

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN040519\
 Data File : VN054965.D
 Acq On : 5 Apr 2019 10:53
 Operator : JC/SP
 Sample : K2241-07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

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

Manual Integrations
 APPROVED

MMDadoda
 4/8/2019 3:34:06 AM

Quant Time: Apr 06 00:02:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N040419W.M
 Quant Title : SW846 8260
 QLast Update : Fri Apr 05 02:23:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	394592	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	678768	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	574299	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	191830	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	278100	53.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.90%	
35) Dibromofluoromethane	7.59	113	217851	49.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.60%	
50) Toluene-d8	10.09	98	802427	47.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.72%	
62) 4-Bromofluorobenzene	12.40	95	238107	42.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	85.12%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.85	85	4201	0.890	ug/l	96
3) Chloromethane	2.06	50	5907	0.947	ug/l	96
4) Vinyl Chloride	2.19	62	5620	1.031	ug/l	96
5) Bromomethane	2.57	94	3644	1.171	ug/l	100
6) Chloroethane	2.71	64	2875	0.946	ug/l	99
7) Trichlorofluoromethane	3.03	101	6499	0.982	ug/l	95
8) Diethyl Ether	3.41	74	2356	1.118	ug/l #	41
9) 1,1,2-Trichlorotrifluoroet	3.76	101	3693	1.053	ug/l	92
10) Methyl Iodide	3.94	142	4119m	0.833	ug/l	
11) Tert butyl alcohol	4.84	59	1132m	4.216	ug/l	
12) 1,1-Dichloroethene	3.74	96	3277	0.942	ug/l #	92
13) Acrolein	3.60	56	250	4.767	ug/l #	58
14) Allyl chloride	4.33	41	7850	1.017	ug/l	94
15) Acrylonitrile	5.00	53	7905m	4.910	ug/l	
16) Acetone	3.82	43	7061	Below Cal		98
17) Carbon Disulfide	4.04	76	10117	0.914	ug/l	98
18) Methyl Acetate	4.33	43	3864	Below Cal	#	77
19) Methyl tert-butyl Ether	5.06	73	10592	0.939	ug/l	100
20) Methylene Chloride	4.54	84	5576	1.155	ug/l	86
21) trans-1,2-Dichloroethene	5.03	96	3514	0.809	ug/l #	75
22) Diisopropyl ether	5.95	45	16053m	1.013	ug/l	
23) Vinyl Acetate	5.90	43	44812	4.062	ug/l #	95
24) 1,1-Dichloroethane	5.85	63	8795	1.017	ug/l	96
25) 2-Butanone	6.86	43	7458	3.818	ug/l #	82
26) 2,2-Dichloropropane	6.83	77	5383	0.888	ug/l #	72
27) cis-1,2-Dichloroethene	6.84	96	5271m	1.070	ug/l	
28) Bromochloromethane	7.20	49	4080m	1.007	ug/l	
29) Tetrahydrofuran	7.22	42	5840	4.561	ug/l #	82
30) Chloroform	7.37	83	8146	0.994	ug/l	99
31) Cyclohexane	7.66	56	15874	0.369	ug/l #	32
32) 1,1,1-Trichloroethane	7.57	97	6695	0.968	ug/l #	52
36) 1,1-Dichloropropene	7.79	75	6560	0.975	ug/l	91
37) Ethyl Acetate	6.94	43	4290m	0.929	ug/l	
38) Carbon Tetrachloride	7.77	117	6612	1.018	ug/l #	84

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN040519\
 Data File : VN054965.D
 Acq On : 5 Apr 2019 10:53
 Operator : JC/SP
 Sample : K2241-07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

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

Manual Integrations
 APPROVED

MMDadoda
 4/8/2019 3:34:06 AM

Quant Time: Apr 06 00:02:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N040419W.M
 Quant Title : SW846 8260
 QLast Update : Fri Apr 05 02:23:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	6994	0.945	ug/l	97
40) Benzene	8.04	78	17485	0.904	ug/l	97
41) Methacrylonitrile	7.18	41	1895	0.718	ug/l #	81
42) 1,2-Dichloroethane	8.12	62	6699	0.985	ug/l	98
43) Isopropyl Acetate	8.17	43	6931	0.891	ug/l	96
44) Trichloroethene	8.83	130	4587	0.927	ug/l	90
45) 1,2-Dichloropropane	9.12	63	5022	0.931	ug/l	89
46) Dibromomethane	9.20	93	2886	0.944	ug/l	96
47) Bromodichloromethane	9.41	83	5121	0.797	ug/l	92
48) Methyl methacrylate	9.20	41	3432	0.872	ug/l	91
49) 1,4-Dioxane	9.21	88	796	20.028	ug/l #	74
51) 4-Methyl-2-Pentanone	9.99	43	18502	4.264	ug/l	99
52) Toluene	10.15	92	10552	0.925	ug/l	97
53) t-1,3-Dichloropropene	10.38	75	3965	2.600	ug/l #	81
54) cis-1,3-Dichloropropene	9.84	75	5530	0.765	ug/l	92
55) 1,1,2-Trichloroethane	10.56	97	3841	0.929	ug/l	94
56) Ethyl methacrylate	10.43	69	4431	0.819	ug/l	97
57) 1,3-Dichloropropane	10.71	76	6516	0.902	ug/l	97
58) 2-Chloroethyl Vinyl ether	9.69	63	7187	12.729	ug/l	98
59) 2-Hexanone	10.76	43	10222	3.771	ug/l	99
60) Dibromochloromethane	10.90	129	3146	0.726	ug/l	94
61) 1,2-Dibromoethane	11.01	107	3393	0.873	ug/l	100
64) Tetrachloroethene	10.63	164	4352	0.940	ug/l	93
65) Chlorobenzene	11.43	112	11220	0.958	ug/l	93
66) 1,1,1,2-Tetrachloroethane	11.51	131	3595	0.839	ug/l #	59
67) Ethyl Benzene	11.51	91	18627	0.883	ug/l	96
68) m/p-Xylenes	11.62	106	13859	1.796	ug/l	89
69) o-Xylene	11.95	106	6912	0.918	ug/l	93
70) Styrene	11.96	104	10202	0.845	ug/l	93
71) Bromoform	12.12	173	2119	0.823	ug/l #	92
73) Isopropylbenzene	12.25	105	16795	1.036	ug/l	98
74) N-amyl acetate	12.07	43	4043	0.898	ug/l #	92
75) 1,1,2,2-Tetrachloroethane	12.50	83	4353	Below Cal		100
76) 1,2,3-Trichloropropane	12.56	75	4074m	Below Cal		
77) Bromobenzene	12.53	156	4187	1.067	ug/l	98
78) n-propylbenzene	12.59	91	17975	1.007	ug/l	100
79) 2-Chlorotoluene	12.67	91	11782	1.065	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	14107	1.060	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.30	75	616m	0.742	ug/l	
82) 4-Chlorotoluene	12.77	91	10986	1.050	ug/l	95
83) tert-Butylbenzene	12.99	119	12189	1.077	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	12361	0.960	ug/l	98
85) sec-Butylbenzene	13.17	105	13535	0.924	ug/l	96
86) p-Isopropyltoluene	13.29	119	12037	0.954	ug/l	97
87) 1,3-Dichlorobenzene	13.28	146	6298	0.965	ug/l	97
88) 1,4-Dichlorobenzene	13.36	146	6717	1.081	ug/l	95
89) n-Butylbenzene	13.62	91	8209	0.814	ug/l	96
90) Hexachloroethane	13.88	117	2093	0.988	ug/l	97
91) 1,2-Dichlorobenzene	13.65	146	6424	1.002	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	713	1.285	ug/l	66

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN040519\
Data File : VN054965.D
Acq On : 5 Apr 2019 10:53
Operator : JC/SP
Sample : K2241-07
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 6 Sample Multiplier: 1

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

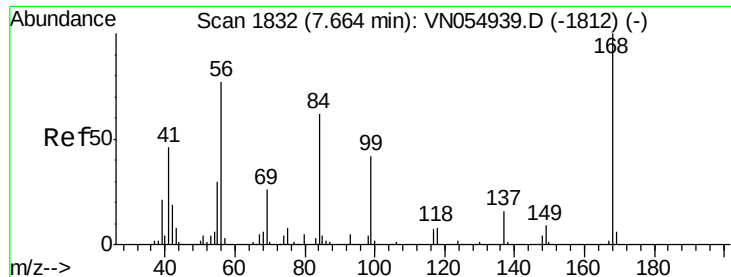
Manual Integrations
APPROVED

MMDadoda
4/8/2019 3:34:06 AM

Quant Time: Apr 06 00:02:05 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N040419W.M
Quant Title : SW846 8260
QLast Update : Fri Apr 05 02:23:47 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.90	180	2206	3.080	ug/l	90
94) Hexachlorobutadiene	15.01	225	2562	1.195	ug/l	91
95) Naphthalene	15.14	128	4608	3.467	ug/l #	96
96) 1,2,3-Trichlorobenzene	15.31	180	2593	0.881	ug/l	95

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN054965.D

Acq: 5 Apr 2019 10:53

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion:168 Resp: 394592

Ion Ratio Lower Upper

168 100

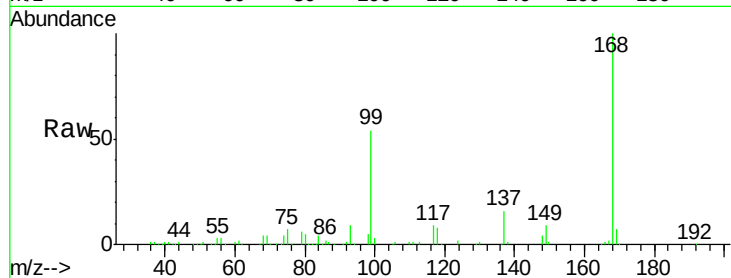
99 54.1 44.1 66.1

Manual Integrations

APPROVED

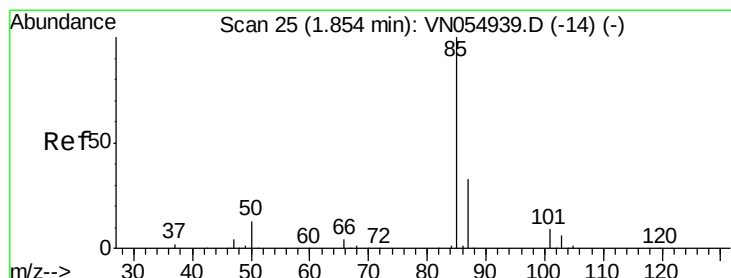
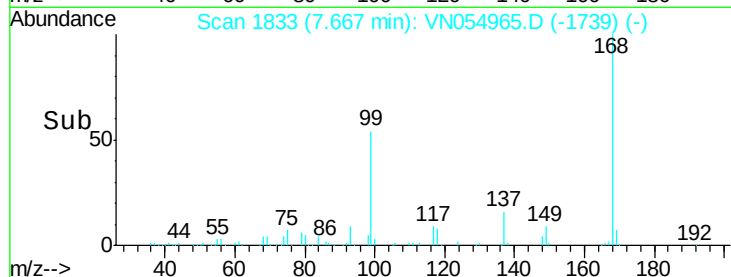
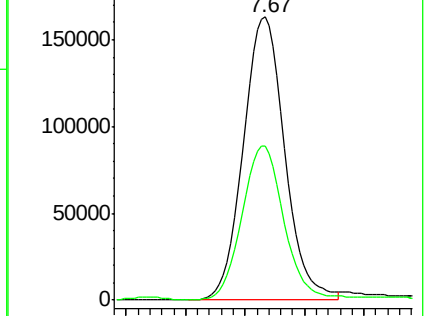
MMDadoda

4/8/2019 3:34:06 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#2

Dichlorodifluoromethane

Concen: 0.890 ug/l

RT: 1.85 min Scan# 25

Delta R.T. -0.00 min

Lab File: VN054965.D

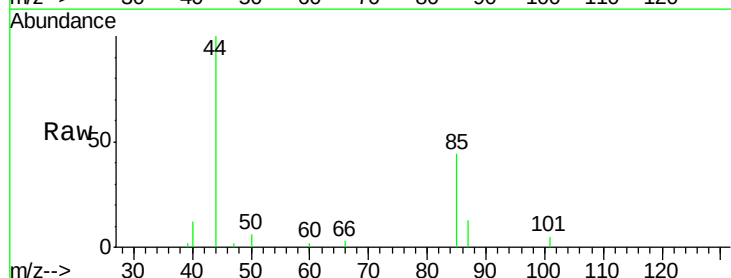
Acq: 5 Apr 2019 10:53

Tgt Ion: 85 Resp: 4201

Ion Ratio Lower Upper

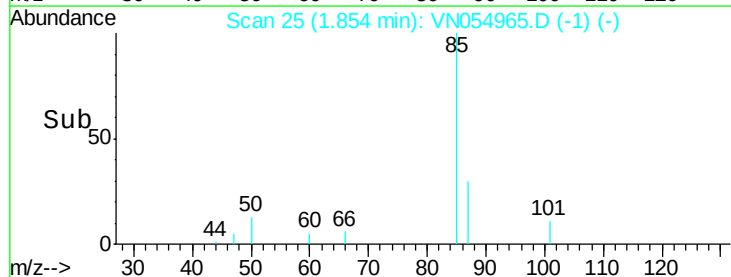
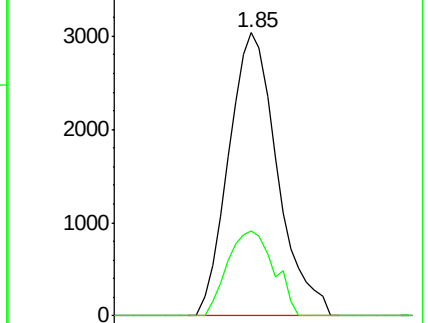
85 100

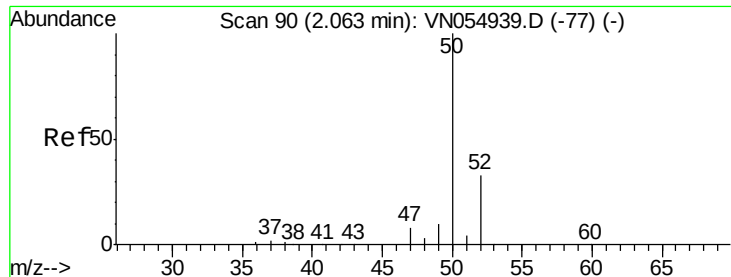
87 30.1 16.3 48.8



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN





#3

Chloromethane

Concen: 0.947 ug/l

RT: 2.06 min Scan# 90

Delta R.T. -0.00 min

Lab File: VN054965.D

Acq: 5 Apr 2019 10:53

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion: 50 Resp: 5907

Ion Ratio Lower Upper

50 100

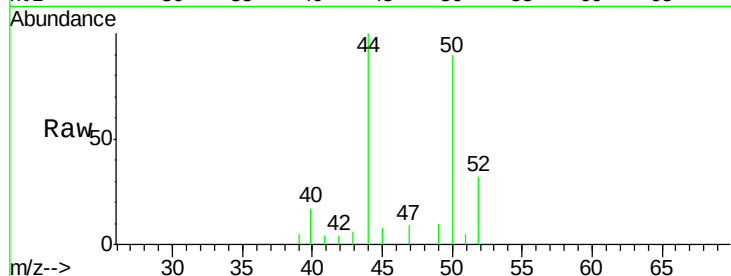
52 35.1 26.2 39.4

Manual Integrations

APPROVED

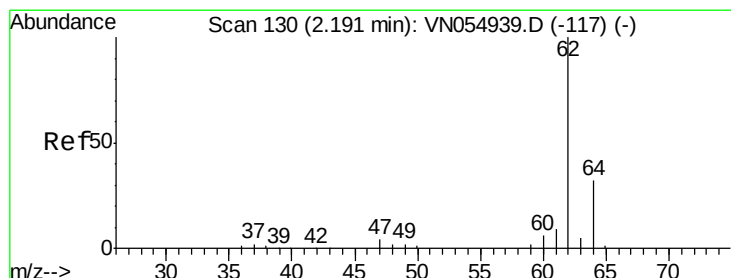
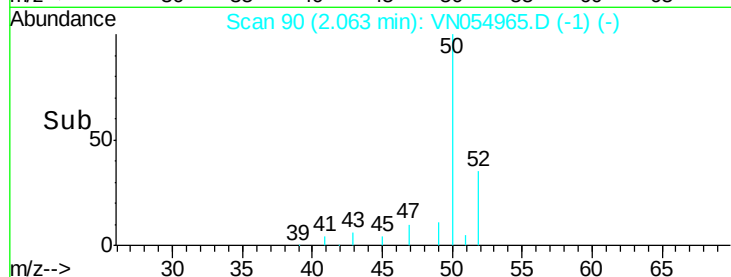
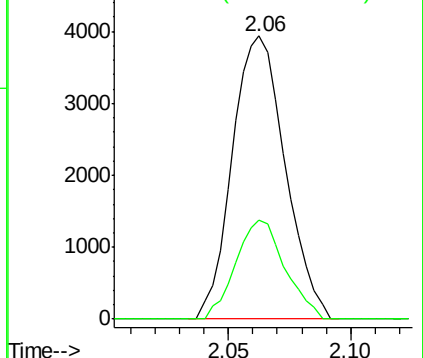
MMDadoda

4/8/2019 3:34:06 AM



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO



#4

Vinyl Chloride

Concen: 1.031 ug/l

RT: 2.19 min Scan# 130

Delta R.T. -0.00 min

Lab File: VN054965.D

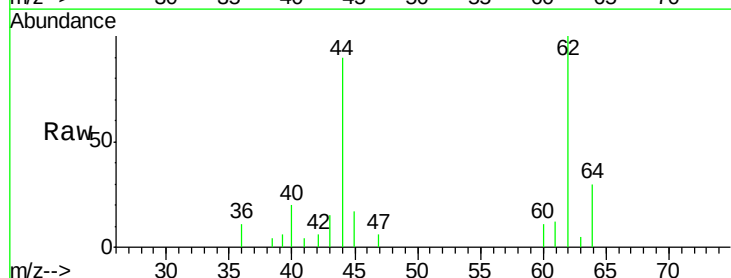
Acq: 5 Apr 2019 10:53

Tgt Ion: 62 Resp: 5620

Ion Ratio Lower Upper

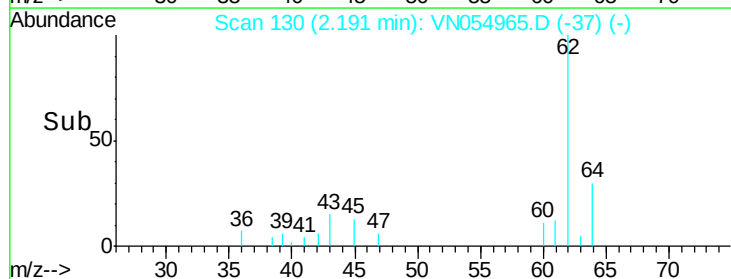
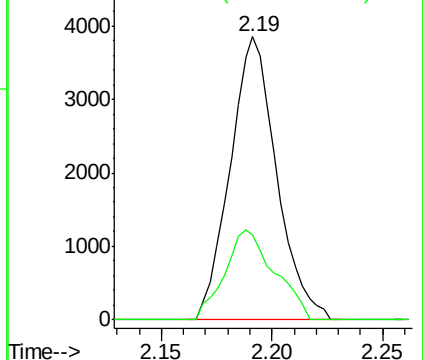
62 100

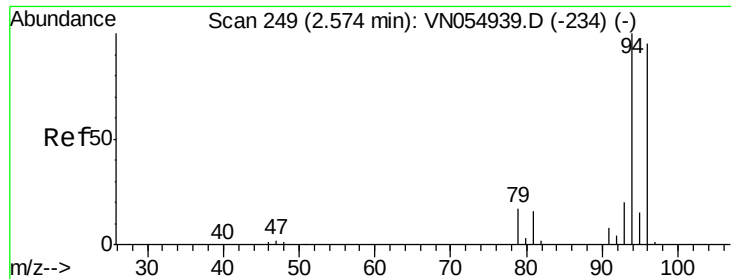
64 29.8 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO





#5

Bromomethane

Concen: 1.171 ug/l

RT: 2.57 min Scan# 249

Delta R.T. -0.00 min

Lab File: VN054965.D

Acq: 5 Apr 2019 10:53

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion: 94 Resp: 3644

Ion Ratio Lower Upper

94 100

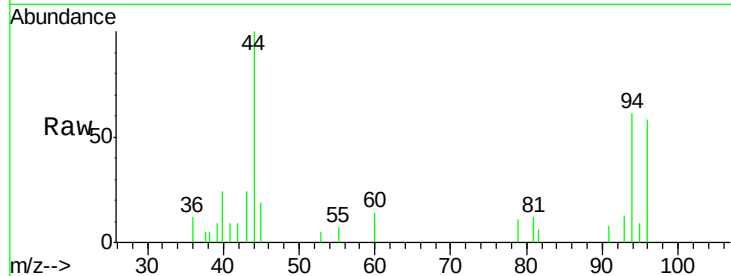
96 94.7 75.7 113.5

Manual Integrations

APPROVED

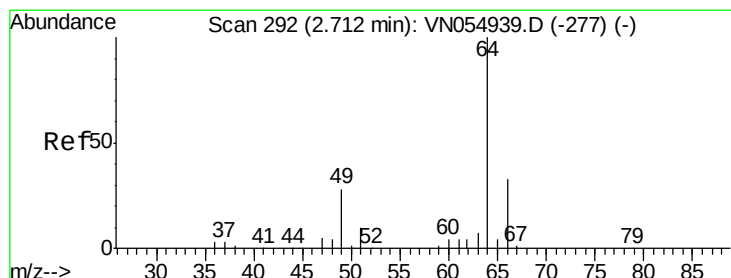
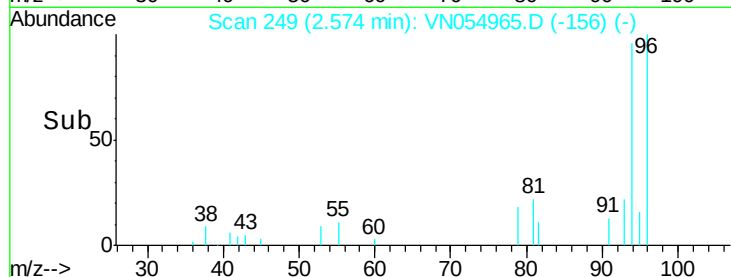
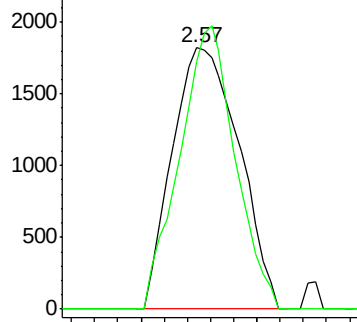
MMDadoda

4/8/2019 3:34:06 AM



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO



#6

Chloroethane

Concen: 0.946 ug/l

RT: 2.71 min Scan# 291

Delta R.T. -0.00 min

Lab File: VN054965.D

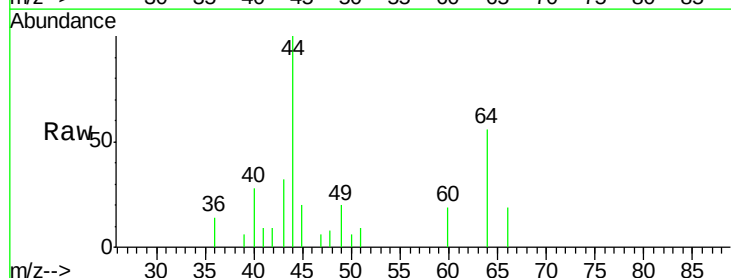
Acq: 5 Apr 2019 10:53

Tgt Ion: 64 Resp: 2875

Ion Ratio Lower Upper

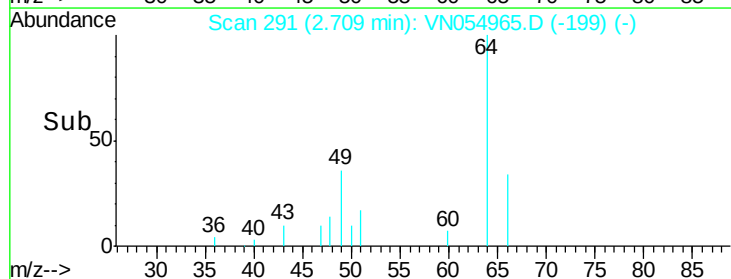
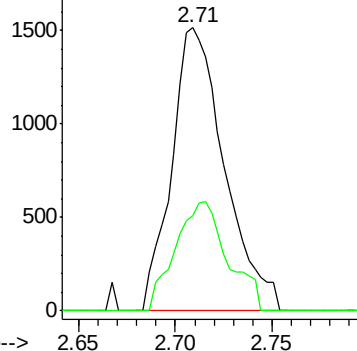
64 100

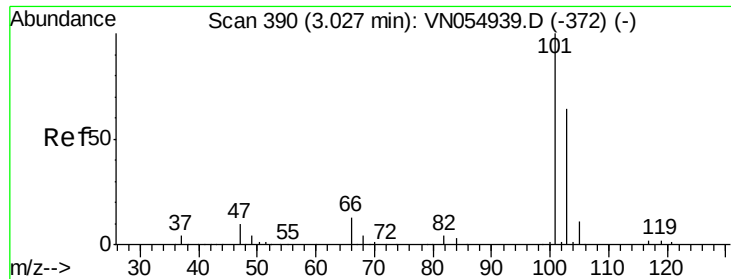
66 33.6 26.2 39.4



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO





#7

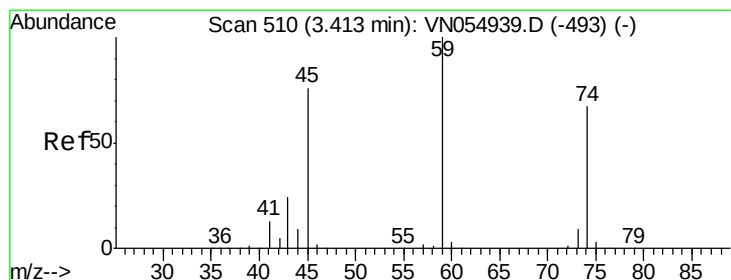
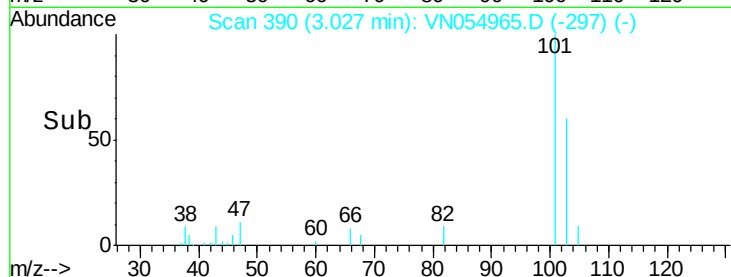
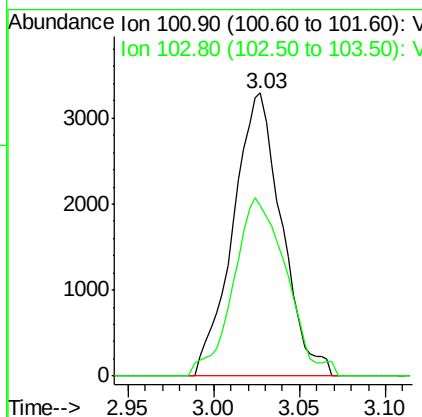
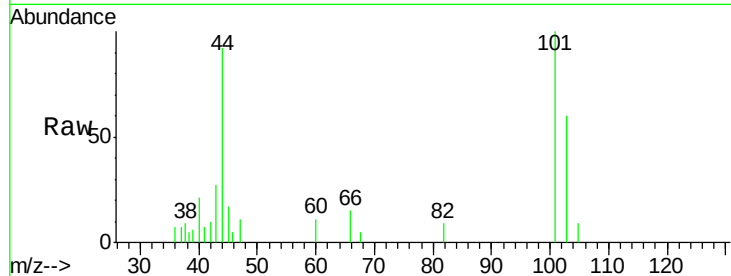
Trichlorofluoromethane
Concen: 0.982 ug/l
RT: 3.03 min Scan# 390
Delta R.T. -0.00 min
Lab File: VN054965.D
Acq: 5 Apr 2019 10:53

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

Tot Ion:101 Resp: 6499
Ion Ratio Lower Upper
101 100
103 60.4 51.3 76.9

Manual Integrations
APPROVED

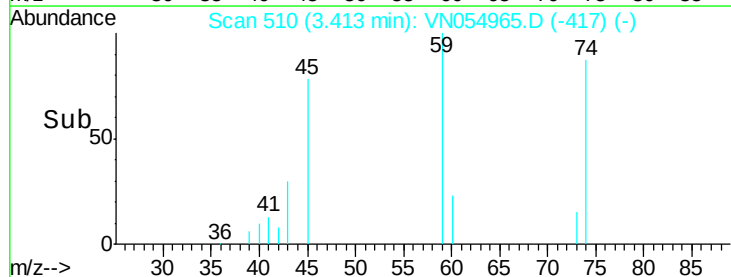
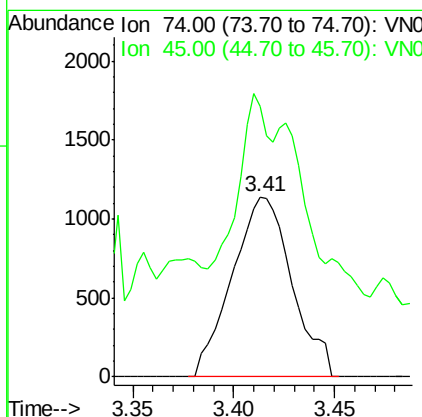
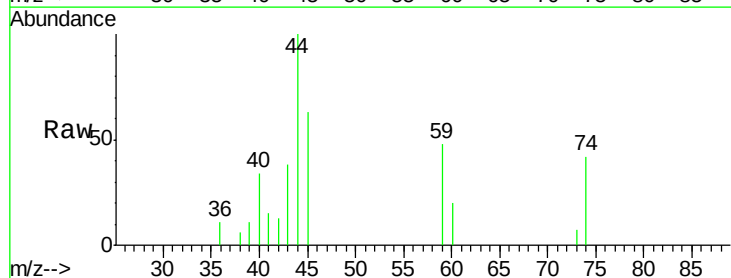
MMDadoda
4/8/2019 3:34:06 AM

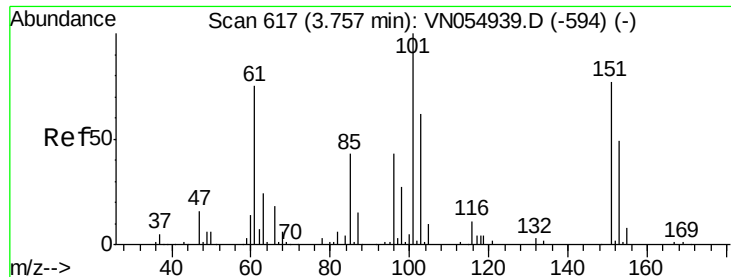


#8

Diethyl Ether
Concen: 1.118 ug/l
RT: 3.41 min Scan# 510
Delta R.T. -0.00 min
Lab File: VN054965.D
Acq: 5 Apr 2019 10:53

Tgt Ion: 74 Resp: 2356
Ion Ratio Lower Upper
74 100
45 49.2 56.3 168.9#





#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.053 ug/l

RT: 3.76 min Scan# 619

Delta R.T. 0.01 min

Lab File: VN054965.D

Acq: 5 Apr 2019 10:53

Instrument :

MSVOA_N

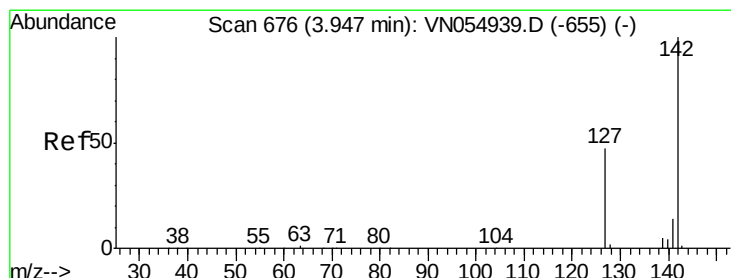
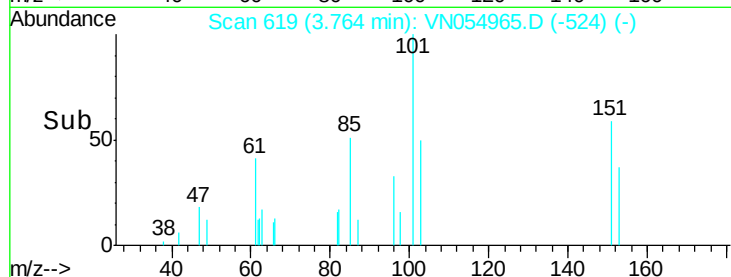
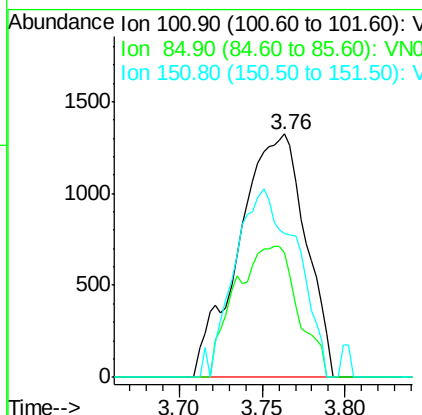
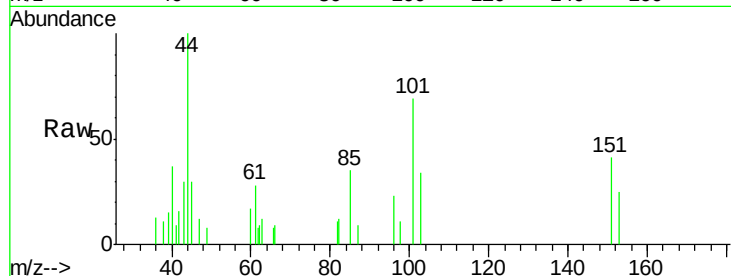
ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion:	101	Resp:	3693
Ion	Ratio	Lower	Upper
101	100		
85	50.7	36.2	54.2
151	72.5	63.4	95.0

Manual Integrations
APPROVED

MMDadoda
4/8/2019 3:34:06 AM



#10

Methyl Iodide

Concen: 0.833 ug/l m

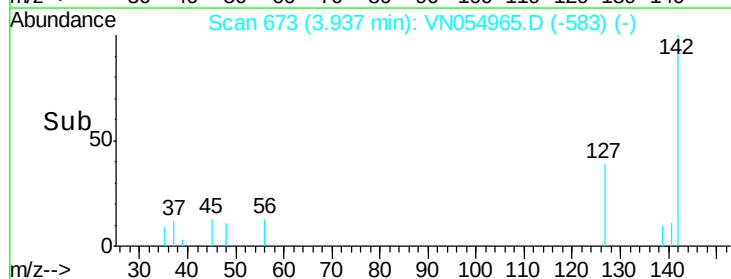
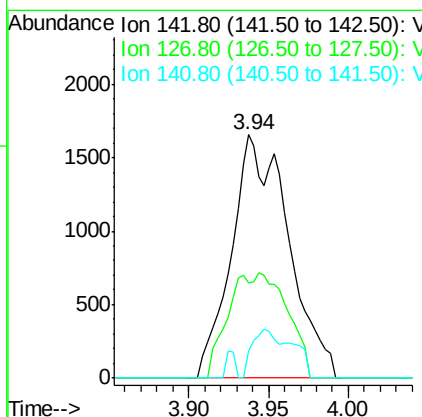
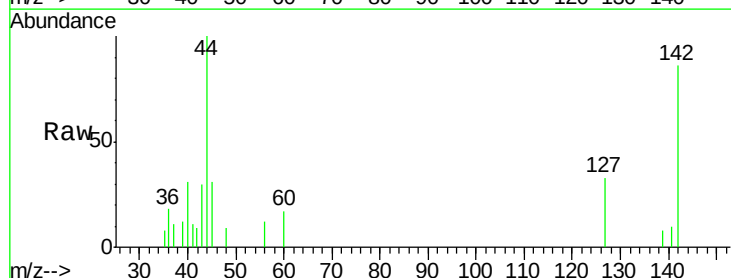
RT: 3.94 min Scan# 673

