

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032919\
 Data File : VN054772.D
 Acq On : 29 Mar 2019 16:13
 Operator : JC/SP
 Sample : K1560-07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT1-2019

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 3:59:14 PM

Quant Time: Mar 30 03:32:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032919W.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 30 00:48:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	394546	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	675761	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	569209	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	202161	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	286917	53.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.90%	
35) Dibromofluoromethane	7.59	113	216837	48.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.26%	
50) Toluene-d8	10.09	98	800068	47.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.54%	
62) 4-Bromofluorobenzene	12.40	95	243666	43.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.48%	

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	1.85	85	4733	1.186	ug/l	91
3) Chloromethane	2.06	50	6022	1.091	ug/l	91
4) Vinyl Chloride	2.19	62	5408	1.091	ug/l	96
5) Bromomethane	2.58	94	3785	Below Cal		92
6) Chloroethane	2.71	64	3122	1.128	ug/l	89
7) Trichlorofluoromethane	3.02	101	7018	1.152	ug/l	98
8) Diethyl Ether	3.42	74	2500	1.274	ug/l	83
9) 1,1,2-Trichlorotrifluoroet	3.75	101	3519	1.097	ug/l #	55
10) Methyl Iodide	3.94	142	3483	0.793	ug/l	99
11) Tert butyl alcohol	4.82	59	877	3.165	ug/l #	70
12) 1,1-Dichloroethene	3.73	96	3705	1.195	ug/l #	80
13) Acrolein	3.62	56	77	0.311	ug/l #	14
14) Allyl chloride	4.32	41	8867	1.161	ug/l #	87
15) Acrylonitrile	4.99	53	8521	5.532	ug/l #	76
16) Acetone	3.83	43	10376	8.181	ug/l #	66
17) Carbon Disulfide	4.04	76	11812	1.174	ug/l #	85
18) Methyl Acetate	4.33	43	5490	0.757	ug/l #	77
19) Methyl tert-butyl Ether	5.06	73	11547	1.064	ug/l	98
20) Methylene Chloride	4.54	84	6424	1.436	ug/l #	86
21) trans-1,2-Dichloroethene	5.03	96	2421	0.594	ug/l	87
22) Diisopropyl ether	5.97	45	16347m	1.082	ug/l	
23) Vinyl Acetate	5.90	43	52418	4.985	ug/l #	89
24) 1,1-Dichloroethane	5.85	63	8686	1.078	ug/l #	92
25) 2-Butanone	6.85	43	10962	5.847	ug/l #	76
26) 2,2-Dichloropropane	6.82	77	5721	1.013	ug/l	84
27) cis-1,2-Dichloroethene	6.83	96	4503	0.979	ug/l	70
28) Bromochloromethane	7.20	49	4555	1.130	ug/l #	67
29) Tetrahydrofuran	7.24	42	8250m	6.336	ug/l	
30) Chloroform	7.37	83	7983	1.039	ug/l	91
31) Cyclohexane	7.65	56	16618	0.211	ug/l #	67
32) 1,1,1-Trichloroethane	7.57	97	6254	0.982	ug/l #	40
36) 1,1-Dichloropropene	7.80	75	6072	0.964	ug/l	97
37) Ethyl Acetate	6.95	43	4243	0.919	ug/l #	69
38) Carbon Tetrachloride	7.77	117	6889	1.126	ug/l #	89

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032919\
 Data File : VN054772.D
 Acq On : 29 Mar 2019 16:13
 Operator : JC/SP
 Sample : K1560-07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT1-2019

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 3:59:14 PM

Quant Time: Mar 30 03:32:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032919W.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 30 00:48:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	7511	1.085	ug/l	95
40) Benzene	8.04	78	17847	0.991	ug/l	98
41) Methacrylonitrile	7.19	41	2348	0.905	ug/l #	40
42) 1,2-Dichloroethane	8.13	62	7467	1.161	ug/l	88
43) Isopropyl Acetate	8.18	43	7945	1.059	ug/l #	73
44) Trichloroethene	8.83	130	4889	1.045	ug/l	90
45) 1,2-Dichloropropane	9.12	63	5263	1.024	ug/l	99
46) Dibromomethane	9.21	93	2812	0.973	ug/l	88
47) Bromodichloromethane	9.40	83	5614	0.935	ug/l	98
48) Methyl methacrylate	9.20	41	3120	0.767	ug/l #	91
49) 1,4-Dioxane	9.20	88	897	22.228	ug/l #	77
51) 4-Methyl-2-Pentanone	9.99	43	22830	5.412	ug/l	97
52) Toluene	10.16	92	10572	0.986	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	4430	0.784	ug/l	89
54) cis-1,3-Dichloropropene	9.84	75	5807	0.860	ug/l	90
55) 1,1,2-Trichloroethane	10.56	97	3809	0.955	ug/l #	91
56) Ethyl methacrylate	10.43	69	4664	0.892	ug/l #	55
57) 1,3-Dichloropropane	10.71	76	6838	0.998	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.69	63	8531	13.985	ug/l	94
59) 2-Hexanone	10.75	43	14139	5.236	ug/l	83
60) Dibromochloromethane	10.90	129	3531	0.874	ug/l	98
61) 1,2-Dibromoethane	11.01	107	3683	0.967	ug/l	100
64) Tetrachloroethene	10.63	164	4734	1.084	ug/l	91
65) Chlorobenzene	11.44	112	10461	0.939	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.51	131	3848	0.922	ug/l #	59
67) Ethyl Benzene	11.51	91	18974	0.943	ug/l	98
68) m/p-Xylenes	11.62	106	14160	1.903	ug/l	98
69) o-Xylene	11.95	106	6767	0.927	ug/l	93
70) Styrene	11.97	104	10021	0.859	ug/l	96
71) Bromoform	12.13	173	1988	0.814	ug/l #	60
73) Isopropylbenzene	12.25	105	17971	1.088	ug/l	97
74) N-amyl acetate	12.07	43	4098	0.796	ug/l #	89
75) 1,1,2,2-Tetrachloroethane	12.50	83	5176	Below Cal	#	89
76) 1,2,3-Trichloropropane	12.55	75	4506m	1.283	ug/l	
77) Bromobenzene	12.53	156	4204	1.054	ug/l	72
78) n-propylbenzene	12.59	91	18811	1.036	ug/l	94
79) 2-Chlorotoluene	12.67	91	12393	1.103	ug/l	95
80) 1,3,5-Trimethylbenzene	12.73	105	13874	1.023	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.30	75	834m	0.924	ug/l	
82) 4-Chlorotoluene	12.77	91	11263	1.032	ug/l	97
83) tert-Butylbenzene	12.99	119	13665	Below Cal		97
84) 1,2,4-Trimethylbenzene	13.04	105	13030	1.009	ug/l	97
85) sec-Butylbenzene	13.17	105	15427	1.047	ug/l	95
86) p-Isopropyltoluene	13.29	119	13529	1.041	ug/l	95
87) 1,3-Dichlorobenzene	13.28	146	6690	1.002	ug/l	98
88) 1,4-Dichlorobenzene	13.36	146	7140m	1.090	ug/l	
89) n-Butylbenzene	13.62	91	9026	0.852	ug/l	98
90) Hexachloroethane	13.87	117	1923	0.872	ug/l #	42
91) 1,2-Dichlorobenzene	13.65	146	7126	1.058	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	14.27	75	290	0.513	ug/l #	59

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032919\
Data File : VN054772.D
Acq On : 29 Mar 2019 16:13
Operator : JC/SP
Sample : K1560-07
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT1-2019

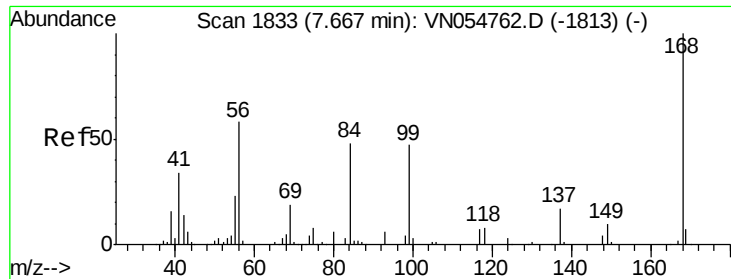
Manual Integrations
APPROVED

MMDadoda
4/1/2019 3:59:14 PM

Quant Time: Mar 30 03:32:26 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032919W.M
Quant Title : SW846 8260
QLast Update : Sat Mar 30 00:48:18 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	2604	0.802 ug/l	92
94) Hexachlorobutadiene	15.00	225	2107	Below Cal	94
95) Naphthalene	15.13	128	6877	0.944 ug/l #	95
96) 1,2,3-Trichlorobenzene	15.32	180	3326	1.014 ug/l	87

(#) = 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: VN054772.D

Acq: 29 Mar 2019 16:13

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

Tot Ion:168 Resp: 394546

Ion Ratio Lower Upper

168 100

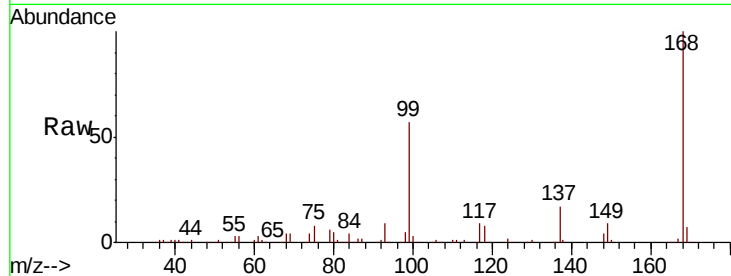
99 56.5 37.1 55.7#

Manual Integrations

APPROVED

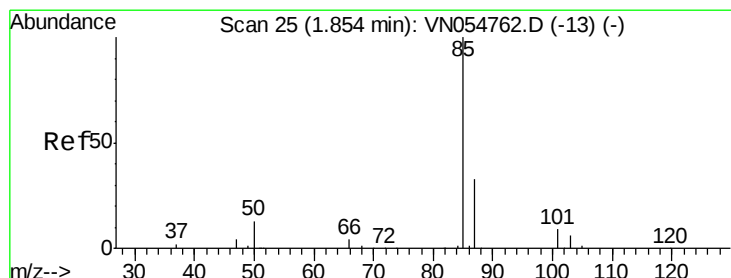
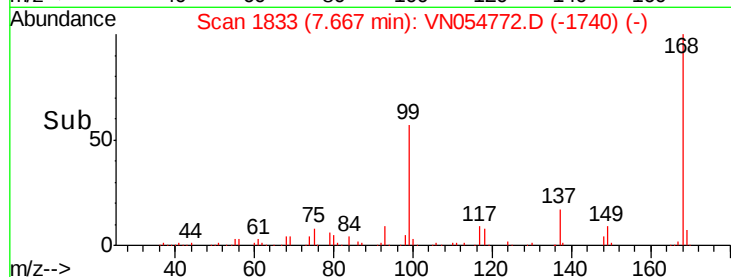
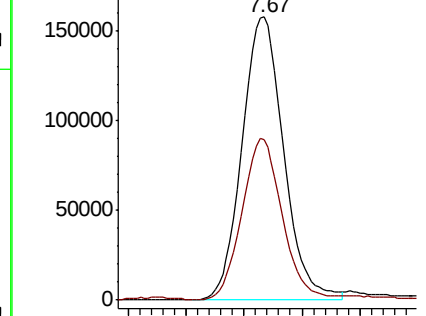
MMDadoda

4/1/2019 3:59:14 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 1.186 ug/l

RT: 1.85 min Scan# 24

Delta R.T. -0.00 min

Lab File: VN054772.D

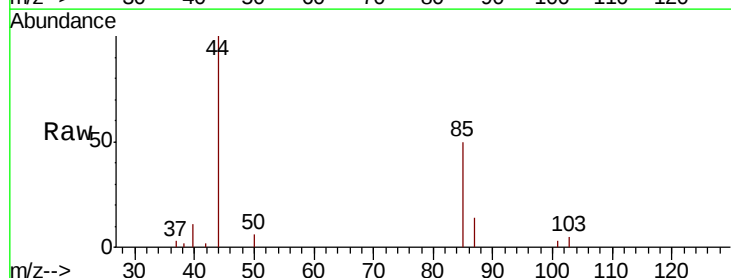
Acq: 29 Mar 2019 16:13

Tgt Ion: 85 Resp: 4733

Ion Ratio Lower Upper

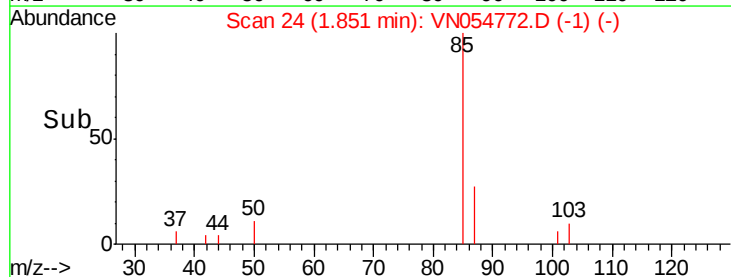
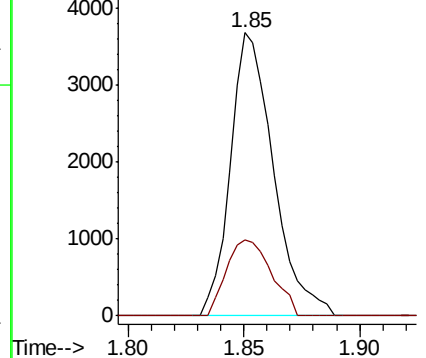
85 100

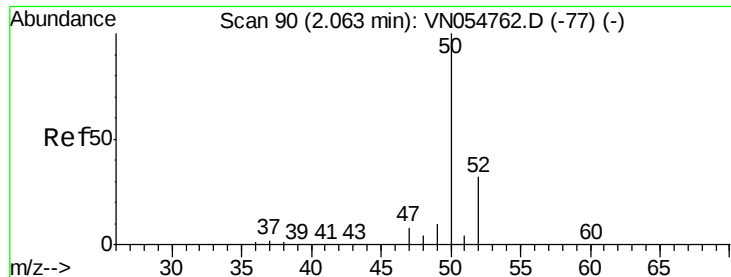
87 27.0 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#3

Chloromethane

Concen: 1.091 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN054772.D

Acq: 29 Mar 2019 16:13

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

Tot Ion: 50 Resp: 6022

Ion Ratio Lower Upper

50 100

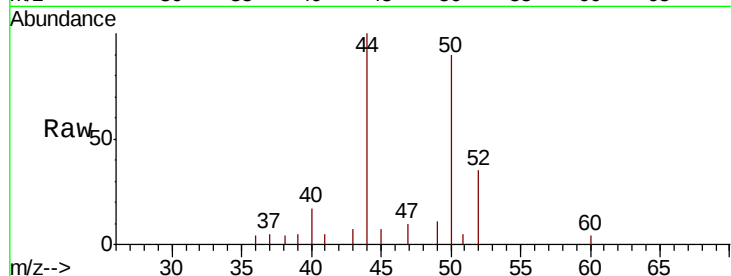
52 38.3 26.4 39.6

Manual Integrations

APPROVED

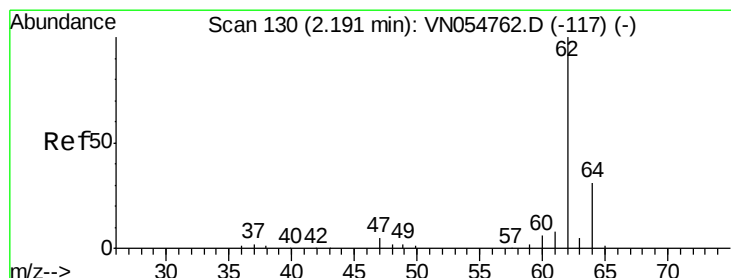
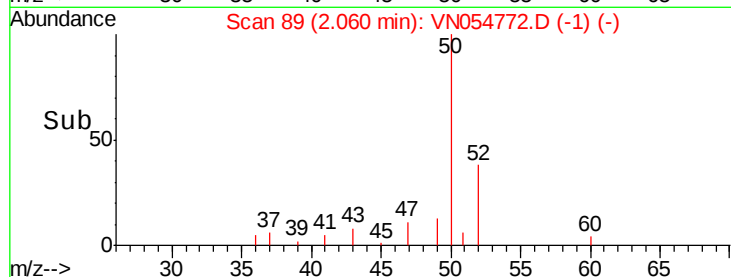
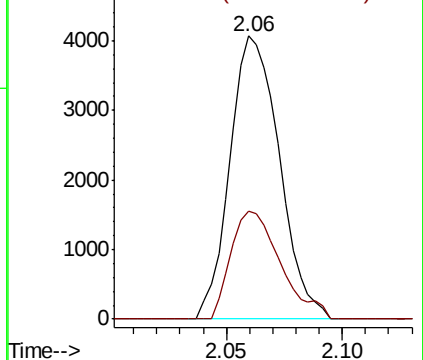
MMDadoda

4/1/2019 3:59:14 PM



Abundance Ion 49.90 (49.60 to 50.60): VNC

Ion 51.90 (51.60 to 52.60): VNC



#4

Vinyl Chloride

Concen: 1.091 ug/l

RT: 2.19 min Scan# 130

Delta R.T. -0.00 min

Lab File: VN054772.D

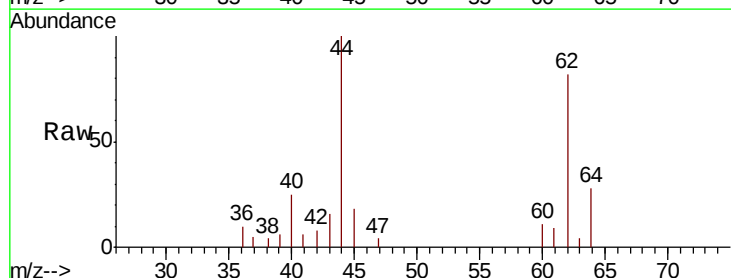
Acq: 29 Mar 2019 16:13

Tgt Ion: 62 Resp: 5408

Ion Ratio Lower Upper

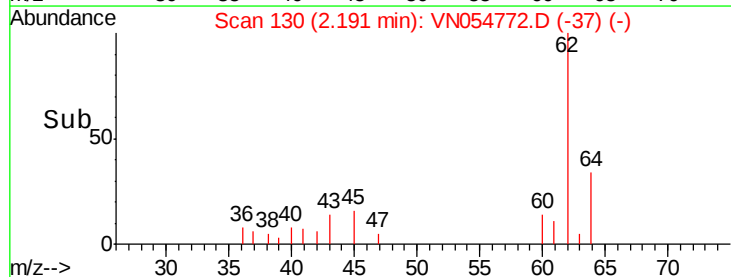
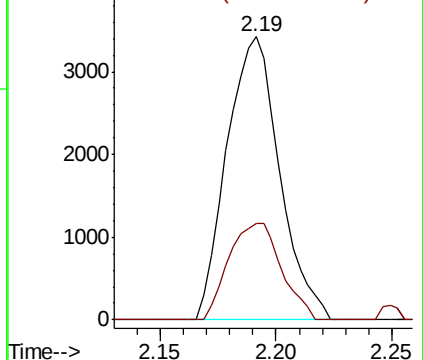
62 100

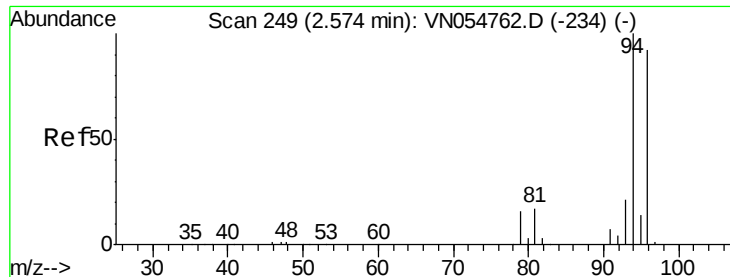
64 34.1 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VNC

Ion 63.90 (63.60 to 64.60): VNC





#5

Bromomethane

Concen: Below Cal

RT: 2.58 min Scan# 251

Delta R.T. 0.01 min

Lab File: VN054772.D

Acq: 29 Mar 2019 16:13

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

Tot Ion: 94 Resp: 3785

Ion Ratio Lower Upper

94 100

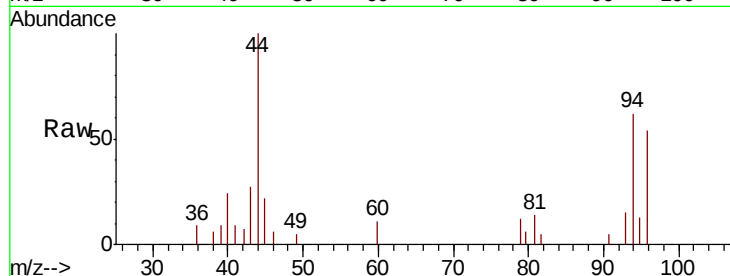
96 87.9 77.0 115.4

Manual Integrations

APPROVED

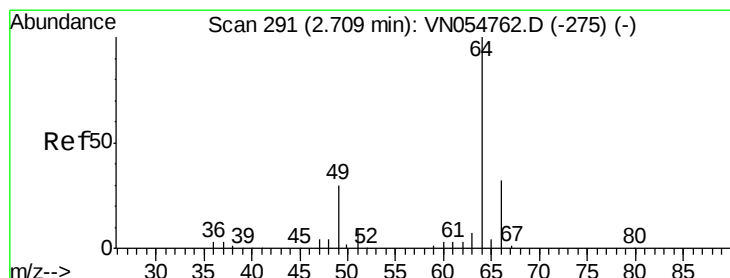
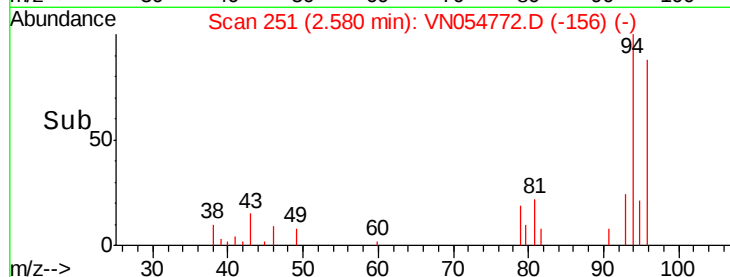
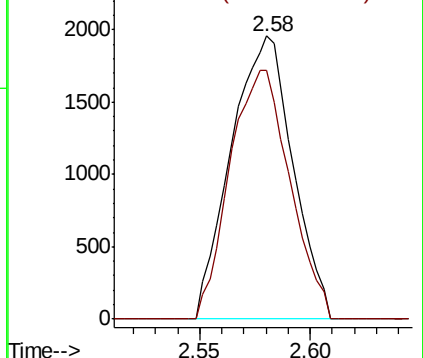
MMDadoda

4/1/2019 3:59:14 PM



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 1.128 ug/l

RT: 2.71 min Scan# 291

Delta R.T. -0.00 min

Lab File: VN054772.D

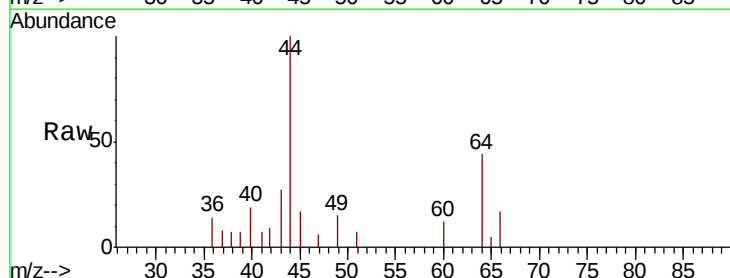
Acq: 29 Mar 2019 16:13

Tgt Ion: 64 Resp: 3122

Ion Ratio Lower Upper

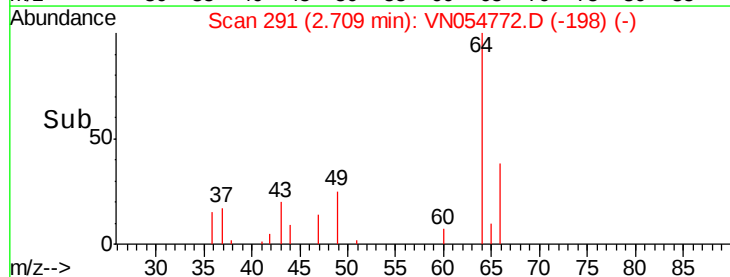
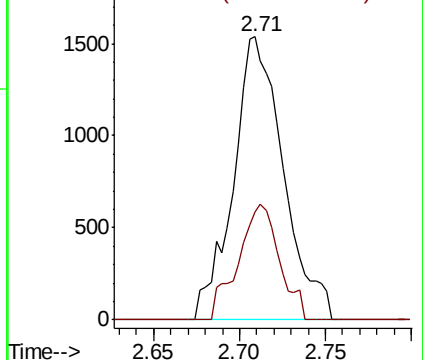
64 100

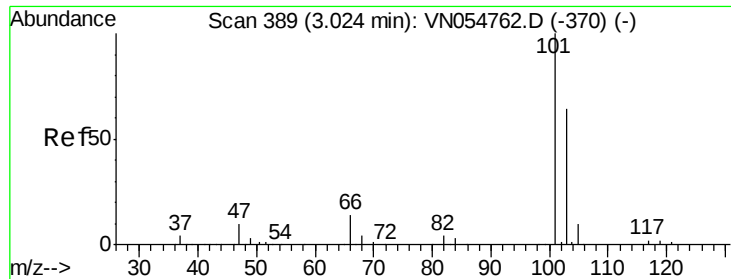
66 38.4 25.7 38.5



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

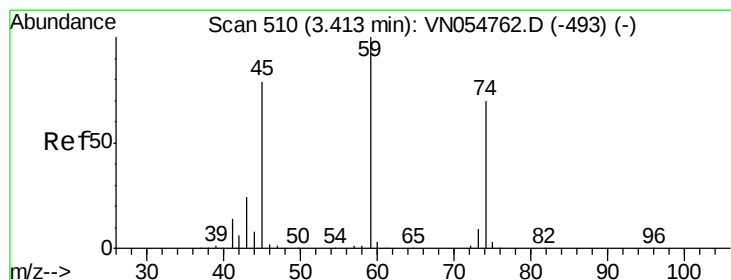
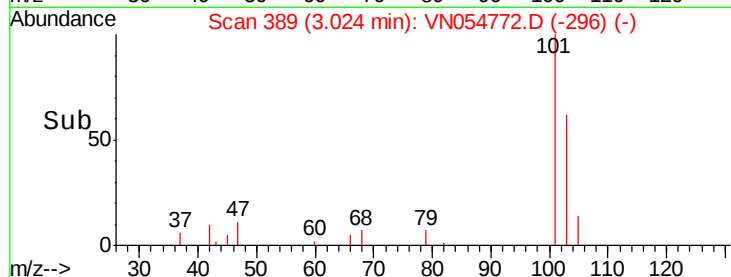
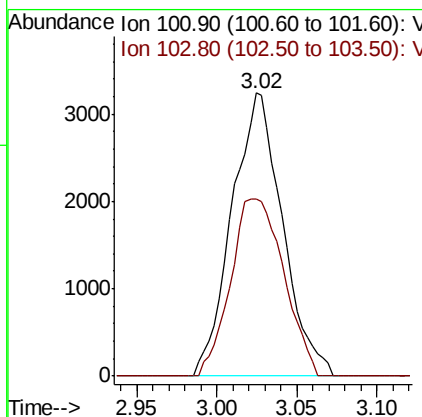
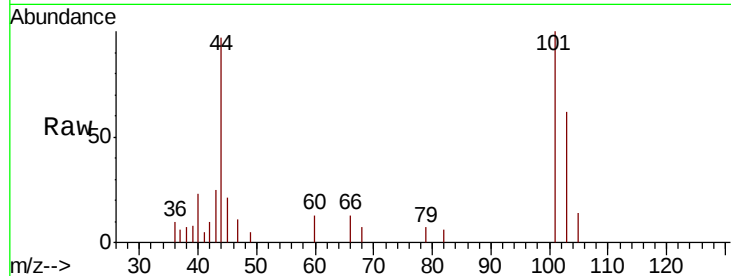
Trichlorofluoromethane
 Concen: 1.152 ug/l
 RT: 3.02 min Scan# 389
 Delta R.T. -0.00 min
 Lab File: VN054772.D
 Acq: 29 Mar 2019 16:13

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT1-2019

Tot Ion	Ratio	Lower	Upper
101	100		
103	62.5	51.4	77.2

Manual Integrations
 APPROVED

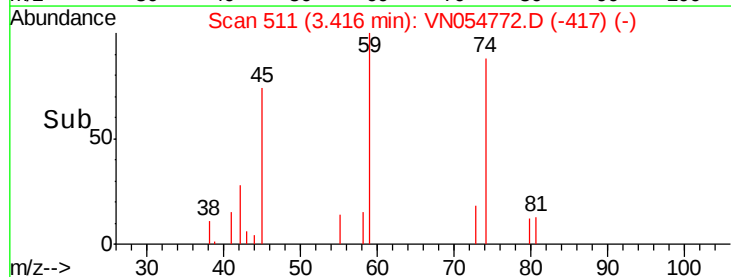
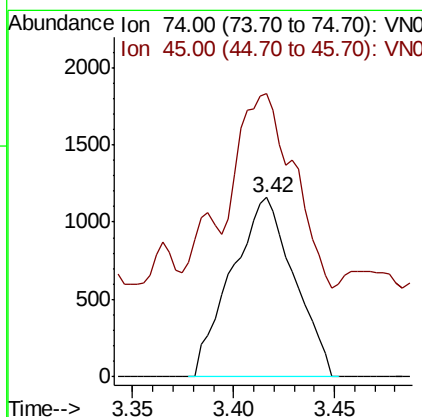
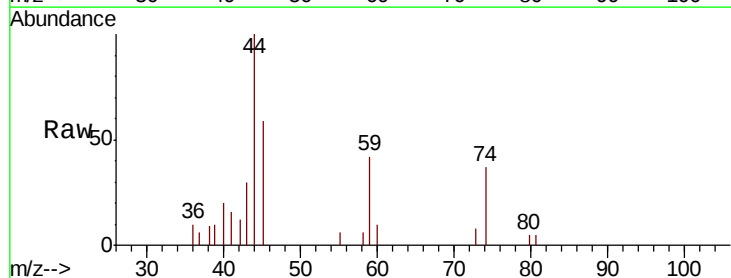
MMDadoda
 4/1/2019 3:59:14 PM

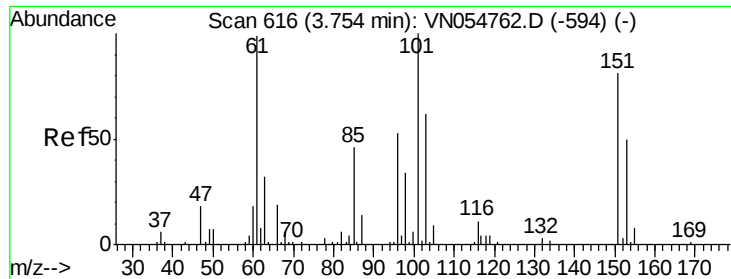


#8

Diethyl Ether
 Concen: 1.274 ug/l
 RT: 3.42 min Scan# 511
 Delta R.T. 0.00 min
 Lab File: VN054772.D
 Acq: 29 Mar 2019 16:13

Tgt Ion	Ratio	Lower	Upper
74	100		
45	102.2	43.1	129.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.097 ug/l

RT: 3.75 min Scan# 615

Delta R.T. -0.00 min

Lab File: VN054772.D

Acq: 29 Mar 2019 16:13

Instrument :

MSVOA_N

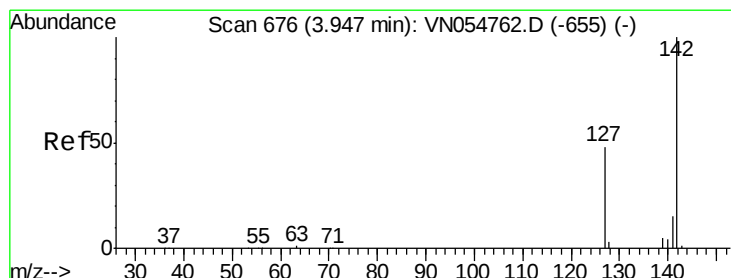
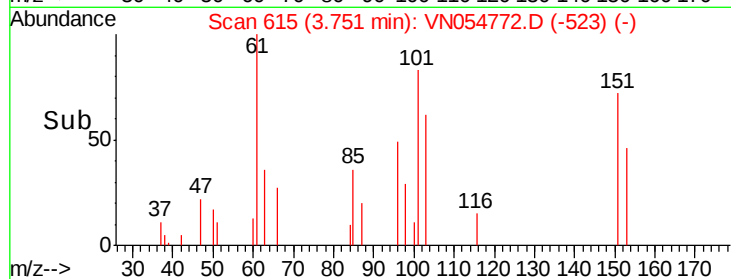
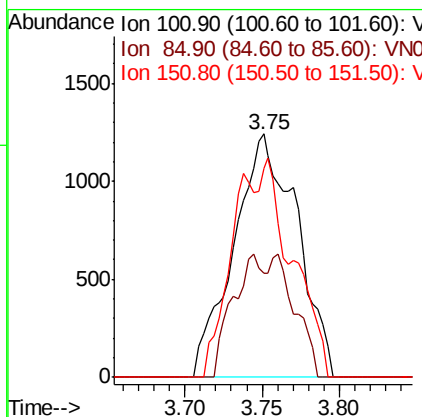
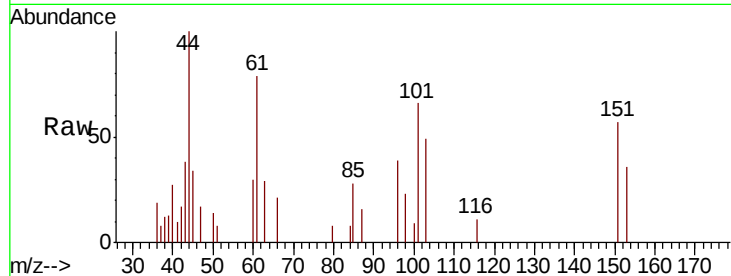
ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

Tot Ion:	101	Resp:	3519
Ion Ratio	Lower	Upper	
101	100		
85	27.3	32.4	48.6#
151	34.3	68.2	102.2#

Manual Integrations
APPROVED

MMDadoda
4/1/2019 3:59:14 PM



#10

Methyl Iodide

Concen: 0.793 ug/l

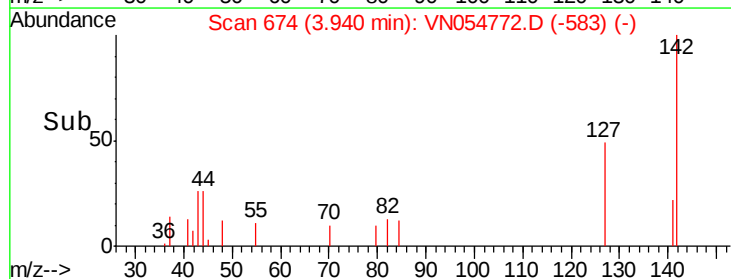
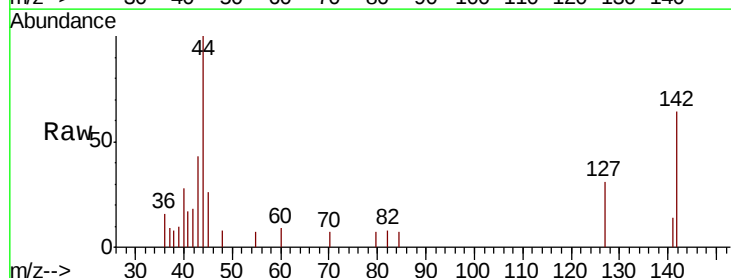
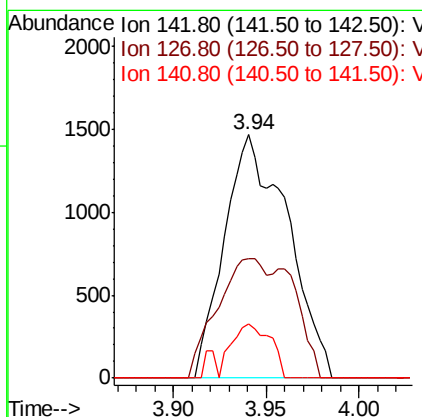
RT: 3.94 min Scan# 674

