

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041119\
 Data File : VN054983.D
 Acq On : 11 Apr 2019 18:04
 Operator : JC/SP
 Sample : K2241-07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

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

Manual Integrations
 APPROVED

MMDadoda
 4/12/2019 1:41:36 PM

Quant Time: Apr 12 08:21:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N041119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 12 07:55:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	75089	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	400788	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	334565	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	172525	30.14	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.47%
60) 4-Bromofluorobenzene	12.40	95	134700	25.86	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	86.20%
63) Toluene-d8	10.09	98	499603	31.41	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	104.70%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	11414	2.585 ug/l	98
3) Chloromethane	2.06	50	17254	2.892 ug/l	97
4) Vinyl Chloride	2.19	62	14233	2.759 ug/l	94
5) Bromomethane	2.57	94	9332	3.127 ug/l	96
6) Chloroethane	2.71	64	7942	2.749 ug/l	95
7) Trichlorofluoromethane	3.02	101	17769	2.695 ug/l	98
8) Diethyl Ether	3.41	74	5937	2.805 ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.75	101	10236	2.840 ug/l	65
10) 1,1-Dichloroethene	3.73	96	8903	2.672 ug/l	95
11) Methyl Iodide	3.94	142	11151	2.212 ug/l	96
12) Methyl Acetate	4.34	43	12322m	3.007 ug/l	
13) Acrolein	3.61	56	5730	15.954 ug/l	95
14) Acrylonitrile	5.00	53	20878	12.435 ug/l	97
15) Acetone	3.82	58	4530	10.903 ug/l	90
16) Carbon Disulfide	4.04	76	28928	2.588 ug/l	97
17) Allyl chloride	4.32	41	19204	2.341 ug/l	97
18) Methylene Chloride	4.55	84	14404	2.925 ug/l	88
19) trans-1,2-Dichloroethene	5.04	96	11843	2.731 ug/l	94
20) Diisopropyl ether	5.96	45	40806	2.455 ug/l	93
21) 1,1-Dichloroethane	5.85	63	23215	2.615 ug/l	96
22) cis-1,2-Dichloroethene	6.83	96	13525	2.683 ug/l	96
23) tert-Butyl Alcohol	4.82	59	3502m	13.081 ug/l	
24) Methyl tert-Butyl Ether	5.06	73	29574	2.643 ug/l #	90
25) Chloroform	7.37	83	22438	2.638 ug/l	88
26) Cyclohexane	7.65	56	20347	2.470 ug/l #	98
29) 1,1-Dichloropropene	7.79	75	15891	2.546 ug/l	97
30) 2-Butanone	6.85	43	25191	12.158 ug/l #	82
31) 2,2-Dichloropropane	6.83	77	13926m	2.424 ug/l	
32) 1,1,1-Trichloroethane	7.57	97	16525	2.505 ug/l #	82
33) Carbon Tetrachloride	7.77	117	14313	2.506 ug/l	97
34) Benzene	8.04	78	50070	2.707 ug/l #	17
35) Methacrylonitrile	7.18	41	4965	2.033 ug/l	97
36) 1,2-Dichloroethane	8.13	62	18017	2.850 ug/l	96
37) Trichloroethene	8.84	130	13663	2.897 ug/l	99
38) Methylcyclohexane	9.08	83	18512	2.557 ug/l	98
39) 1,2-Dichloropropane	9.12	63	12406	2.429 ug/l	90
40) Dibromomethane	9.21	93	8321	2.882 ug/l	96

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041119\
 Data File : VN054983.D
 Acq On : 11 Apr 2019 18:04
 Operator : JC/SP
 Sample : K2241-07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

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

Manual Integrations
 APPROVED

MMDadoda
 4/12/2019 1:41:36 PM

Quant Time: Apr 12 08:21:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N041119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 12 07:55:25 2019
 Response via : Initial Calibration

