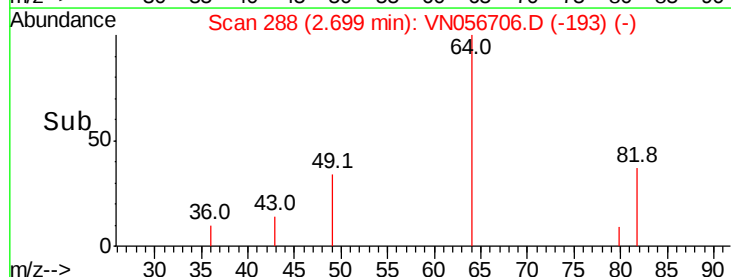


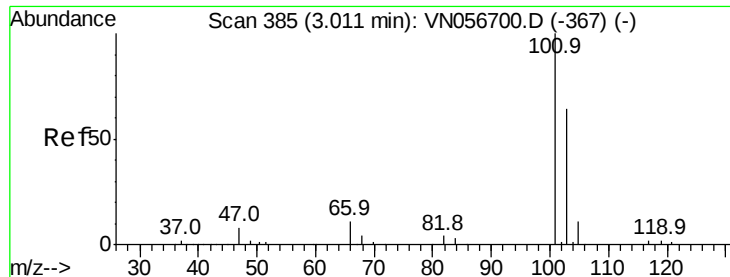
Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0



Time-->





#7

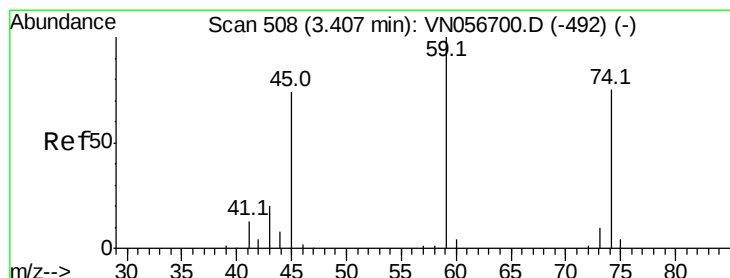
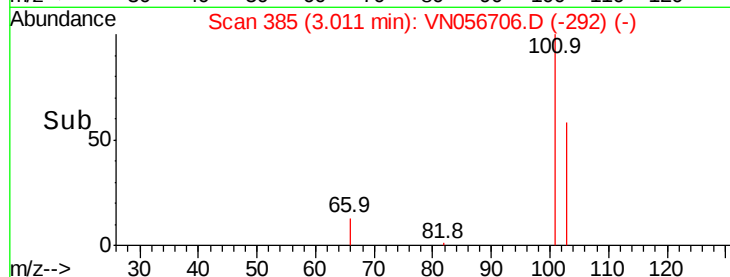
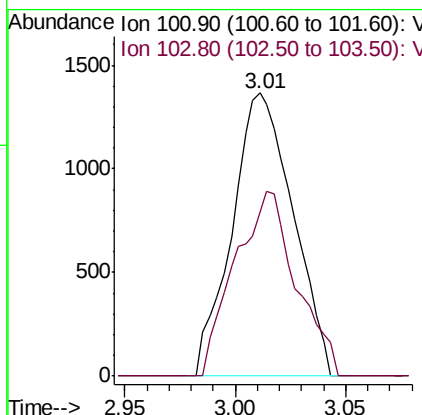
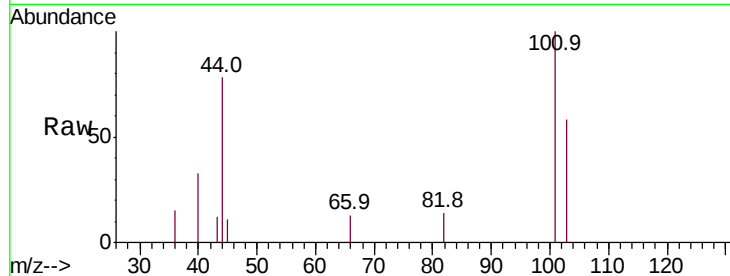
Trichlorofluoromethane
Concen: 0.516 ug/l
RT: 3.01 min Scan# 385
Delta R.T. -0.00 min
Lab File: VN056706.D
Acq: 15 Jul 2019 12:56

Instrument :
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Tot Ion:101 Resp: 2617
Ion Ratio Lower Upper
101 100
103 58.1 51.5 77.3

Manual Integrations
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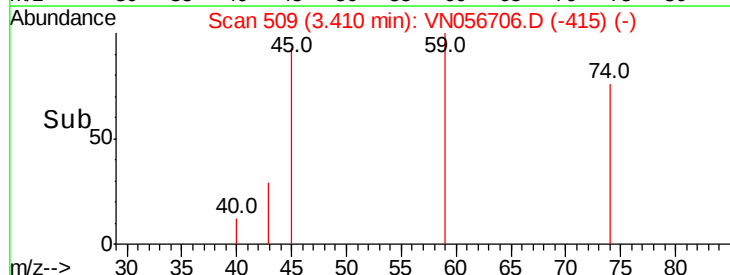
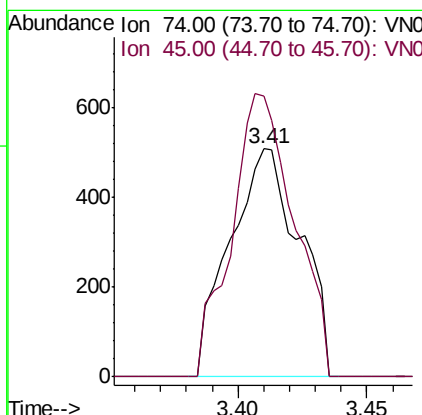
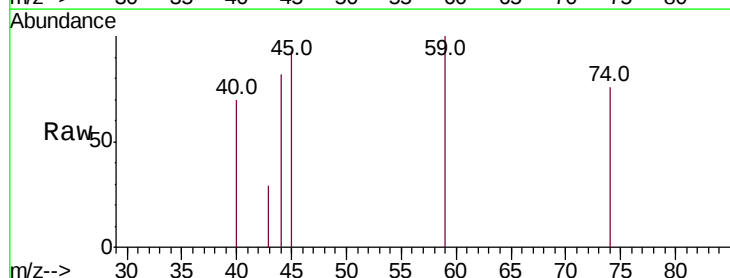
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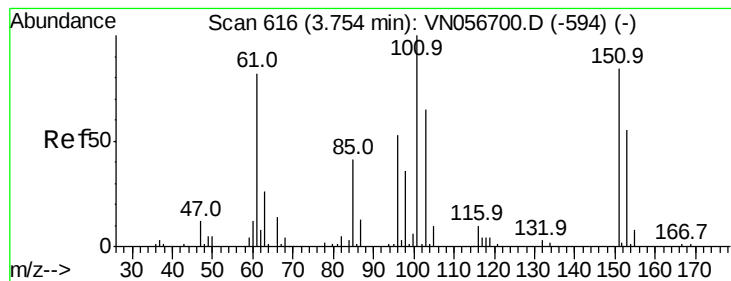


#8

Diethyl Ether
Concen: 0.483 ug/l
RT: 3.41 min Scan# 509
Delta R.T. 0.00 min
Lab File: VN056706.D
Acq: 15 Jul 2019 12:56

Tgt Ion: 74 Resp: 955
Ion Ratio Lower Upper
74 100
45 111.7 49.4 148.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.444 ug/l

RT: 3.76 min Scan# 619

Delta R.T. 0.01 min

Lab File: VN056706.D

Acq: 15 Jul 2019 12:56

Instrument :

MSVOA_N

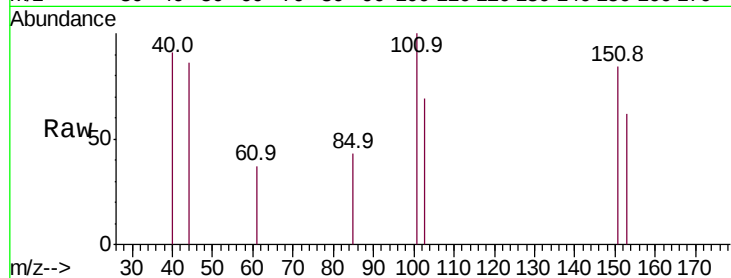
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LOD-MDL-WATER-01-QT3-2019

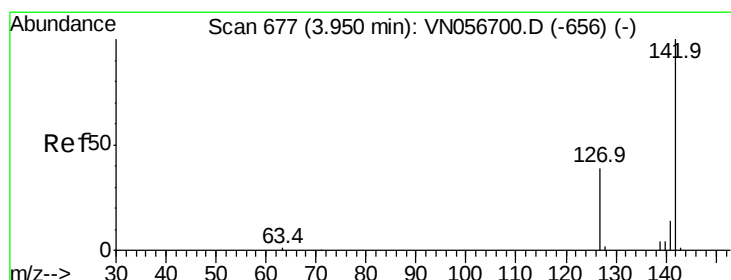
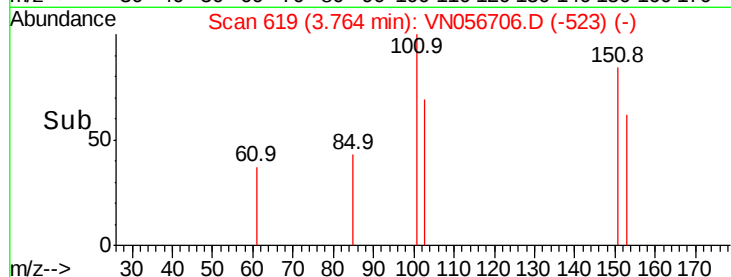
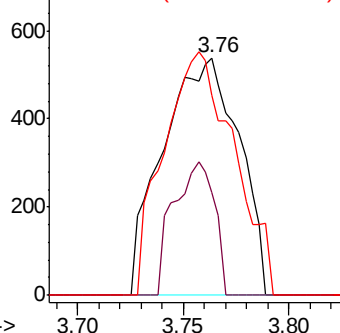
Tot Ion:	101	Resp:	1353
Ion Ratio	Lower	Upper	
101	100		
85	30.0	33.3	49.9#
151	94.5	67.0	100.6

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Abundance Ion 100.90 (100.60 to 101.60): V
Ion 84.90 (84.60 to 85.60): V
Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 0.374 ug/l

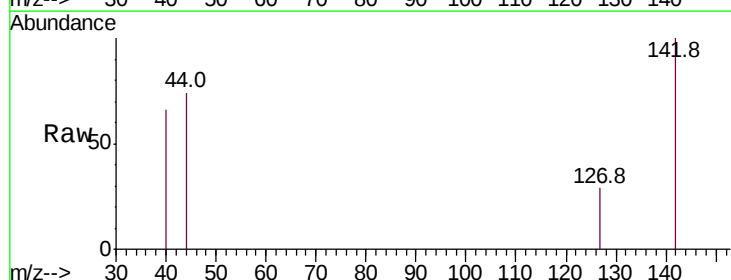
RT: 3.96 min Scan# 679

Delta R.T. 0.01 min

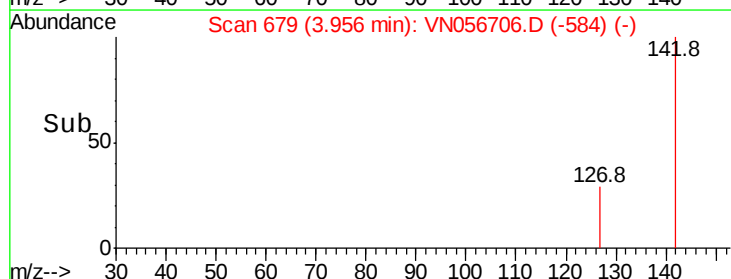
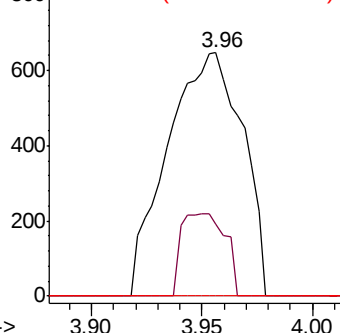
Lab File: VN056706.D

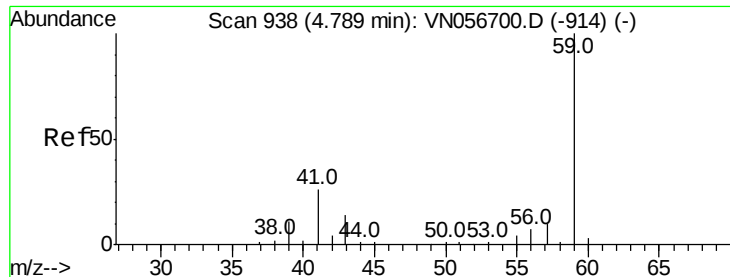
Acq: 15 Jul 2019 12:56

Tgt Ion:	142	Resp:	1526
Ion Ratio	Lower	Upper	
142	100		
127	19.9	30.7	46.1#
141	0.0	11.3	16.9#



Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V





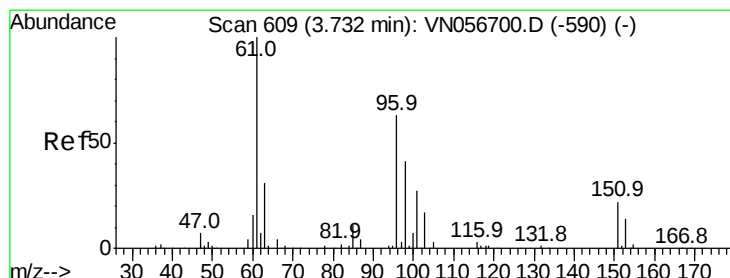
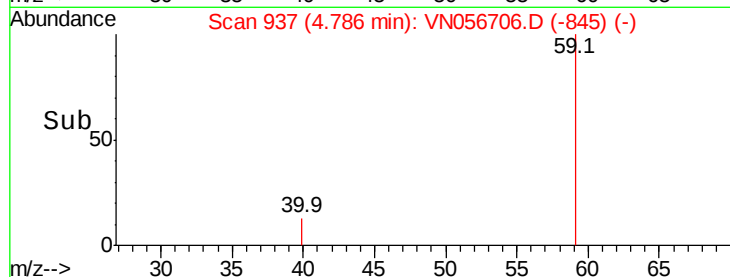
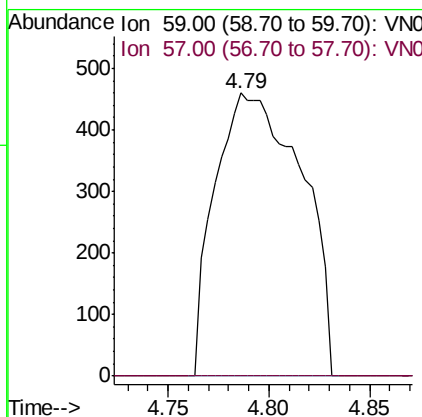
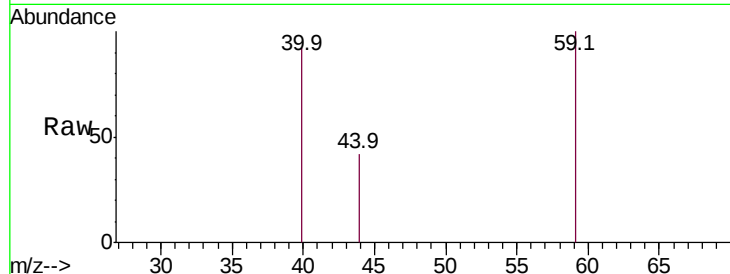
#11
Tert butyl alcohol
Concen: 2.280 ug/l
RT: 4.79 min Scan# 937
Delta R.T. -0.00 min
Lab File: VN056706.D
Acq: 15 Jul 2019 12:56

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

Tot Ion: 59 Resp: 1365
Ion Ratio Lower Upper
59 100
57 0.0 8.0 12.0#

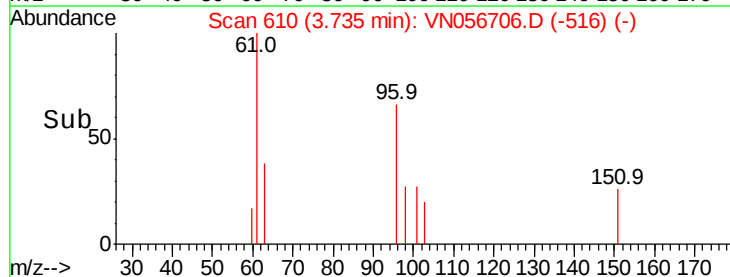
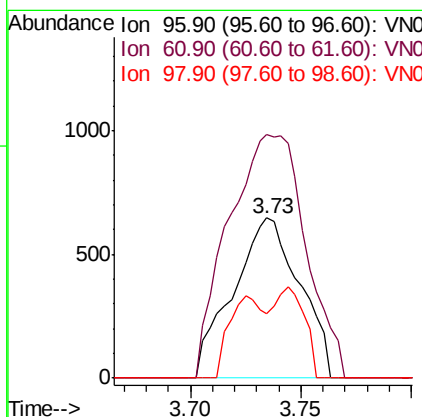
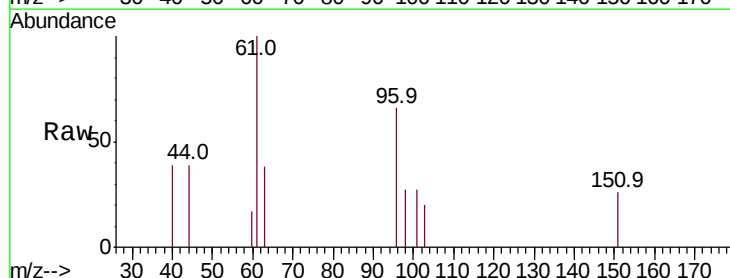
Manual Integrations
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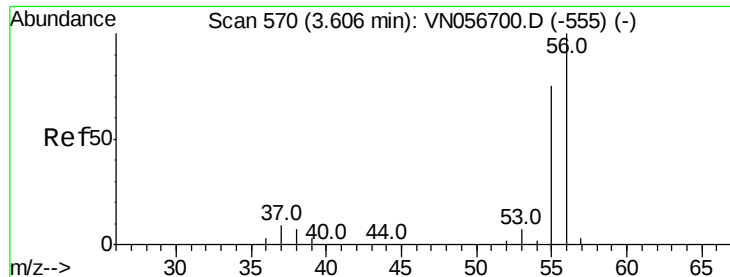
MMDadoda
7/17/2019 1:31:31 AM



#12
1,1-Dichloroethene
Concen: 0.443 ug/l
RT: 3.73 min Scan# 610
Delta R.T. 0.00 min
Lab File: VN056706.D
Acq: 15 Jul 2019 12:56

Tgt Ion: 96 Resp: 1355
Ion Ratio Lower Upper
96 100
61 151.9 126.6 189.8
98 40.3 51.4 77.2#





#13

Acrolein

Concen: 4.257 ug/l

RT: 3.62 min Scan# 575

Delta R.T. 0.02 min

Lab File: VN056706.D

Acq: 15 Jul 2019 12:56

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion: 56 Resp: 925

Ion Ratio Lower Upper

56 100

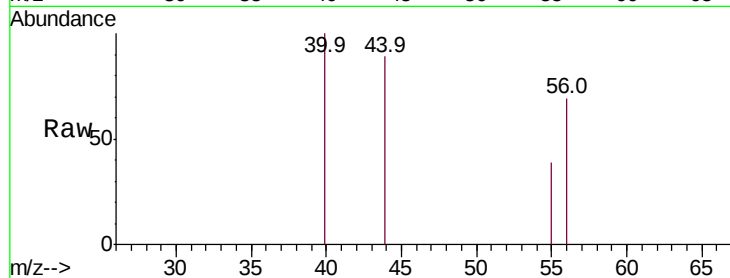
55 61.9 58.0 87.0

Manual Integrations

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MMDadoda

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Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.62

400

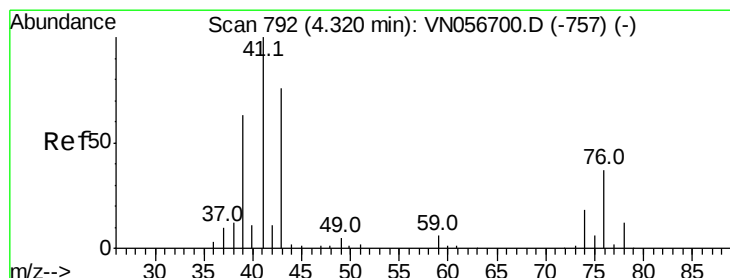
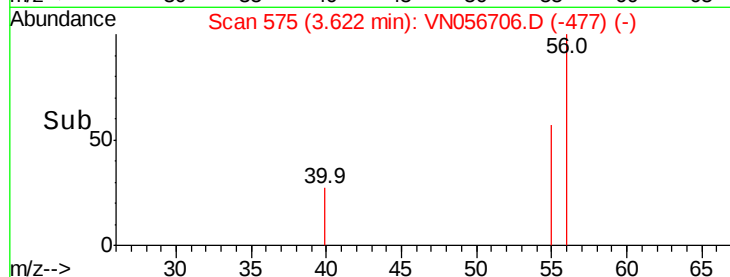
300

200

100

0

Time--> 3.55 3.60 3.65



#14

Allyl chloride

Concen: 0.482 ug/l

RT: 4.32 min Scan# 793

Delta R.T. 0.00 min

Lab File: VN056706.D

Acq: 15 Jul 2019 12:56

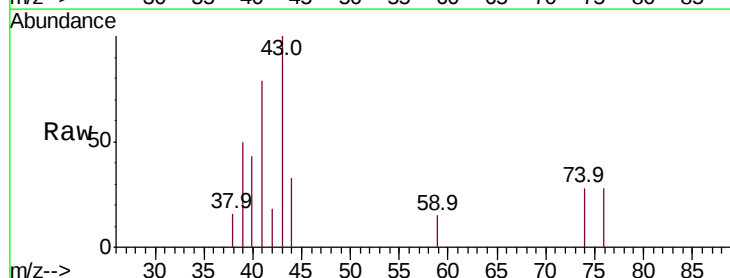
Tgt Ion: 41 Resp: 2549

Ion Ratio Lower Upper

41 100

39 0.0 46.9 70.3#

76 22.3 26.5 39.7#



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0

1200

1000

800

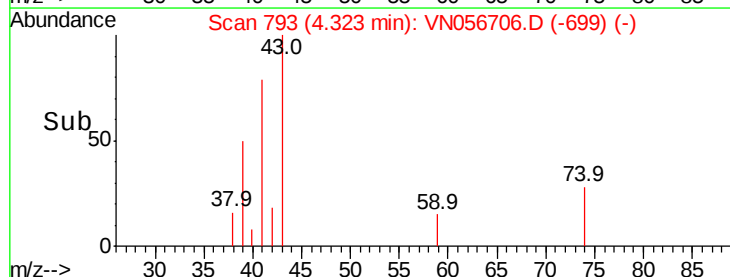
600

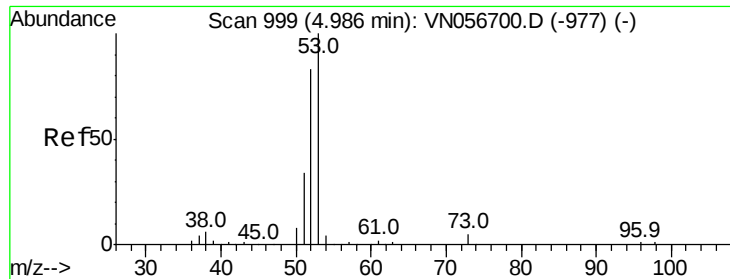
400

200

0

Time--> 4.25 4.30 4.35 4.40





#15

Acrylonitrile

Concen: 2.188 ug/l

RT: 5.00 min Scan# 1005

Delta R.T. 0.02 min

Lab File: VN056706.D

Acq: 15 Jul 2019 12:56

Instrument :

MSVOA_N

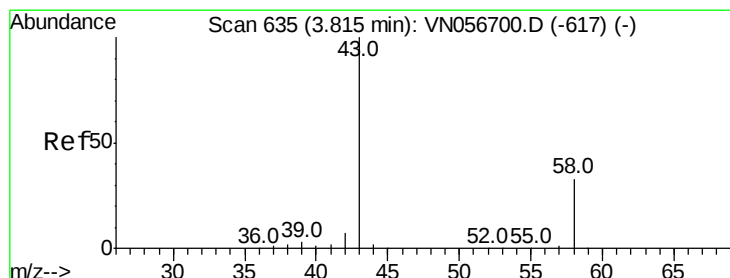
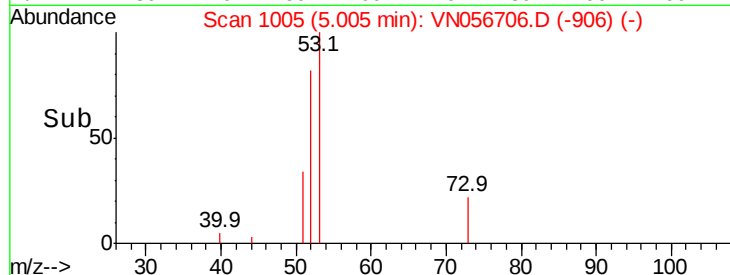
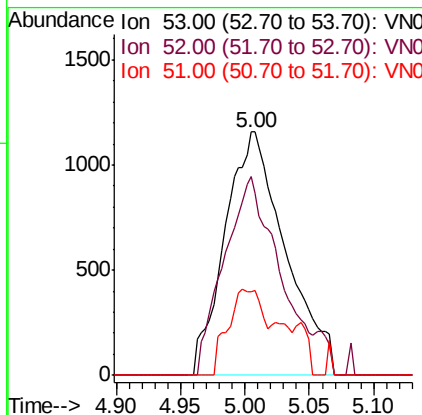
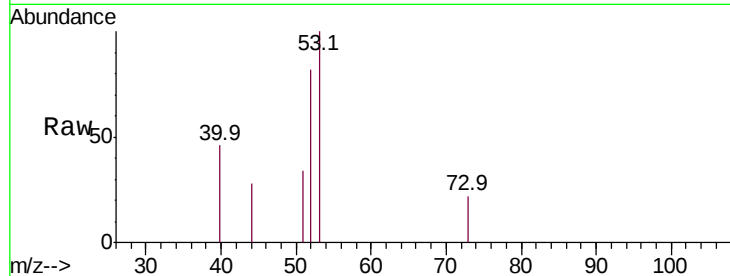
ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion:	53	Resp:	3783
Ion	Ratio	Lower	Upper
53	100		
52	73.8	66.6	99.8
51	20.2	28.4	42.6#

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#16

Acetone

Concen: 2.675 ug/l

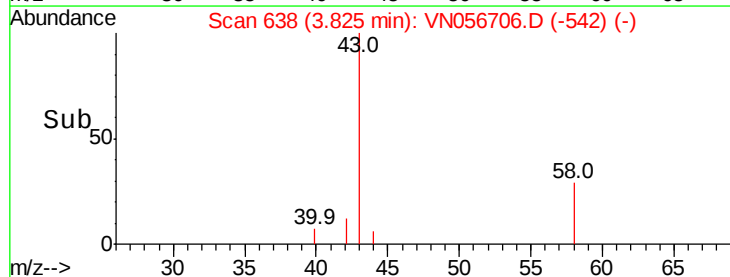
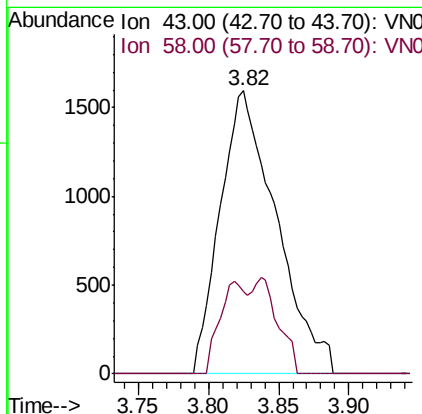
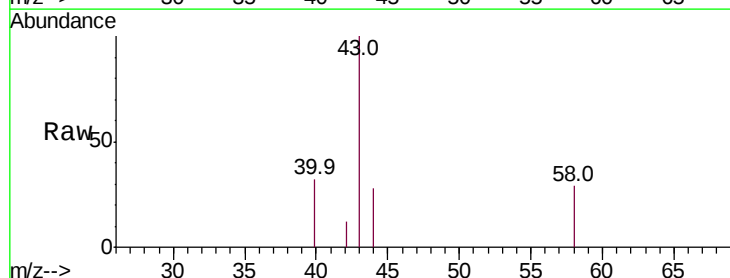
RT: 3.82 min Scan# 638

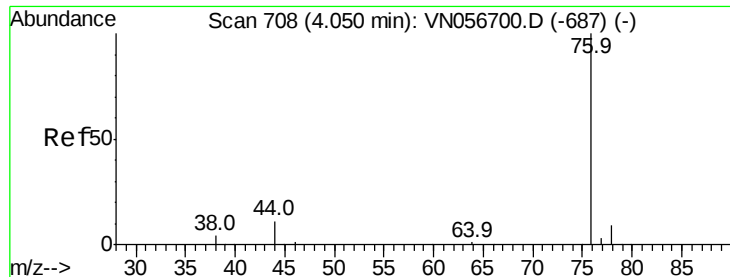
Delta R.T. 0.01 min

Lab File: VN056706.D

Acq: 15 Jul 2019 12:56

Tgt Ion:	43	Resp:	4435
Ion	Ratio	Lower	Upper
43	100		
58	29.0	26.7	40.1





#17

Carbon Disulfide

Concen: 0.536 ug/l

RT: 4.05 min Scan# 707

Delta R.T. -0.00 min

Lab File: VN056706.D

Acq: 15 Jul 2019 12:56

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion: 76 Resp: 4331

Ion Ratio Lower Upper

76 100

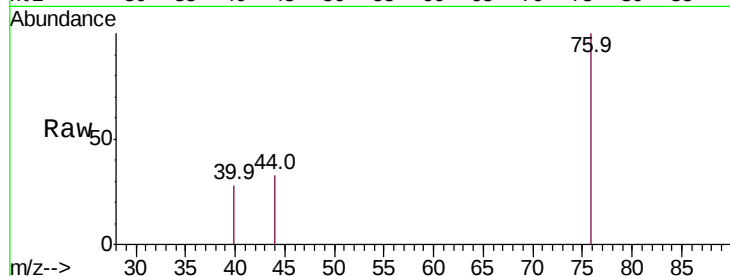
78 0.0 7.4 11.0#

Manual Integrations

APPROVED

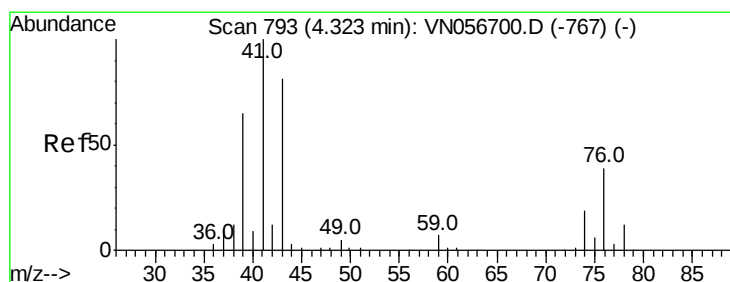
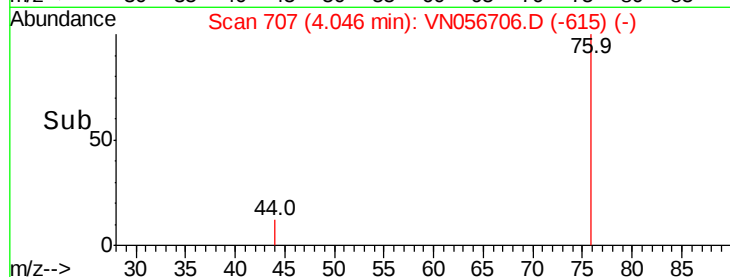
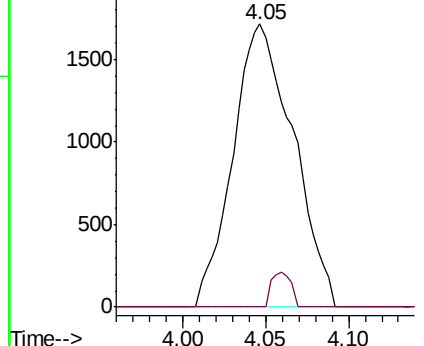
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Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#18