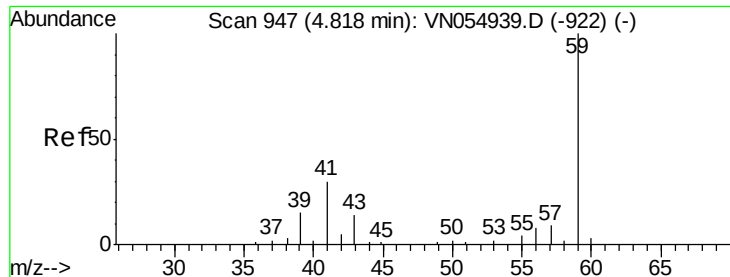
Delta R.T. -0.01 min

Lab File: VN054965.D

Acq: 5 Apr 2019 10:53

Tgt Ion:	142	Resp:	4119
Ion	Ratio	Lower	Upper
142	100		
127	17.7	38.0	57.0#
141	14.0	11.7	17.5





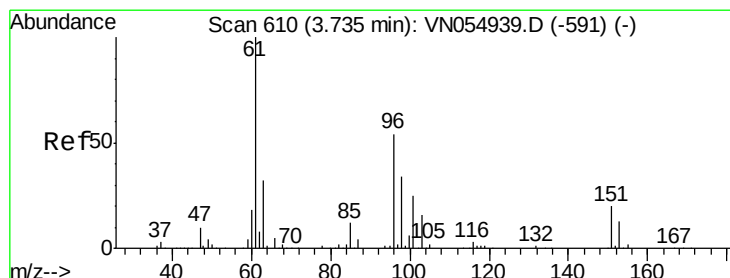
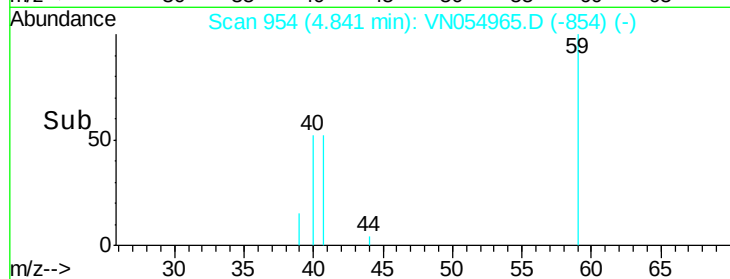
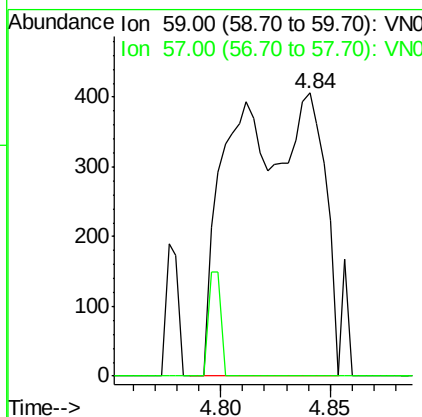
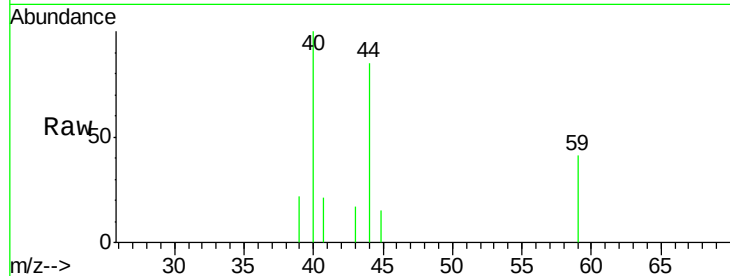
#11
Tert butyl alcohol
Concen: 4.216 ug/l m
RT: 4.84 min Scan# 954
Delta R.T. 0.02 min
Lab File: VN054965.D
Acq: 5 Apr 2019 10:53

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

Tot Ion: 59 Resp: 1132
Ion Ratio Lower Upper
59 100
57 5.1 5.0 7.4

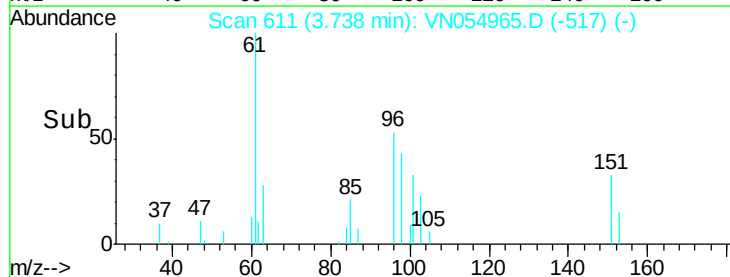
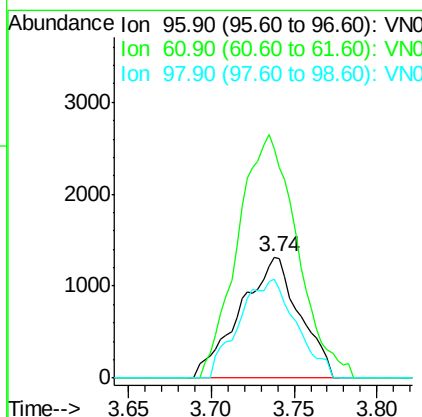
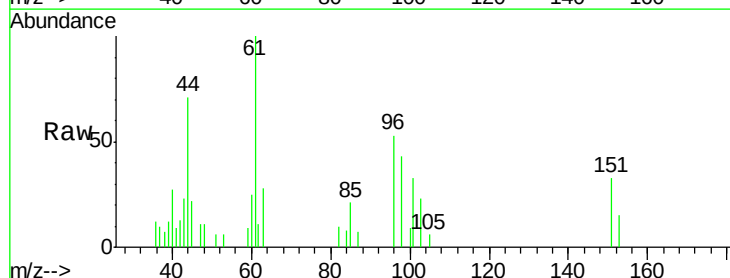
Manual Integrations
APPROVED

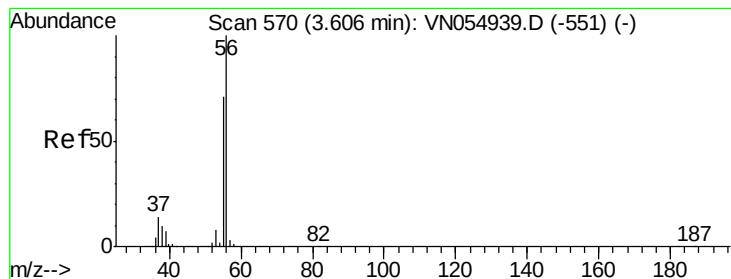
MMDadoda
4/8/2019 3:34:06 AM



#12
1,1-Dichloroethene
Concen: 0.942 ug/l
RT: 3.74 min Scan# 611
Delta R.T. 0.00 min
Lab File: VN054965.D
Acq: 5 Apr 2019 10:53

Tgt Ion: 96 Resp: 3277
Ion Ratio Lower Upper
96 100
61 189.3 148.2 222.2
98 81.8 50.2 75.4#





#13

Acrolein

Concen: 4.767 ug/l

RT: 3.60 min Scan# 569

Delta R.T. -0.00 min

Lab File: VN054965.D

Acq: 5 Apr 2019 10:53

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion: 56 Resp: 250

Ion Ratio Lower Upper

56 100

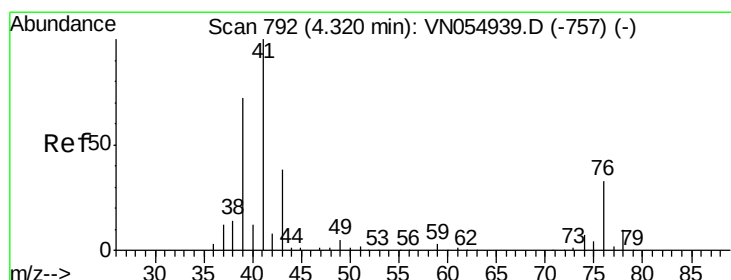
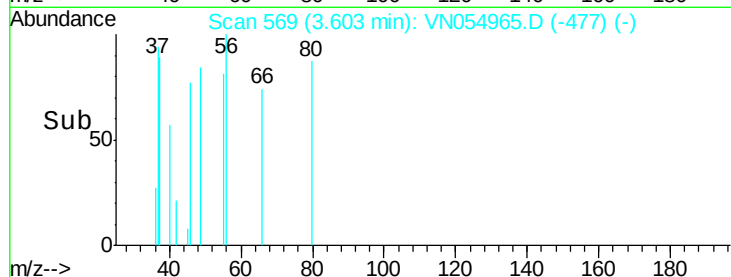
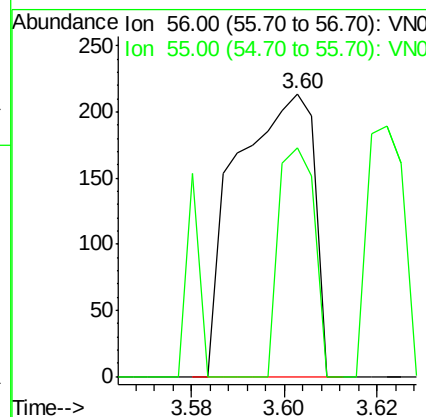
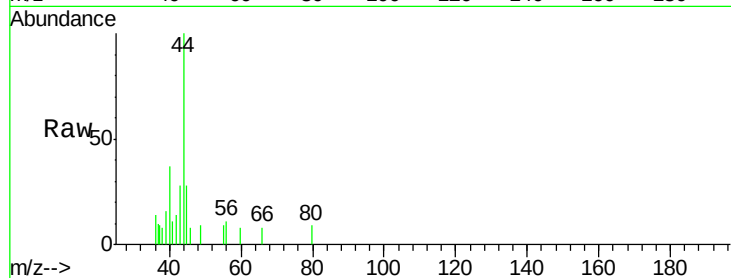
55 37.6 58.6 87.8#

Manual Integrations

APPROVED

MMDadoda

4/8/2019 3:34:06 AM



#14

Allyl chloride

Concen: 1.017 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.01 min

Lab File: VN054965.D

Acq: 5 Apr 2019 10:53

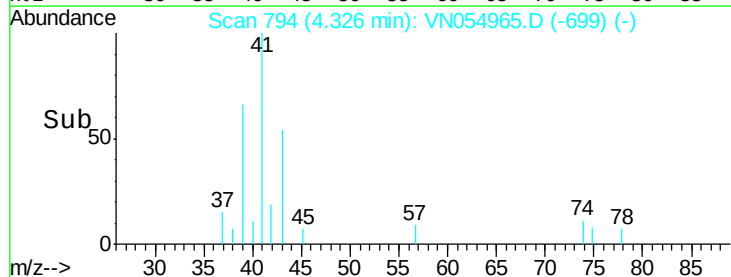
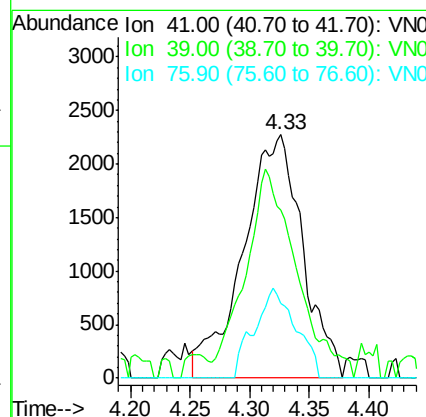
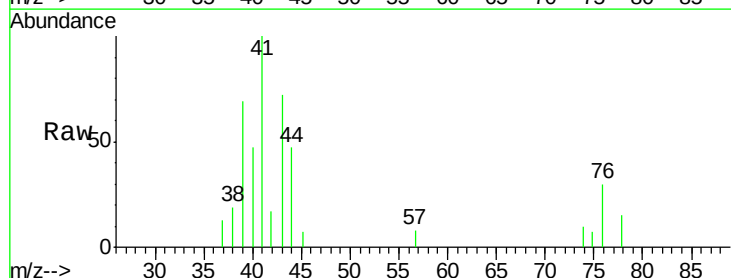
Tgt Ion: 41 Resp: 7850

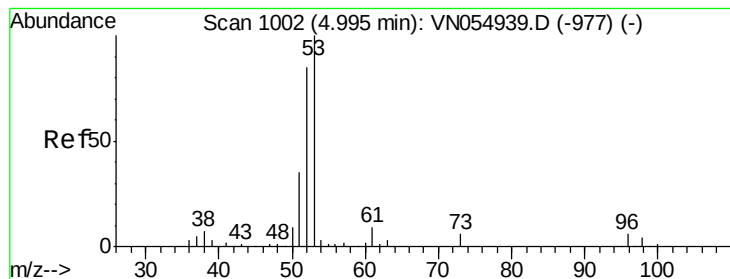
Ion Ratio Lower Upper

41 100

39 74.3 55.4 83.2

76 25.9 23.8 35.8





#15

Acrylonitrile

Concen: 4.910 ug/l m

RT: 5.00 min Scan# 1003

Delta R.T. 0.00 min

Lab File: VN054965.D

Acq: 5 Apr 2019 10:53

Instrument :

MSVOA_N

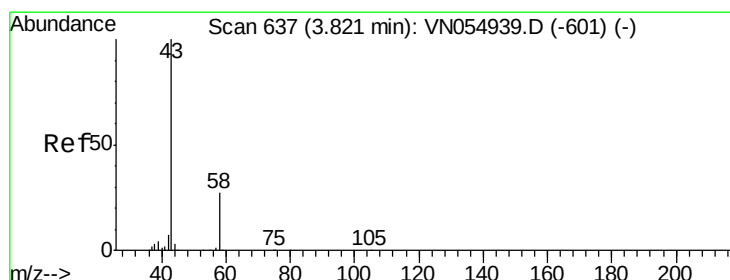
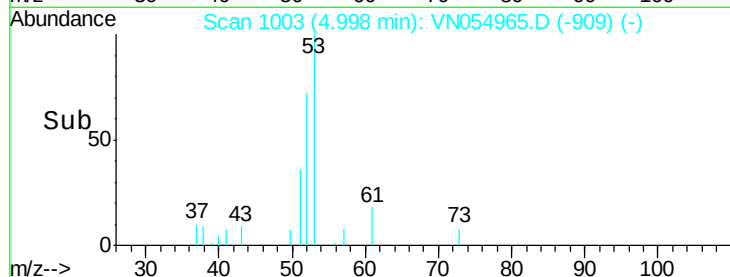
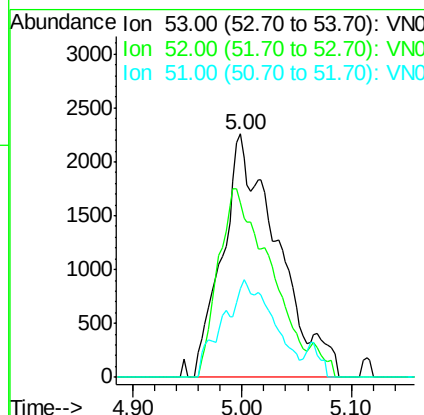
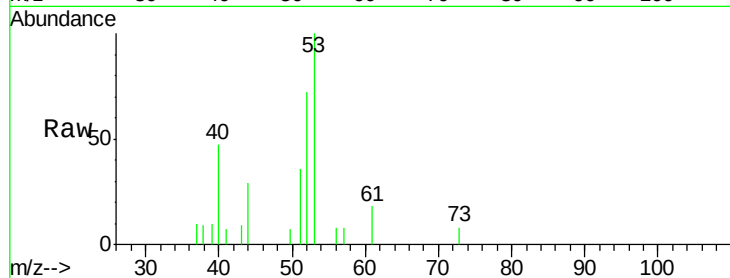
ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion:	53	Resp:	7905
Ion	Ratio	Lower	Upper
53	100		
52	72.7	66.4	99.6
51	26.3	29.5	44.3#

Manual Integrations
APPROVED

MMDadoda
4/8/2019 3:34:06 AM



#16

Acetone

Concen: Below Cal

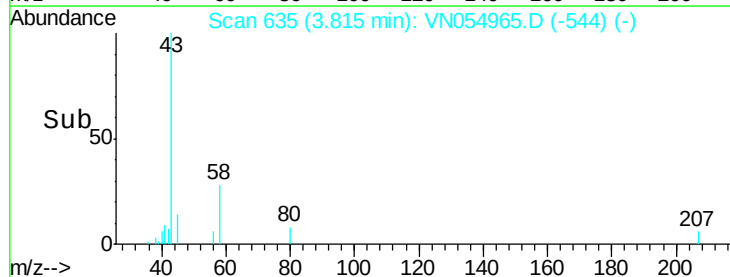
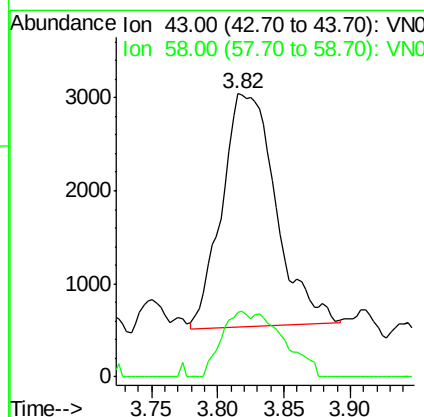
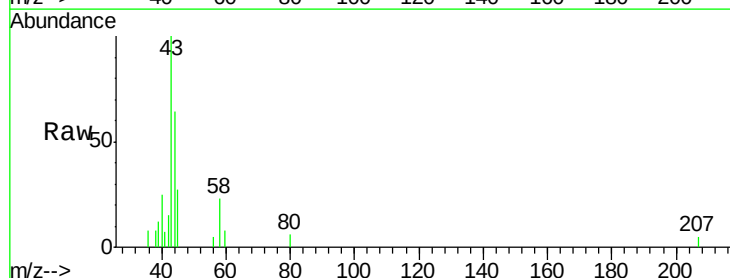
RT: 3.82 min Scan# 635

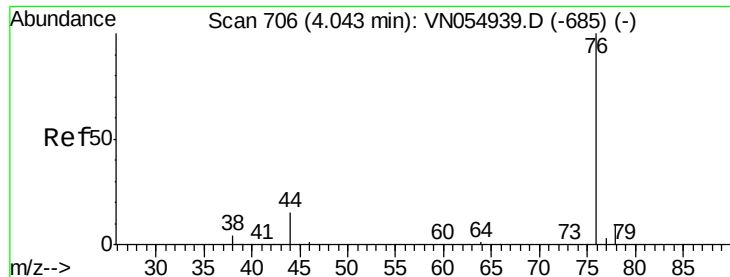
Delta R.T. -0.01 min

Lab File: VN054965.D

Acq: 5 Apr 2019 10:53

Tgt Ion:	43	Resp:	7061
Ion	Ratio	Lower	Upper
43	100		
58	28.0	21.7	32.5





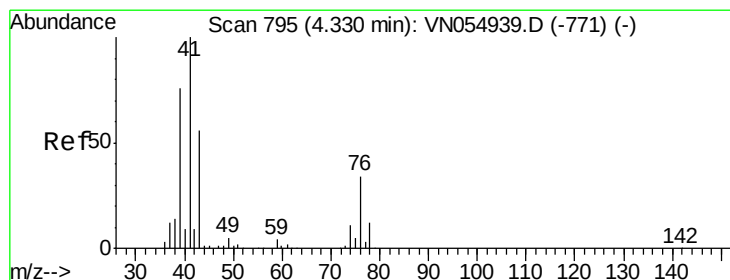
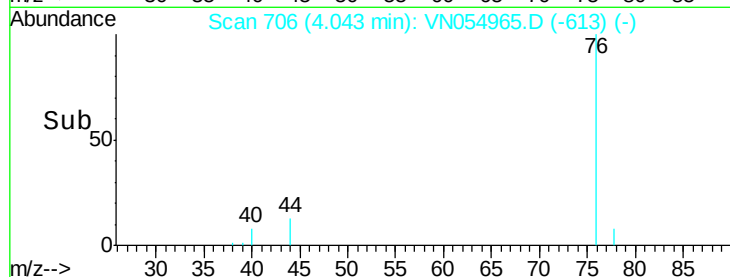
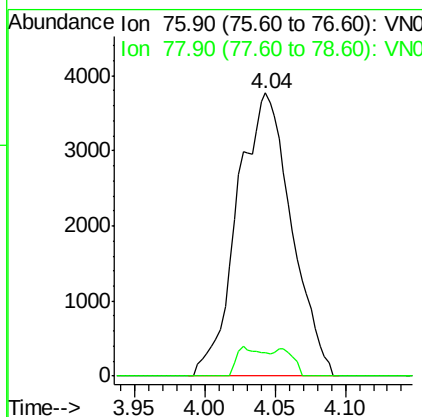
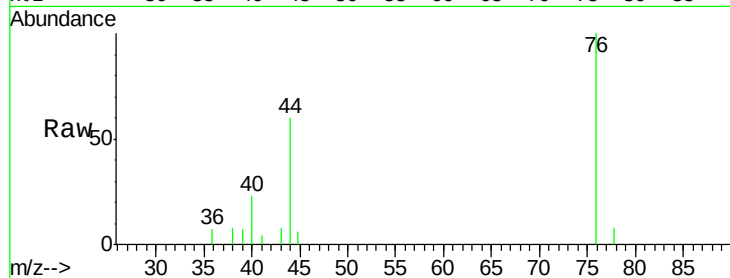
#17
Carbon Disulfide
Concen: 0.914 ug/l
RT: 4.04 min Scan# 706
Delta R.T. -0.00 min
Lab File: VN054965.D
Acq: 5 Apr 2019 10:53

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

Tot Ion: 76 Resp: 10117
Ion Ratio Lower Upper
76 100
78 8.1 7.1 10.7

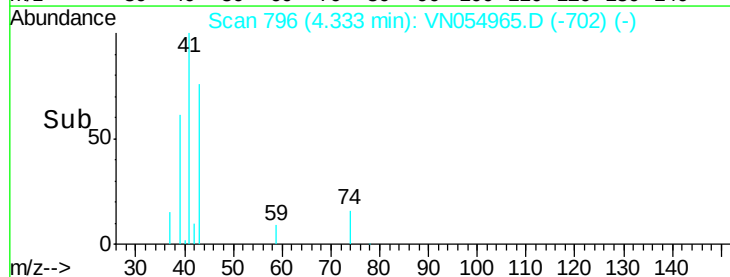
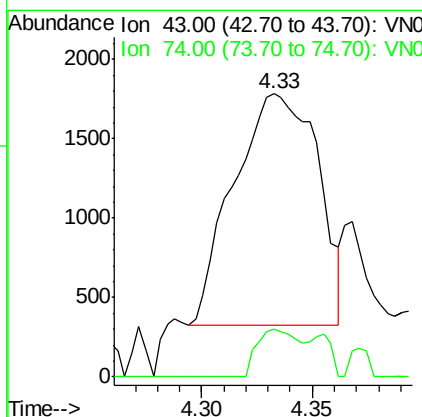
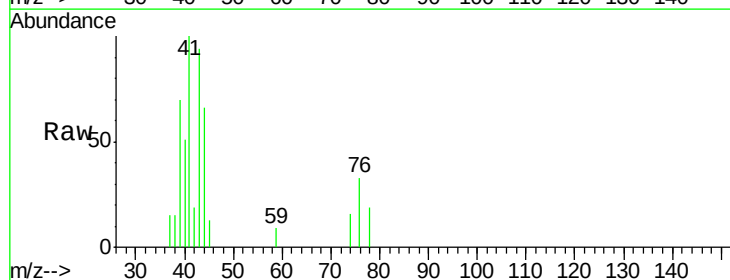
Manual Integrations
APPROVED

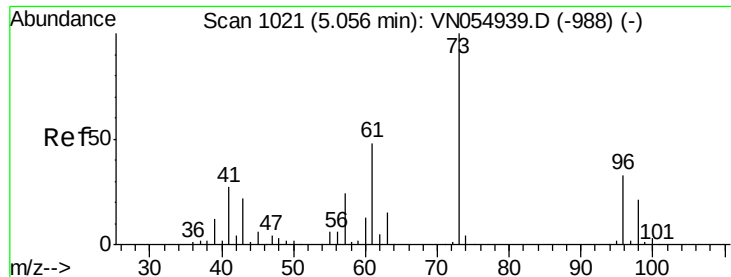
MMDadoda
4/8/2019 3:34:06 AM



#18
Methyl Acetate
Concen: Below Cal
RT: 4.33 min Scan# 796
Delta R.T. 0.00 min
Lab File: VN054965.D
Acq: 5 Apr 2019 10:53

Tgt Ion: 43 Resp: 3864
Ion Ratio Lower Upper
43 100
74 10.0 16.4 24.6#





#19

Methyl tert-butyl Ether

Concen: 0.939 ug/l

RT: 5.06 min Scan# 1023

Delta R.T. 0.01 min

Lab File: VN054965.D

Acq: 5 Apr 2019 10:53

Tot Ion: 73 Resp: 10592

Ion Ratio Lower Upper

73 100

57 24.5 19.5 29.3

Instrument :

MSVOA_N

ClientSampleId :

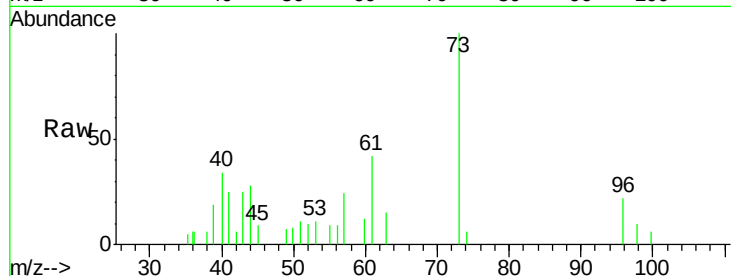
LOD-MDL-WATER-01-QT2-2019

Manual Integrations

APPROVED

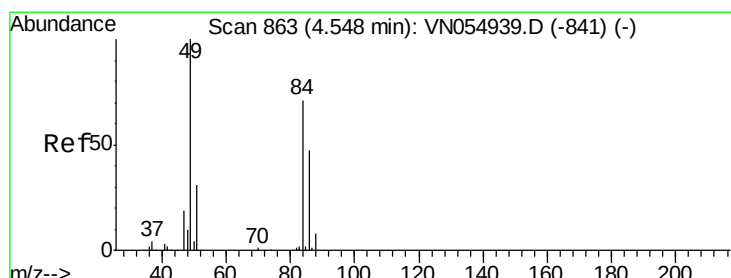
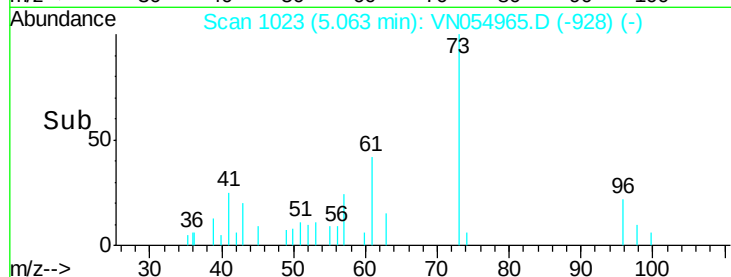
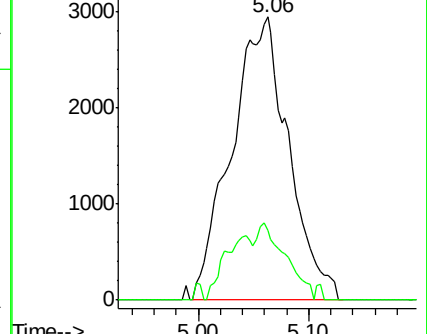
MMDadoda

4/8/2019 3:34:06 AM



Abundance Ion 73.00 (72.70 to 73.70): VN0

Ion 57.00 (56.70 to 57.70): VN0



#20

Methylene Chloride

Concen: 1.155 ug/l

RT: 4.54 min Scan# 862

Delta R.T. -0.00 min

Lab File: VN054965.D

Acq: 5 Apr 2019 10:53

Tgt Ion: 84 Resp: 5576

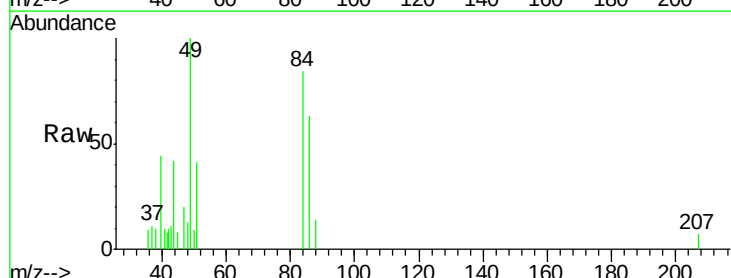
Ion Ratio Lower Upper

84 100

49 119.1 112.1 168.1

51 48.4 34.5 51.7

86 75.2 52.2 78.4

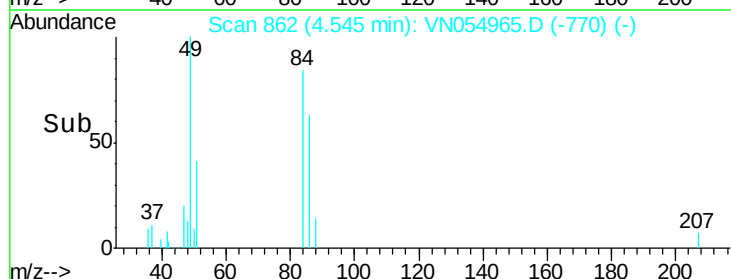
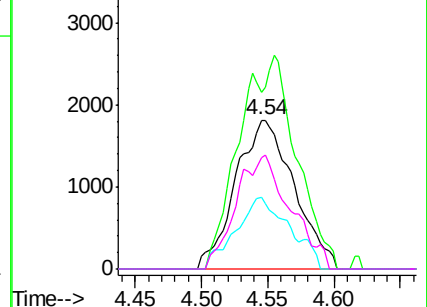


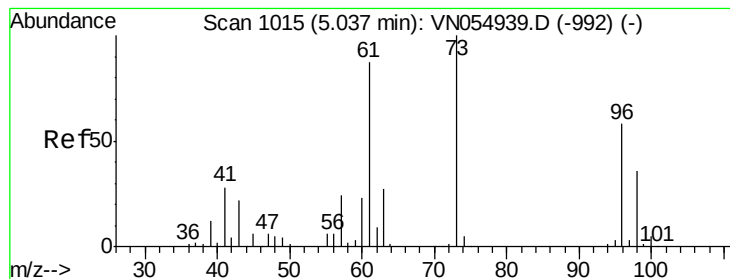
Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0





#21

trans-1,2-Dichloroethene

Concen: 0.809 ug/l

RT: 5.03 min Scan# 1013

Delta R.T. -0.01 min

Lab File: VN054965.D

Acq: 5 Apr 2019 10:53

Instrument :

MSVOA_N

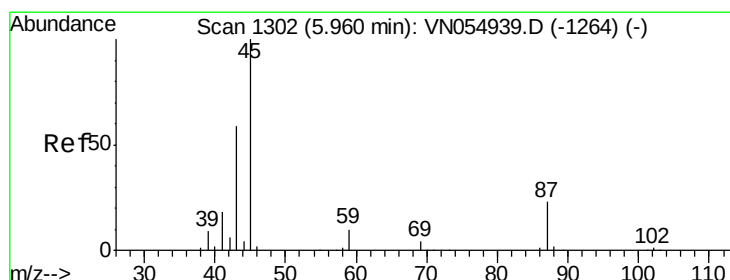
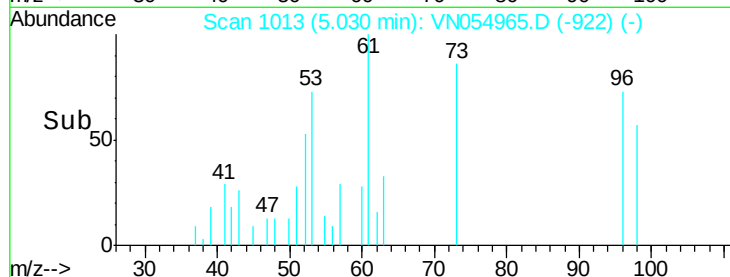
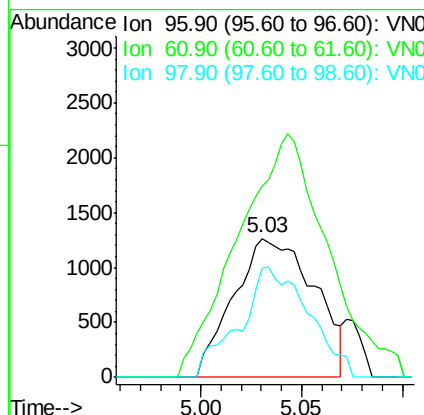
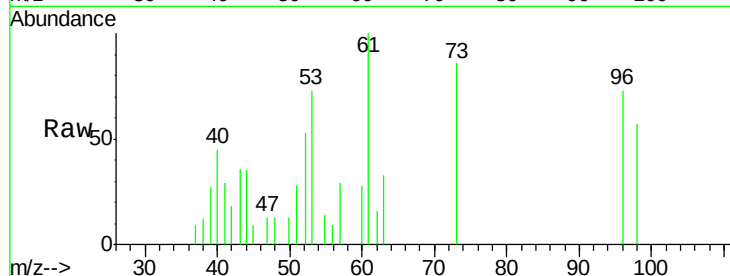
ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion:	96	Resp:	3514
Ion	Ratio	Lower	Upper
96	100		
61	116.4	120.1	180.1#
98	78.5	49.3	73.9#

Manual Integrations
APPROVED

MMDadoda
4/8/2019 3:34:06 AM



#22

Diisopropyl ether

Concen: 1.013 ug/l m

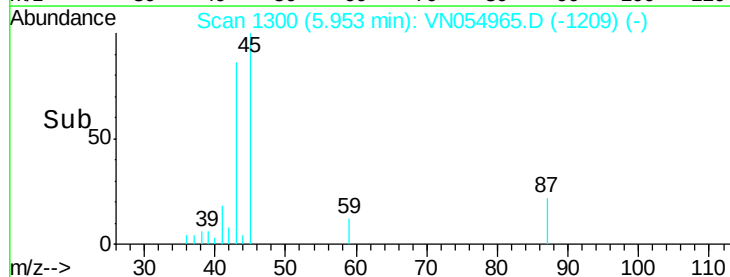
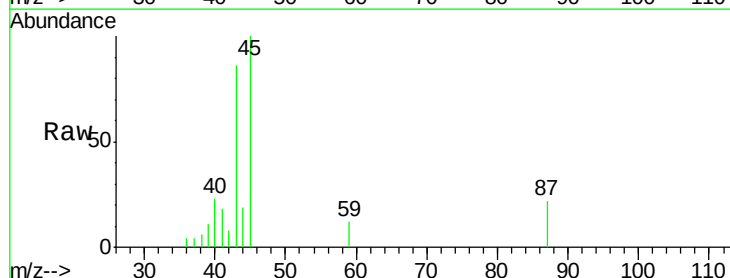
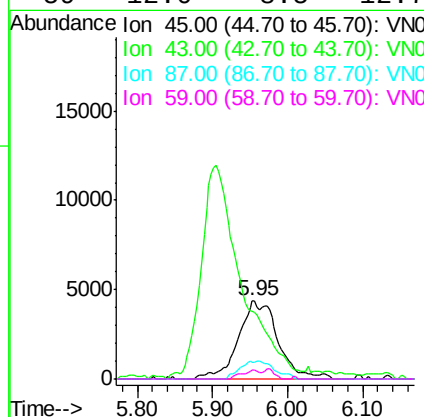
RT: 5.95 min Scan# 1300