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

41) Bromodichloromethane	9.40	83	15162	2.545	ug/l #	99
42) Vinyl Acetate	5.90	43	127957	12.216	ug/l	99
43) Ethyl Acetate	6.95	43	10256	2.430	ug/l #	72
44) Isopropyl Acetate	8.17	43	18799	2.628	ug/l #	84
45) 1,4-Dioxane	9.20	88	1911	48.222	ug/l	92
46) Methyl methacrylate	9.20	41	8847	2.391	ug/l	82
47) n-amyl Acetate	12.07	43	10183	1.933	ug/l	95
48) t-1,3-Dichloropropene	10.38	75	11815	2.159	ug/l	92
49) cis-1,3-Dichloropropene	9.84	75	16030	2.373	ug/l	96
50) 1,1,2-Trichloroethane	10.56	97	10756	2.743	ug/l	93
51) Ethyl methacrylate	10.43	69	11620	2.486	ug/l	97
52) 1,3-Dichloropropane	10.71	76	17524	2.551	ug/l	97
53) Dibromochloromethane	10.90	129	8921	2.209	ug/l	61
54) 1,2-Dibromoethane	11.01	107	9835	2.672	ug/l	94
55) 2-Chloroethyl vinyl ether	9.69	63	19430	9.943	ug/l	97
56) Bromoform	12.12	173	5277	2.079	ug/l #	93
58) 4-Methyl-2-Pentanone	9.99	43	52971	13.729	ug/l	99
59) 2-Hexanone	10.75	43	32208	13.141	ug/l	92
61) Tetrachloroethene	10.63	164	11849	2.721	ug/l	94
62) Toluene	10.15	91	49422	2.681	ug/l	97
64) Chlorobenzene	11.43	112	28075	2.523	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	10652	2.691	ug/l	98
66) Ethyl Benzene	11.51	91	50088	2.535	ug/l	100
67) m/p-Xylenes	11.62	106	36374	4.952	ug/l	93
68) o-Xylene	11.95	106	17600	2.425	ug/l	97
69) Styrene	11.97	104	24187	2.146	ug/l	94
70) Isopropylbenzene	12.25	105	46135	2.377	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	11913	2.684	ug/l	90
72) 1,2,3-Trichloropropane	12.55	75	10426m	2.844	ug/l	
73) Bromobenzene	12.53	156	10523	2.294	ug/l	91
74) n-propylbenzene	12.59	91	48201	2.218	ug/l	99
75) 2-Chlorotoluene	12.67	91	31690	2.418	ug/l	95
76) 1,3,5-Trimethylbenzene	12.73	105	37437	2.386	ug/l	95
77) t-1,4-Dichloro-2-butene	12.30	75	1799	1.947	ug/l	92
78) 4-Chlorotoluene	12.77	91	24949	1.998	ug/l	98
79) tert-butylbenzene	12.99	119	32757	2.413	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	33002	2.141	ug/l	99
81) sec-Butylbenzene	13.17	105	40668	2.242	ug/l	97
82) p-Isopropyltoluene	13.29	119	33435	2.184	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	15253	1.988	ug/l	96
84) 1,4-Dichlorobenzene	13.36	146	12980	1.780	ug/l	92
85) n-Butylbenzene	13.62	91	23086	1.893	ug/l	98
86) Hexachloroethane	13.87	117	5363	2.188	ug/l	97
87) 1,2-Dichlorobenzene	13.65	146	15948	2.122	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	14.26	75	1542	2.614	ug/l #	77
89) 1,2,4-Trichlorobenzene	14.91	180	5009	1.491	ug/l	98
90) Hexachlorobutadiene	15.00	225	6108	2.493	ug/l	96
91) Naphthalene	15.13	128	10818	1.538	ug/l #	91
92) 1,2,3-Trichlorobenzene	15.31	180	5652	1.682	ug/l	92

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041119\
Data File : VN054983.D
Acq On : 11 Apr 2019 18:04
Operator : JC/SP
Sample : K2241-07
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 10 Sample Multiplier: 1

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

Manual Integrations
APPROVED

MMDadoda
4/12/2019 1:41:36 PM

Quant Time: Apr 12 08:21:14 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N041119W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Apr 12 07:55:25 2019
Response via : Initial Calibration