Methyl Acetate

Concen: 1.031 ug/l m

RT: 4.33 min Scan# 796

Delta R.T. 0.01 min

Lab File: VN056706.D

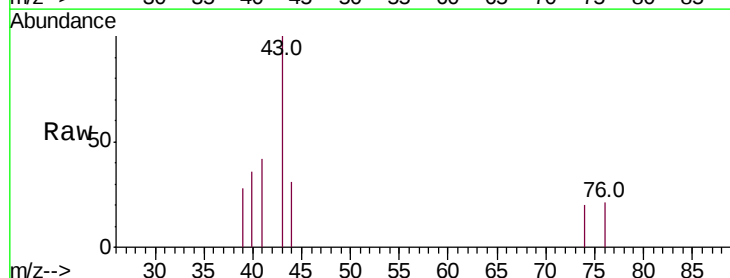
Acq: 15 Jul 2019 12:56

Tgt Ion: 43 Resp: 4585

Ion Ratio Lower Upper

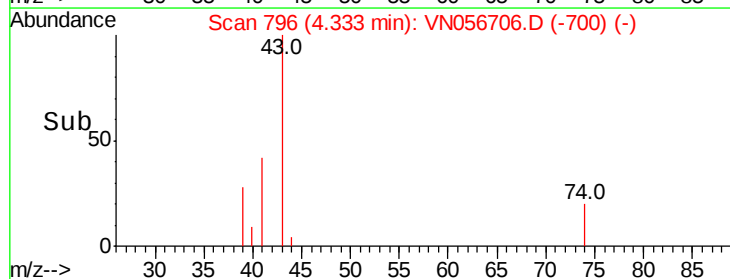
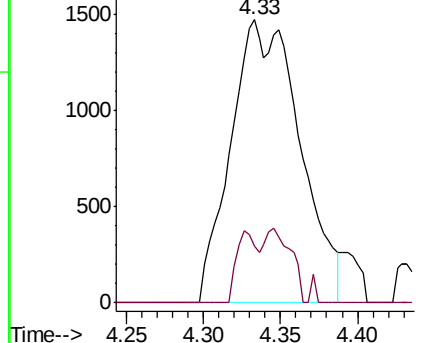
43 100

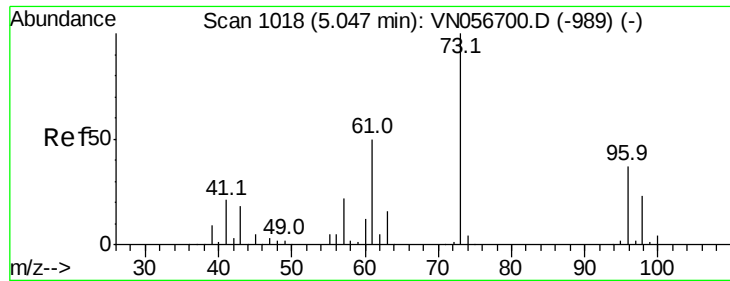
74 7.5 18.9 28.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#19

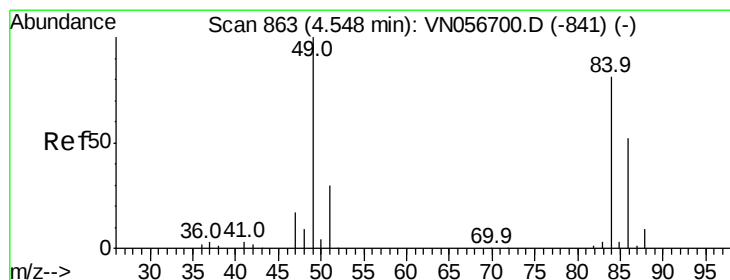
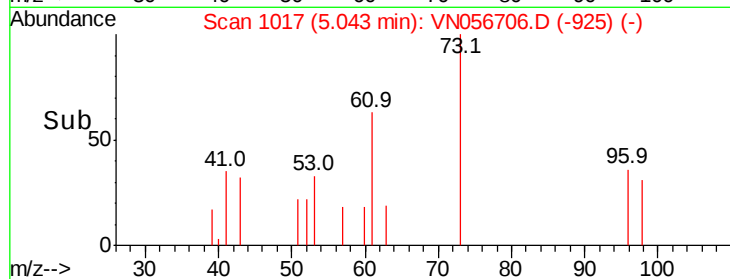
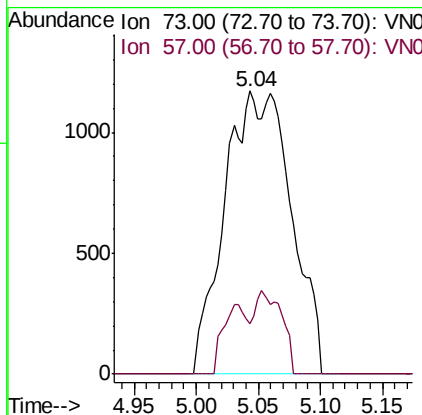
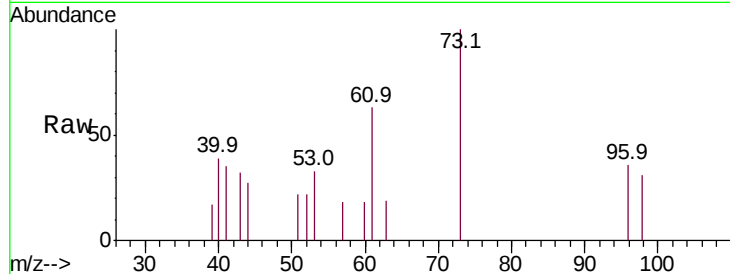
Methyl tert-butyl Ether
 Concen: 0.447 ug/l m
 RT: 5.04 min Scan# 1017
 Delta R.T. -0.00 min
 Lab File: VN056706.D
 Acq: 15 Jul 2019 12:56

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

Tot Ion: 73 Resp: 4358
 Ion Ratio Lower Upper
 73 100
 57 17.9 17.9 26.9

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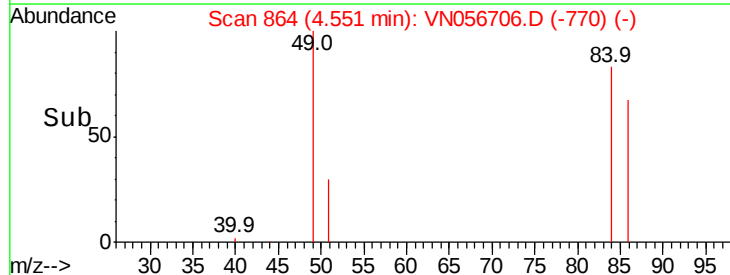
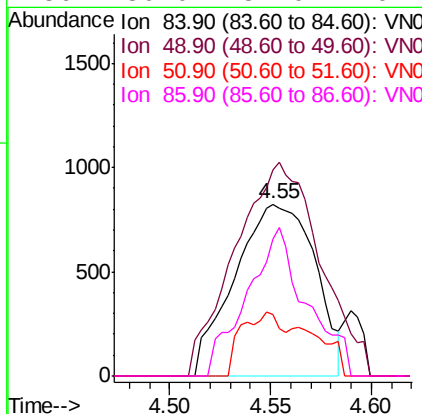
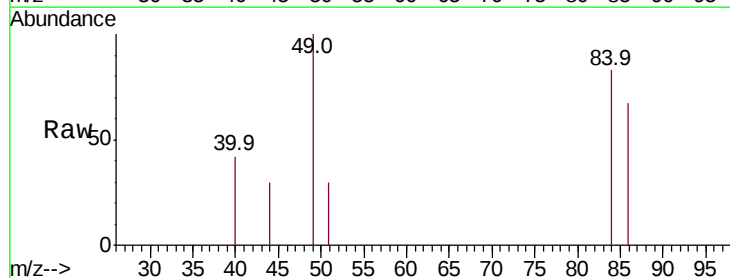
MMDadoda
 7/17/2019 1:31:31 AM

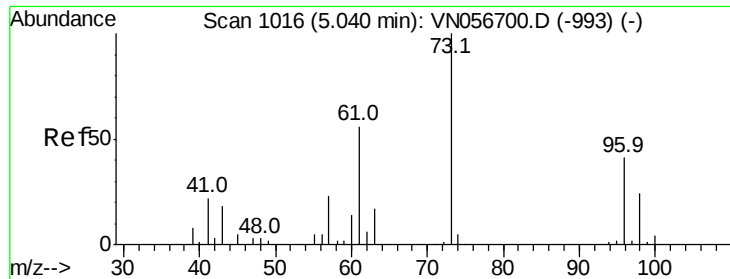


#20

Methylene Chloride
 Concen: 0.631 ug/l
 RT: 4.55 min Scan# 864
 Delta R.T. 0.00 min
 Lab File: VN056706.D
 Acq: 15 Jul 2019 12:56

Tgt Ion: 84 Resp: 2285
 Ion Ratio Lower Upper
 84 100
 49 119.9 98.2 147.4
 51 35.4 29.6 44.4
 86 80.0 51.0 76.4#





#21

trans-1,2-Dichloroethene

Concen: 0.460 ug/l m

RT: 5.05 min Scan# 1020

Delta R.T. 0.01 min

Lab File: VN056706.D

Acq: 15 Jul 2019 12:56

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion: 96 Resp: 1485

Ion Ratio Lower Upper

96 100

61 97.0 109.4 164.2#

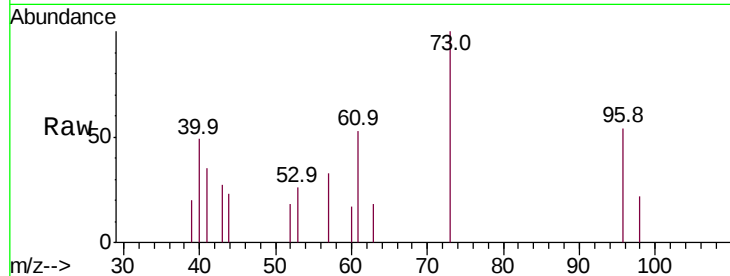
98 41.3 48.0 72.0#

Manual Integrations

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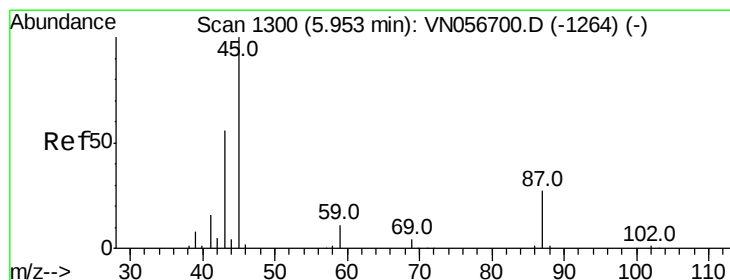
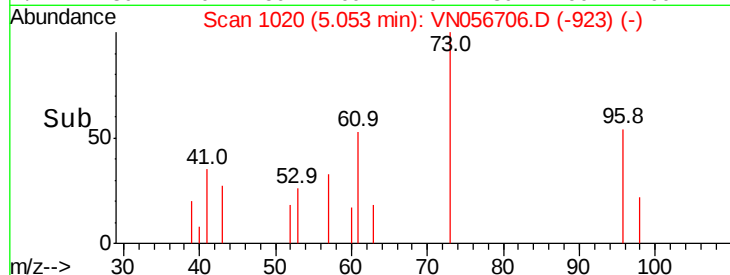
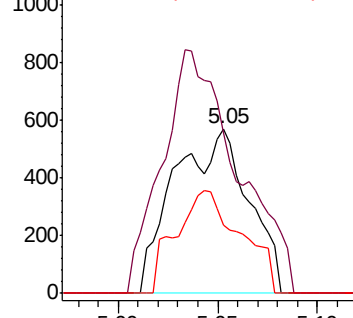
7/17/2019 1:31:31 AM



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: 0.479 ug/l

RT: 5.95 min Scan# 1300

Delta R.T. -0.00 min

Lab File: VN056706.D

Acq: 15 Jul 2019 12:56

Tgt Ion: 45 Resp: 4997

Ion Ratio Lower Upper

45 100

43 66.9 45.6 68.4

87 25.3 22.0 33.0

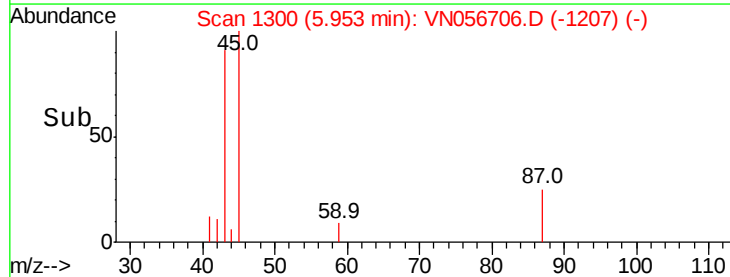
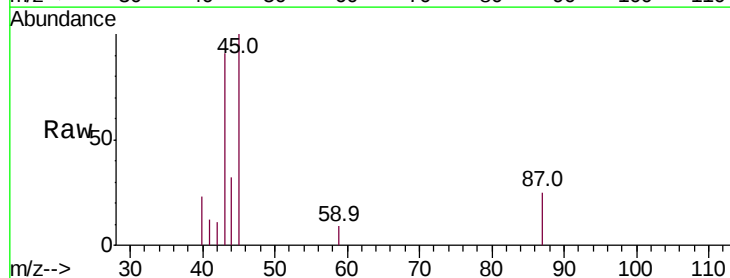
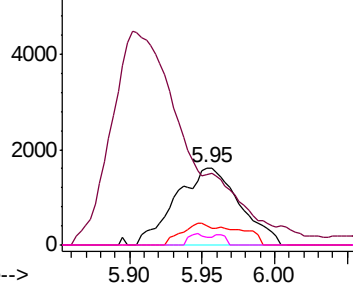
59 9.3 9.3 13.9

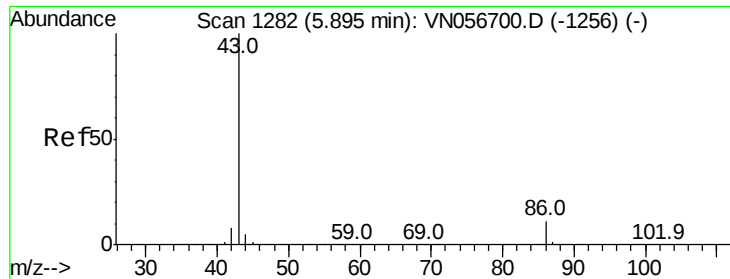
Abundance Ion 45.00 (44.70 to 45.70): VNC

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: 2.045 ug/l

RT: 5.90 min Scan# 1284

Delta R.T. 0.01 min

Lab File: VN056706.D

Acq: 15 Jul 2019 12:56

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion: 43 Resp: 17298

Ion Ratio Lower Upper

43 100

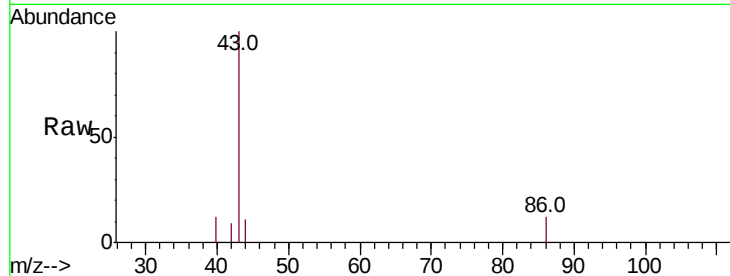
86 12.0 8.5 12.7

Manual Integrations

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7/17/2019 1:31:31 AM



Abundance Ion 43.00 (42.70 to 43.70): VN056700.D (-1256) (-)

Ion 86.00 (85.70 to 86.70): VN056700.D (-1256) (-)

5000

4000

3000

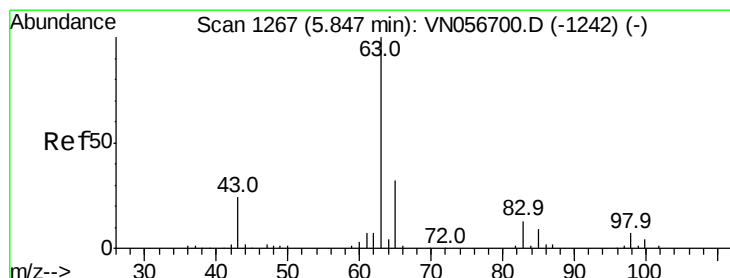
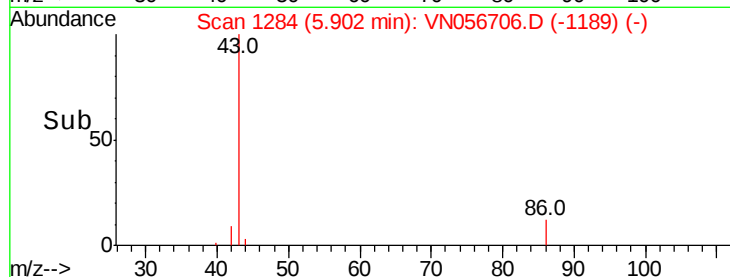
2000

1000

0

5.80 5.90 6.00 6.10

Time-->



#24

1,1-Dichloroethane

Concen: 0.457 ug/l m

RT: 5.84 min Scan# 1266

Delta R.T. -0.00 min

Lab File: VN056706.D

Acq: 15 Jul 2019 12:56

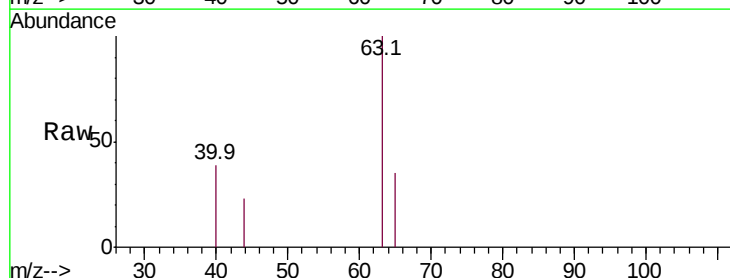
Tgt Ion: 63 Resp: 2767

Ion Ratio Lower Upper

63 100

98 0.0 3.3 9.9#

100 0.0 2.0 5.8#



Abundance Ion 62.90 (62.60 to 63.60): VN056706.D (-1174) (-)

Ion 97.90 (97.60 to 98.60): VN056706.D (-1174) (-)

Ion 99.90 (99.60 to 100.60): VN056706.D (-1174) (-)

1200

1000

800

600

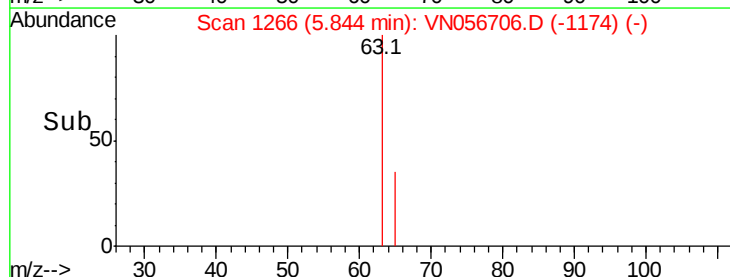
400

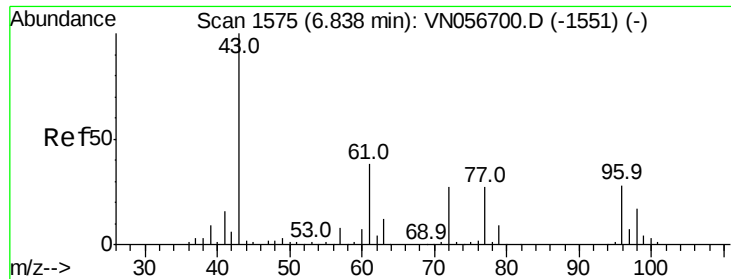
200

0

5.80 5.85 5.90

Time-->





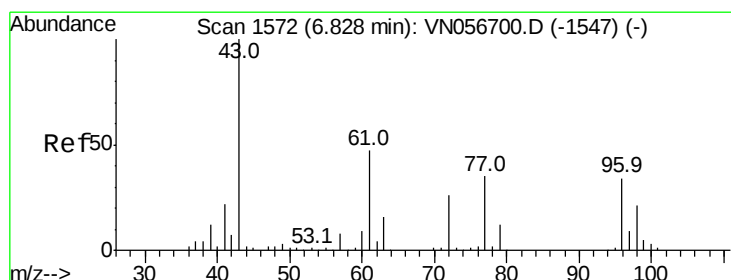
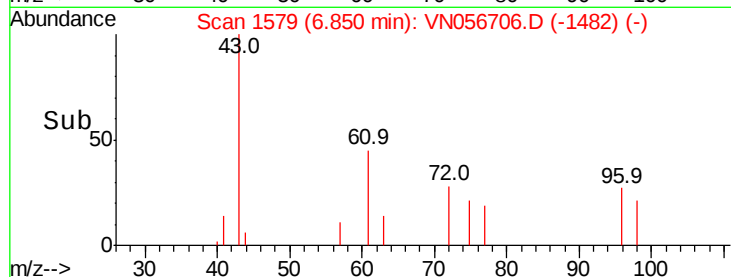
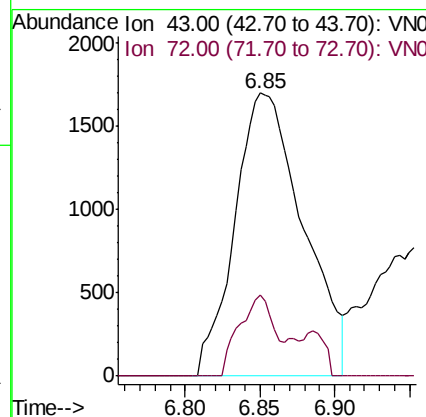
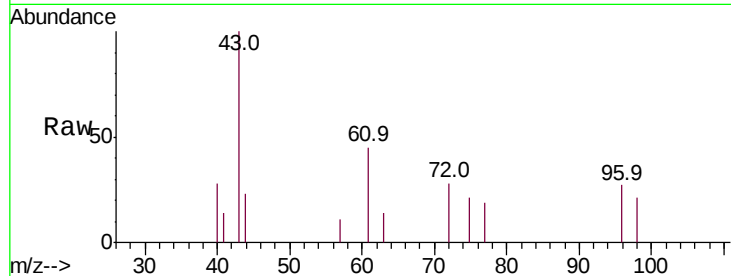
#25
2-Butanone
Concen: 2.226 ug/l
RT: 6.85 min Scan# 1579
Delta R.T. 0.01 min
Lab File: VN056706.D
Acq: 15 Jul 2019 12:56

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

Tot Ion: 43 Resp: 5394
Ion Ratio Lower Upper
43 100
72 28.5 21.2 31.8

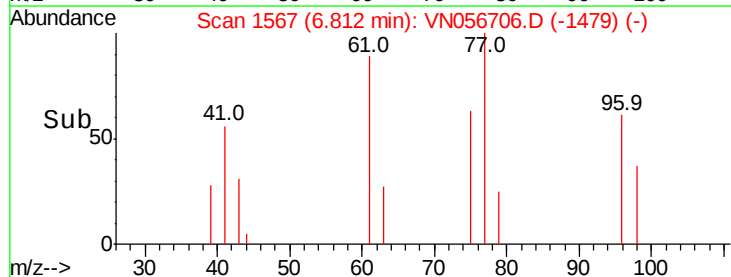
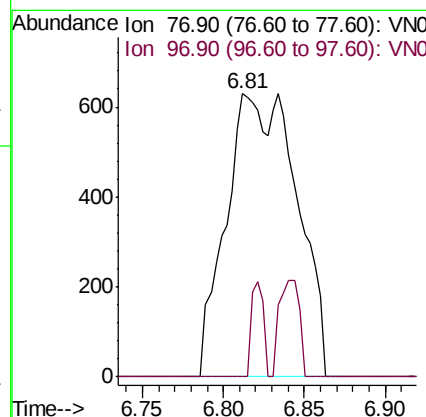
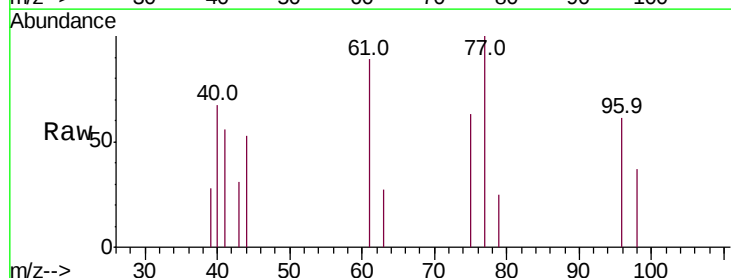
Manual Integrations
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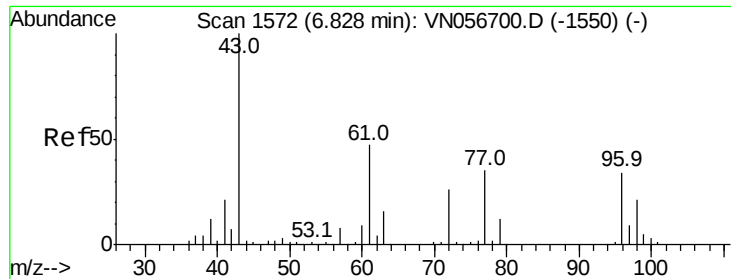
MMDadoda
7/17/2019 1:31:31 AM



#26
2,2-Dichloropropane
Concen: 0.437 ug/l m
RT: 6.81 min Scan# 1567
Delta R.T. -0.02 min
Lab File: VN056706.D
Acq: 15 Jul 2019 12:56

Tgt Ion: 77 Resp: 1905
Ion Ratio Lower Upper
77 100
97 5.8 12.2 36.6#





#27

cis-1,2-Dichloroethene

Concen: 0.484 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN056706.D

Acq: 15 Jul 2019 12:56

Instrument :

MSVOA_N

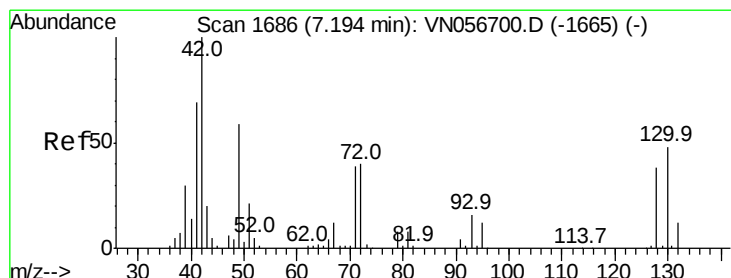
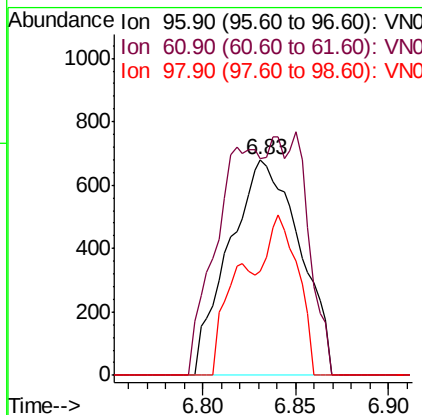
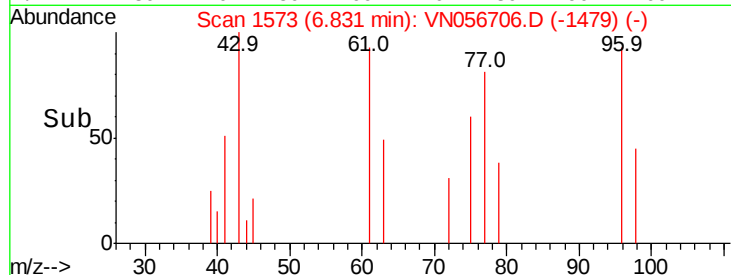
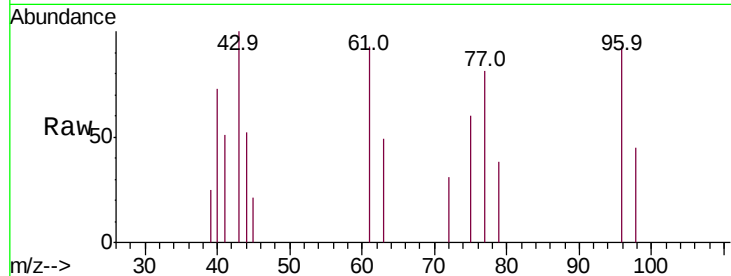
ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion:	96	Resp:	1801
Ion	Ratio	Lower	Upper
96	100		
61	0.0	0.0	281.4
98	32.6	0.0	127.8

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7/17/2019 1:31:31 AM



#28

Bromochloromethane

Concen: 0.443 ug/l

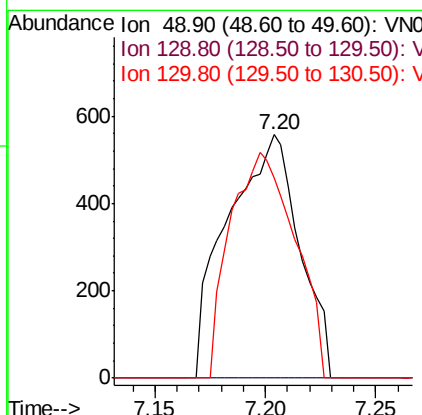
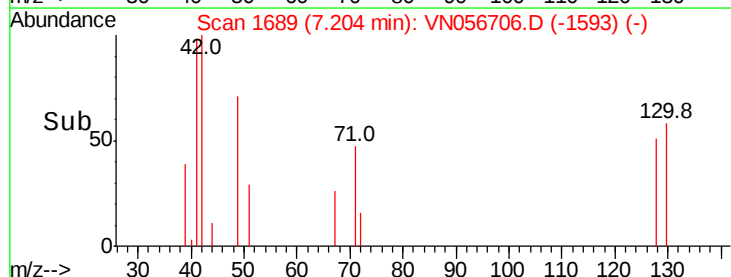
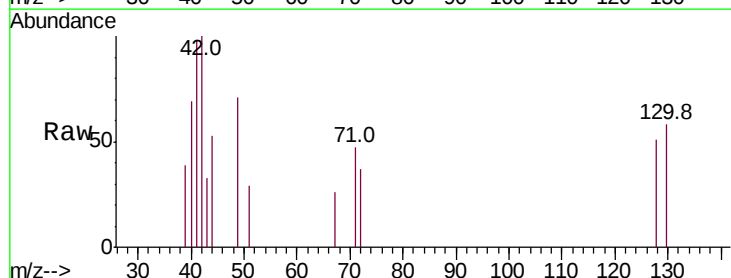
RT: 7.20 min Scan# 1689

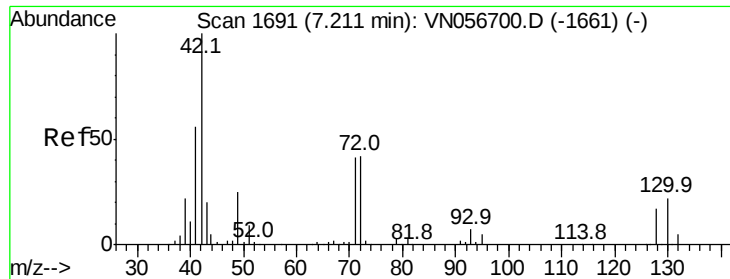
Delta R.T. 0.01 min

Lab File: VN056706.D

Acq: 15 Jul 2019 12:56

Tgt Ion:	49	Resp:	1261
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.0
130	83.4	64.7	97.1