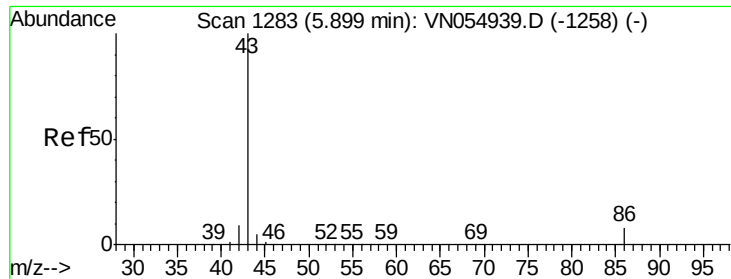
Delta R.T. -0.01 min

Lab File: VN054965.D

Acq: 5 Apr 2019 10:53

Tgt Ion:	45	Resp:	16053
Ion	Ratio	Lower	Upper
45	100		
43	85.8	46.9	70.3#
87	21.8	18.6	28.0
59	12.0	8.5	12.7





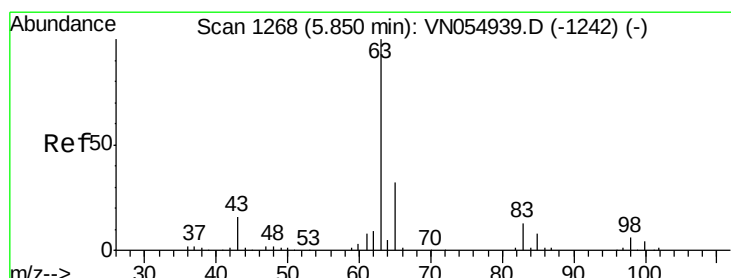
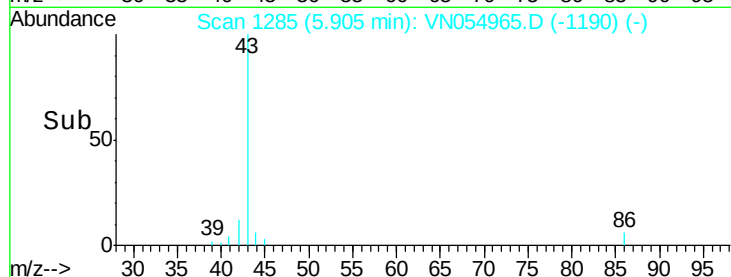
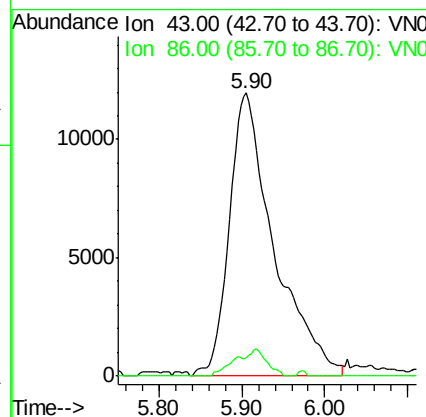
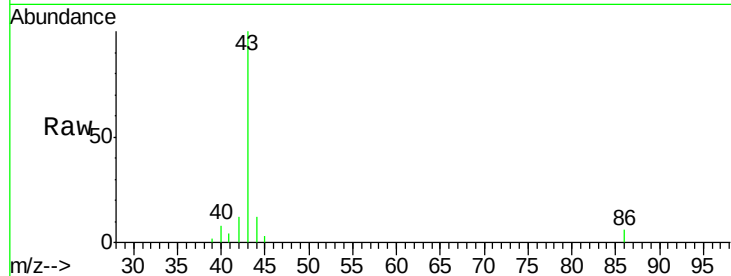
#23
 Vinyl Acetate
 Concen: 4.062 ug/l
 RT: 5.90 min Scan# 1285
 Delta R.T. 0.01 min
 Lab File: VN054965.D
 Acq: 5 Apr 2019 10:53

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

Tot Ion: 43 Resp: 44812
 Ion Ratio Lower Upper
 43 100
 86 6.5 6.7 10.1#

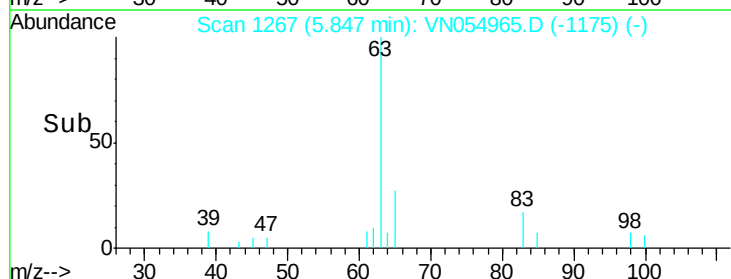
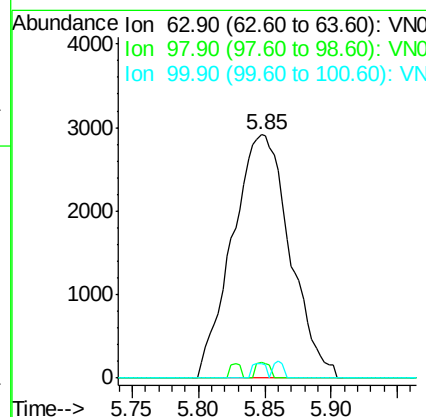
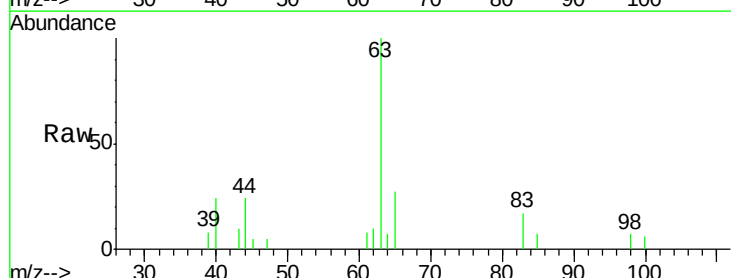
Manual Integrations
 APPROVED

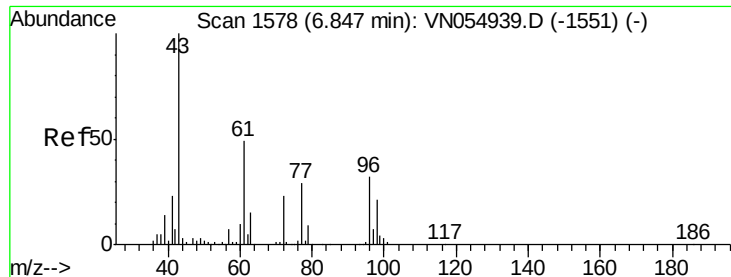
MMDadoda
 4/8/2019 3:34:06 AM



#24
 1,1-Dichloroethane
 Concen: 1.017 ug/l
 RT: 5.85 min Scan# 1267
 Delta R.T. -0.00 min
 Lab File: VN054965.D
 Acq: 5 Apr 2019 10:53

Tgt Ion: 63 Resp: 8795
 Ion Ratio Lower Upper
 63 100
 98 6.5 2.9 8.7
 100 6.0 2.1 6.2





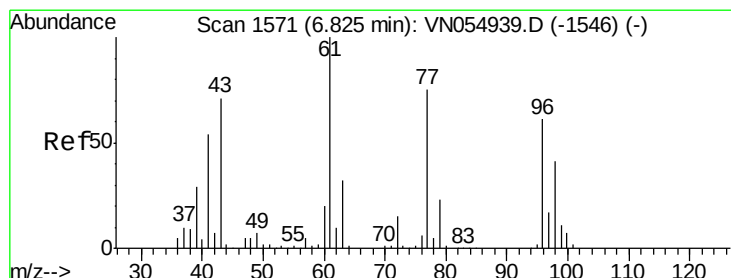
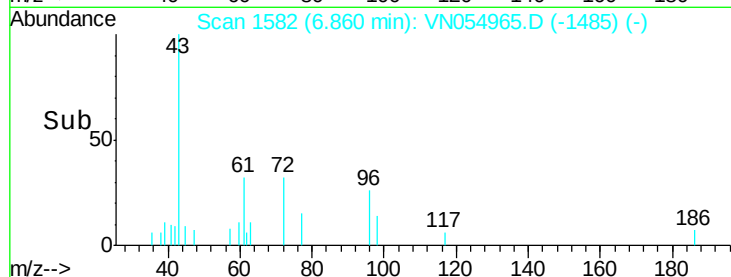
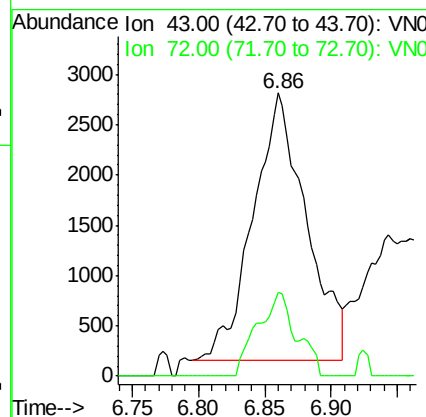
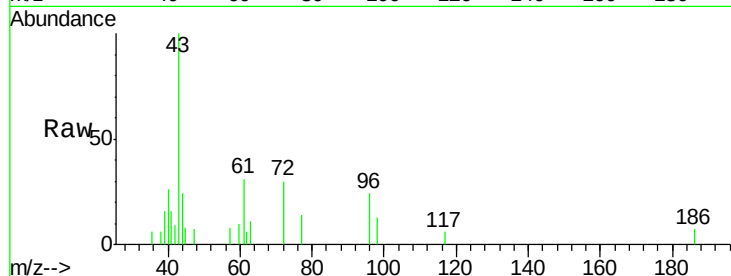
#25
2-Butanone
Concen: 3.818 ug/l
RT: 6.86 min Scan# 1582
Delta R.T. 0.01 min
Lab File: VN054965.D
Acq: 5 Apr 2019 10:53

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

Tot Ion: 43 Resp: 7458
Ion Ratio Lower Upper
43 100
72 31.6 18.3 27.5#

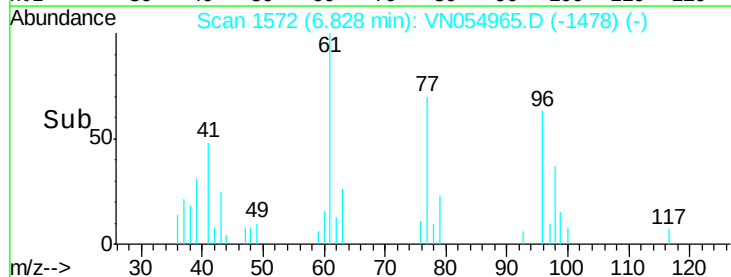
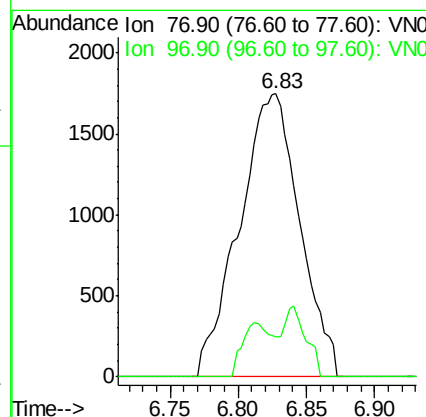
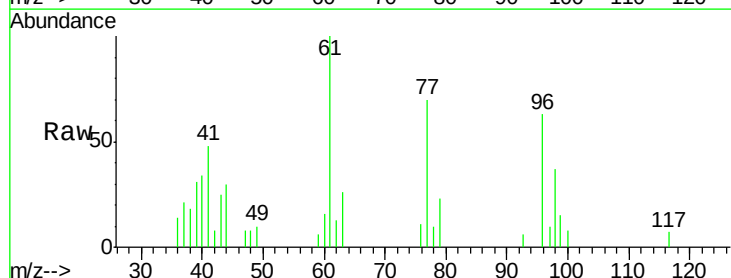
Manual Integrations
APPROVED

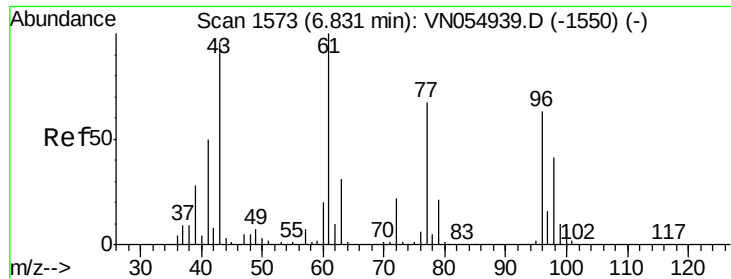
MMDadoda
4/8/2019 3:34:06 AM



#26
2,2-Dichloropropane
Concen: 0.888 ug/l
RT: 6.83 min Scan# 1572
Delta R.T. 0.00 min
Lab File: VN054965.D
Acq: 5 Apr 2019 10:53

Tgt Ion: 77 Resp: 5383
Ion Ratio Lower Upper
77 100
97 9.5 11.6 34.8#





#27

cis-1,2-Dichloroethene

Concen: 1.070 ug/l m

RT: 6.84 min Scan# 1577

Delta R.T. 0.01 min

Lab File: VN054965.D

Acq: 5 Apr 2019 10:53

Instrument :

MSVOA_N

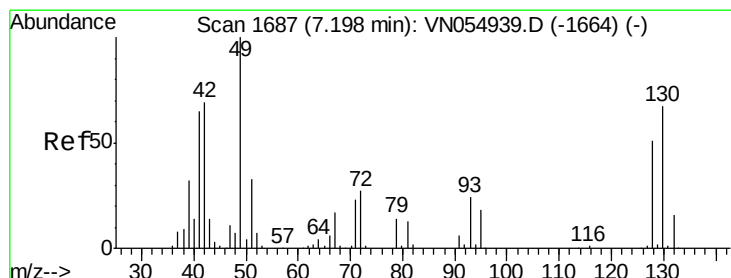
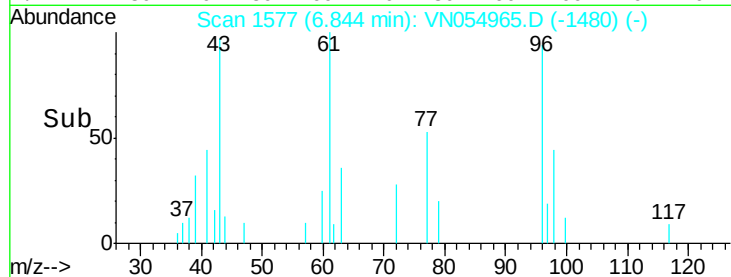
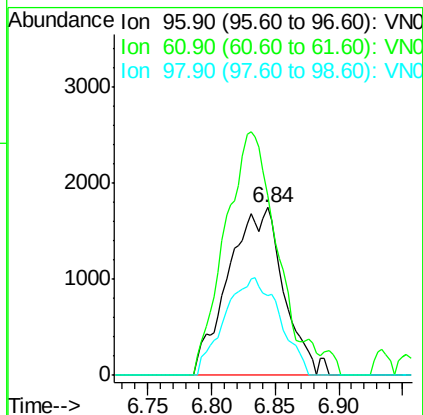
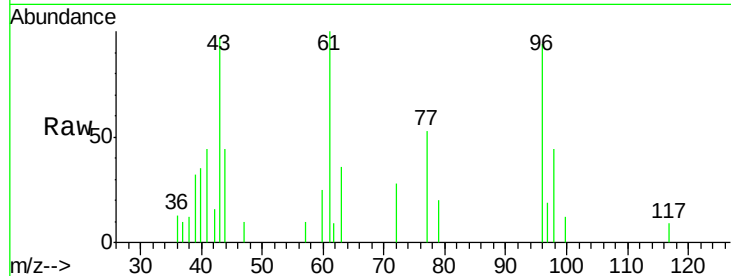
ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion:	96	Resp:	5271
Ion	Ratio	Lower	Upper
96	100		
61	131.3	0.0	316.2
98	57.7	0.0	129.6

Manual Integrations
APPROVED

MMDadoda
4/8/2019 3:34:06 AM



#28

Bromochloromethane

Concen: 1.007 ug/l m

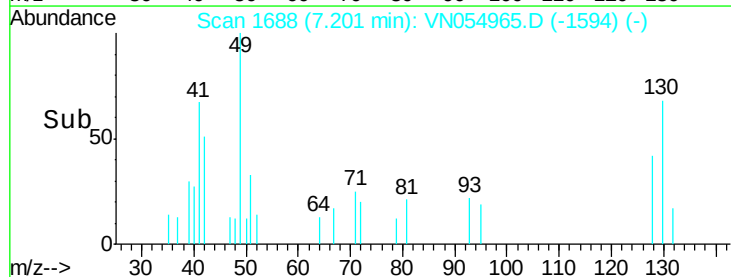
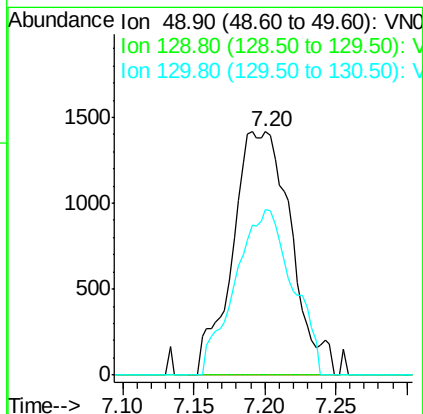
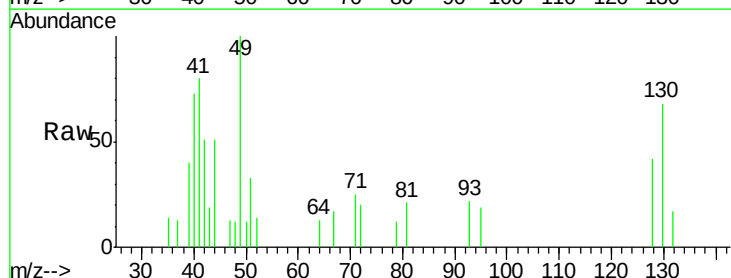
RT: 7.20 min Scan# 1688

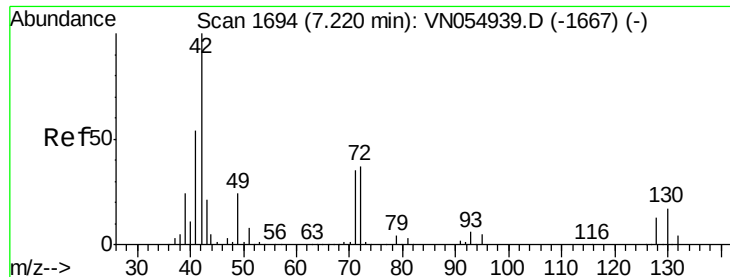
Delta R.T. 0.00 min

Lab File: VN054965.D

Acq: 5 Apr 2019 10:53

Tgt Ion:	49	Resp:	4080
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.8
130	66.3	53.1	79.7





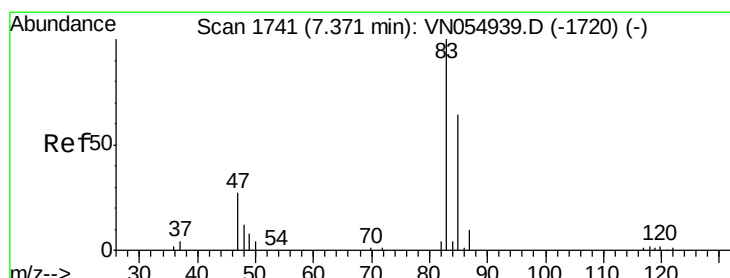
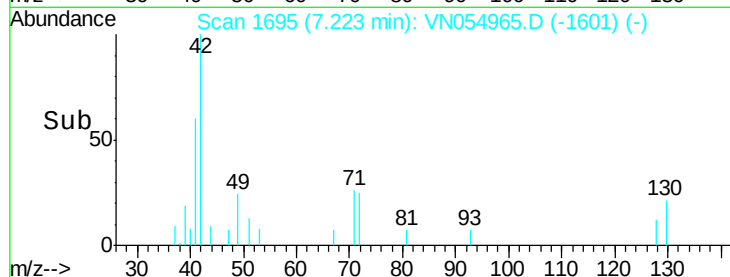
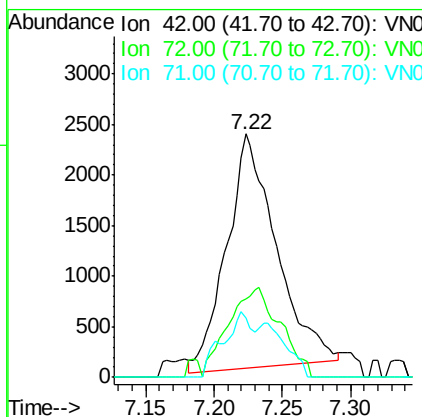
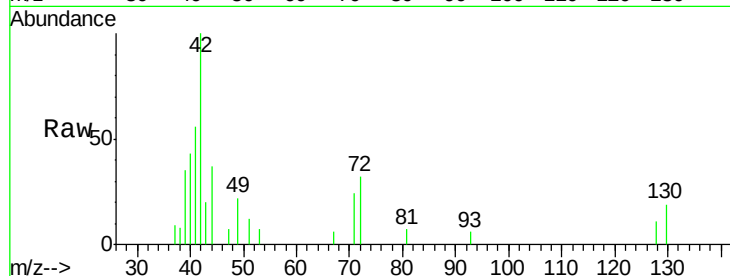
#29
Tetrahydrofuran
Concen: 4.561 ug/l
RT: 7.22 min Scan# 1695
Delta R.T. 0.00 min
Lab File: VN054965.D
Acq: 5 Apr 2019 10:53

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

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.2	29.3	43.9
71	16.6	27.8	41.6#

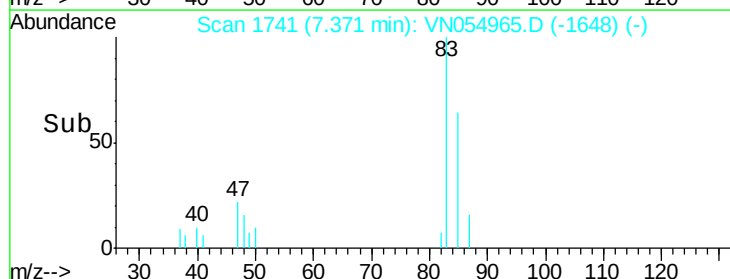
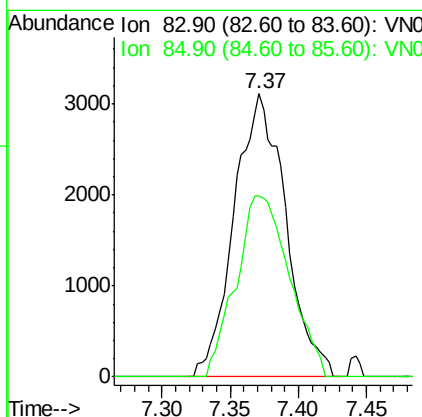
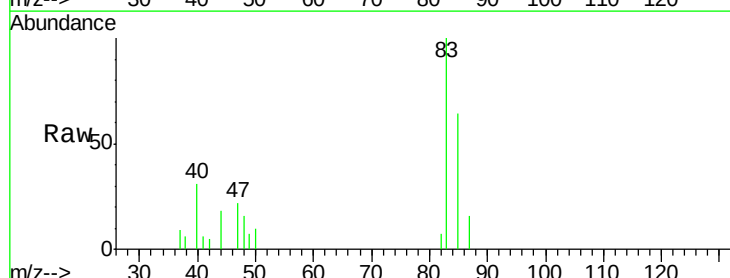
Manual Integrations
APPROVED

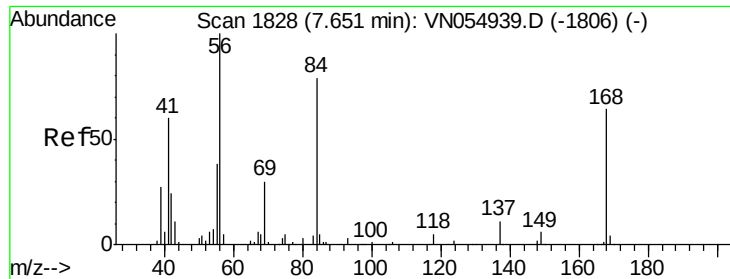
MMDadoda
4/8/2019 3:34:06 AM



#30
Chloroform
Concen: 0.994 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN054965.D
Acq: 5 Apr 2019 10:53

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.8	51.4	77.0





#31

Cyclohexane

Concen: 0.369 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN054965.D

Acq: 5 Apr 2019 10:53

Instrument :

MSVOA_N

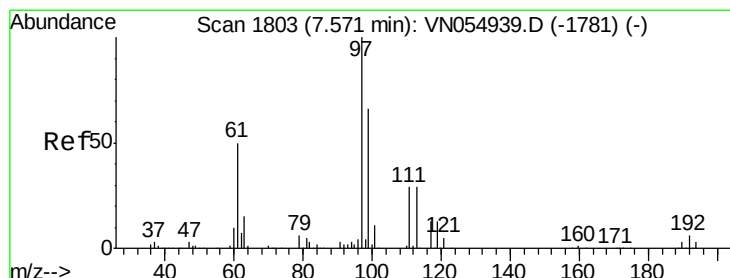
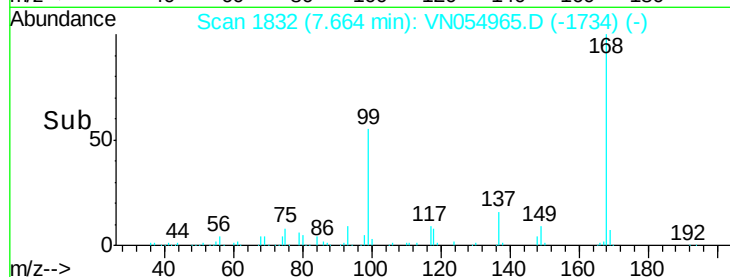
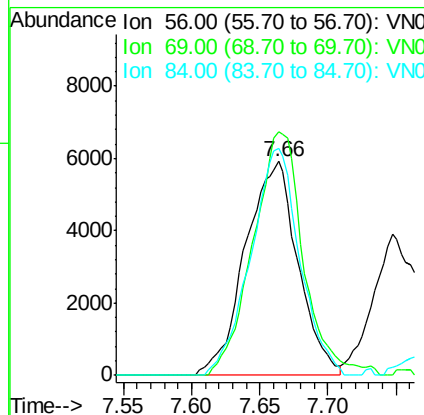
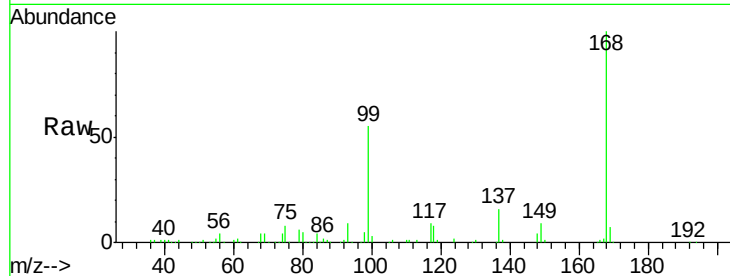
ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion:	56	Resp:	15874
Ion	Ratio	Lower	Upper
56	100		
69	113.9	23.8	35.6#
84	106.3	61.8	92.8#

Manual Integrations
APPROVED

MMDadoda
4/8/2019 3:34:06 AM



#32

1,1,1-Trichloroethane

Concen: 0.968 ug/l

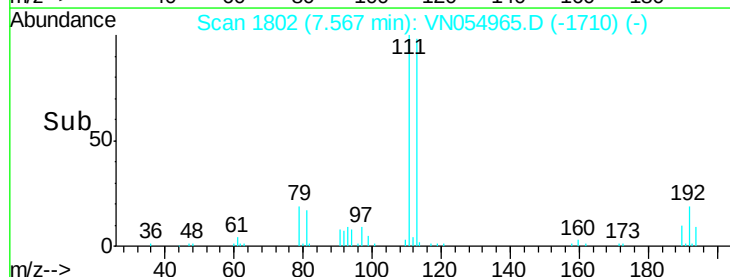
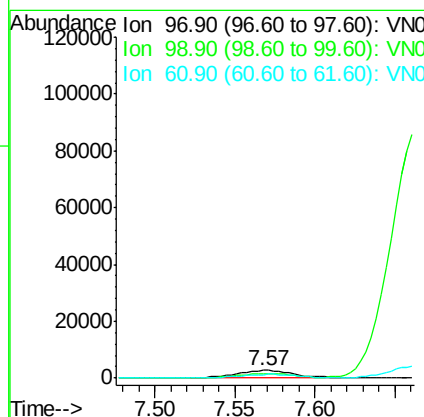
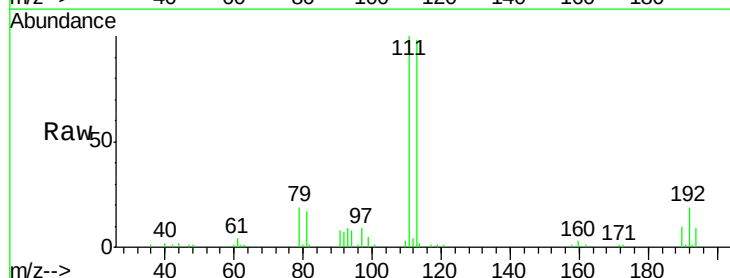
RT: 7.57 min Scan# 1802

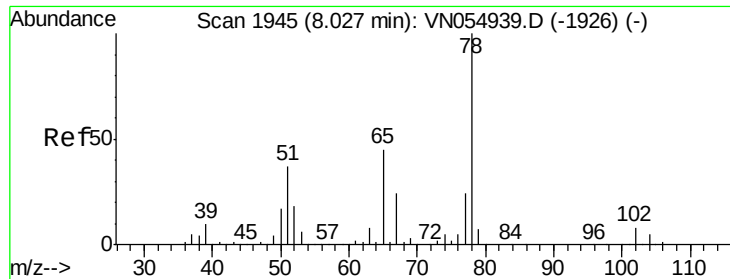
Delta R.T. -0.00 min

Lab File: VN054965.D

Acq: 5 Apr 2019 10:53

Tgt Ion:	97	Resp:	6695
Ion	Ratio	Lower	Upper
97	100		
99	0.0	52.1	78.1#
61	50.8	39.6	59.4





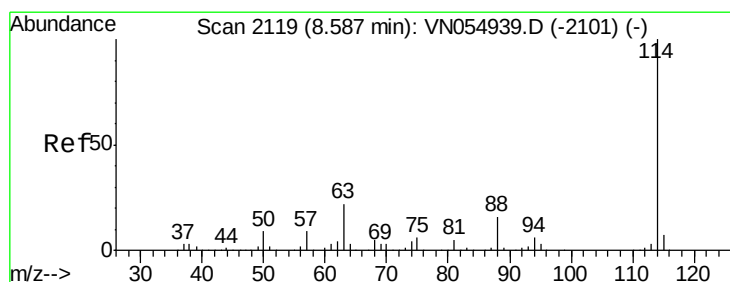
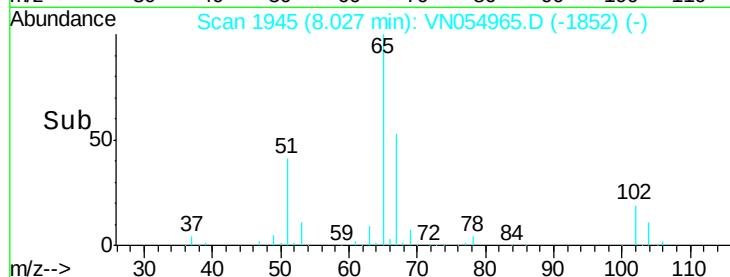
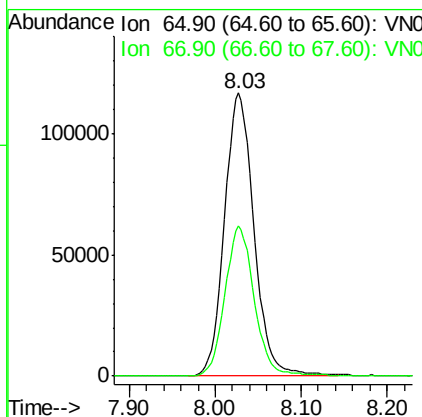
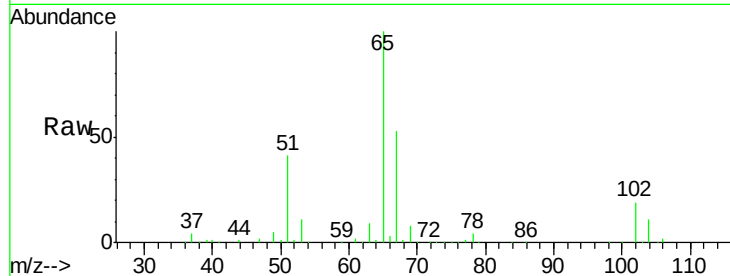
#33
 1,2-Dichloroethane-d4
 Concen: 53.454 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN054965.D
 Acq: 5 Apr 2019 10:53

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

Tot Ion	Ratio	Resp	Lower	Upper
65	100	278100		
67	52.9	0.0	105.6	

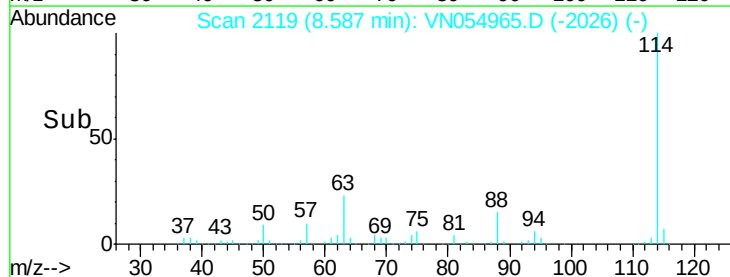
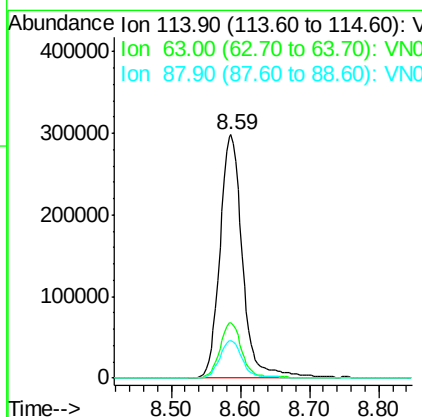
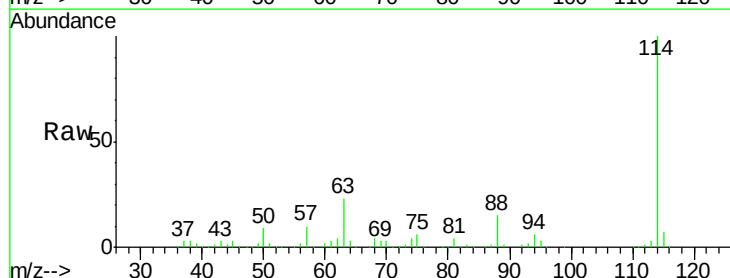
Manual Integrations
 APPROVED