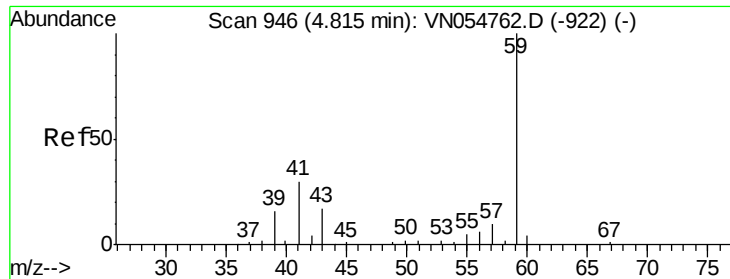
Delta R.T. -0.01 min

Lab File: VN054772.D

Acq: 29 Mar 2019 16:13

Tgt Ion:	142	Resp:	3483
Ion Ratio	Lower	Upper	
142	100		
127	37.5	30.3	45.5
141	13.5	11.2	16.8





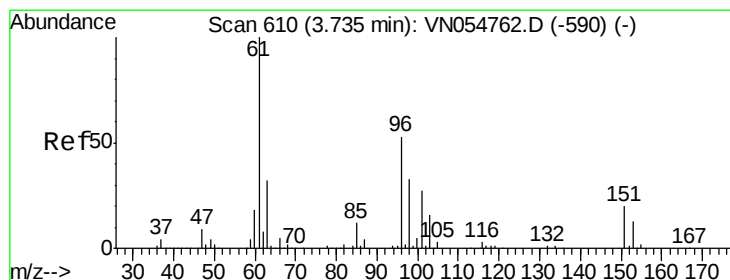
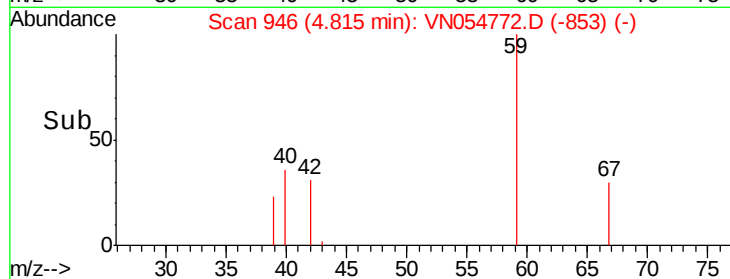
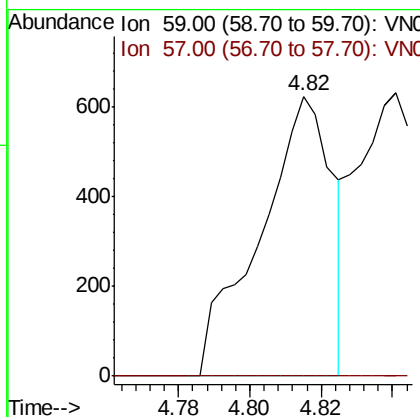
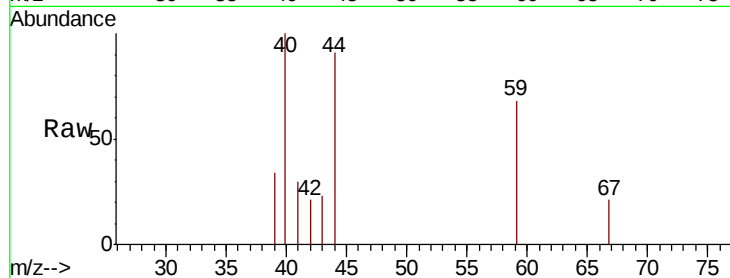
#11
Tert butyl alcohol
Concen: 3.165 ug/l
RT: 4.82 min Scan# 946
Delta R.T. -0.00 min
Lab File: VN054772.D
Acq: 29 Mar 2019 16:13

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT1-2019

Tot Ion: 59 Resp: 877
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.6#

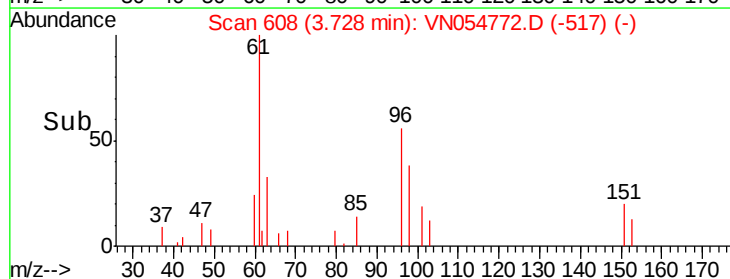
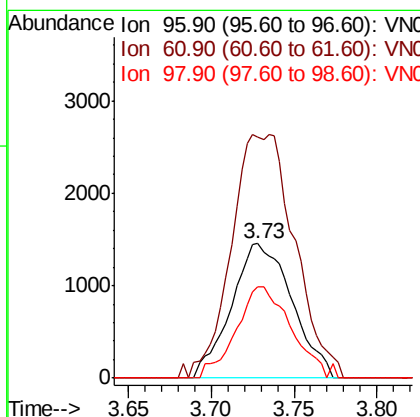
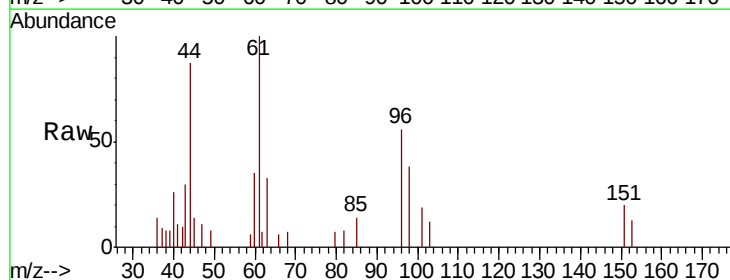
Manual Integrations
APPROVED

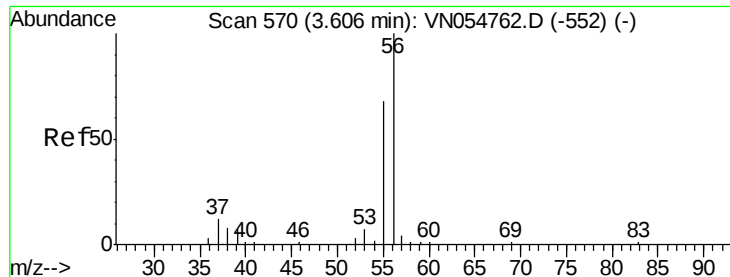
MMDadoda
4/1/2019 3:59:14 PM



#12
1,1-Dichloroethene
Concen: 1.195 ug/l
RT: 3.73 min Scan# 608
Delta R.T. -0.01 min
Lab File: VN054772.D
Acq: 29 Mar 2019 16:13

Tgt Ion: 96 Resp: 3705
Ion Ratio Lower Upper
96 100
61 179.1 116.5 174.7#
98 68.0 51.0 76.4





#13

Acrolein

Concen: 0.311 ug/l

RT: 3.62 min Scan# 573

Delta R.T. 0.01 min

Lab File: VN054772.D

Acq: 29 Mar 2019 16:13

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

Tot Ion: 56 Resp: 77

Ion Ratio Lower Upper

56 100

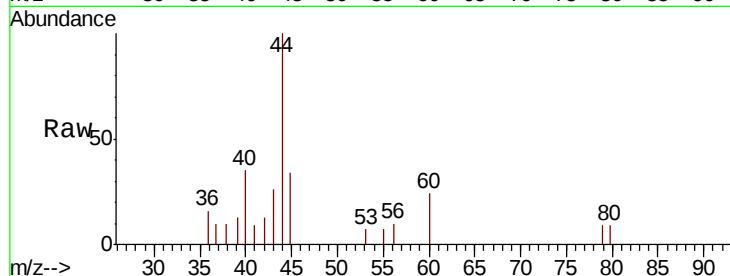
55 0.0 56.7 85.1#

Manual Integrations

APPROVED

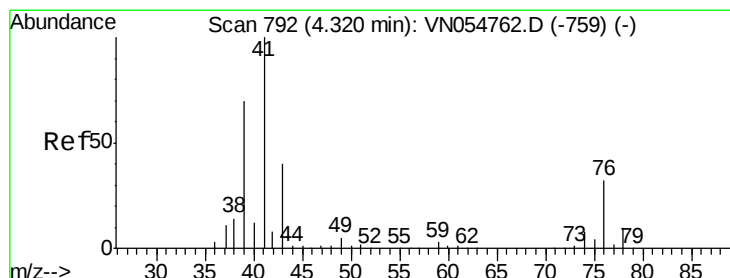
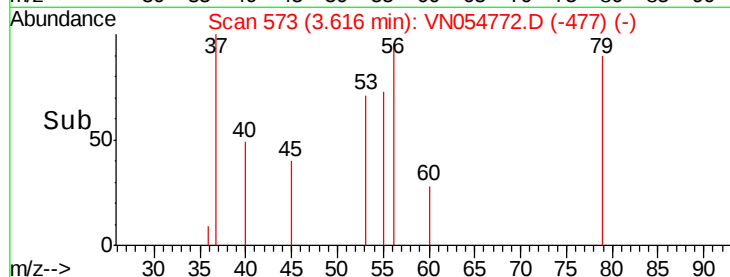
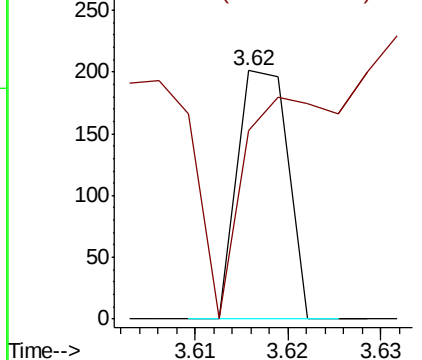
MMDadoda

4/1/2019 3:59:14 PM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 1.161 ug/l

RT: 4.32 min Scan# 791

Delta R.T. -0.00 min

Lab File: VN054772.D

Acq: 29 Mar 2019 16:13

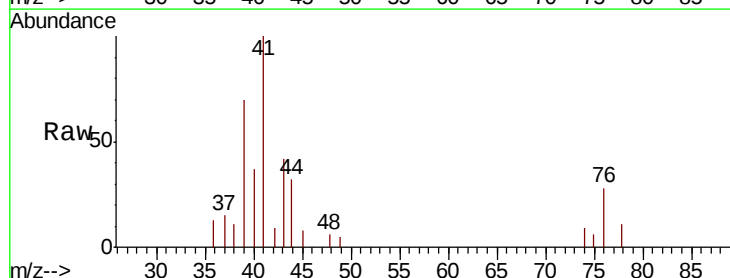
Tgt Ion: 41 Resp: 8867

Ion Ratio Lower Upper

41 100

39 66.9 58.2 87.4

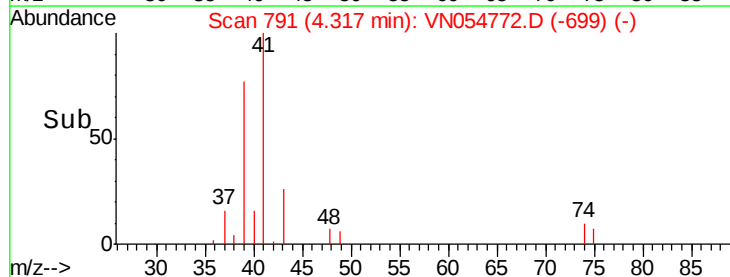
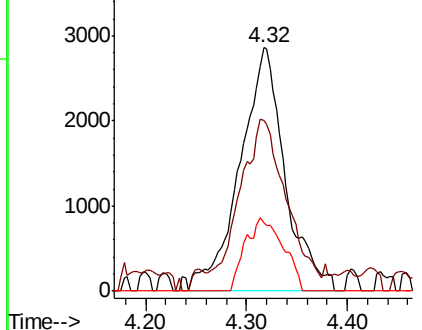
76 25.1 31.7 47.5#

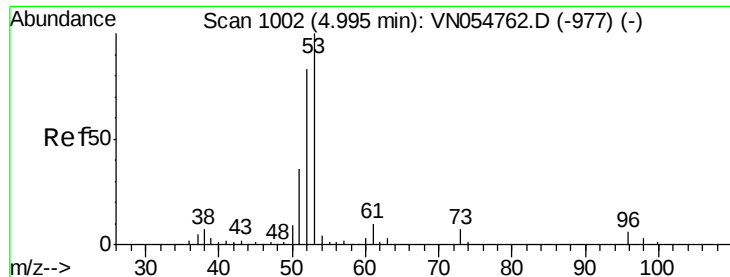


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 5.532 ug/l

RT: 4.99 min Scan# 1001

Delta R.T. -0.00 min

Lab File: VN054772.D

Acq: 29 Mar 2019 16:13

Instrument :

MSVOA_N

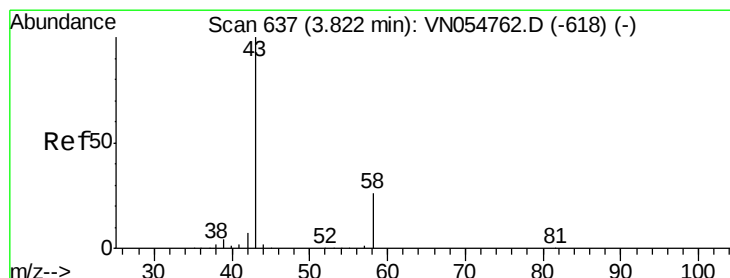
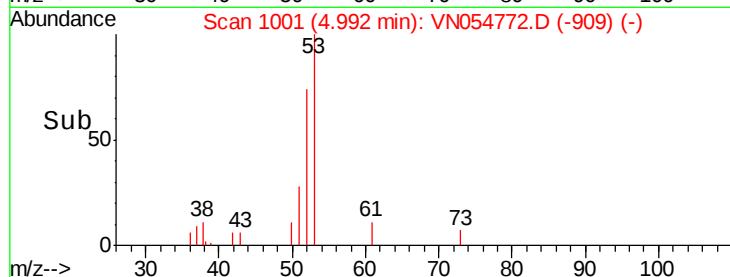
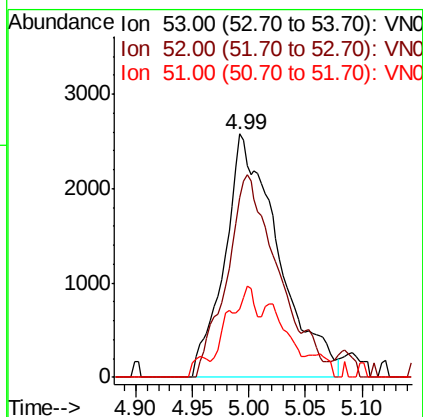
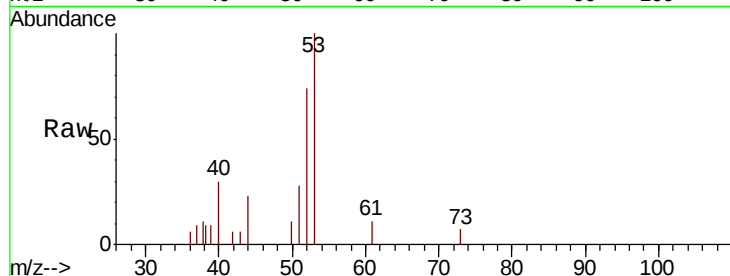
ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

Tot Ion:	53	Resp:	8521
Ion	Ratio	Lower	Upper
53	100		
52	74.7	66.4	99.6
51	3.6	29.6	44.4#

Manual Integrations
APPROVED

MMDadoda
4/1/2019 3:59:14 PM



#16

Acetone

Concen: 8.181 ug/l

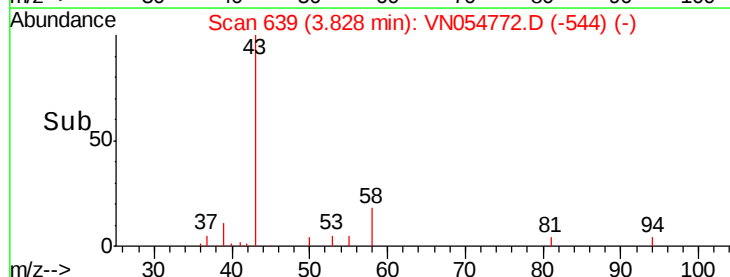
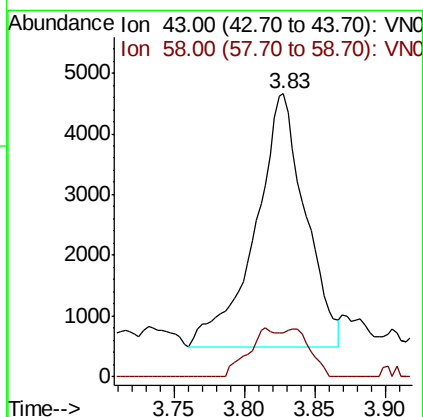
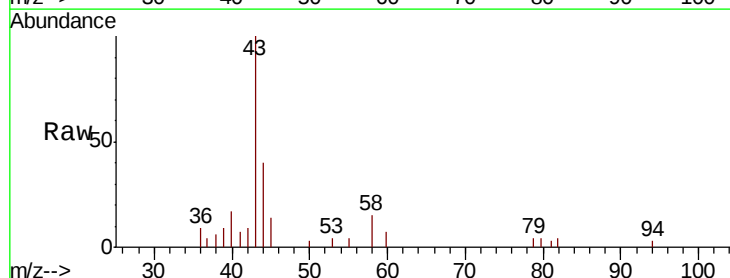
RT: 3.83 min Scan# 639

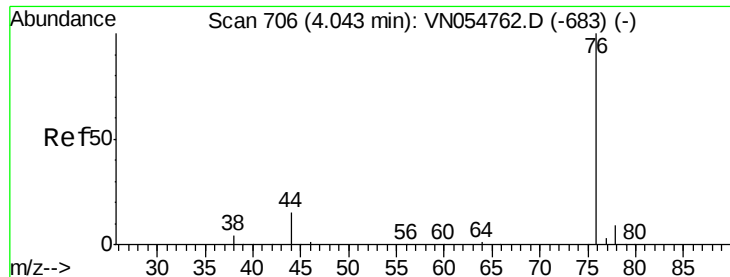
Delta R.T. 0.01 min

Lab File: VN054772.D

Acq: 29 Mar 2019 16:13

Tgt Ion:	43	Resp:	10376
Ion	Ratio	Lower	Upper
43	100		
58	17.1	29.9	44.9#





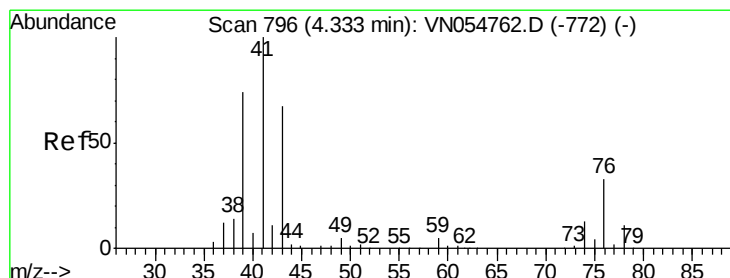
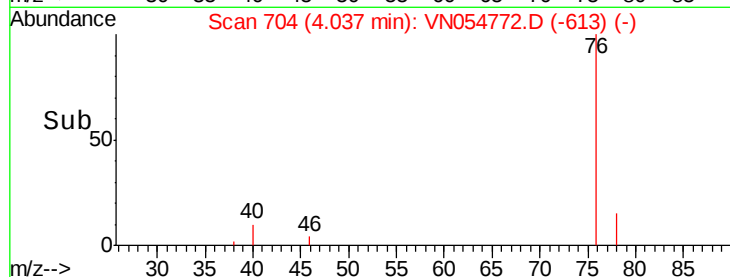
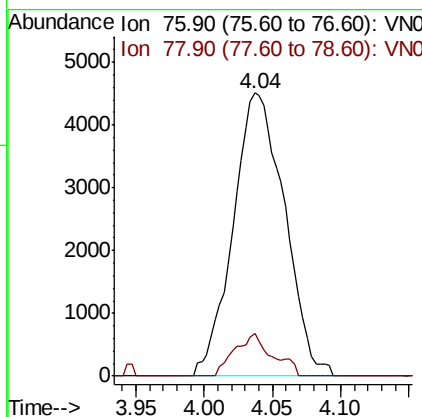
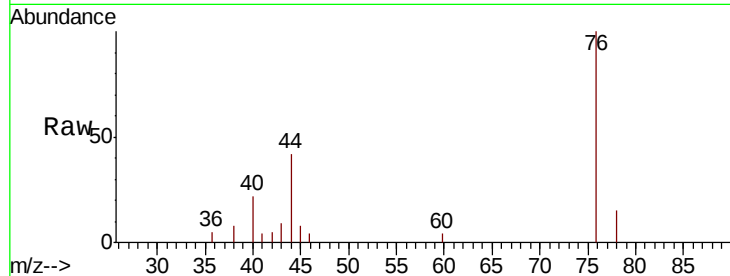
#17
Carbon Disulfide
Concen: 1.174 ug/l
RT: 4.04 min Scan# 704
Delta R.T. -0.01 min
Lab File: VN054772.D
Acq: 29 Mar 2019 16:13

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT1-2019

Tot Ion: 76 Resp: 11812
Ion Ratio Lower Upper
76 100
78 15.0 7.5 11.3#

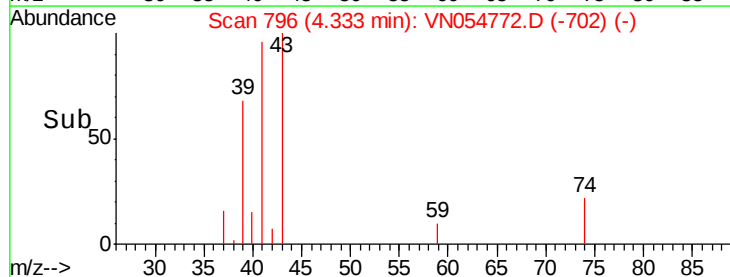
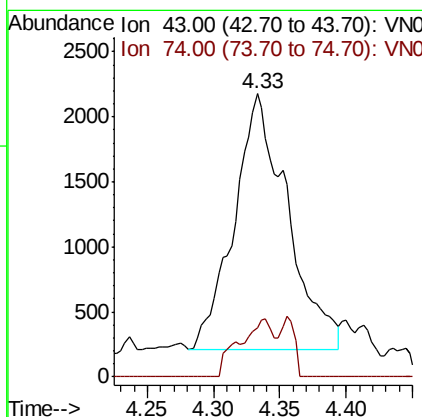
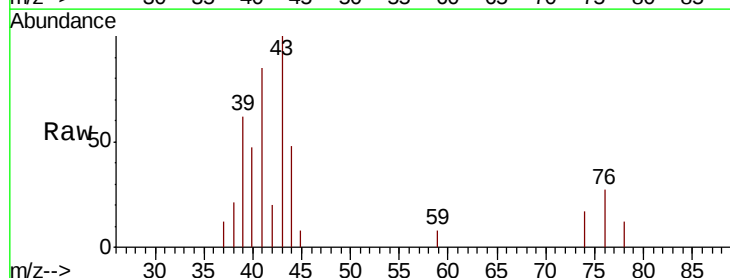
Manual Integrations
APPROVED

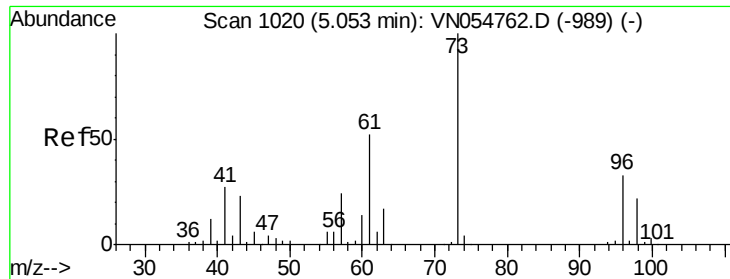
MMDadoda
4/1/2019 3:59:14 PM



#18
Methyl Acetate
Concen: 0.757 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.00 min
Lab File: VN054772.D
Acq: 29 Mar 2019 16:13

Tgt Ion: 43 Resp: 5490
Ion Ratio Lower Upper
43 100
74 14.1 20.8 31.2#





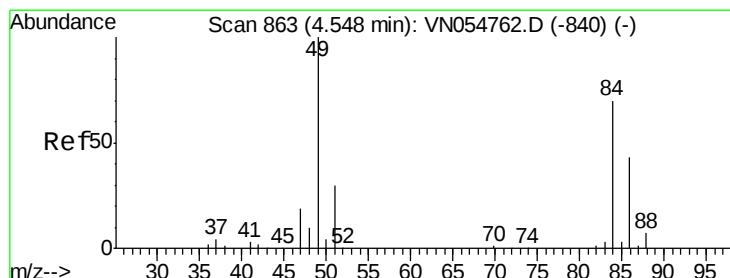
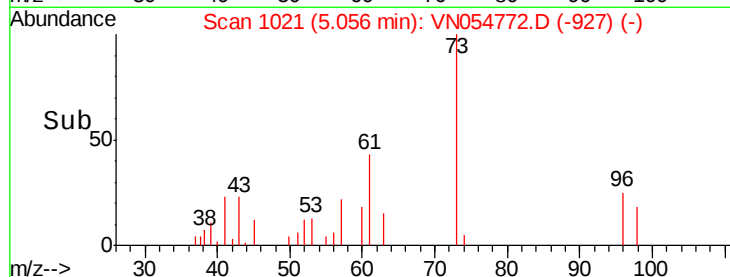
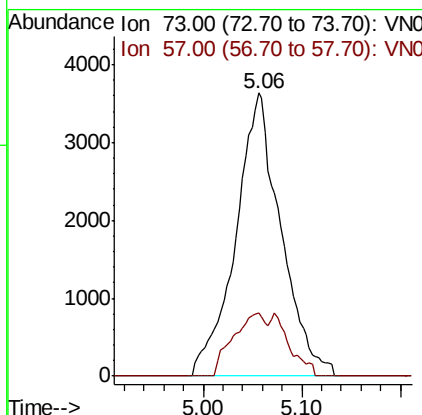
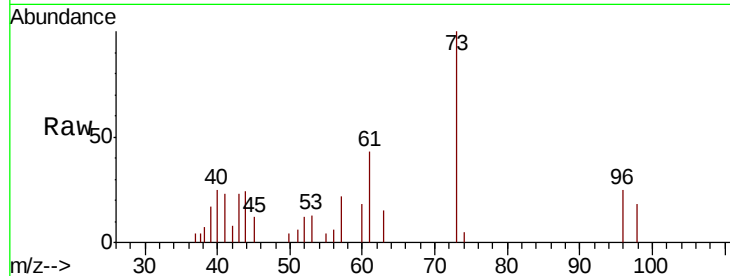
#19
Methvl tert-butvl Ether
Concen: 1.064 ug/l
RT: 5.06 min Scan# 1021
Delta R.T. 0.00 min
Lab File: VN054772.D
Acq: 29 Mar 2019 16:13

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT1-2019

Tot Ion: 73 Resp: 11547
Ion Ratio Lower Upper
73 100
57 22.1 16.8 25.2

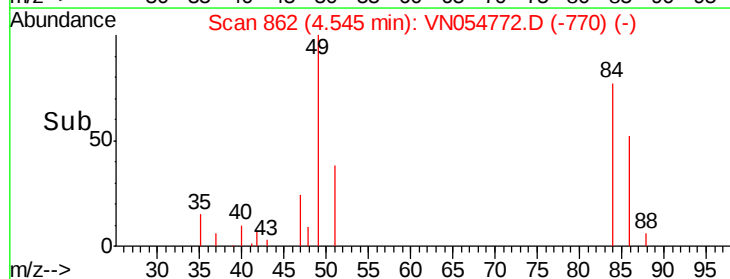
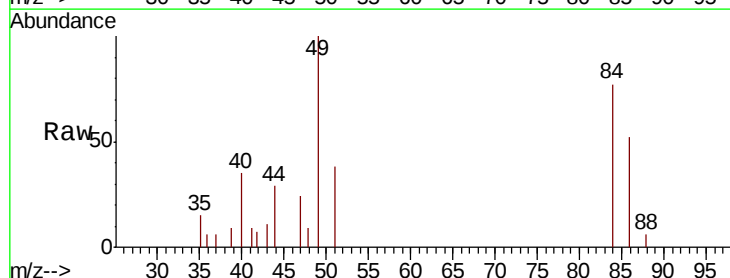
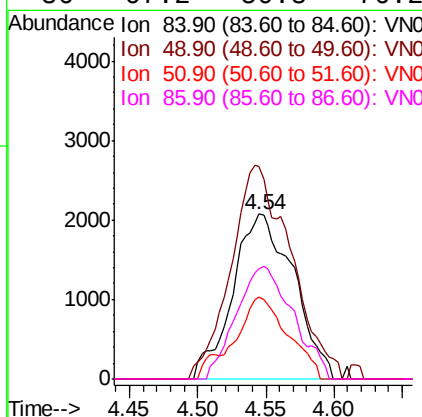
Manual Integrations
APPROVED

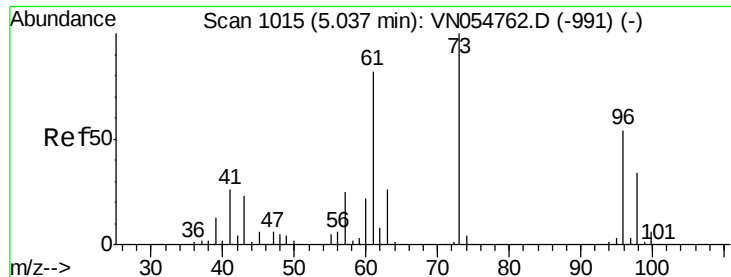
MMDadoda
4/1/2019 3:59:14 PM



#20
Methylene Chloride
Concen: 1.436 ug/l
RT: 4.54 min Scan# 862
Delta R.T. -0.00 min
Lab File: VN054772.D
Acq: 29 Mar 2019 16:13

Tgt Ion: 84 Resp: 6424
Ion Ratio Lower Upper
84 100
49 129.3 89.7 134.5
51 49.8 28.2 42.4#
86 67.2 50.8 76.2





#21

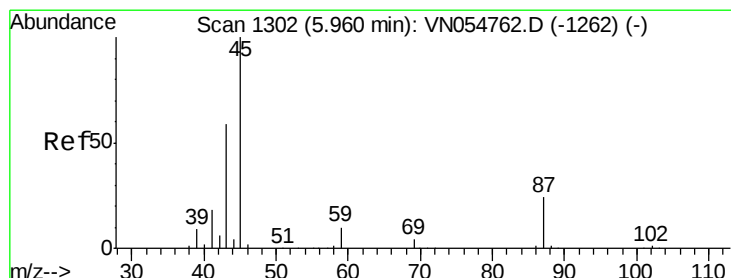
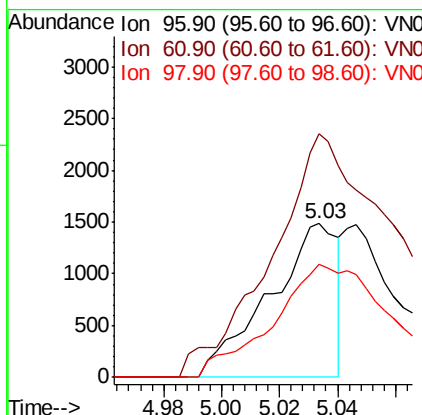
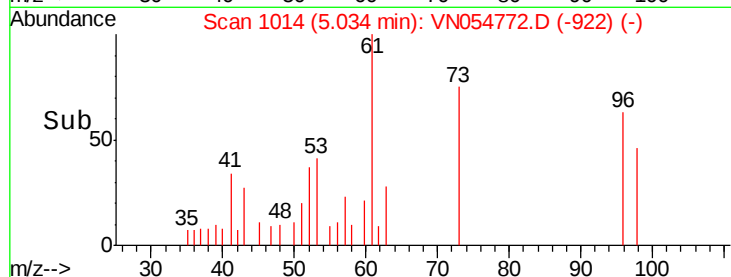
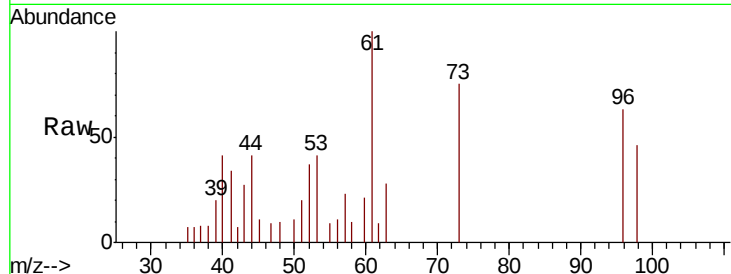
trans-1,2-Dichloroethene
Concen: 0.594 ug/l
RT: 5.03 min Scan# 1014
Delta R.T. -0.00 min
Lab File: VN054772.D
Acq: 29 Mar 2019 16:13

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT1-2019

Tot Ion	Ratio	Lower	Upper
96	100		
61	143.0	102.8	154.2
98	73.2	50.0	75.0

Manual Integrations
APPROVED

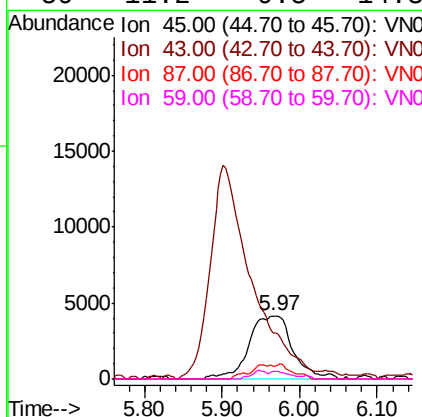
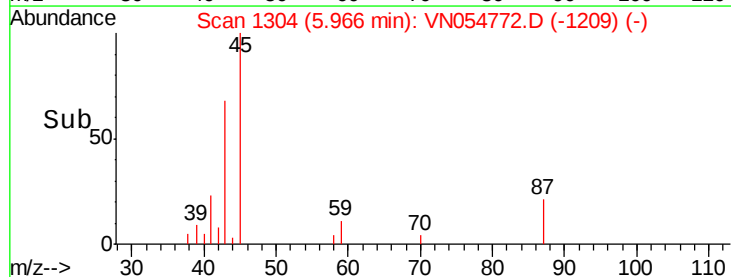
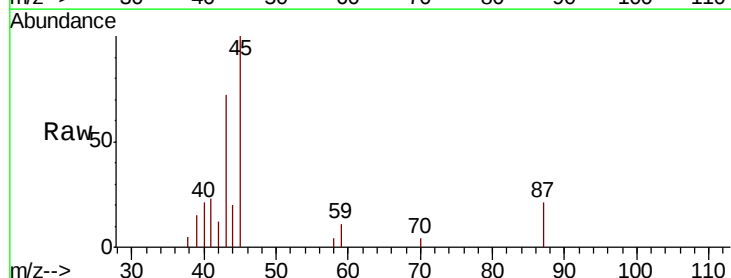
MMDadoda
4/1/2019 3:59:14 PM