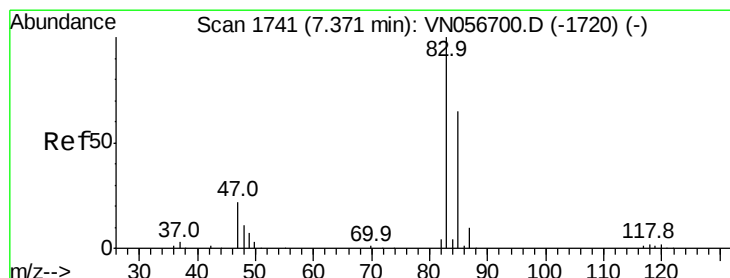
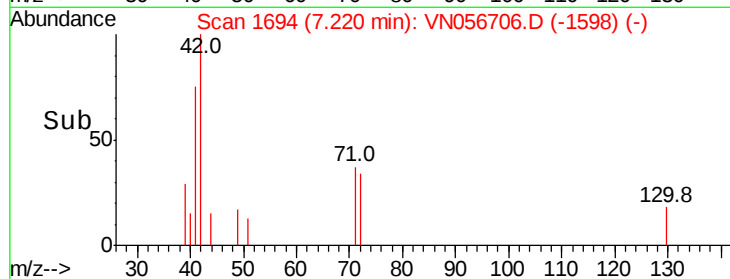
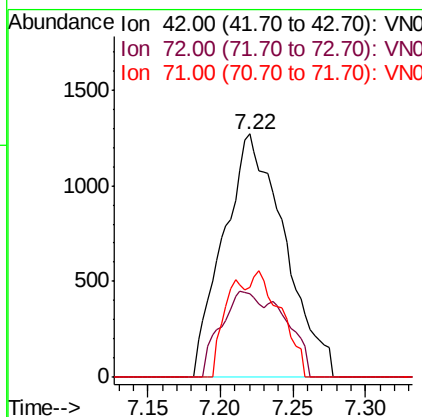
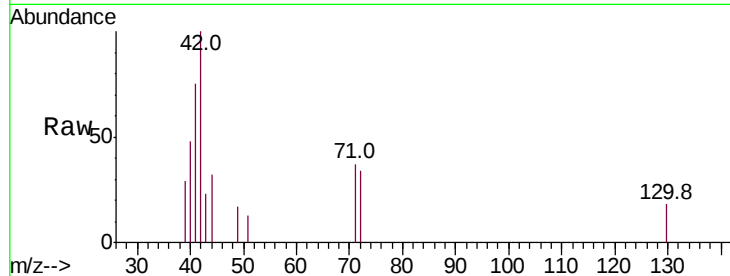
#29
Tetrahydrofuran
Concen: 2.358 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. 0.01 min
Lab File: VN056706.D
Acq: 15 Jul 2019 12:56

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

Tot Ion	Ratio	Lower	Upper
42	100		
72	23.0	33.5	50.3#
71	14.2	31.8	47.8#

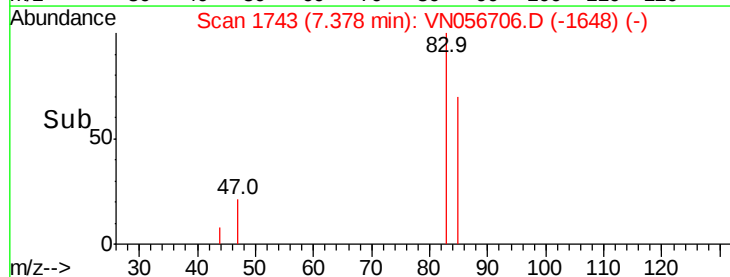
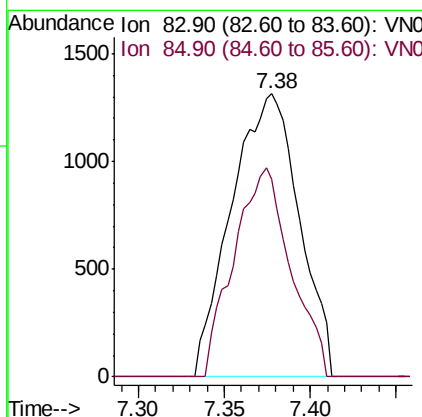
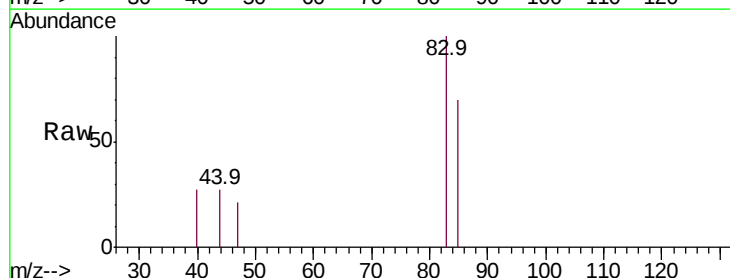
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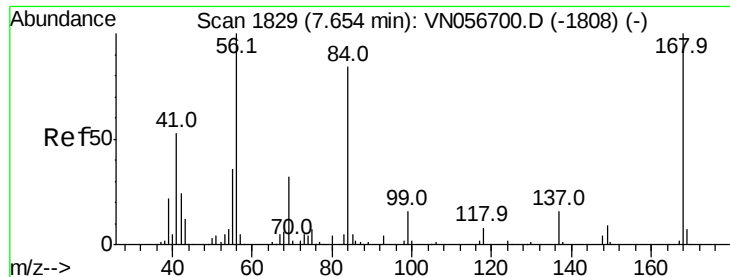
MMDadoda
7/17/2019 1:31:31 AM



#30
Chloroform
Concen: 0.596 ug/l
RT: 7.38 min Scan# 1743
Delta R.T. 0.01 min
Lab File: VN056706.D
Acq: 15 Jul 2019 12:56

Tgt Ion	Ratio	Lower	Upper
83	100		
85	69.8	51.9	77.9





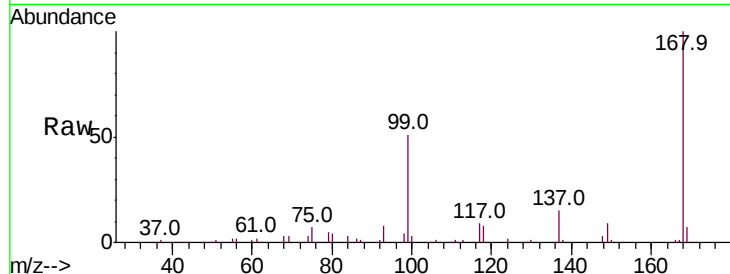
#31
Cyclohexane
Concen: 1.381 ug/l
RT: 7.66 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN056706.D
Acq: 15 Jul 2019 12:56

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

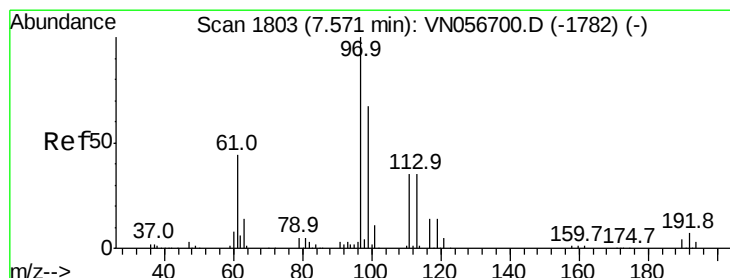
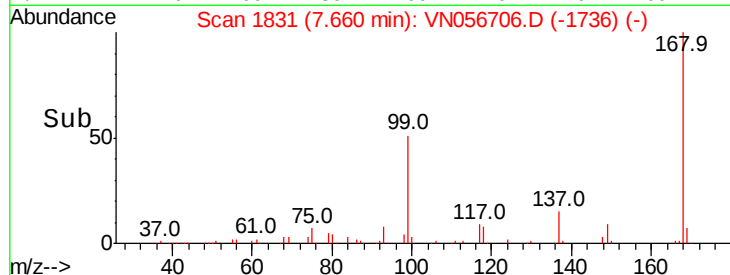
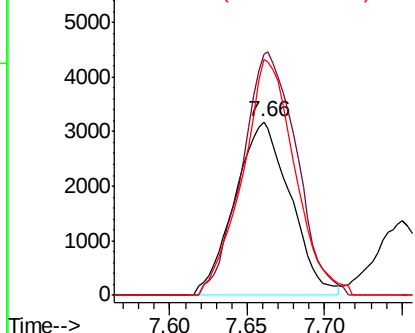
Tot Ion: 56 Resp: 7944
Ion Ratio Lower Upper
56 100
69 138.5 25.8 38.8#
84 135.6 67.4 101.0#

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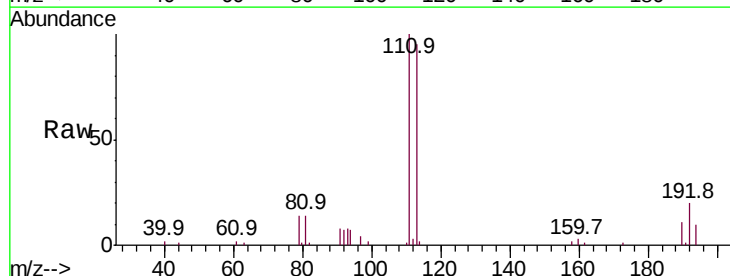


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

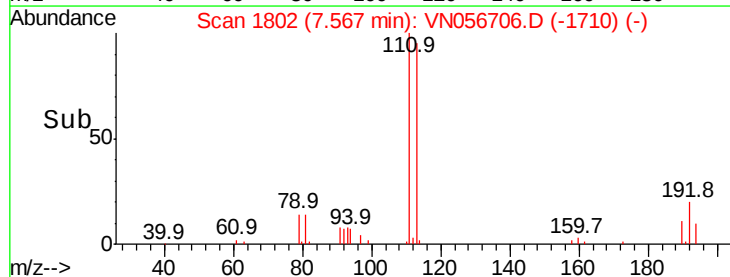
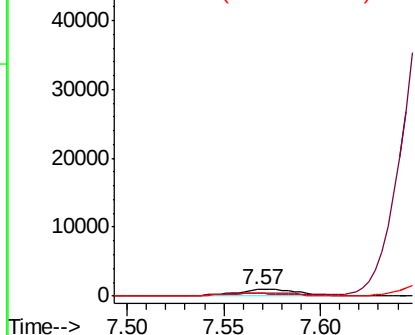


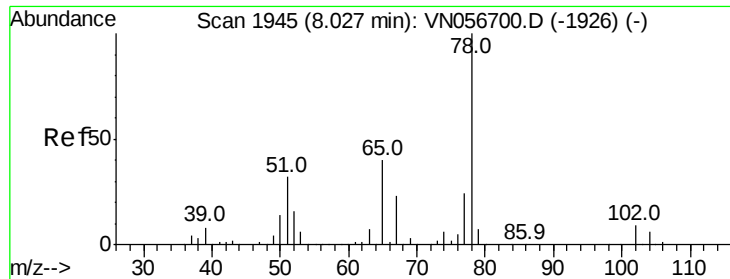
#32
1,1,1-Trichloroethane
Concen: 0.456 ug/l
RT: 7.57 min Scan# 1802
Delta R.T. -0.00 min
Lab File: VN056706.D
Acq: 15 Jul 2019 12:56

Tgt Ion: 97 Resp: 2185
Ion Ratio Lower Upper
97 100
99 0.0 52.0 78.0#
61 36.7 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





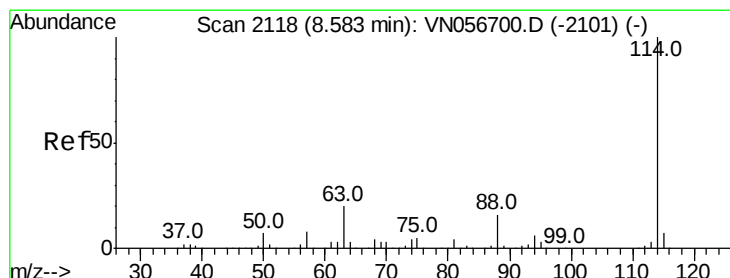
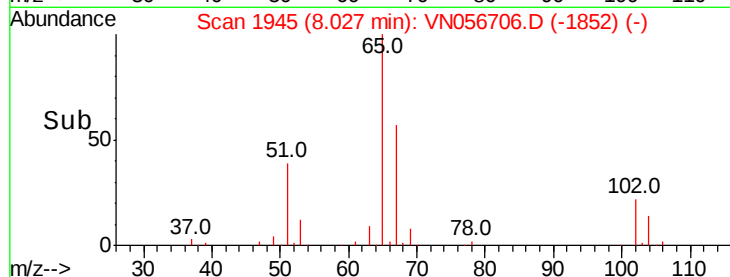
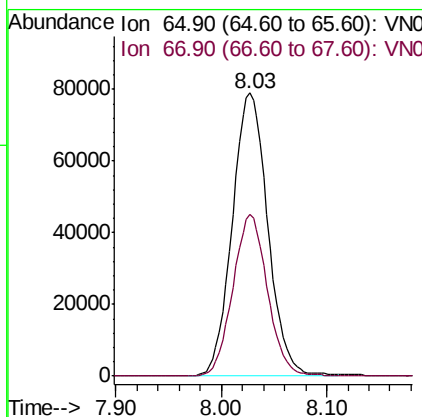
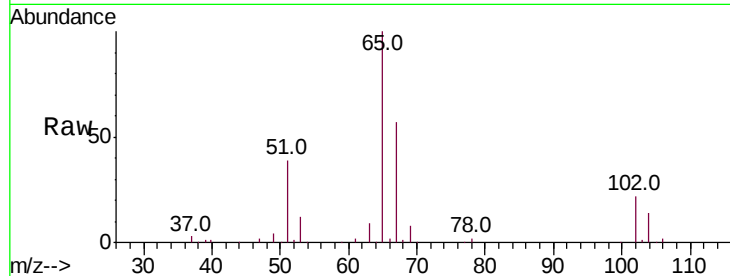
#33
 1,2-Dichloroethane-d4
 Concen: 51.352 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN056706.D
 Acq: 15 Jul 2019 12:56

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

Tot Ion	Ratio	Resp	Lower	Upper
65	100	184733		
67	55.6	0.0	109.0	

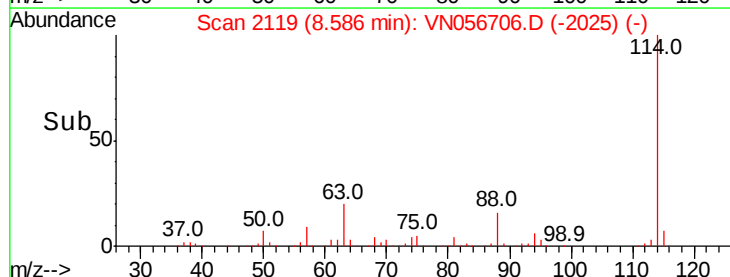
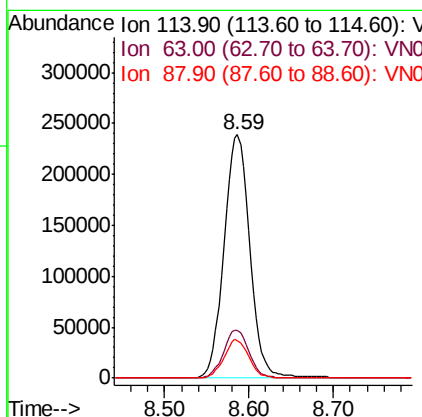
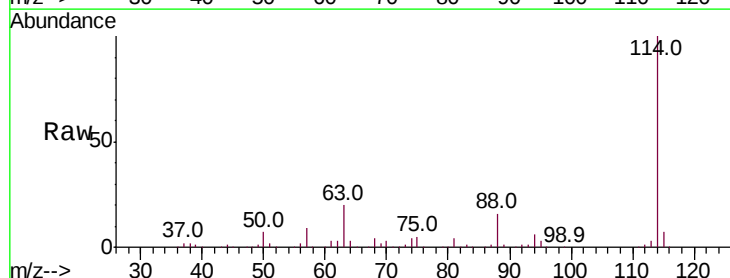
Manual Integrations
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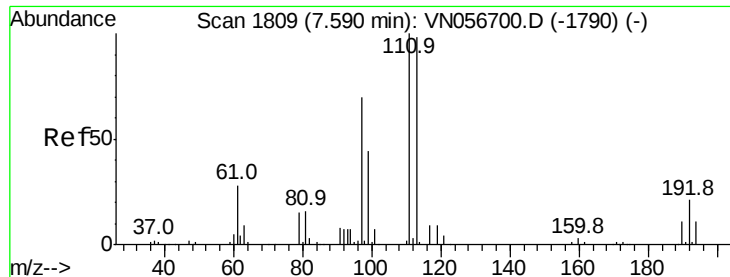
MMDadoda
 7/17/2019 1:31:31 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN056706.D
 Acq: 15 Jul 2019 12:56

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	508089		
63	19.8	0.0	39.4	
88	15.6	0.0	31.2	





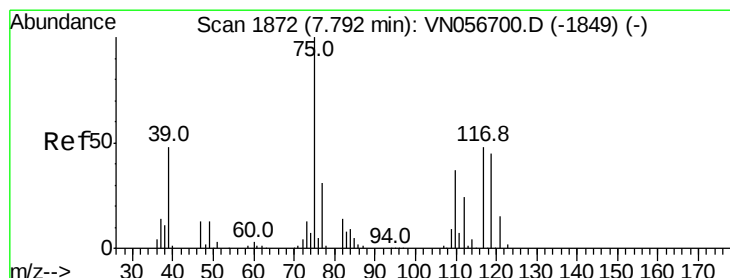
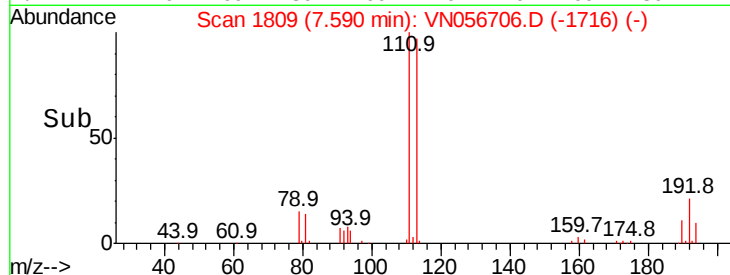
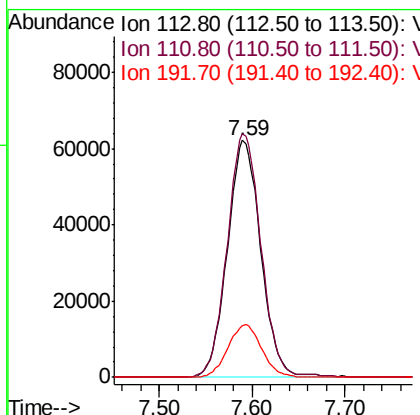
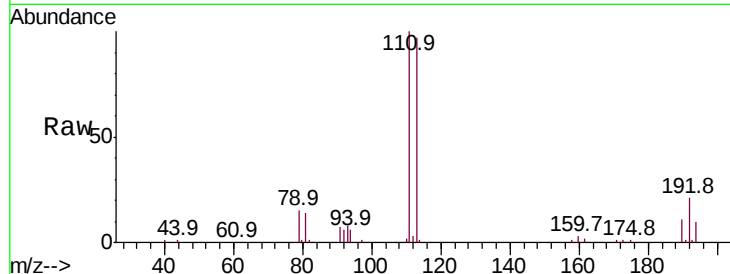
#35
 Dibromofluoromethane
 Concen: 49.236 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN056706.D
 Acq: 15 Jul 2019 12:56

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

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	102.9	81.8	122.6	
192	22.4	17.5	26.3	

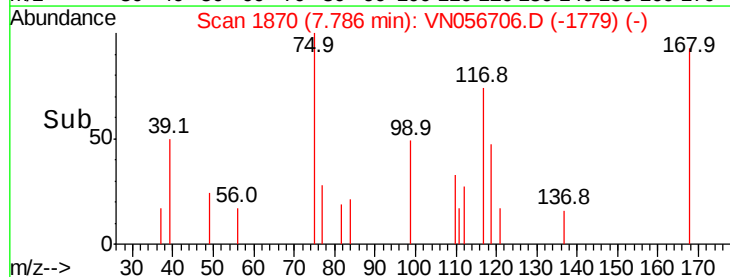
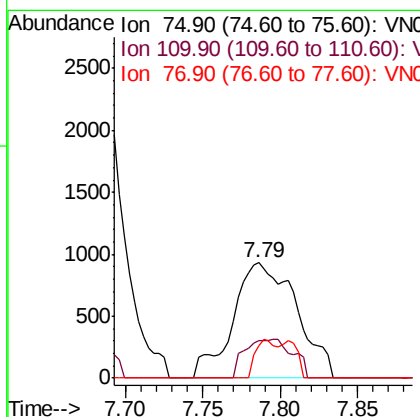
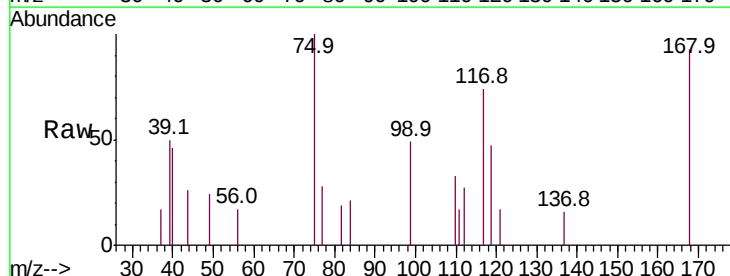
Manual Integrations
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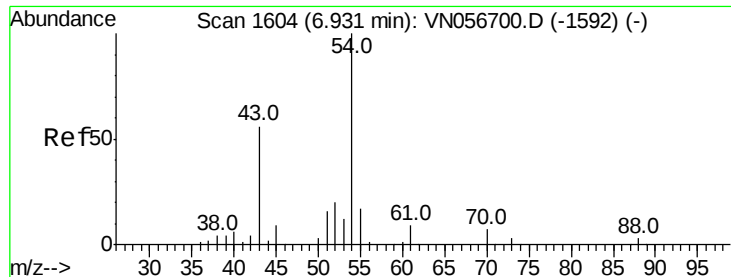
MMDadoda
 7/17/2019 1:31:31 AM



#36
 1,1-Dichloropropene
 Concen: 0.565 ug/l
 RT: 7.79 min Scan# 1870
 Delta R.T. -0.01 min
 Lab File: VN056706.D
 Acq: 15 Jul 2019 12:56

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	25.5	18.4	55.4	
77	11.5	24.6	36.8#	





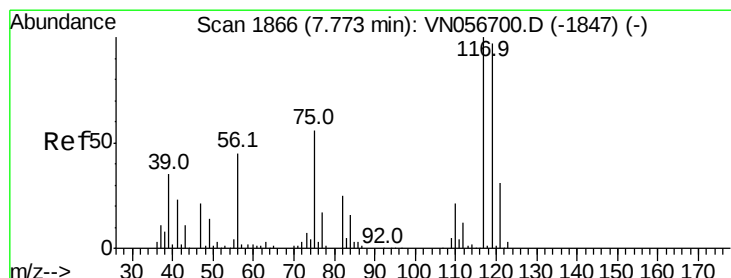
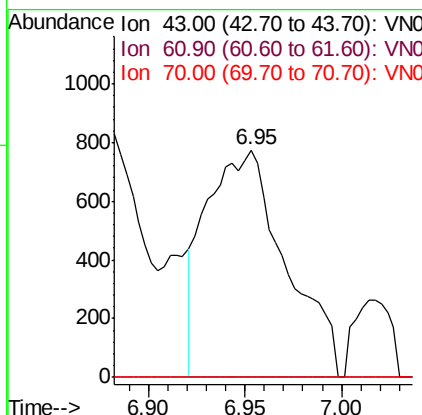
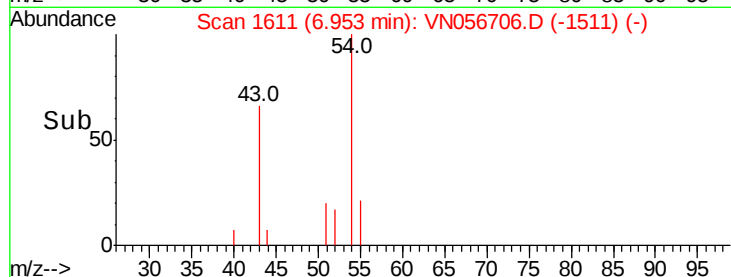
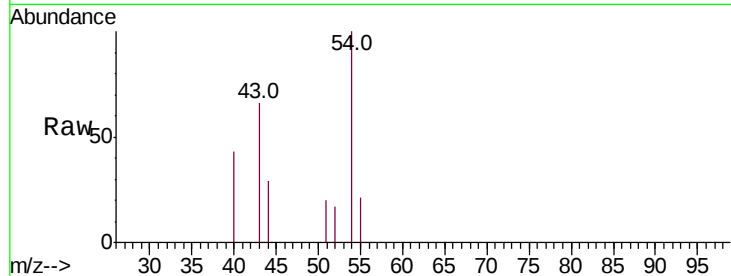
#37
Ethyl Acetate
Concen: 0.476 ug/l
RT: 6.95 min Scan# 1611
Delta R.T. 0.02 min
Lab File: VN056706.D
Acq: 15 Jul 2019 12:56

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

Tot Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.3	16.9#
70	0.0	8.5	12.7#

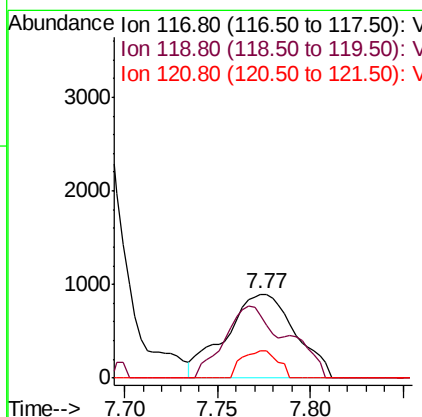
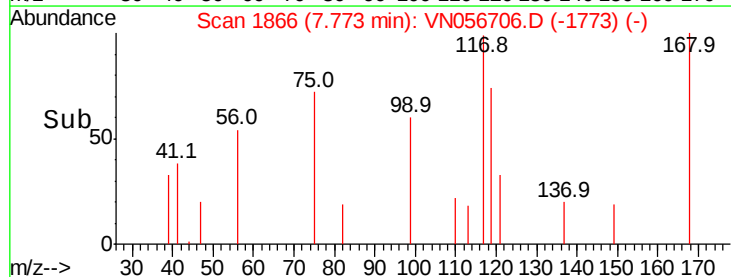
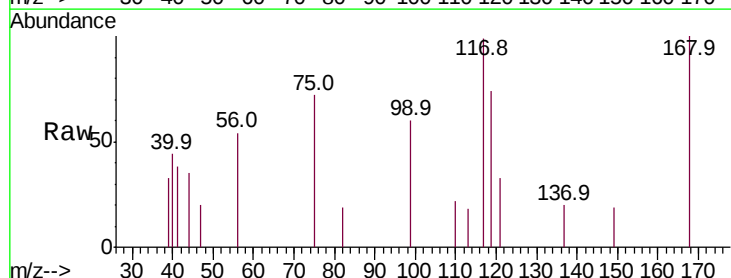
Manual Integrations
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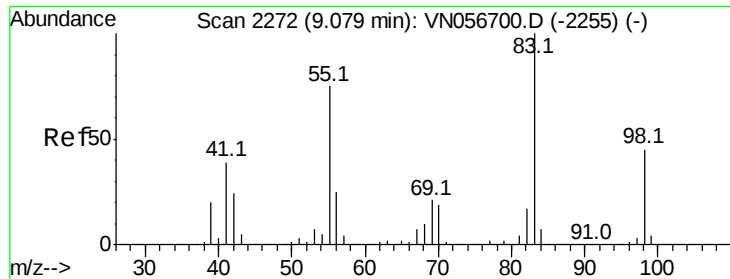
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#38
Carbon Tetrachloride
Concen: 0.528 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. -0.00 min
Lab File: VN056706.D
Acq: 15 Jul 2019 12:56

Tgt Ion	Ratio	Lower	Upper
117	100		
119	75.0	77.5	116.3#
121	32.9	24.7	37.1





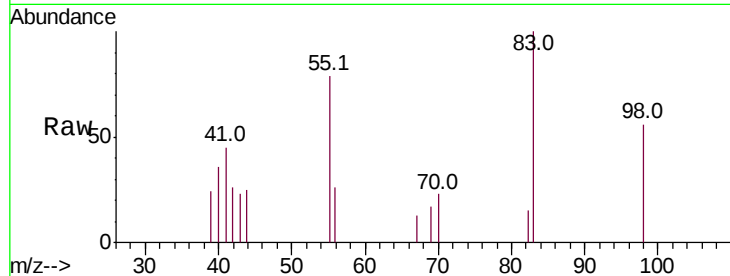
#39
Methvlcvclohexane
Concen: 0.449 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VN056706.D
Acq: 15 Jul 2019 12:56

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

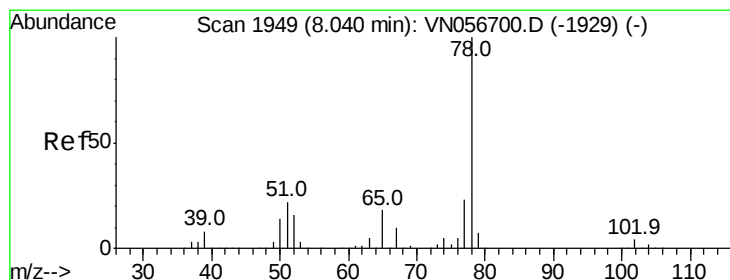
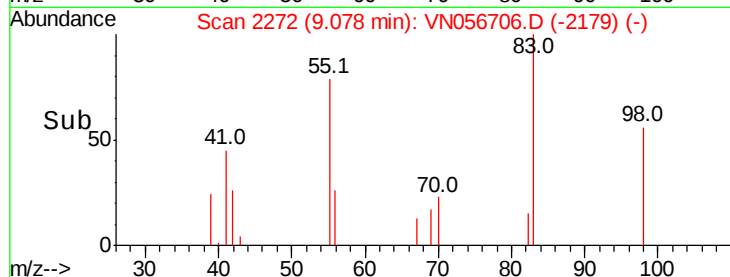
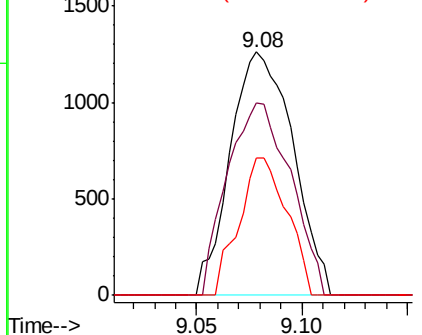
Tot Ion	Ratio	Lower	Upper
83	100		
55	78.9	60.4	90.6
98	56.3	35.8	53.8#

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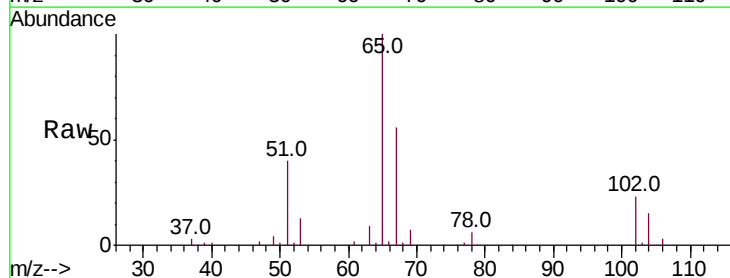