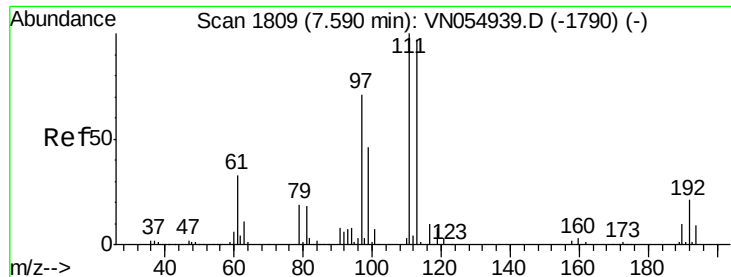
MMDadoda
 4/8/2019 3:34:06 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054965.D
 Acq: 5 Apr 2019 10:53

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	678768		
63	22.5	0.0	44.6	
88	15.5	0.0	32.0	





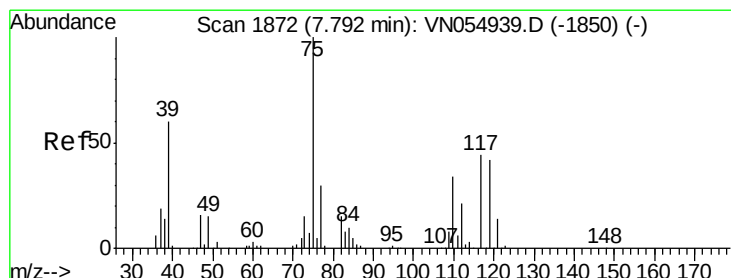
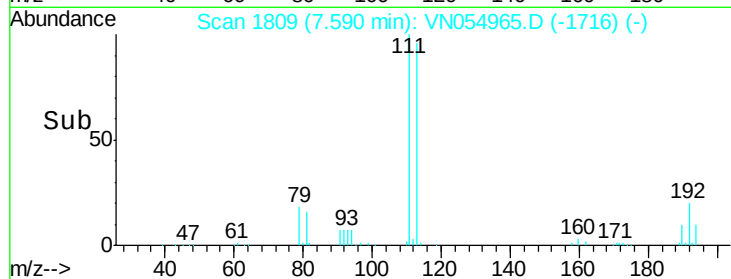
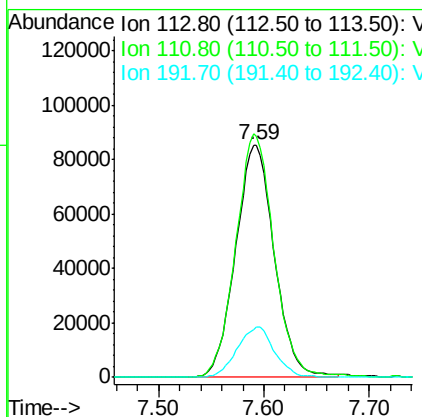
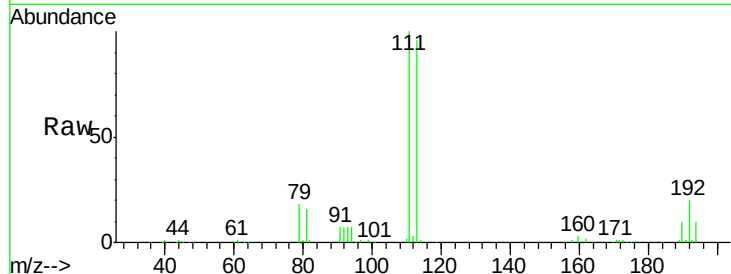
#35
 Dibromofluoromethane
 Concen: 49.305 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN054965.D
 Acq: 5 Apr 2019 10:53

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

Tot Ion	Ratio	Resp	Lower	Upper
113	100	217851		
111	103.5	81.0	121.4	
192	21.2	16.5	24.7	

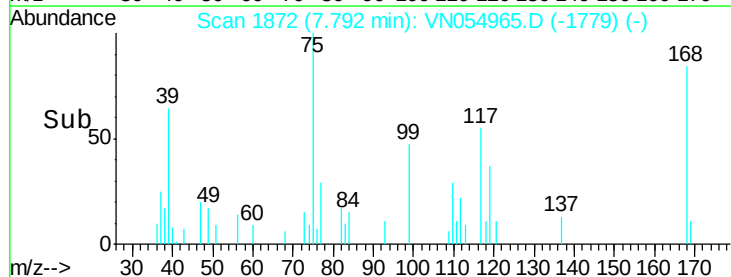
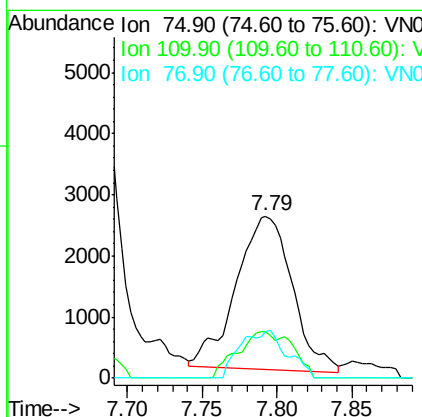
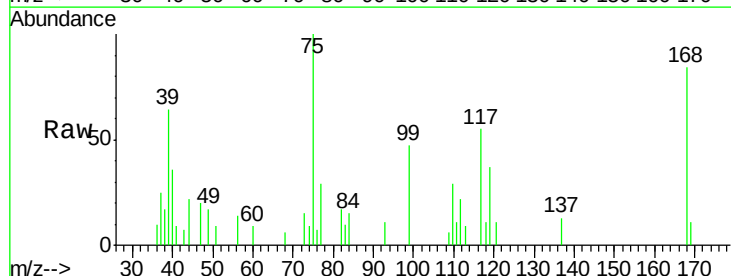
Manual Integrations
 APPROVED

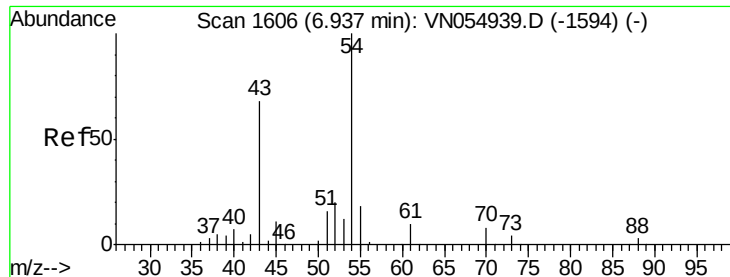
MMDadoda
 4/8/2019 3:34:06 AM



#36
 1,1-Dichloropropene
 Concen: 0.975 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. -0.00 min
 Lab File: VN054965.D
 Acq: 5 Apr 2019 10:53

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	6560		
110	29.5	17.0	50.9	
77	25.8	25.3	37.9	





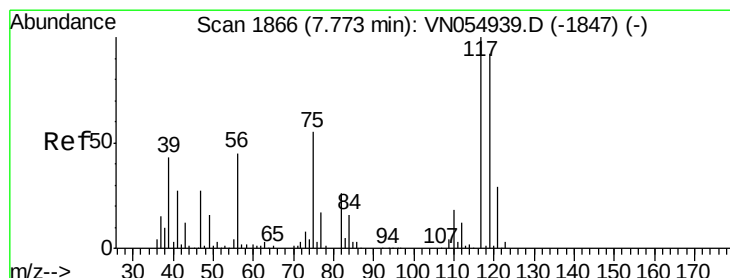
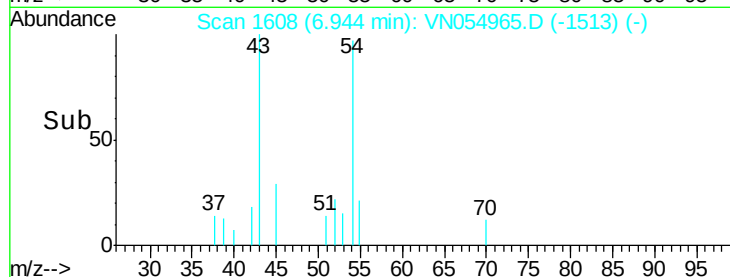
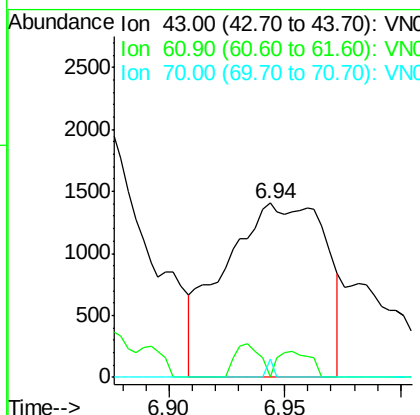
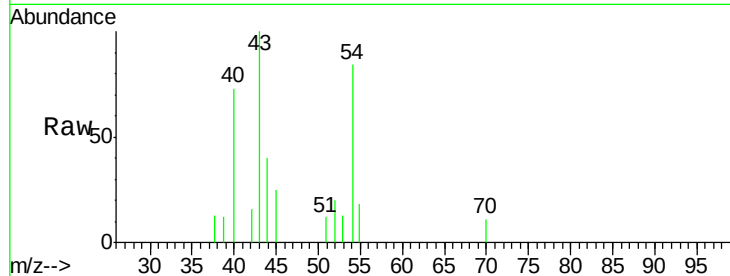
#37
Ethyl Acetate
Concen: 0.929 ug/l m
RT: 6.94 min Scan# 1608
Delta R.T. 0.01 min
Lab File: VN054965.D
Acq: 5 Apr 2019 10:53

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

Tot Ion	Ratio	Lower	Upper
43	100		
61	0.0	10.3	15.5#
70	0.7	7.0	10.4#

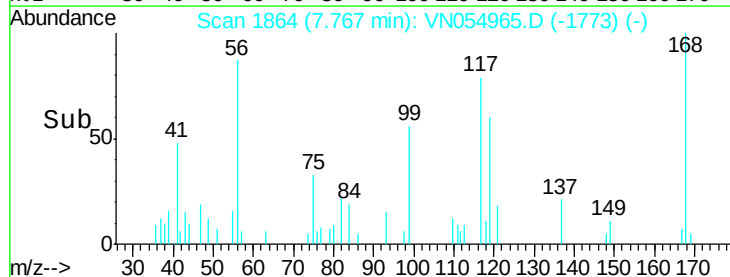
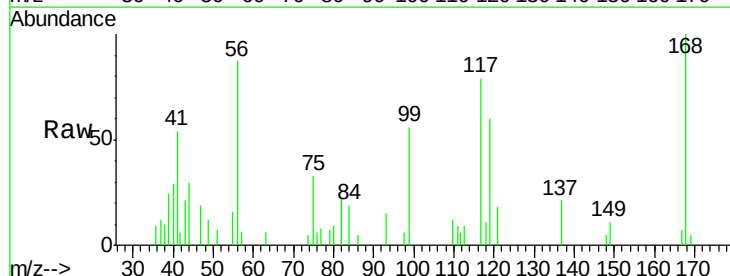
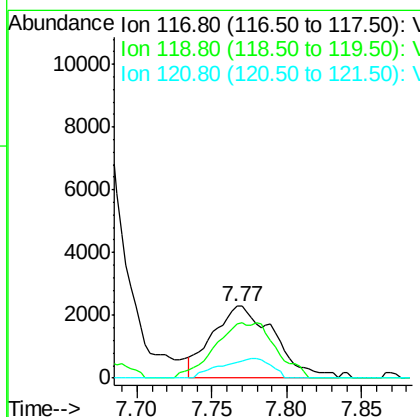
Manual Integrations
APPROVED

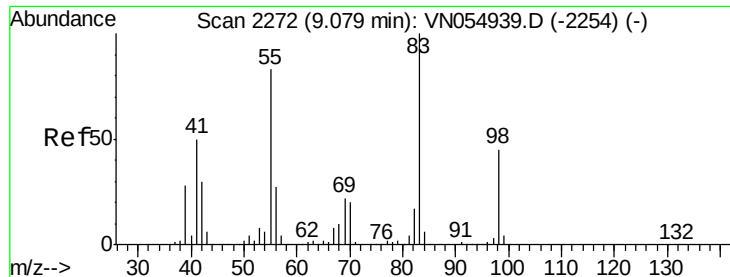
MMDadoda
4/8/2019 3:34:06 AM



#38
Carbon Tetrachloride
Concen: 1.018 ug/l
RT: 7.77 min Scan# 1864
Delta R.T. -0.01 min
Lab File: VN054965.D
Acq: 5 Apr 2019 10:53

Tgt Ion	Ratio	Lower	Upper
117	100		
119	75.6	73.6	110.4
121	22.8	23.4	35.0#





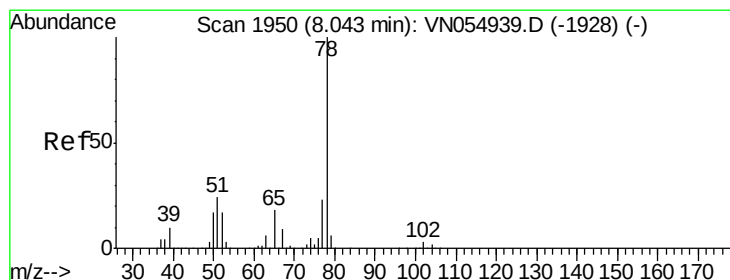
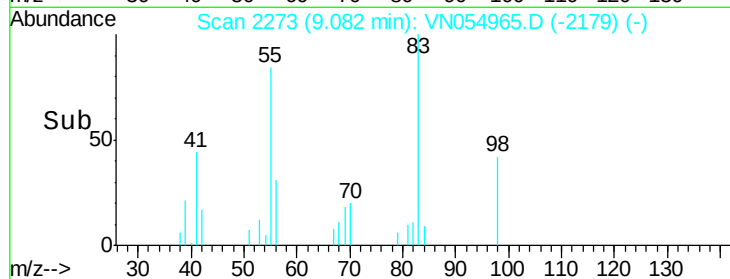
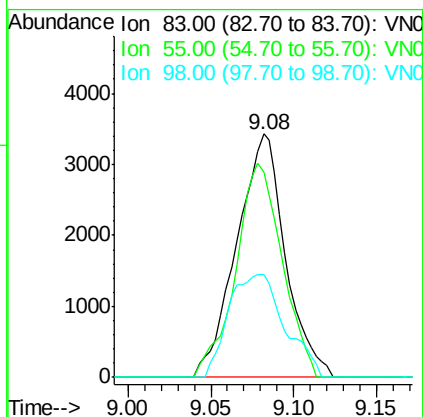
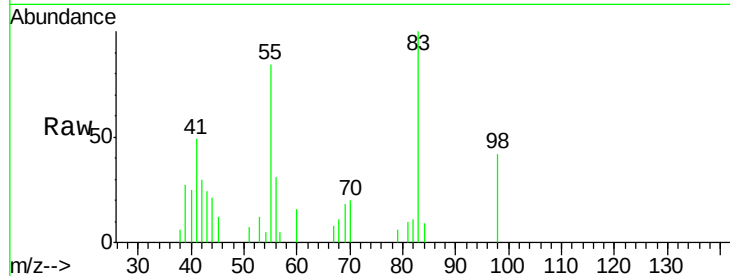
#39
Methylvlcyclohexane
Concen: 0.945 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN054965.D
Acq: 5 Apr 2019 10:53

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

Tot Ion	Ratio	Resp	Lower	Upper
83	100	6994		
55	84.3		66.4	99.6
98	42.4		36.4	54.6

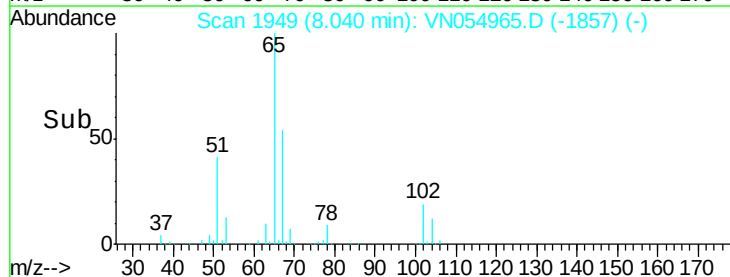
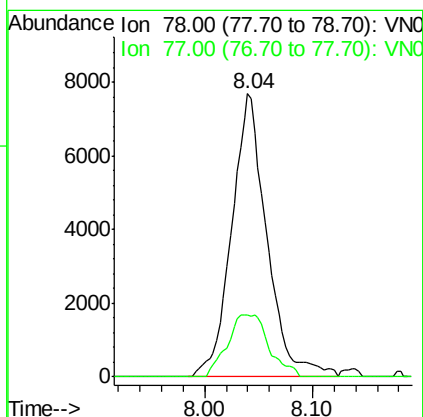
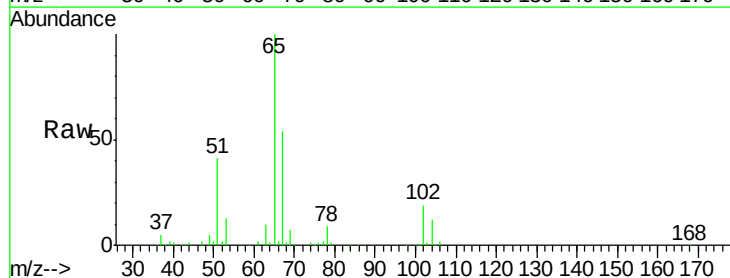
Manual Integrations
APPROVED

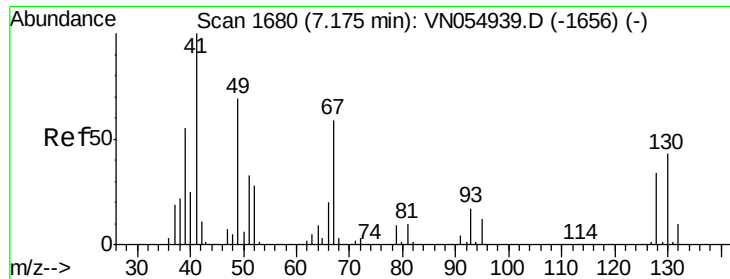
MMDadoda
4/8/2019 3:34:06 AM



#40
Benzene
Concen: 0.904 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. -0.00 min
Lab File: VN054965.D
Acq: 5 Apr 2019 10:53

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	17485		
77	22.0		18.6	27.8





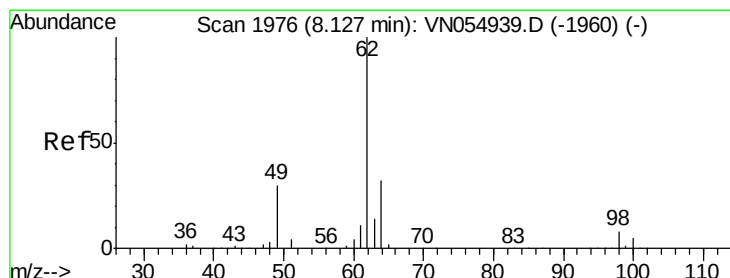
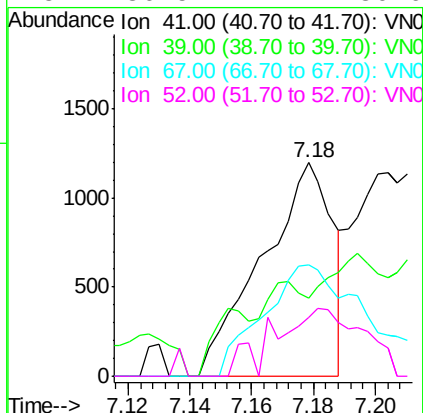
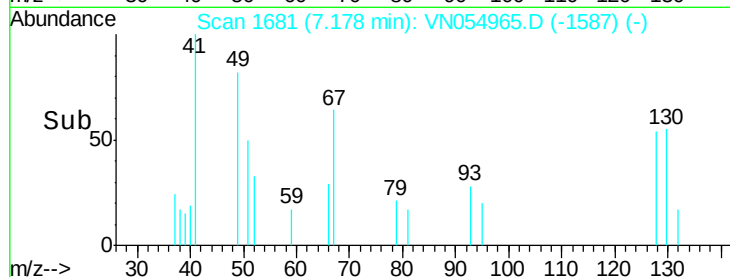
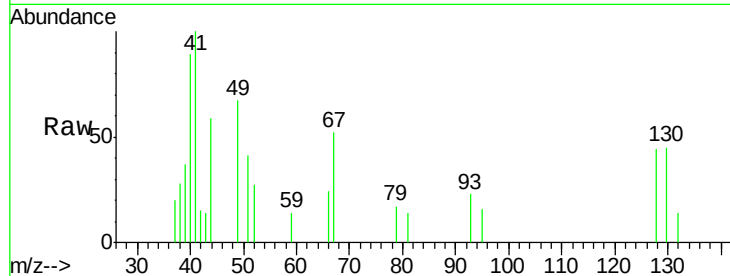
#41
Methacrylonitrile
Concen: 0.718 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VN054965.D
Acq: 5 Apr 2019 10:53

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

Tot Ion	Ratio	Lower	Upper
41	100		
39	25.8	43.0	64.6#
67	73.7	55.0	82.6
52	36.5	24.4	36.6

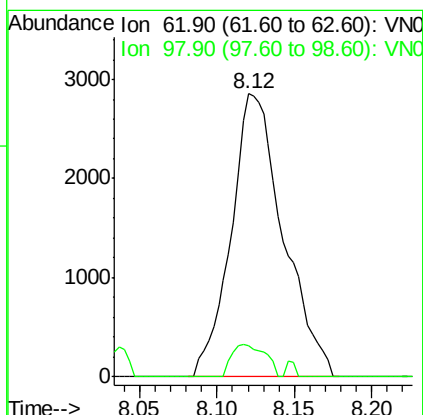
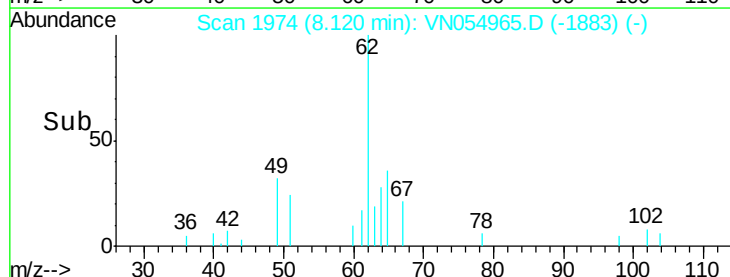
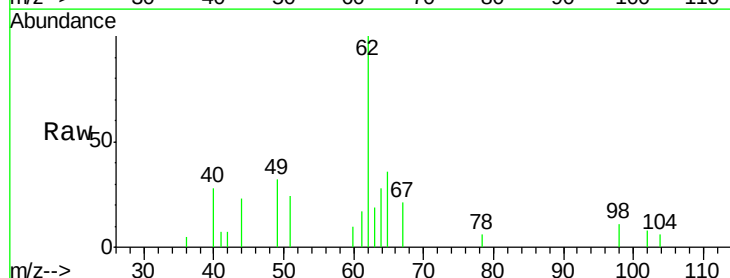
Manual Integrations
APPROVED

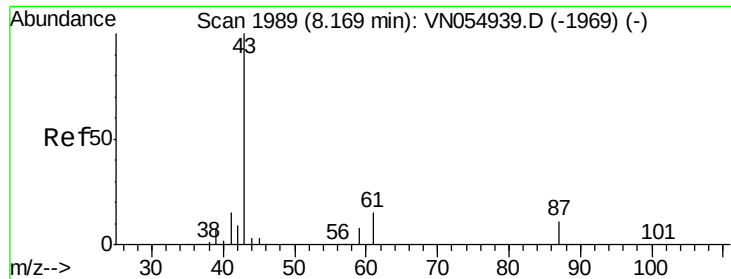
MMDadoda
4/8/2019 3:34:06 AM



#42
1,2-Dichloroethane
Concen: 0.985 ug/l
RT: 8.12 min Scan# 1974
Delta R.T. -0.01 min
Lab File: VN054965.D
Acq: 5 Apr 2019 10:53

Tgt Ion	Ratio	Lower	Upper
62	100		
98	7.3	0.0	16.0





#43

Isopropyl Acetate

Concen: 0.891 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.00 min

Lab File: VN054965.D

Acq: 5 Apr 2019 10:53

Instrument :

MSVOA_N

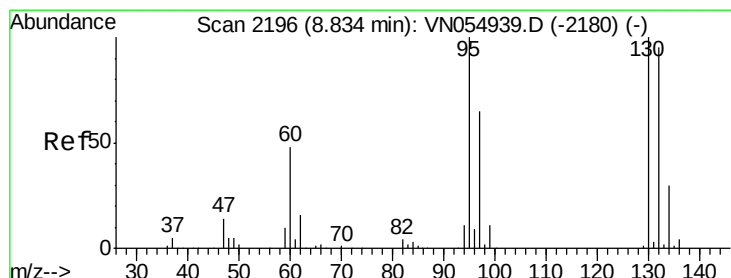
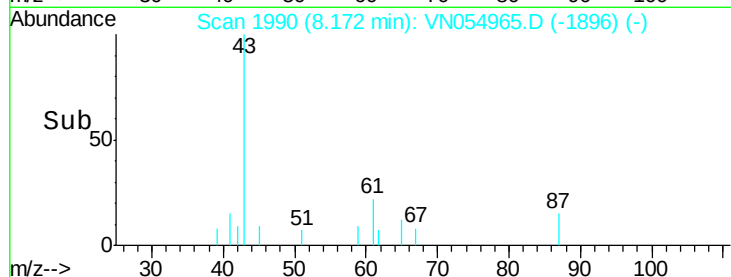
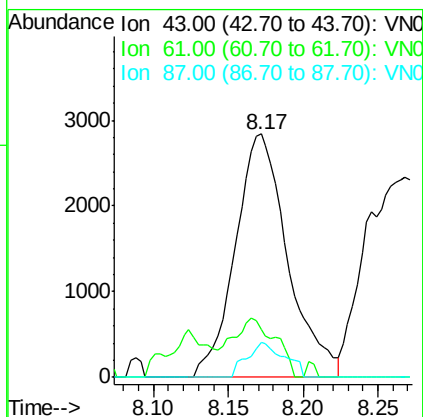
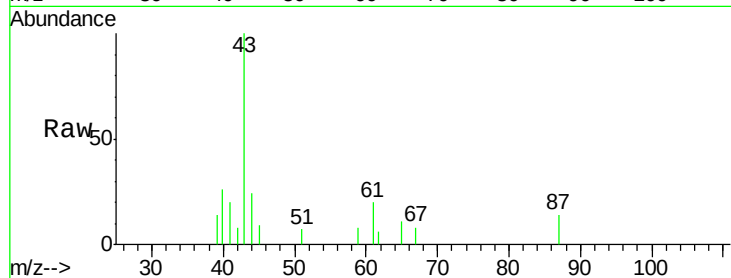
ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion:	43	Resp:	6931
Ion	Ratio	Lower	Upper
43	100		
61	20.1	14.4	21.6
87	10.2	9.0	13.4

Manual Integrations
APPROVED

MMDadoda
4/8/2019 3:34:06 AM



#44

Trichloroethene

Concen: 0.927 ug/l

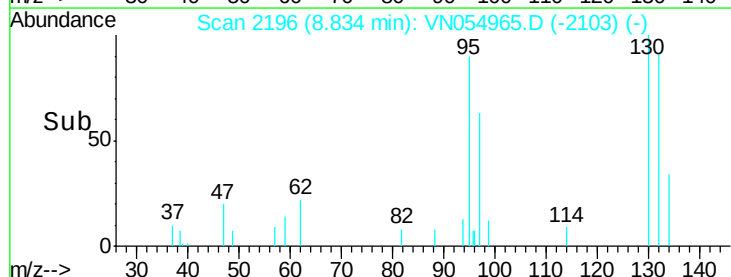
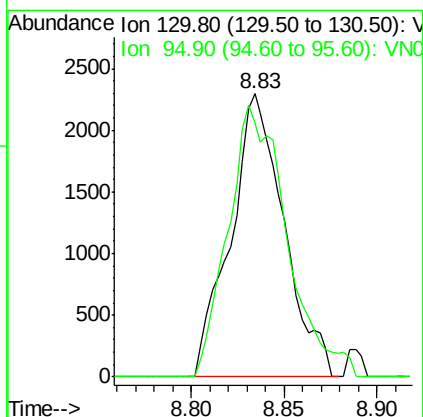
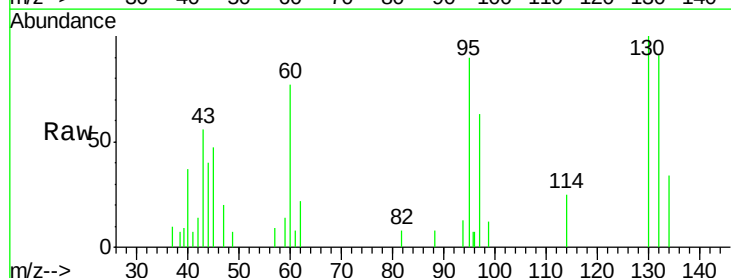
RT: 8.83 min Scan# 2196

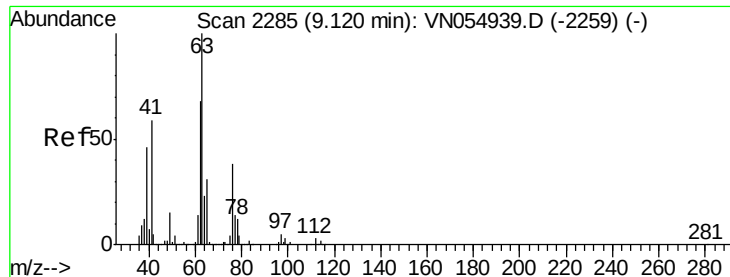
Delta R.T. -0.00 min

Lab File: VN054965.D

Acq: 5 Apr 2019 10:53

Tgt Ion:	130	Resp:	4587
Ion	Ratio	Lower	Upper
130	100		
95	89.8	0.0	200.4





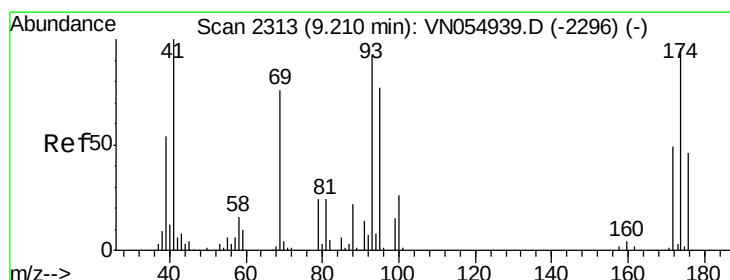
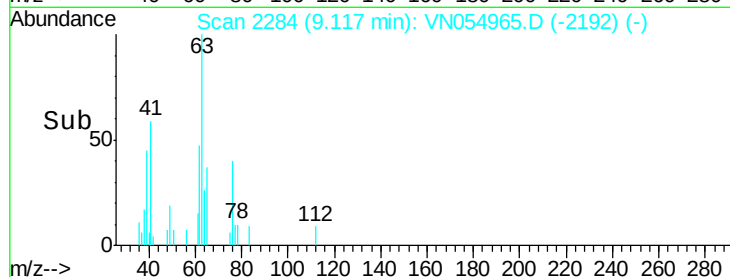
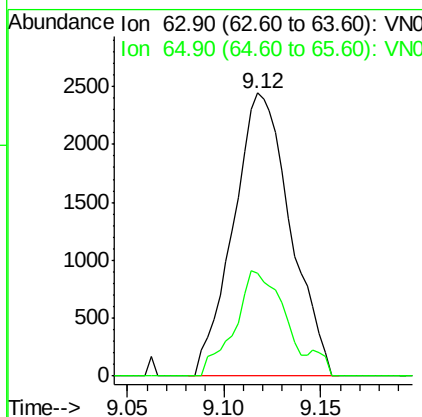
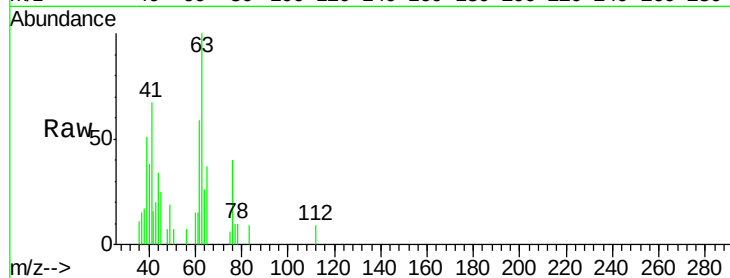
#45
 1,2-Dichloropropane
 Concen: 0.931 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. -0.00 min
 Lab File: VN054965.D
 Acq: 5 Apr 2019 10:53

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

Tot Ion: 63 Resp: 5022
 Ion Ratio Lower Upper
 63 100
 65 36.6 24.6 37.0

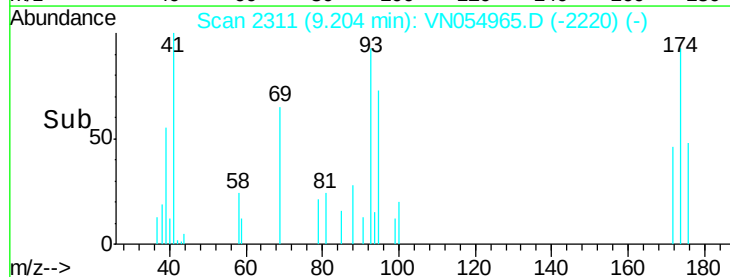
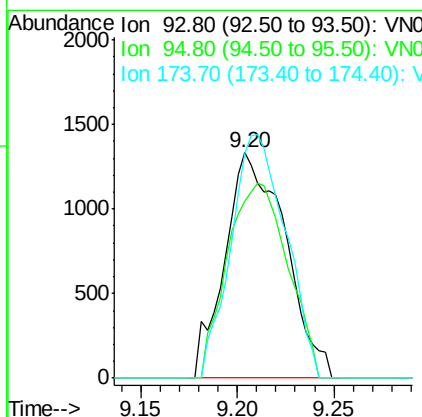
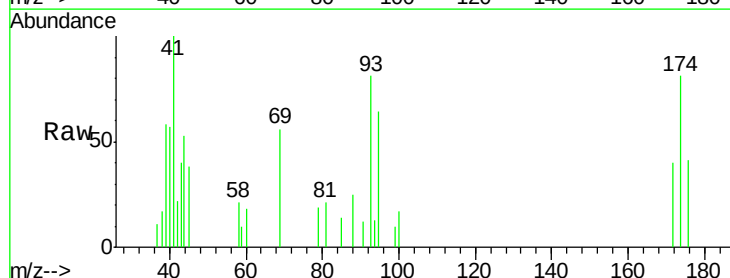
Manual Integrations
 APPROVED