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

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

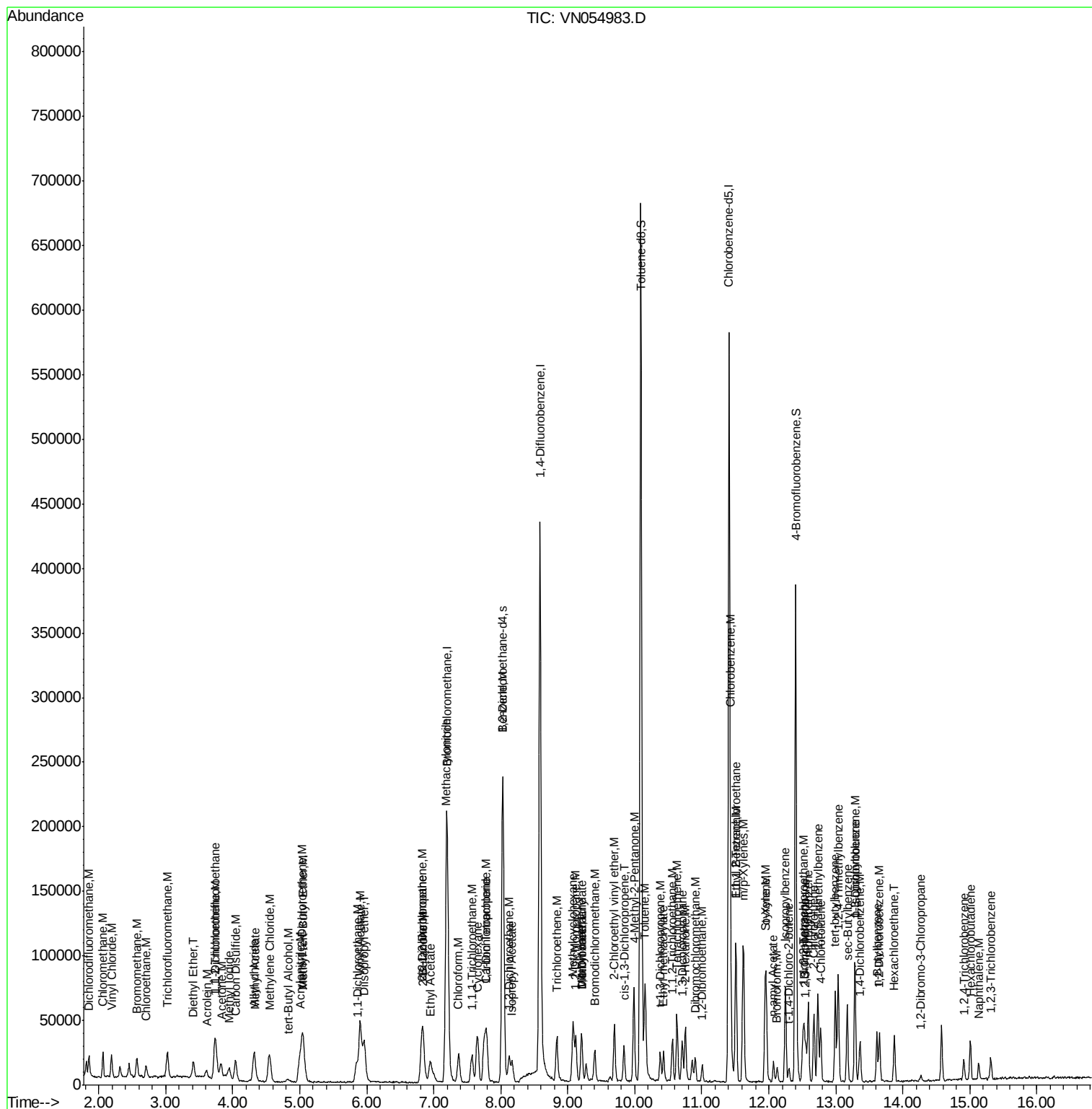
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041119\
Data File : VN054983.D
Acq On : 11 Apr 2019 18:04
Operator : JC/SP
Sample : K2241-07
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 10 Sample Multiplier: 1

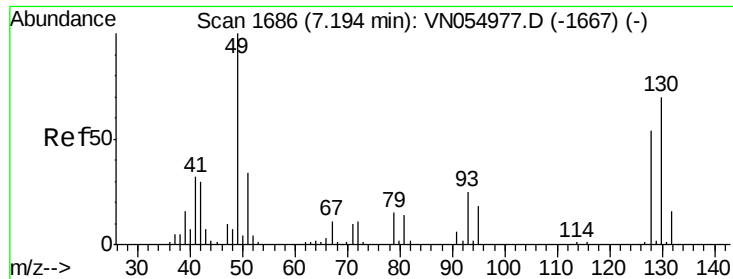
Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT2-2019

Manual Integrations
APPROVED

MMDadoda
4/12/2019 1:41:36 PM

Quant Time: Apr 12 08:21:14 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N041119W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Apr 12 07:55:25 2019
Response via : Initial Calibration