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

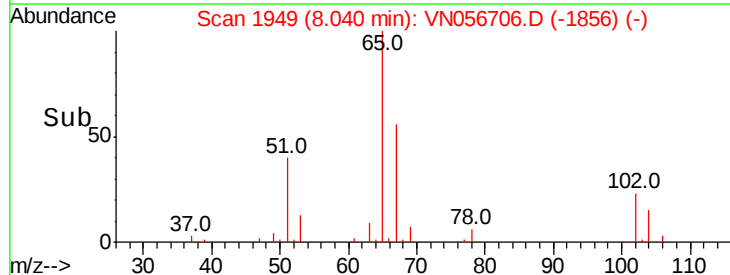
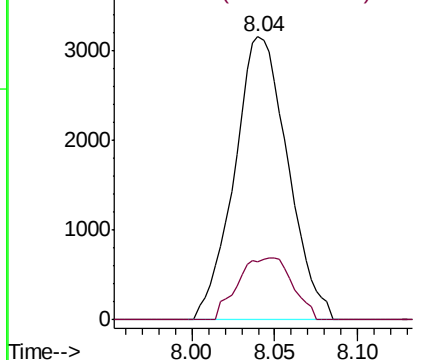


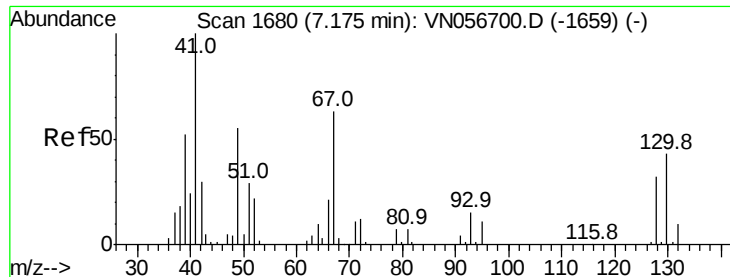
#40
Benzene
Concen: 0.492 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. -0.00 min
Lab File: VN056706.D
Acq: 15 Jul 2019 12:56

Tgt Ion	Ratio	Lower	Upper
78	100		
77	20.7	18.6	27.8



Abundance Ion 78.00 (77.70 to 78.70): VN0
Ion 77.00 (76.70 to 77.70): VN0





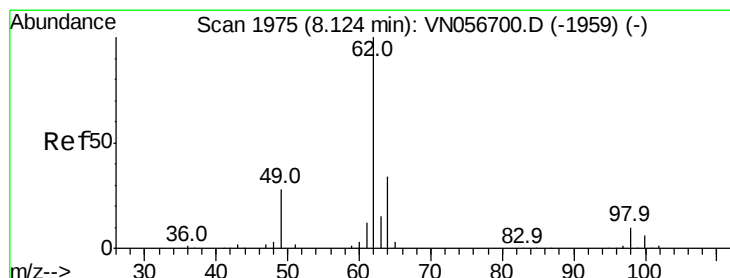
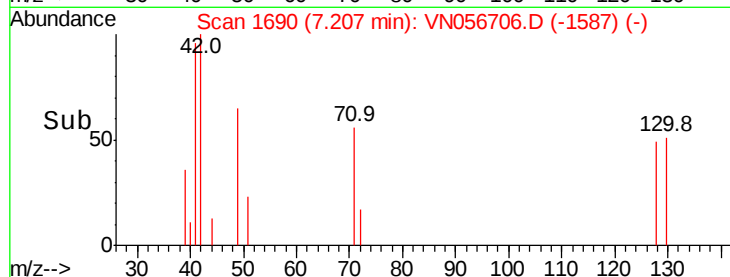
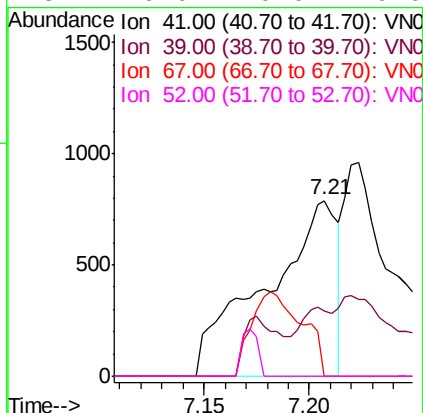
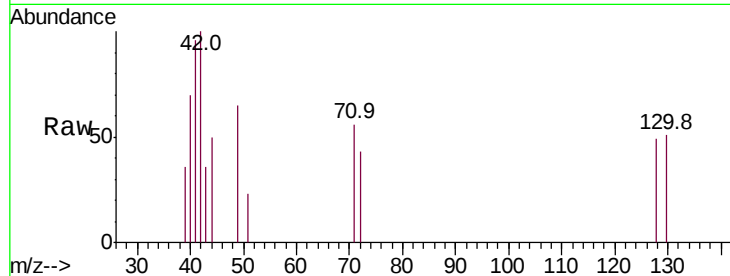
#41
Methacrylonitrile
Concen: 0.907 ug/l
RT: 7.21 min Scan# 1690
Delta R.T. 0.03 min
Lab File: VN056706.D
Acq: 15 Jul 2019 12:56

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

Tot Ion	Ratio	Lower	Upper
41	100		
39	17.2	0.0	0.0#
67	0.0	0.0	0.0
52	0.0	0.0	0.0

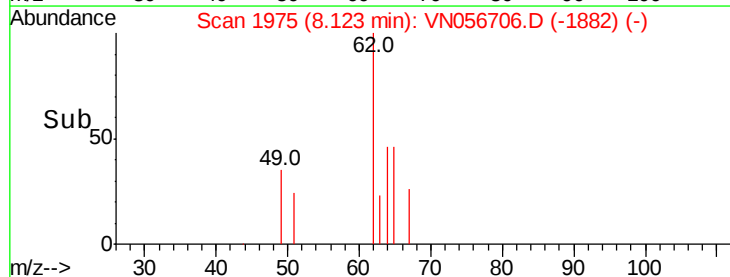
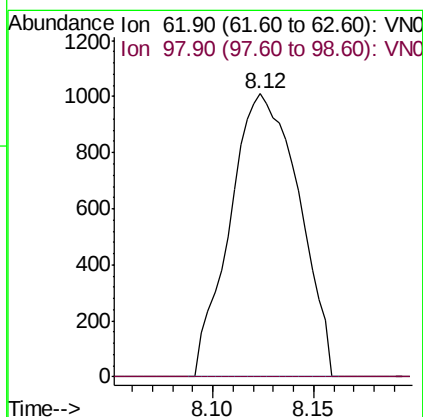
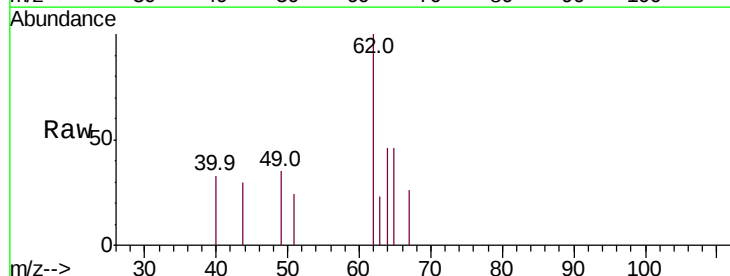
Manual Integrations
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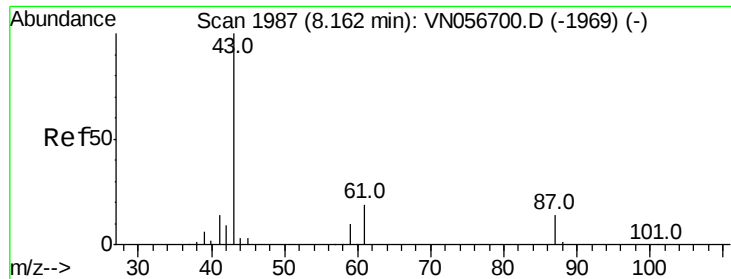
MMDadoda
7/17/2019 1:31:31 AM



#42
1,2-Dichloroethane
Concen: 0.527 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. -0.00 min
Lab File: VN056706.D
Acq: 15 Jul 2019 12:56

Tgt Ion	Ratio	Lower	Upper
62	100		
98	0.0	0.0	19.8





#43

Isopropyl Acetate

Concen: 0.468 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN056706.D

Acq: 15 Jul 2019 12:56

Instrument :

MSVOA_N

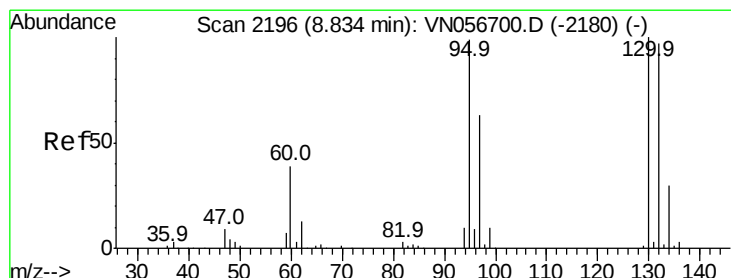
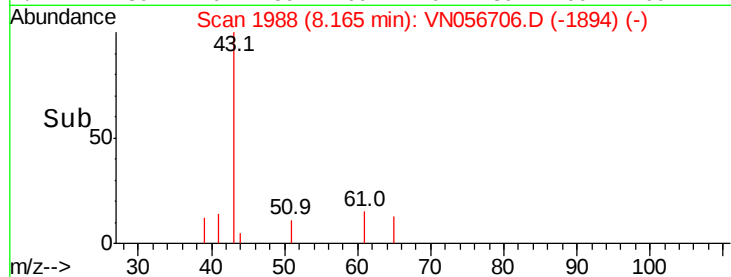
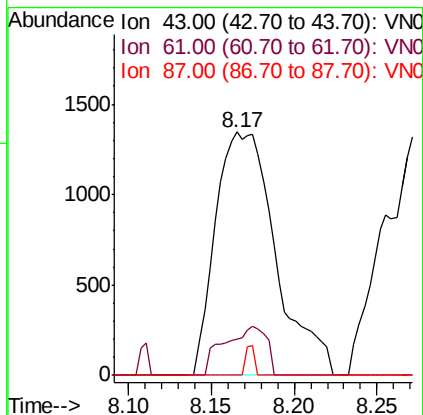
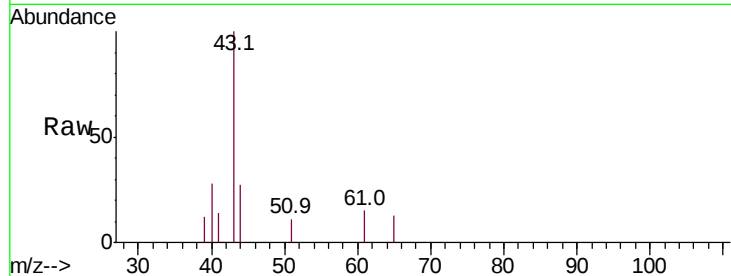
ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion:	43	Resp:	3406
Ion	Ratio	Lower	Upper
43	100		
61	14.2	22.3	33.5#
87	1.8	11.1	16.7#

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#44

Trichloroethene

Concen: 0.492 ug/l

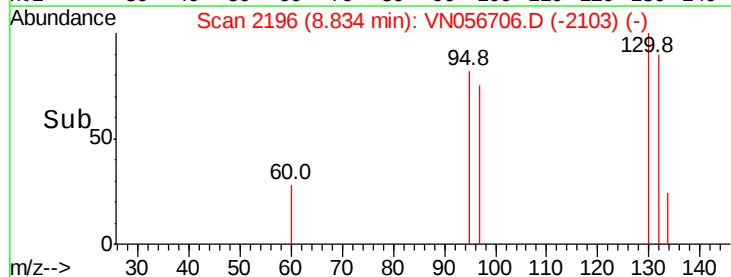
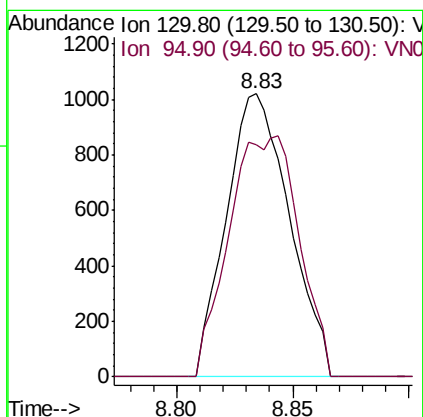
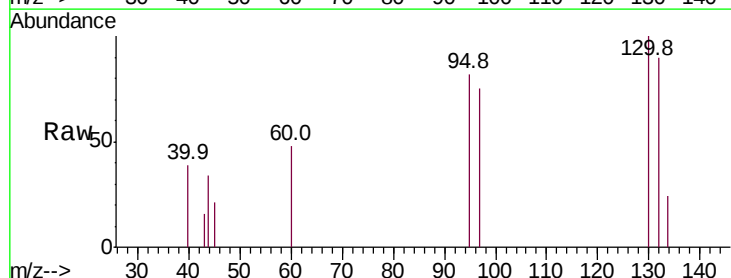
RT: 8.83 min Scan# 2196

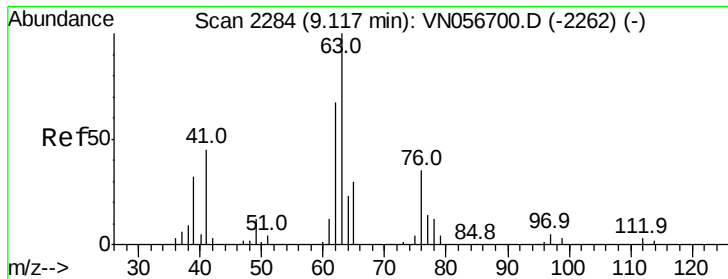
Delta R.T. -0.00 min

Lab File: VN056706.D

Acq: 15 Jul 2019 12:56

Tgt Ion:	130	Resp:	1924
Ion	Ratio	Lower	Upper
130	100		
95	82.1	0.0	197.2





#45

1,2-Dichloropropane

Concen: 0.448 ug/l

RT: 9.12 min Scan# 2285

Delta R.T. 0.00 min

Lab File: VN056706.D

Acq: 15 Jul 2019 12:56

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion: 63 Resp: 1715

Ion Ratio Lower Upper

63 100

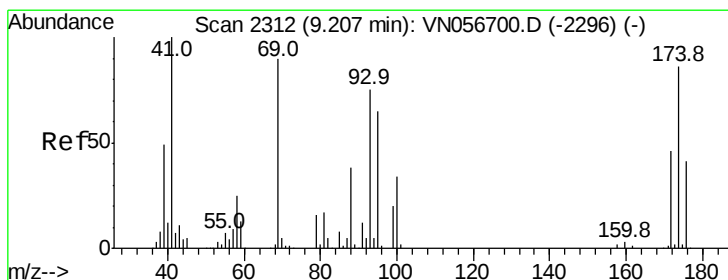
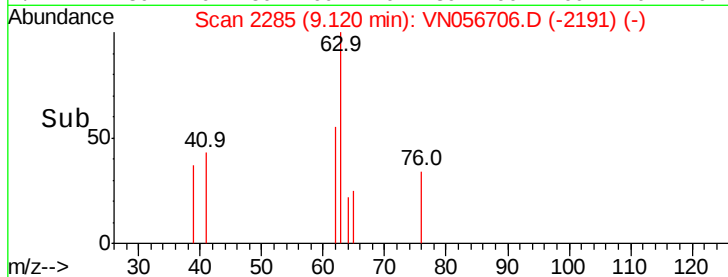
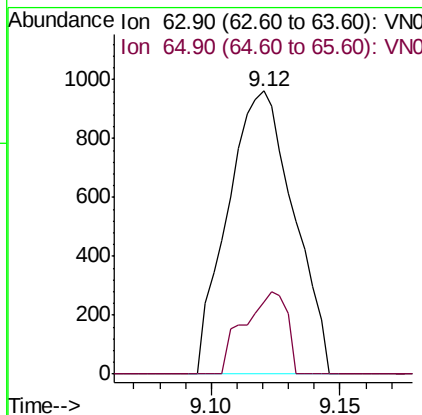
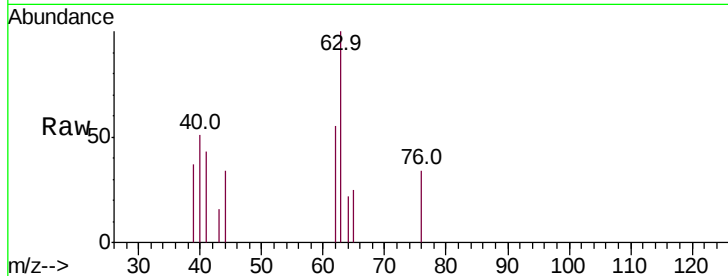
65 25.4 24.0 36.0

Manual Integrations

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#46

Dibromomethane

Concen: 0.505 ug/l

RT: 9.22 min Scan# 2315

Delta R.T. 0.01 min

Lab File: VN056706.D

Acq: 15 Jul 2019 12:56

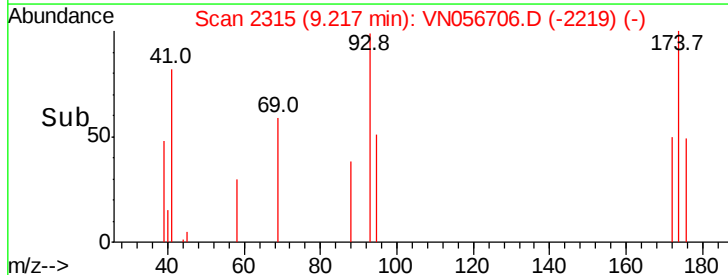
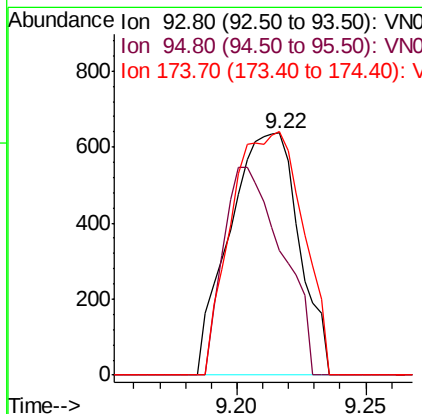
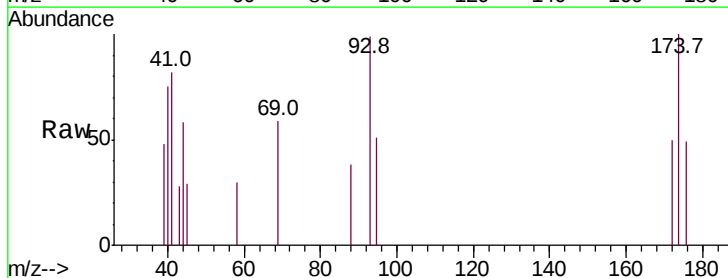
Tgt Ion: 93 Resp: 1198

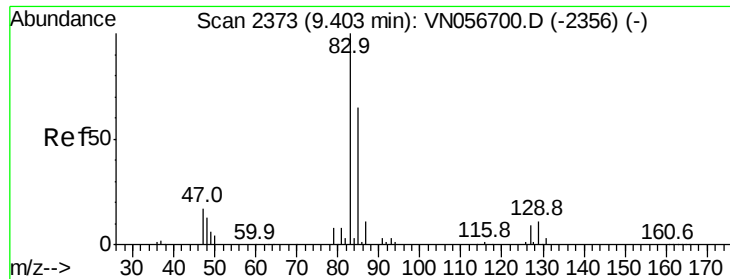
Ion Ratio Lower Upper

93 100

95 72.5 67.4 101.0

174 103.3 90.3 135.5





#47

Bromodichloromethane

Concen: 0.472 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN056706.D

Acq: 15 Jul 2019 12:56

Instrument :

MSVOA_N

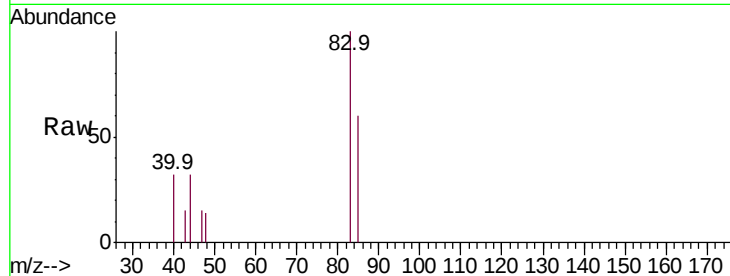
ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

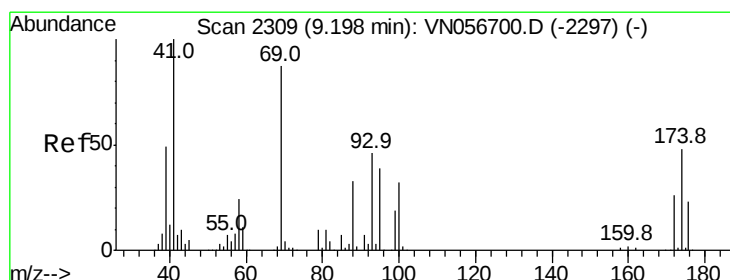
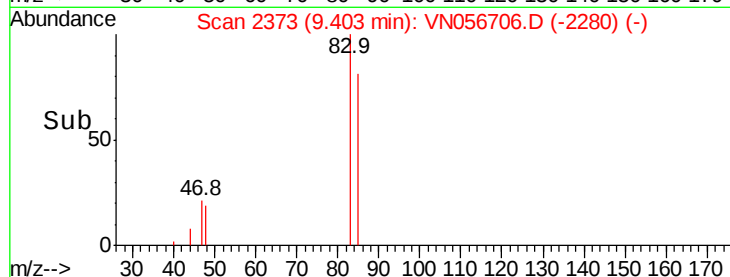
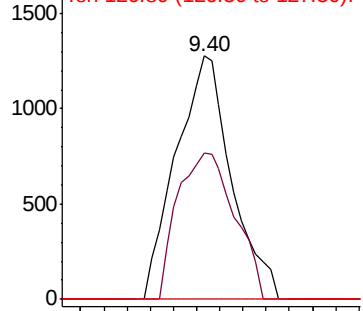
Tot Ion:	83	Resp:	2128
Ion	Ratio	Lower	Upper
83	100		
85	60.3	52.3	78.5
127	0.0	7.6	11.4#

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Abundance Ion 82.90 (82.60 to 83.60): VN056706.D (-2280) (-)



#48

Methyl methacrylate

Concen: 0.469 ug/l

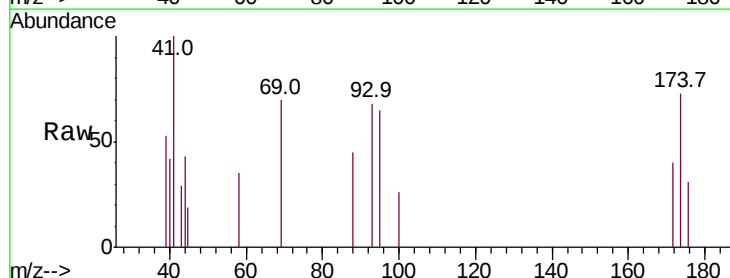
RT: 9.20 min Scan# 2311

Delta R.T. 0.01 min

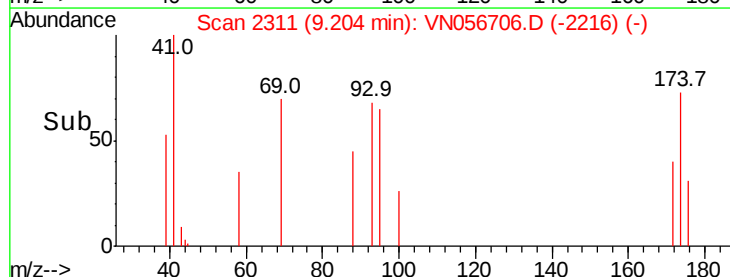
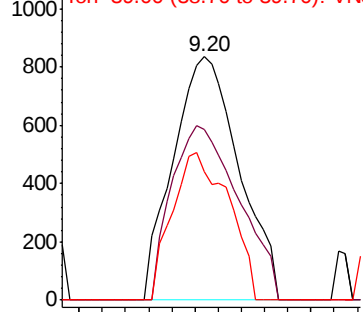
Lab File: VN056706.D

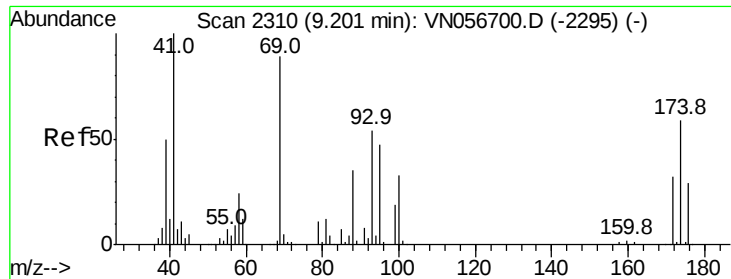
Acq: 15 Jul 2019 12:56

Tgt Ion:	41	Resp:	1654
Ion	Ratio	Lower	Upper
41	100		
69	73.0	71.4	107.0
39	51.9	41.2	61.8



Abundance Ion 41.00 (40.70 to 41.70): VN056706.D (-2216) (-)





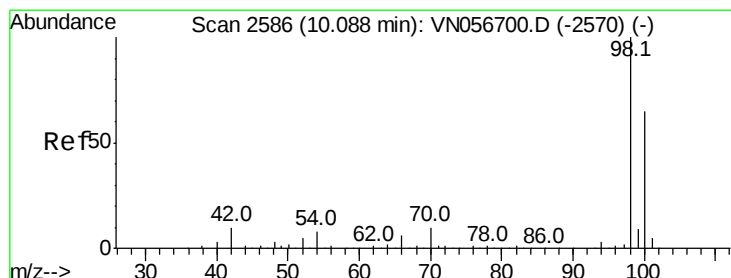
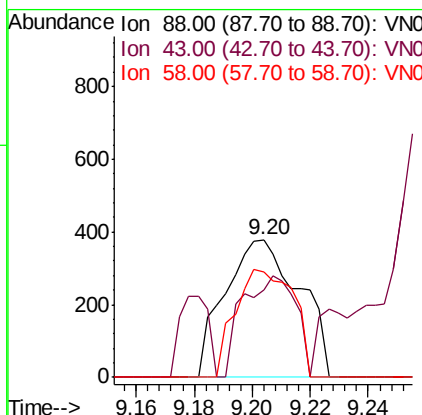
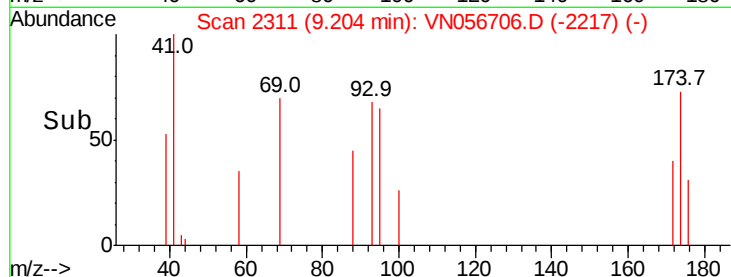
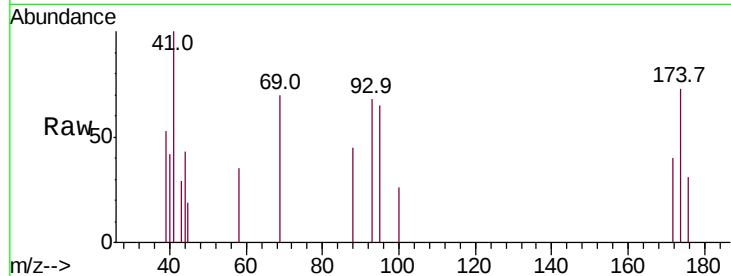
#49
1,4-Dioxane
Concen: 9.365 ug/l
RT: 9.20 min Scan# 2311
Delta R.T. 0.00 min
Lab File: VN056706.D
Acq: 15 Jul 2019 12:56

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

Tot Ion: 88 Resp: 677
Ion Ratio Lower Upper
88 100
43 52.6 23.7 35.5#
58 60.4 55.6 83.4

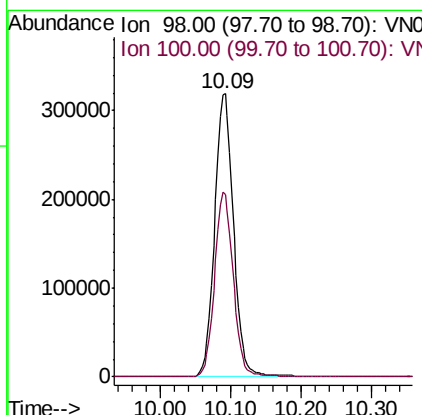
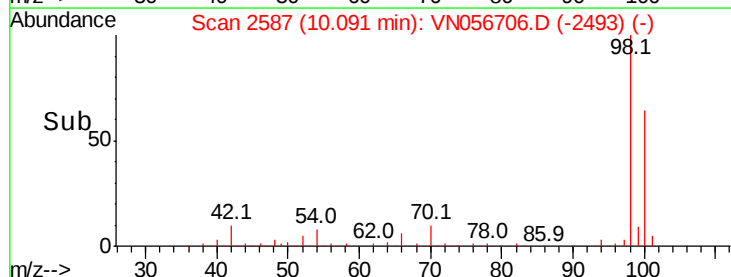
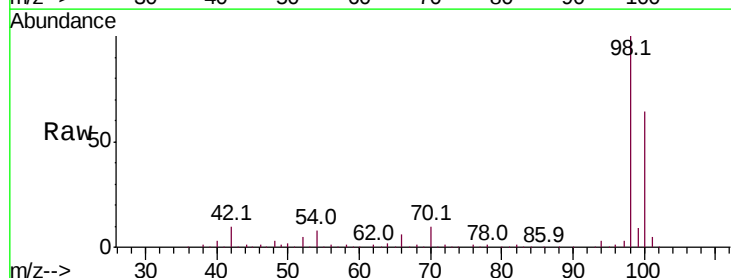
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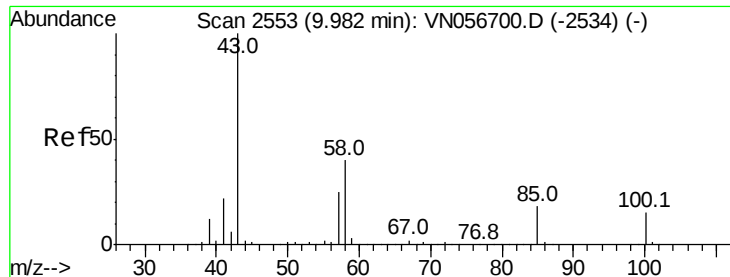
MMDadoda
7/17/2019 1:31:31 AM



#50
Toluene-d8
Concen: 48.477 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN056706.D
Acq: 15 Jul 2019 12:56