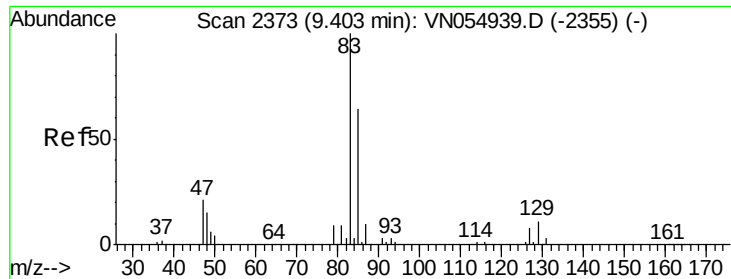
MMDadoda
 4/8/2019 3:34:06 AM



#46
 Dibromomethane
 Concen: 0.944 ug/l
 RT: 9.20 min Scan# 2311
 Delta R.T. -0.01 min
 Lab File: VN054965.D
 Acq: 5 Apr 2019 10:53

Tgt Ion: 93 Resp: 2886
 Ion Ratio Lower Upper
 93 100
 95 87.0 66.7 100.1
 174 98.2 82.0 123.0





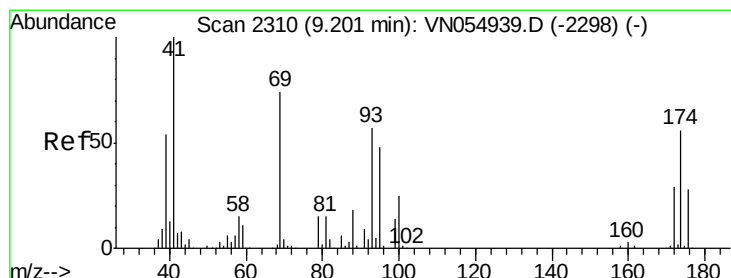
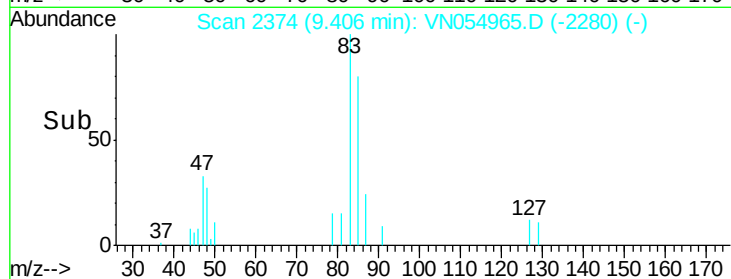
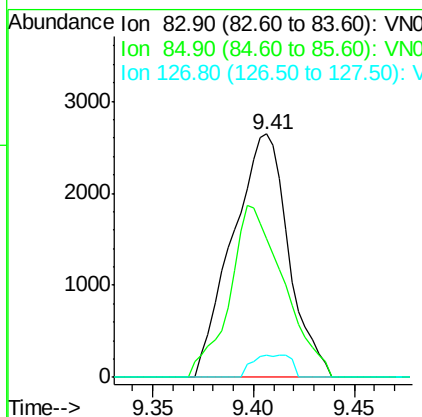
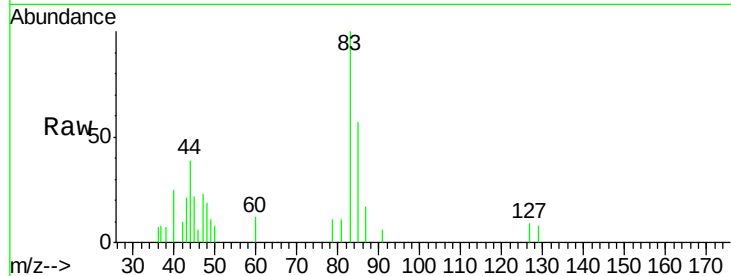
#47
Bromodichloromethane
Concen: 0.797 ug/l
RT: 9.41 min Scan# 2374
Delta R.T. 0.00 min
Lab File: VN054965.D
Acq: 5 Apr 2019 10:53

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

Tot Ion	Ratio	Lower	Upper
83	100		
85	57.1	51.1	76.7
127	8.9	6.7	10.1

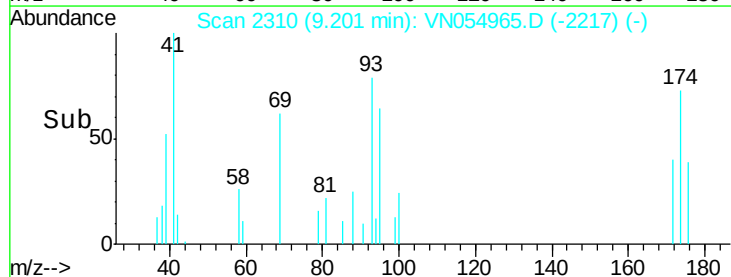
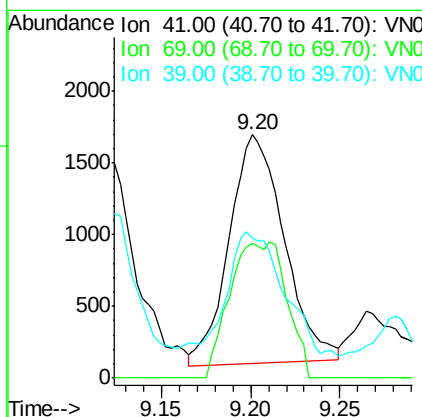
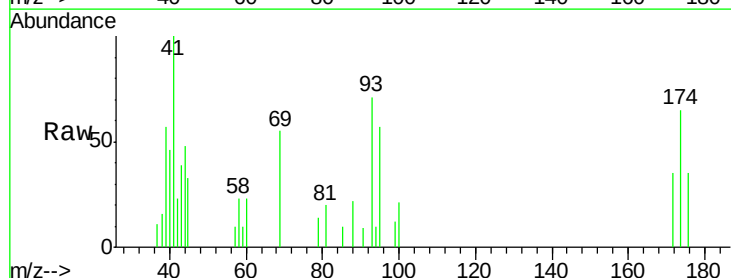
Manual Integrations
APPROVED

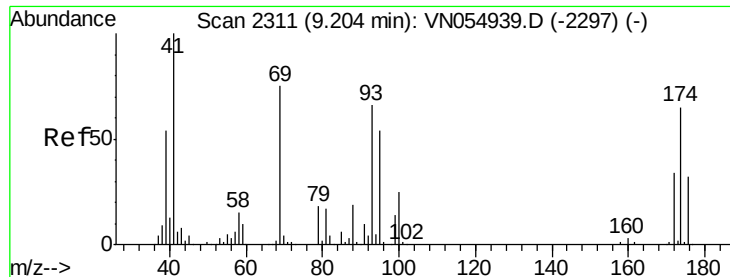
MMDadoda
4/8/2019 3:34:06 AM



#48
Methyl methacrylate
Concen: 0.872 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. -0.00 min
Lab File: VN054965.D
Acq: 5 Apr 2019 10:53

Tgt Ion	Ratio	Lower	Upper
41	100		
69	61.4	58.9	88.3
39	54.2	44.2	66.4





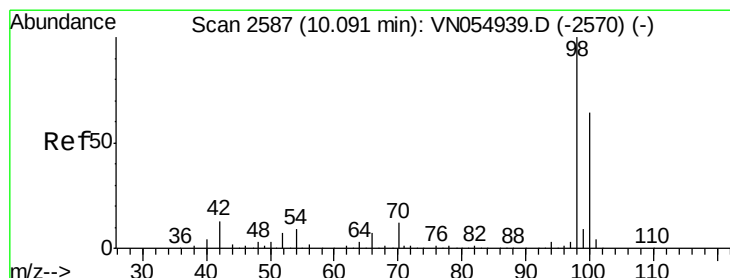
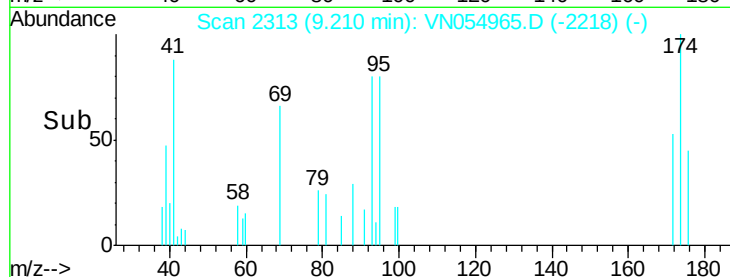
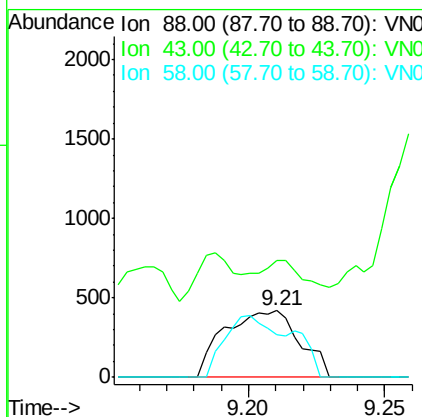
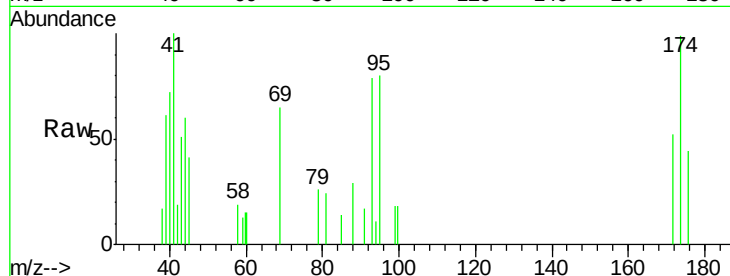
#49
1,4-Dioxane
Concen: 20.028 ug/l
RT: 9.21 min Scan# 2313
Delta R.T. 0.01 min
Lab File: VN054965.D
Acq: 5 Apr 2019 10:53

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

Tot Ion	88	Resp	796
Ion	Ratio	Lower	Upper
88	100		
43	0.0	31.5	47.3#
58	82.7	61.9	92.9

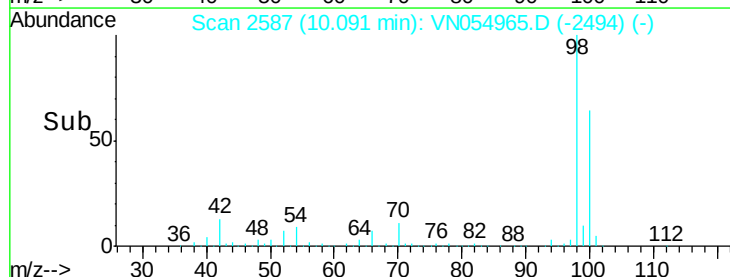
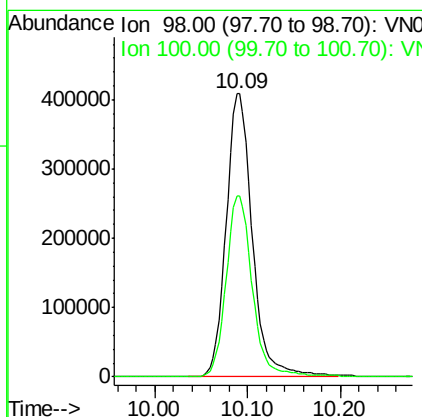
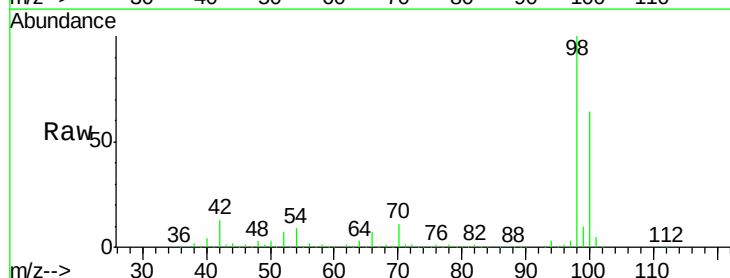
Manual Integrations
APPROVED

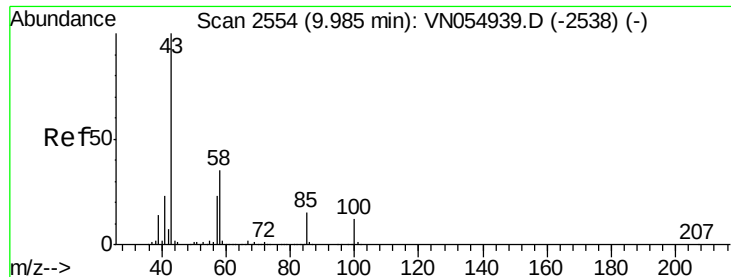
MMDadoda
4/8/2019 3:34:06 AM



#50
Toluene-d8
Concen: 47.862 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN054965.D
Acq: 5 Apr 2019 10:53

Tgt Ion	98	Resp	802427
Ion	Ratio	Lower	Upper
98	100		
100	64.2	51.5	77.3





#51

4-Methyl-2-Pentanone

Concen: 4.264 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN054965.D

Acq: 5 Apr 2019 10:53

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion: 43 Resp: 18502

Ion Ratio Lower Upper

43 100

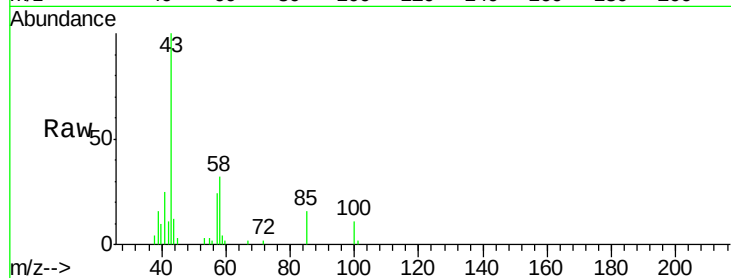
58 34.6 28.3 42.5

Manual Integrations

APPROVED

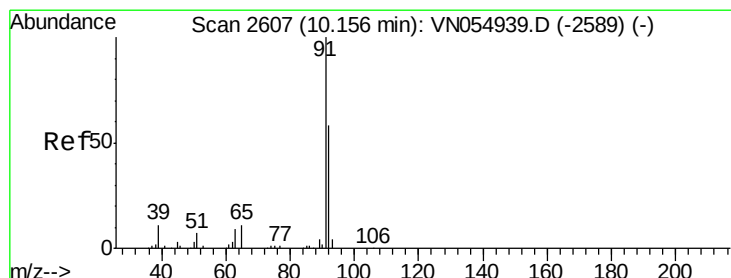
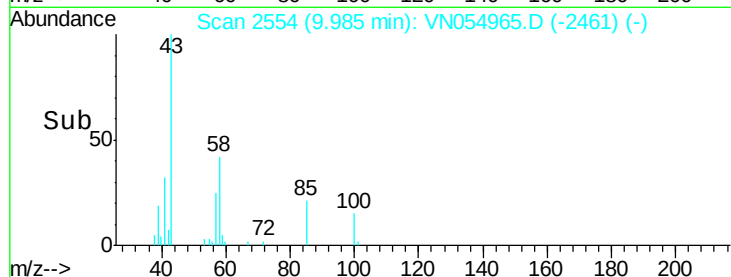
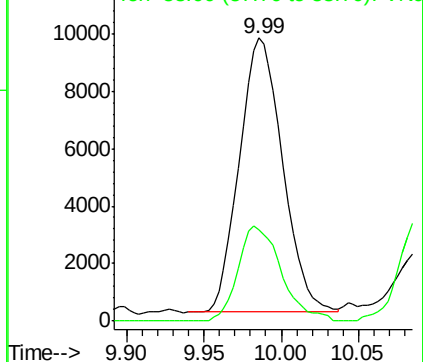
MMDadoda

4/8/2019 3:34:06 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 0.925 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. -0.00 min

Lab File: VN054965.D

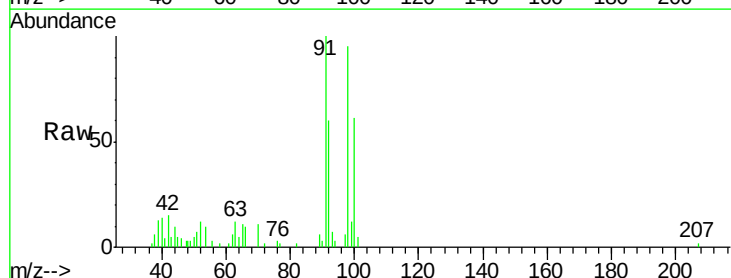
Acq: 5 Apr 2019 10:53

Tgt Ion: 92 Resp: 10552

Ion Ratio Lower Upper

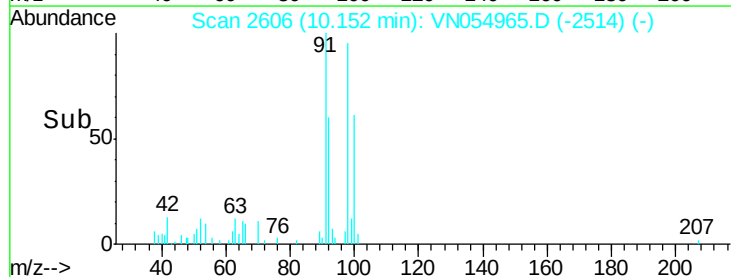
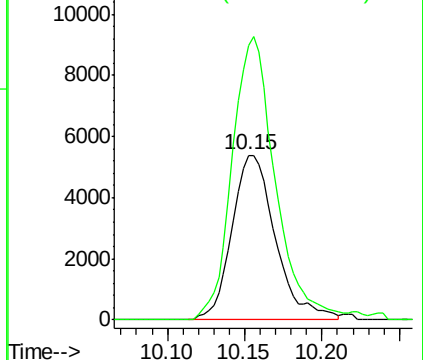
92 100

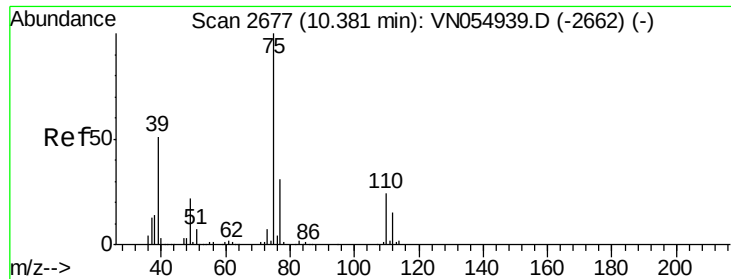
91 169.6 138.8 208.2



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





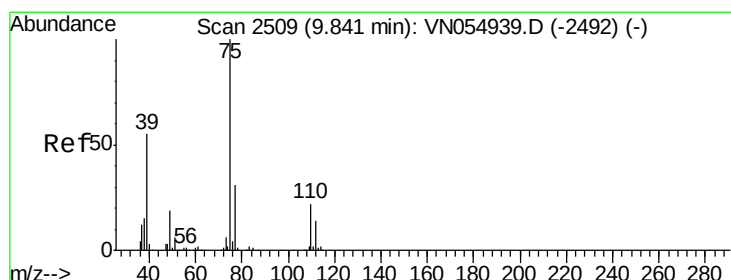
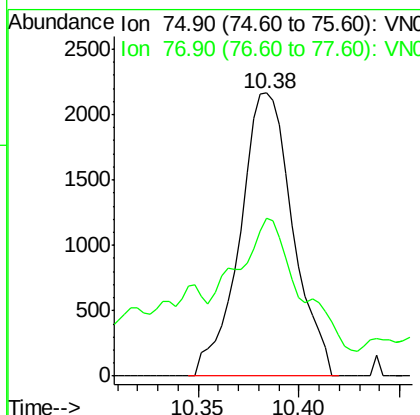
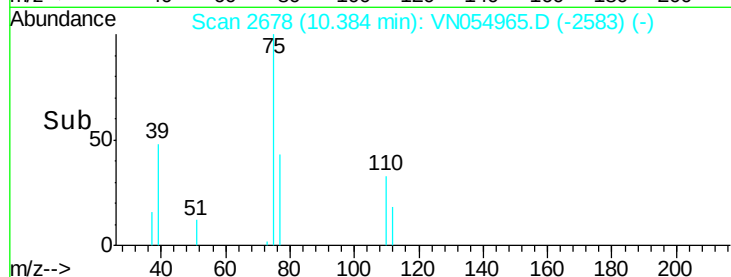
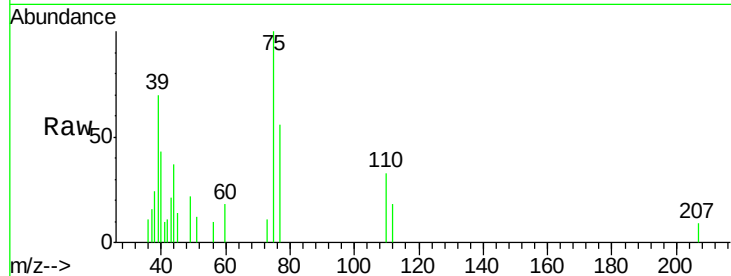
#53
 t-1,3-Dichloropropene
 Concen: 2.600 ug/l
 RT: 10.38 min Scan# 2678
 Delta R.T. 0.00 min
 Lab File: VN054965.D
 Acq: 5 Apr 2019 10:53

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

Tot Ion: 75 Resp: 3965
 Ion Ratio Lower Upper
 75 100
 77 41.2 24.6 36.8#

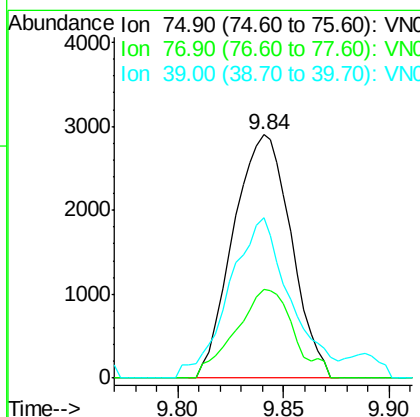
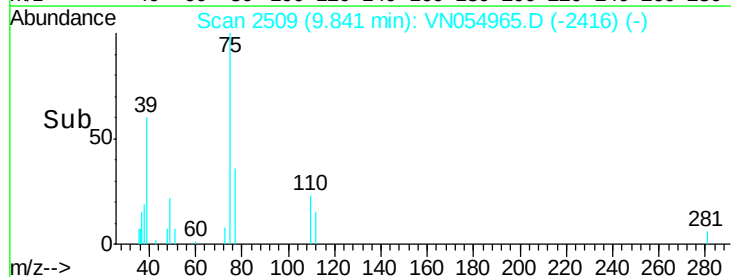
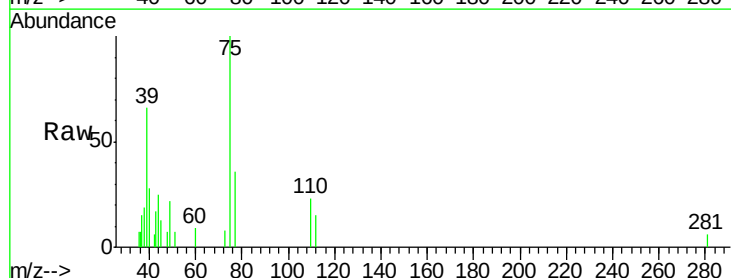
Manual Integrations
 APPROVED

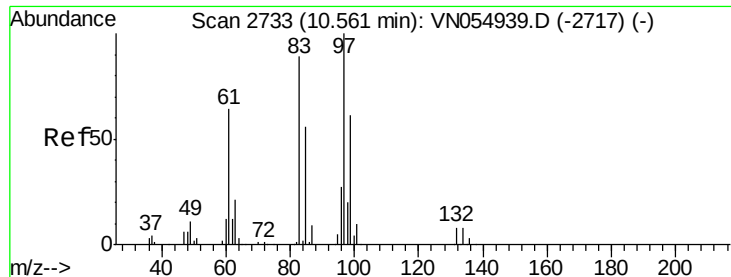
MMDadoda
 4/8/2019 3:34:06 AM



#54
 cis-1,3-Dichloropropene
 Concen: 0.765 ug/l
 RT: 9.84 min Scan# 2509
 Delta R.T. -0.00 min
 Lab File: VN054965.D
 Acq: 5 Apr 2019 10:53

Tgt Ion: 75 Resp: 5530
 Ion Ratio Lower Upper
 75 100
 77 36.5 25.0 37.4
 39 60.3 43.9 65.9





#55

1,1,2-Trichloroethane

Concen: 0.929 ug/l

RT: 10.56 min Scan# 2733

Delta R.T. -0.00 min

Lab File: VN054965.D

Acq: 5 Apr 2019 10:53

Instrument :

MSVOA_N

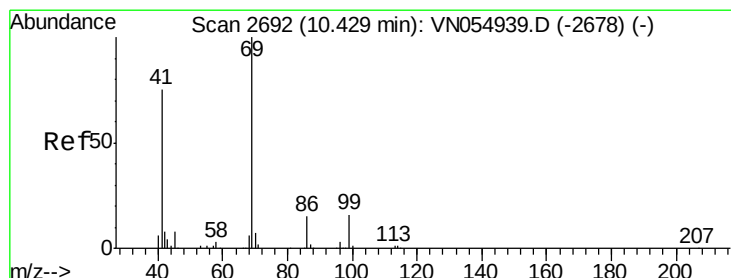
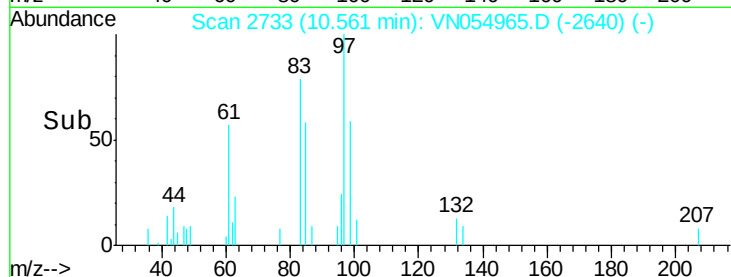
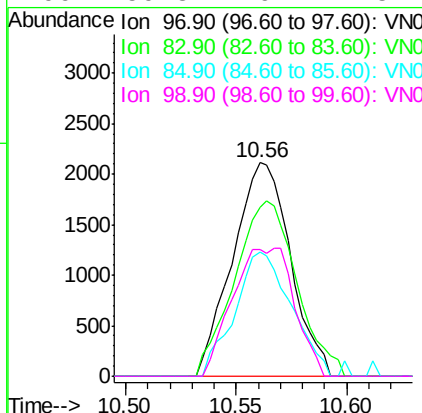
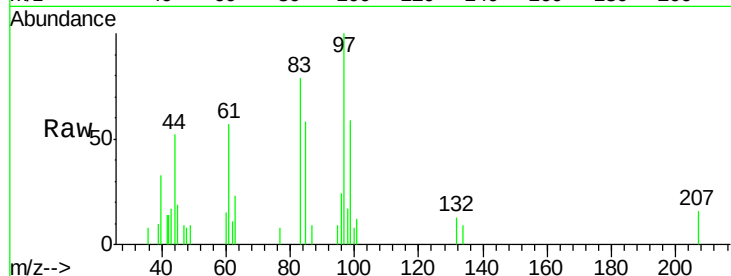
ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion:	97	Resp:	3841
Ion	Ratio	Lower	Upper
97	100		
83	79.3	71.5	107.3
85	58.4	45.0	67.6
99	59.3	49.1	73.7

Manual Integrations
APPROVED

MMDadoda
4/8/2019 3:34:06 AM



#56

Ethyl methacrylate

Concen: 0.819 ug/l

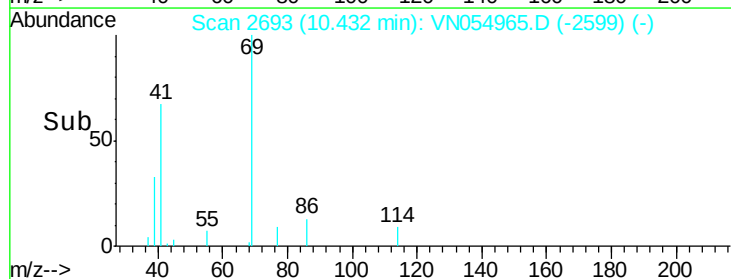
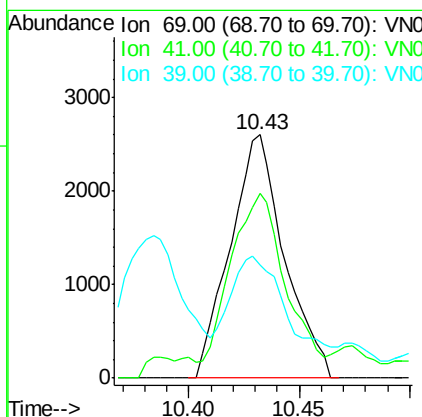
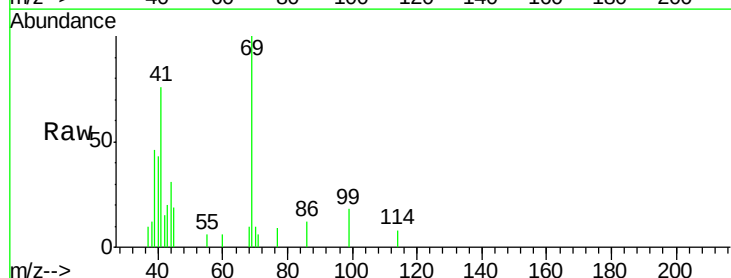
RT: 10.43 min Scan# 2693

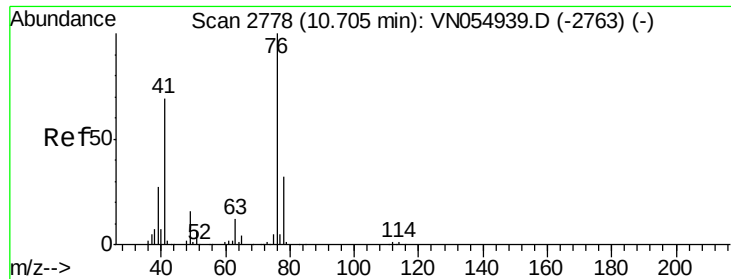
Delta R.T. 0.00 min

Lab File: VN054965.D

Acq: 5 Apr 2019 10:53

Tgt Ion:	69	Resp:	4431
Ion	Ratio	Lower	Upper
69	100		
41	73.4	60.2	90.2
39	36.8	31.3	46.9





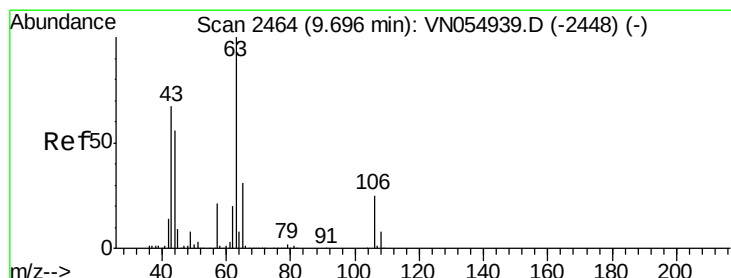
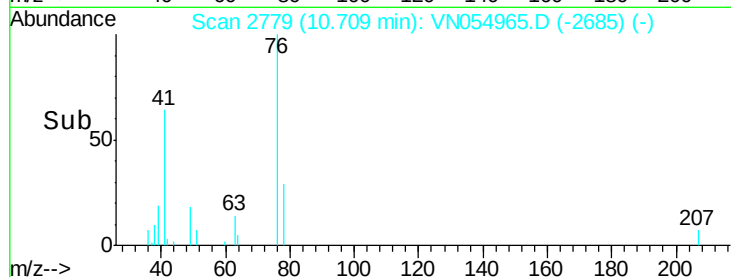
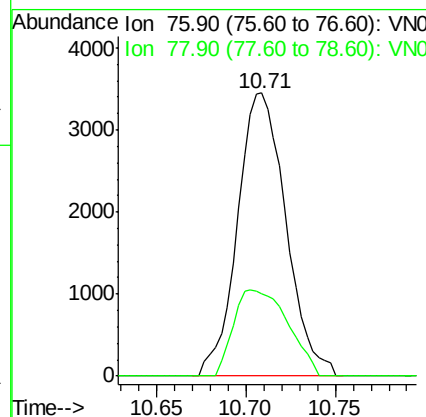
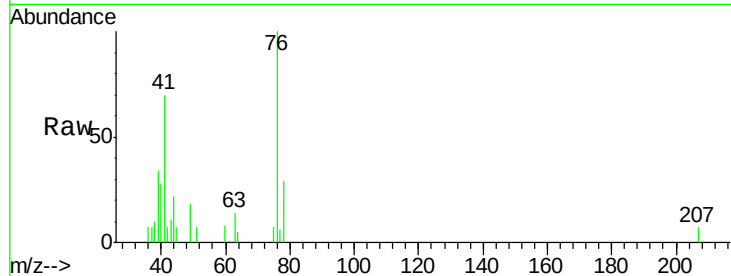
#57
 1,3-Dichloropropane
 Concen: 0.902 ug/l
 RT: 10.71 min Scan# 2779
 Delta R.T. 0.00 min
 Lab File: VN054965.D
 Acq: 5 Apr 2019 10:53

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

Tot Ion: 76 Resp: 6516
 Ion Ratio Lower Upper
 76 100
 78 34.2 25.9 38.9

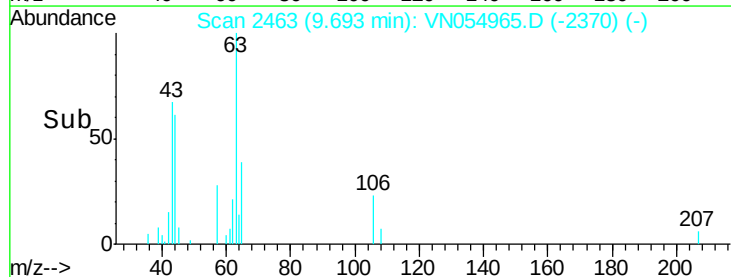
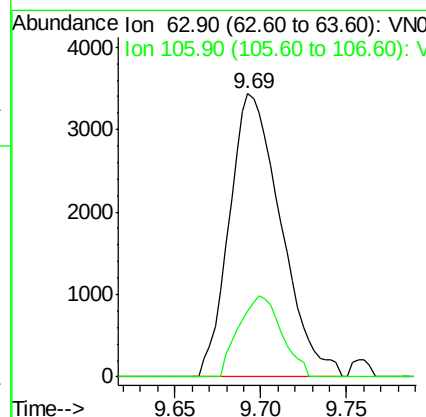
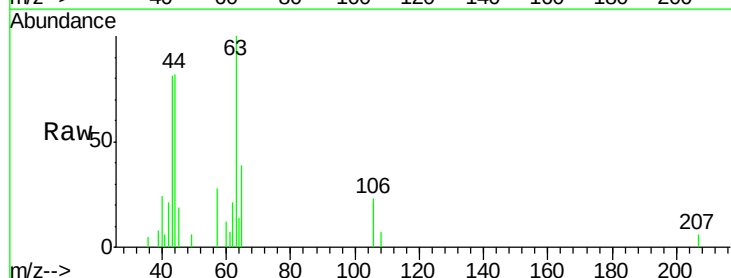
Manual Integrations
 APPROVED

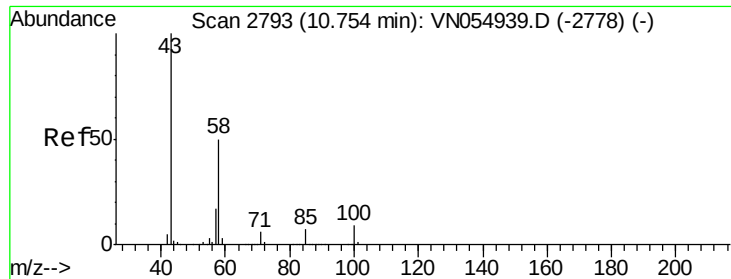
MMDadoda
 4/8/2019 3:34:06 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 12.729 ug/l
 RT: 9.69 min Scan# 2463
 Delta R.T. -0.00 min
 Lab File: VN054965.D
 Acq: 5 Apr 2019 10:53