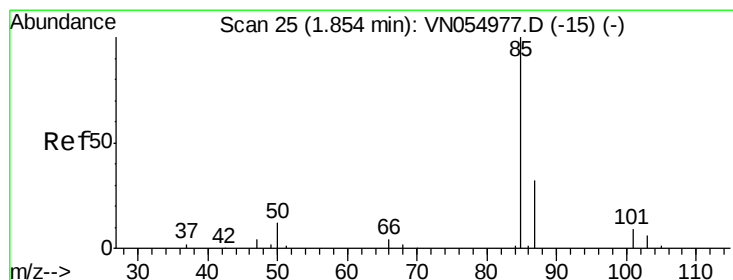
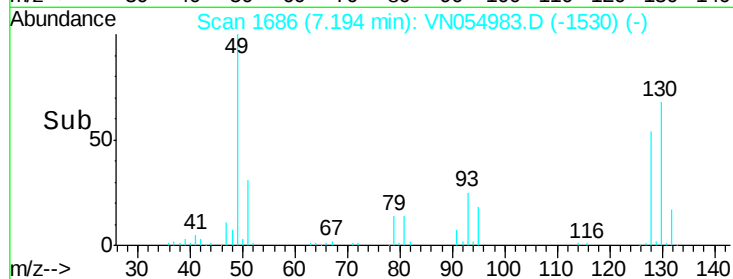
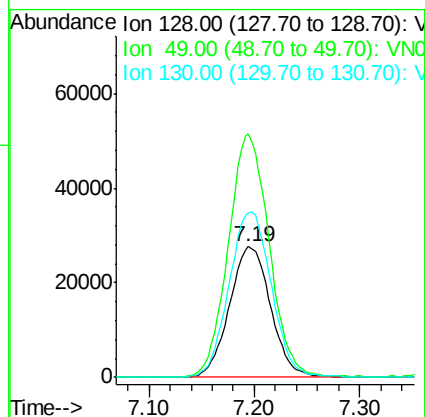
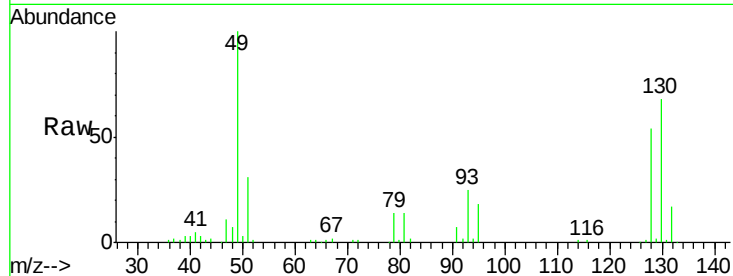
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.19 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VN054983.D
Acq: 11 Apr 2019 18:04

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

Tot Ion	Ratio	Lower	Upper
128	100		
49	184.0	0.0	480.3
130	129.6	0.0	322.2

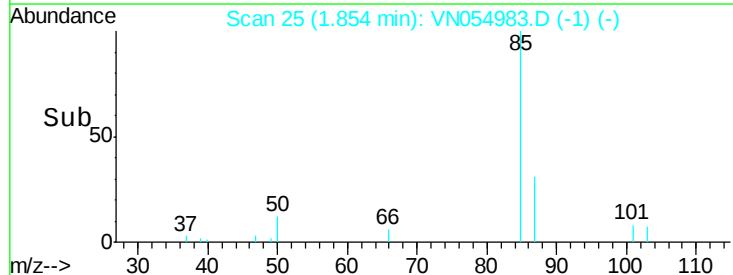
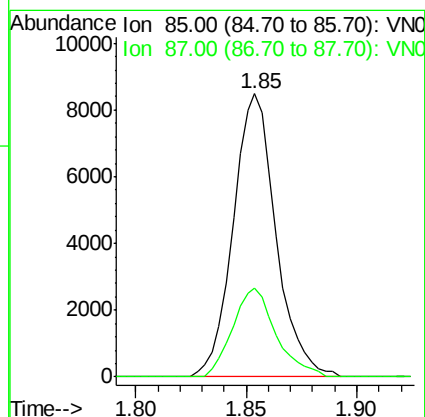
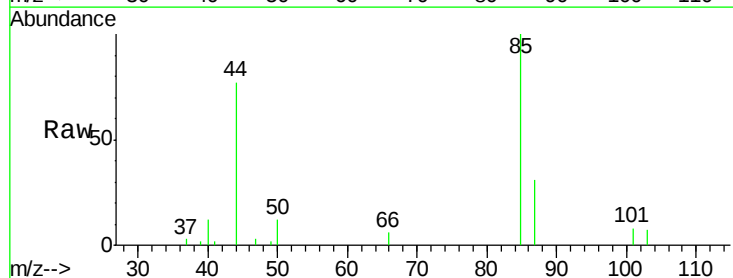
Manual Integrations
APPROVED

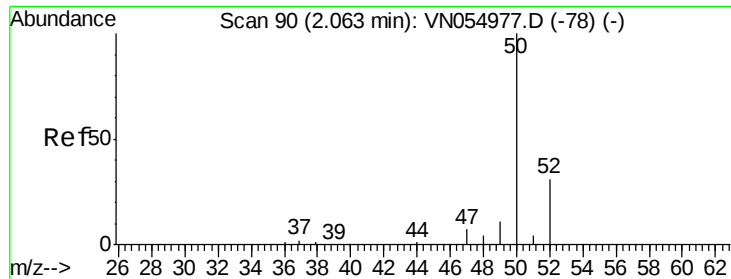
MMDadoda
4/12/2019 1:41:36 PM



#2
Dichlorodifluoromethane
Concen: 2.585 ug/l
RT: 1.85 min Scan# 25
Delta R.T. 0.00 min
Lab File: VN054983.D
Acq: 11 Apr 2019 18:04