Tgt Ion: 98 Resp: 592003
Ion Ratio Lower Upper
98 100
100 64.8 52.0 78.0





#51

4-Methyl-2-Pentanone

Concen: 2.310 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN056706.D

Acq: 15 Jul 2019 12:56

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion: 43 Resp: 10899

Ion Ratio Lower Upper

43 100

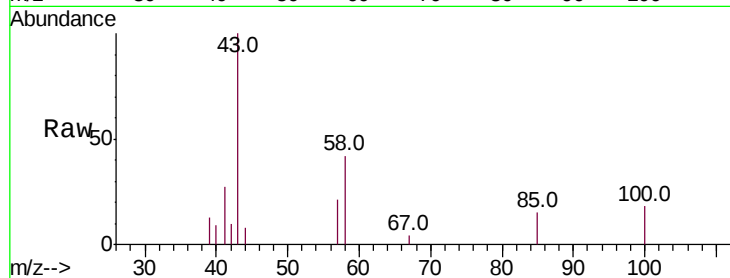
58 37.6 32.0 48.0

Manual Integrations

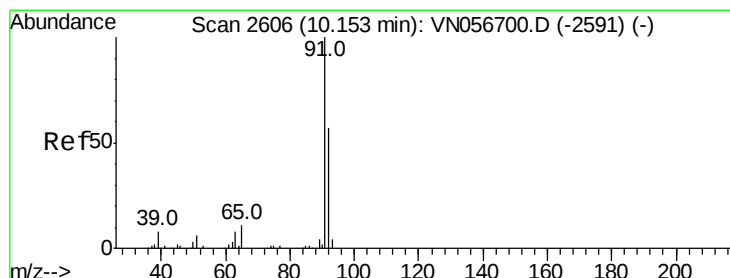
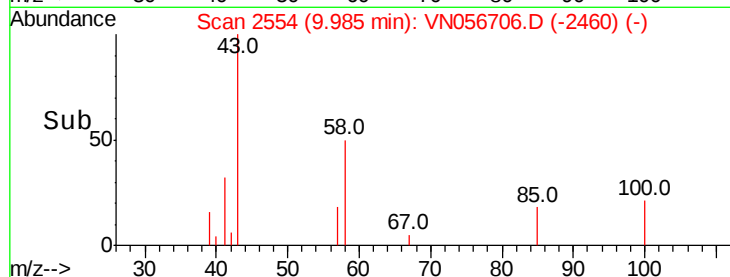
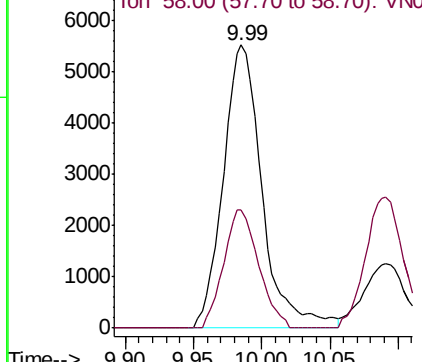
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Abundance Ion 43.00 (42.70 to 43.70): VN056706.D (-2534) (-)



#52

Toluene

Concen: 0.507 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN056706.D

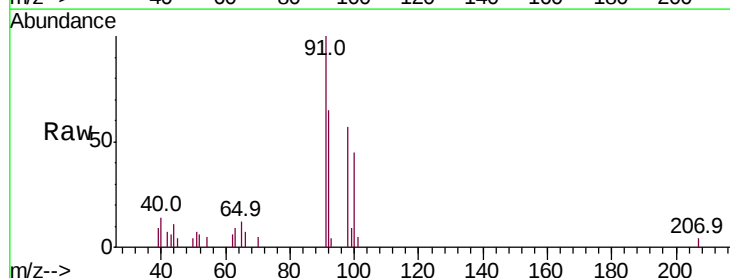
Acq: 15 Jul 2019 12:56

Tgt Ion: 92 Resp: 4341

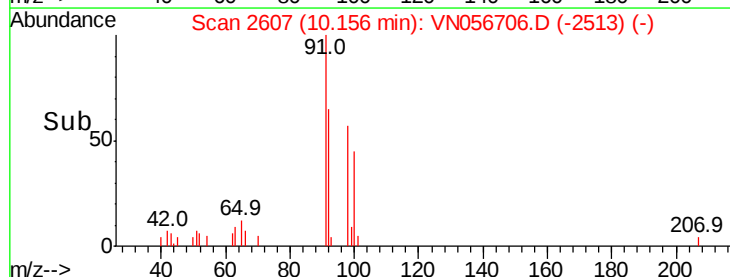
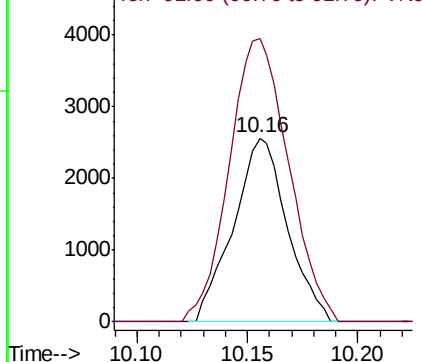
Ion Ratio Lower Upper

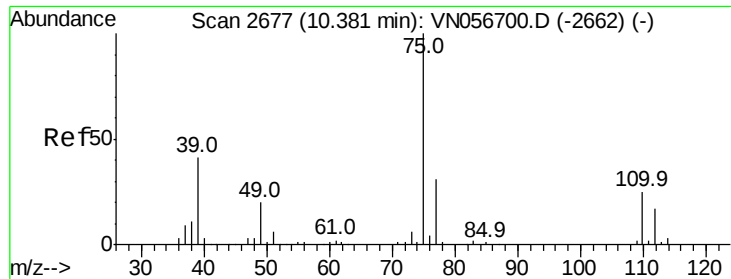
92 100

91 170.0 139.9 209.9



Abundance Ion 92.00 (91.70 to 92.70): VN056706.D (-2513) (-)





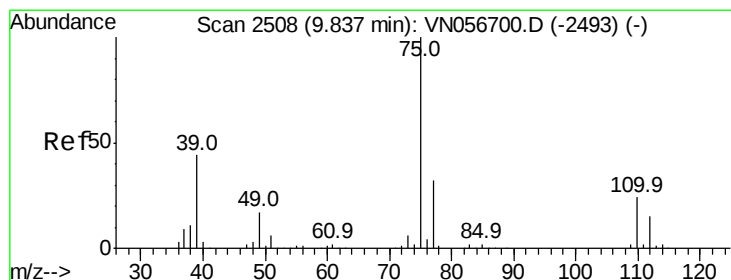
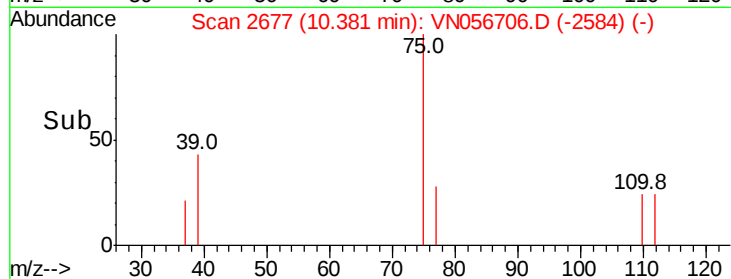
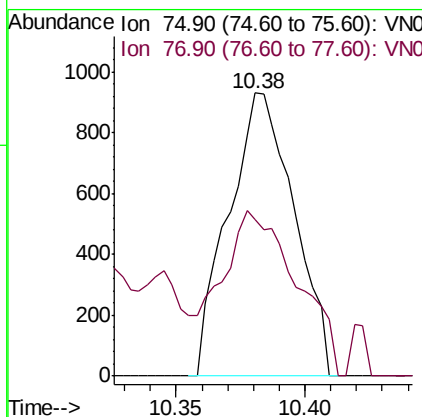
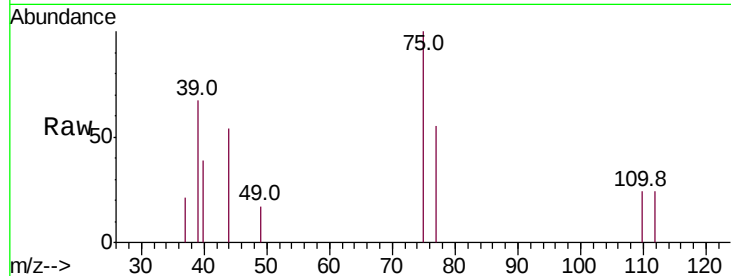
#53
t-1,3-Dichloropropene
Concen: 0.351 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. -0.00 min
Lab File: VN056706.D
Acq: 15 Jul 2019 12:56

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

Tot Ion: 75 Resp: 1650
Ion Ratio Lower Upper
75 100
77 55.3 25.0 37.6#

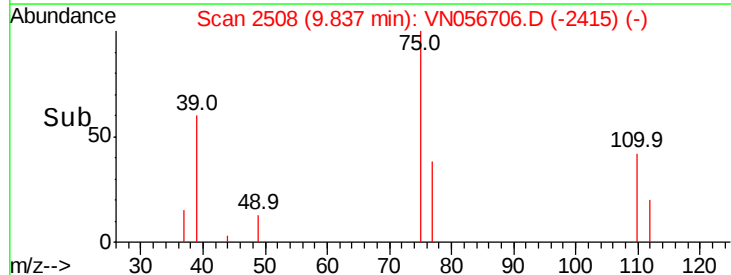
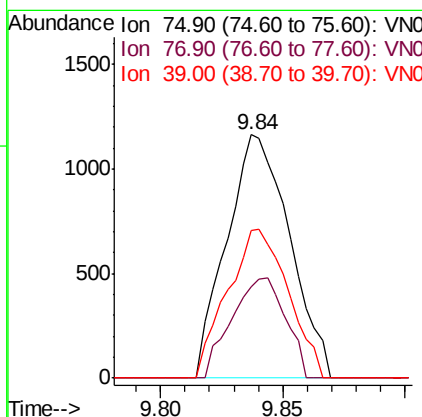
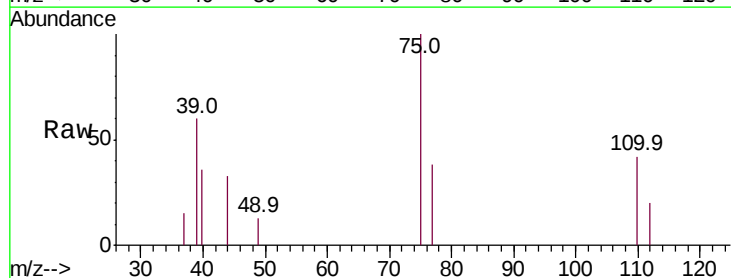
Manual Integrations
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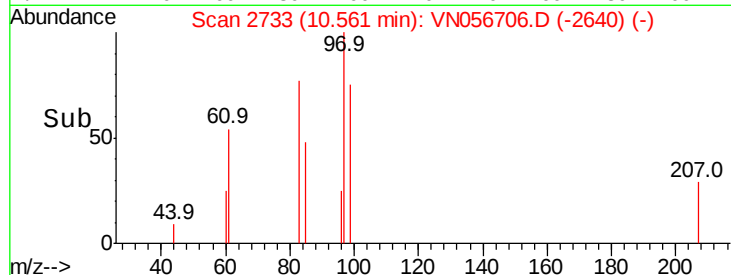
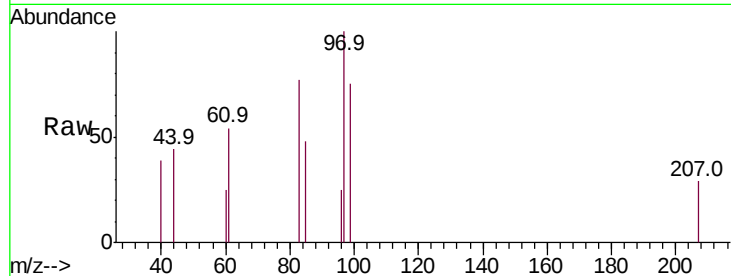
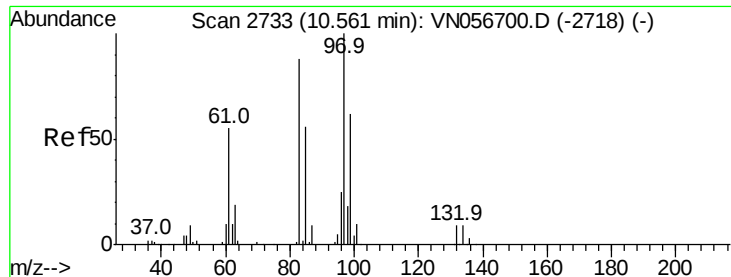
MMDadoda
7/17/2019 1:31:31 AM



#54
cis-1,3-Dichloropropene
Concen: 0.381 ug/l
RT: 9.84 min Scan# 2508
Delta R.T. -0.00 min
Lab File: VN056706.D
Acq: 15 Jul 2019 12:56

Tgt Ion: 75 Resp: 2081
Ion Ratio Lower Upper
75 100
77 37.7 26.0 39.0
39 60.4 35.1 52.7#





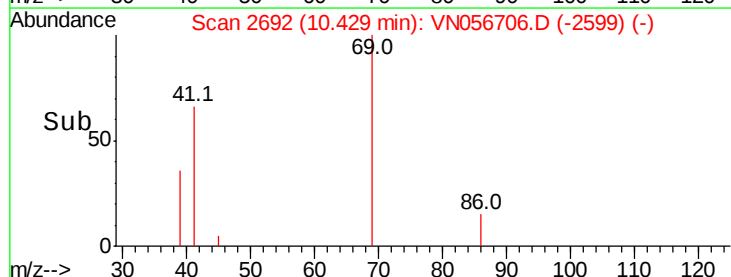
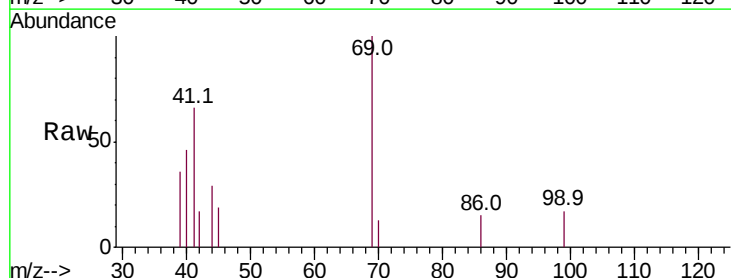
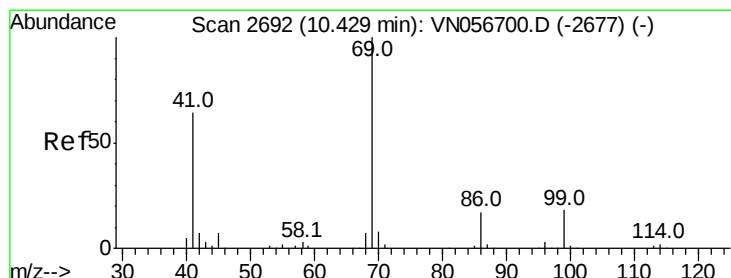
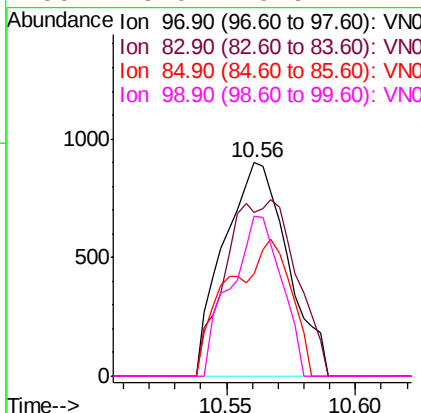
#55
1,1,2-Trichloroethane
Concen: 0.433 ug/l
RT: 10.56 min Scan# 2733
Delta R.T. -0.00 min
Lab File: VN056706.D
Acq: 15 Jul 2019 12:56

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

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	76.8	70.3	105.5	
85	48.0	44.8	67.2	
99	75.0	49.6	74.4	

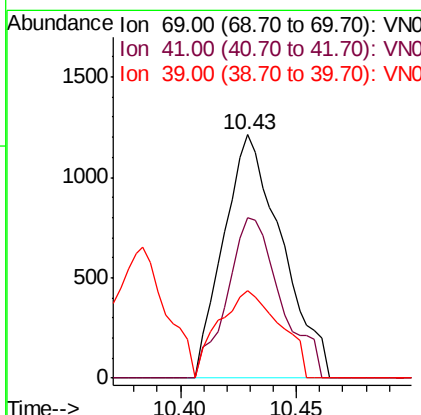
Manual Integrations
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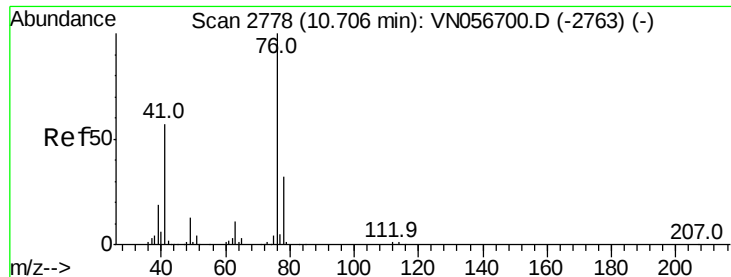
MMDadoda
7/17/2019 1:31:31 AM



#56
Ethyl methacrylate
Concen: 0.409 ug/l
RT: 10.43 min Scan# 2692
Delta R.T. -0.00 min
Lab File: VN056706.D
Acq: 15 Jul 2019 12:56

Tgt Ion	Ion	Ratio	Lower	Upper
69	100			
41	60.6	51.0	76.4	
39	37.9	24.6	36.8	





#57

1,3-Dichloropropane

Concen: 0.477 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN056706.D

Acq: 15 Jul 2019 12:56

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion: 76 Resp: 2793

Ion Ratio Lower Upper

76 100

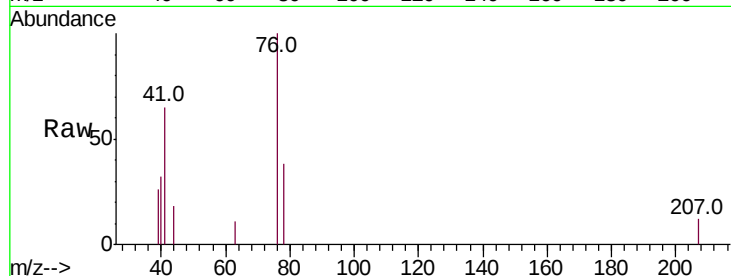
78 37.1 26.0 39.0

Manual Integrations

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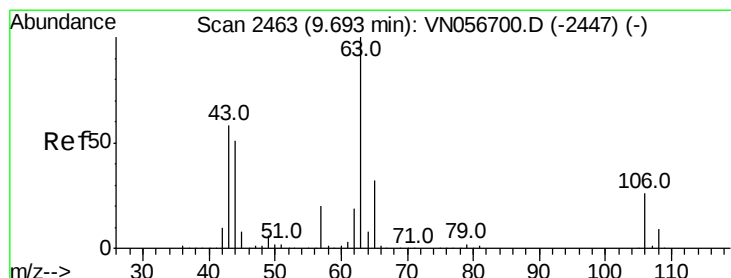
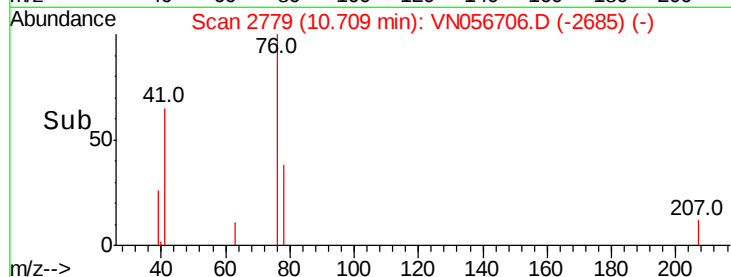
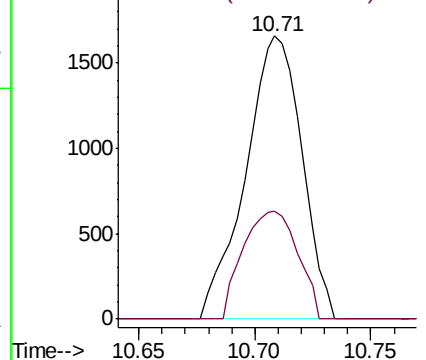
MMDadoda

7/17/2019 1:31:31 AM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 2.041 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN056706.D

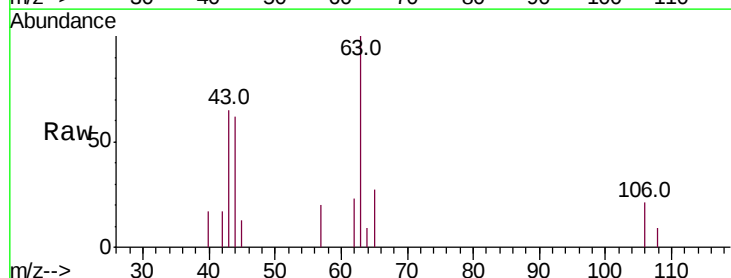
Acq: 15 Jul 2019 12:56

Tgt Ion: 63 Resp: 5068

Ion Ratio Lower Upper

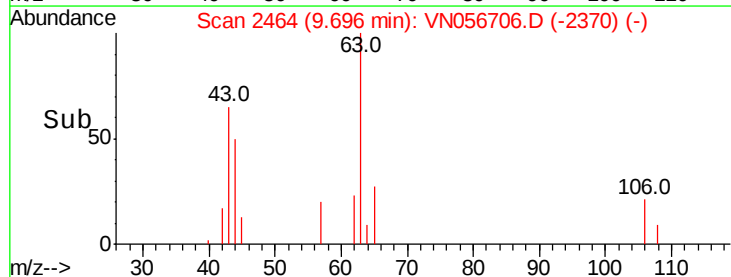
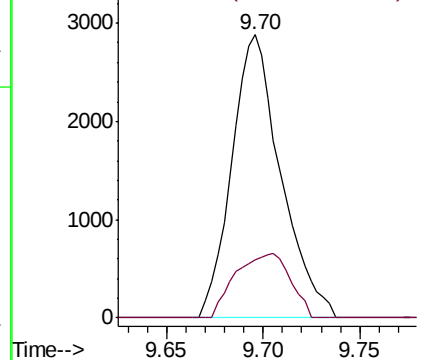
63 100

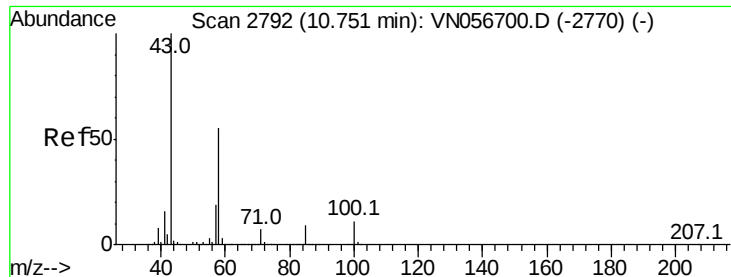
106 25.5 21.2 31.8



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V





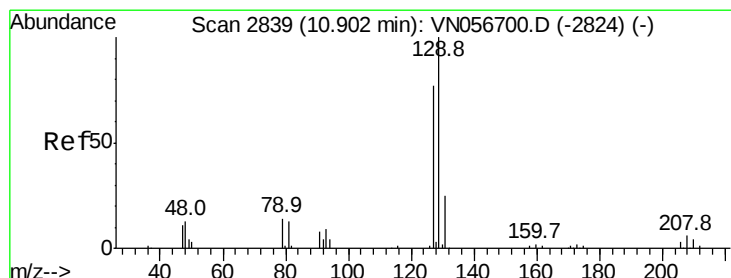
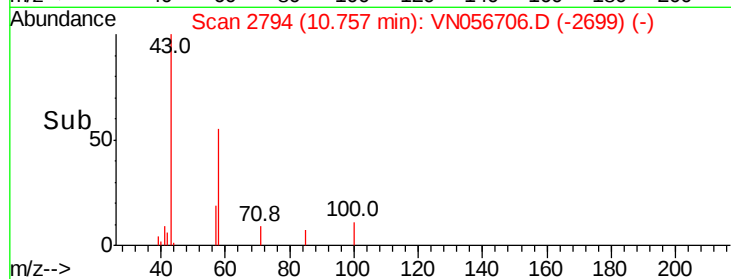
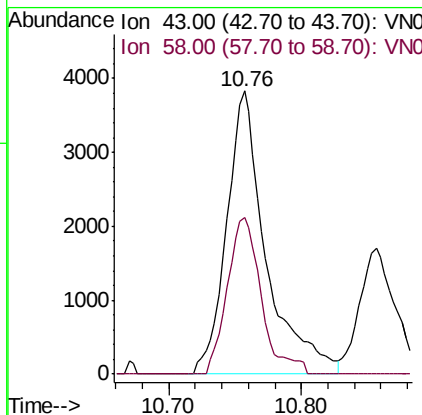
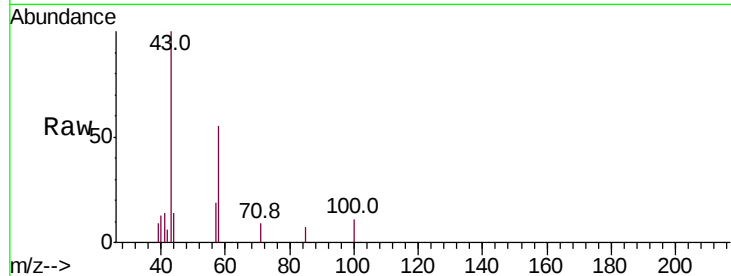
#59
2-Hexanone
Concen: 2.338 ug/l
RT: 10.76 min Scan# 2794
Delta R.T. 0.01 min
Lab File: VN056706.D
Acq: 15 Jul 2019 12:56

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

Tot Ion: 43 Resp: 7917
Ion Ratio Lower Upper
43 100
58 47.7 27.9 83.6

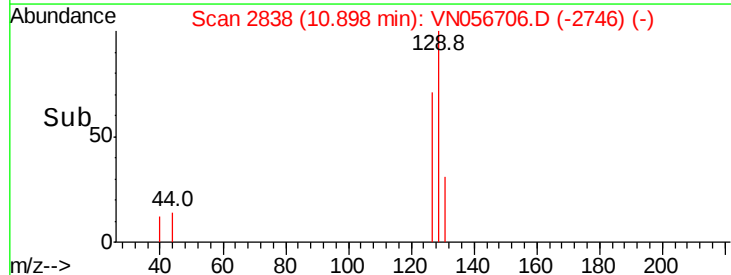
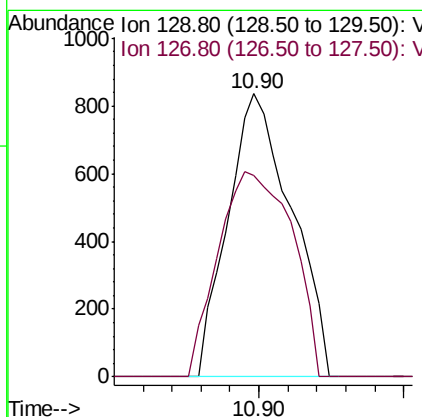
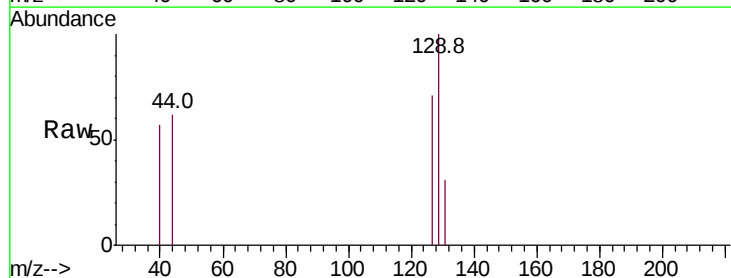
Manual Integrations
APPROVED

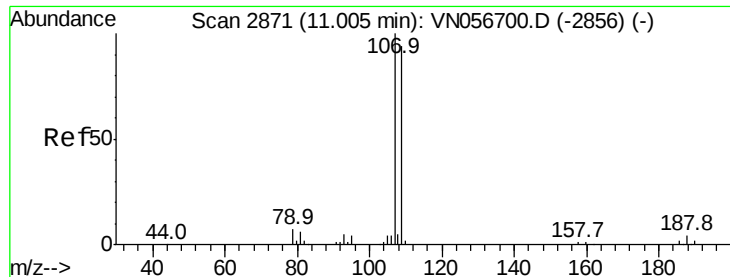
MMDadoda
7/17/2019 1:31:31 AM



#60
Dibromochloromethane
Concen: 0.361 ug/l
RT: 10.90 min Scan# 2838
Delta R.T. -0.00 min
Lab File: VN056706.D
Acq: 15 Jul 2019 12:56

Tgt Ion: 129 Resp: 1273
Ion Ratio Lower Upper
129 100
127 84.4 38.2 114.6





#61

1,2-Dibromoethane

Concen: 0.449 ug/l

RT: 11.00 min Scan# 2871

Delta R.T. -0.00 min

Lab File: VN056706.D

Acq: 15 Jul 2019 12:56

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion:107 Resp: 1603

Ion Ratio Lower Upper

107 100

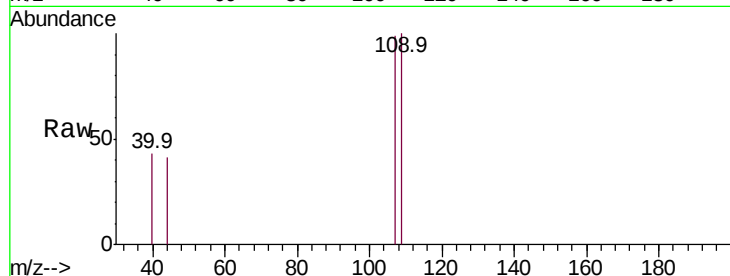
109 92.8 76.2 114.4

Manual Integrations

APPROVED

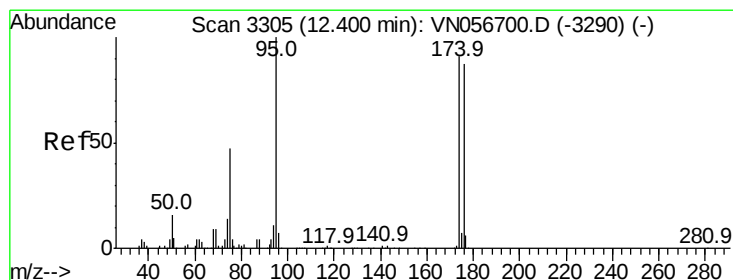
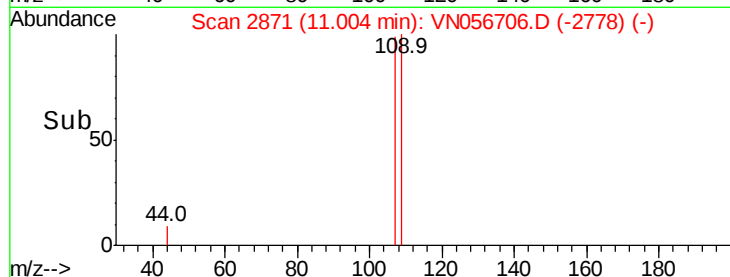
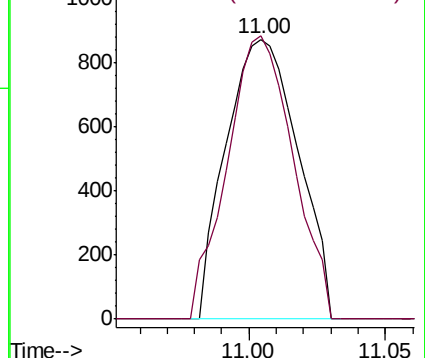
MMDadoda

7/17/2019 1:31:31 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 41.294 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN056706.D