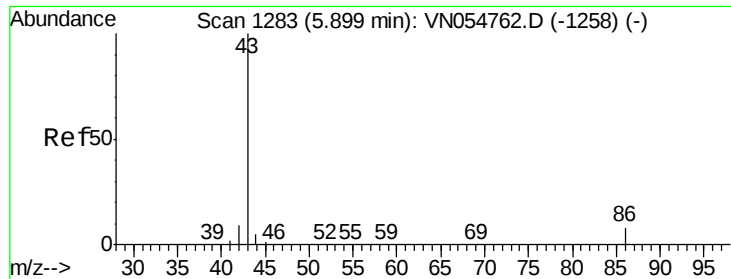


#22

Diisopropyl ether
Concen: 1.082 ug/l m
RT: 5.97 min Scan# 1304
Delta R.T. 0.01 min
Lab File: VN054772.D
Acq: 29 Mar 2019 16:13

Tgt Ion	Ratio	Lower	Upper
45	100		
43	72.3	48.2	72.2#
87	20.9	24.9	37.3#
59	11.2	9.5	14.3





#23

Vinyl Acetate

Concen: 4.985 ug/l

RT: 5.90 min Scan# 1284

Delta R.T. 0.00 min

Lab File: VN054772.D

Acq: 29 Mar 2019 16:13

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

Tot Ion: 43 Resp: 52418

Ion Ratio Lower Upper

43 100

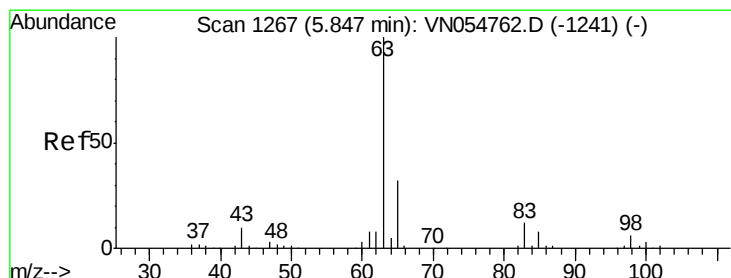
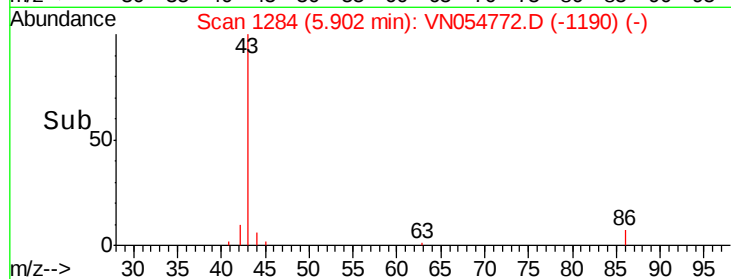
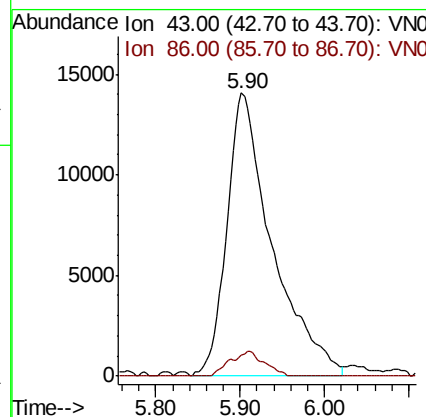
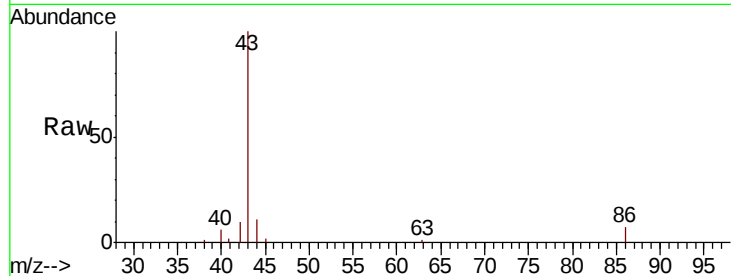
86 7.2 9.1 13.7#

Manual Integrations

APPROVED

MMDadoda

4/1/2019 3:59:14 PM



#24

1,1-Dichloroethane

Concen: 1.078 ug/l

RT: 5.85 min Scan# 1267

Delta R.T. -0.00 min

Lab File: VN054772.D

Acq: 29 Mar 2019 16:13

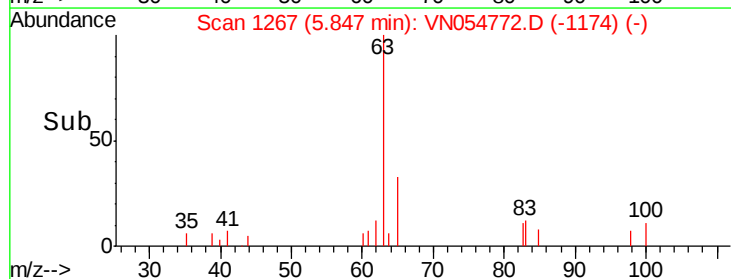
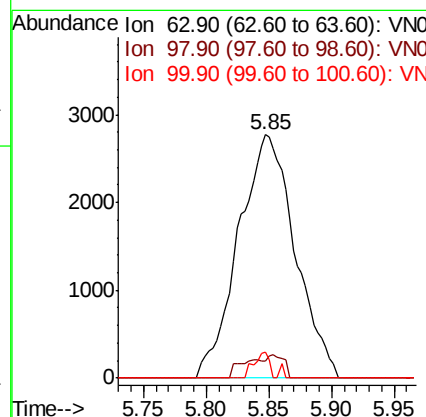
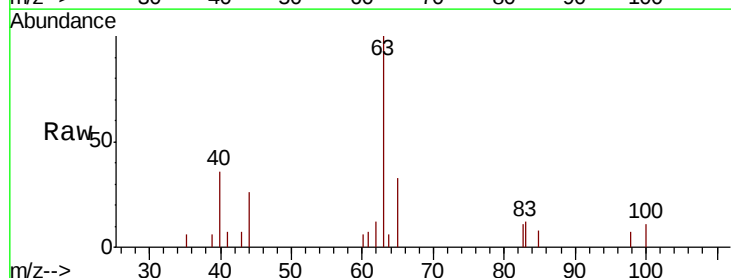
Tgt Ion: 63 Resp: 8686

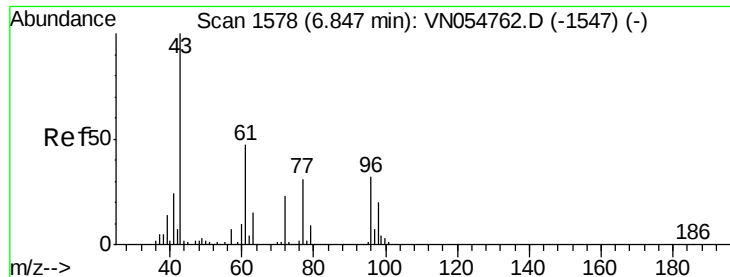
Ion Ratio Lower Upper

63 100

98 6.9 3.5 10.5

100 10.7 2.0 6.0#





#25

2-Butanone

Concen: 5.847 ug/l

RT: 6.85 min Scan# 1579

Delta R.T. 0.00 min

Lab File: VN054772.D

Acq: 29 Mar 2019 16:13

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

Tot Ion: 43 Resp: 10962

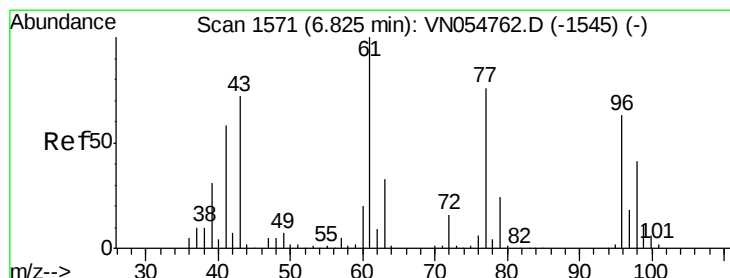
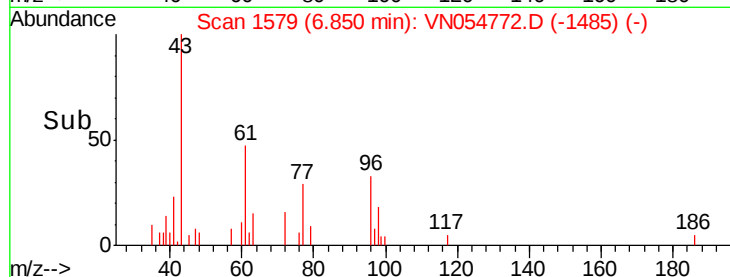
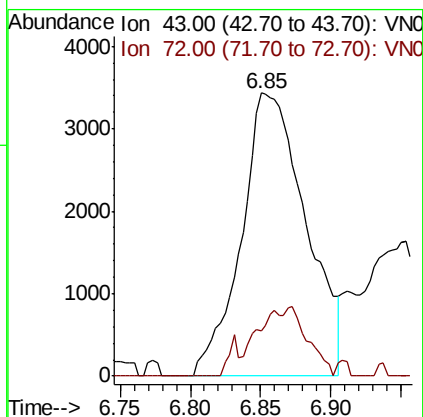
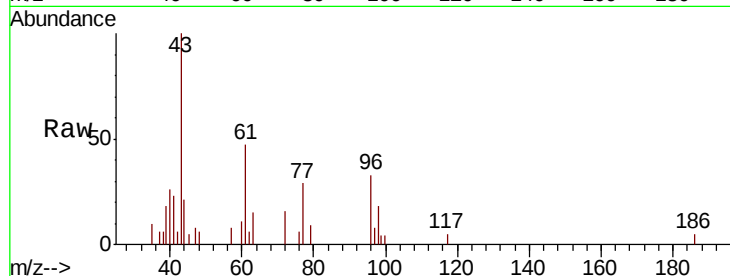
Ion Ratio Lower Upper

43 100

72 16.0 23.0 34.6#

Manual Integrations
APPROVED

MMDadoda
4/1/2019 3:59:14 PM



#26

2,2-Dichloropropane

Concen: 1.013 ug/l

RT: 6.82 min Scan# 1570

Delta R.T. -0.00 min

Lab File: VN054772.D

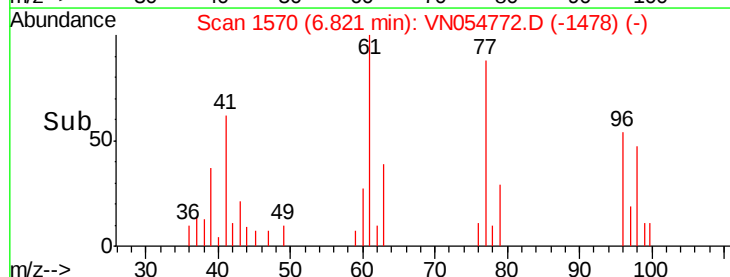
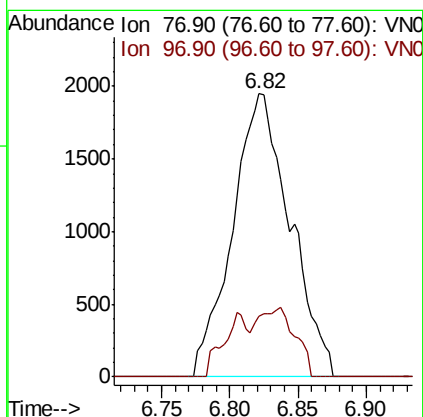
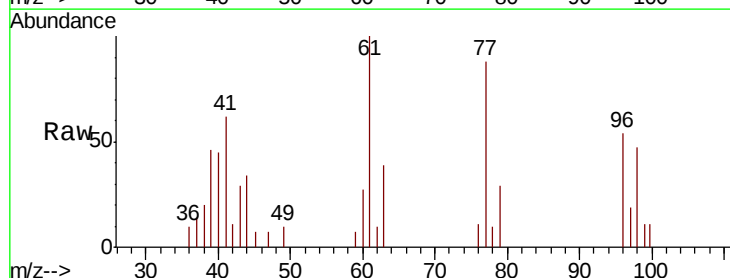
Acq: 29 Mar 2019 16:13

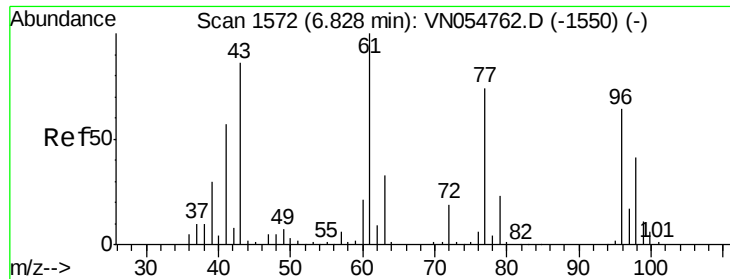
Tgt Ion: 77 Resp: 5721

Ion Ratio Lower Upper

77 100

97 16.0 11.9 35.9





#27

cis-1,2-Dichloroethene

Concen: 0.979 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.01 min

Lab File: VN054772.D

Acq: 29 Mar 2019 16:13

Instrument :

MSVOA_N

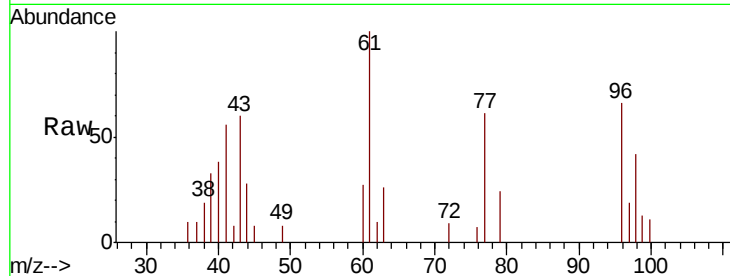
ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

Tot Ion	Ratio	Lower	Upper
96	100		
61	168.2	0.0	273.0
98	35.7	0.0	130.6

Manual Integrations
APPROVED

MMDadoda
4/1/2019 3:59:14 PM

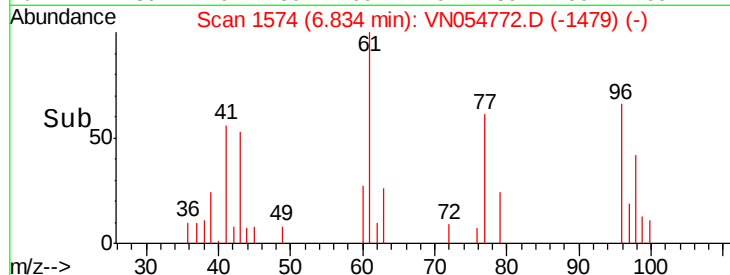


Abundance Ion 95.90 (95.60 to 96.60): VN054772.D (-1479) (-)

Ion 60.90 (60.60 to 61.60): VN054772.D (-1479) (-)

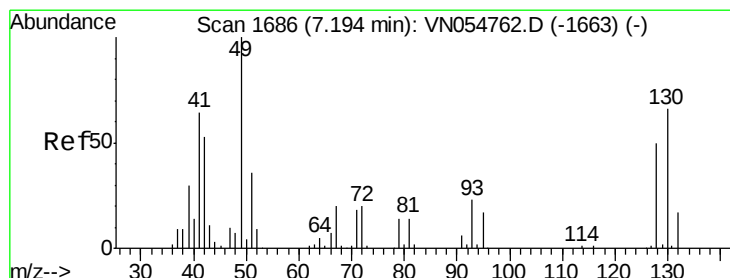
Ion 97.90 (97.60 to 98.60): VN054772.D (-1479) (-)

Time-->



6.83

Time-->



#28

Bromochloromethane

Concen: 1.130 ug/l

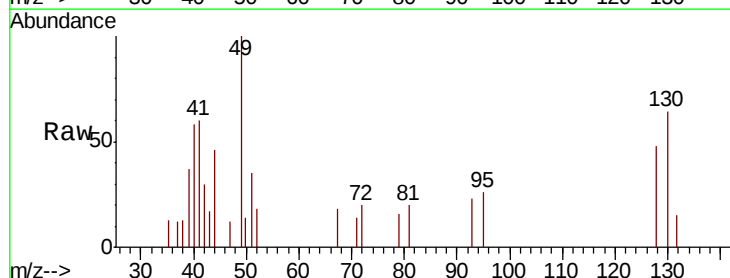
RT: 7.20 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN054772.D

Acq: 29 Mar 2019 16:13

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.6
130	62.7	76.7	115.1#

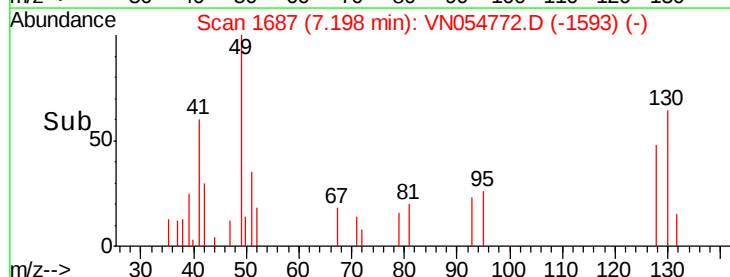


Abundance Ion 48.90 (48.60 to 49.60): VN054772.D (-1593) (-)

Ion 128.80 (128.50 to 129.50): VN054772.D (-1593) (-)

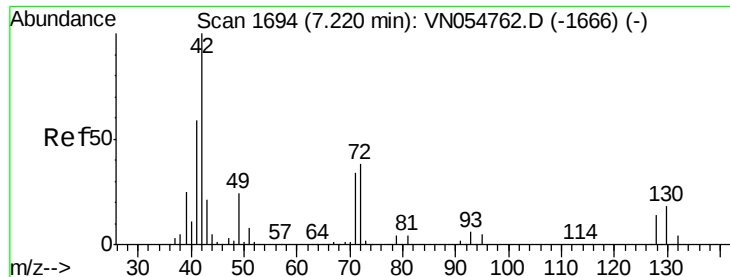
Ion 129.80 (129.50 to 130.50): VN054772.D (-1593) (-)

Time-->



7.20

Time-->



#29

Tetrahydrofuran

Concen: 6.336 ug/l m

RT: 7.24 min Scan# 1699

Delta R.T. 0.02 min

Lab File: VN054772.D

Acq: 29 Mar 2019 16:13

Instrument :

MSVOA_N

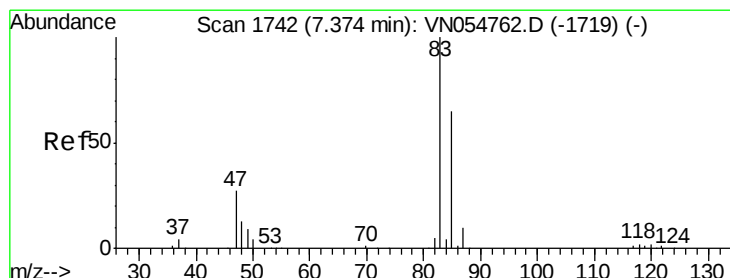
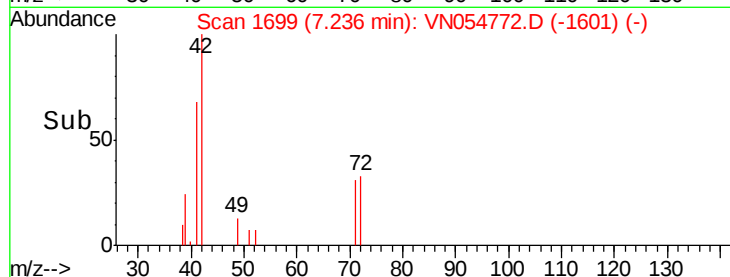
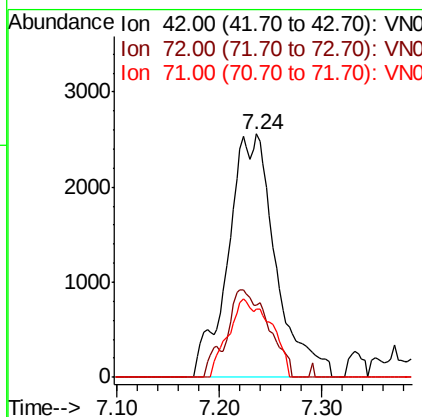
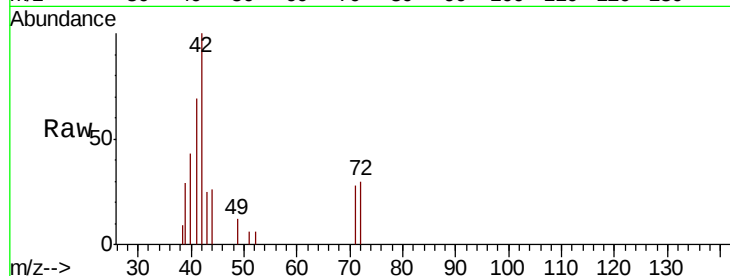
ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

Tot Ion:	42	Resp:	8250
Ion	Ratio	Lower	Upper
42	100		
72	29.1	37.8	56.6#
71	28.6	36.2	54.2#

Manual Integrations
APPROVED

MMDadoda
4/1/2019 3:59:14 PM



#30

Chloroform

Concen: 1.039 ug/l

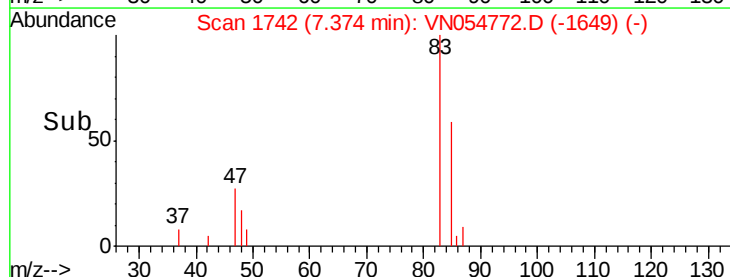
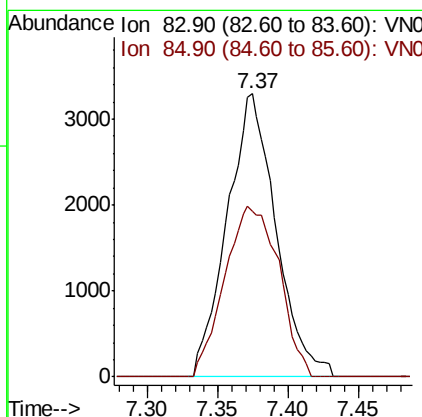
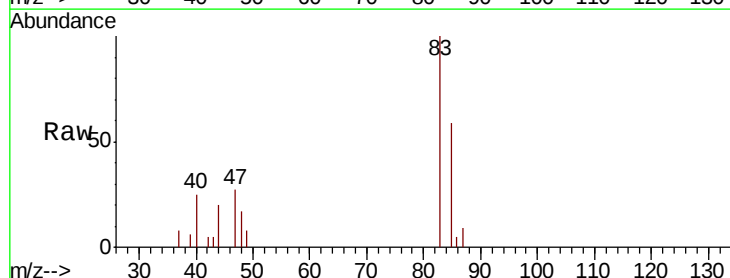
RT: 7.37 min Scan# 1742

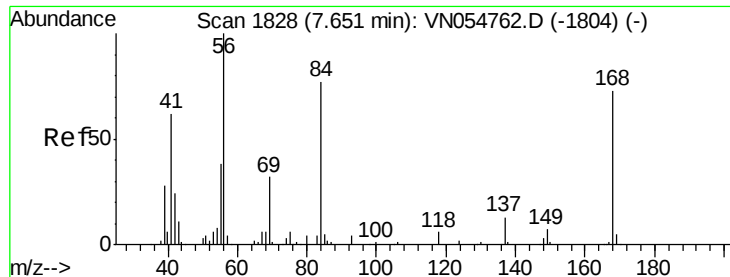
Delta R.T. -0.00 min

Lab File: VN054772.D

Acq: 29 Mar 2019 16:13

Tgt Ion:	83	Resp:	7983
Ion	Ratio	Lower	Upper
83	100		
85	58.5	52.2	78.4





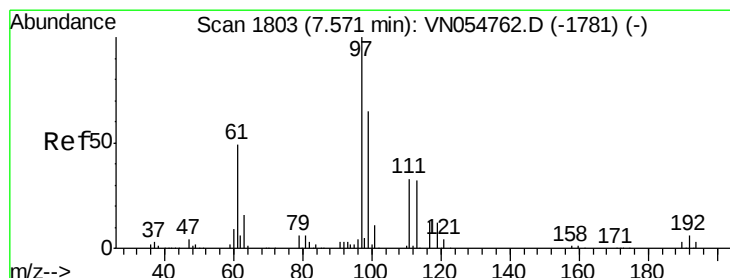
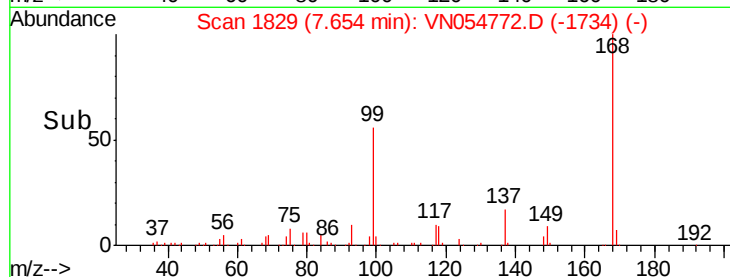
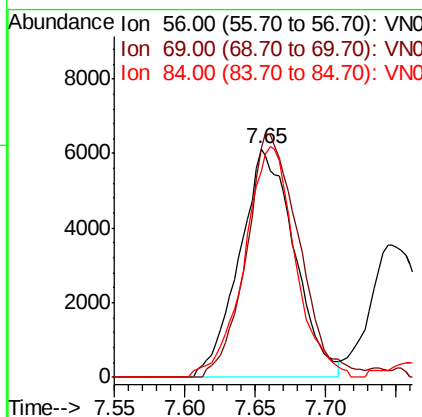
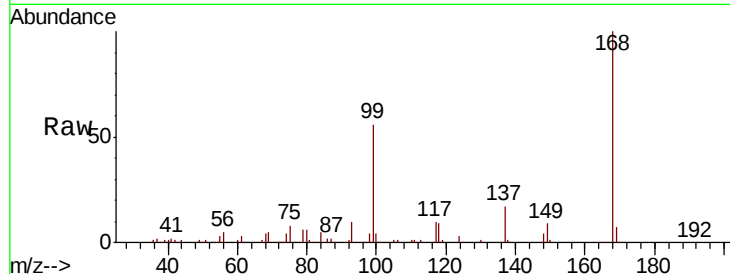
#31
Cyclohexane
Concen: 0.211 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. 0.00 min
Lab File: VN054772.D
Acq: 29 Mar 2019 16:13

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT1-2019

Tot Ion	Ratio	Lower	Upper
56	100		
69	100.5	27.8	41.6#
84	90.2	74.6	111.8

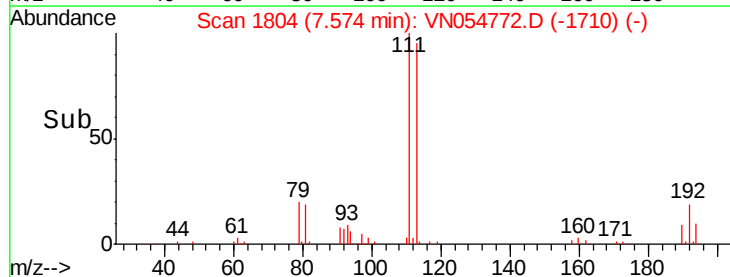
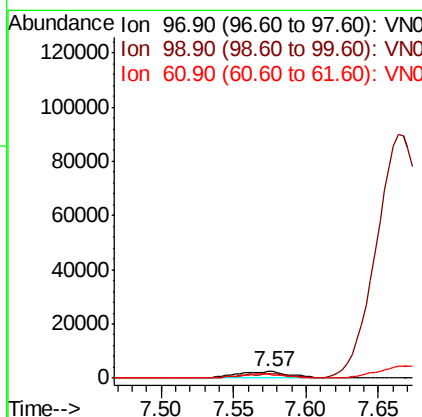
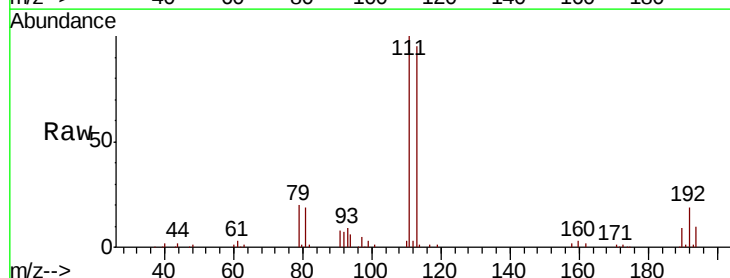
Manual Integrations
APPROVED

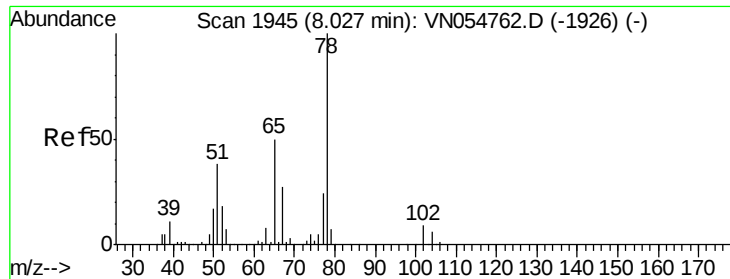
MMDadoda
4/1/2019 3:59:14 PM



#32
1,1,1-Trichloroethane
Concen: 0.982 ug/l
RT: 7.57 min Scan# 1804
Delta R.T. 0.00 min
Lab File: VN054772.D
Acq: 29 Mar 2019 16:13

Tgt Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.5	77.3#
61	58.5	33.6	50.4#





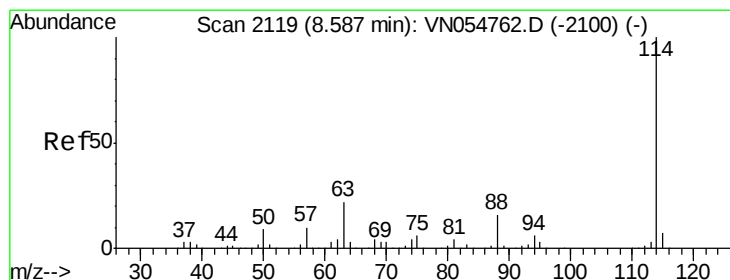
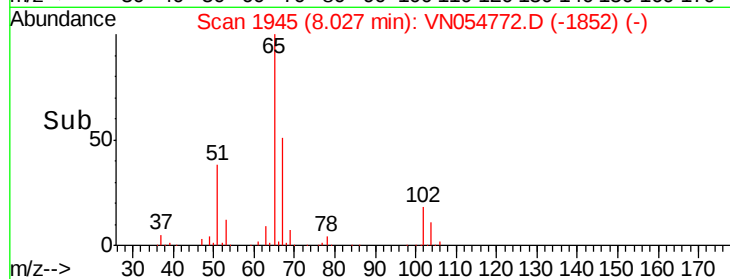
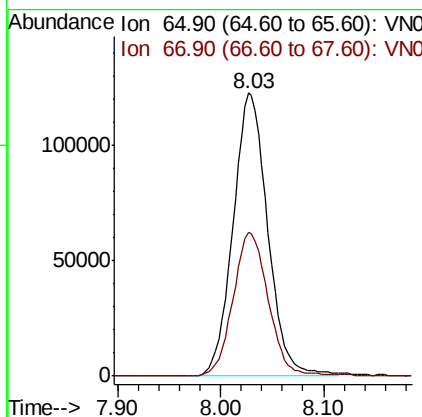
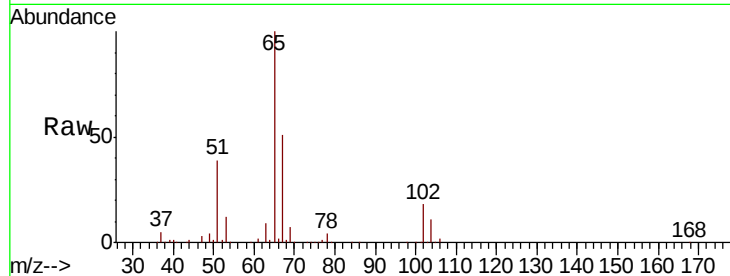
#33
 1,2-Dichloroethane-d4
 Concen: 53.946 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN054772.D
 Acq: 29 Mar 2019 16:13

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT1-2019

Tot Ion	Ratio	Resp	Lower	Upper
65	100	286917		
67	52.1	0.0	104.6	

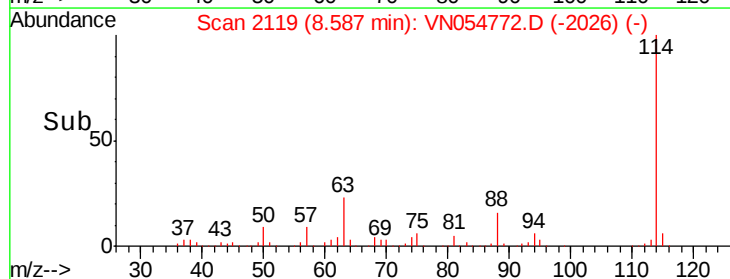
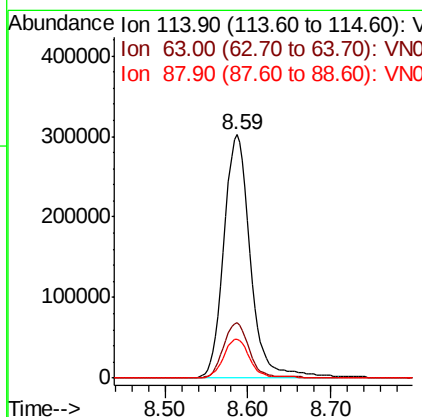
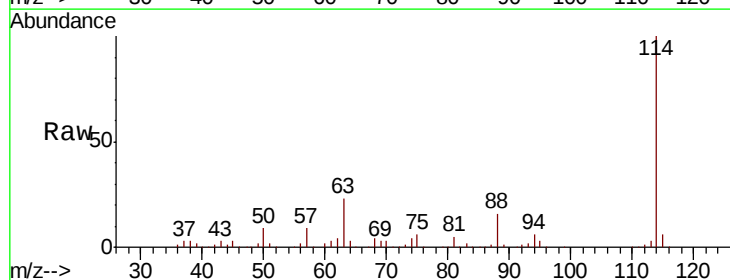
Manual Integrations
 APPROVED