Tgt Ion	Ratio	Lower	Upper
85	100		
87	31.3	16.1	48.3





#3

Chloromethane

Concen: 2.892 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN054983.D

Acq: 11 Apr 2019 18:04

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion: 50 Resp: 17254

Ion Ratio Lower Upper

50 100

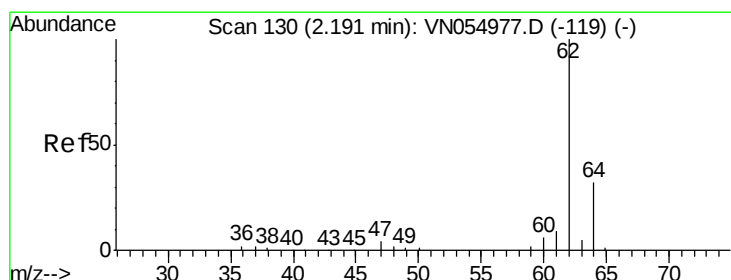
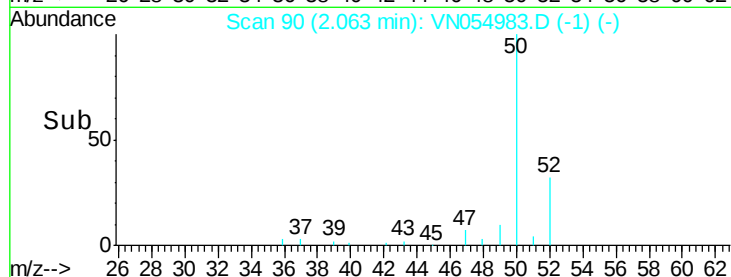
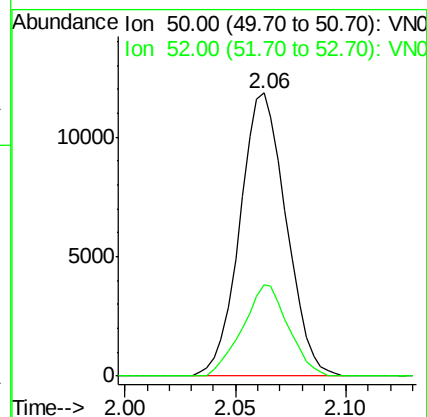
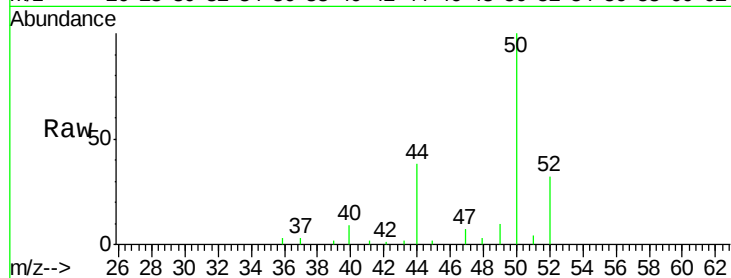
52 32.4 24.5 36.7

Manual Integrations

APPROVED

MMDadoda

4/12/2019 1:41:36 PM



#4

Vinyl Chloride

Concen: 2.759 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN054983.D

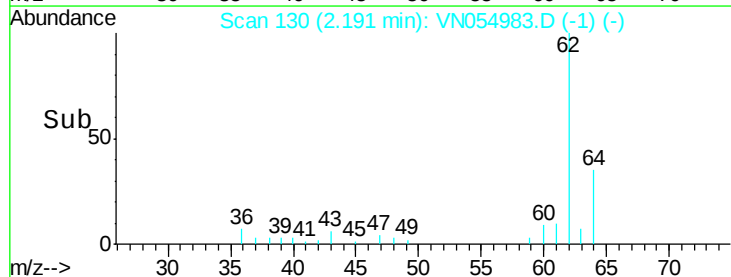
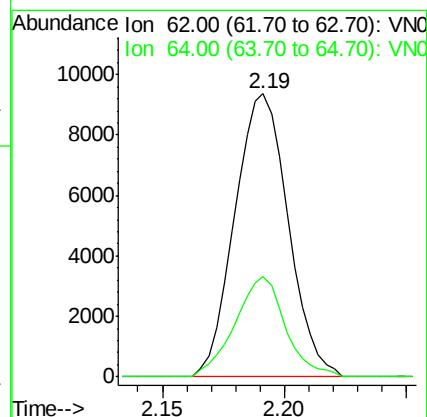
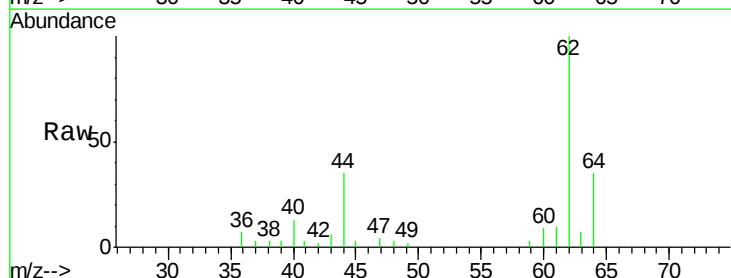
Acq: 11 Apr 2019 18:04