Acq: 15 Jul 2019 12:56

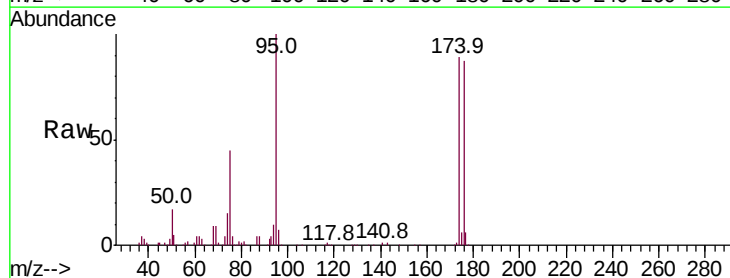
Tgt Ion: 95 Resp: 170062

Ion Ratio Lower Upper

95 100

174 88.2 0.0 180.0

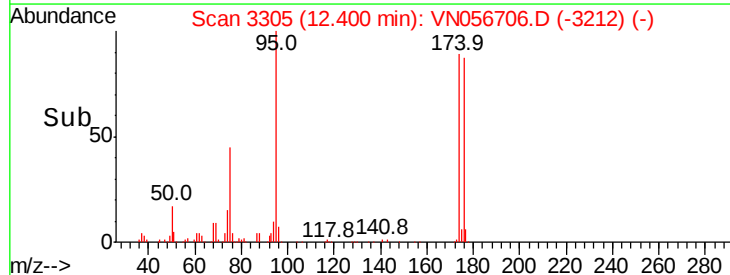
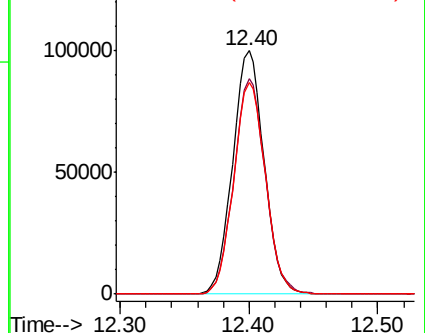
176 87.3 0.0 173.2

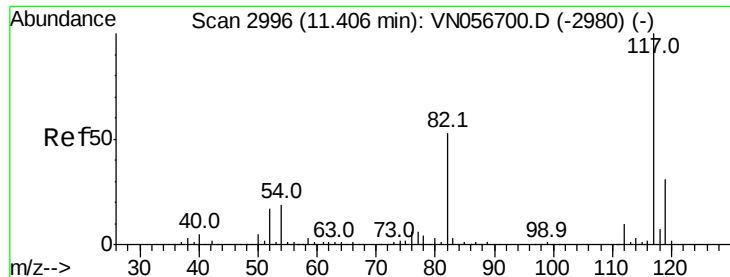


Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





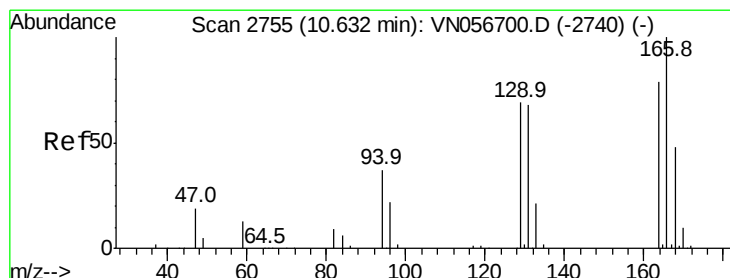
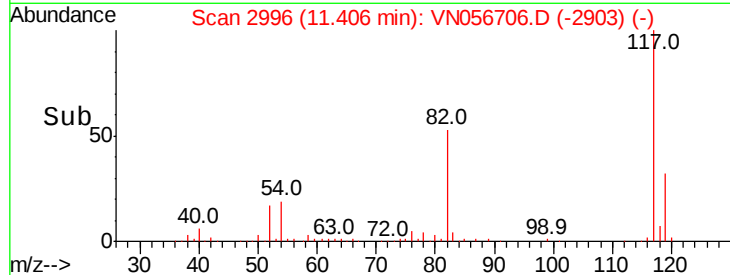
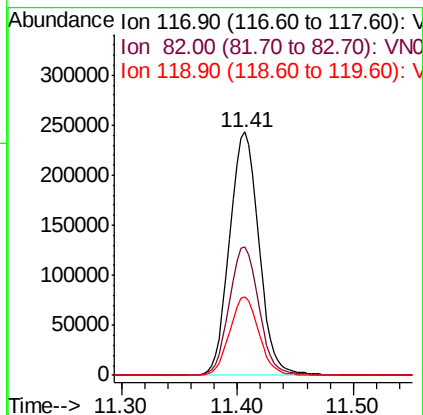
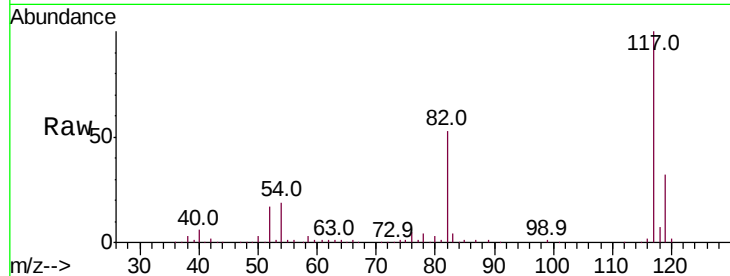
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN056706.D
Acq: 15 Jul 2019 12:56

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

Tot Ion:117 Resp: 425274
Ion Ratio Lower Upper
117 100
82 52.5 42.2 63.2
119 32.4 25.2 37.8

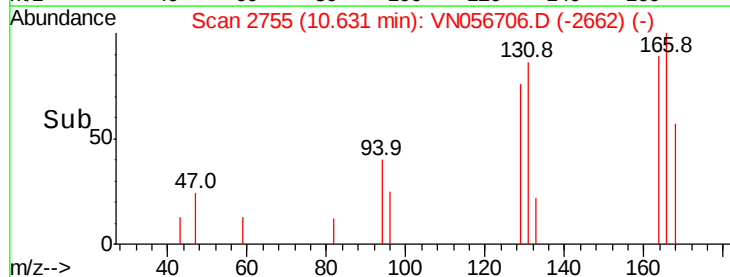
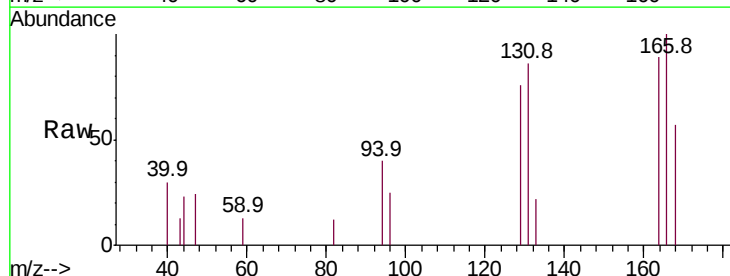
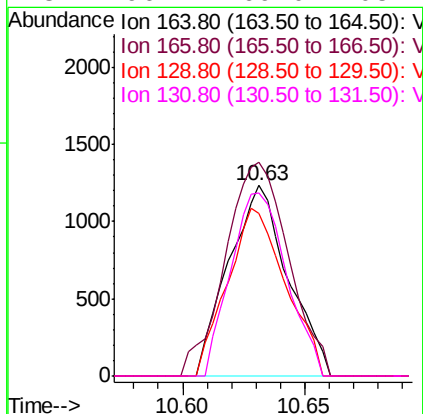
Manual Integrations
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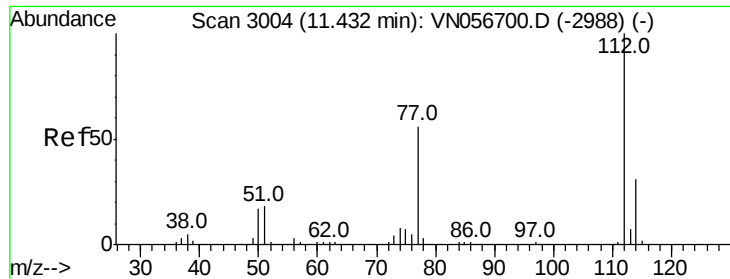
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7/17/2019 1:31:31 AM



#64
Tetrachloroethene
Concen: 0.567 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN056706.D
Acq: 15 Jul 2019 12:56

Tgt Ion:164 Resp: 2080
Ion Ratio Lower Upper
164 100
166 112.3 101.4 152.2
129 85.4 69.6 104.4
131 96.2 69.0 103.4





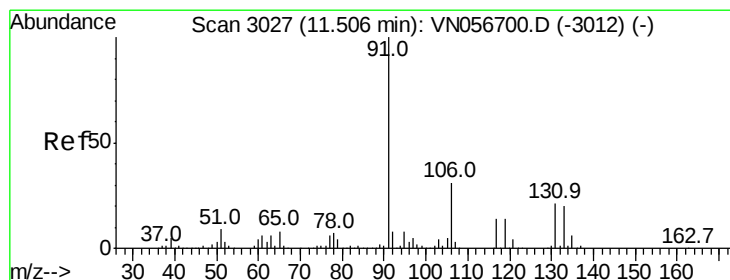
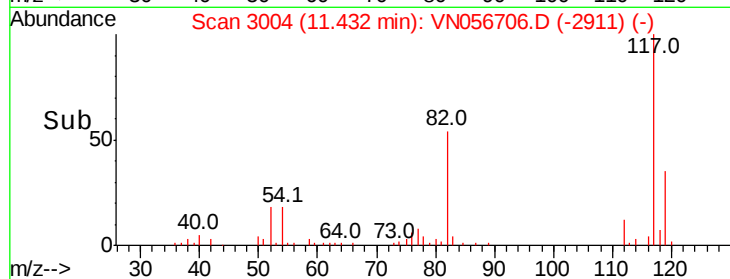
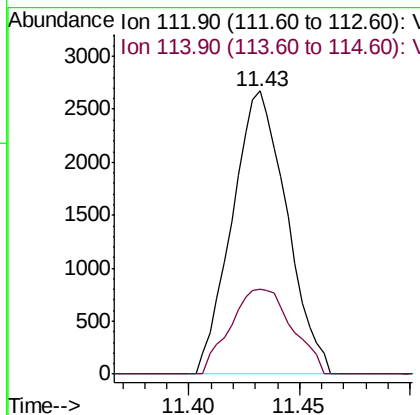
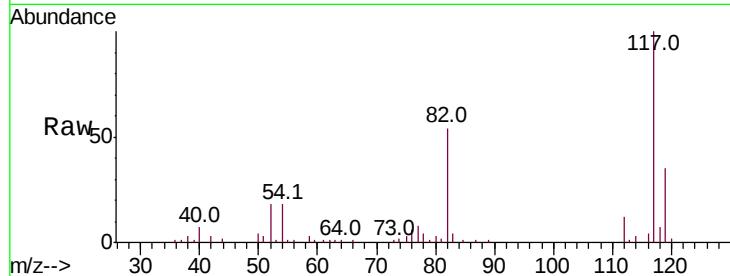
#65
Chlorobenzene
Concen: 0.528 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN056706.D
Acq: 15 Jul 2019 12:56

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

Tot Ion:112 Resp: 4595
Ion Ratio Lower Upper
112 100
114 29.8 25.2 37.8

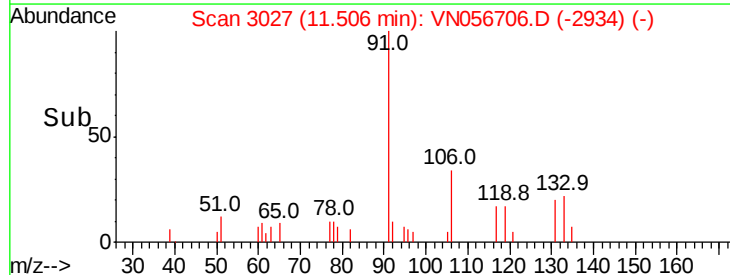
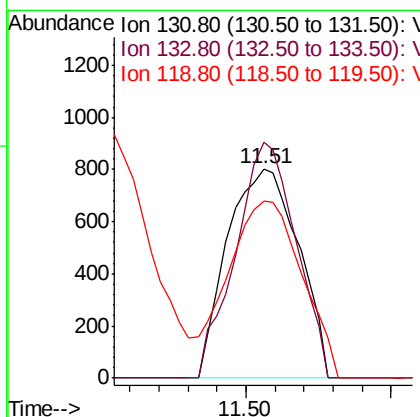
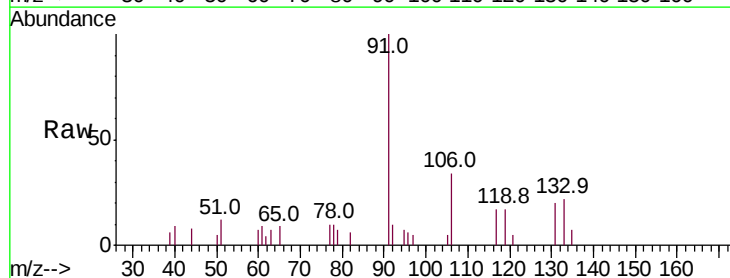
Manual Integrations
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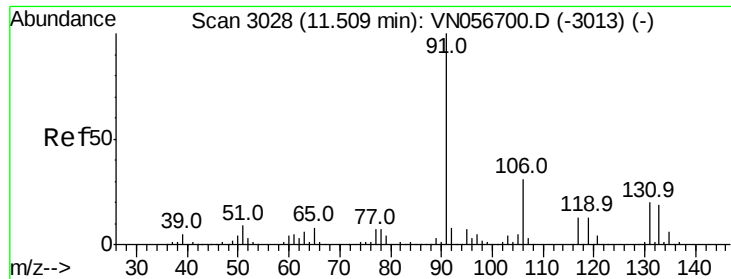
MMDadoda
7/17/2019 1:31:31 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 0.427 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. -0.00 min
Lab File: VN056706.D
Acq: 15 Jul 2019 12:56

Tgt Ion:131 Resp: 1366
Ion Ratio Lower Upper
131 100
133 96.0 46.9 140.7
119 0.0 32.8 98.3#





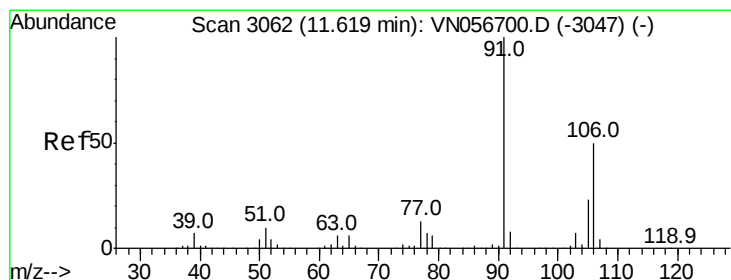
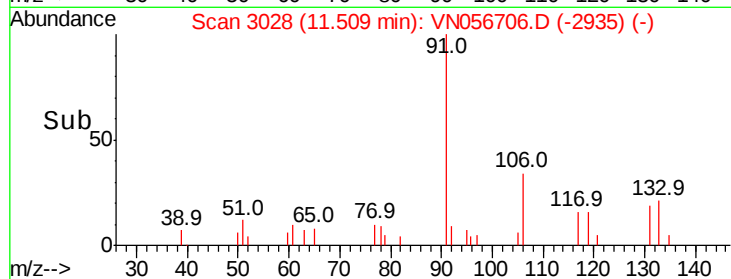
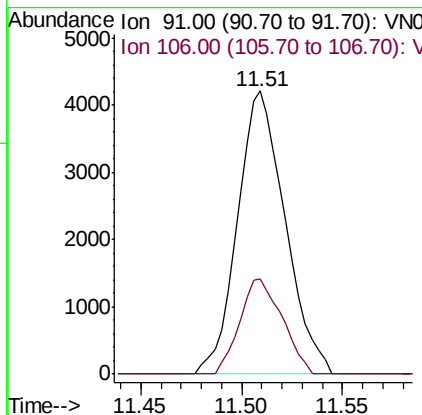
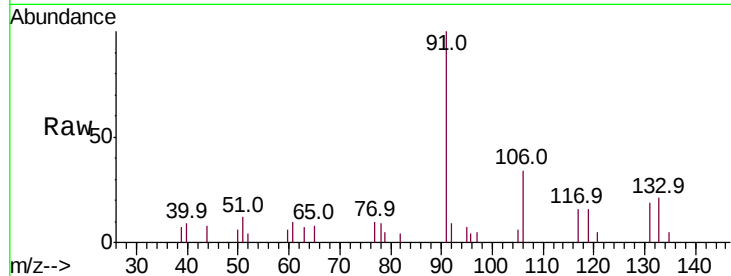
#67
Ethyl Benzene
Concen: 0.455 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN056706.D
Acq: 15 Jul 2019 12:56

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

Tot Ion: 91 Resp: 6958
Ion Ratio Lower Upper
91 100
106 33.6 24.8 37.2

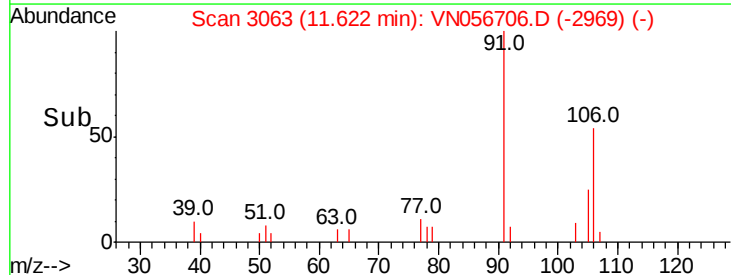
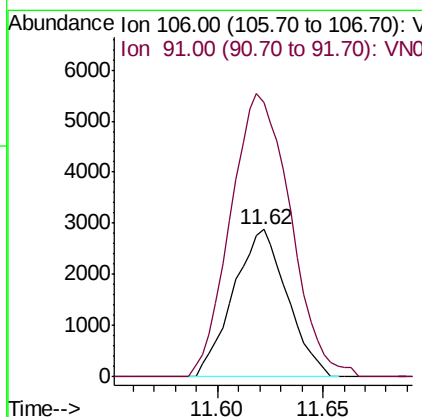
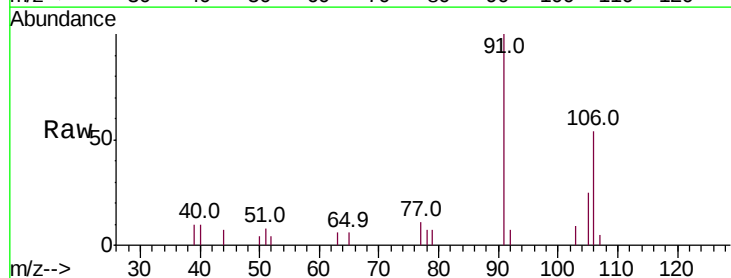
Manual Integrations
APPROVED

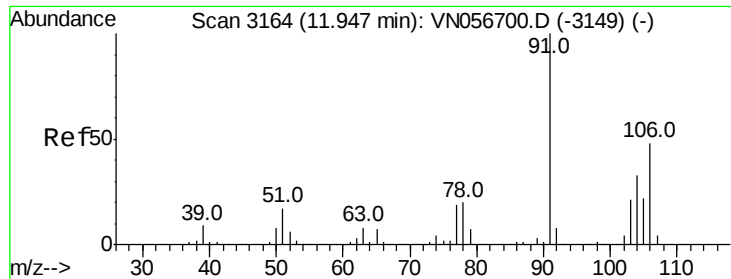
MMDadoda
7/17/2019 1:31:31 AM



#68
m/p-Xylenes
Concen: 0.897 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN056706.D
Acq: 15 Jul 2019 12:56

Tgt Ion: 106 Resp: 5124
Ion Ratio Lower Upper
106 100
91 213.5 160.5 240.7





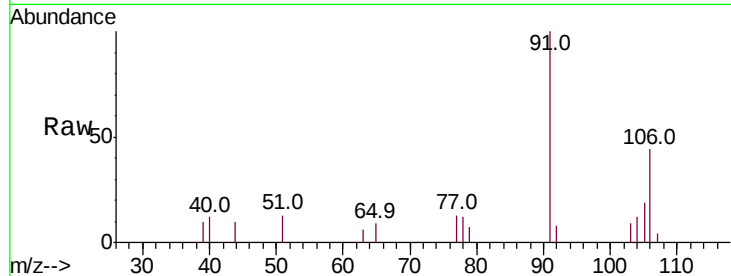
#69
o-Xylene
Concen: 0.461 ug/l
RT: 11.94 min Scan# 3163
Delta R.T. -0.00 min
Lab File: VN056706.D
Acq: 15 Jul 2019 12:56

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

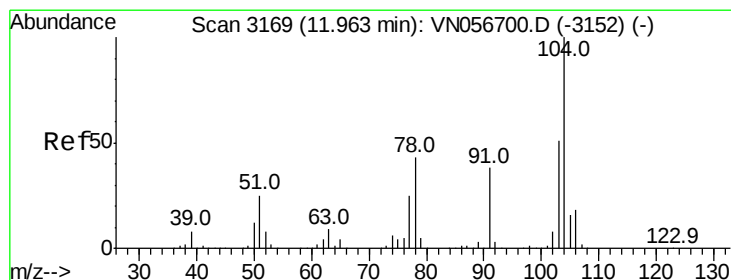
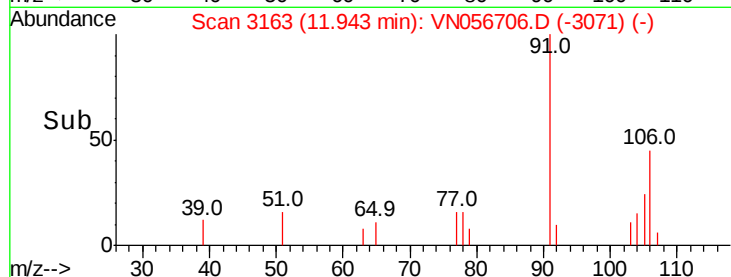
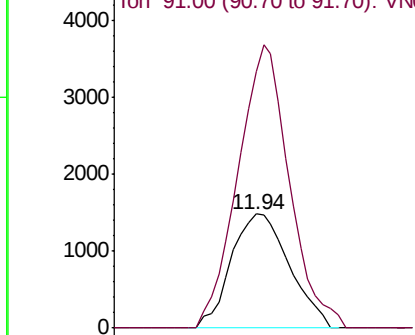
Tot Ion:106 Resp: 2589
Ion Ratio Lower Upper
106 100
91 219.0 105.6 316.8

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

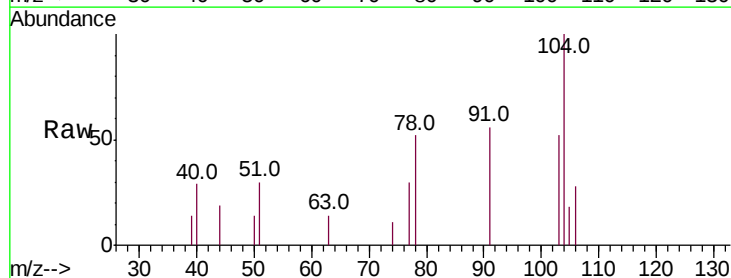


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN

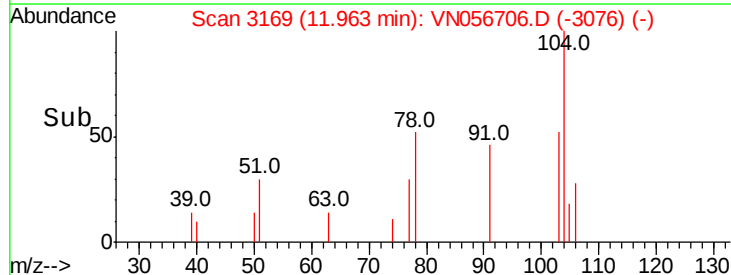
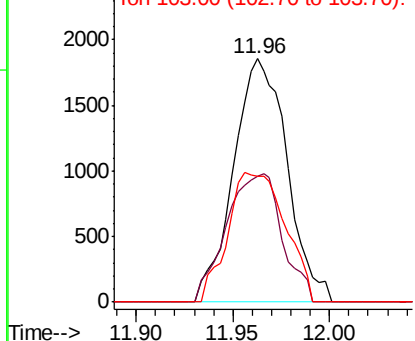


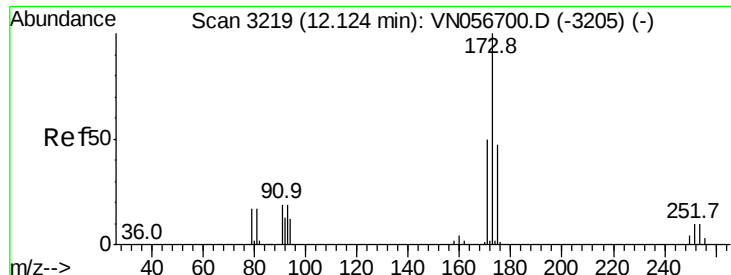
#70
Styrene
Concen: 0.392 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN056706.D
Acq: 15 Jul 2019 12:56

Tgt Ion:104 Resp: 3560
Ion Ratio Lower Upper
104 100
78 55.0 38.6 57.8
103 57.0 44.2 66.4



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





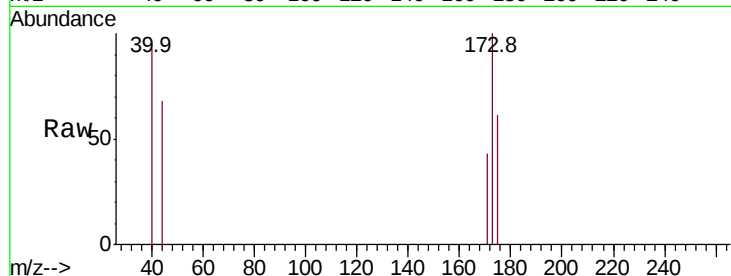
#71
Bromoform
Concen: 0.362 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN056706.D
Acq: 15 Jul 2019 12:56

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

Tot Ion	Ratio	Lower	Upper
173	100		
175	45.6	23.8	71.4
254	0.0	0.0	0.0

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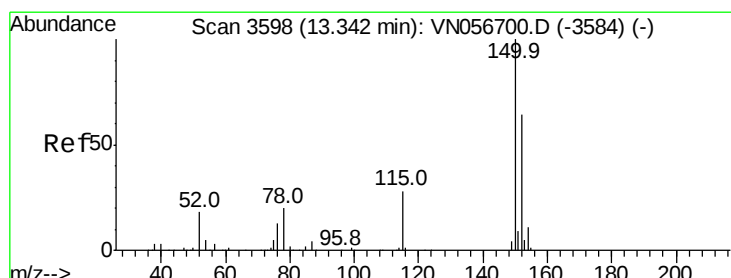
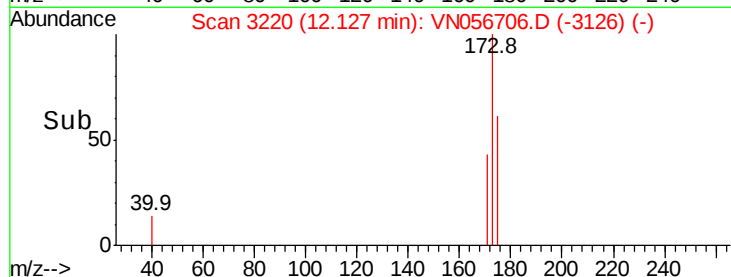
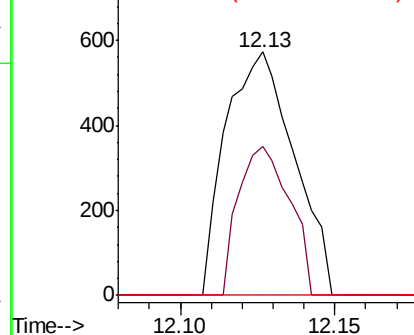


Abundance

Ion 172.70 (172.40 to 173.40): V

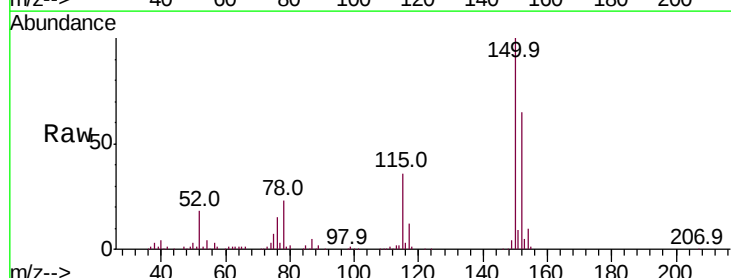
Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN056706.D
Acq: 15 Jul 2019 12:56

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.2	28.2	84.7
150	156.5	0.0	345.8

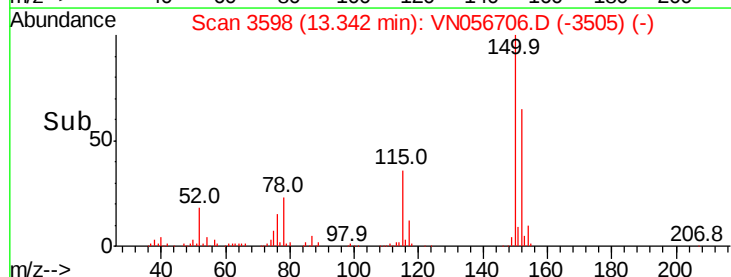
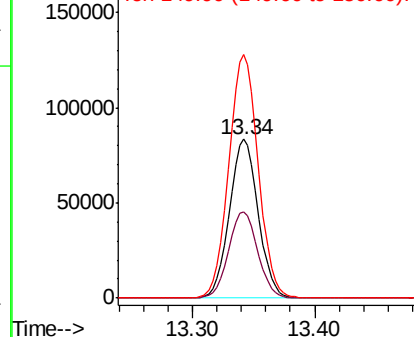


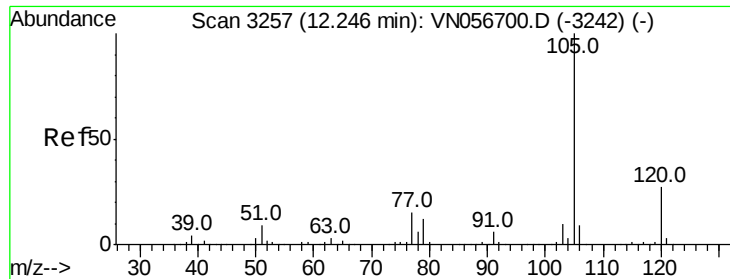
Abundance

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: 0.594 ug/l

RT: 12.25 min Scan# 3257

Delta R.T. -0.00 min

Lab File: VN056706.D

Acq: 15 Jul 2019 12:56

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion: 105 Resp: 6609

Ion Ratio Lower Upper

105 100

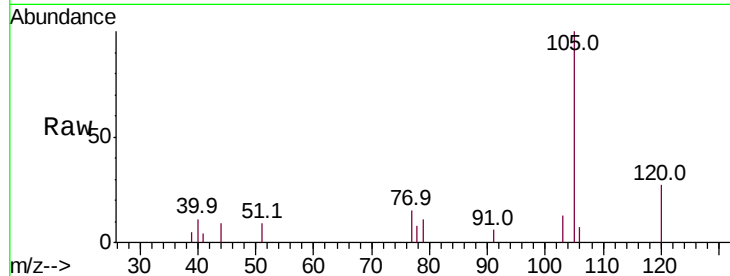
120 26.7 13.4 40.2

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

4000

3000

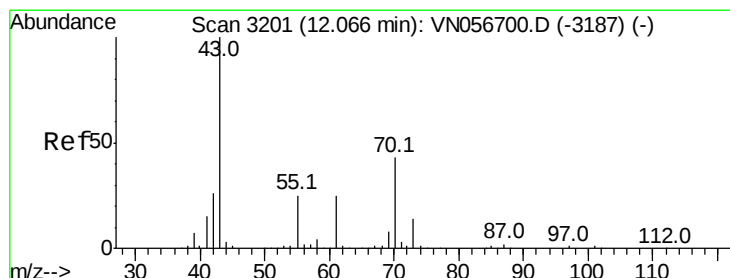
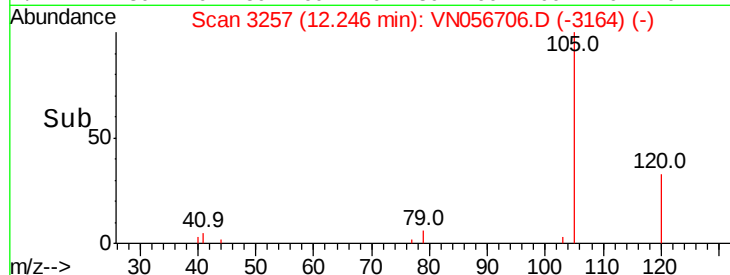
2000