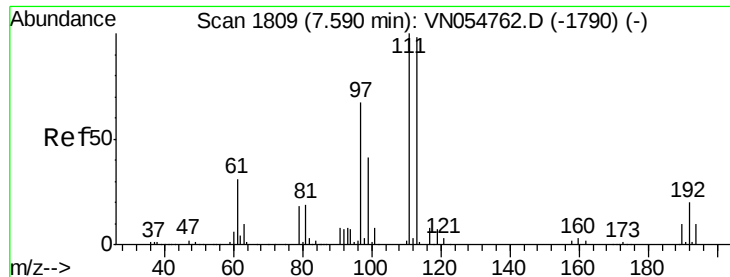
MMDadoda
 4/1/2019 3:59:14 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054772.D
 Acq: 29 Mar 2019 16:13

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	675761		
63	22.7	0.0	35.2	
88	15.9	0.0	30.2	





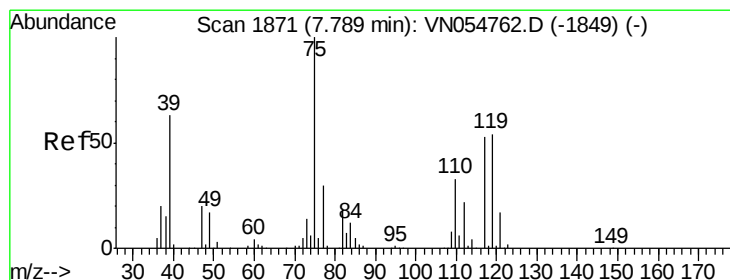
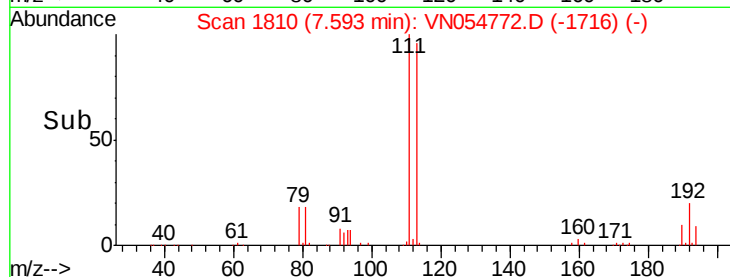
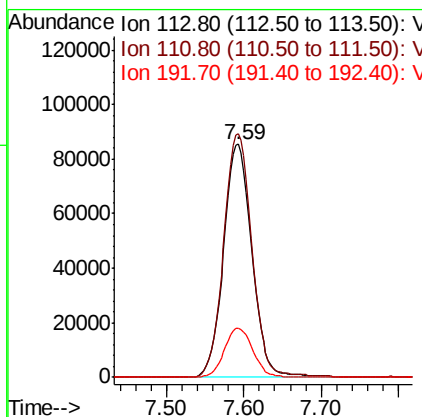
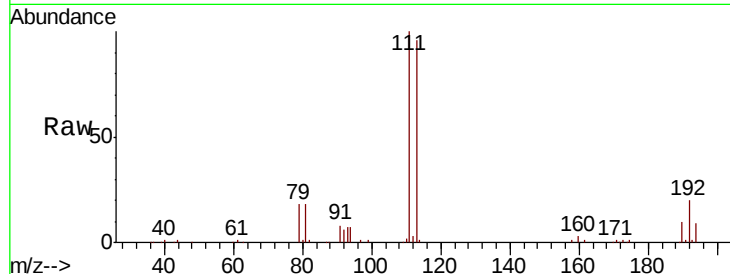
#35
Dibromofluoromethane
Concen: 48.130 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. 0.00 min
Lab File: VN054772.D
Acq: 29 Mar 2019 16:13

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT1-2019

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	104.2	82.2	123.4	
192	21.3	19.2	28.8	

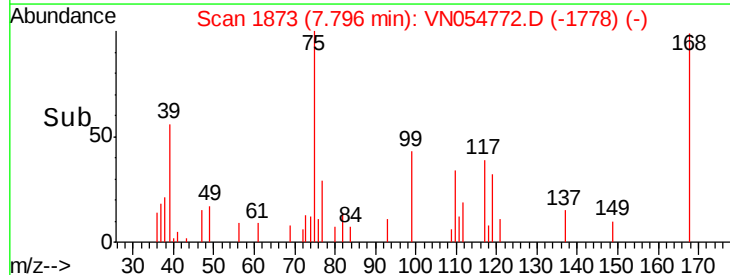
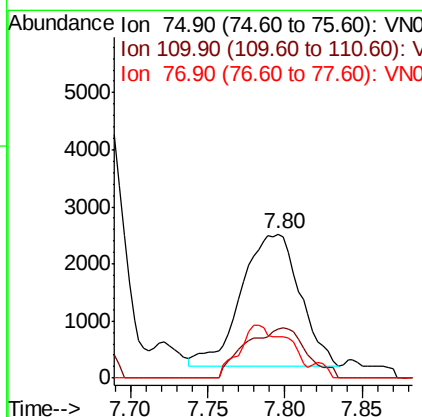
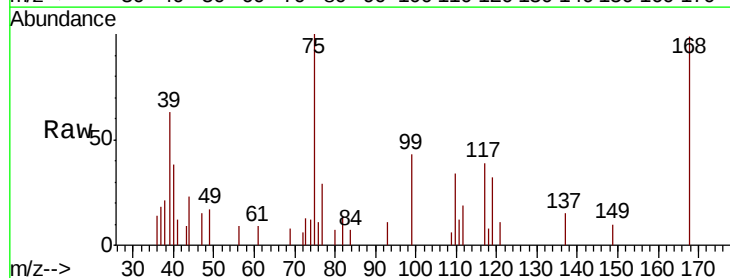
Manual Integrations
APPROVED

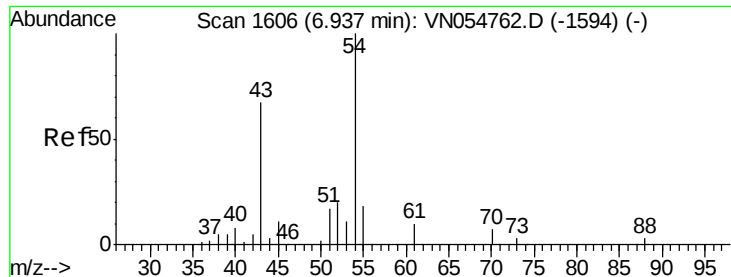
MMDadoda
4/1/2019 3:59:14 PM



#36
1,1-Dichloropropene
Concen: 0.964 ug/l
RT: 7.80 min Scan# 1873
Delta R.T. 0.01 min
Lab File: VN054772.D
Acq: 29 Mar 2019 16:13

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	39.5	19.1	57.5	
77	33.5	25.0	37.4	





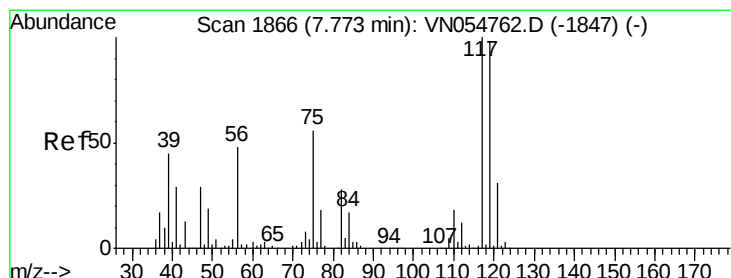
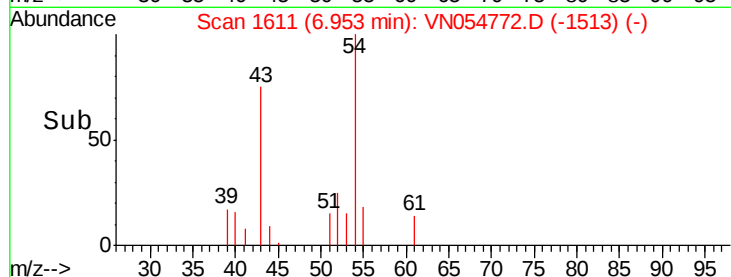
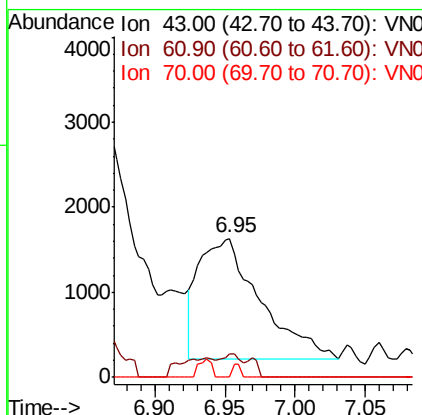
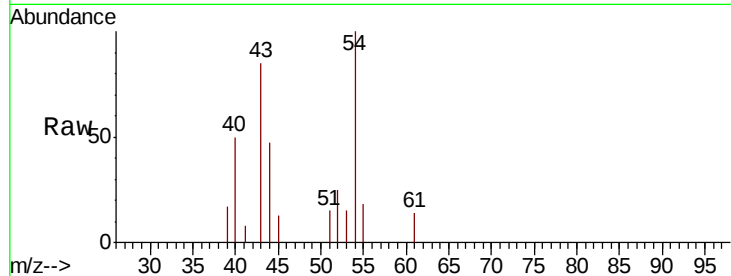
#37
Ethyl Acetate
Concen: 0.919 ug/l
RT: 6.95 min Scan# 1611
Delta R.T. 0.02 min
Lab File: VN054772.D
Acq: 29 Mar 2019 16:13

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT1-2019

Tot Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.8	17.6#
70	1.4	8.4	12.6#

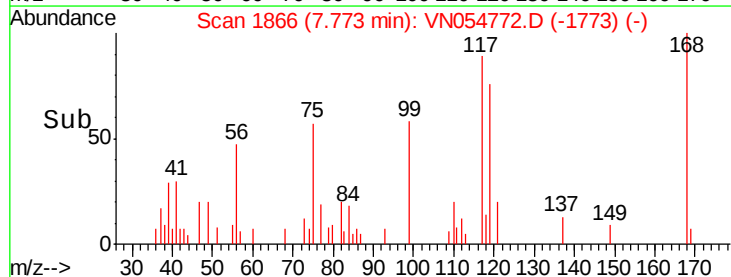
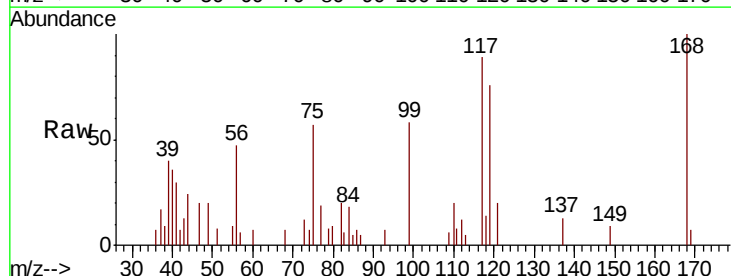
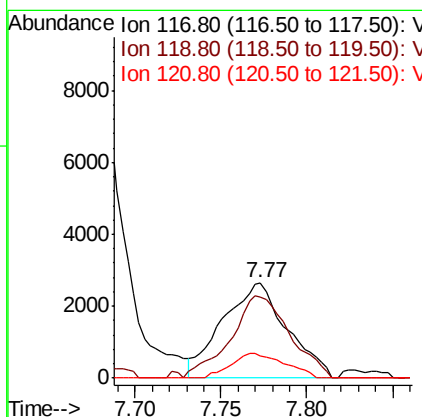
Manual Integrations
APPROVED

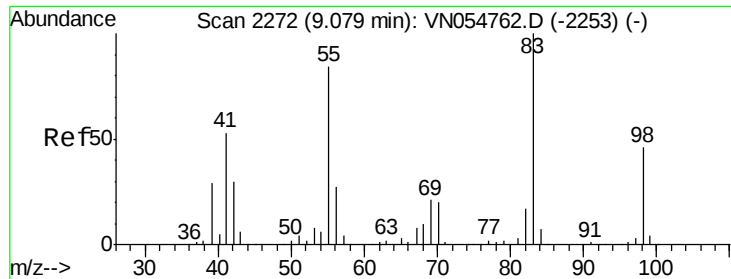
MMDadoda
4/1/2019 3:59:14 PM



#38
Carbon Tetrachloride
Concen: 1.126 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. -0.00 min
Lab File: VN054772.D
Acq: 29 Mar 2019 16:13

Tgt Ion	Ratio	Lower	Upper
117	100		
119	85.5	76.3	114.5
121	23.0	24.6	36.8#





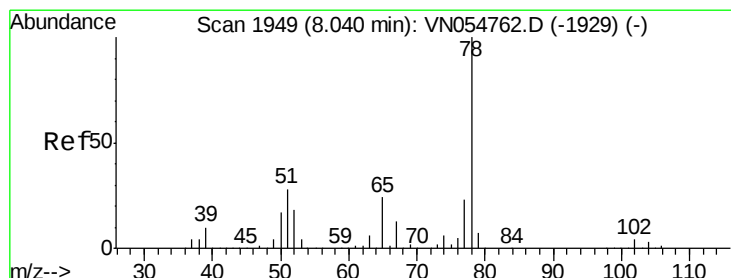
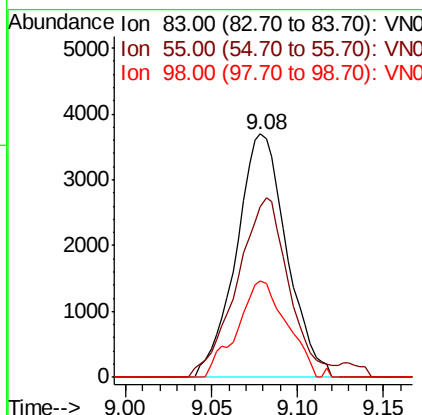
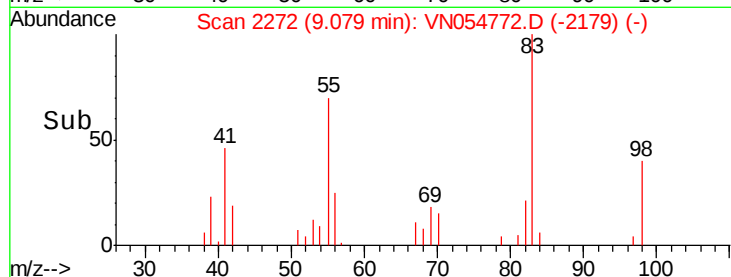
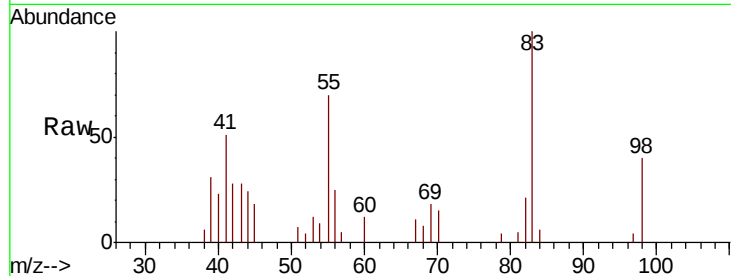
#39
Methvlcvclohexane
Concen: 1.085 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VN054772.D
Acq: 29 Mar 2019 16:13

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT1-2019

Tot Ion	83	Resp	7511
Ion Ratio	100	Lower	Upper
83	100		
55	69.9	56.6	84.8
98	39.8	38.4	57.6

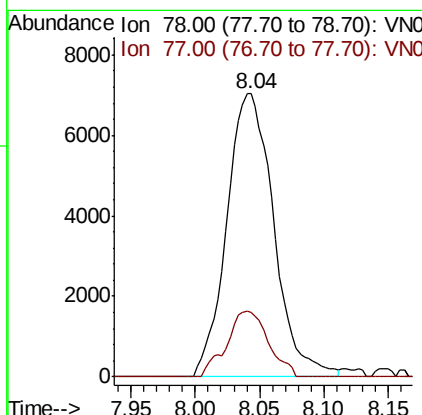
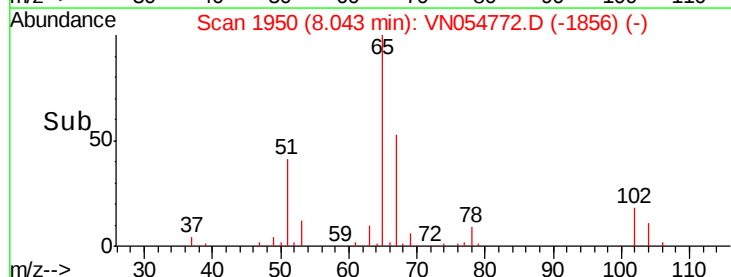
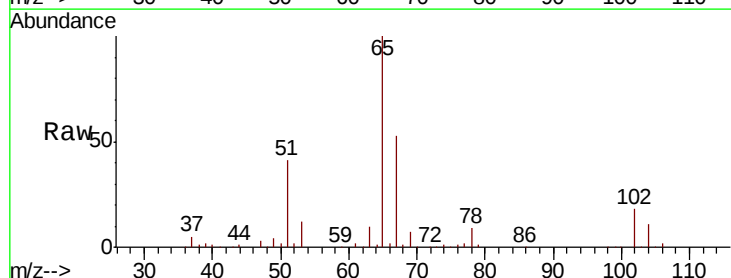
Manual Integrations
APPROVED

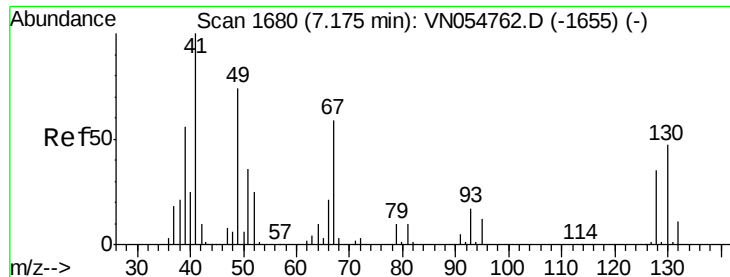
MMDadoda
4/1/2019 3:59:14 PM



#40
Benzene
Concen: 0.991 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN054772.D
Acq: 29 Mar 2019 16:13

Tgt Ion	78	Resp	17847
Ion Ratio	100	Lower	Upper
78	100		
77	22.9	19.1	28.7





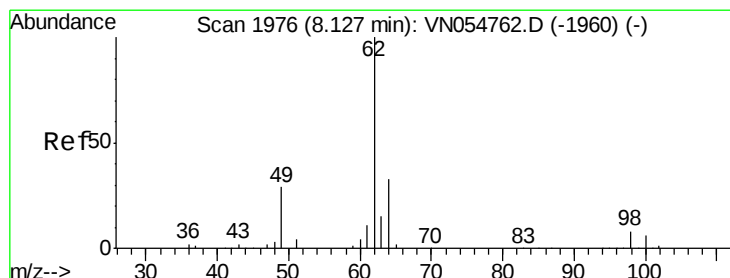
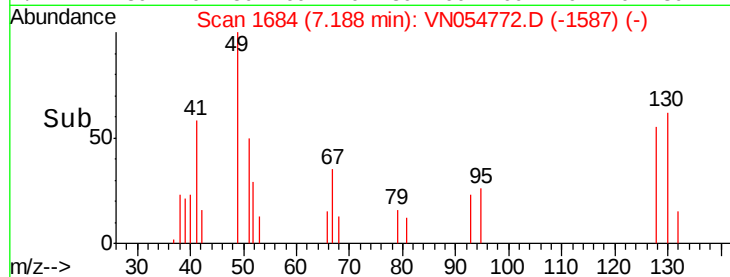
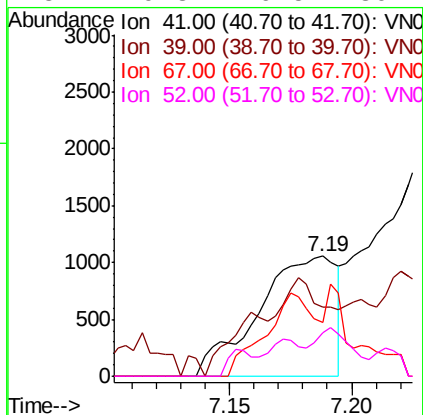
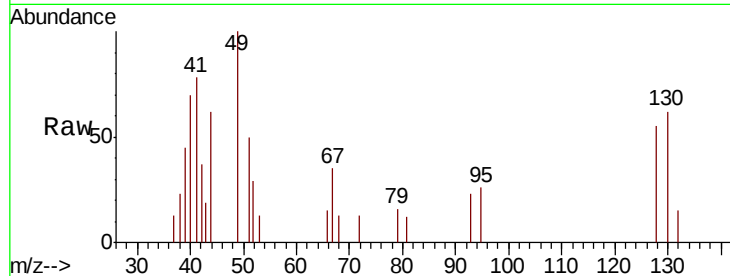
#41
Methacrylonitrile
Concen: 0.905 ug/l
RT: 7.19 min Scan# 1684
Delta R.T. 0.01 min
Lab File: VN054772.D
Acq: 29 Mar 2019 16:13

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT1-2019

Tot Ion	Ratio	Lower	Upper
41	100		
39	0.0	46.8	70.2#
67	28.0	67.0	100.4#
52	19.3	26.5	39.7#

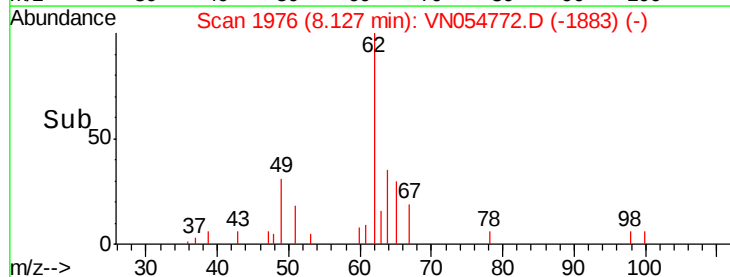
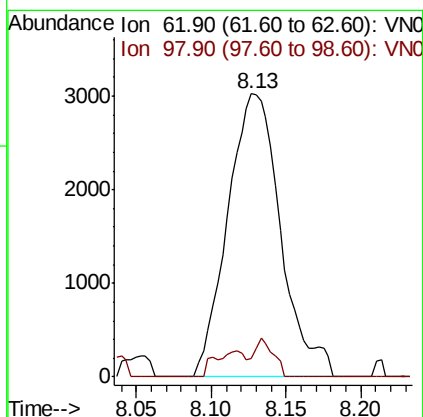
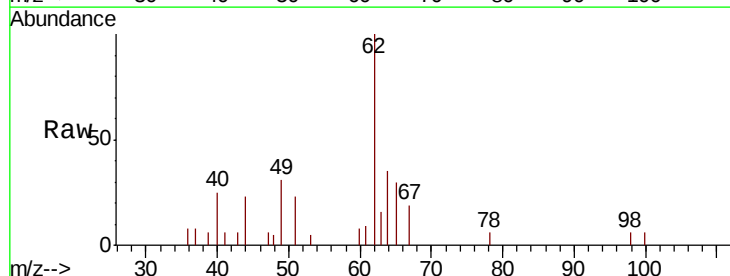
Manual Integrations
APPROVED

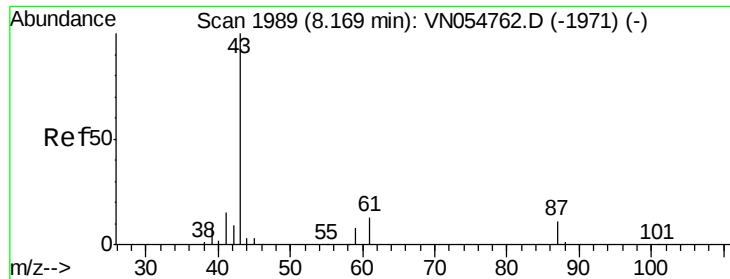
MMDadoda
4/1/2019 3:59:14 PM



#42
1,2-Dichloroethane
Concen: 1.161 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. -0.00 min
Lab File: VN054772.D
Acq: 29 Mar 2019 16:13

Tgt Ion	Ratio	Lower	Upper
62	100		
98	5.0	0.0	18.4





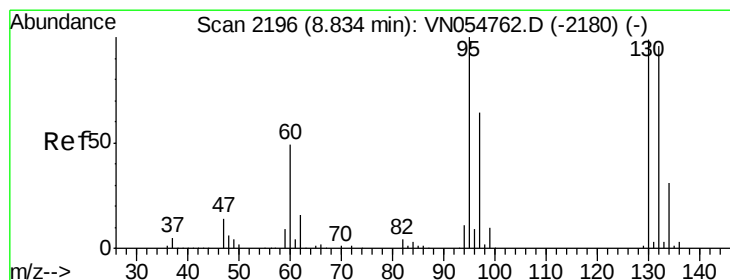
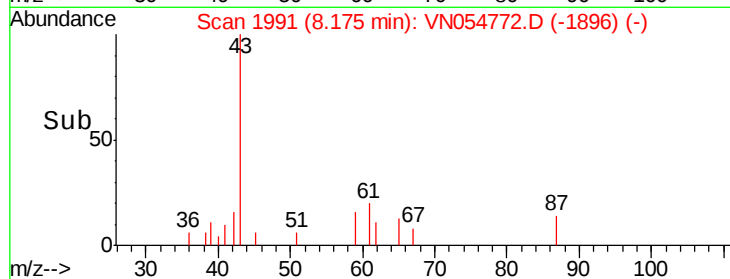
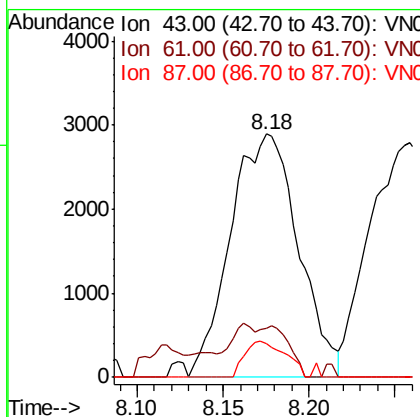
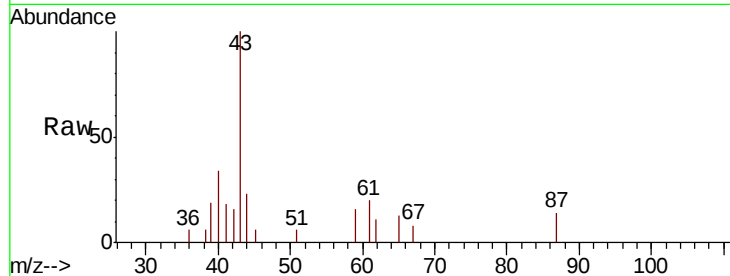
#43
Isopropyl Acetate
Concen: 1.059 ug/l
RT: 8.18 min Scan# 1991
Delta R.T. 0.01 min
Lab File: VN054772.D
Acq: 29 Mar 2019 16:13

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT1-2019

Tot Ion	Ratio	Lower	Upper
43	100		
61	3.7	15.8	23.8#
87	8.8	12.0	18.0#

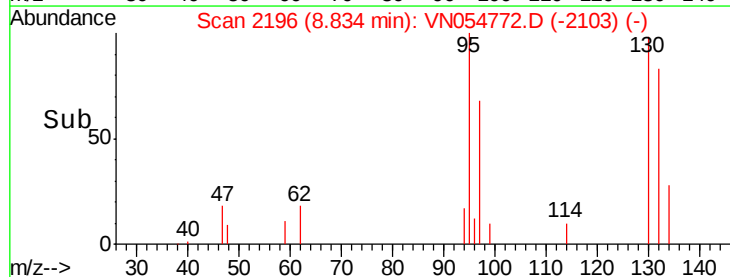
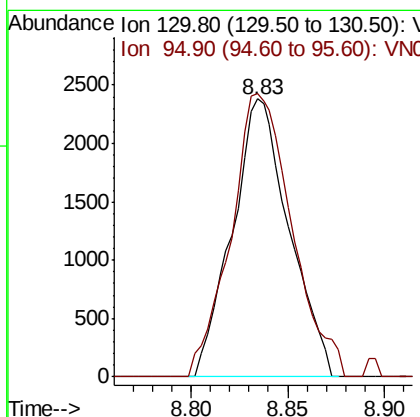
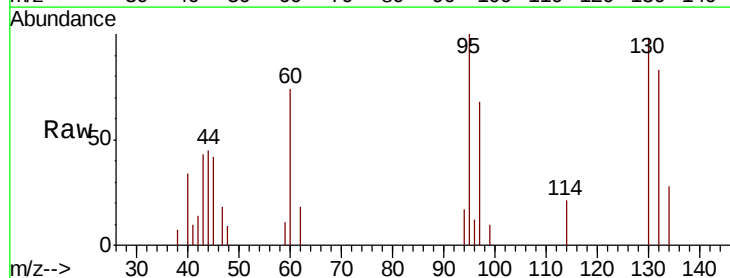
Manual Integrations
APPROVED

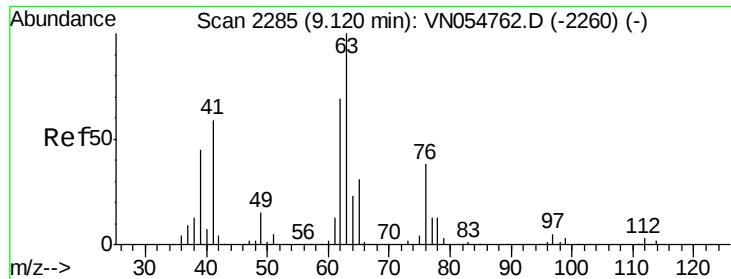
MMDadoda
4/1/2019 3:59:14 PM



#44
Trichloroethene
Concen: 1.045 ug/l
RT: 8.83 min Scan# 2196
Delta R.T. -0.00 min
Lab File: VN054772.D
Acq: 29 Mar 2019 16:13

Tgt Ion	Ratio	Lower	Upper
130	100		
95	101.8	0.0	185.2





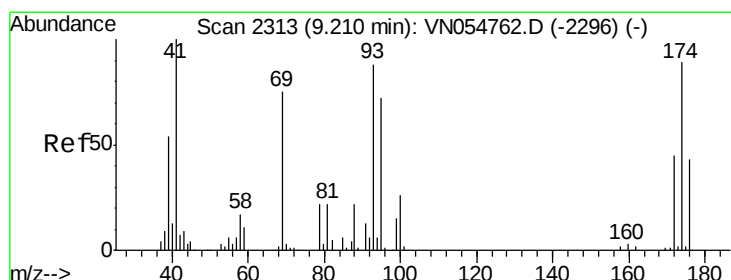
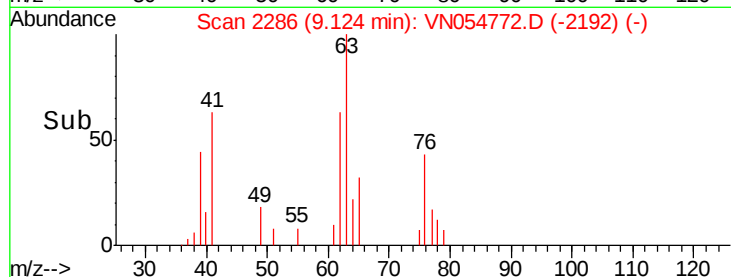
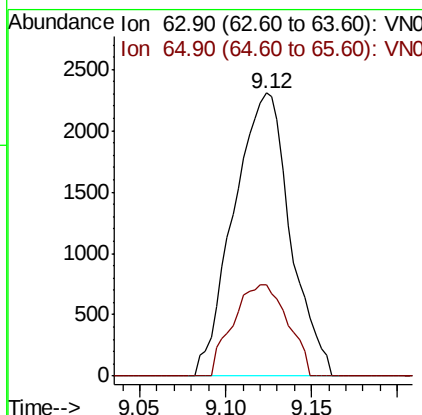
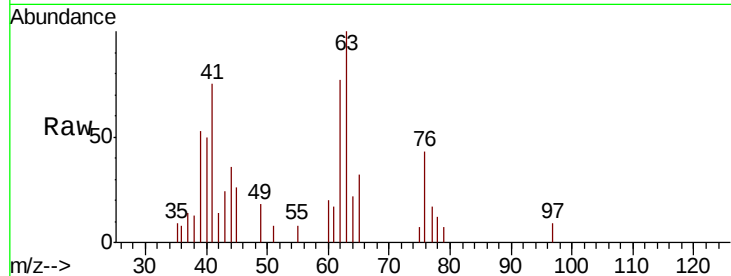
#45
 1,2-Dichloropropane
 Concen: 1.024 ug/l
 RT: 9.12 min Scan# 2286
 Delta R.T. 0.00 min
 Lab File: VN054772.D
 Acq: 29 Mar 2019 16:13

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT1-2019

Tot Ion: 63 Resp: 5263
 Ion Ratio Lower Upper
 63 100
 65 32.1 25.0 37.6

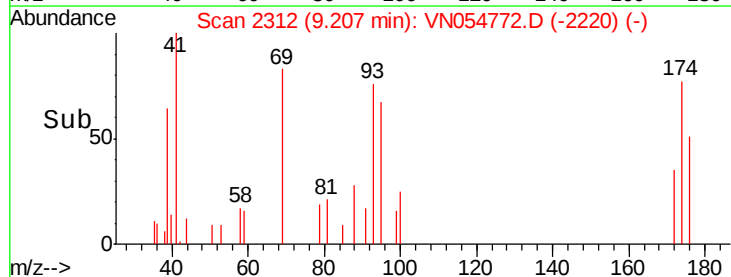
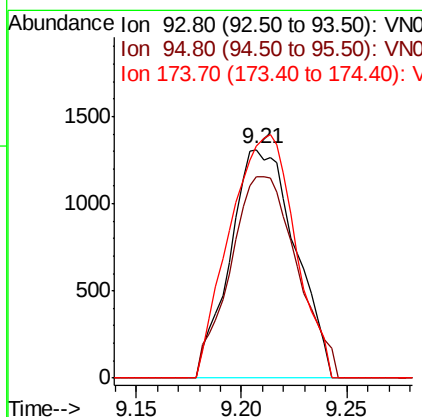
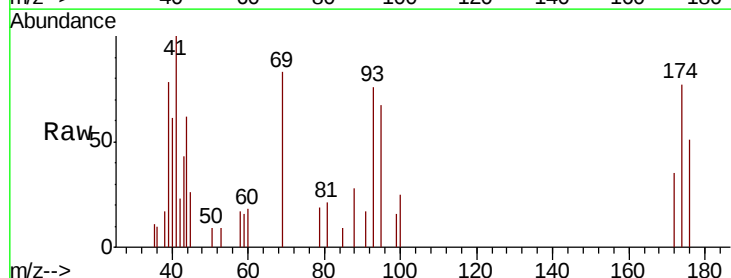
Manual Integrations
 APPROVED

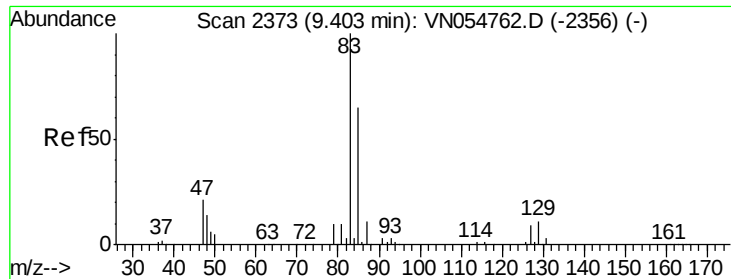
MMDadoda
 4/1/2019 3:59:14 PM



#46
 Dibromomethane
 Concen: 0.973 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. -0.00 min
 Lab File: VN054772.D
 Acq: 29 Mar 2019 16:13

Tgt Ion: 93 Resp: 2812
 Ion Ratio Lower Upper
 93 100
 95 90.5 66.7 100.1
 174 107.3 98.5 147.7