Tgt Ion: 63 Resp: 7187
 Ion Ratio Lower Upper
 63 100
 106 23.7 19.7 29.5





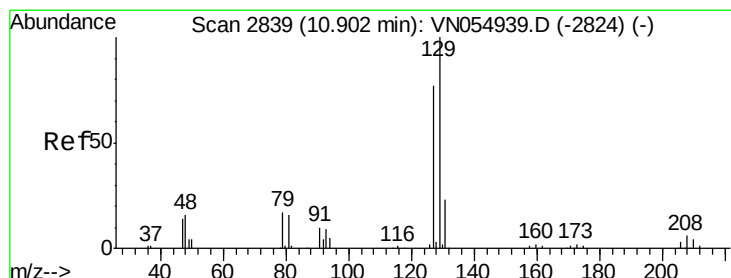
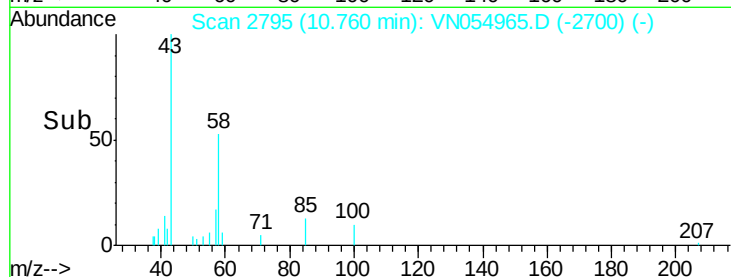
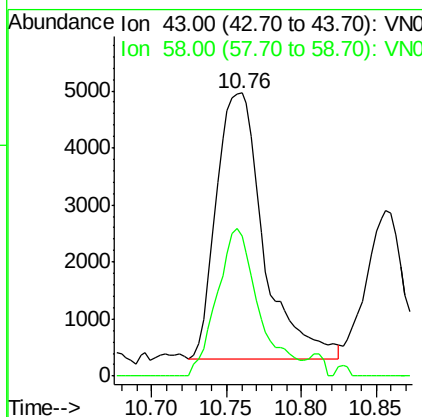
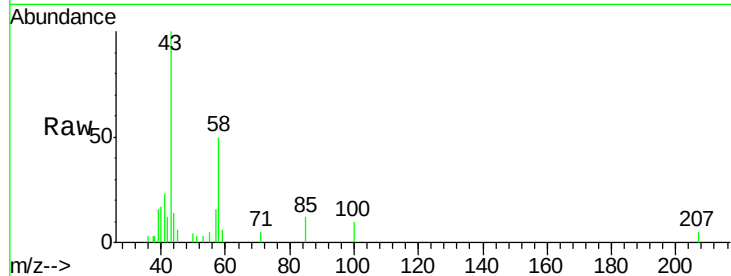
#59
2-Hexanone
Concen: 3.771 ug/l
RT: 10.76 min Scan# 2795
Delta R.T. 0.01 min
Lab File: VN054965.D
Acq: 5 Apr 2019 10:53

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

Tot Ion: 43 Resp: 10222
Ion Ratio Lower Upper
43 100
58 49.6 24.6 73.8

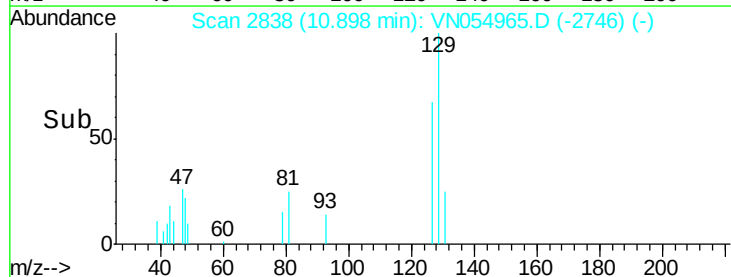
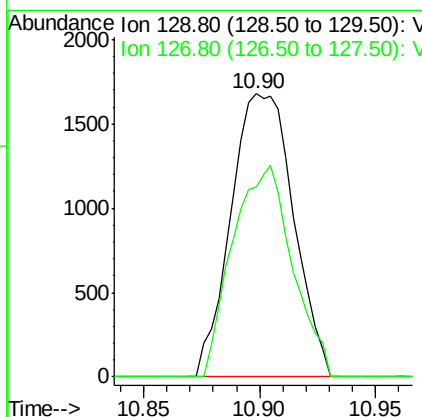
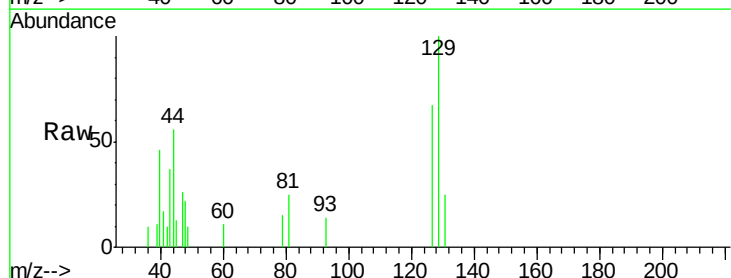
Manual Integrations
APPROVED

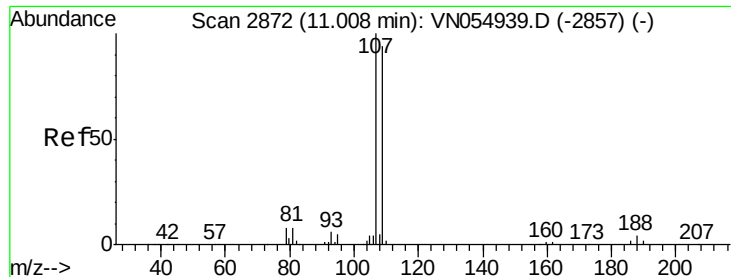
MMDadoda
4/8/2019 3:34:06 AM



#60
Dibromochloromethane
Concen: 0.726 ug/l
RT: 10.90 min Scan# 2838
Delta R.T. -0.00 min
Lab File: VN054965.D
Acq: 5 Apr 2019 10:53

Tgt Ion: 129 Resp: 3146
Ion Ratio Lower Upper
129 100
127 71.3 38.4 115.2





#61

1,2-Dibromoethane

Concen: 0.873 ug/l

RT: 11.01 min Scan# 2873

Delta R.T. 0.00 min

Lab File: VN054965.D

Acq: 5 Apr 2019 10:53

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion: 107 Resp: 3393

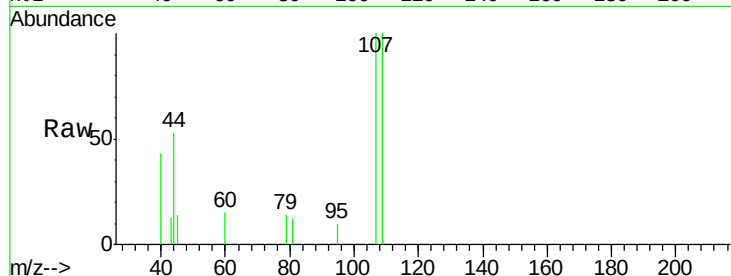
Ion Ratio Lower Upper

107 100

109 92.9 74.6 112.0

Manual Integrations
APPROVED

MMDadoda
4/8/2019 3:34:06 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.01

1500

1000

500

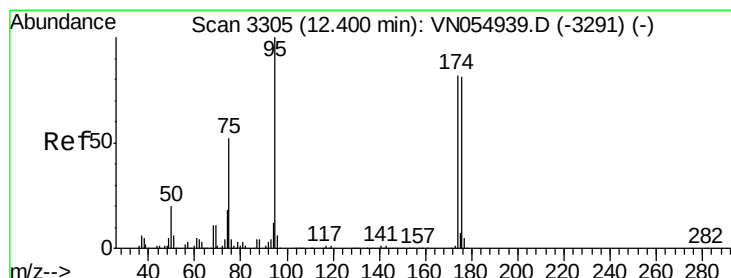
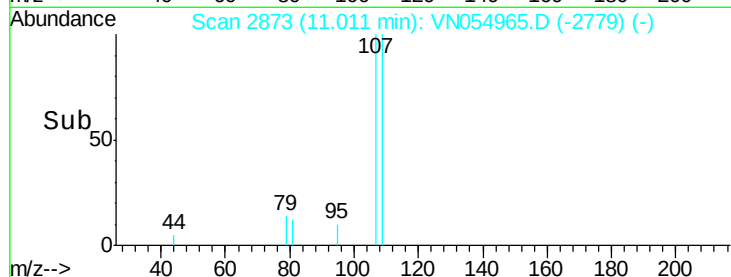
0

Time-->

10.95

11.00

11.05



#62

4-Bromofluorobenzene

Concen: 42.557 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN054965.D

Acq: 5 Apr 2019 10:53

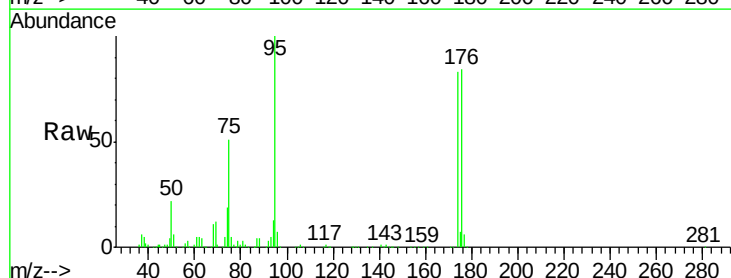
Tgt Ion: 95 Resp: 238107

Ion Ratio Lower Upper

95 100

174 83.7 0.0 166.2

176 82.7 0.0 163.2



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

12.40

150000

100000

50000

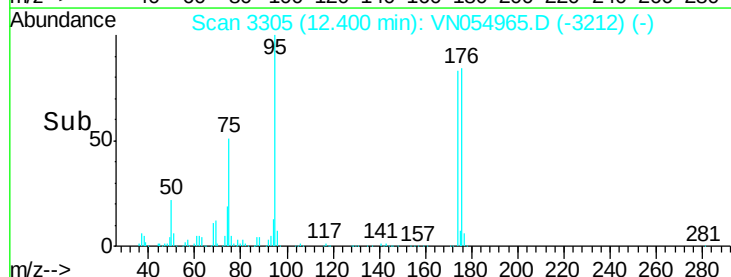
0

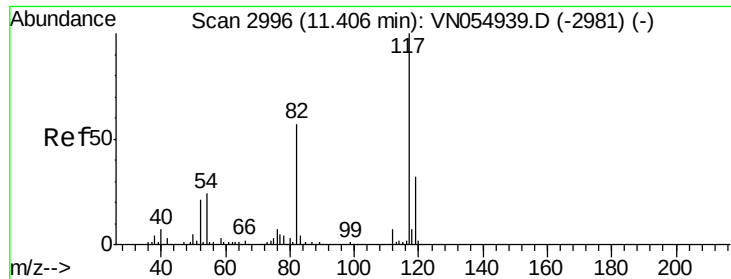
Time-->

12.30

12.40

12.50





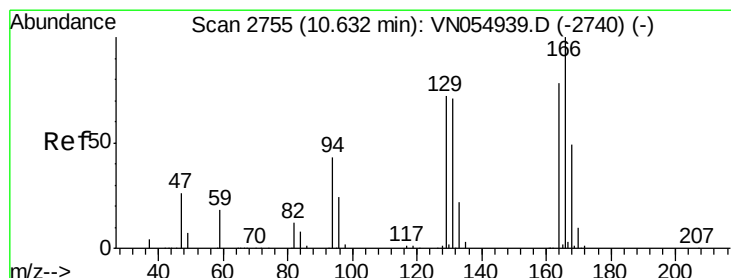
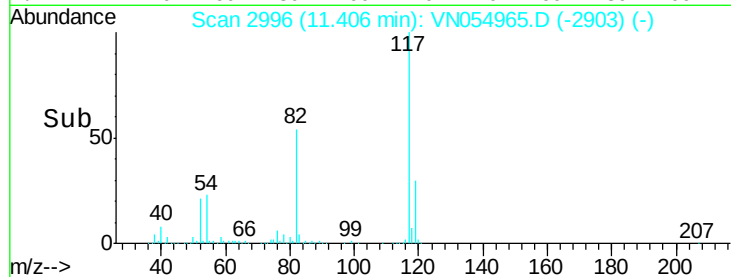
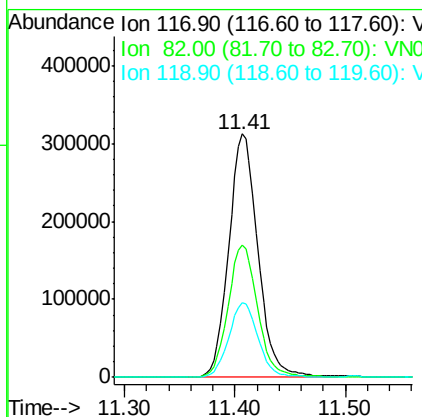
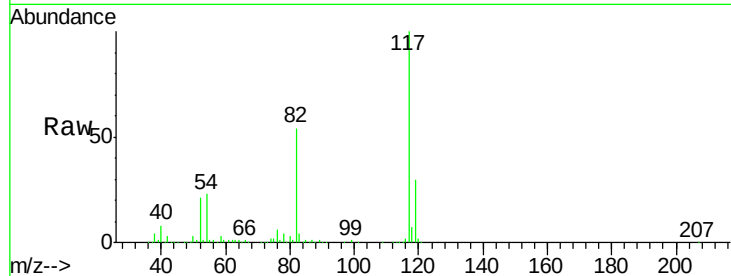
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN054965.D
Acq: 5 Apr 2019 10:53

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

Tot Ion	Ratio	Resp	Lower	Upper
117	100	574299		
82	54.2		45.3	67.9
119	30.4		25.8	38.6

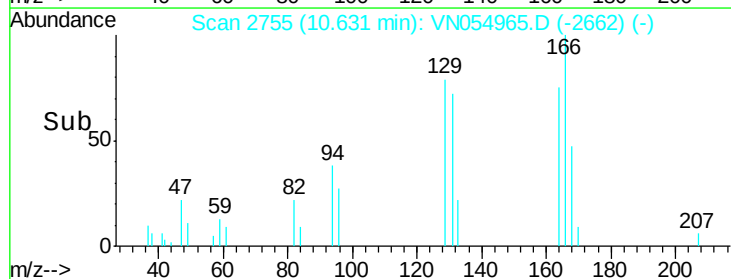
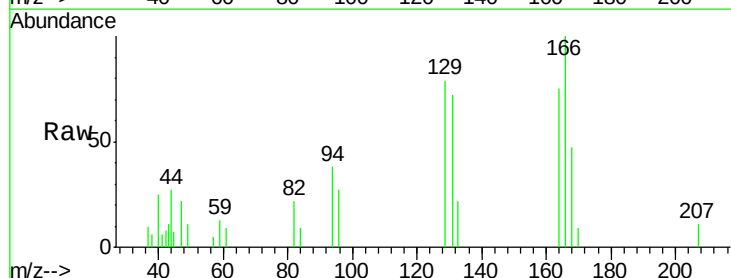
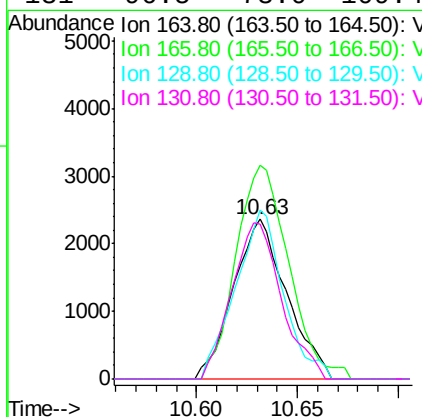
Manual Integrations
APPROVED

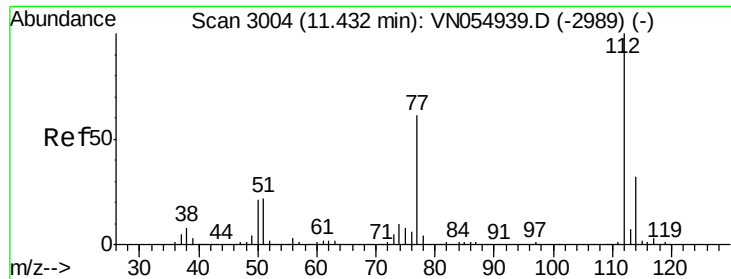
MMDadoda
4/8/2019 3:34:06 AM



#64
Tetrachloroethene
Concen: 0.940 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN054965.D
Acq: 5 Apr 2019 10:53

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	4352		
166	133.6		103.1	154.7
129	105.6		73.9	110.9
131	96.5		73.0	109.4





#65

Chlorobenzene

Concen: 0.958 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. -0.00 min

Lab File: VN054965.D

Acq: 5 Apr 2019 10:53

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion:112 Resp: 11220

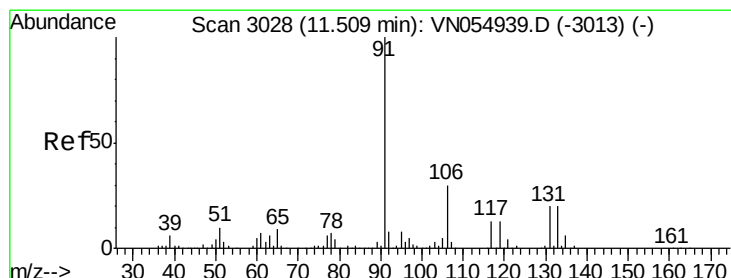
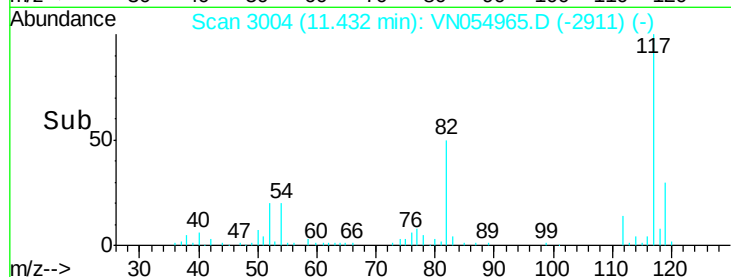
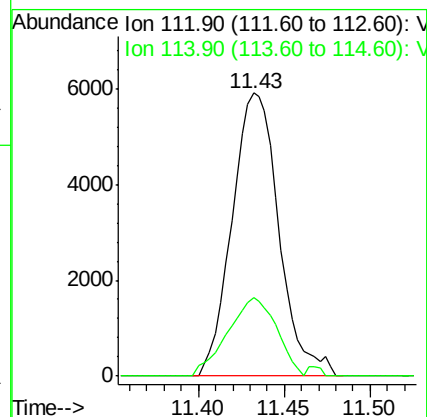
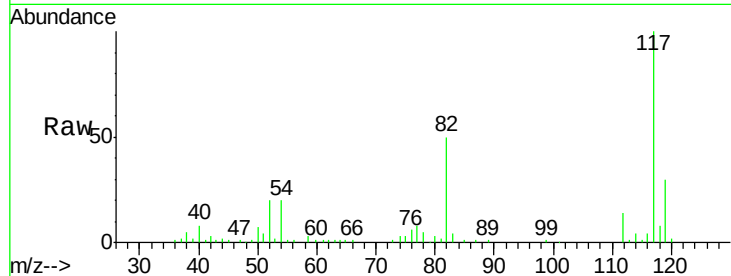
Ion Ratio Lower Upper

112 100

114 27.6 25.4 38.0

Manual Integrations
APPROVED

MMDadoda
4/8/2019 3:34:06 AM



#66

1,1,1,2-Tetrachloroethane

Concen: 0.839 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN054965.D

Acq: 5 Apr 2019 10:53

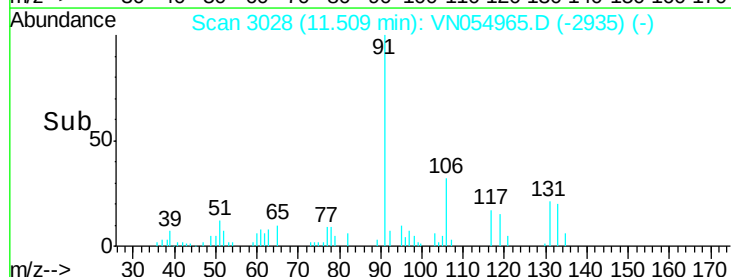
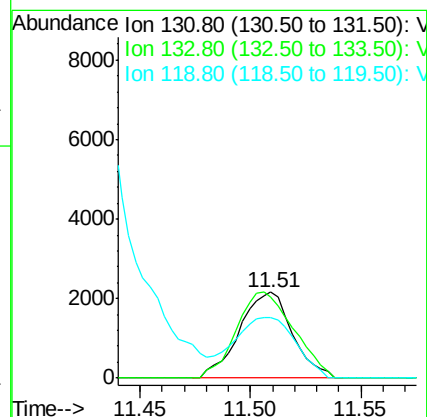
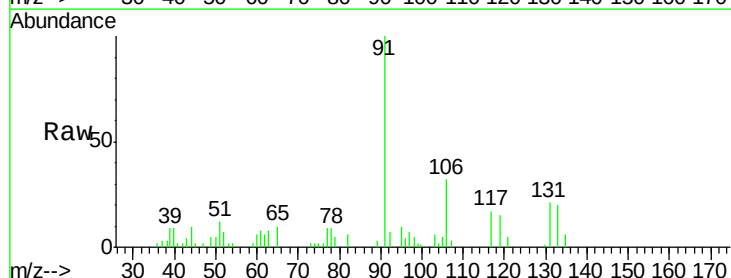
Tgt Ion:131 Resp: 3595

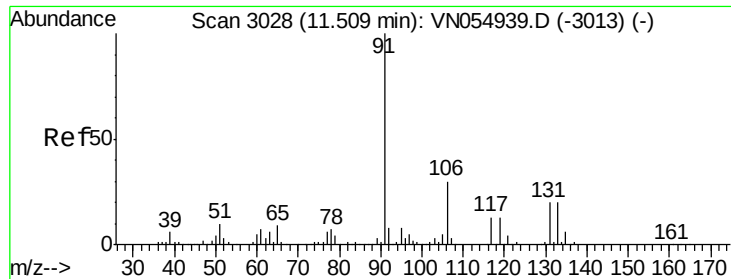
Ion Ratio Lower Upper

131 100

133 108.9 48.1 144.4

119 0.0 33.1 99.2#





#67

Ethyl Benzene

Concen: 0.883 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN054965.D

Acq: 5 Apr 2019 10:53

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion: 91 Resp: 18627

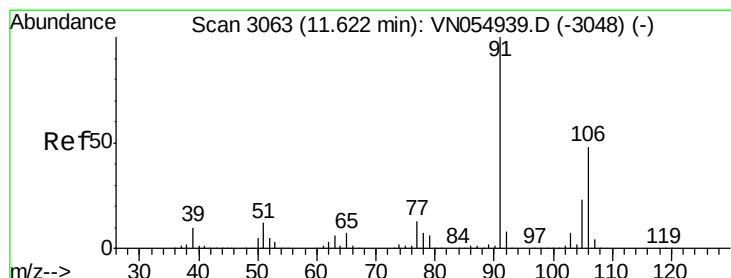
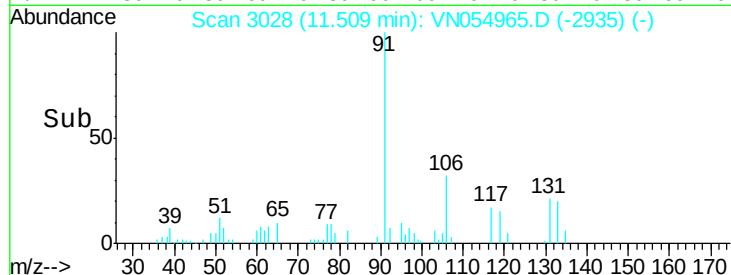
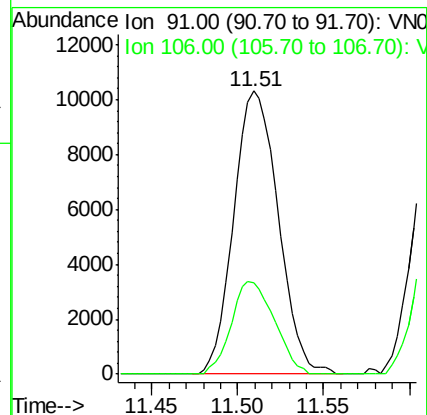
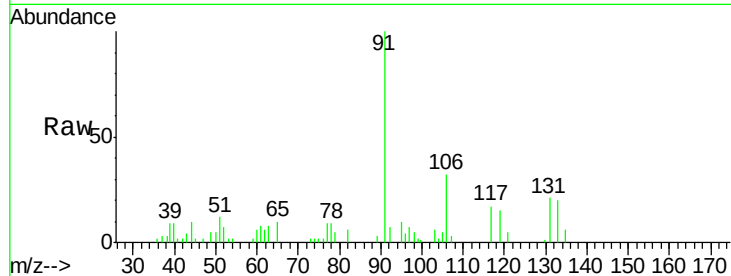
Ion Ratio Lower Upper

91 100

106 32.2 24.1 36.1

Manual Integrations
APPROVED

MMDadoda
4/8/2019 3:34:06 AM



#68

m/p-Xylenes

Concen: 1.796 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VN054965.D

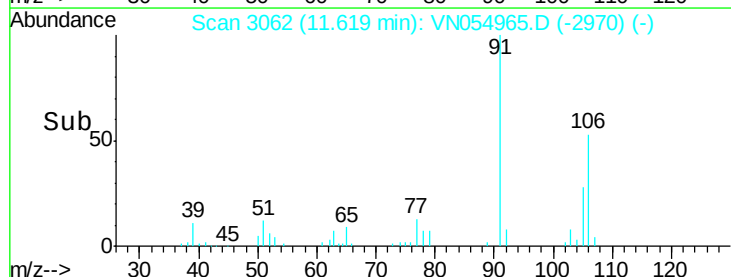
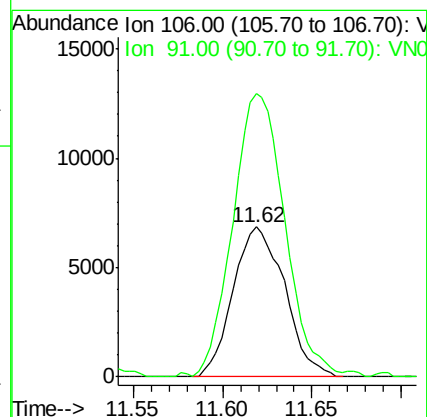
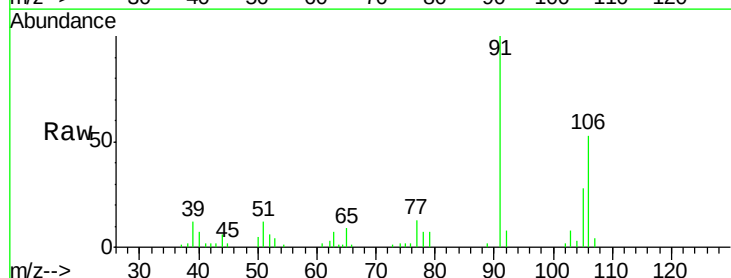
Acq: 5 Apr 2019 10:53

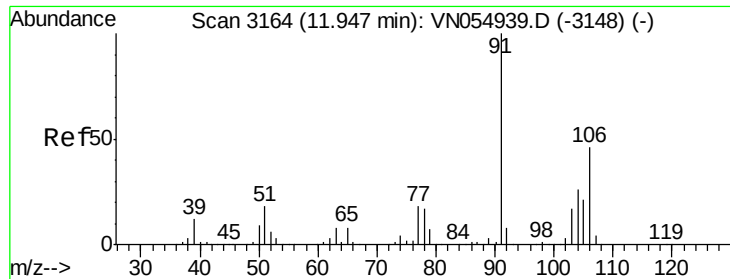
Tgt Ion: 106 Resp: 13859

Ion Ratio Lower Upper

106 100

91 191.4 167.4 251.2





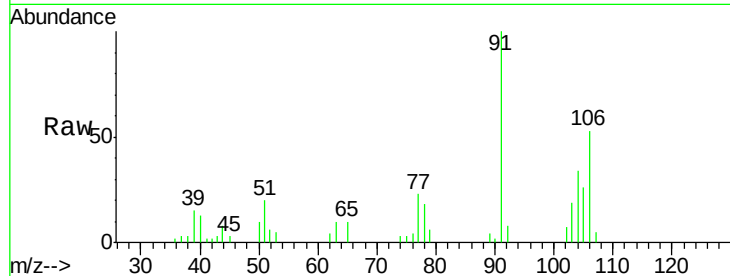
#69
o-Xylene
Concen: 0.918 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN054965.D
Acq: 5 Apr 2019 10:53

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

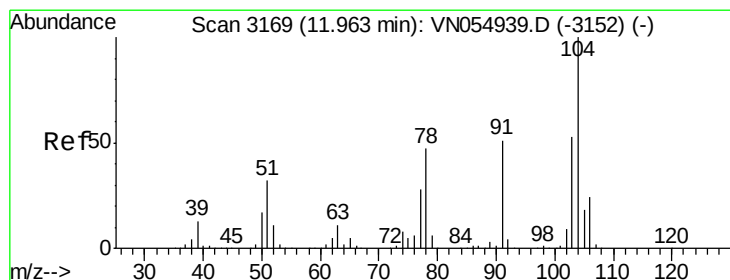
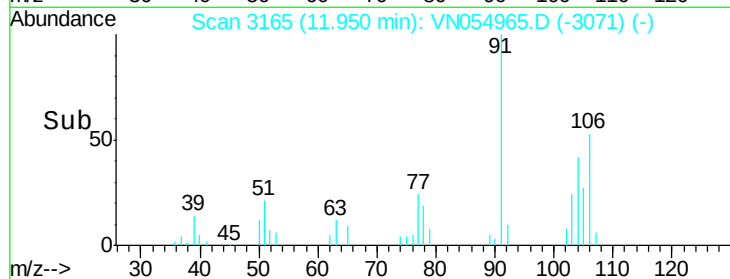
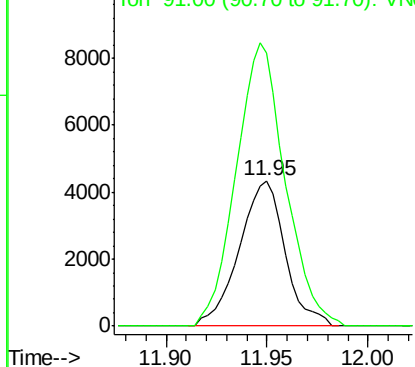
Tot Ion:106 Resp: 6912
Ion Ratio Lower Upper
106 100
91 208.1 109.9 329.7

Manual Integrations
APPROVED

MMDadoda
4/8/2019 3:34:06 AM

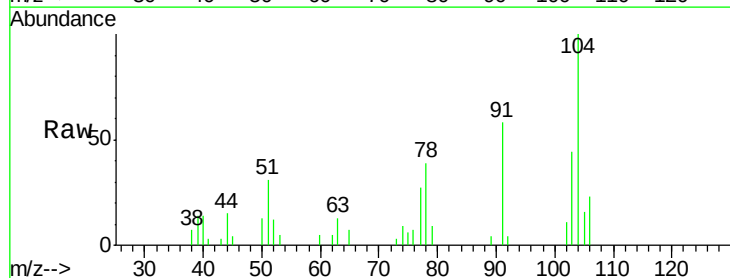


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN

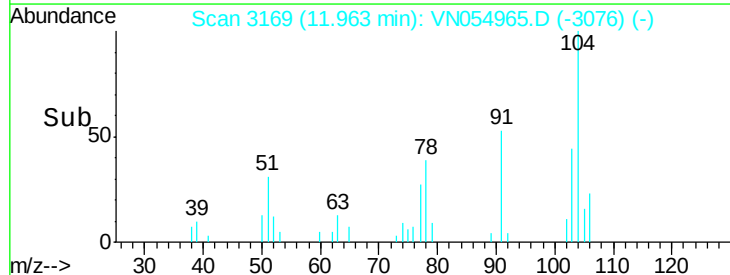
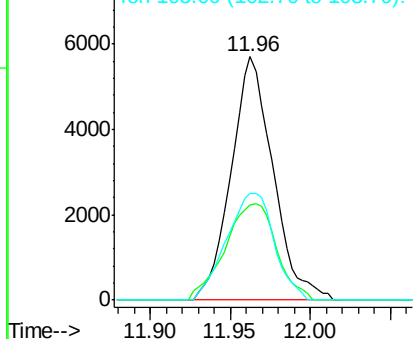


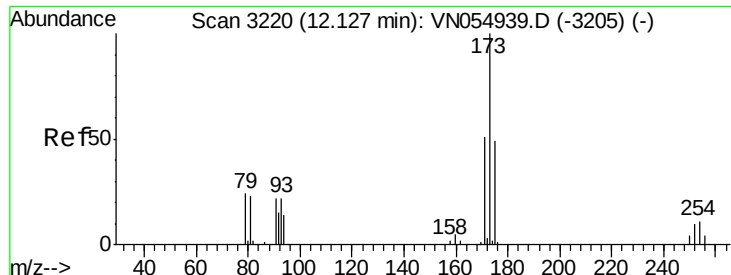
#70
Styrene
Concen: 0.845 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN054965.D
Acq: 5 Apr 2019 10:53

Tgt Ion:104 Resp: 10202
Ion Ratio Lower Upper
104 100
78 48.4 41.1 61.7
103 50.0 45.0 67.4



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





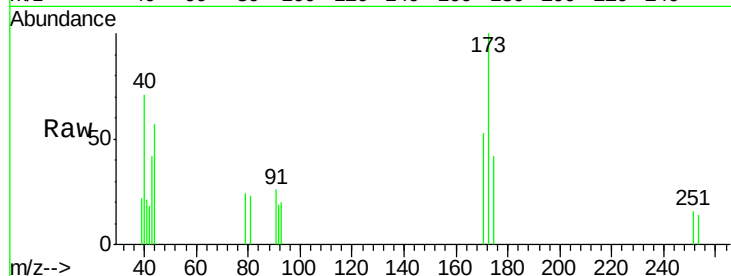
#71
Bromoform
Concen: 0.823 ug/l
RT: 12.12 min Scan# 3219
Delta R.T. -0.00 min
Lab File: VN054965.D
Acq: 5 Apr 2019 10:53