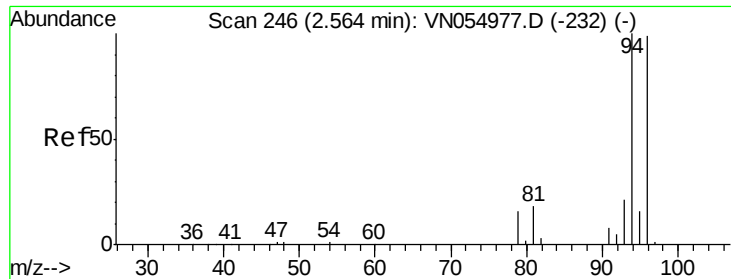
Tgt Ion: 62 Resp: 14233

Ion Ratio Lower Upper

62 100

64 35.4 25.6 38.4





#5

Bromomethane

Concen: 3.127 ug/l

RT: 2.57 min Scan# 248

Delta R.T. 0.01 min

Lab File: VN054983.D

Acq: 11 Apr 2019 18:04

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion: 94 Resp: 9332

Ion Ratio Lower Upper

94 100

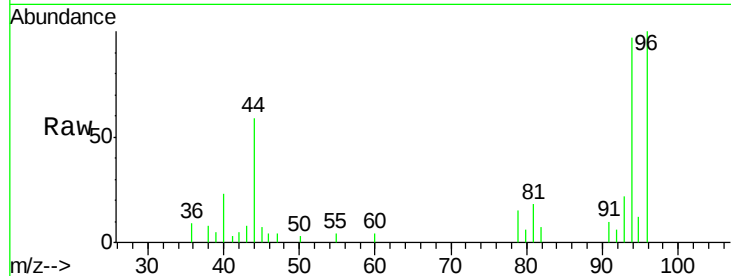
96 103.4 79.1 118.7

Manual Integrations

APPROVED

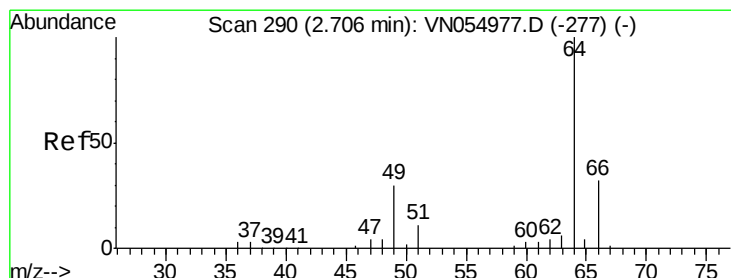
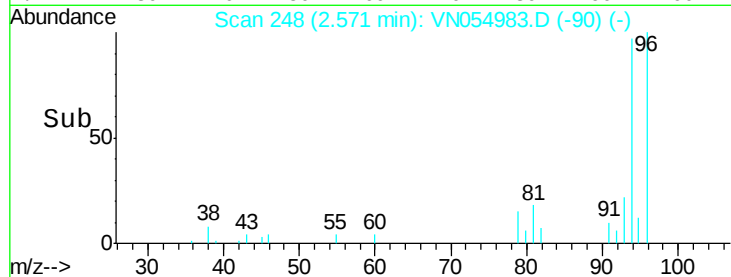
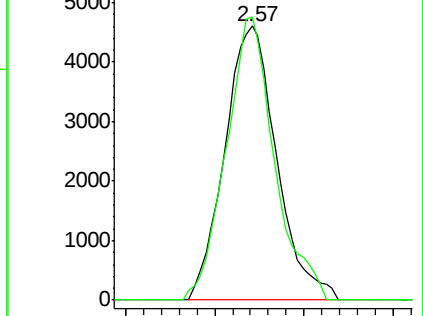
MMDadoda