#47

Bromodichloromethane

Concen: 0.935 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN054772.D

Acq: 29 Mar 2019 16:13

Instrument :

MSVOA_N

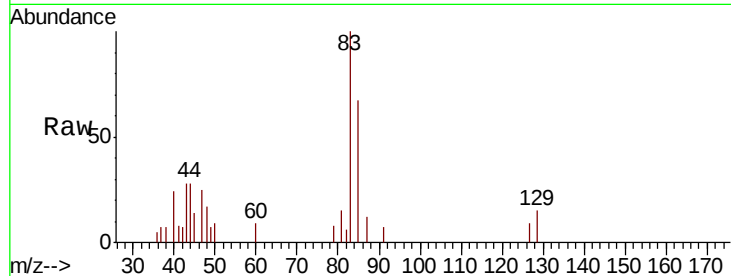
ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

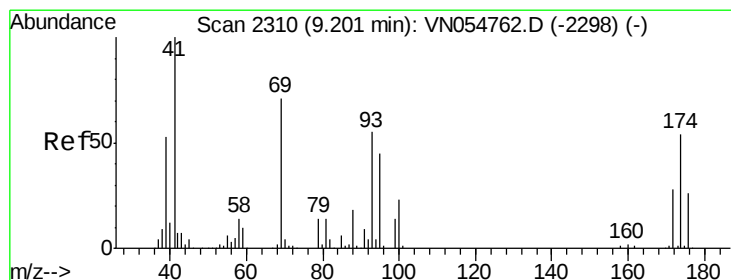
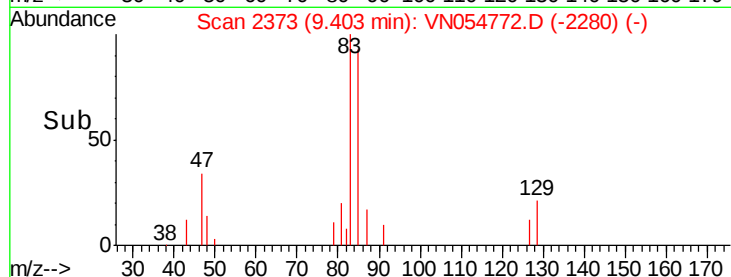
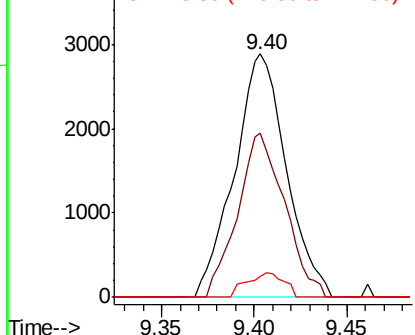
Tot Ion:	83	Resp:	5614
Ion	Ratio	Lower	Upper
83	100		
85	67.3	52.8	79.2
127	8.8	7.4	11.2

Manual Integrations
APPROVED

MMDadoda
4/1/2019 3:59:14 PM



Abundance Ion 82.90 (82.60 to 83.60): VNC
Ion 84.90 (84.60 to 85.60): VNC
Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 0.767 ug/l

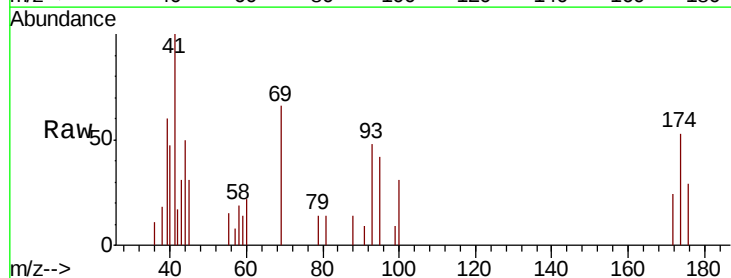
RT: 9.20 min Scan# 2309

Delta R.T. -0.00 min

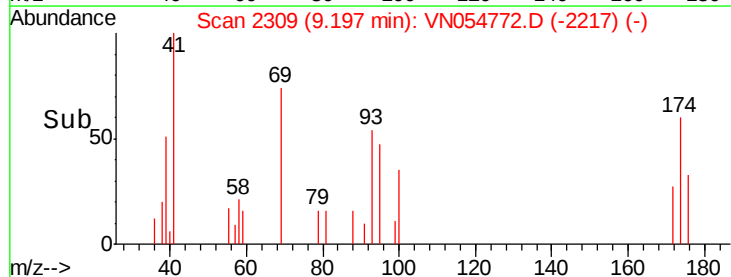
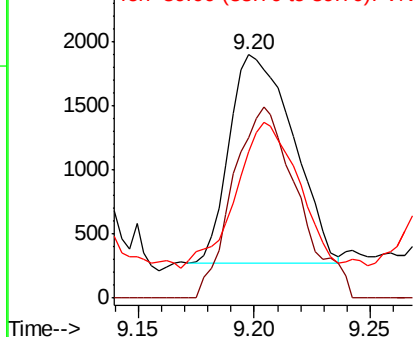
Lab File: VN054772.D

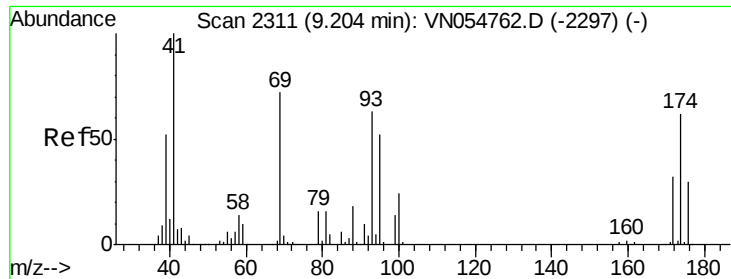
Acq: 29 Mar 2019 16:13

Tgt Ion:	41	Resp:	3120
Ion	Ratio	Lower	Upper
41	100		
69	93.4	72.6	108.8
39	74.1	47.5	71.3#



Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC





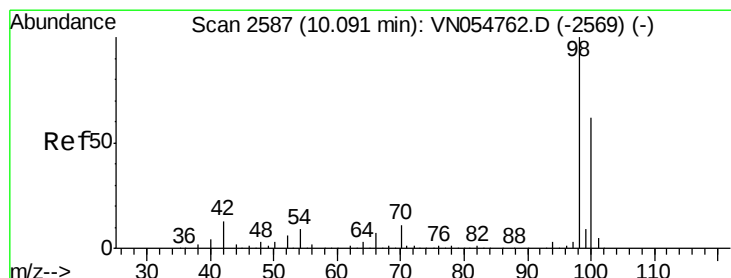
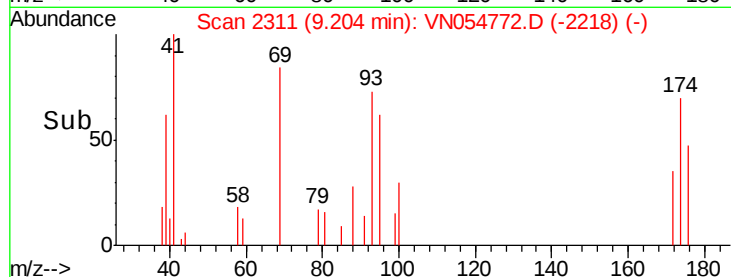
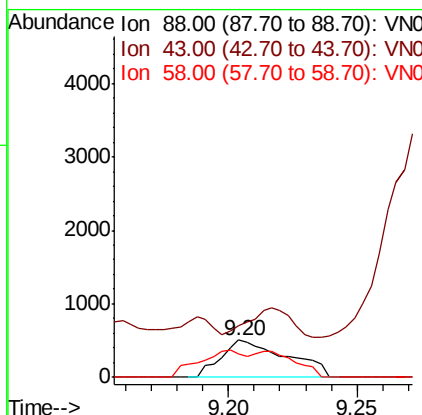
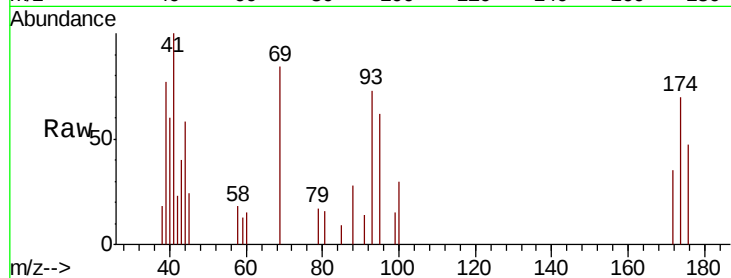
#49
1,4-Dioxane
Concen: 22.228 ug/l
RT: 9.20 min Scan# 2311
Delta R.T. -0.00 min
Lab File: VN054772.D
Acq: 29 Mar 2019 16:13

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT1-2019

Tot Ion: 88 Resp: 897
Ion Ratio Lower Upper
88 100
43 51.3 24.1 36.1#
58 51.4 50.8 76.2

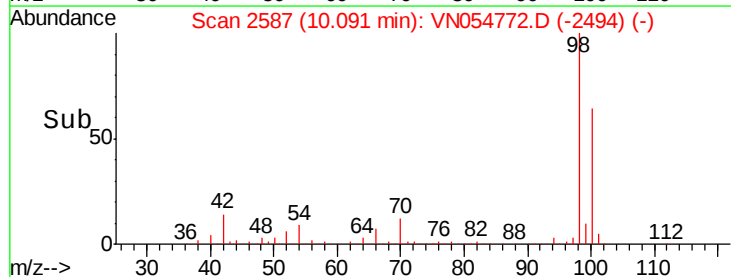
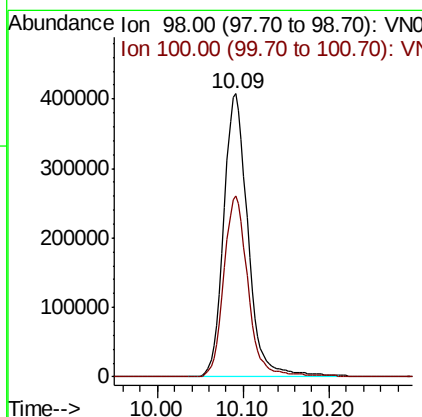
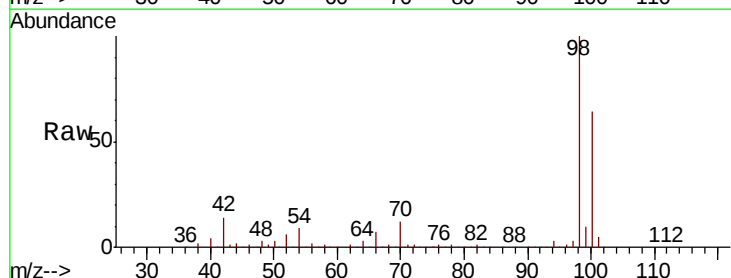
Manual Integrations
APPROVED

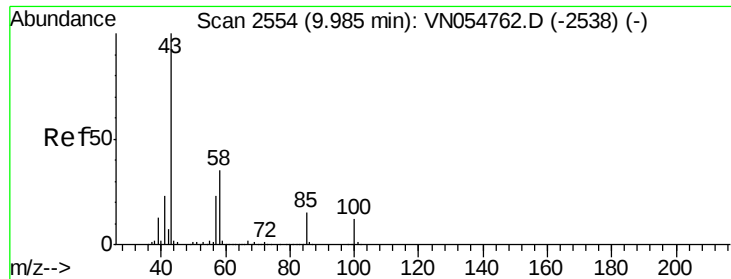
MMDadoda
4/1/2019 3:59:14 PM



#50
Toluene-d8
Concen: 47.767 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN054772.D
Acq: 29 Mar 2019 16:13

Tgt Ion: 98 Resp: 800068
Ion Ratio Lower Upper
98 100
100 64.2 51.2 76.8





#51

4-Methyl-2-Pentanone

Concen: 5.412 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN054772.D

Acq: 29 Mar 2019 16:13

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

Tot Ion: 43 Resp: 22830

Ion Ratio Lower Upper

43 100

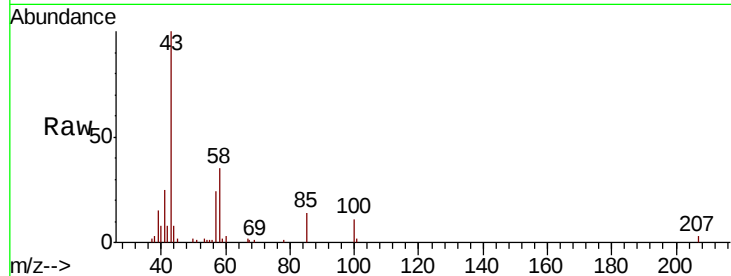
58 37.6 31.8 47.6

Manual Integrations

APPROVED

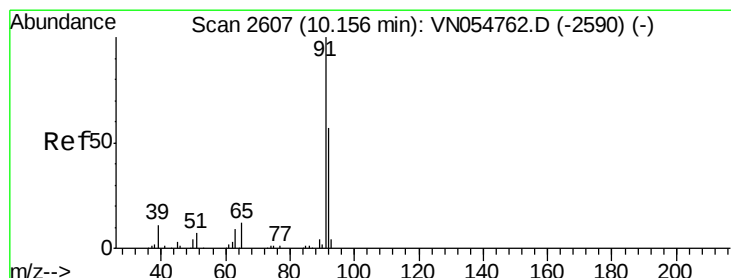
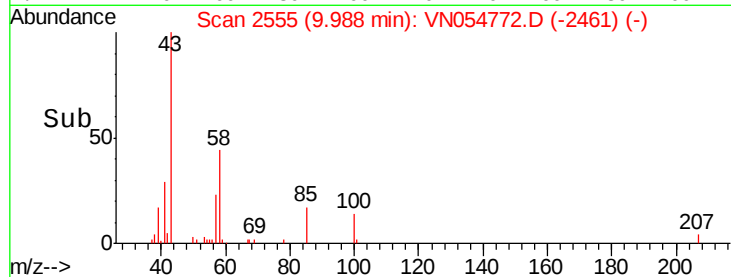
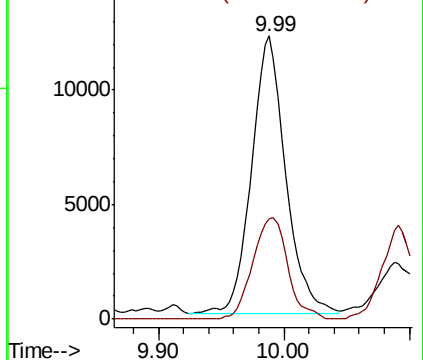
MMDadoda

4/1/2019 3:59:14 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 0.986 ug/l

RT: 10.16 min Scan# 2608

Delta R.T. 0.00 min

Lab File: VN054772.D

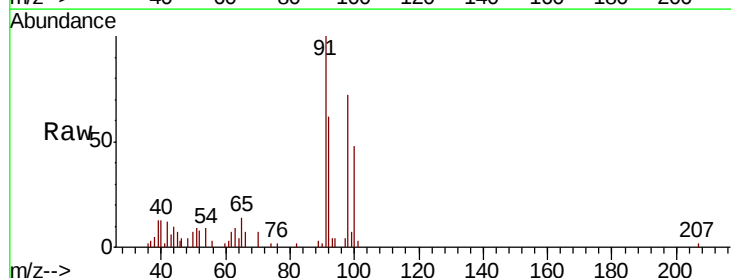
Acq: 29 Mar 2019 16:13

Tgt Ion: 92 Resp: 10572

Ion Ratio Lower Upper

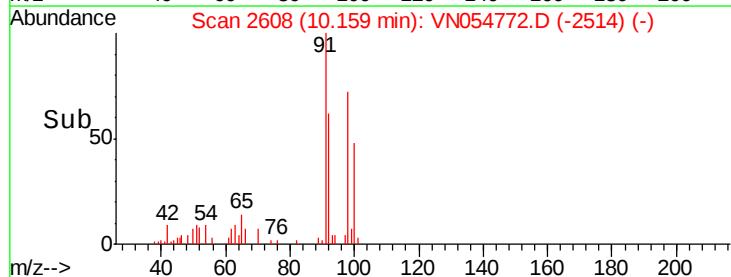
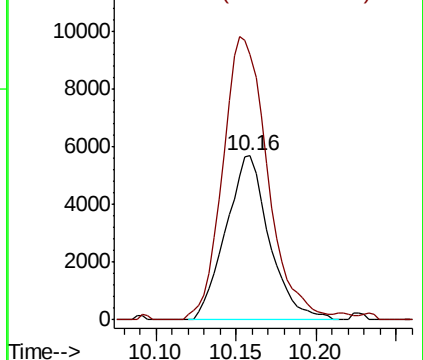
92 100

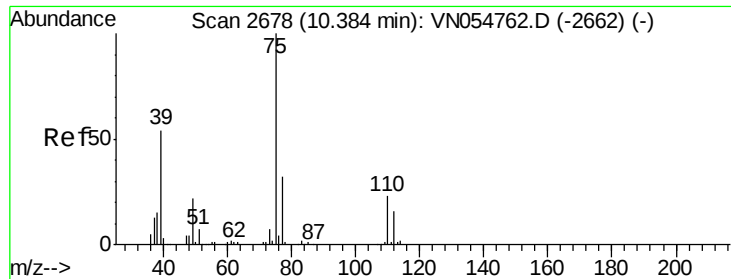
91 177.9 140.7 211.1



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





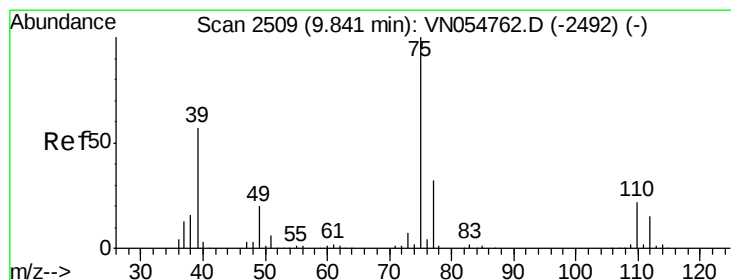
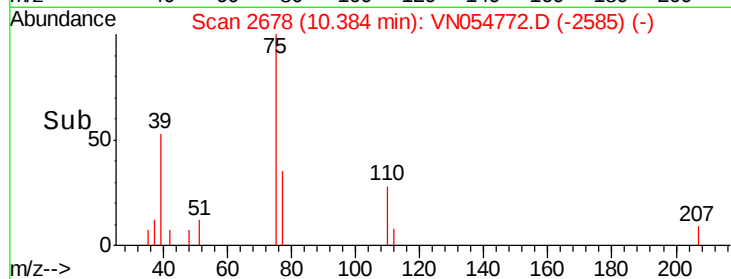
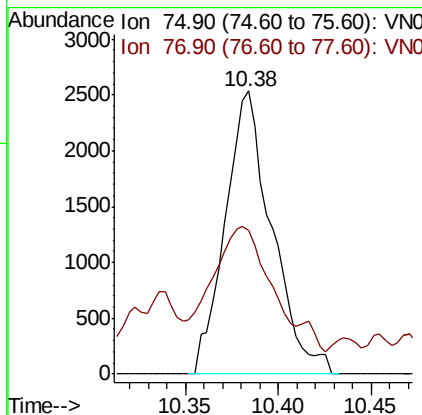
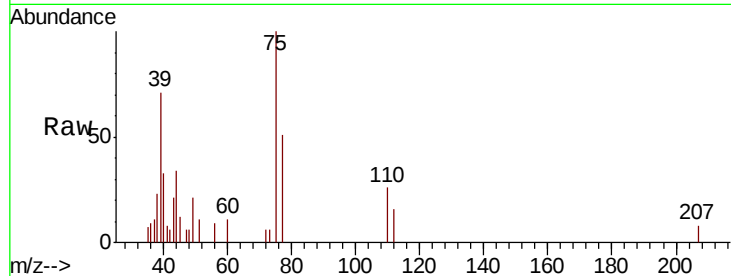
#53
 t-1,3-Dichloropropene
 Concen: 0.784 ug/l
 RT: 10.38 min Scan# 2678
 Delta R.T. -0.00 min
 Lab File: VN054772.D
 Acq: 29 Mar 2019 16:13

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT1-2019

Tot Ion: 75 Resp: 4430
 Ion Ratio Lower Upper
 75 100
 77 38.6 25.8 38.8

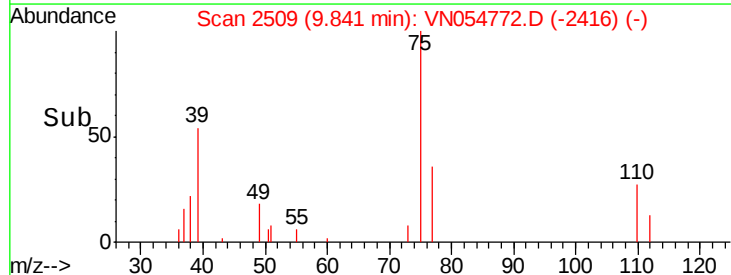
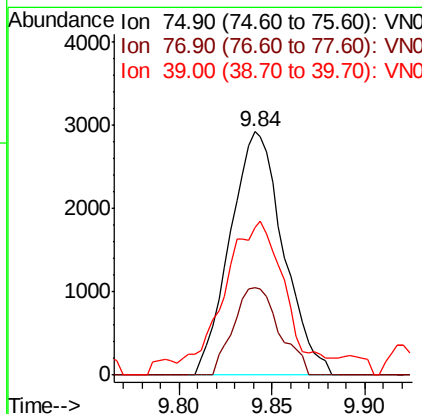
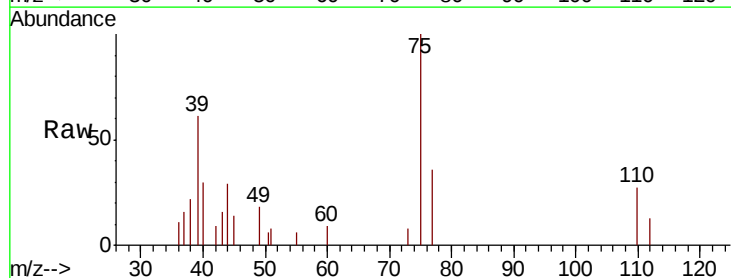
Manual Integrations
 APPROVED

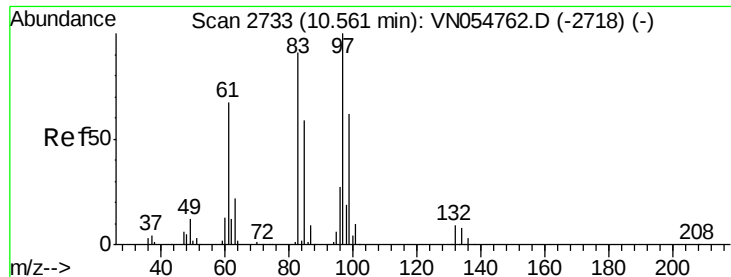
MMDadoda
 4/1/2019 3:59:14 PM



#54
 cis-1,3-Dichloropropene
 Concen: 0.860 ug/l
 RT: 9.84 min Scan# 2509
 Delta R.T. -0.00 min
 Lab File: VN054772.D
 Acq: 29 Mar 2019 16:13

Tgt Ion: 75 Resp: 5807
 Ion Ratio Lower Upper
 75 100
 77 35.9 25.4 38.0
 39 53.9 37.2 55.8





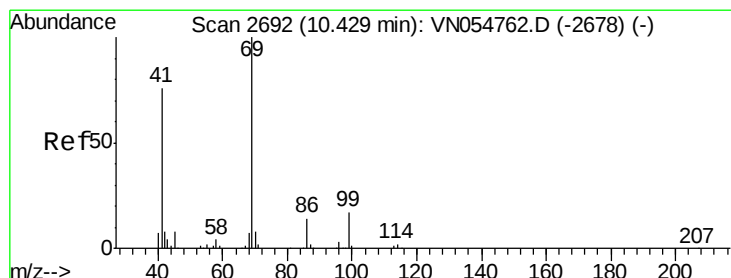
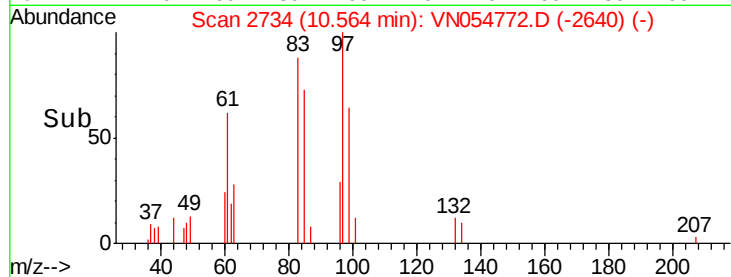
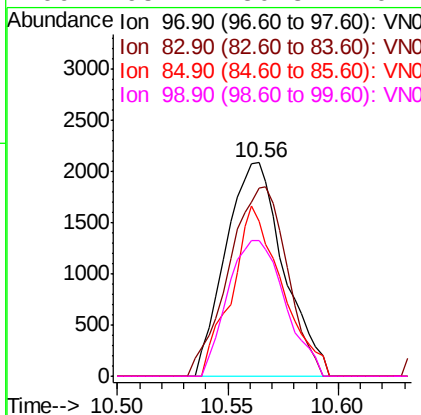
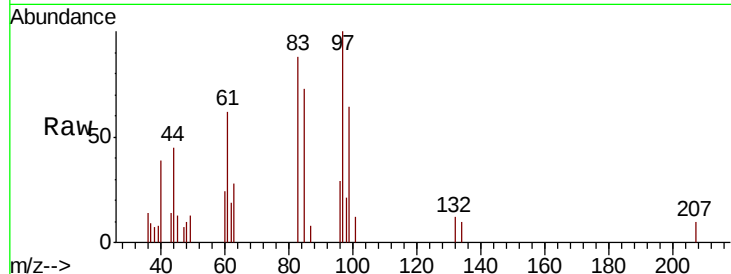
#55
 1,1,2-Trichloroethane
 Concen: 0.955 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VN054772.D
 Acq: 29 Mar 2019 16:13

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT1-2019

Tot Ion:	97	Resp:	3809
Ion	Ratio	Lower	Upper
97	100		
83	88.4	66.6	100.0
85	72.7	44.4	66.6#
99	63.7	50.8	76.2

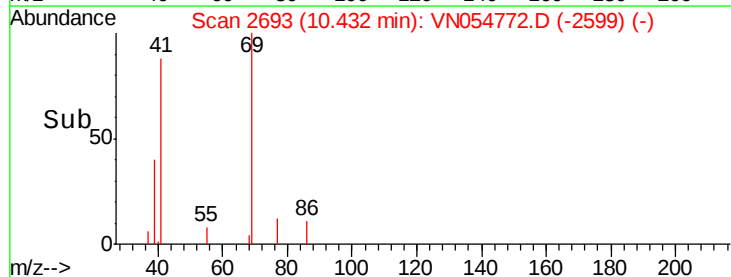
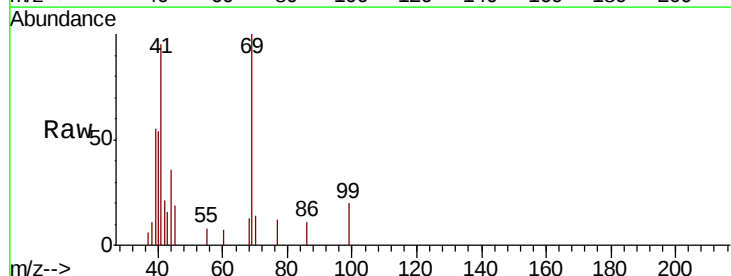
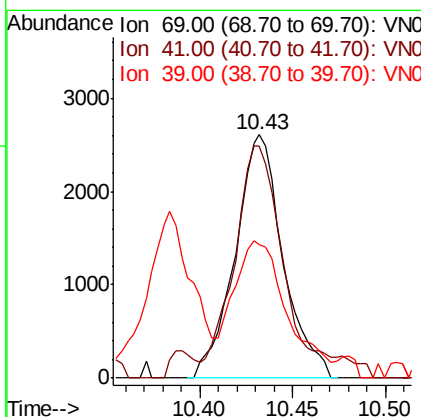
Manual Integrations
 APPROVED

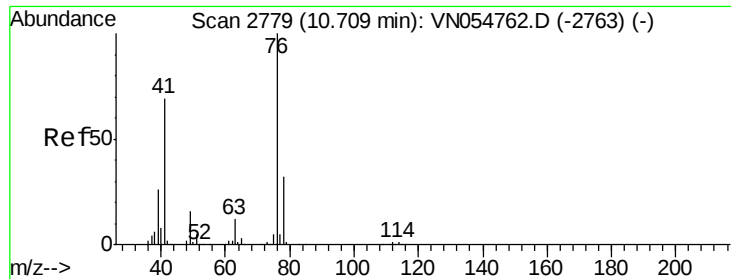
MMDadoda
 4/1/2019 3:59:14 PM



#56
 Ethyl methacrylate
 Concen: 0.892 ug/l
 RT: 10.43 min Scan# 2693
 Delta R.T. 0.00 min
 Lab File: VN054772.D
 Acq: 29 Mar 2019 16:13

Tgt Ion:	69	Resp:	4664
Ion	Ratio	Lower	Upper
69	100		
41	102.3	49.4	74.2#
39	53.8	28.3	42.5#





#57

1,3-Dichloropropane

Concen: 0.998 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. -0.00 min

Lab File: VN054772.D

Acq: 29 Mar 2019 16:13

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

Tot Ion: 76 Resp: 6838

Ion Ratio Lower Upper

76 100

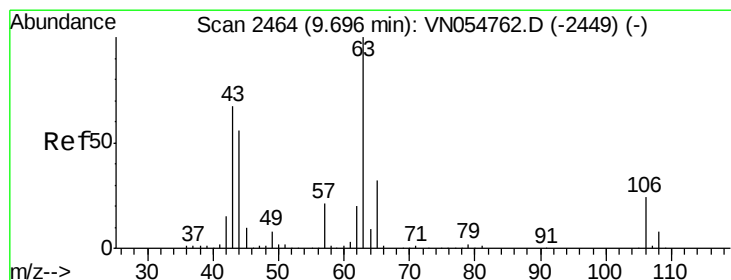
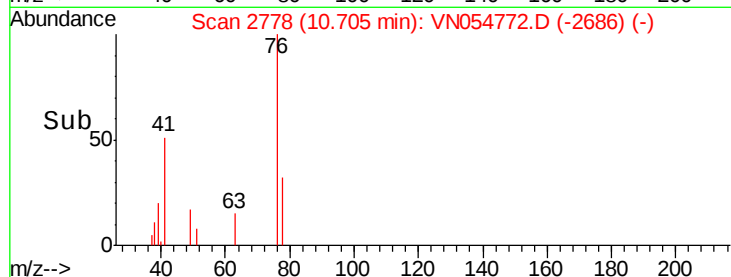
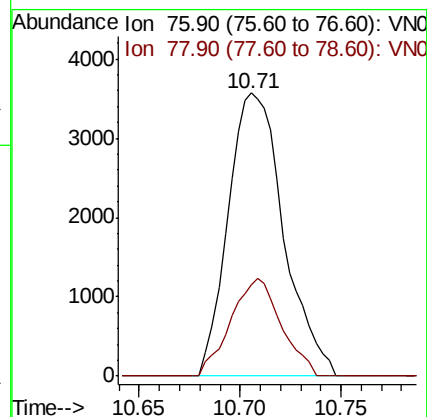
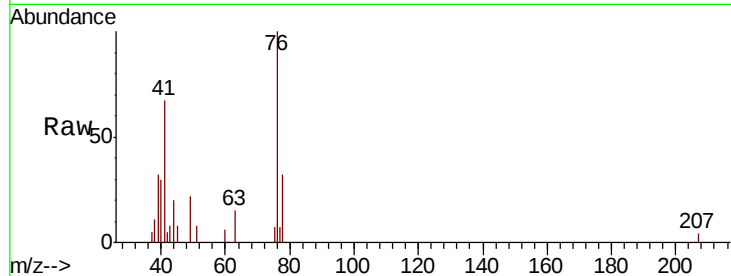
78 31.4 25.7 38.5

Manual Integrations

APPROVED

MMDadoda

4/1/2019 3:59:14 PM



#58

2-Chloroethyl Vinyl ether

Concen: 13.985 ug/l

RT: 9.69 min Scan# 2463

Delta R.T. -0.00 min

Lab File: VN054772.D

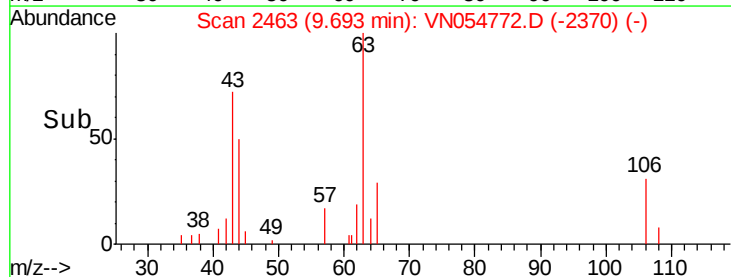
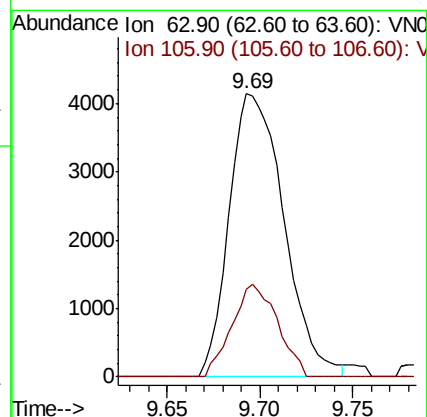
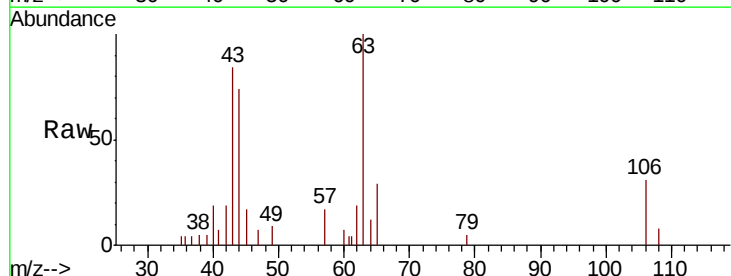
Acq: 29 Mar 2019 16:13