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

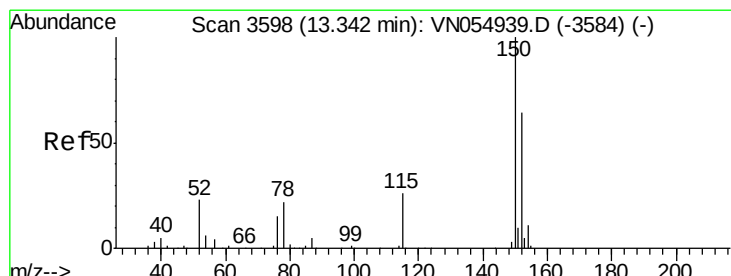
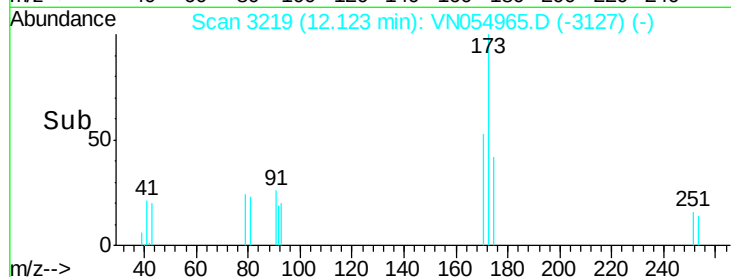
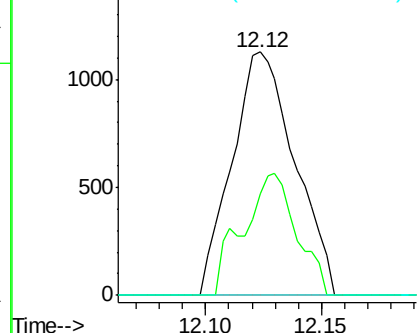
Tot Ion	Ratio	Lower	Upper
173	100		
175	43.2	24.1	72.4
254	0.0	0.0	0.0

Manual Integrations
APPROVED

MMDadoda
4/8/2019 3:34:06 AM



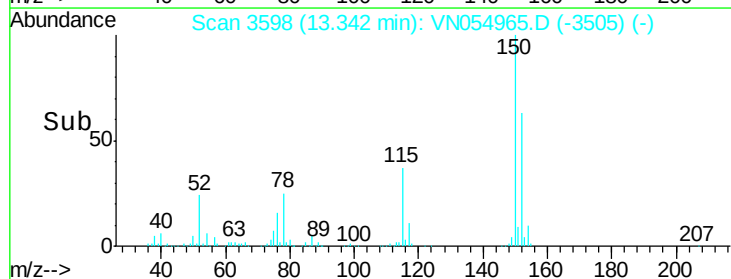
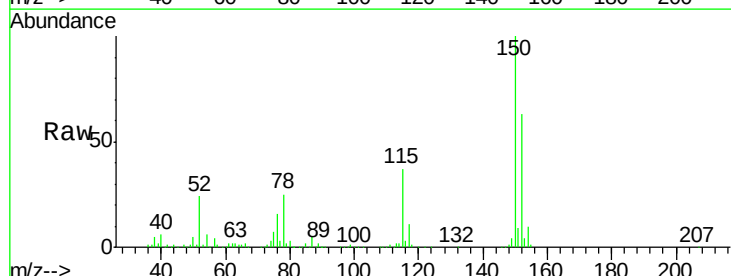
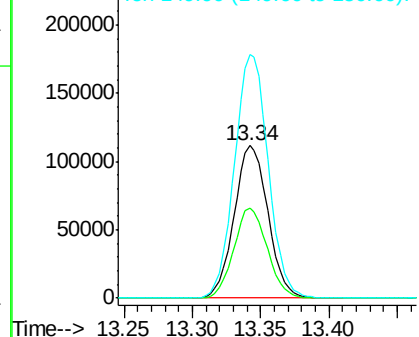
Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

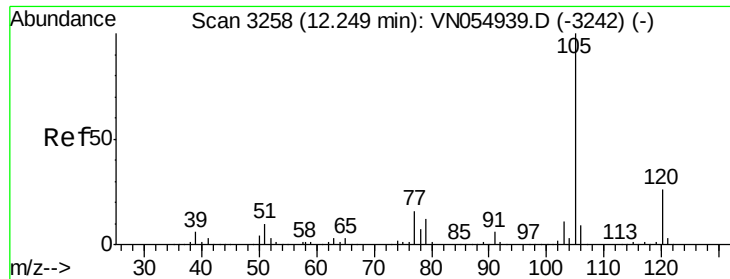


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN054965.D
Acq: 5 Apr 2019 10:53

Tgt Ion	Ratio	Lower	Upper
152	100		
115	58.6	28.9	86.8
150	159.4	0.0	345.4

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: 1.036 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN054965.D

Acq: 5 Apr 2019 10:53

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion: 105 Resp: 16795

Ion Ratio Lower Upper

105 100

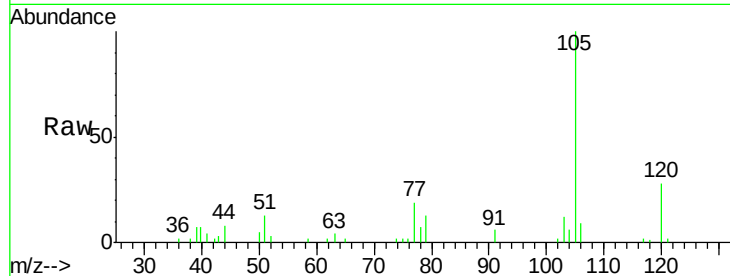
120 27.0 13.0 39.0

Manual Integrations

APPROVED

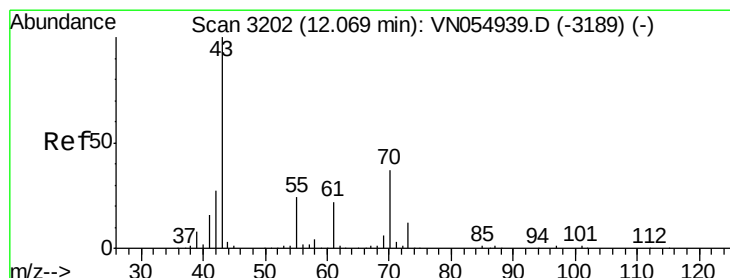
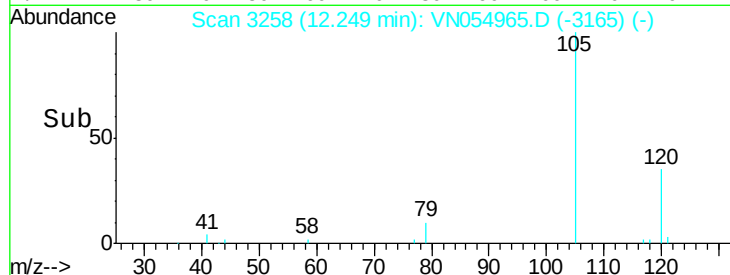
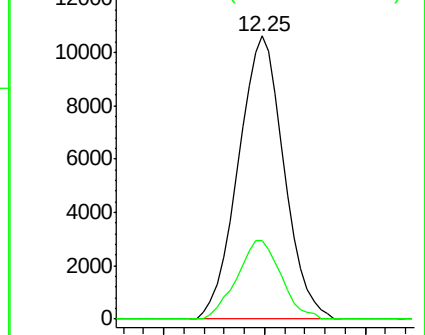
MMDadoda

4/8/2019 3:34:06 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 0.898 ug/l

RT: 12.07 min Scan# 3203

Delta R.T. 0.00 min

Lab File: VN054965.D

Acq: 5 Apr 2019 10:53

Tgt Ion: 43 Resp: 4043

Ion Ratio Lower Upper

43 100

70 31.8 29.3 43.9

55 25.5 19.2 28.8

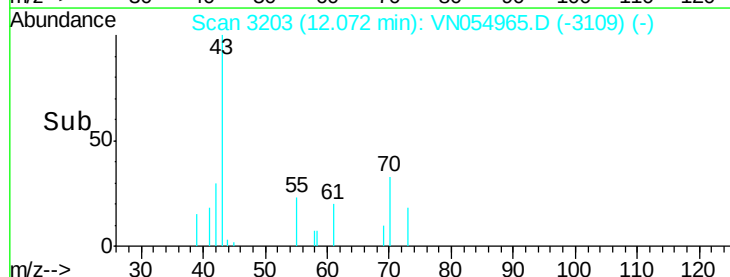
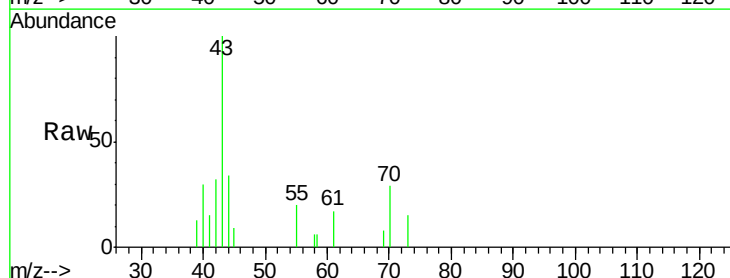
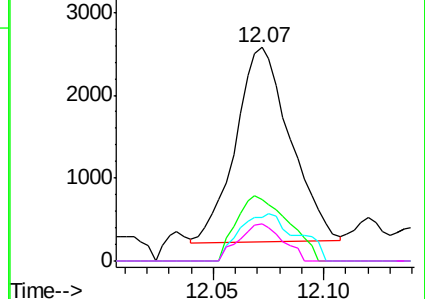
61 15.1 17.4 26.2#

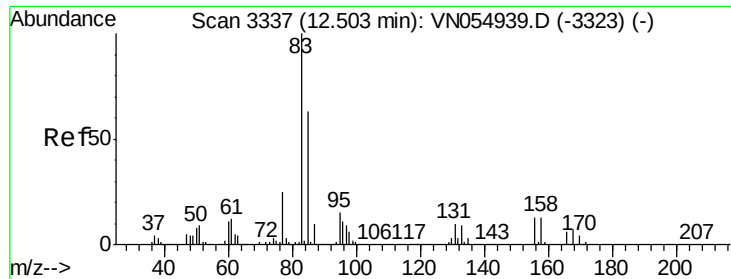
Abundance Ion 43.00 (42.70 to 43.70): V

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





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.50 min Scan# 3336

Delta R.T. -0.00 min

Lab File: VN054965.D

Acq: 5 Apr 2019 10:53

Instrument :

MSVOA_N

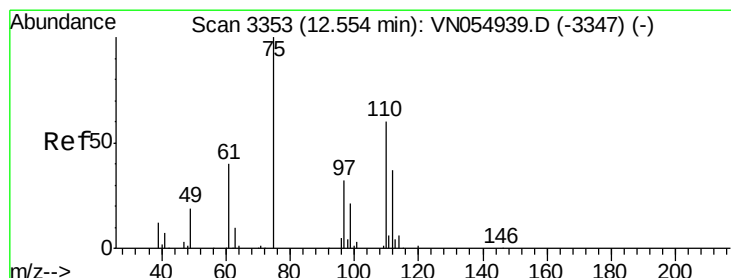
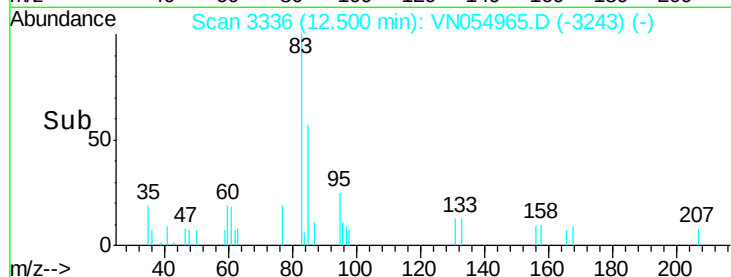
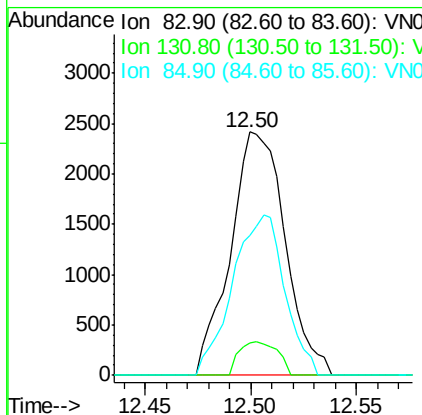
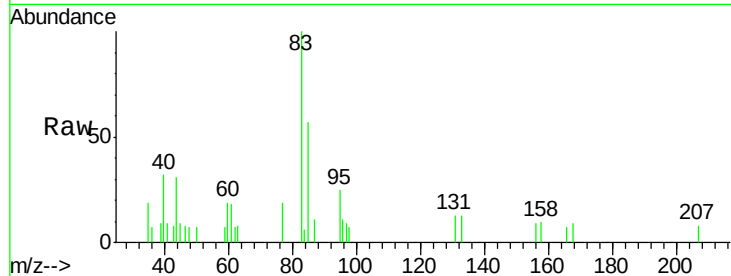
ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion:	83	Resp:	4353
Ion	Ratio	Lower	Upper
83	100		
131	9.7	5.0	15.0
85	62.7	31.4	94.0

Manual Integrations
APPROVED

MMDadoda
4/8/2019 3:34:06 AM



#76

1,2,3-Trichloropropane

Concen: Below Cal m

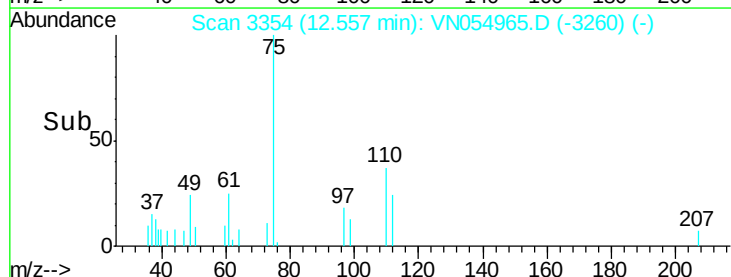
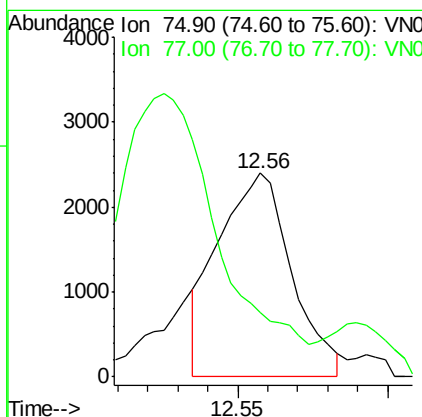
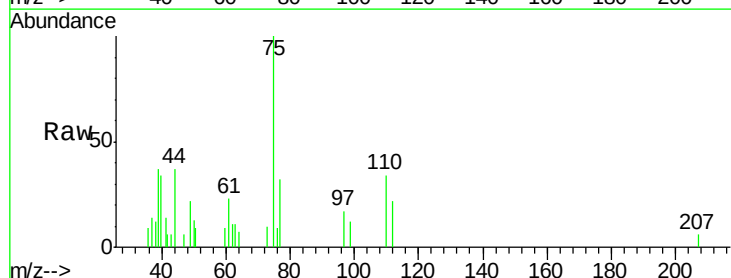
RT: 12.56 min Scan# 3354

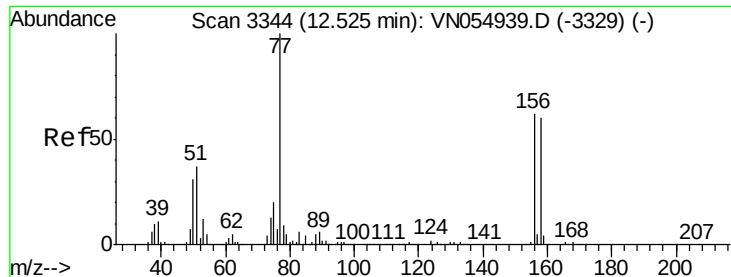
Delta R.T. 0.00 min

Lab File: VN054965.D

Acq: 5 Apr 2019 10:53

Tgt Ion:	75	Resp:	4074
Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 1.067 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN054965.D

Acq: 5 Apr 2019 10:53

Instrument :

MSVOA_N

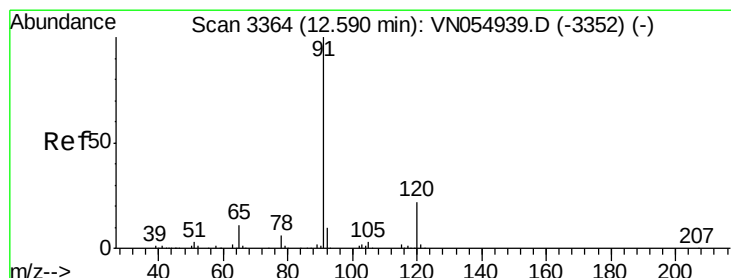
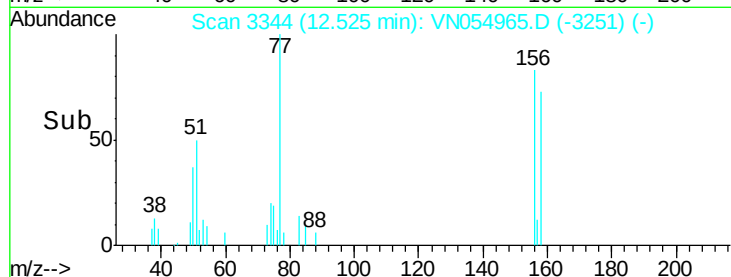
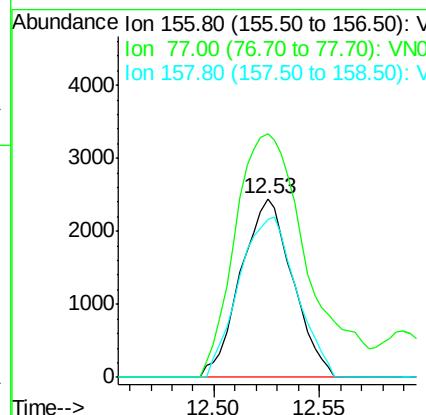
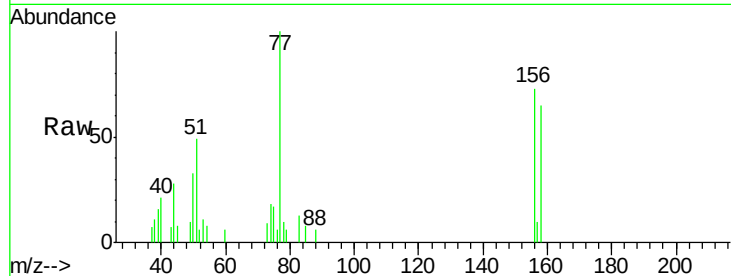
ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion:	156	Resp:	4187
Ion	Ratio	Lower	Upper
156	100		
77	188.6	93.1	279.3
158	98.9	48.4	145.3

Manual Integrations
APPROVED

MMDadoda
4/8/2019 3:34:06 AM



#78

n-propylbenzene

Concen: 1.007 ug/l

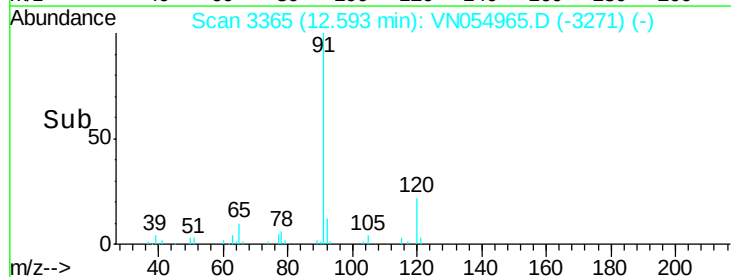
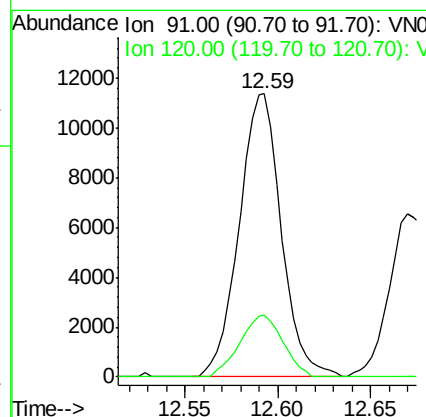
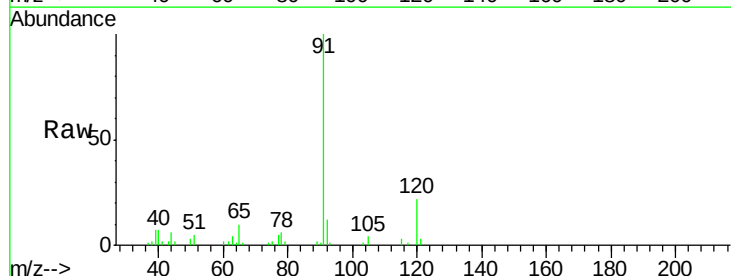
RT: 12.59 min Scan# 3365

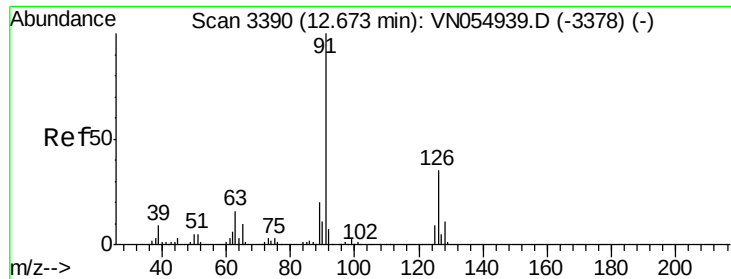
Delta R.T. 0.00 min

Lab File: VN054965.D

Acq: 5 Apr 2019 10:53

Tgt Ion:	91	Resp:	17975
Ion	Ratio	Lower	Upper
91	100		
120	22.3	11.2	33.6





#79

2-Chlorotoluene

Concen: 1.065 ug/l

RT: 12.67 min Scan# 3389

Delta R.T. -0.00 min

Lab File: VN054965.D

Acq: 5 Apr 2019 10:53

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion: 91 Resp: 11782

Ion Ratio Lower Upper

91 100

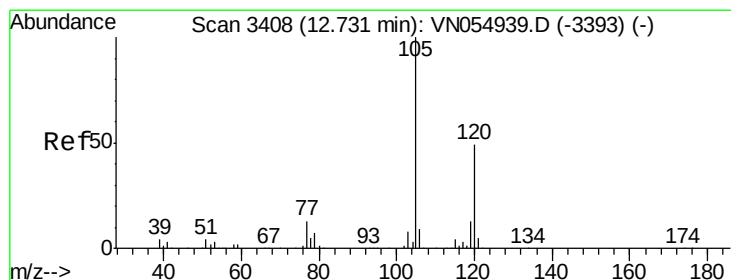
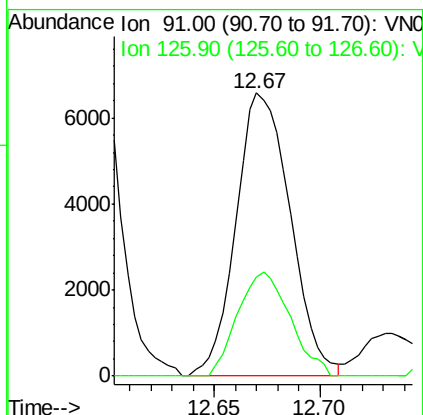
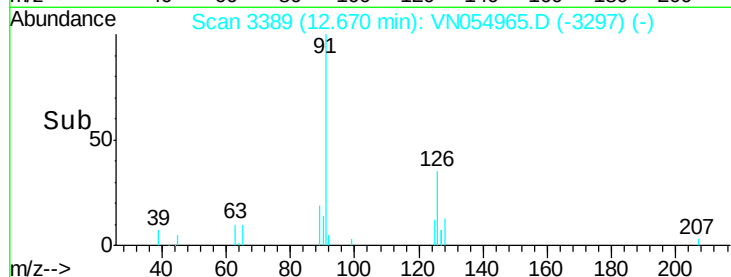
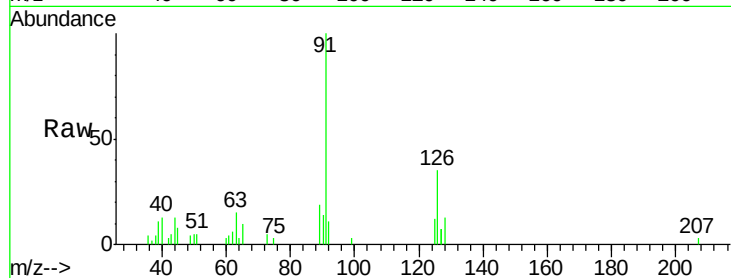
126 35.5 17.4 52.2

Manual Integrations

APPROVED

MMDadoda

4/8/2019 3:34:06 AM



#80

1,3,5-Trimethylbenzene

Concen: 1.060 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN054965.D

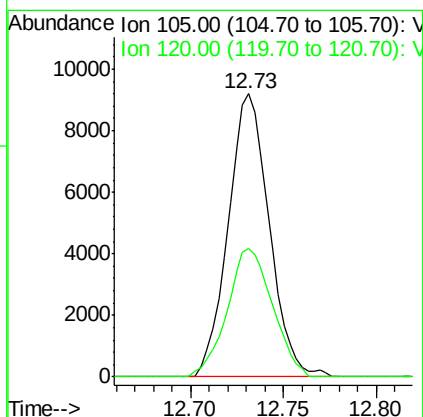
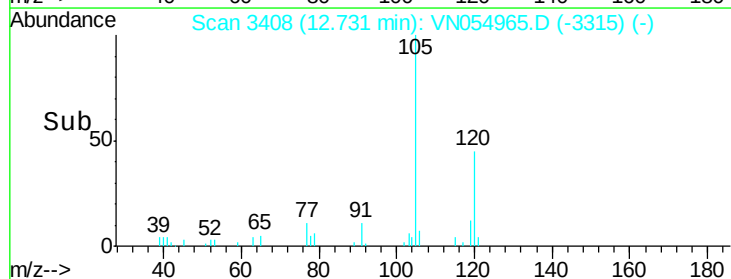
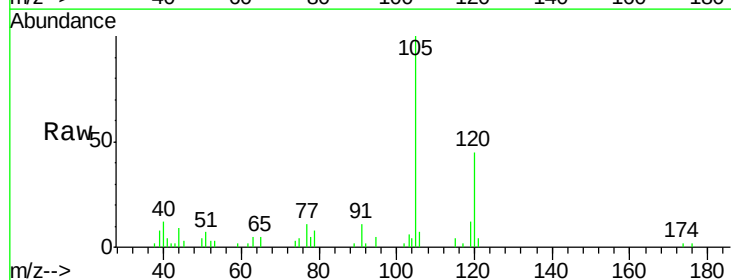
Acq: 5 Apr 2019 10:53

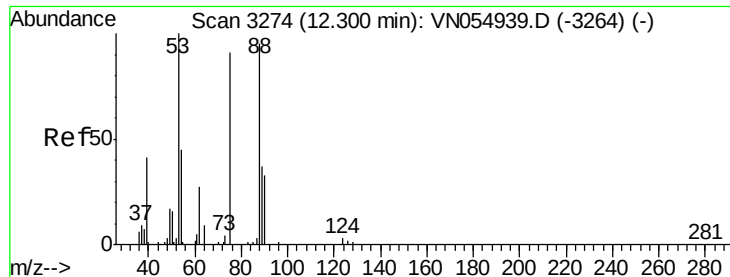
Tgt Ion: 105 Resp: 14107

Ion Ratio Lower Upper

105 100

120 50.0 24.1 72.3





#81

trans-1,4-Dichloro-2-butene

Concen: 0.742 ug/l m

RT: 12.30 min Scan# 3273

Delta R.T. -0.00 min

Lab File: VN054965.D

Acq: 5 Apr 2019 10:53

Instrument :

MSVOA_N

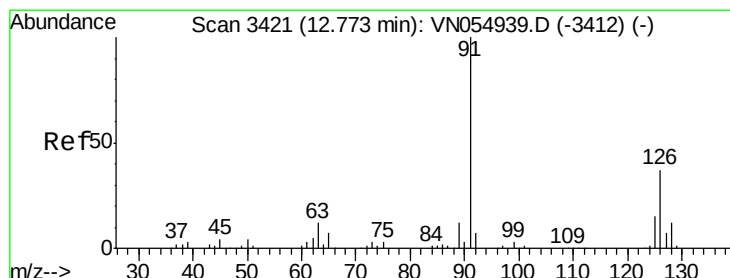
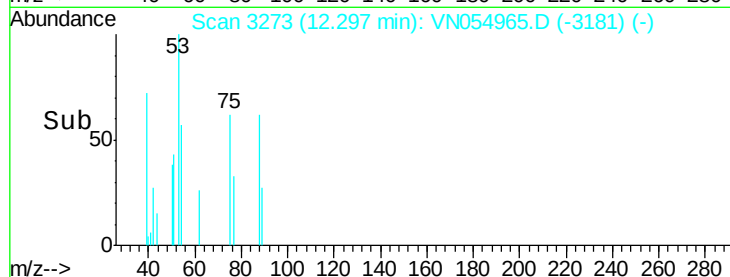
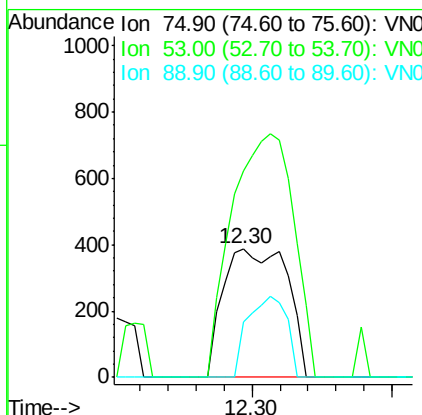
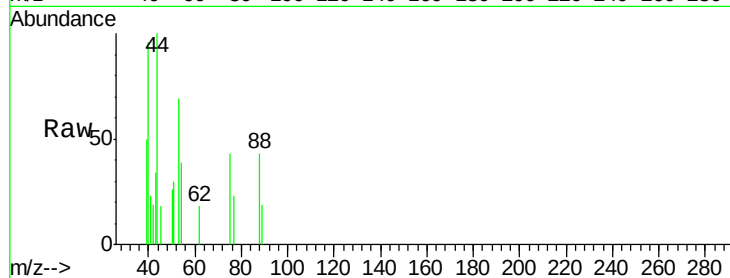
ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion:	75	Resp:	616
Ion	Ratio	Lower	Upper
75	100		
53	0.0	92.8	139.2#
89	0.0	36.7	55.1#

Manual Integrations
APPROVED

MMDadoda
4/8/2019 3:34:06 AM



#82

4-Chlorotoluene

Concen: 1.050 ug/l

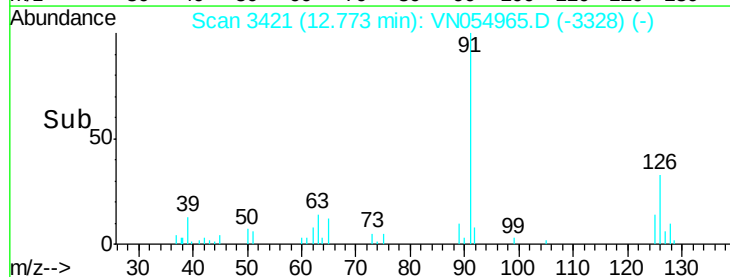
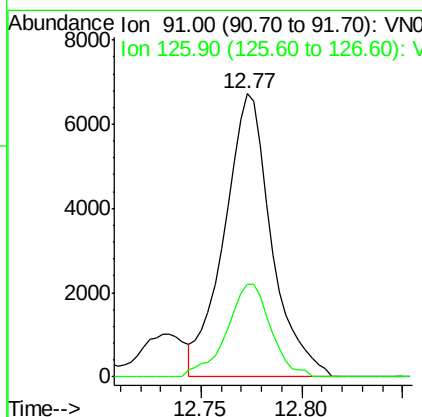
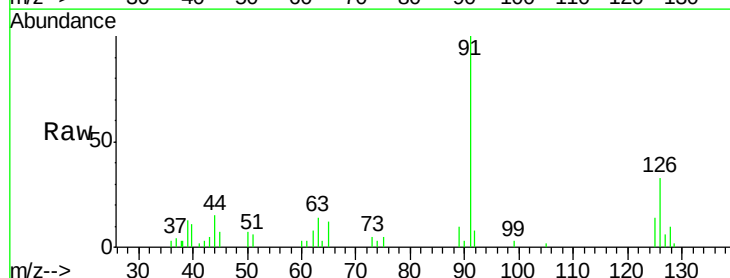
RT: 12.77 min Scan# 3421

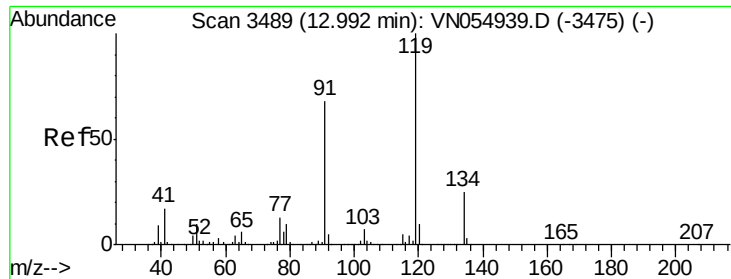
Delta R.T. -0.00 min

Lab File: VN054965.D

Acq: 5 Apr 2019 10:53

Tgt Ion:	91	Resp:	10986
Ion	Ratio	Lower	Upper
91	100		
126	30.7	16.9	50.7





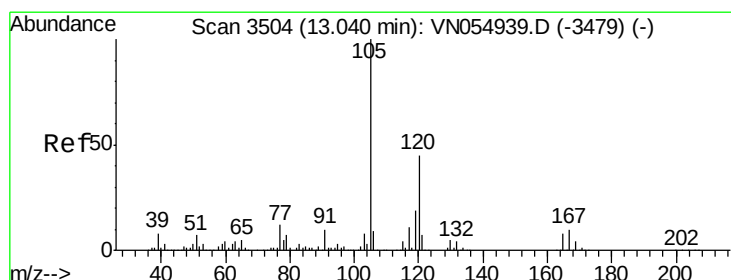
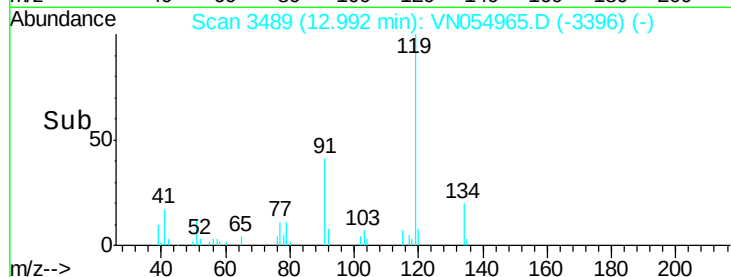
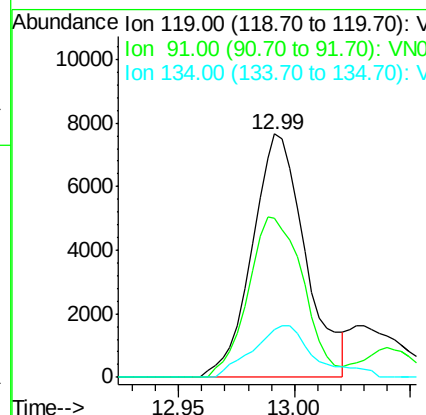
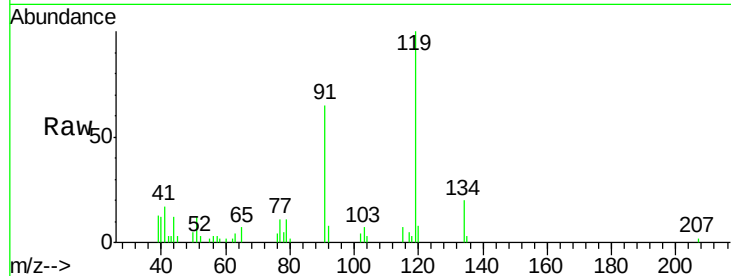
#83
 tert-Butylbenzene
 Concen: 1.077 ug/l
 RT: 12.99 min Scan# 3489
 Delta R.T. -0.00 min
 Lab File: VN054965.D
 Acq: 5 Apr 2019 10:53