1000

0

Time-->

12.20 12.25 12.30



#74

N-ethyl acetate

Concen: 0.464 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN056706.D

Acq: 15 Jul 2019 12:56

Tgt Ion: 43 Resp: 1924

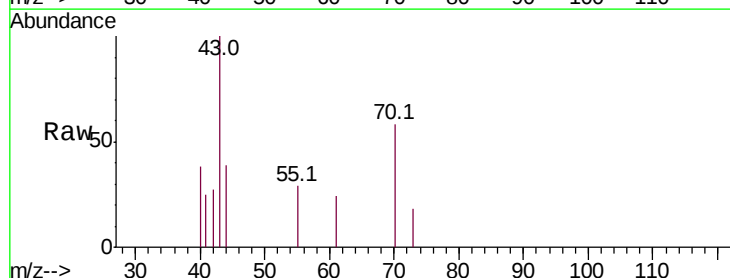
Ion Ratio Lower Upper

43 100

70 39.3 34.5 51.7

55 19.7 20.2 30.2#

61 12.4 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

1500

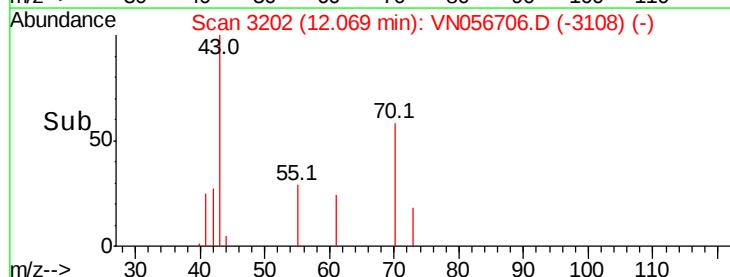
1000

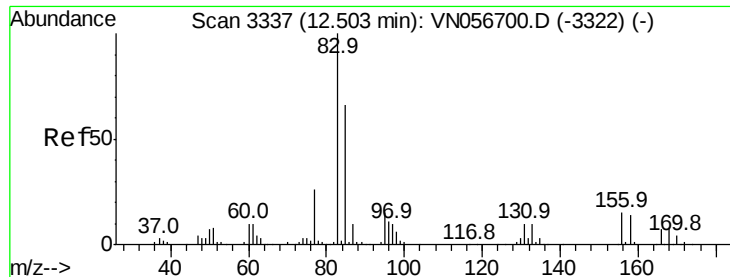
500

0

Time-->

12.05 12.10





#75

1,1,2,2-Tetrachloroethane

Concen: 0.618 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN056706.D

Acq: 15 Jul 2019 12:56

Instrument :

MSVOA_N

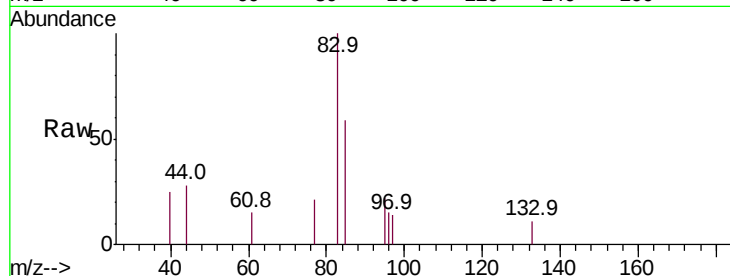
ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion:	83	Resp:	2311
Ion Ratio	Lower	Upper	
83	100		
131	0.0	5.3	15.8#
85	63.3	32.6	97.8

Manual Integrations
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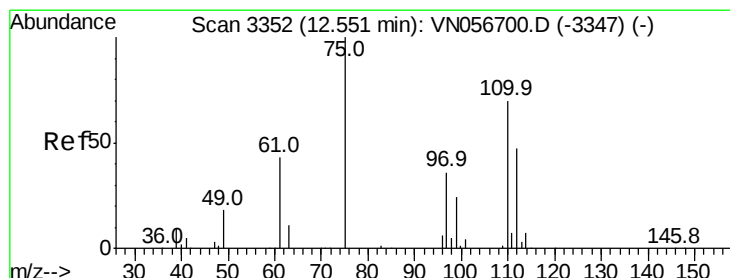
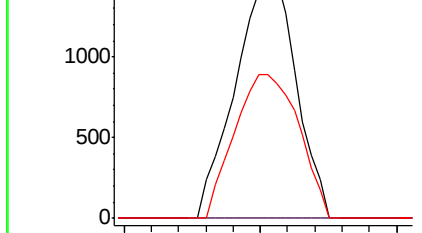
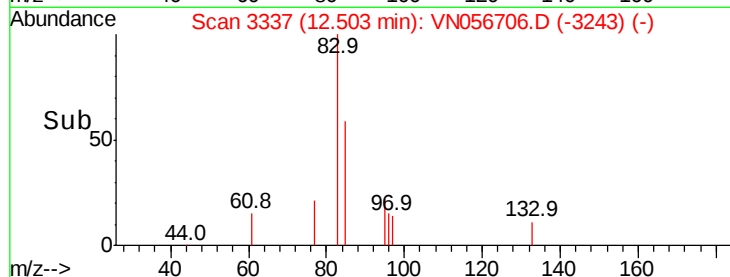


Abundance Ion 82.90 (82.60 to 83.60): VN056700.D (-3322) (-)

Ion 130.80 (130.50 to 131.50): VN056700.D (-3322) (-)

Ion 84.90 (84.60 to 85.60): VN056700.D (-3322) (-)

Time--> 12.45 12.50 12.55



#76

1,2,3-Trichloropropane

Concen: 0.633 ug/l m

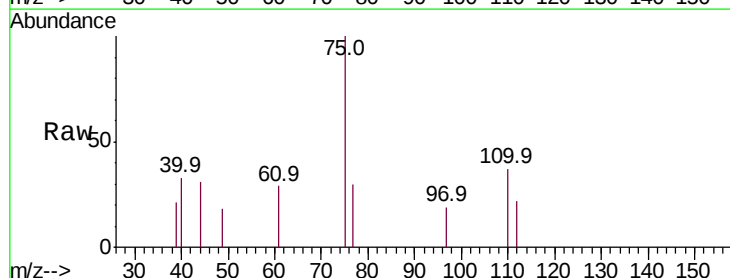
RT: 12.56 min Scan# 3354

Delta R.T. 0.01 min

Lab File: VN056706.D

Acq: 15 Jul 2019 12:56

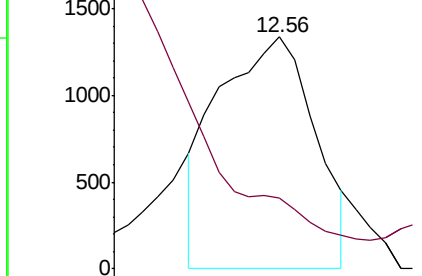
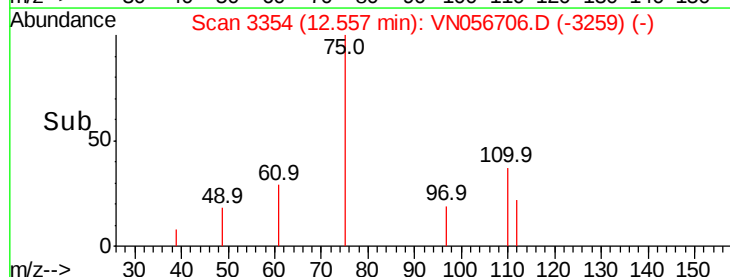
Tgt Ion:	75	Resp:	1909
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0

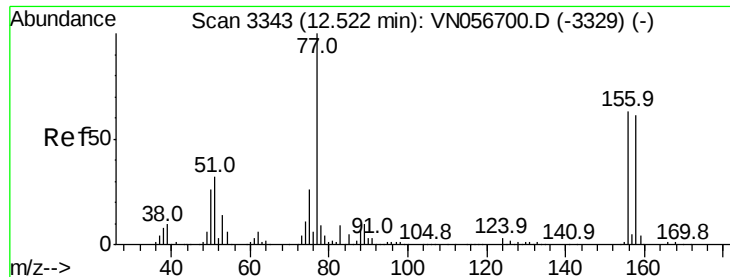


Abundance Ion 74.90 (74.60 to 75.60): VN056706.D (-3259) (-)

Ion 77.00 (76.70 to 77.70): VN056706.D (-3259) (-)

Time--> 12.54 12.56 12.58





#77

Bromobenzene

Concen: 0.562 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN056706.D

Acq: 15 Jul 2019 12:56

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion:156 Resp: 1635

Ion Ratio Lower Upper

156 100

77 214.2 97.2 291.6

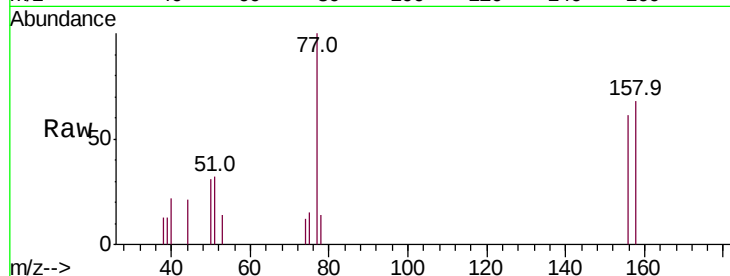
158 108.3 48.9 146.8

Manual Integrations

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MMDadoda

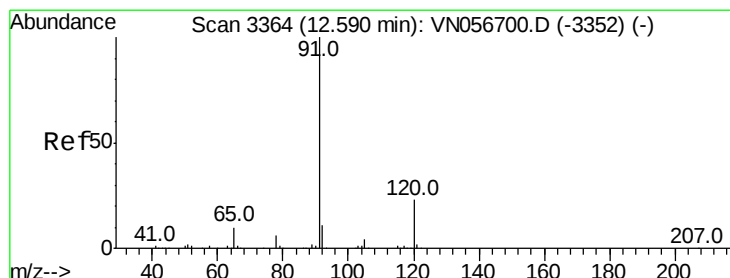
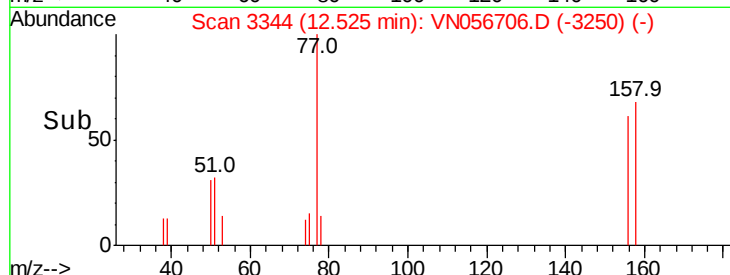
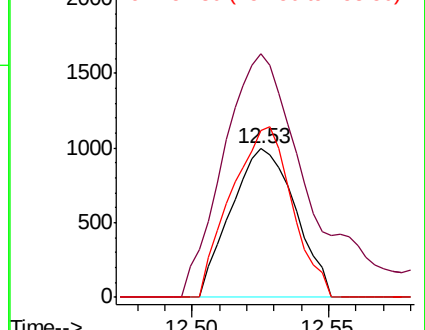
7/17/2019 1:31:31 AM



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: 0.566 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN056706.D

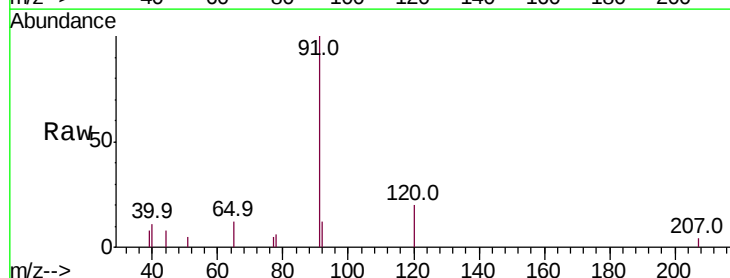
Acq: 15 Jul 2019 12:56

Tgt Ion: 91 Resp: 6990

Ion Ratio Lower Upper

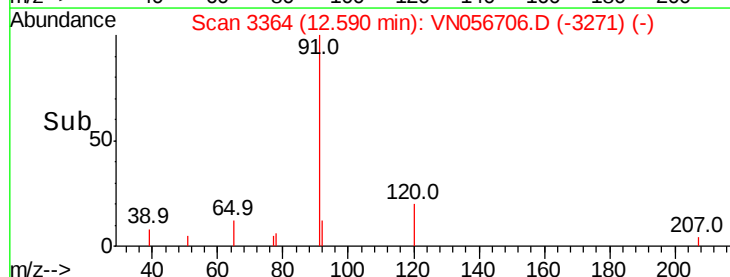
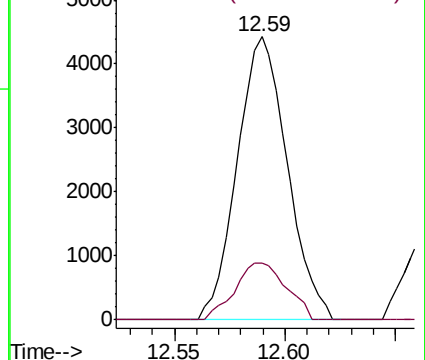
91 100

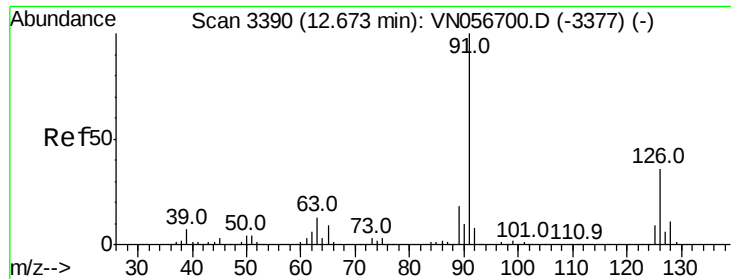
120 20.6 11.8 35.3



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





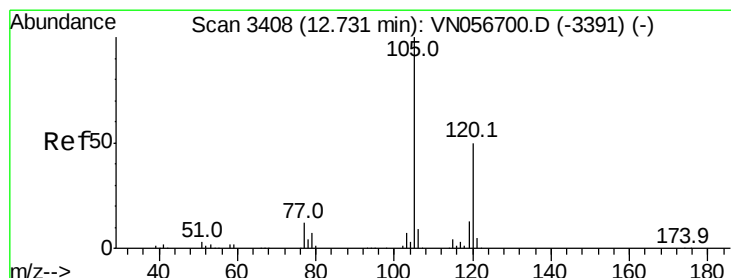
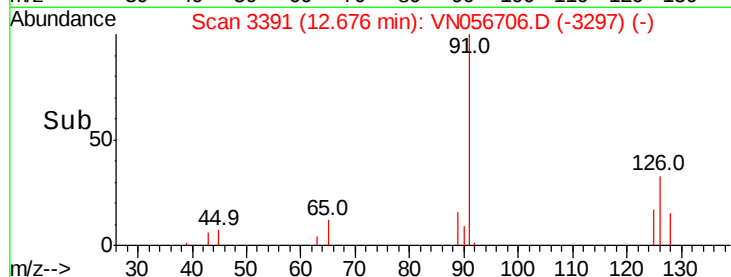
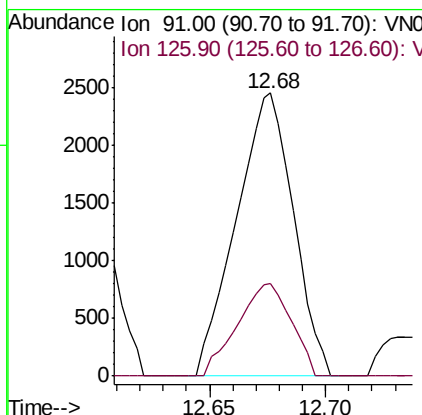
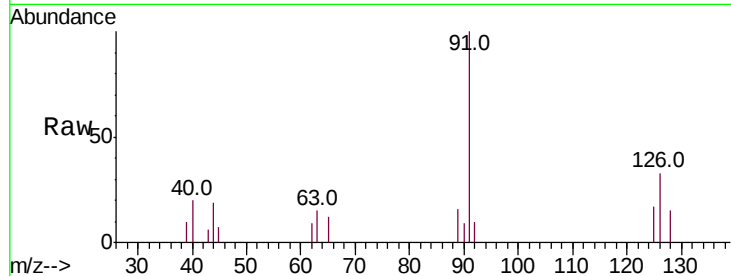
#79
 2-Chlorotoluene
 Concen: 0.549 ug/l
 RT: 12.68 min Scan# 3391
 Delta R.T. 0.00 min
 Lab File: VN056706.D
 Acq: 15 Jul 2019 12:56

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

Tot Ion: 91 Resp: 4195
 Ion Ratio Lower Upper
 91 100
 126 30.8 17.9 53.7

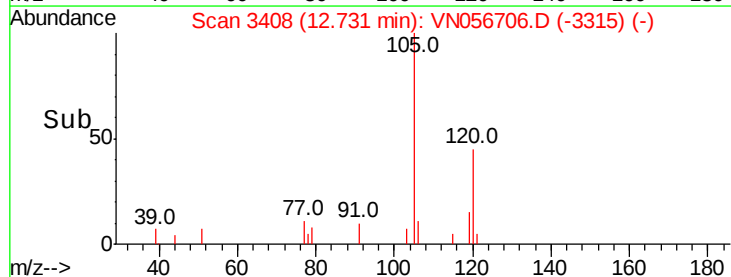
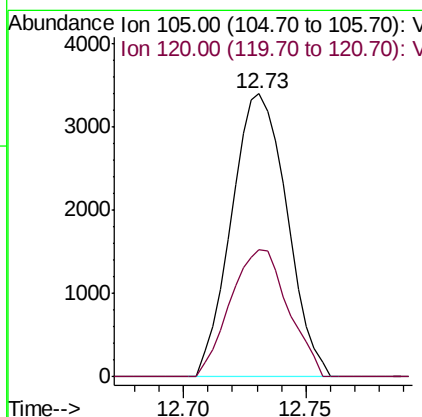
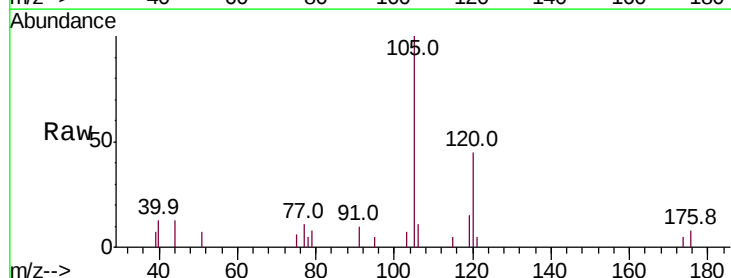
Manual Integrations
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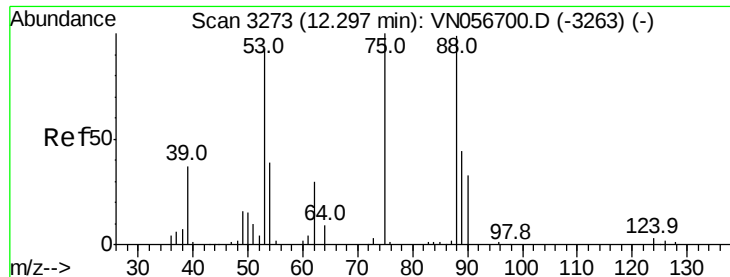
MMDadoda
 7/17/2019 1:31:31 AM



#80
 1,3,5-Trimethylbenzene
 Concen: 0.569 ug/l
 RT: 12.73 min Scan# 3408
 Delta R.T. -0.00 min
 Lab File: VN056706.D
 Acq: 15 Jul 2019 12:56

Tgt Ion: 105 Resp: 5363
 Ion Ratio Lower Upper
 105 100
 120 46.8 24.8 74.3





#81

trans-1,4-Dichloro-2-butene

Concen: 0.219 ug/l m

RT: 12.30 min Scan# 3275

Delta R.T. 0.01 min

Lab File: VN056706.D

Acq: 15 Jul 2019 12:56

Instrument :

MSVOA_N

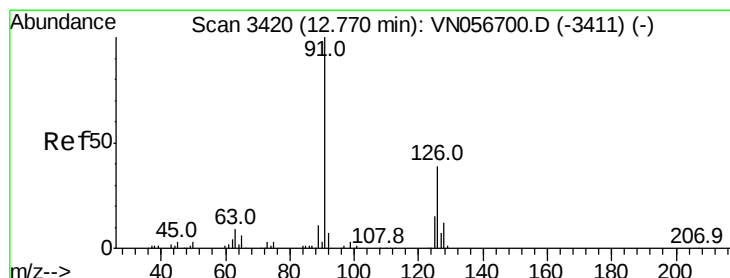
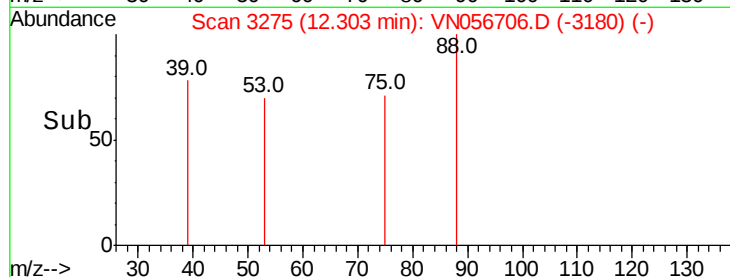
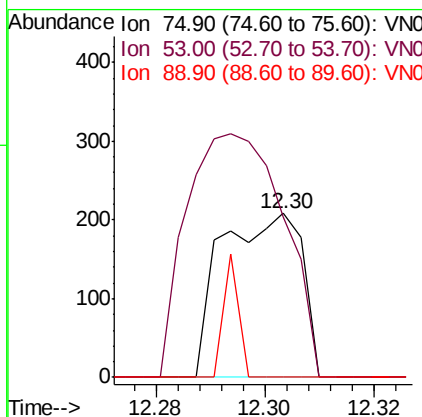
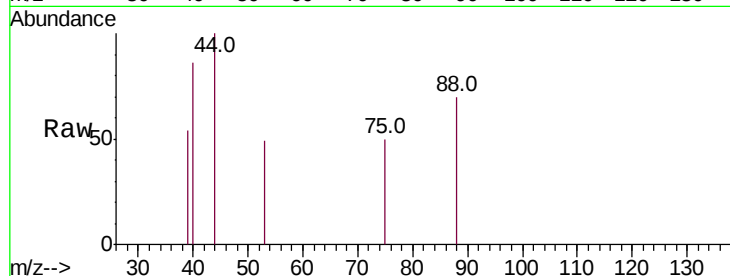
ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion:	75	Resp:	214
Ion	Ratio	Lower	Upper
75	100		
53	0.0	73.7	110.5#
89	0.0	36.2	54.2#

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



#82

4-Chlorotoluene

Concen: 0.569 ug/l

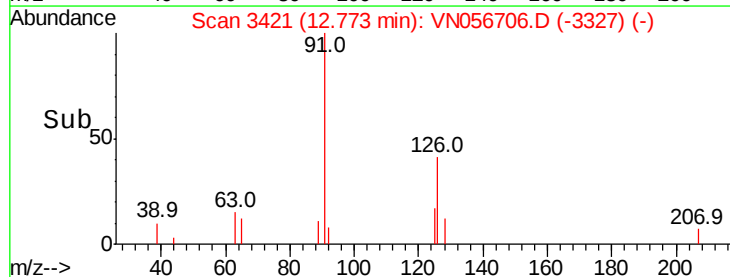
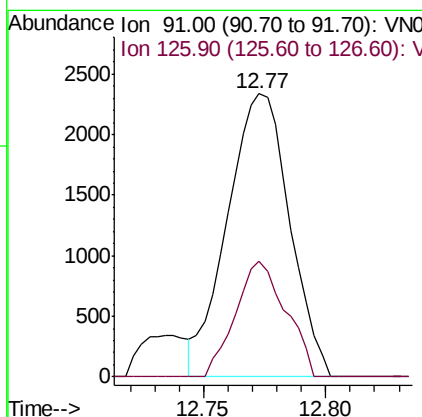
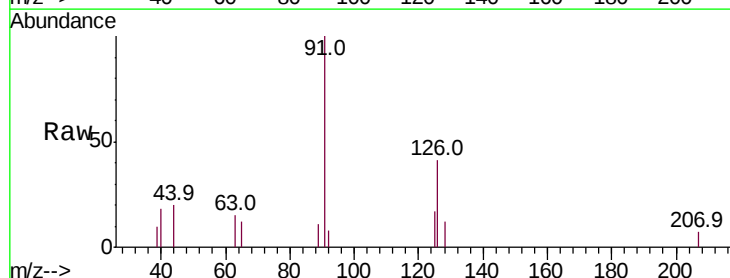
RT: 12.77 min Scan# 3421

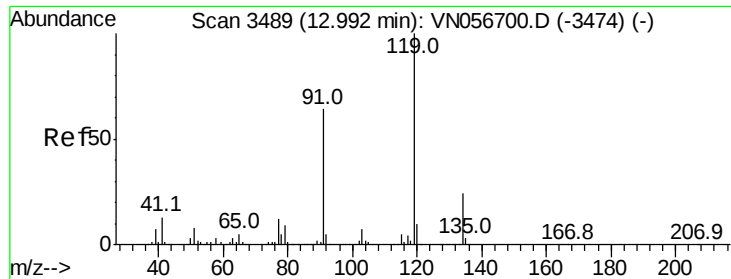
Delta R.T. 0.00 min

Lab File: VN056706.D

Acq: 15 Jul 2019 12:56

Tgt Ion:	91	Resp:	4126
Ion	Ratio	Lower	Upper
91	100		
126	33.1	17.6	52.8





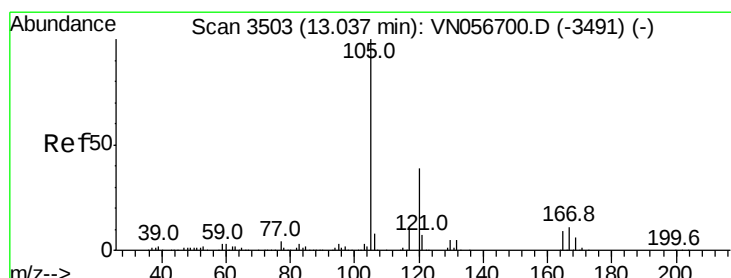
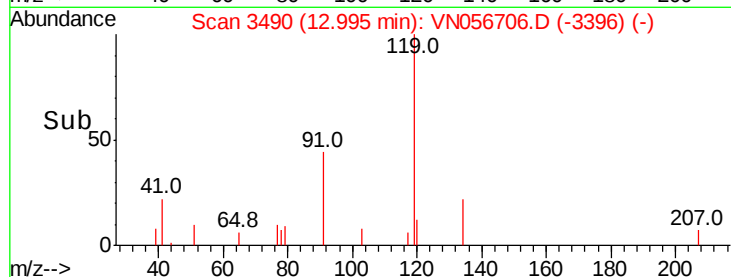
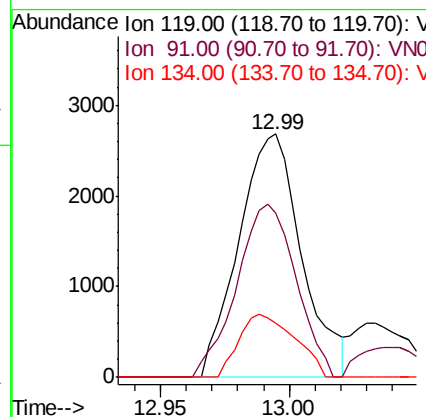
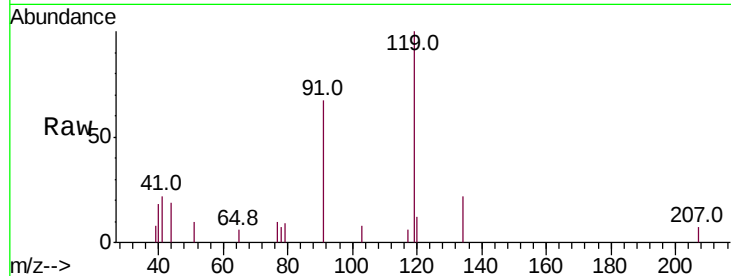
#83
 tert-Butylbenzene
 Concen: 0.556 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN056706.D
 Acq: 15 Jul 2019 12:56

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

Tot Ion	Ratio	Resp	Lower	Upper
119	100	4560		
91	66.9		31.8	95.4
134	23.0		13.0	38.9

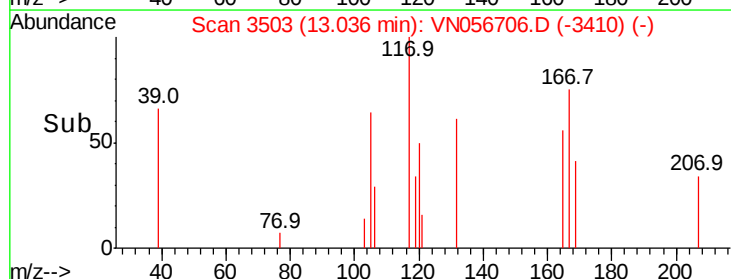
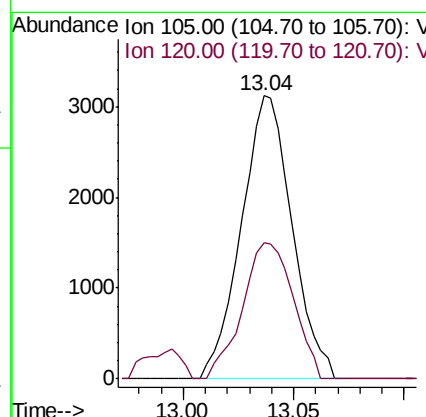
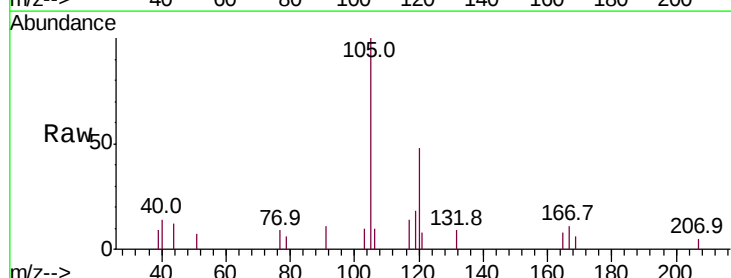
Manual Integrations
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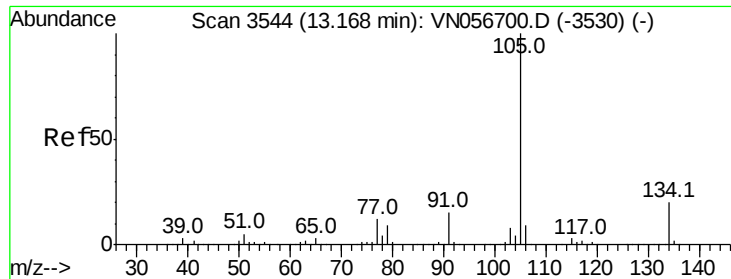
MMDadoda
 7/17/2019 1:31:31 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 0.540 ug/l
 RT: 13.04 min Scan# 3503
 Delta R.T. -0.00 min
 Lab File: VN056706.D
 Acq: 15 Jul 2019 12:56