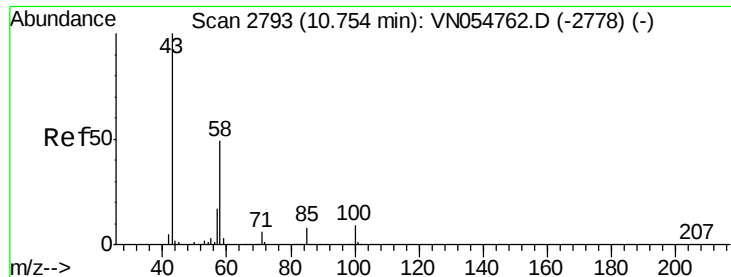
Tgt Ion: 63 Resp: 8531

Ion Ratio Lower Upper

63 100

106 27.2 24.4 36.6





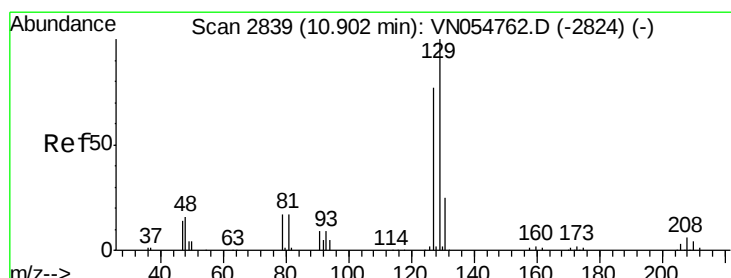
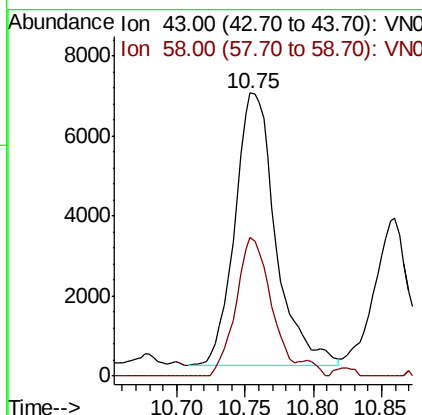
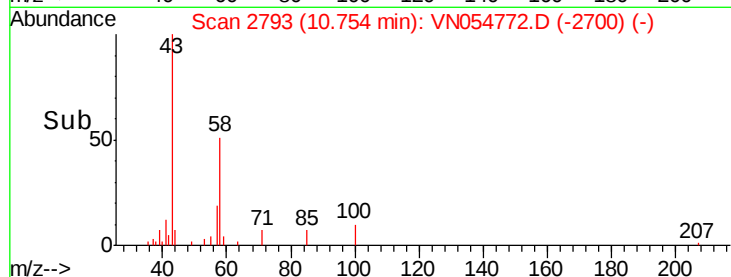
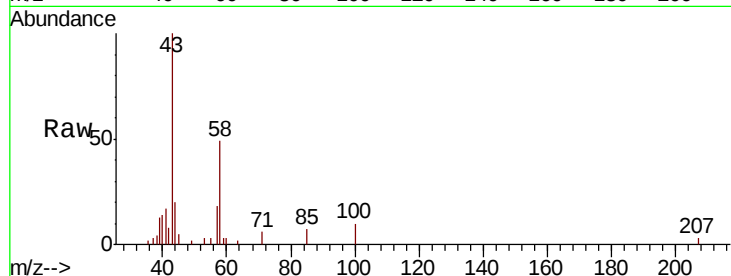
#59
2-Hexanone
Concen: 5.236 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. -0.00 min
Lab File: VN054772.D
Acq: 29 Mar 2019 16:13

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT1-2019

Tot Ion	43.00	Resp	14139
Ion Ratio	43	100	
Lower	28.0		
Upper	83.9		

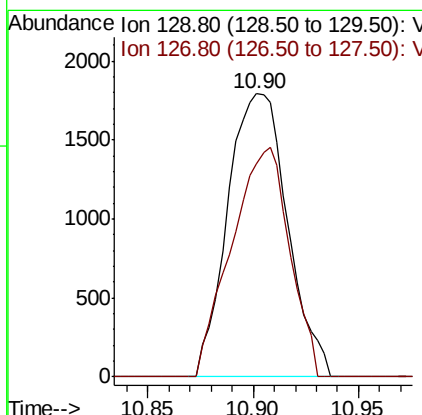
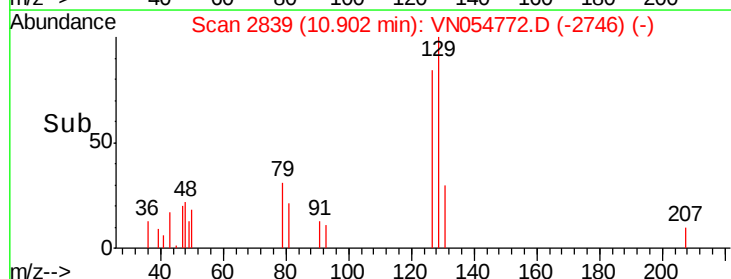
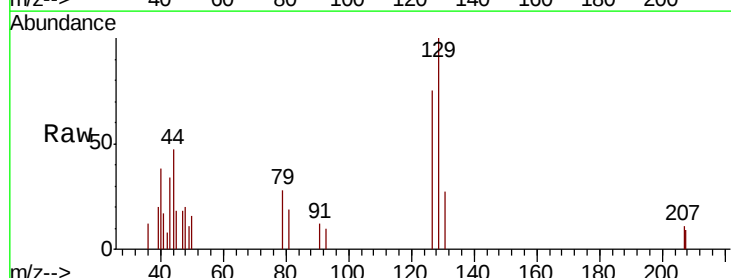
Manual Integrations
APPROVED

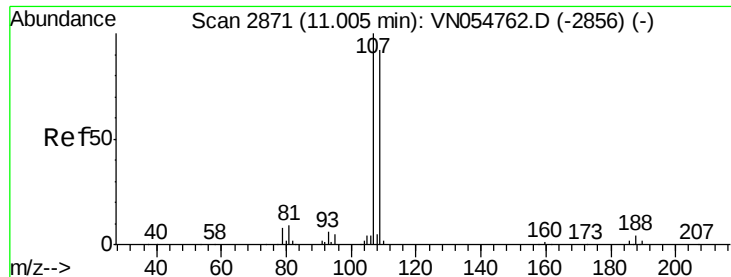
MMDadoda
4/1/2019 3:59:14 PM



#60
Dibromochloromethane
Concen: 0.874 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN054772.D
Acq: 29 Mar 2019 16:13

Tgt Ion	129	Resp	3531
Ion Ratio	129	100	
Lower	38.6		
Upper	115.8		





#61

1,2-Dibromoethane

Concen: 0.967 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. 0.00 min

Lab File: VN054772.D

Acq: 29 Mar 2019 16:13

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

Tot Ion: 107 Resp: 3683

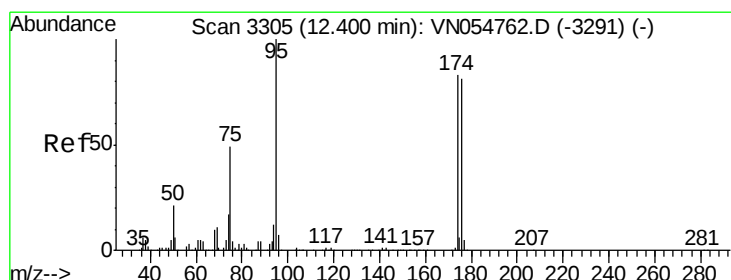
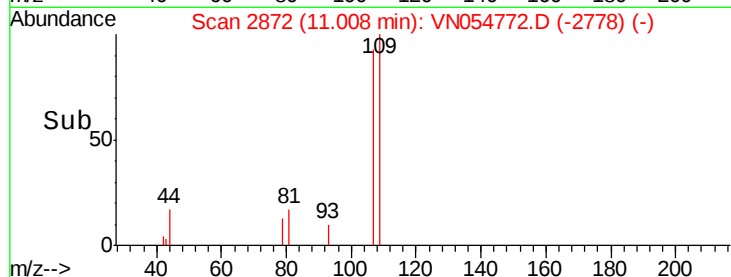
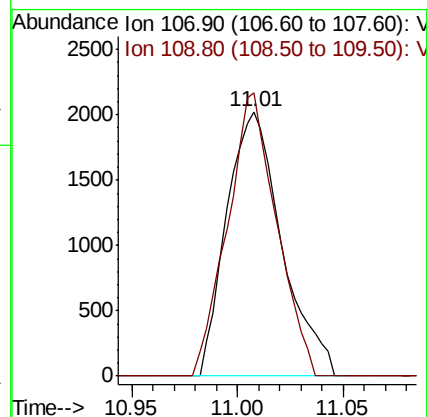
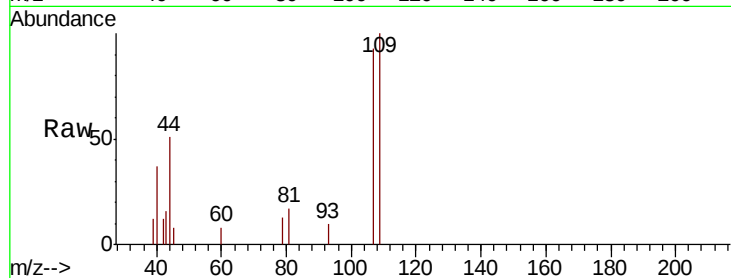
Ion Ratio Lower Upper

107 100

109 95.0 75.9 113.9

Manual Integrations
APPROVED

MMDadoda
4/1/2019 3:59:14 PM



#62

4-Bromofluorobenzene

Concen: 43.742 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN054772.D

Acq: 29 Mar 2019 16:13

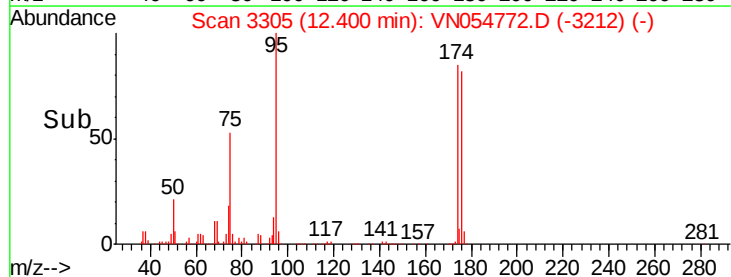
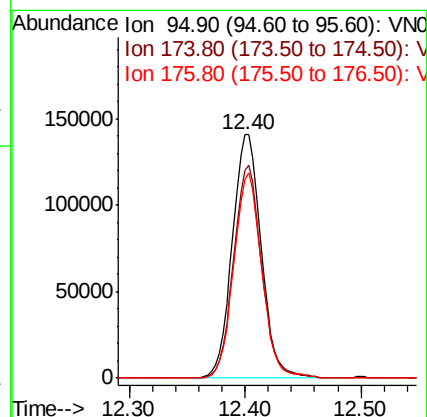
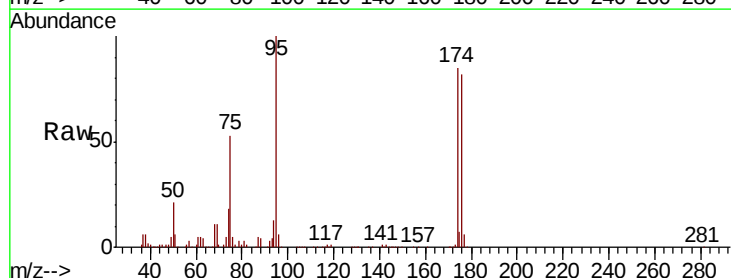
Tgt Ion: 95 Resp: 243666

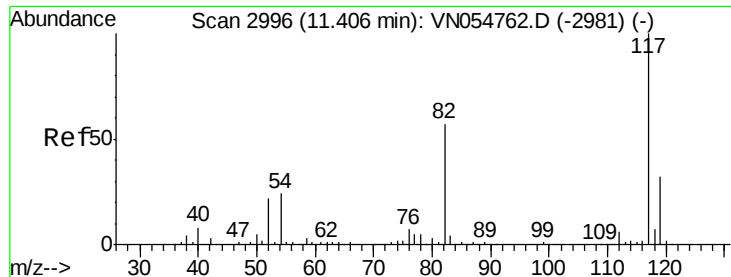
Ion Ratio Lower Upper

95 100

174 84.7 0.0 191.0

176 81.1 0.0 187.4





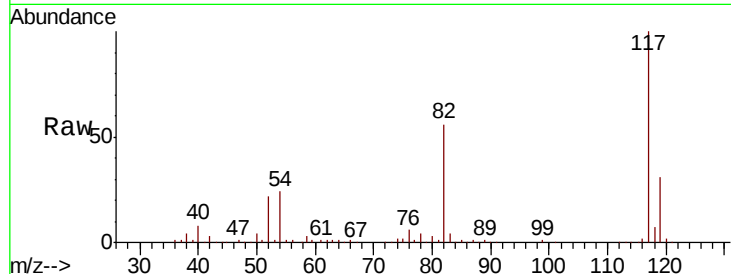
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN054772.D
Acq: 29 Mar 2019 16:13

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT1-2019

Tot Ion	Ratio	Lower	Upper
117	100		
82	56.4	40.0	60.0
119	31.4	25.8	38.6

Manual Integrations
APPROVED

MMDadoda
4/1/2019 3:59:14 PM

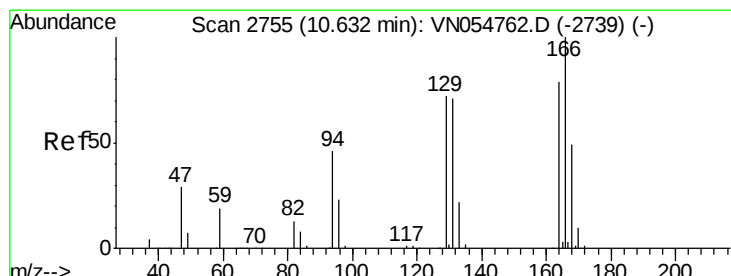
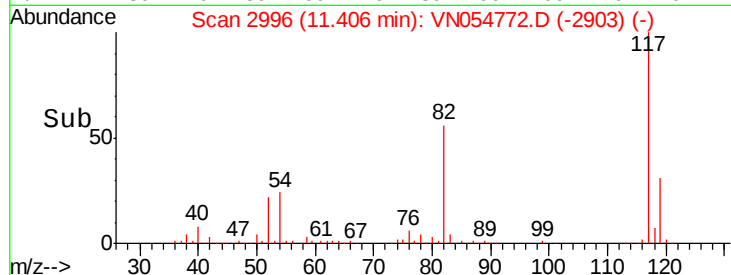
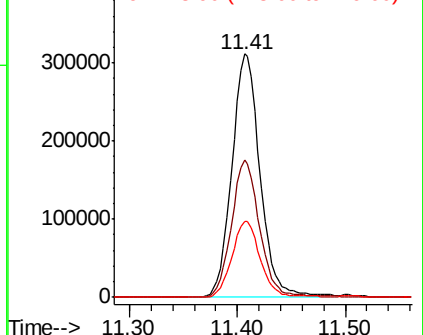


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64
Tetrachloroethene
Concen: 1.084 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. -0.00 min
Lab File: VN054772.D
Acq: 29 Mar 2019 16:13

Tgt Ion	Ratio	Lower	Upper
164	100		
166	119.1	103.9	155.9
129	80.4	71.1	106.7
131	77.3	68.2	102.4

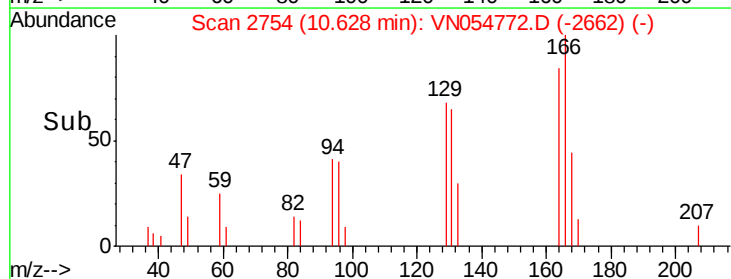
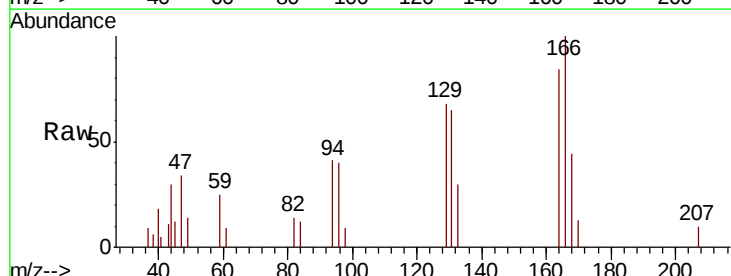
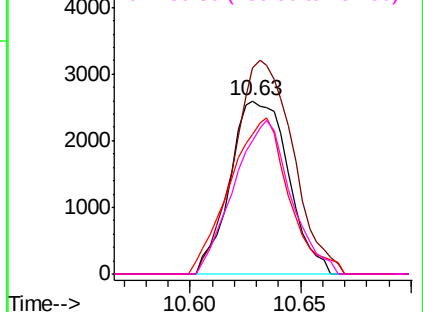
Abundance

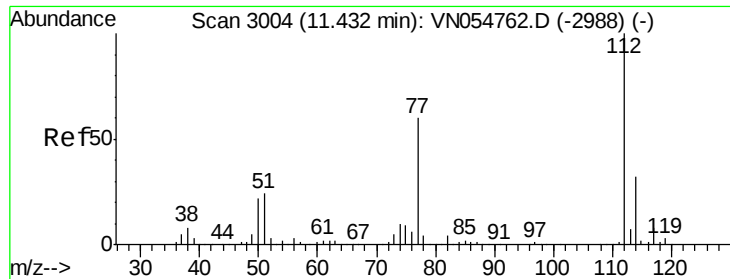
Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





#65

Chlorobenzene

Concen: 0.939 ug/l

RT: 11.44 min Scan# 3005

Delta R.T. 0.00 min

Lab File: VN054772.D

Acq: 29 Mar 2019 16:13

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

Tot Ion:112 Resp: 10461

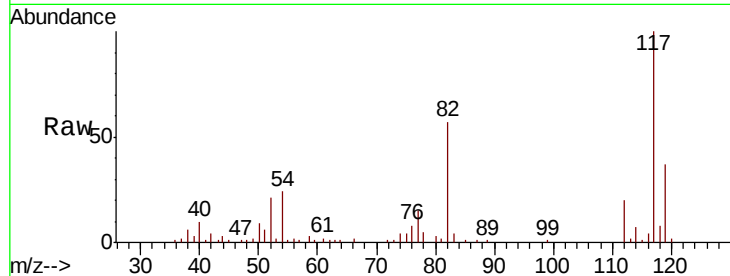
Ion Ratio Lower Upper

112 100

114 33.8 25.9 38.9

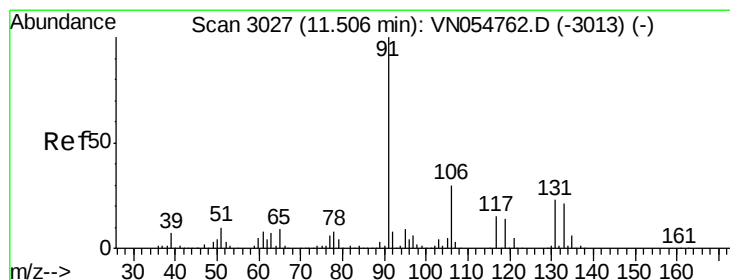
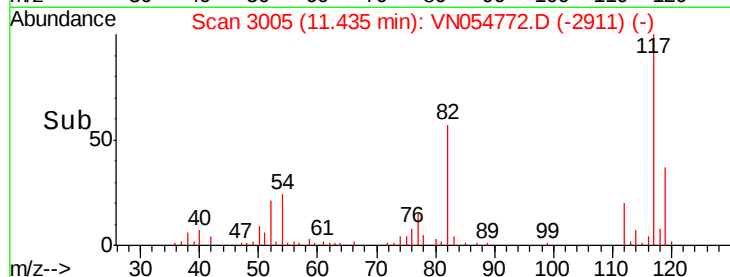
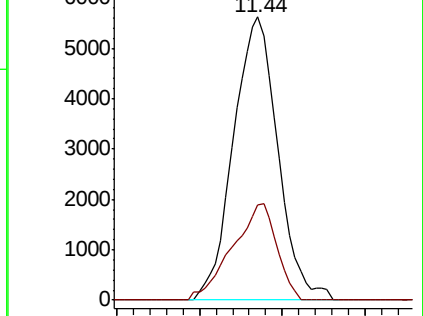
Manual Integrations
APPROVED

MMDadoda
4/1/2019 3:59:14 PM



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 0.922 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN054772.D

Acq: 29 Mar 2019 16:13

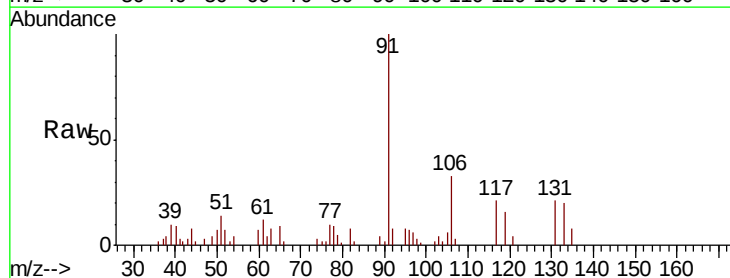
Tgt Ion:131 Resp: 3848

Ion Ratio Lower Upper

131 100

133 107.5 47.6 142.9

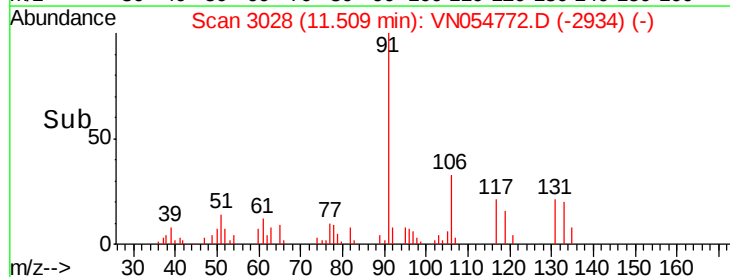
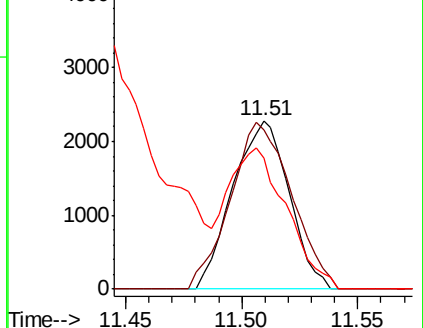
119 0.0 32.4 97.0#

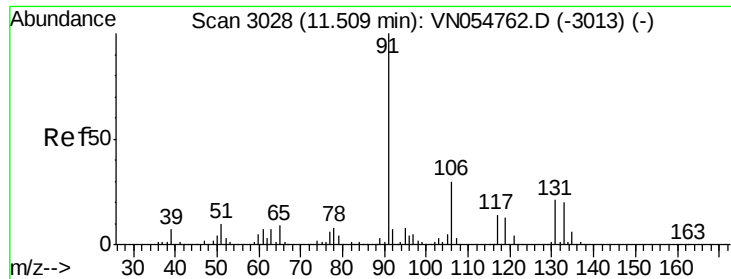


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





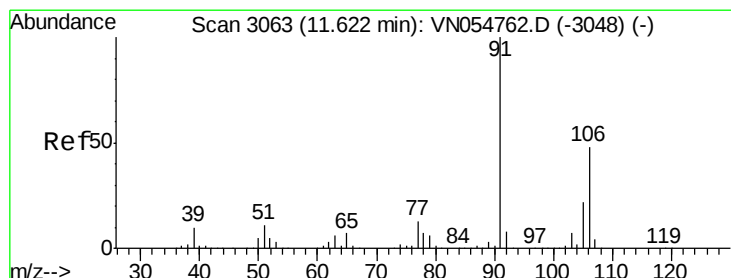
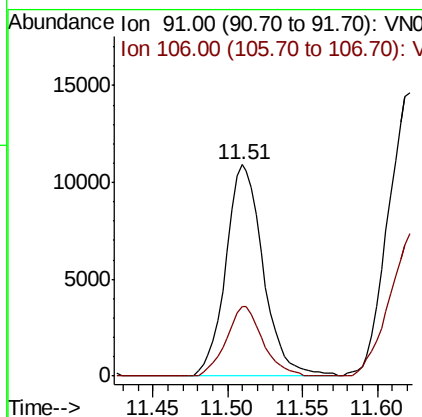
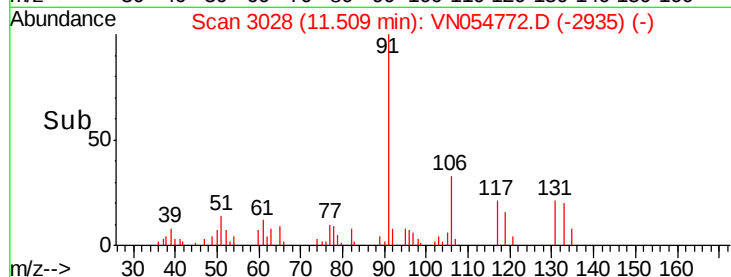
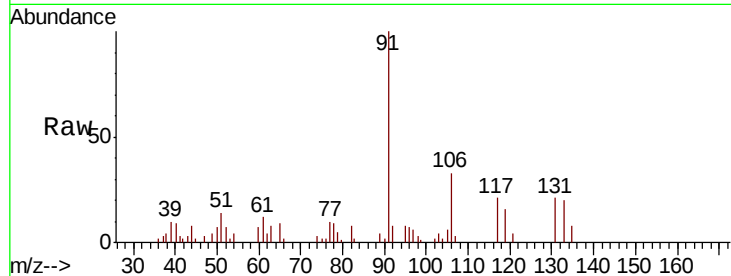
#67
Ethyl Benzene
Concen: 0.943 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN054772.D
Acq: 29 Mar 2019 16:13

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT1-2019

Tot Ion: 91 Resp: 18974
Ion Ratio Lower Upper
91 100
106 33.1 25.5 38.3

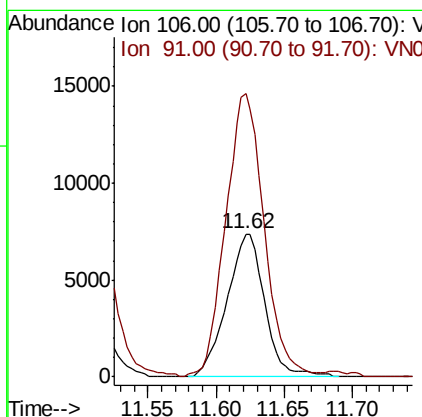
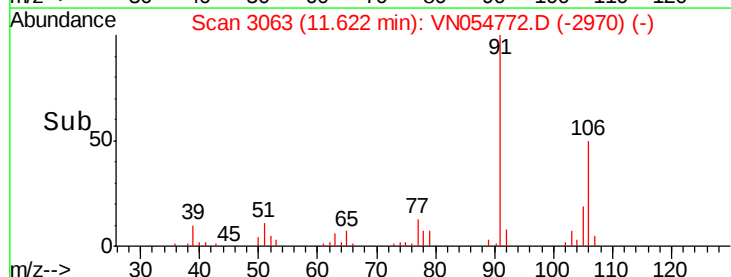
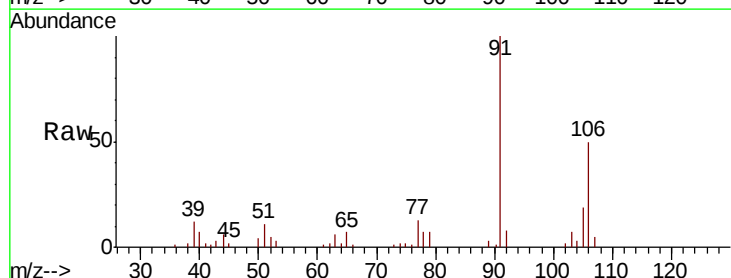
Manual Integrations
APPROVED

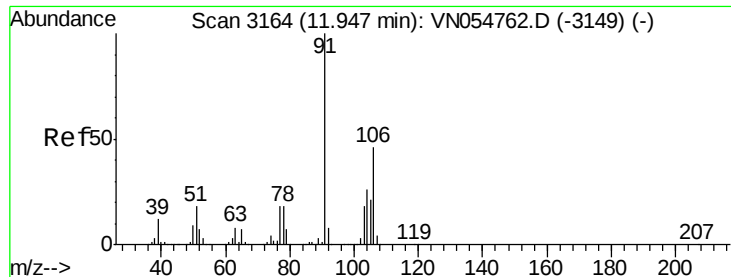
MMDadoda
4/1/2019 3:59:14 PM



#68
m/p-Xylenes
Concen: 1.903 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. -0.00 min
Lab File: VN054772.D
Acq: 29 Mar 2019 16:13

Tgt Ion: 106 Resp: 14160
Ion Ratio Lower Upper
106 100
91 202.1 159.4 239.2





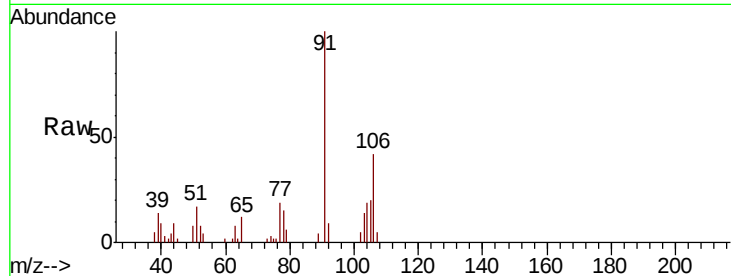
#69
o-Xylene
Concen: 0.927 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN054772.D
Acq: 29 Mar 2019 16:13

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT1-2019

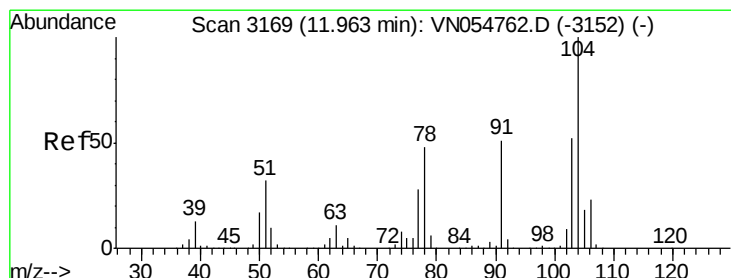
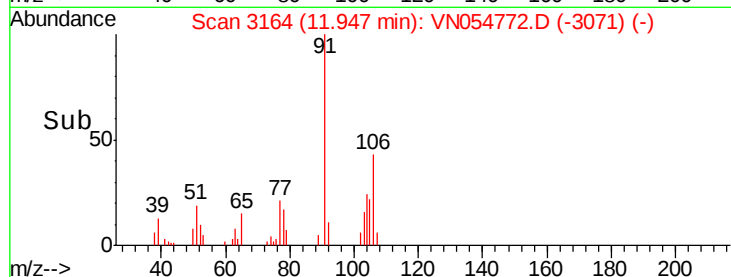
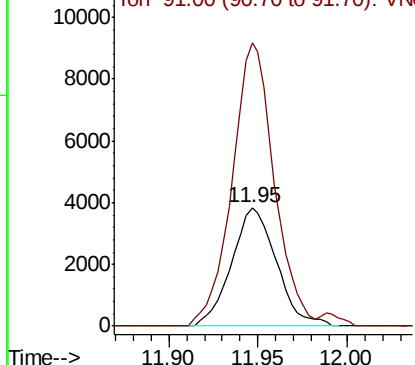
Tot Ion:106 Resp: 6767
Ion Ratio Lower Upper
106 100
91 222.9 105.7 317.1

Manual Integrations
APPROVED

MMDadoda
4/1/2019 3:59:14 PM

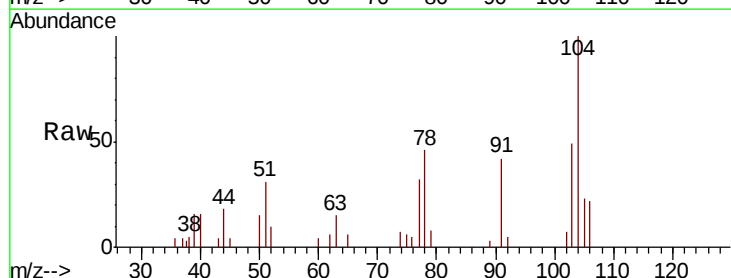


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN

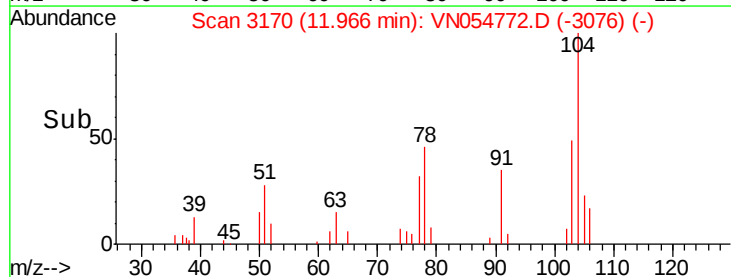
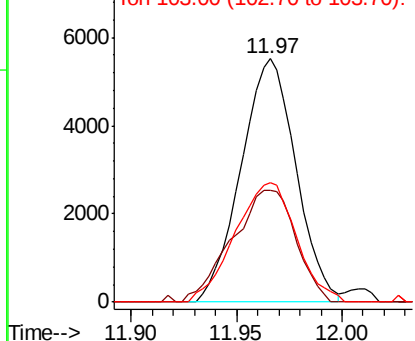


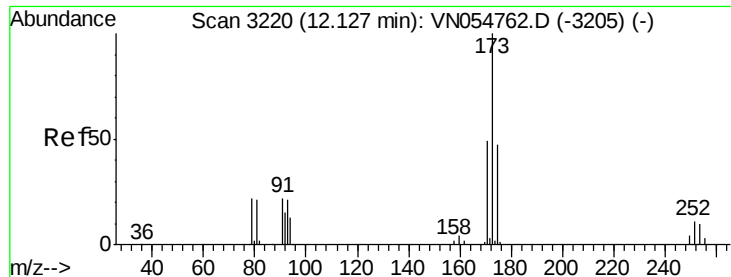
#70
Styrene
Concen: 0.859 ug/l
RT: 11.97 min Scan# 3170
Delta R.T. 0.00 min
Lab File: VN054772.D
Acq: 29 Mar 2019 16:13

Tgt Ion:104 Resp: 10021
Ion Ratio Lower Upper
104 100
78 53.0 38.2 57.2
103 54.6 44.4 66.6



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: 0.814 ug/l

RT: 12.13 min Scan# 3222

Delta R.T. 0.01 min

Lab File: VN054772.D

Acq: 29 Mar 2019 16:13

Instrument :

MSVOA_N

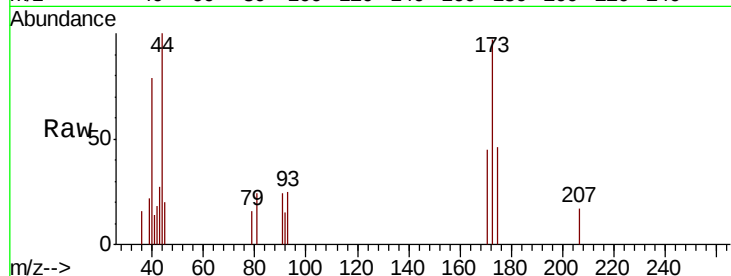
ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