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

Tot Ion	Ratio	Resp	Lower	Upper
119	100	12189		
91	68.3		33.5	100.5
134	24.6		12.4	37.0

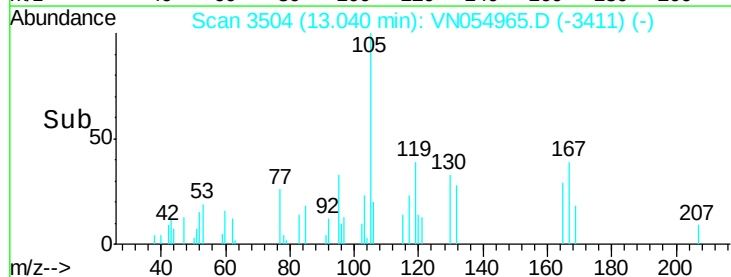
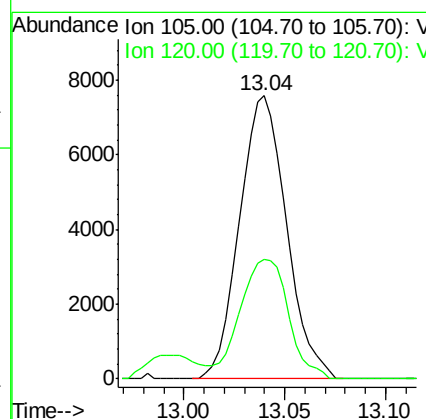
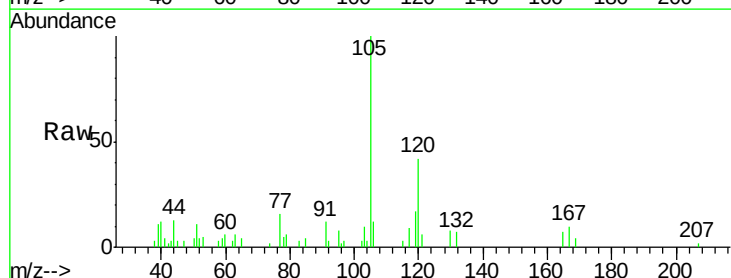
Manual Integrations
 APPROVED

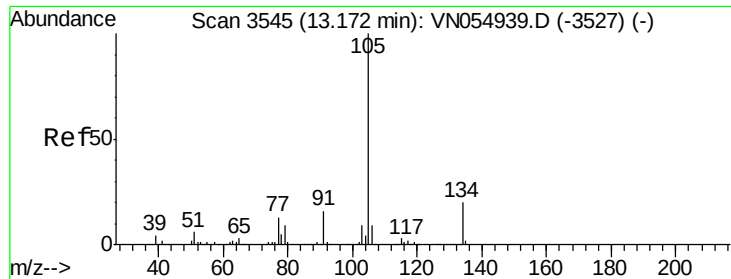
MMDadoda
 4/8/2019 3:34:06 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 0.960 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.00 min
 Lab File: VN054965.D
 Acq: 5 Apr 2019 10:53

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	12361		
120	43.9		22.4	67.3





#85

sec-Butylbenzene

Concen: 0.924 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN054965.D

Acq: 5 Apr 2019 10:53

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion:105 Resp: 13535

Ion Ratio Lower Upper

105 100

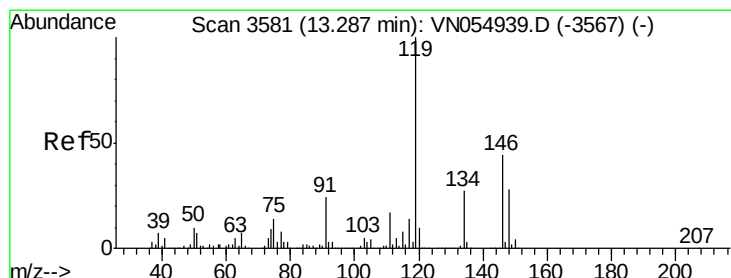
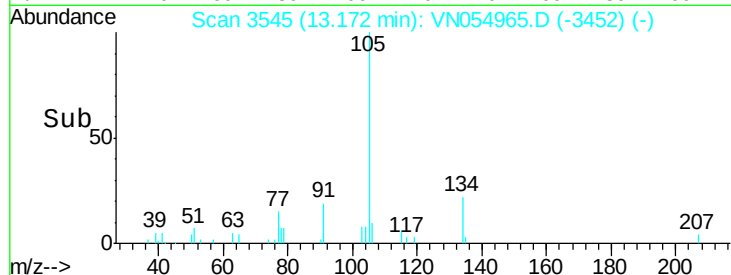
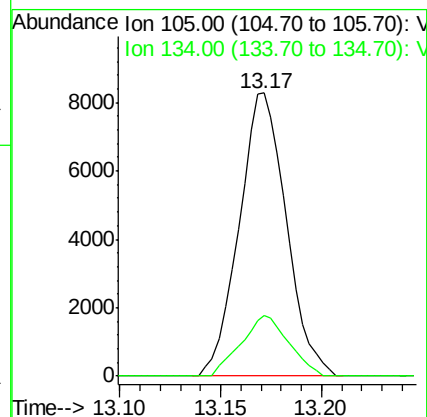
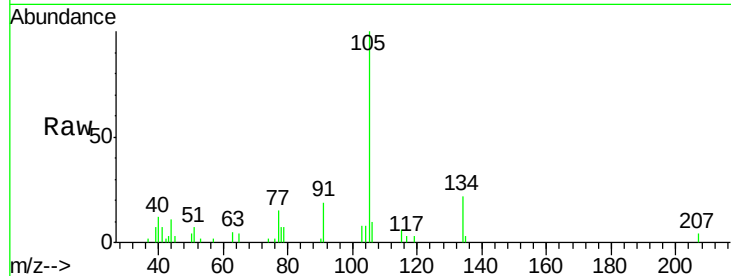
134 21.6 9.8 29.5

Manual Integrations

APPROVED

MMDadoda

4/8/2019 3:34:06 AM



#86

p-Isopropyltoluene

Concen: 0.954 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN054965.D

Acq: 5 Apr 2019 10:53

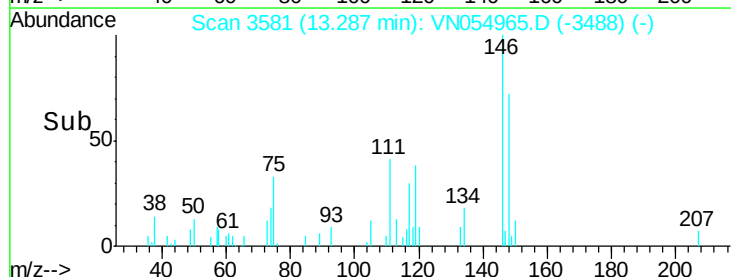
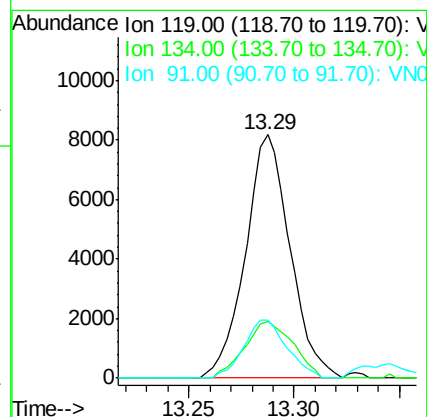
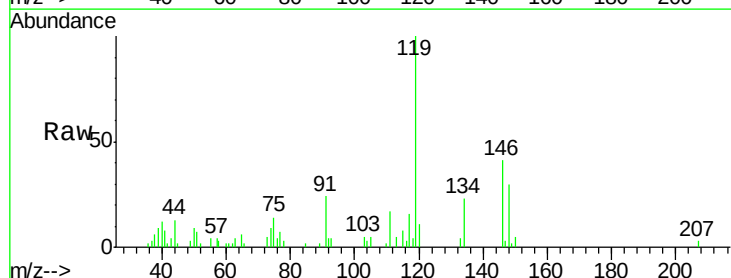
Tgt Ion:119 Resp: 12037

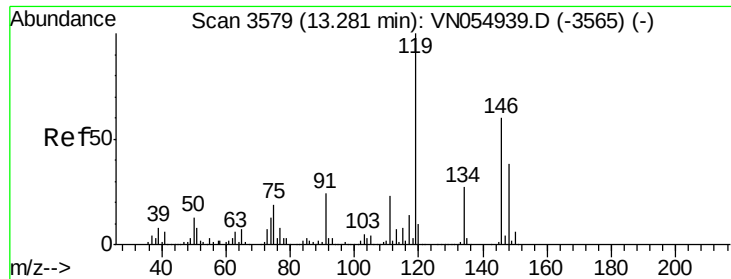
Ion Ratio Lower Upper

119 100

134 25.2 13.5 40.5

91 22.9 11.9 35.7





#87

1,3-Dichlorobenzene

Concen: 0.965 ug/l

RT: 13.28 min Scan# 3579

Delta R.T. -0.00 min

Lab File: VN054965.D

Acq: 5 Apr 2019 10:53

Instrument :

MSVOA_N

ClientSampleId :

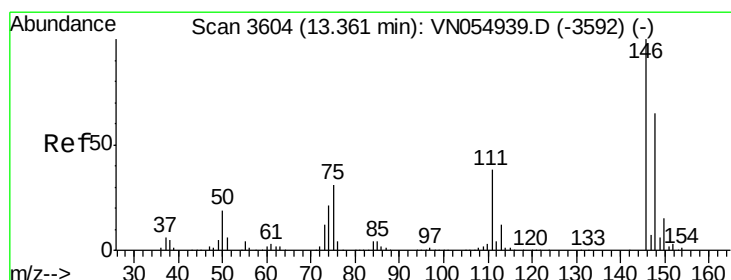
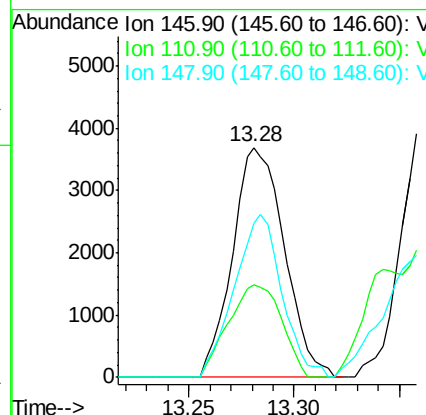
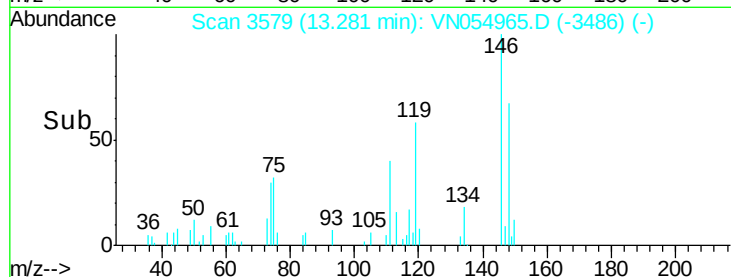
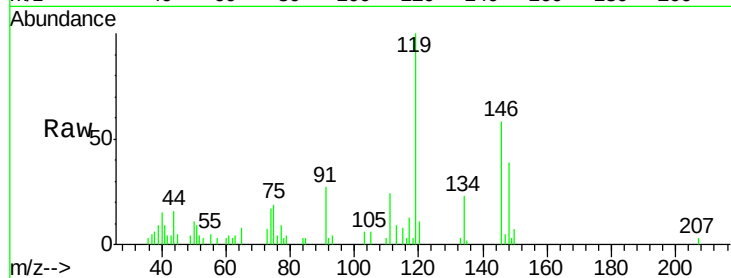
LOD-MDL-WATER-01-QT2-2019

Tot Ion:146 Resp: 6298

Ion	Ratio	Lower	Upper
146	100		
111	41.4	19.6	58.7
148	64.8	31.7	95.1

Manual Integrations
APPROVED

MMDadoda
4/8/2019 3:34:06 AM



#88

1,4-Dichlorobenzene

Concen: 1.081 ug/l

RT: 13.36 min Scan# 3604

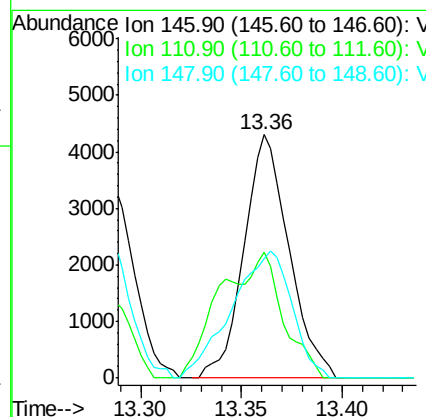
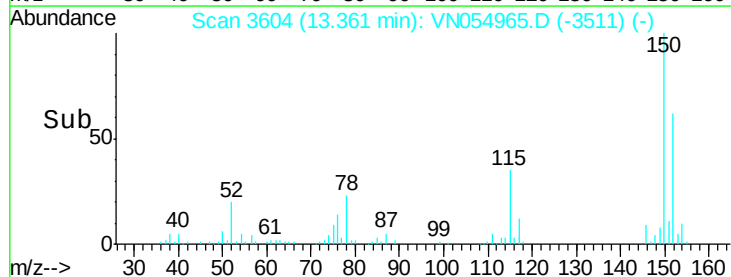
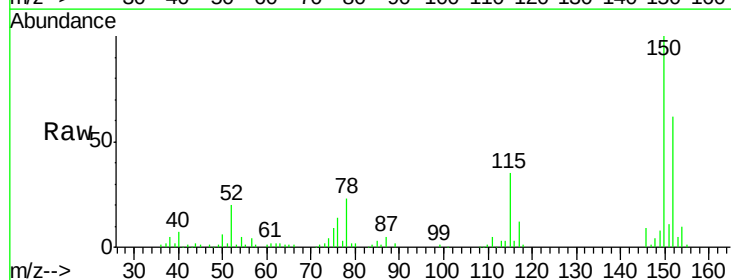
Delta R.T. -0.00 min

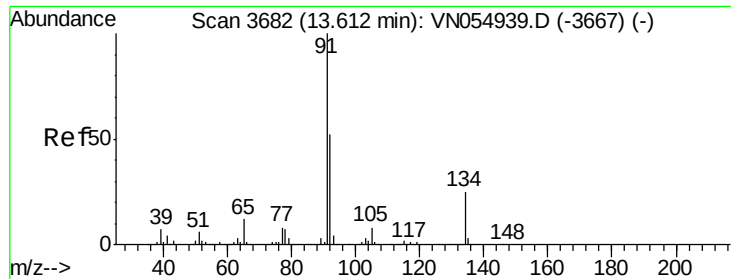
Lab File: VN054965.D

Acq: 5 Apr 2019 10:53

Tgt Ion:146 Resp: 6717

Ion	Ratio	Lower	Upper
146	100		
111	37.3	19.2	57.6
148	69.7	31.9	95.7





#89

n-Butylbenzene

Concen: 0.814 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. 0.00 min

Lab File: VN054965.D

Acq: 5 Apr 2019 10:53

Instrument :

MSVOA_N

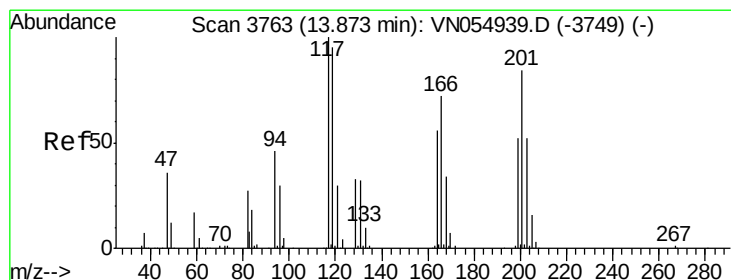
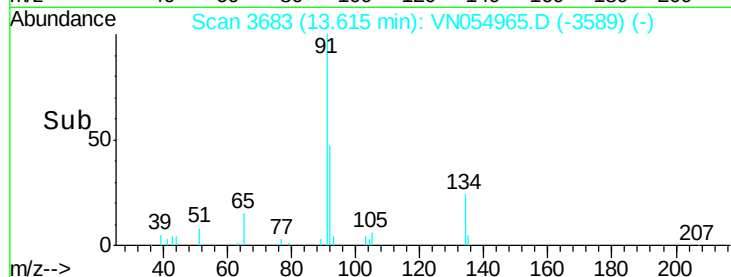
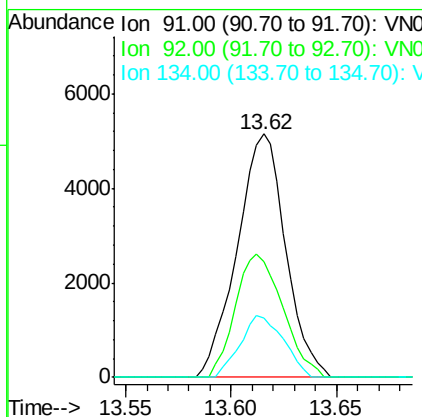
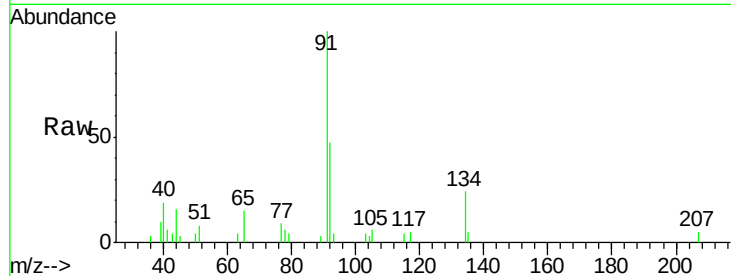
ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion:	91	Resp:	8209
Ion	Ratio	Lower	Upper
91	100		
92	49.4	26.1	78.2
134	22.6	12.6	37.8

Manual Integrations
APPROVED

MMDadoda
4/8/2019 3:34:06 AM



#90

Hexachloroethane

Concen: 0.988 ug/l

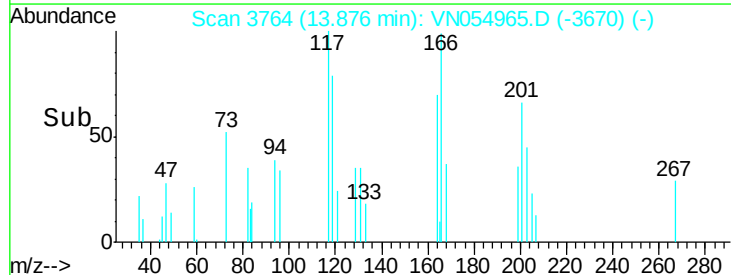
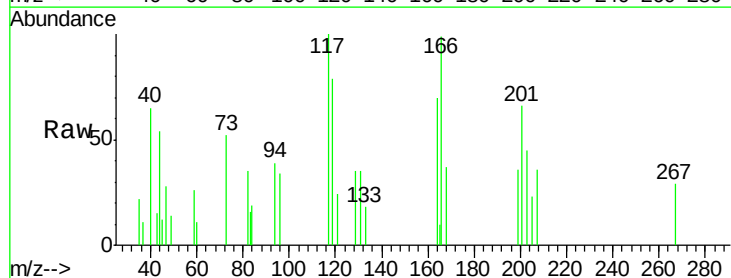
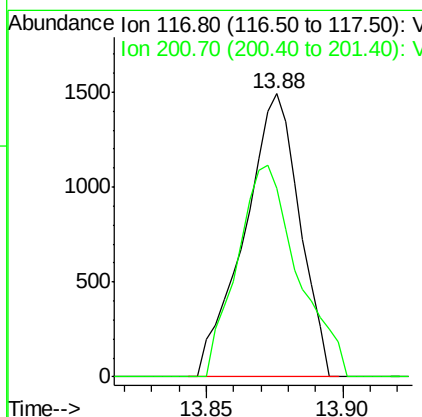
RT: 13.88 min Scan# 3764

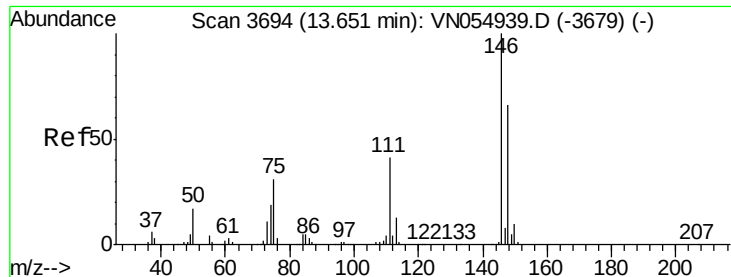
Delta R.T. 0.00 min

Lab File: VN054965.D

Acq: 5 Apr 2019 10:53

Tgt Ion:	117	Resp:	2093
Ion	Ratio	Lower	Upper
117	100		
201	82.1	42.5	127.6





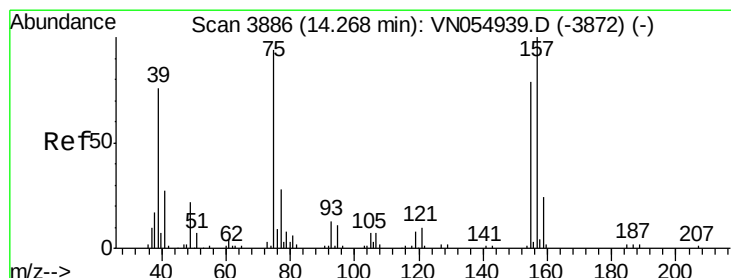
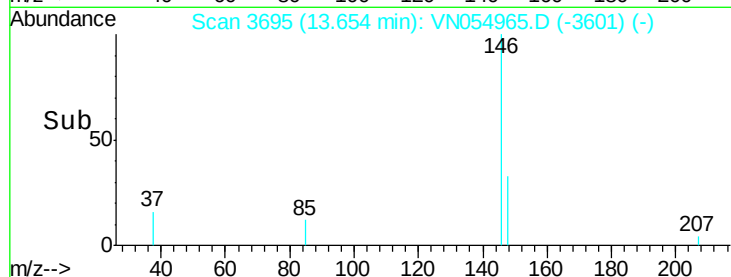
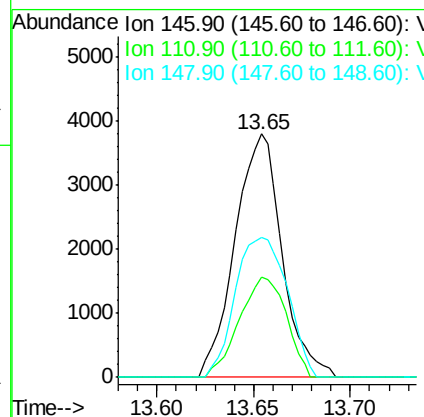
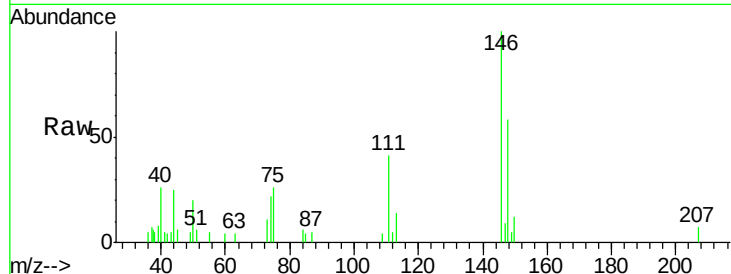
#91
 1,2-Dichlorobenzene
 Concen: 1.002 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN054965.D
 Acq: 5 Apr 2019 10:53

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

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.2	20.2	60.5
148	63.6	32.1	96.5

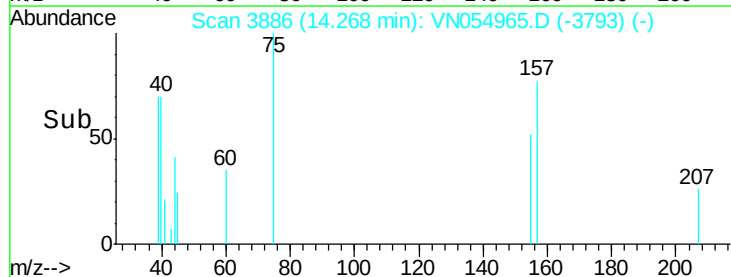
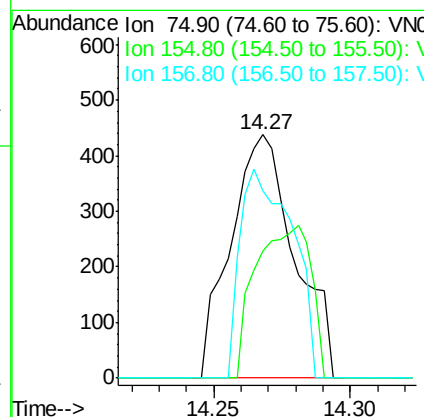
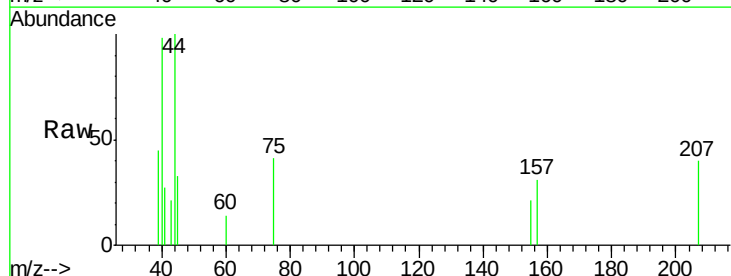
Manual Integrations
 APPROVED

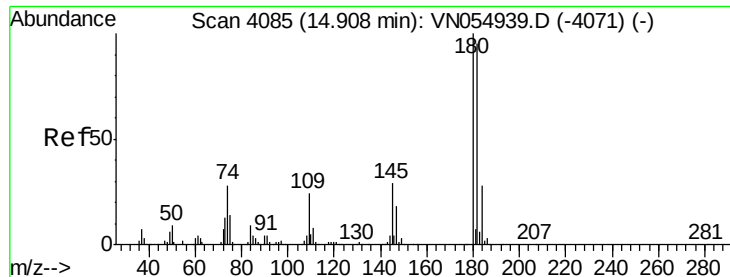
MMDadoda
 4/8/2019 3:34:06 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.285 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. -0.00 min
 Lab File: VN054965.D
 Acq: 5 Apr 2019 10:53

Tgt Ion	Ratio	Lower	Upper
75	100		
155	54.4	41.5	124.6
157	70.7	54.4	163.2





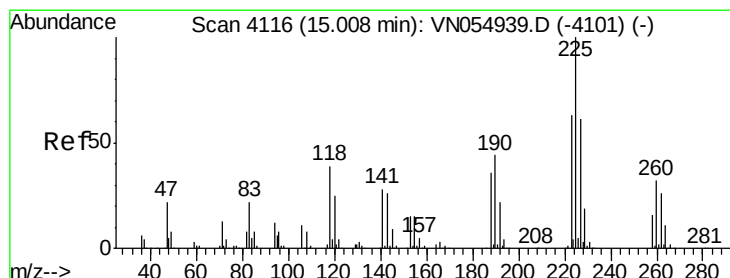
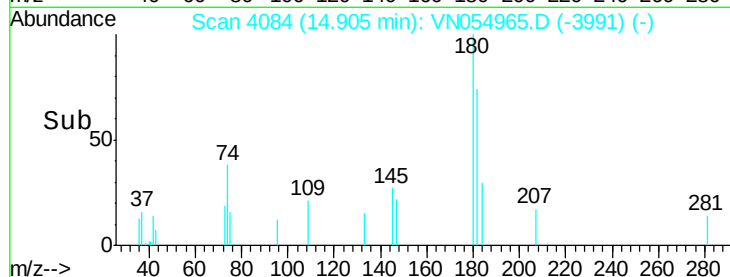
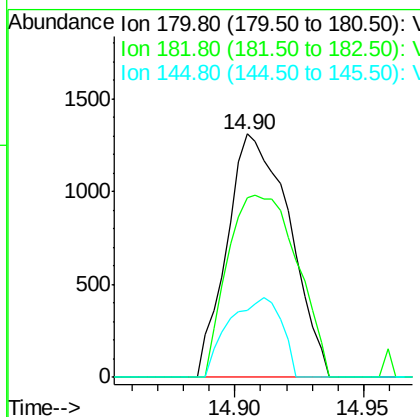
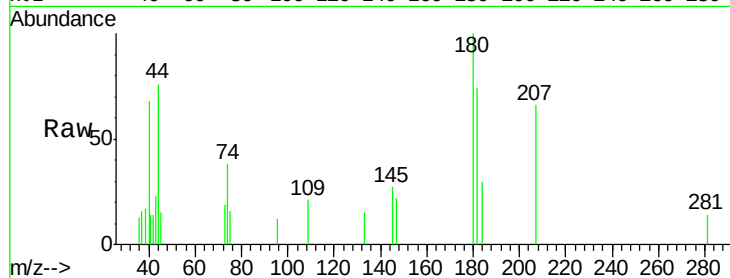
#93
 1,2,4-Trichlorobenzene
 Concen: 3.080 ug/l
 RT: 14.90 min Scan# 4084
 Delta R.T. -0.00 min
 Lab File: VN054965.D
 Acq: 5 Apr 2019 10:53

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

Tot Ion	Ratio	Lower	Upper
180	100		
182	83.5	47.5	142.6
145	27.7	14.6	43.8

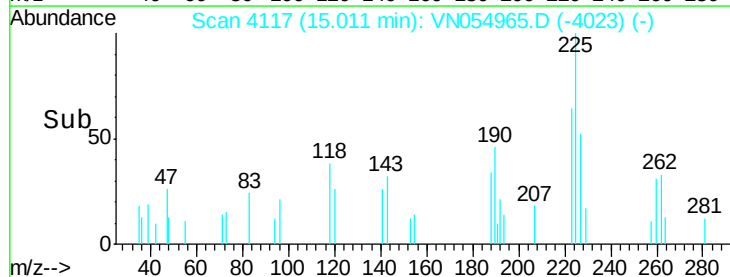
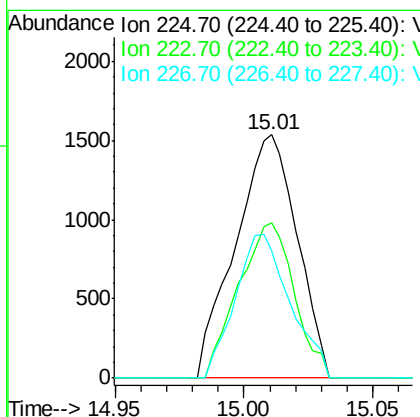
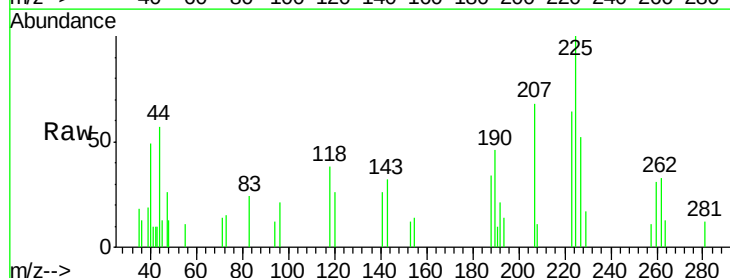
Manual Integrations
 APPROVED

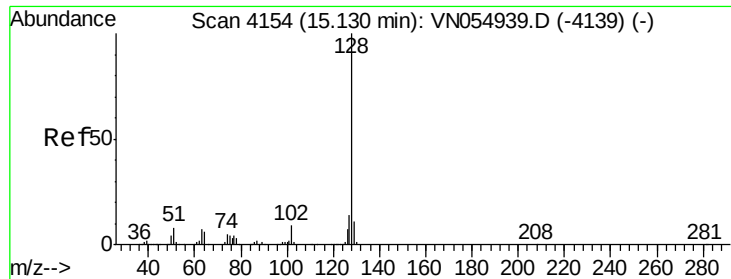
MMDadoda
 4/8/2019 3:34:06 AM



#94
 Hexachlorobutadiene
 Concen: 1.195 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN054965.D
 Acq: 5 Apr 2019 10:53

Tgt Ion	Ratio	Lower	Upper
225	100		
223	57.8	31.1	93.5
227	52.6	30.9	92.5





#95

Naphthalene

Concen: 3.467 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN054965.D

Acq: 5 Apr 2019 10:53

Instrument :

MSVOA_N

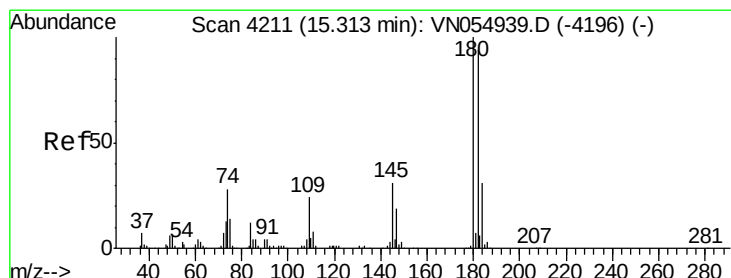
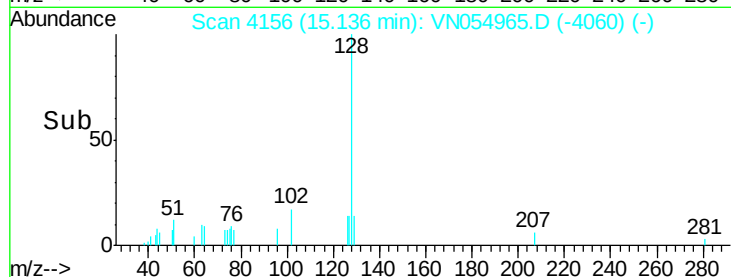
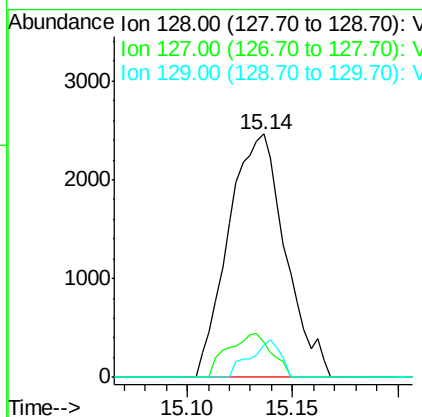
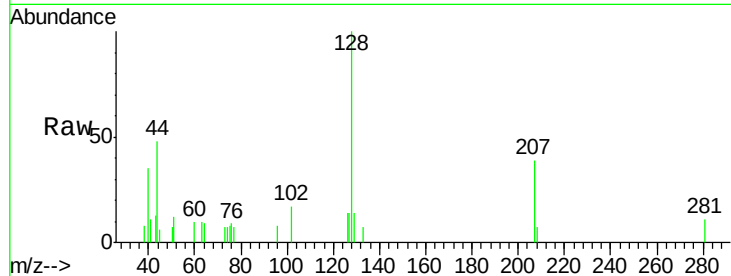
ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion:	128	Resp:	4608
Ion Ratio	Lower	Upper	
128	100		
127	13.8	10.6	16.0
129	8.2	8.6	13.0#

Manual Integrations
APPROVED

MMDadoda
4/8/2019 3:34:06 AM



#96

1,2,3-Trichlorobenzene

Concen: 0.881 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. -0.00 min

Lab File: VN054965.D

Acq: 5 Apr 2019 10:53

Tgt Ion:	180	Resp:	2593
Ion Ratio	Lower	Upper	
180	100		
182	89.0	47.5	142.5
145	30.5	15.6	46.8