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	4976		
120	48.2		22.9	68.8





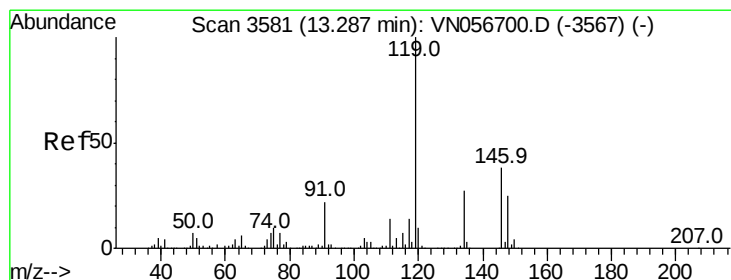
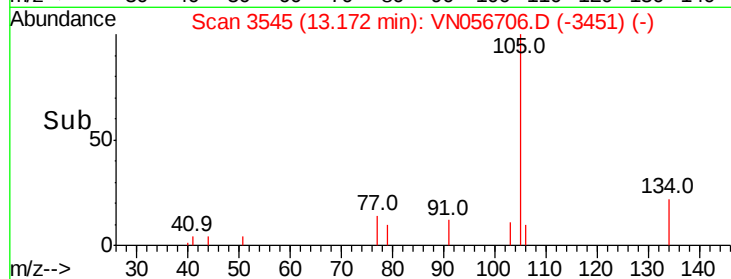
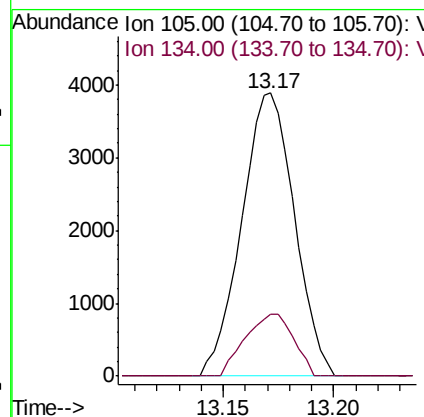
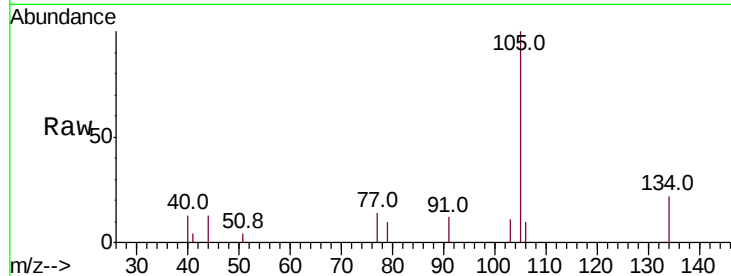
#85
 sec-Butylbenzene
 Concen: 0.617 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN056706.D
 Acq: 15 Jul 2019 12:56

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

Tot Ion:105 Resp: 6462
 Ion Ratio Lower Upper
 105 100
 134 20.1 10.1 30.1

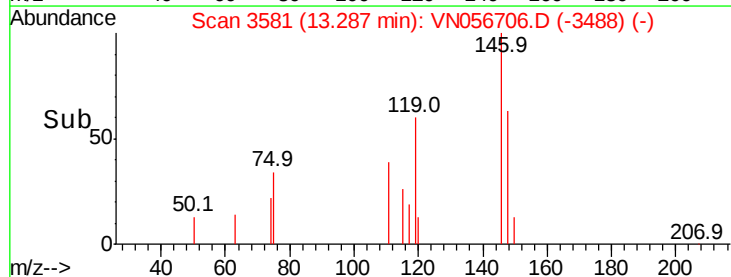
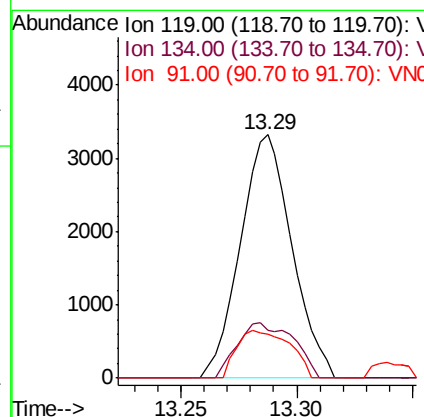
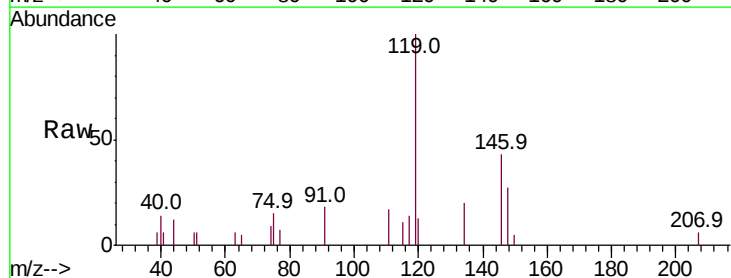
Manual Integrations
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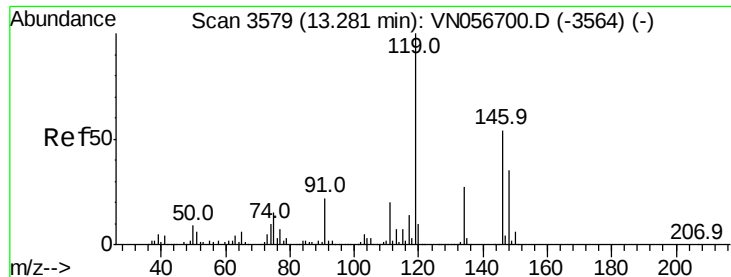
MMDadoda
 7/17/2019 1:31:31 AM



#86
 p-Isopropyltoluene
 Concen: 0.541 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. -0.00 min
 Lab File: VN056706.D
 Acq: 15 Jul 2019 12:56

Tgt Ion:119 Resp: 5134
 Ion Ratio Lower Upper
 119 100
 134 24.6 13.6 40.7
 91 20.0 11.2 33.5





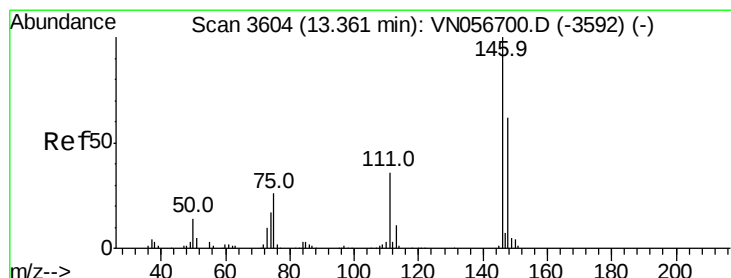
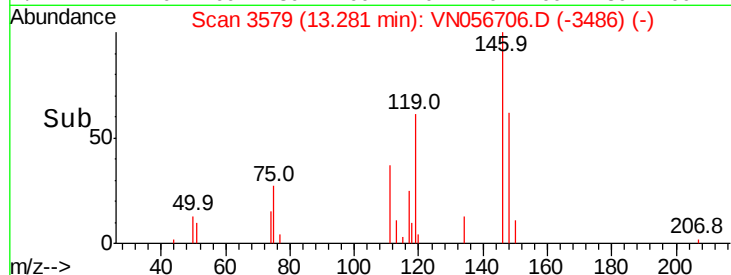
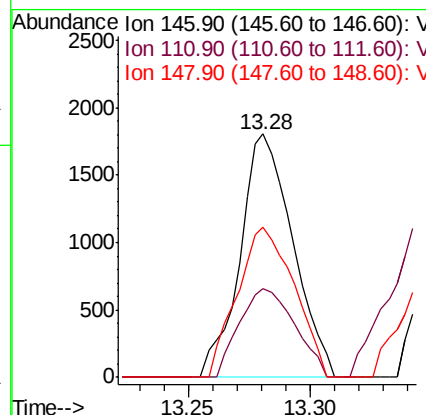
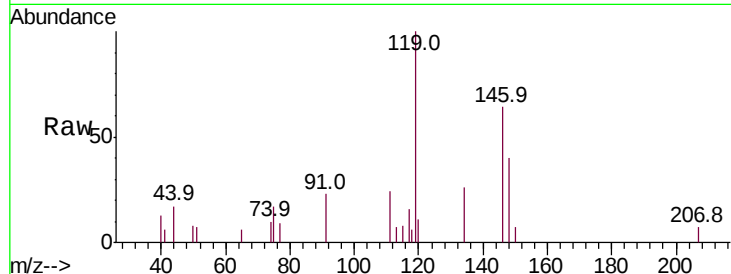
#87
 1,3-Dichlorobenzene
 Concen: 0.565 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. -0.00 min
 Lab File: VN056706.D
 Acq: 15 Jul 2019 12:56

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

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.5	18.8	56.3
148	67.0	32.3	96.8

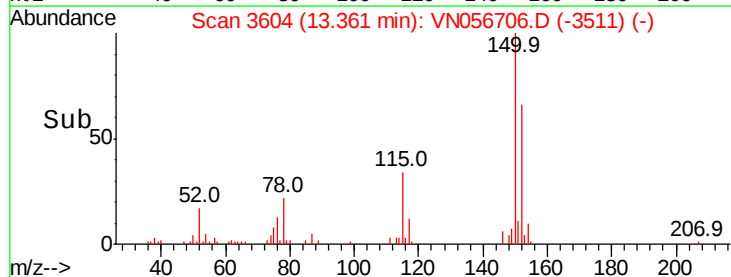
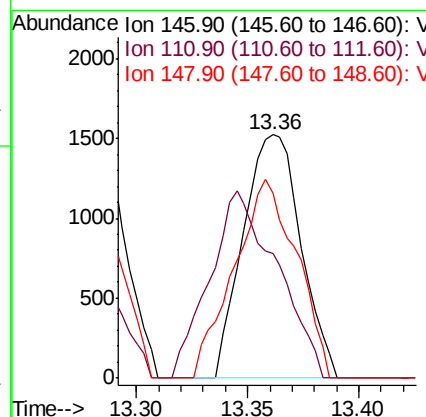
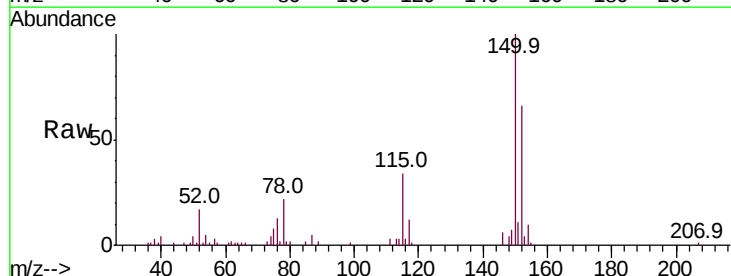
Manual Integrations
 APPROVED

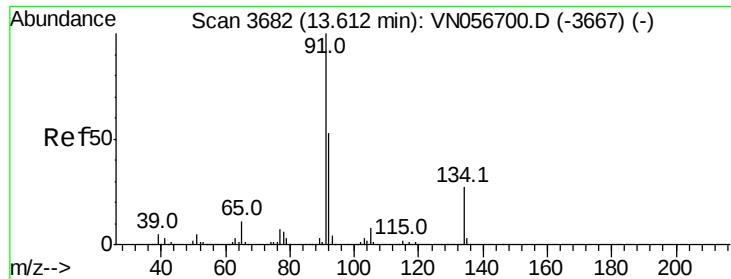
MMDadoda
 7/17/2019 1:31:31 AM



#88
 1,4-Dichlorobenzene
 Concen: 0.590 ug/l m
 RT: 13.36 min Scan# 3604
 Delta R.T. -0.00 min
 Lab File: VN056706.D
 Acq: 15 Jul 2019 12:56

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.9	18.6	55.8
148	66.0	31.9	95.7





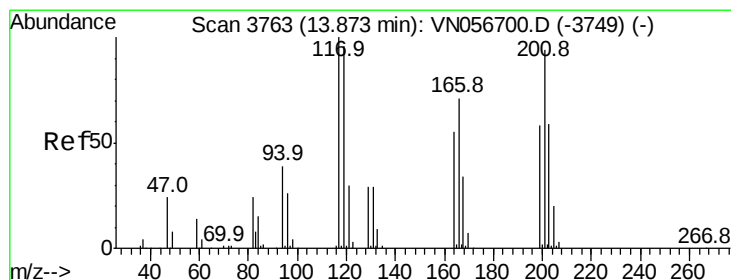
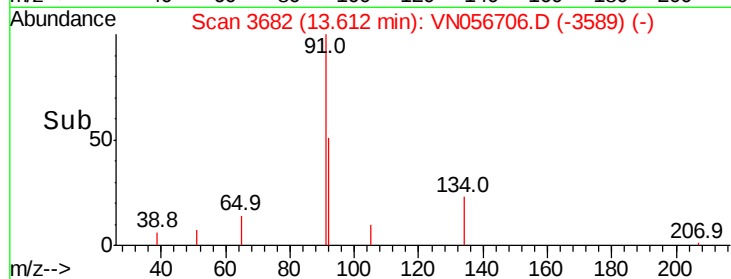
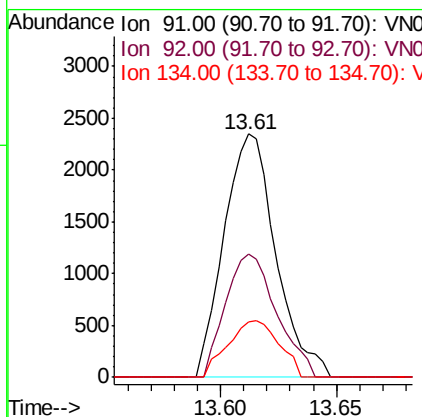
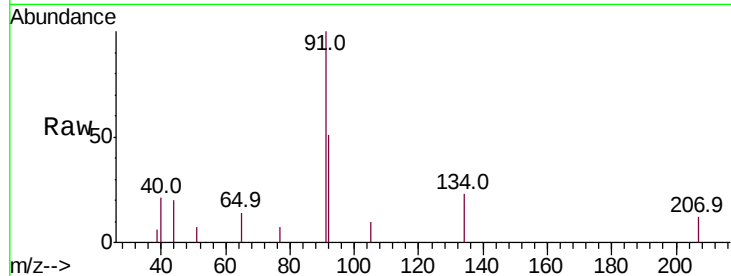
#89
n-Butylbenzene
Concen: 0.476 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. -0.00 min
Lab File: VN056706.D
Acq: 15 Jul 2019 12:56

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

Tot Ion	Ratio	Lower	Upper
91	100		
92	50.1	26.0	78.0
134	23.1	13.4	40.2

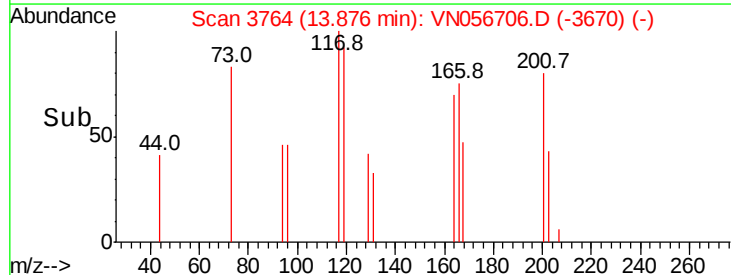
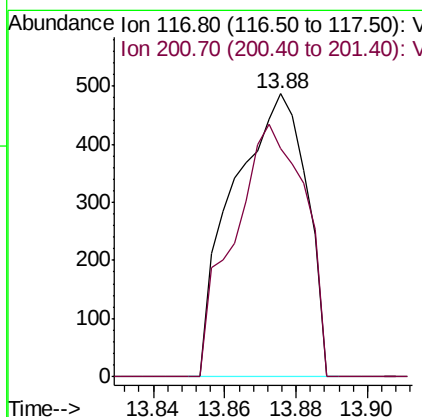
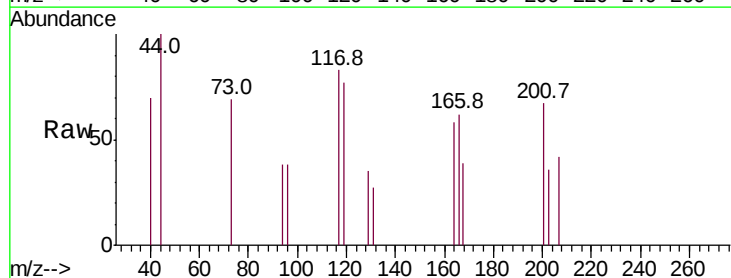
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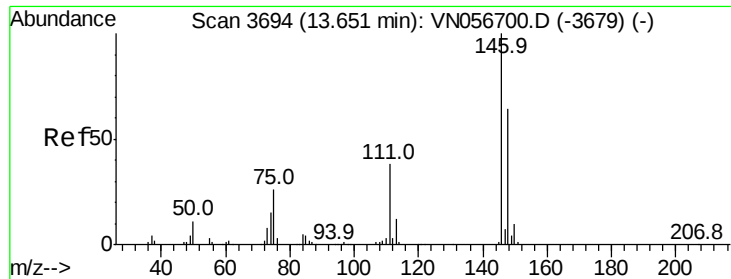
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#90
Hexachloroethane
Concen: 0.450 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. 0.00 min
Lab File: VN056706.D
Acq: 15 Jul 2019 12:56

Tgt Ion	Ratio	Lower	Upper
117	100		
201	86.7	46.5	139.5





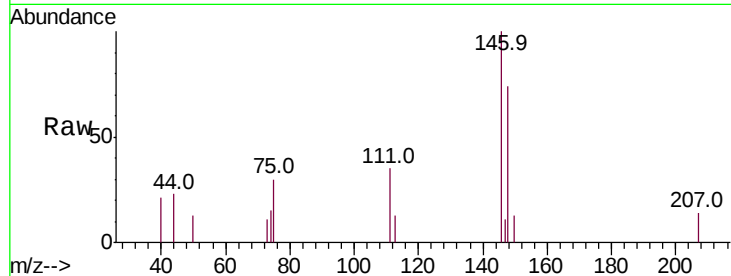
#91
 1,2-Dichlorobenzene
 Concen: 0.519 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. -0.00 min
 Lab File: VN056706.D
 Acq: 15 Jul 2019 12:56

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

Tot Ion	Ratio	Lower	Upper
146	100		
111	33.4	19.1	57.1
148	72.7	31.7	95.1

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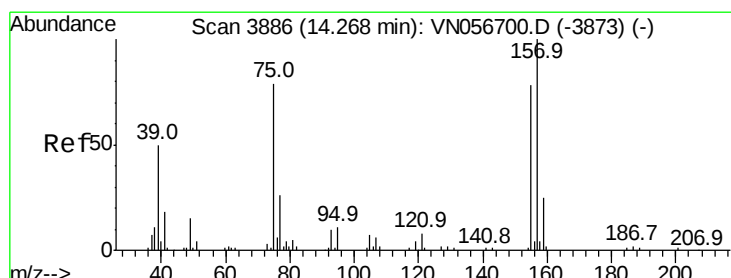
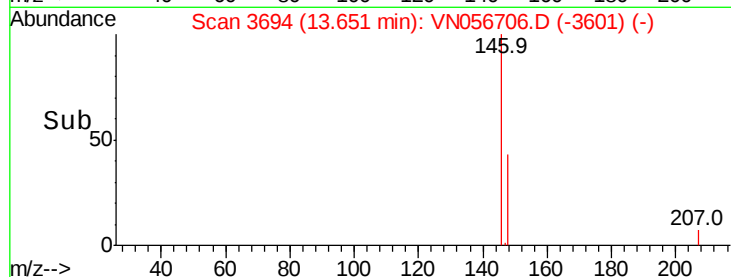
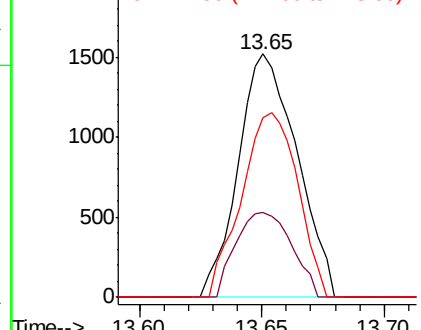


Abundance

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: 0.235 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. -0.00 min
 Lab File: VN056706.D
 Acq: 15 Jul 2019 12:56

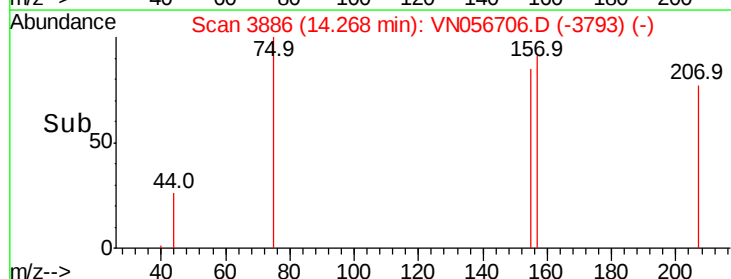
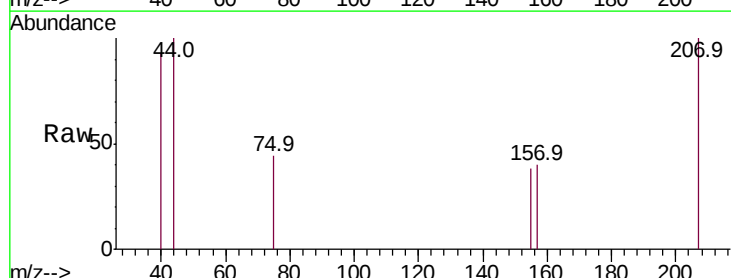
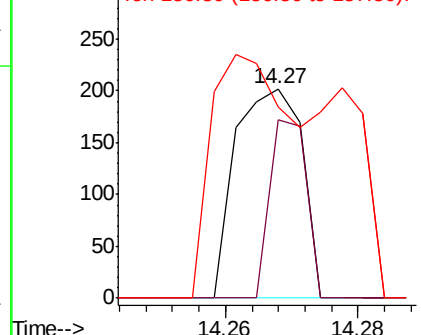
Tgt Ion	Ratio	Lower	Upper
75	100		
155	46.4	49.3	147.9#
157	139.3	62.4	187.1

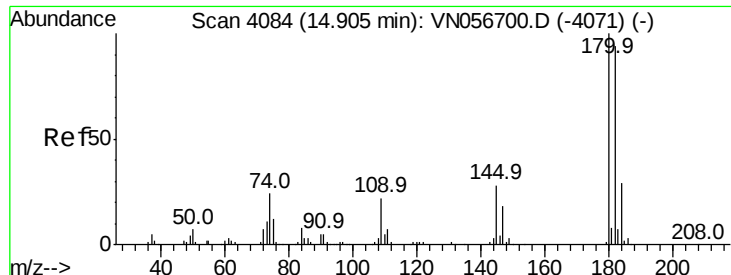
Abundance

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





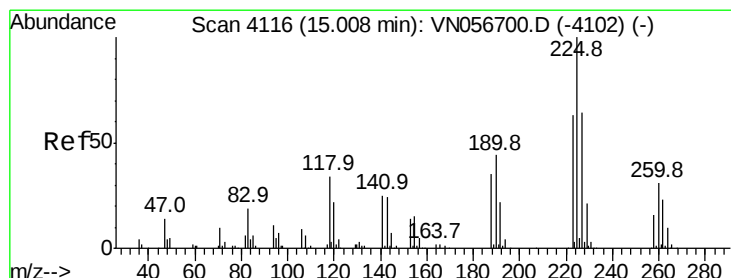
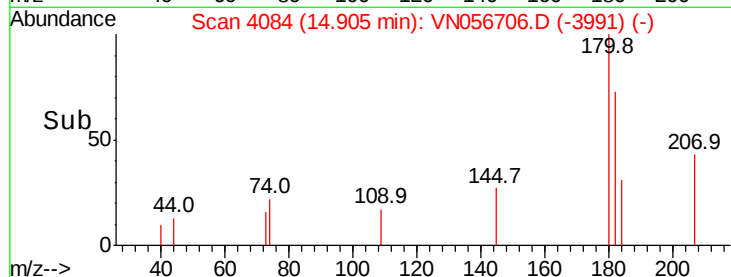
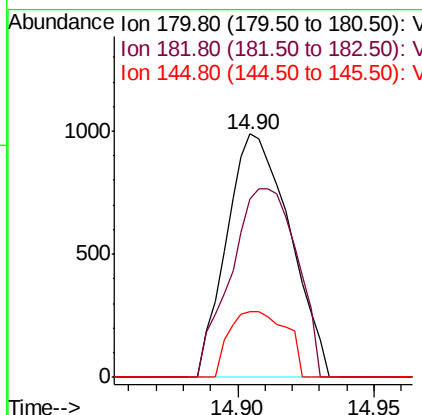
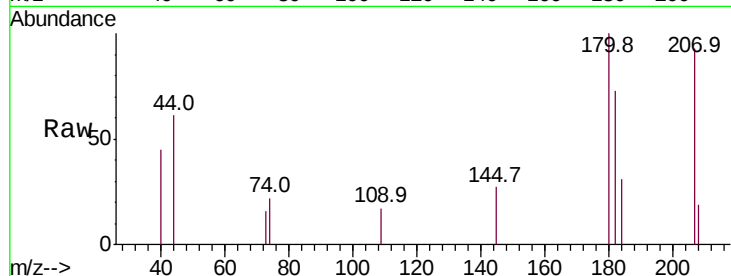
#93
 1,2,4-Trichlorobenzene
 Concen: 0.712 ug/l
 RT: 14.90 min Scan# 4084
 Delta R.T. 0.00 min
 Lab File: VN056706.D
 Acq: 15 Jul 2019 12:56

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

Tot Ion	Ratio	Resp	Lower	Upper
180	100	1590		
182	80.9	47.2	141.6	
145	24.3	14.2	42.8	

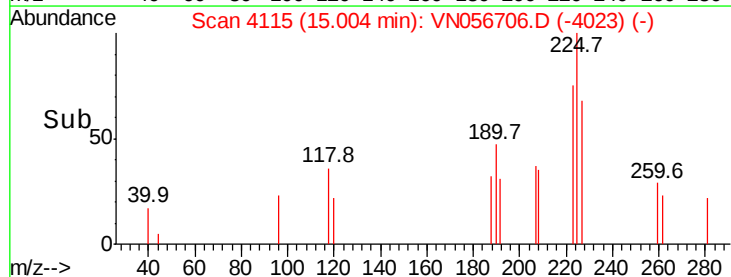
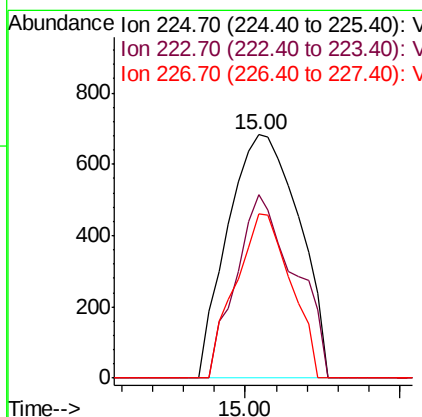
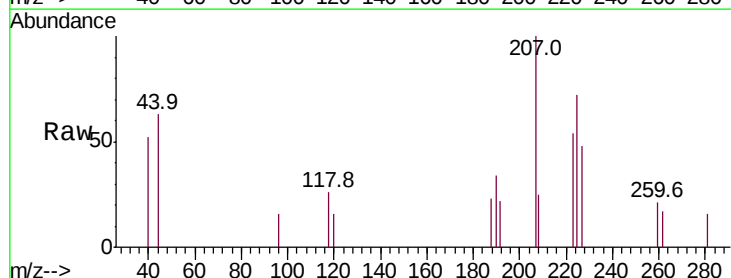
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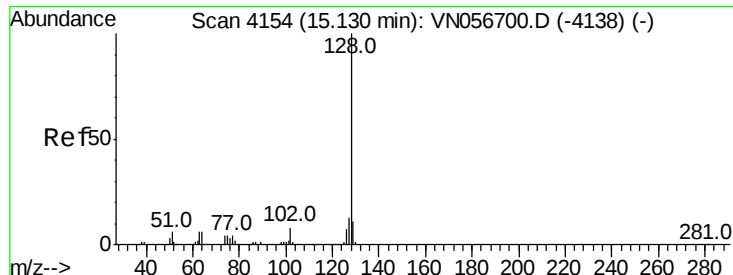
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#94
 Hexachlorobutadiene
 Concen: 0.630 ug/l
 RT: 15.00 min Scan# 4115
 Delta R.T. -0.00 min
 Lab File: VN056706.D
 Acq: 15 Jul 2019 12:56

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	1094		
223	61.8	31.5	94.5	
227	52.4	32.0	96.2	





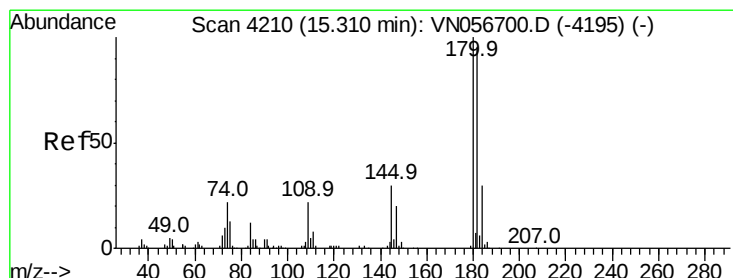
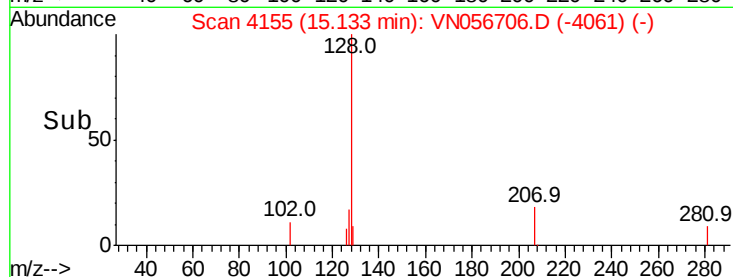
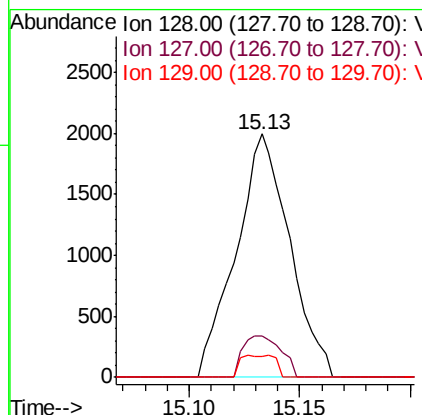
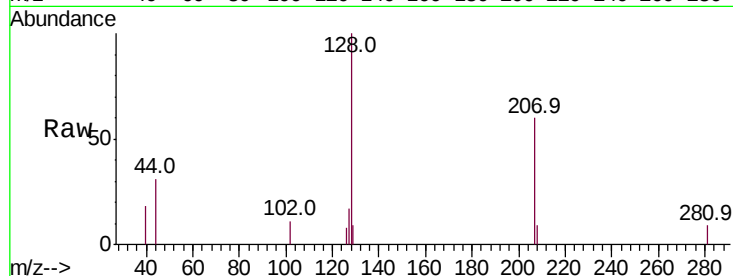
#95
Naphthalene
Concen: 0.563 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN056706.D
Acq: 15 Jul 2019 12:56

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

Tot Ion:128 Resp: 3373
Ion Ratio Lower Upper
128 100
127 12.2 10.3 15.5
129 5.9 8.7 13.1#

Manual Integrations
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#96
1,2,3-Trichlorobenzene
Concen: 0.762 ug/l
RT: 15.31 min Scan# 4209
Delta R.T. -0.00 min
Lab File: VN056706.D
Acq: 15 Jul 2019 12:56

Tgt Ion:180 Resp: 1756
Ion Ratio Lower Upper
180 100
182 96.2 47.1 141.3
145 22.4 15.0 45.1