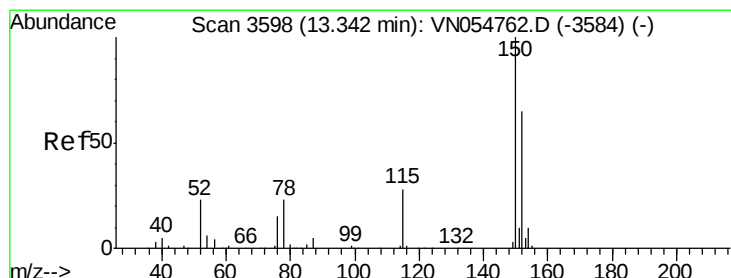
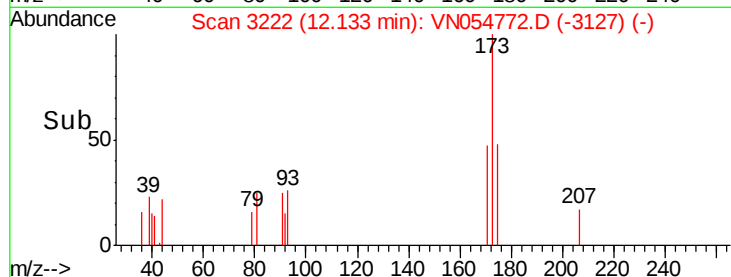
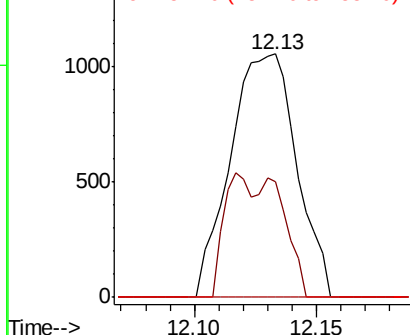
Tot Ion	Ratio	Lower	Upper
173	100		
175	21.8	24.4	73.2#
254	0.0	0.1	0.1#

Manual Integrations
APPROVED

MMDadoda
4/1/2019 3:59:14 PM



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

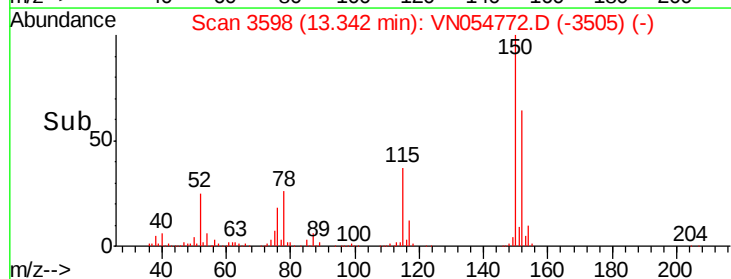
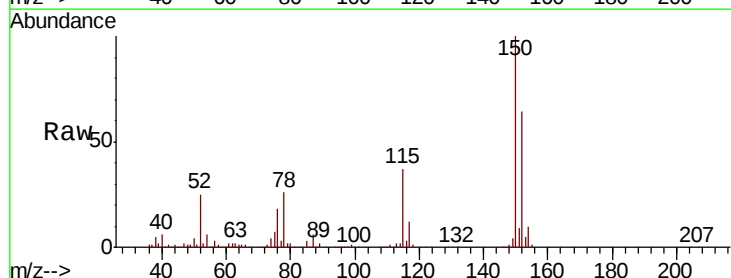
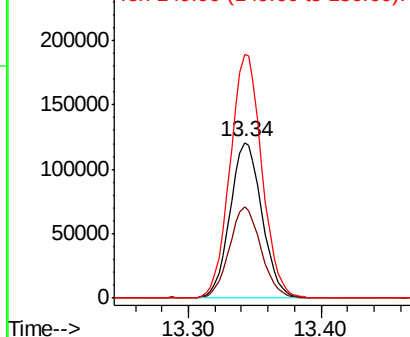
Delta R.T. -0.00 min

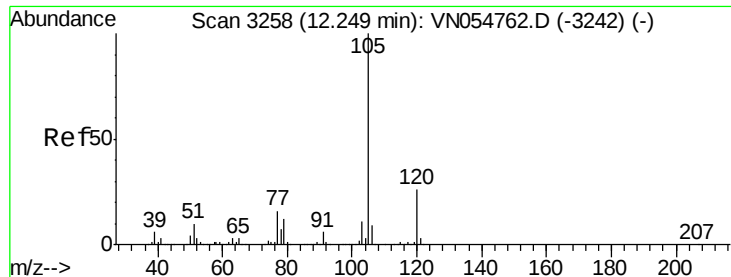
Lab File: VN054772.D

Acq: 29 Mar 2019 16:13

Tgt Ion	Ratio	Lower	Upper
152	100		
115	58.1	27.2	81.6
150	155.1	0.0	349.2

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





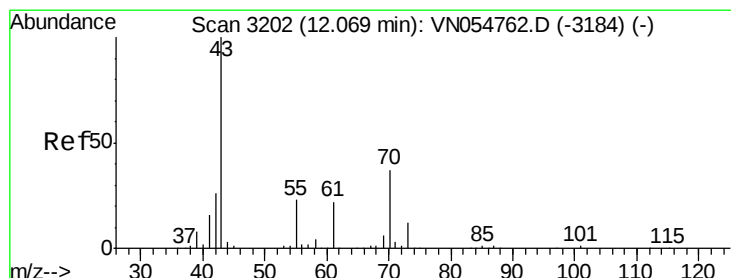
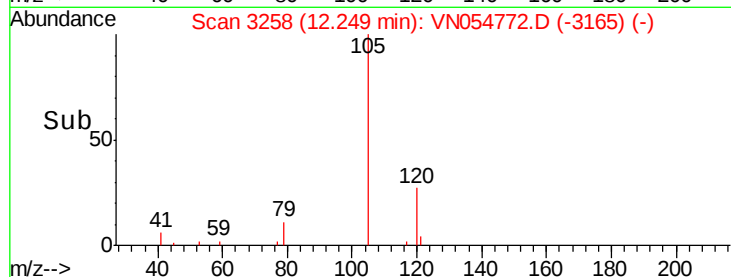
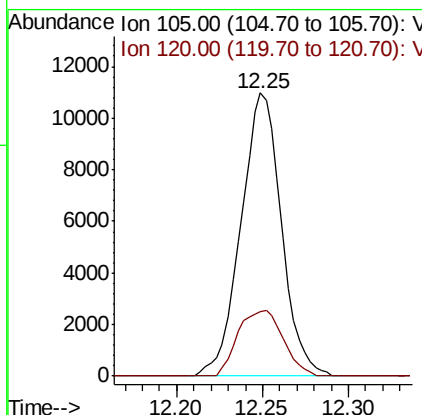
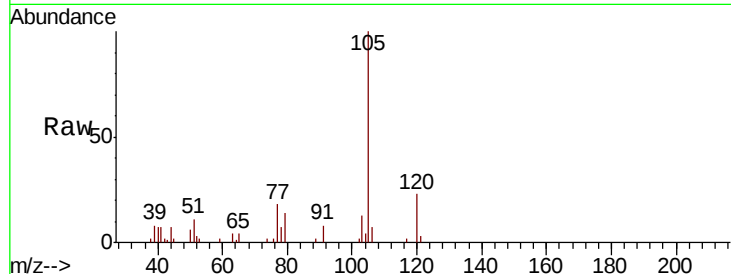
#73
Isopropylbenzene
Concen: 1.088 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. -0.00 min
Lab File: VN054772.D
Acq: 29 Mar 2019 16:13

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT1-2019

Tot Ion	Ratio	Lower	Upper
105	100		
120	26.0	13.8	41.3

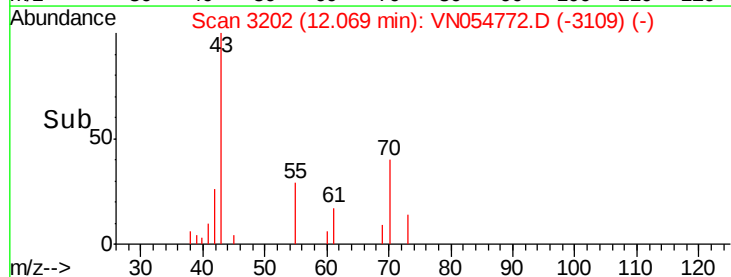
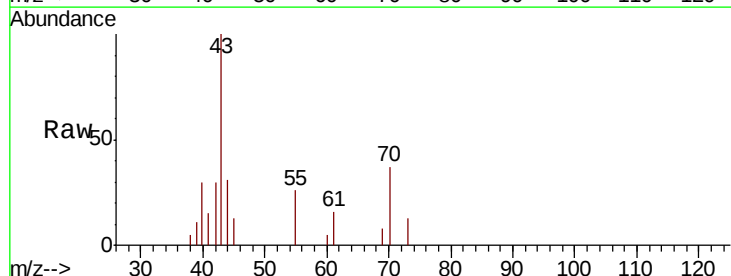
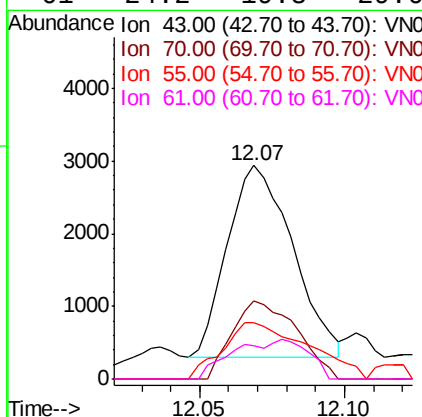
Manual Integrations
APPROVED

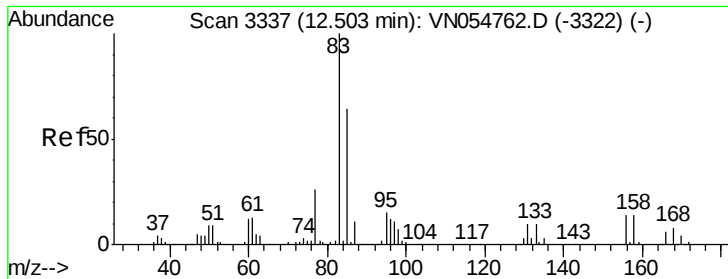
MMDadoda
4/1/2019 3:59:14 PM



#74
N-ethyl acetate
Concen: 0.796 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. -0.00 min
Lab File: VN054772.D
Acq: 29 Mar 2019 16:13

Tgt Ion	Ratio	Lower	Upper
43	100		
70	40.3	35.4	53.0
55	38.8	19.8	29.6
61	24.2	19.8	29.6





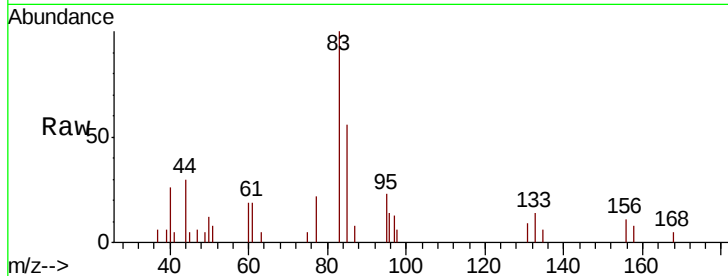
#75
 1,1,2,2-Tetrachloroethane
 Concen: Below Cal
 RT: 12.50 min Scan# 3337
 Delta R.T. 0.00 min
 Lab File: VN054772.D
 Acq: 29 Mar 2019 16:13

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT1-2019

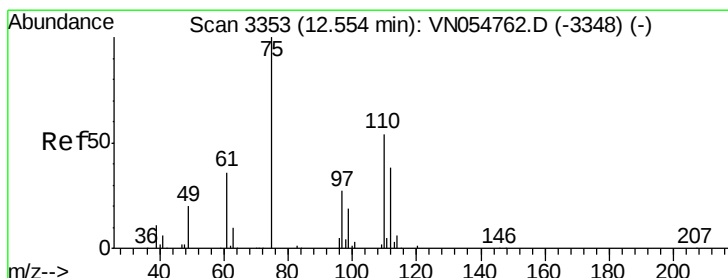
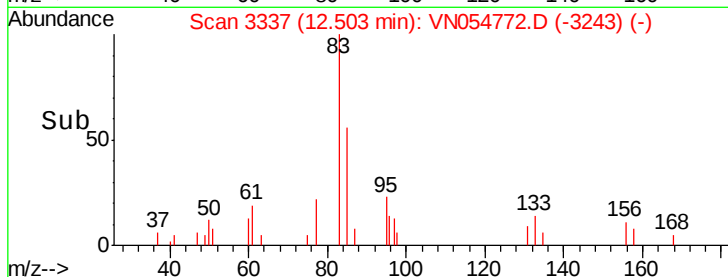
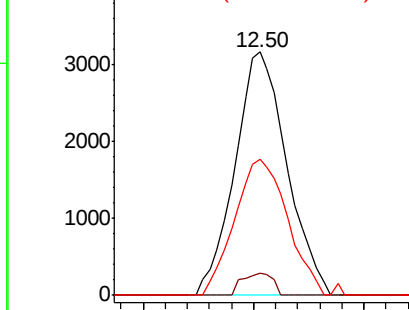
Tot Ion	83	Resp	5176
Ion Ratio	100	Lower	Upper
83	100		
131	5.4	5.8	17.4#
85	56.8	32.2	96.6

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 3:59:14 PM

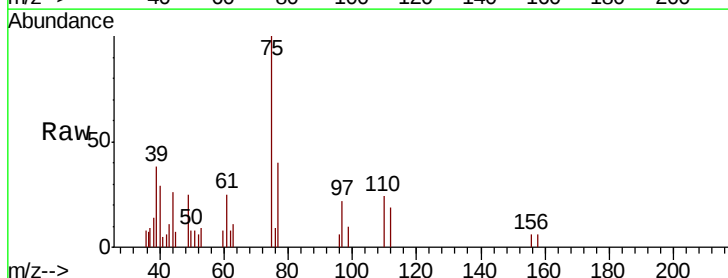


Abundance Ion 82.90 (82.60 to 83.60): VNC
 Ion 130.80 (130.50 to 131.50): VNC
 Ion 84.90 (84.60 to 85.60): VNC

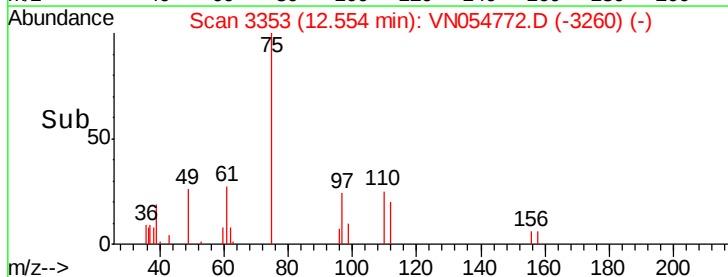
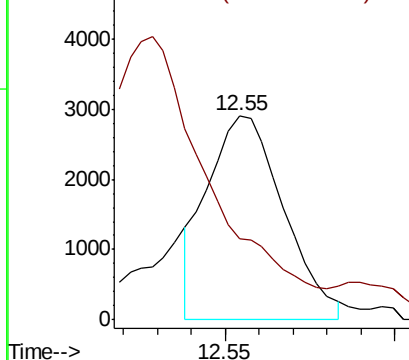


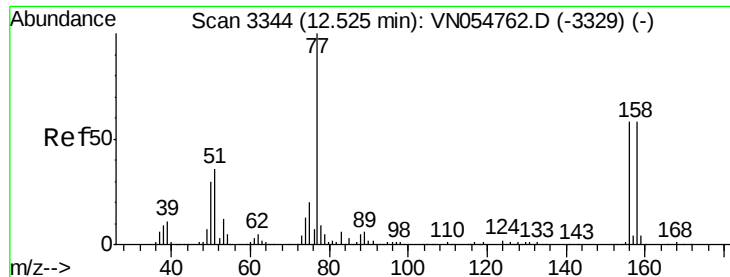
#76
 1,2,3-Trichloropropane
 Concen: 1.283 ug/l m
 RT: 12.55 min Scan# 3353
 Delta R.T. 0.00 min
 Lab File: VN054772.D
 Acq: 29 Mar 2019 16:13

Tgt Ion	75	Resp	4506
Ion Ratio	100	Lower	Upper
75	100		
77	0.0	0.0	0.0



Abundance Ion 74.90 (74.60 to 75.60): VNC
 Ion 77.00 (76.70 to 77.70): VNC





#77

Bromobenzene

Concen: 1.054 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN054772.D

Acq: 29 Mar 2019 16:13

Instrument :

MSVOA_N

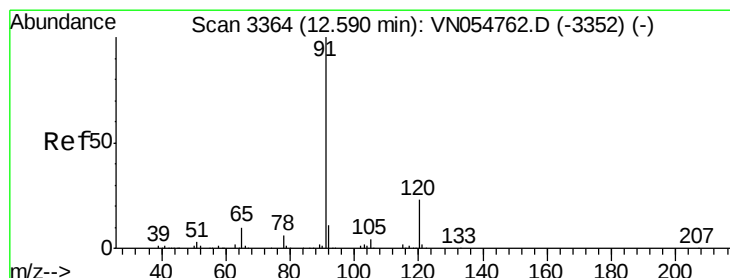
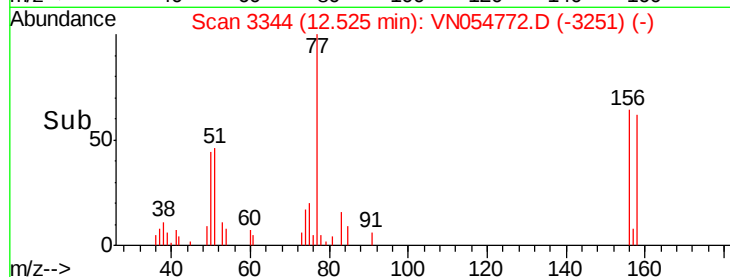
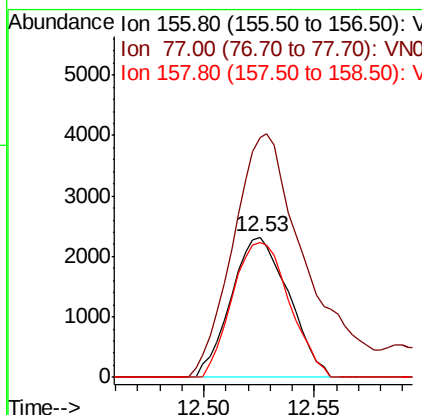
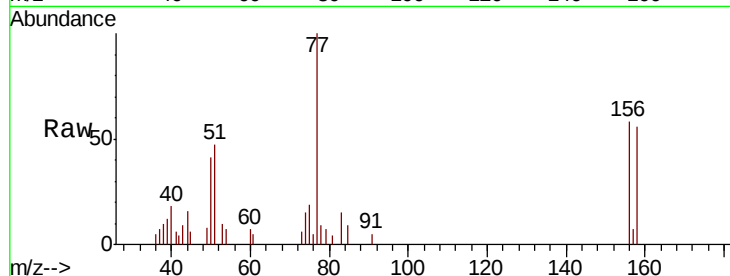
ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

Tot Ion:	156	Resp:	4204
Ion	Ratio	Lower	Upper
156	100		
77	220.0	81.5	244.4
158	95.4	49.0	147.2

Manual Integrations
APPROVED

MMDadoda
4/1/2019 3:59:14 PM



#78

n-propylbenzene

Concen: 1.036 ug/l

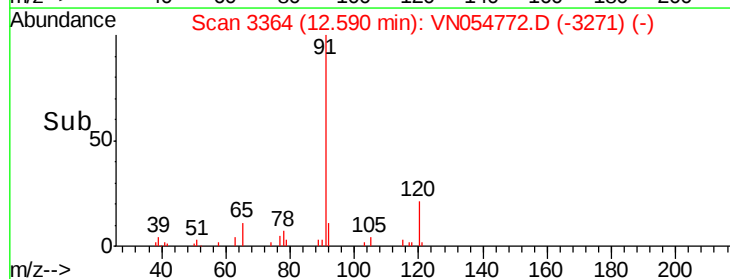
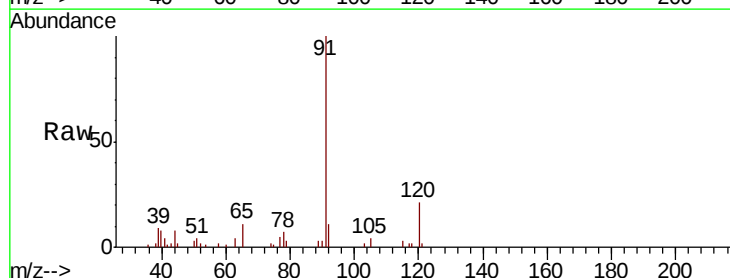
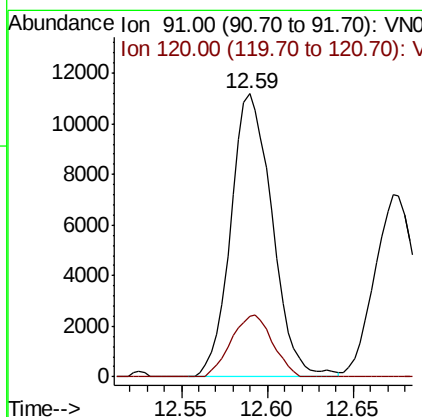
RT: 12.59 min Scan# 3364

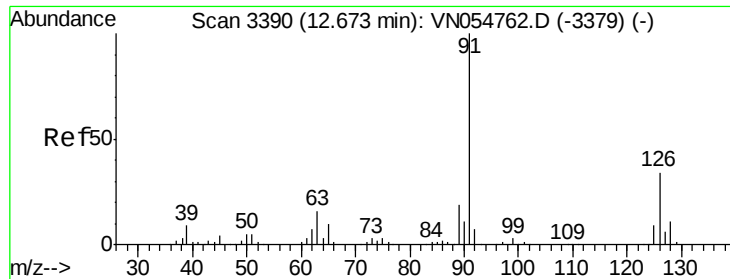
Delta R.T. -0.00 min

Lab File: VN054772.D

Acq: 29 Mar 2019 16:13

Tgt Ion:	91	Resp:	18811
Ion	Ratio	Lower	Upper
91	100		
120	21.6	12.3	36.9





#79

2-Chlorotoluene

Concen: 1.103 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN054772.D

Acq: 29 Mar 2019 16:13

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

Tot Ion: 91 Resp: 12393

Ion Ratio Lower Upper

91 100

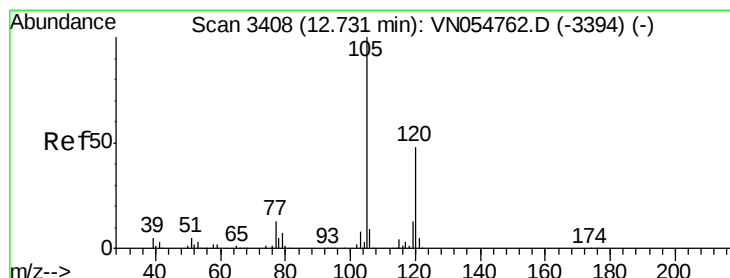
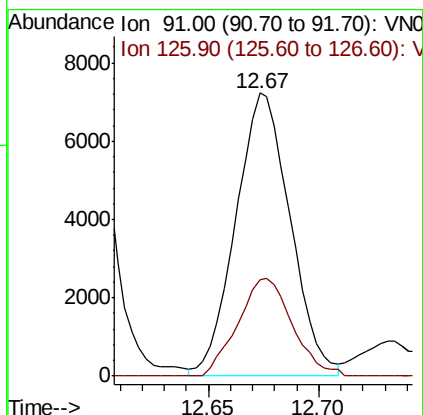
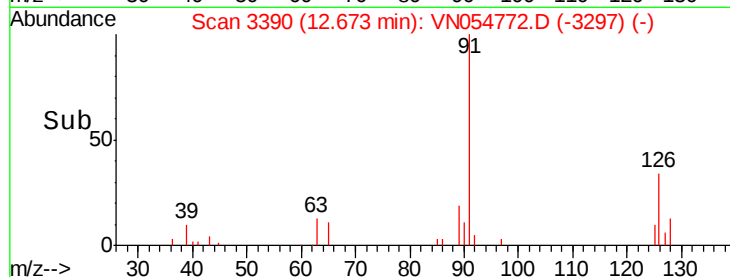
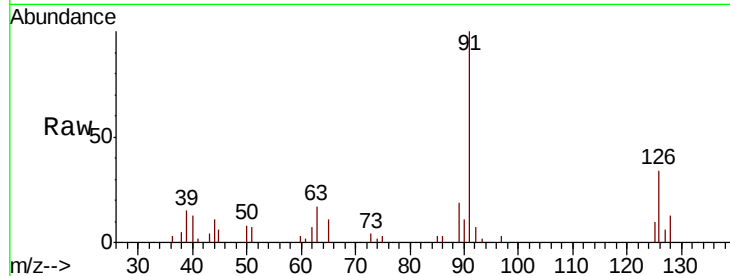
126 34.4 18.7 56.1

Manual Integrations

APPROVED

MMDadoda

4/1/2019 3:59:14 PM



#80

1,3,5-Trimethylbenzene

Concen: 1.023 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN054772.D

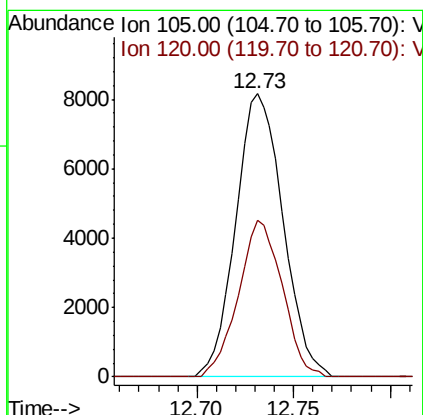
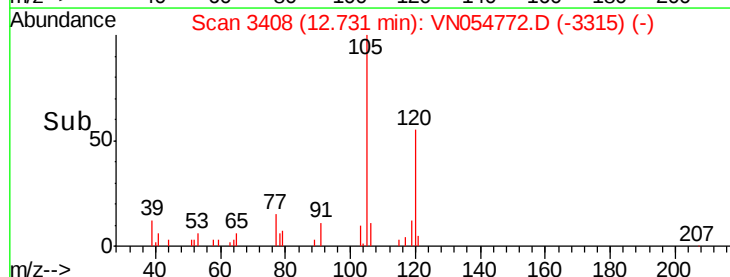
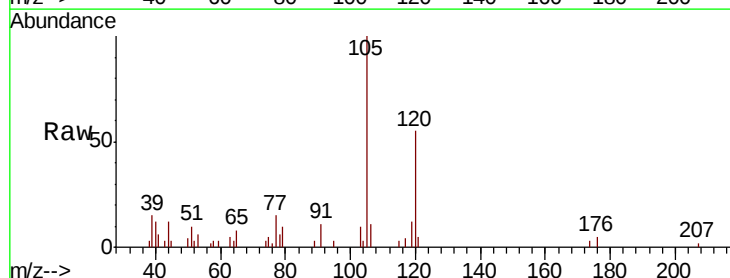
Acq: 29 Mar 2019 16:13

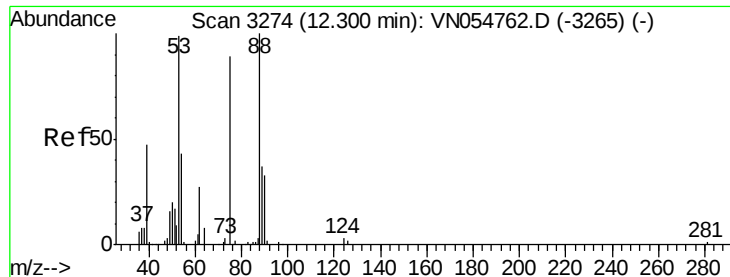
Tgt Ion: 105 Resp: 13874

Ion Ratio Lower Upper

105 100

120 51.3 25.0 75.0





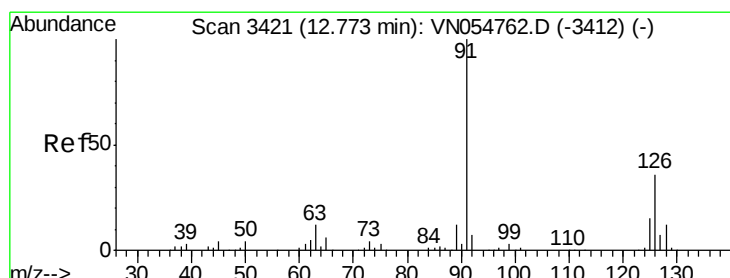
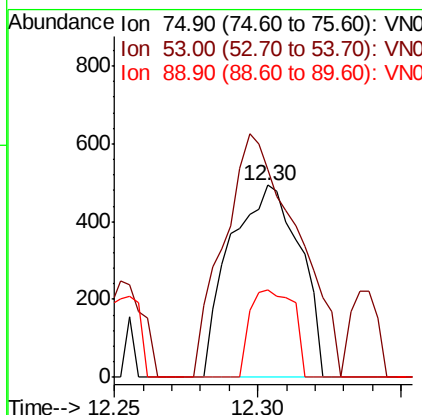
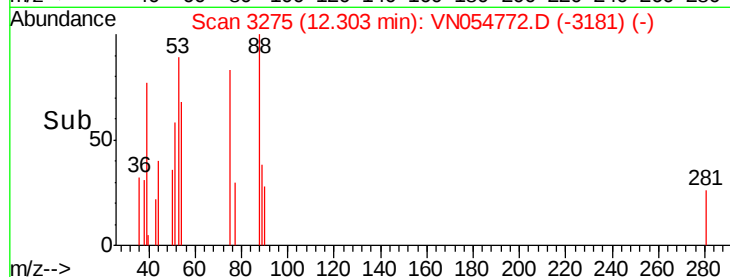
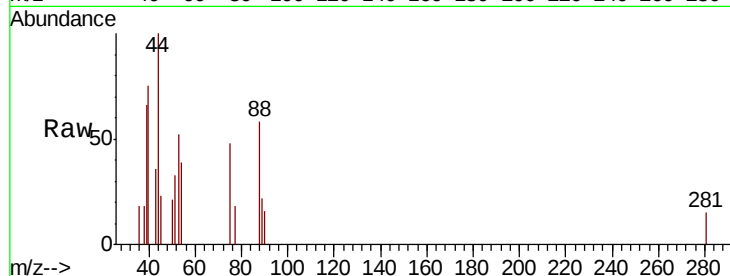
#81
trans-1,4-Dichloro-2-butene
Concen: 0.924 ug/l m
RT: 12.30 min Scan# 3275
Delta R.T. 0.00 min
Lab File: VN054772.D
Acq: 29 Mar 2019 16:13

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT1-2019

Tot Ion	Ratio	Lower	Upper
75	100		
53	0.0	76.2	114.2#
89	0.0	39.2	58.8#

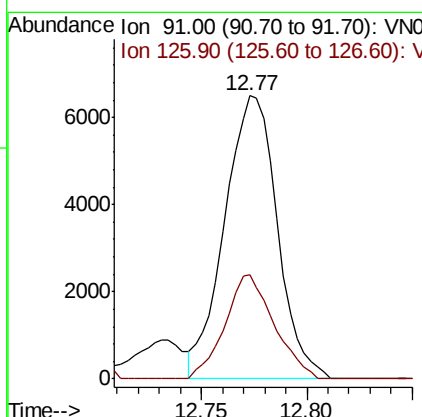
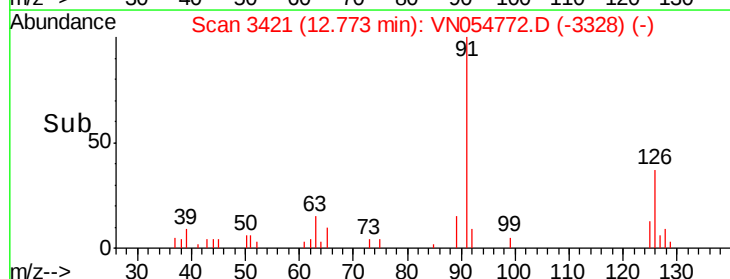
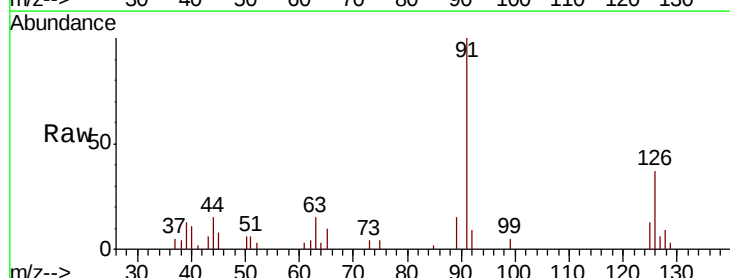
Manual Integrations
APPROVED

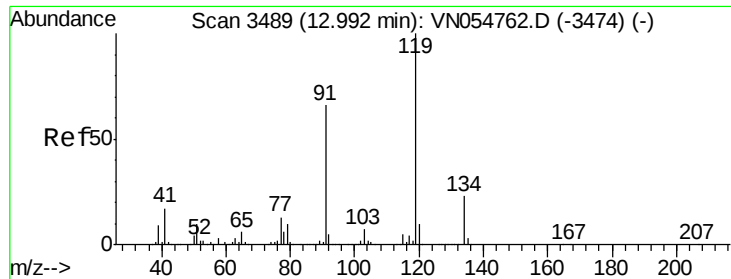
MMDadoda
4/1/2019 3:59:14 PM



#82
4-Chlorotoluene
Concen: 1.032 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. -0.00 min
Lab File: VN054772.D
Acq: 29 Mar 2019 16:13

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.2	18.1	54.1





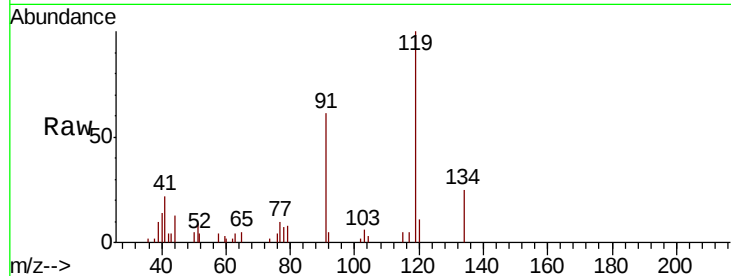
#83
 tert-Butylbenzene
 Concen: Below Cal
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN054772.D
 Acq: 29 Mar 2019 16:13

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT1-2019

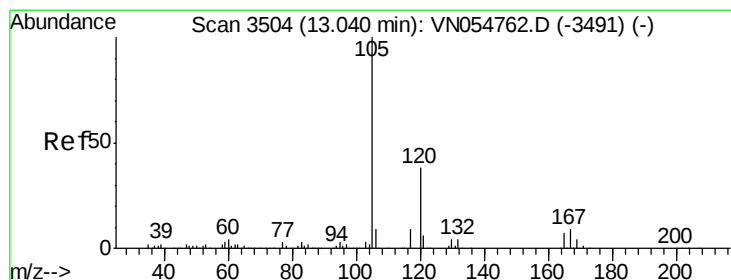
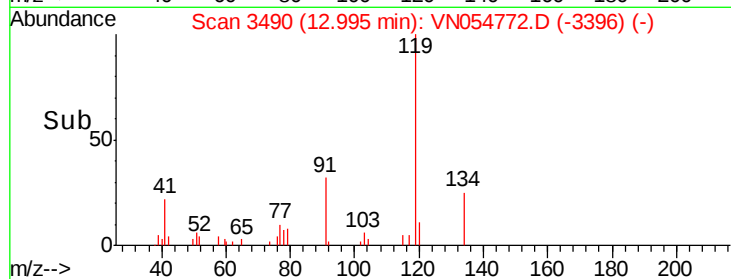
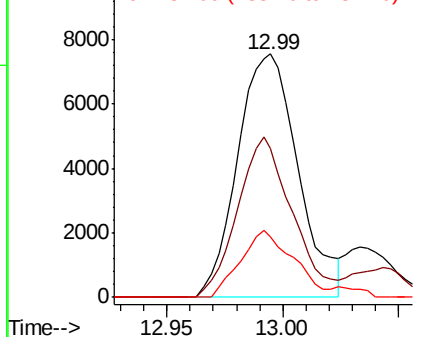
Tot Ion	Ratio	Lower	Upper
119	100		
91	59.6	30.9	92.8
134	24.1	13.2	39.6