4/12/2019 1:41:36 PM



Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0



#6

Chloroethane

Concen: 2.749 ug/l

RT: 2.71 min Scan# 290

Delta R.T. 0.00 min

Lab File: VN054983.D

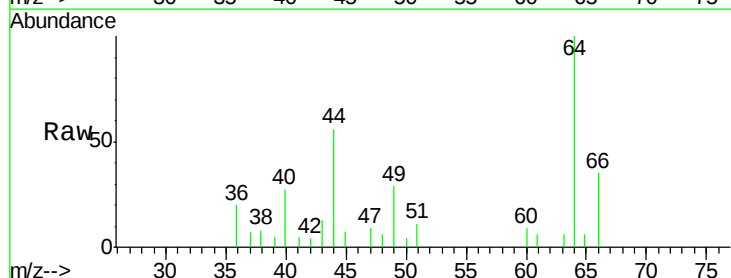
Acq: 11 Apr 2019 18:04

Tgt Ion: 64 Resp: 7942

Ion Ratio Lower Upper

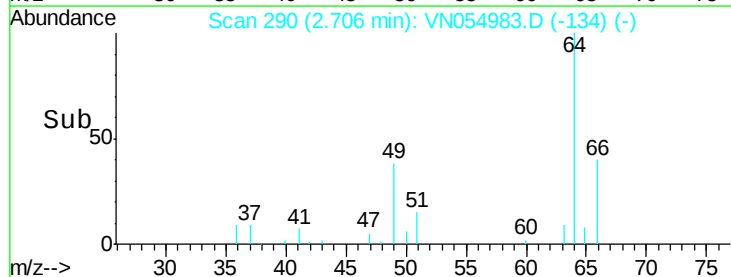
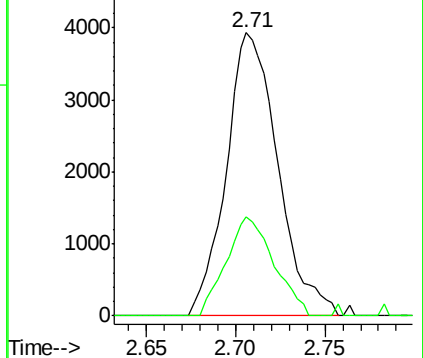
64 100

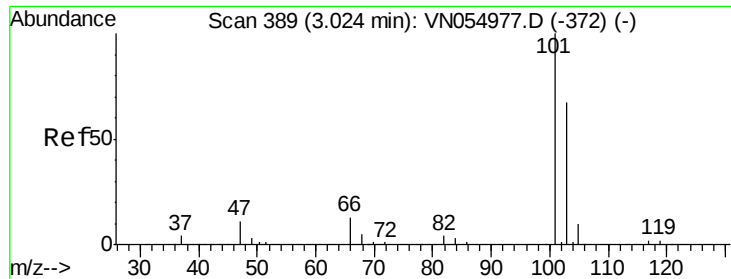
66 34.9 25.7 38.5



Abundance Ion 64.00 (63.70 to 64.70): VN0

Ion 66.00 (65.70 to 66.70): VN0





#7

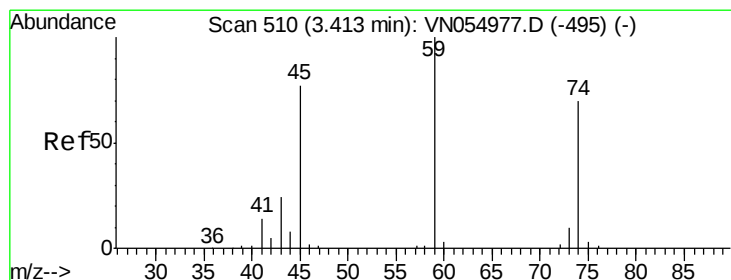
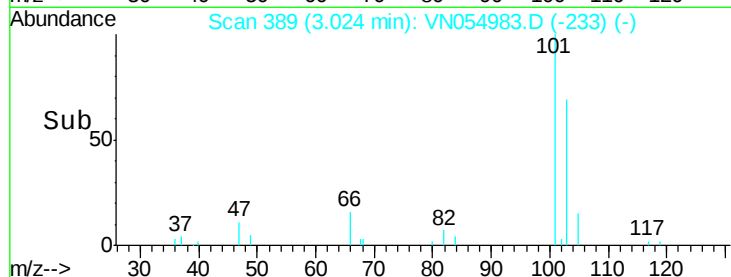
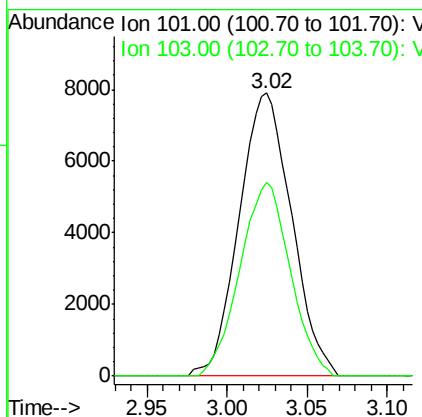
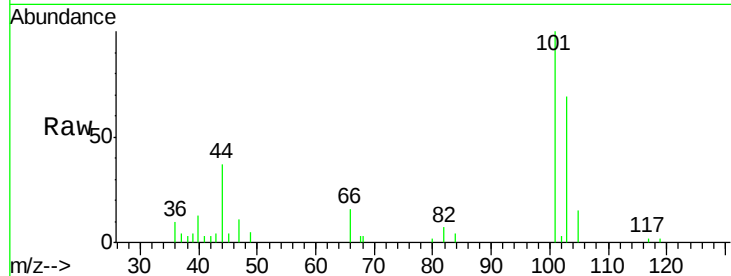
Trichlorofluoromethane
 Concen: 2.695 ug/l
 RT: 3.02 min Scan# 389
 Delta R.T. 0.00 min
 Lab File: VN054983.D
 Acq: 11 Apr 2019 18:04