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 3:59:14 PM

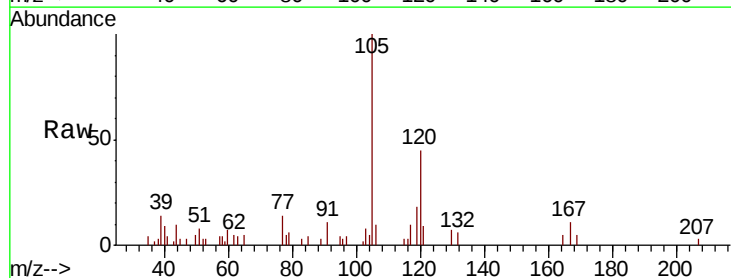


Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 91.00 (90.70 to 91.70): V
 Ion 134.00 (133.70 to 134.70): V

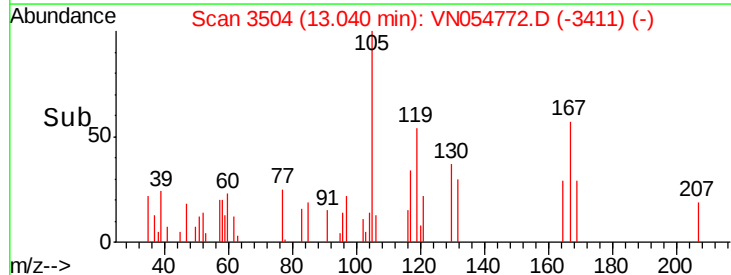
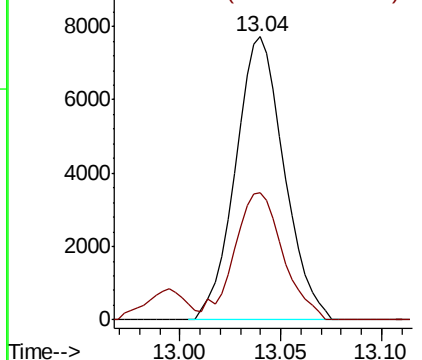


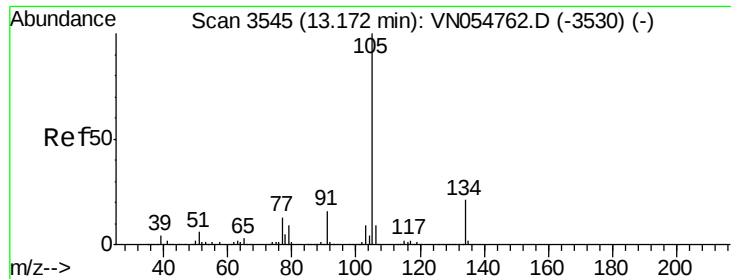
#84
 1,2,4-Trimethylbenzene
 Concen: 1.009 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.00 min
 Lab File: VN054772.D
 Acq: 29 Mar 2019 16:13

Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.8	23.4	70.3



Abundance Ion 105.00 (104.70 to 105.70): V
 Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 1.047 ug/l

RT: 13.17 min Scan# 3546

Delta R.T. 0.00 min

Lab File: VN054772.D

Acq: 29 Mar 2019 16:13

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

Tot Ion:105 Resp: 15427

Ion Ratio Lower Upper

105 100

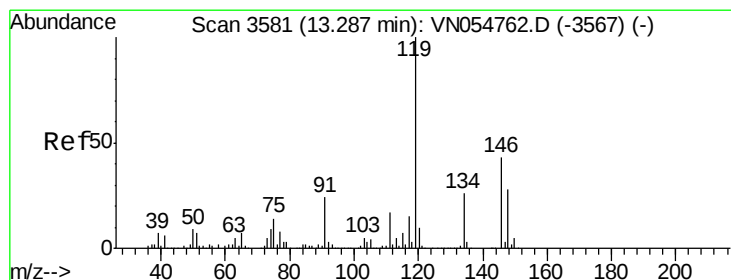
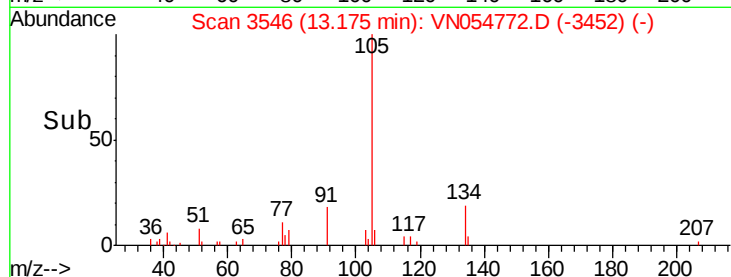
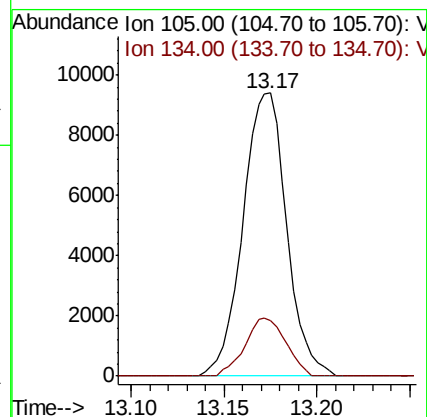
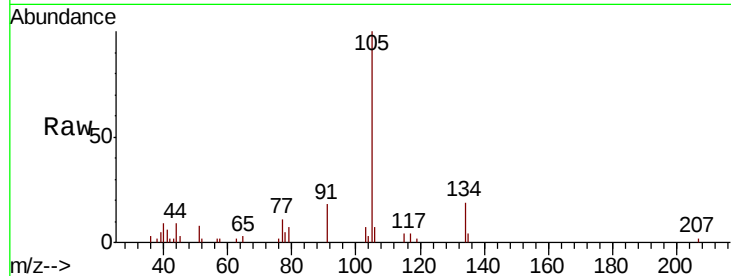
134 19.1 10.7 32.1

Manual Integrations

APPROVED

MMDadoda

4/1/2019 3:59:14 PM



#86

p-Isopropyltoluene

Concen: 1.041 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN054772.D

Acq: 29 Mar 2019 16:13

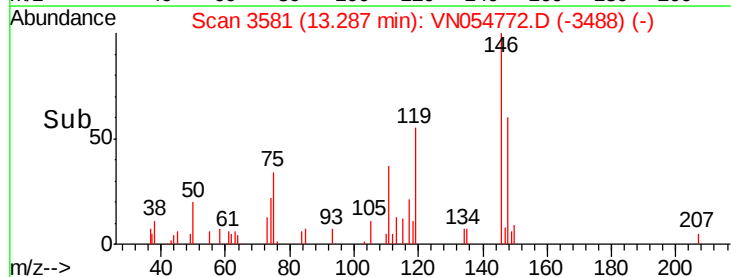
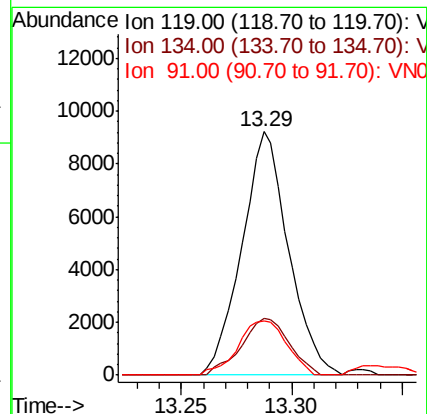
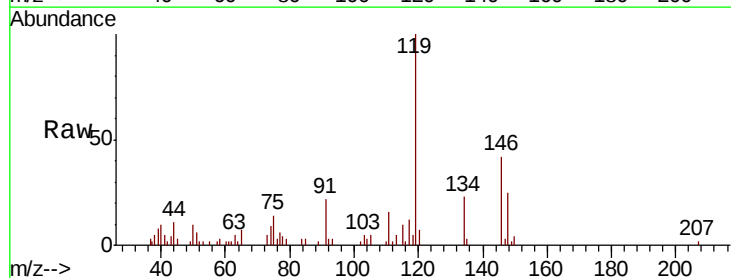
Tgt Ion:119 Resp: 13529

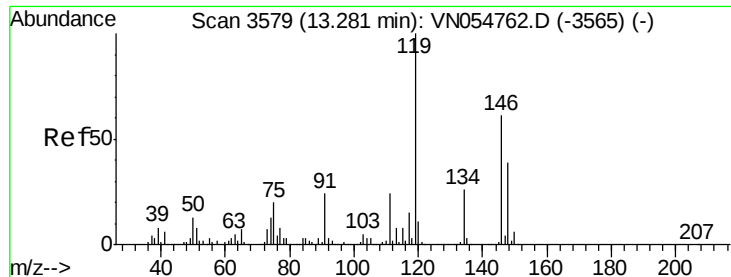
Ion Ratio Lower Upper

119 100

134 24.0 13.6 40.8

91 23.3 11.1 33.3





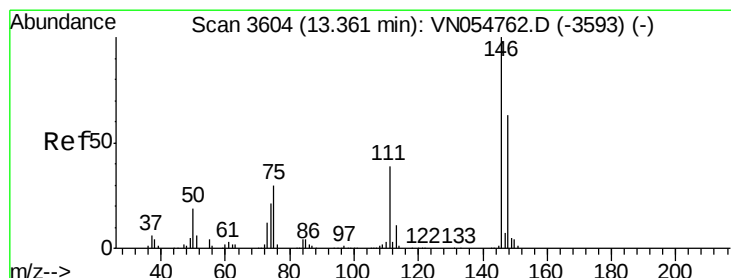
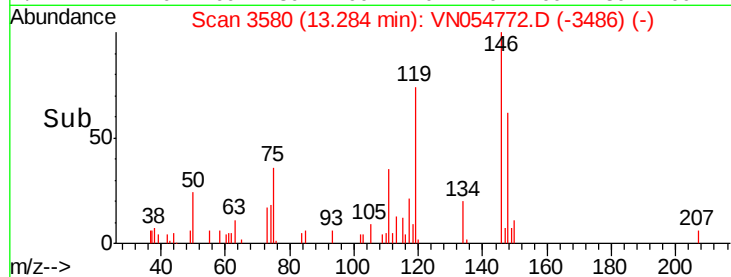
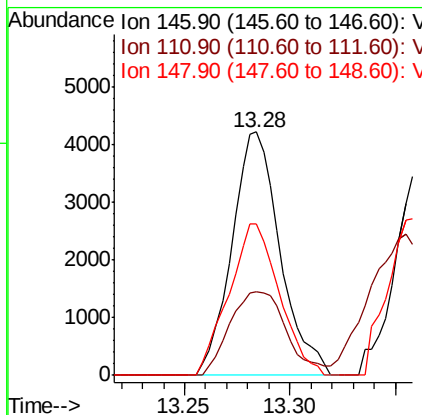
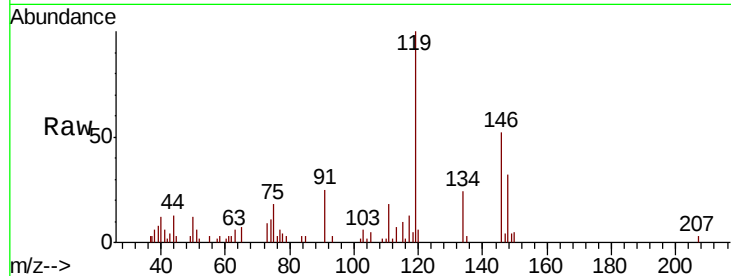
#87
 1,3-Dichlorobenzene
 Concen: 1.002 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN054772.D
 Acq: 29 Mar 2019 16:13

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT1-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.4	18.8	56.3
148	65.2	32.2	96.6

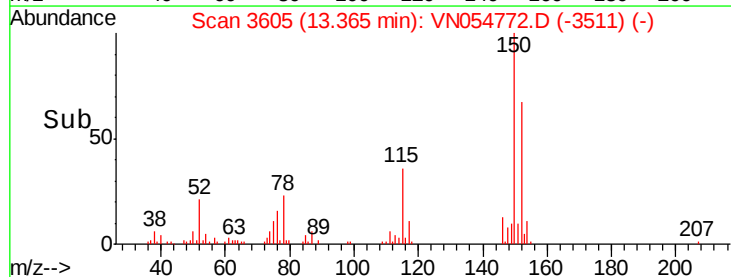
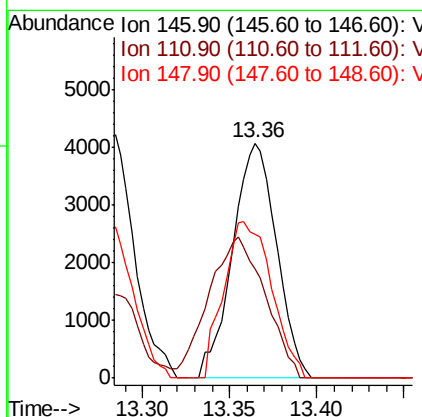
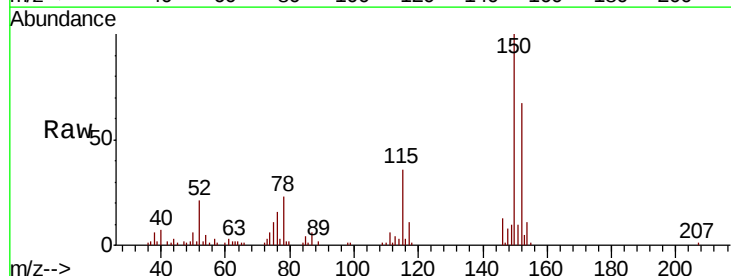
Manual Integrations
 APPROVED

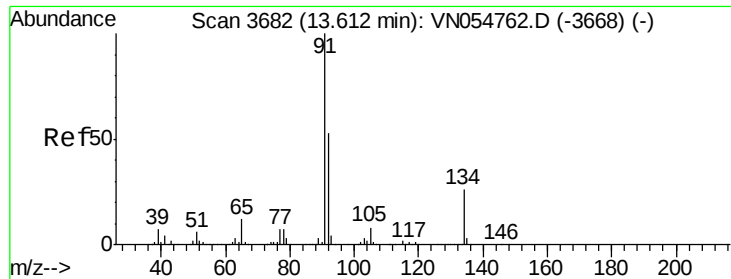
MMDadoda
 4/1/2019 3:59:14 PM



#88
 1,4-Dichlorobenzene
 Concen: 1.090 ug/l m
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN054772.D
 Acq: 29 Mar 2019 16:13

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.9	18.1	54.1
148	61.1	32.0	96.0





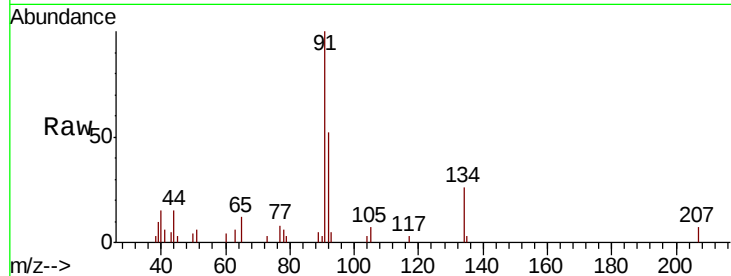
#89
n-Butylbenzene
Concen: 0.852 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN054772.D
Acq: 29 Mar 2019 16:13

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT1-2019

Tot Ion	Ratio	Lower	Upper
91	100		
92	54.5	26.2	78.6
134	28.4	14.3	42.9

Manual Integrations
APPROVED

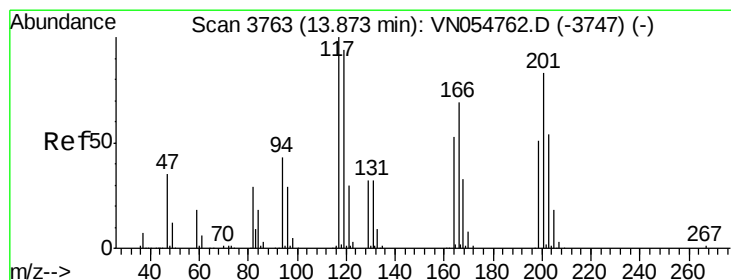
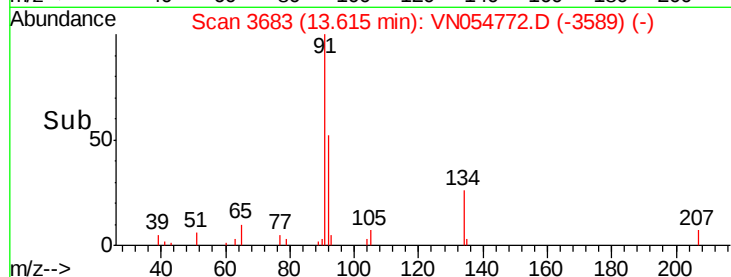
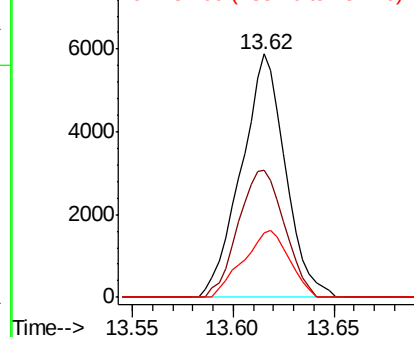
MMDadoda
4/1/2019 3:59:14 PM



Abundance Ion 91.00 (90.70 to 91.70): VN054772.D (-3683) (-)

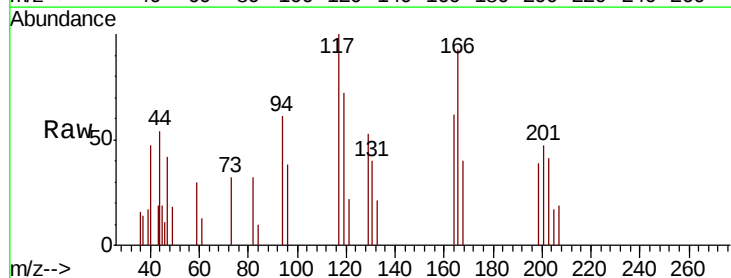
Ion 92.00 (91.70 to 92.70): VN054772.D (-3683) (-)

Ion 134.00 (133.70 to 134.70): VN054772.D (-3683) (-)



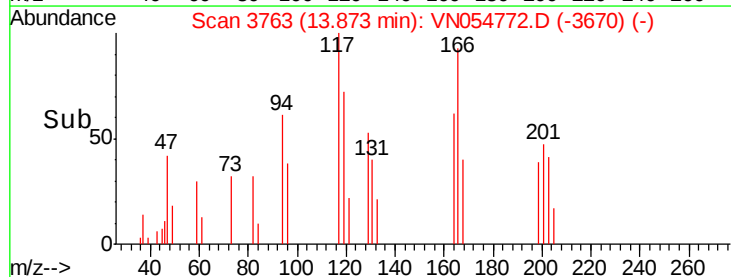
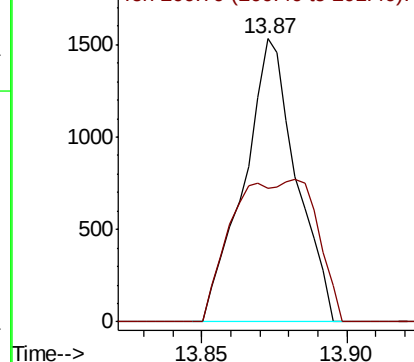
#90
Hexachloroethane
Concen: 0.872 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. -0.00 min
Lab File: VN054772.D
Acq: 29 Mar 2019 16:13

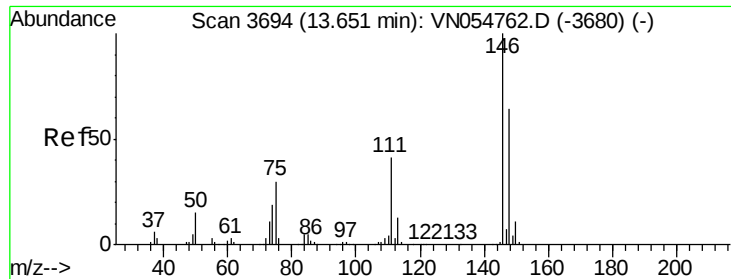
Tgt Ion	Ratio	Lower	Upper
117	100		
201	39.5	48.1	144.4#



Abundance Ion 116.80 (116.50 to 117.50): VN054772.D (-3763) (-)

Ion 200.70 (200.40 to 201.40): VN054772.D (-3763) (-)





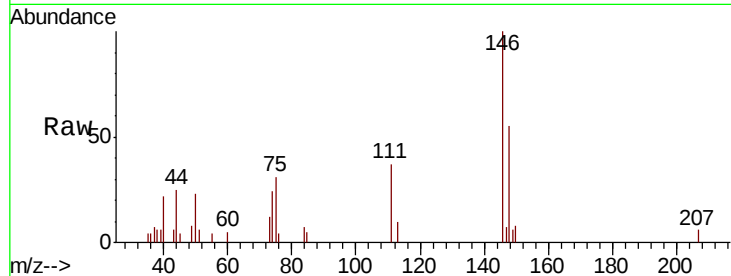
#91
 1,2-Dichlorobenzene
 Concen: 1.058 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. -0.00 min
 Lab File: VN054772.D
 Acq: 29 Mar 2019 16:13

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT1-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.0	19.1	57.3
148	61.4	32.4	97.0

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 3:59:14 PM

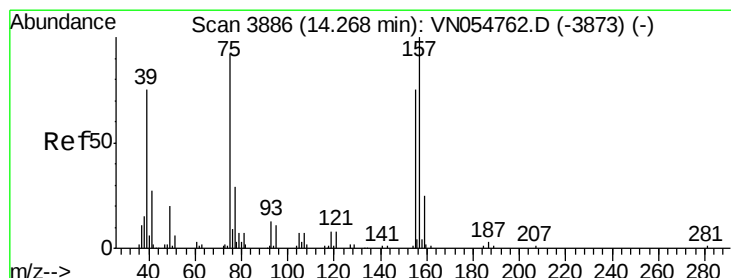
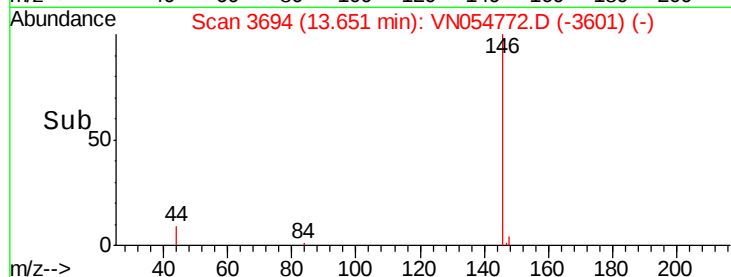
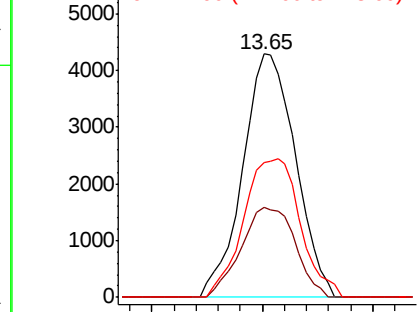


Abundance

Ion 145.90 (145.60 to 146.60): V

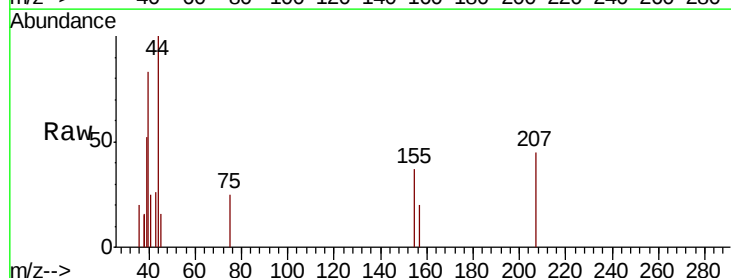
Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.513 ug/l
 RT: 14.27 min Scan# 3888
 Delta R.T. 0.01 min
 Lab File: VN054772.D
 Acq: 29 Mar 2019 16:13

Tgt Ion	Ratio	Lower	Upper
75	100		
155	193.1	50.1	150.3#
157	125.5	63.1	189.3

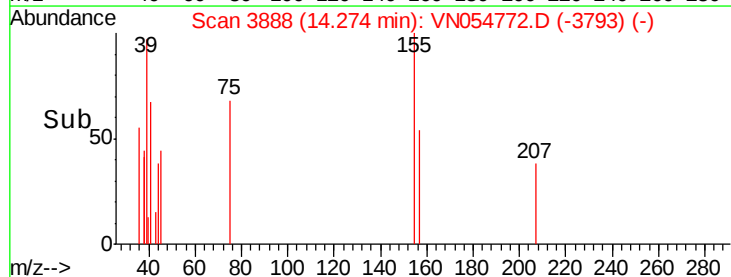
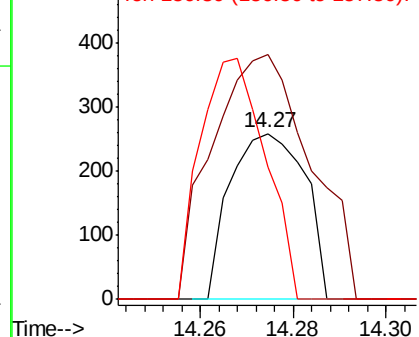


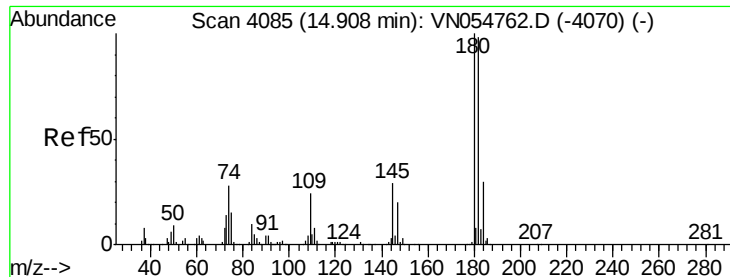
Abundance

Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#93

1,2,4-Trichlorobenzene

Concen: 0.802 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN054772.D

Acq: 29 Mar 2019 16:13

Instrument :

MSVOA_N

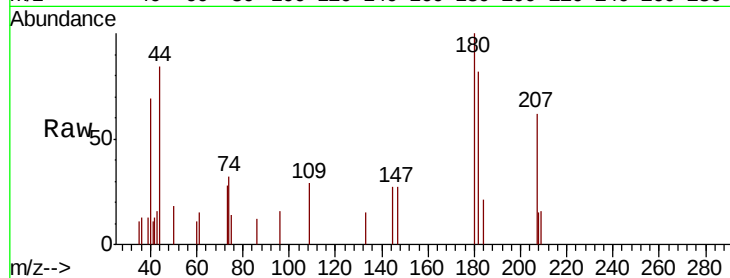
ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

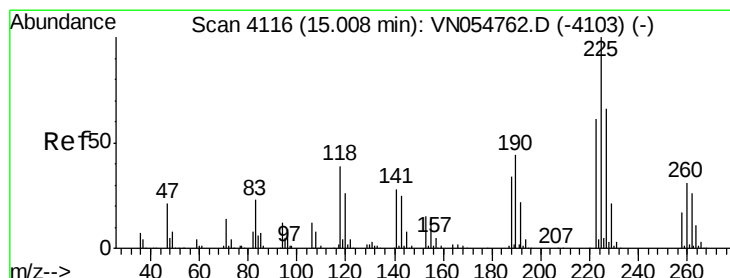
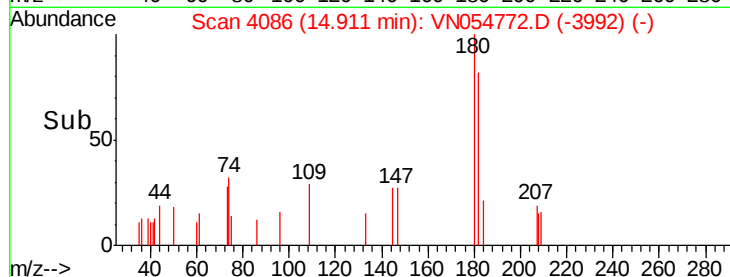
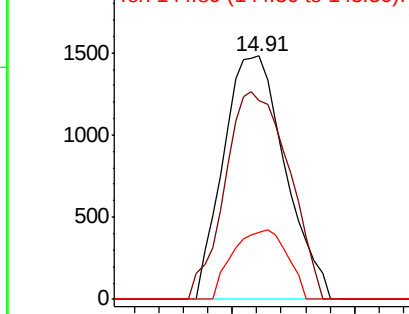
Tot Ion:	180	Resp:	2604
Ion Ratio	Lower	Upper	
180	100		
182	88.4	48.0	144.2
145	25.1	14.2	42.8

Manual Integrations
APPROVED

MMDadoda
4/1/2019 3:59:14 PM



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



#94

Hexachlorobutadiene

Concen: Below Cal

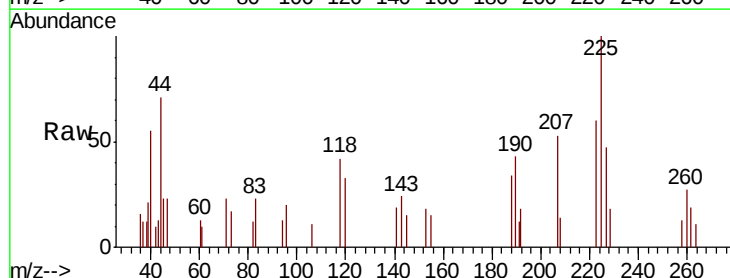
RT: 15.00 min Scan# 4115

Delta R.T. -0.00 min

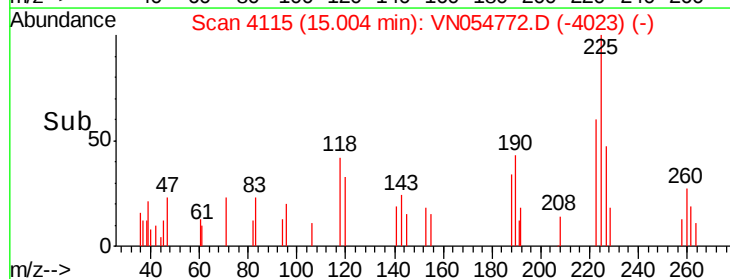
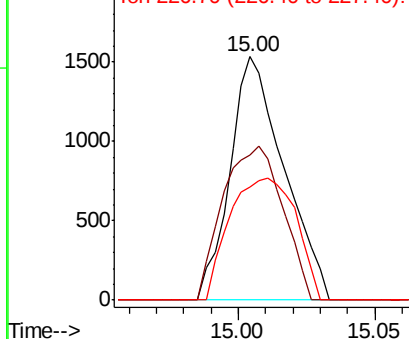
Lab File: VN054772.D

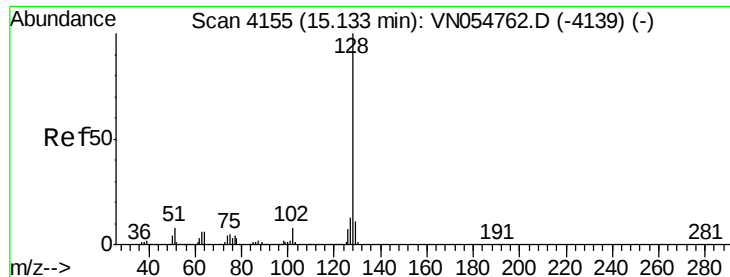
Acq: 29 Mar 2019 16:13

Tgt Ion:	225	Resp:	2107
Ion Ratio	Lower	Upper	
225	100		
223	70.1	31.1	93.5
227	61.9	31.9	95.9



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





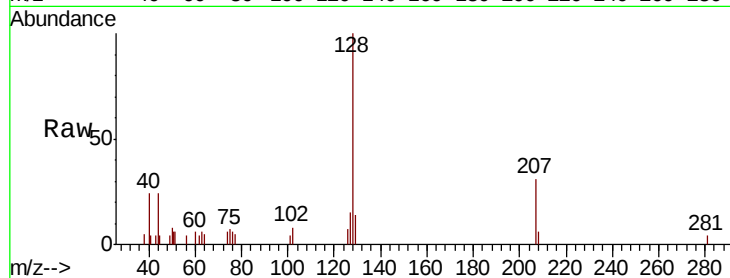
#95
Naphthalene
Concen: 0.944 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. -0.00 min
Lab File: VN054772.D
Acq: 29 Mar 2019 16:13

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT1-2019

Tot Ion	Ratio	Lower	Upper
128	100		
127	11.2	10.1	15.1
129	8.4	8.7	13.1#

Manual Integrations
APPROVED

MMDadoda
4/1/2019 3:59:14 PM

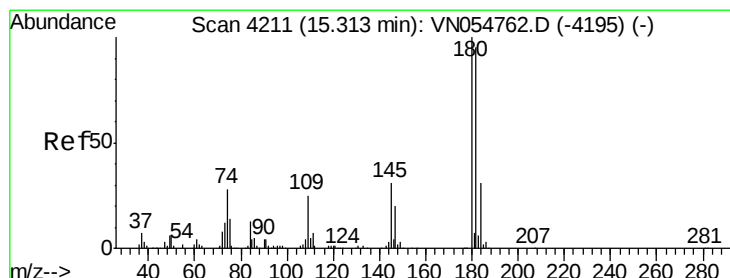
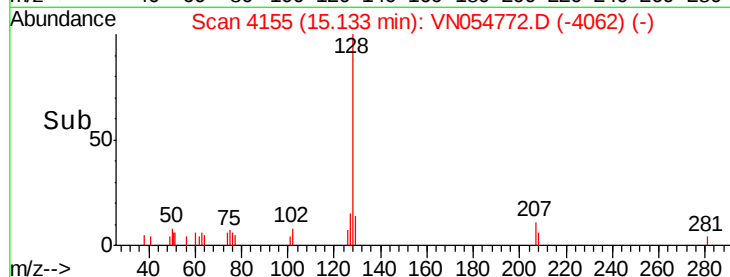
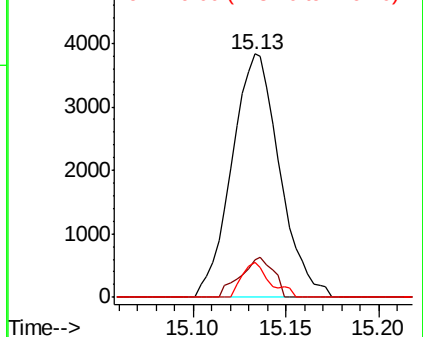


Abundance

Ion 128.00 (127.70 to 128.70): V

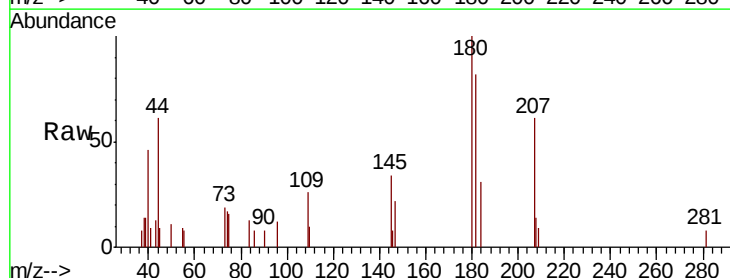
Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 1.014 ug/l
RT: 15.32 min Scan# 4212
Delta R.T. 0.00 min
Lab File: VN054772.D
Acq: 29 Mar 2019 16:13

Tgt Ion	Ratio	Lower	Upper
180	100		
182	81.8	47.5	142.6
145	23.9	14.8	44.3



Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