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

Tot Ion:101 Resp: 17769
 Ion Ratio Lower Upper
 101 100
 103 68.5 53.4 80.0

Manual Integrations
 APPROVED

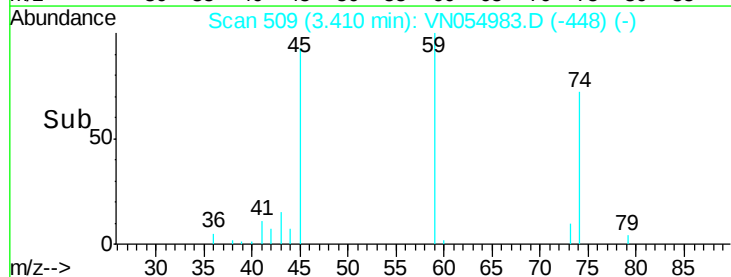
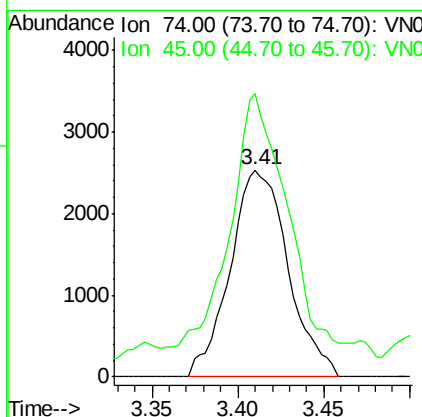
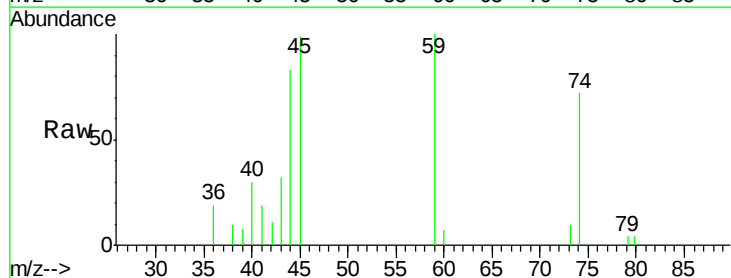
MMDadoda
 4/12/2019 1:41:36 PM

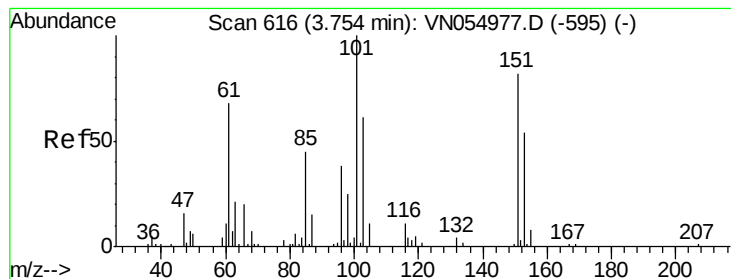


#8

Diethyl Ether
 Concen: 2.805 ug/l
 RT: 3.41 min Scan# 509
 Delta R.T. -0.00 min
 Lab File: VN054983.D
 Acq: 11 Apr 2019 18:04

Tgt Ion: 74 Resp: 5937
 Ion Ratio Lower Upper
 74 100
 45 112.7 22.9 205.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.840 ug/l

RT: 3.75 min Scan# 616

Delta R.T. 0.00 min

Lab File: VN054983.D

Acq: 11 Apr 2019 18:04

Instrument :

MSVOA_N

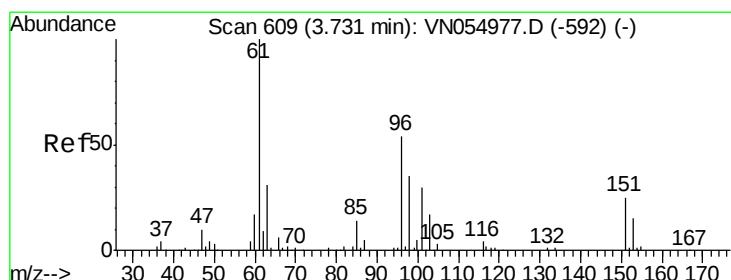
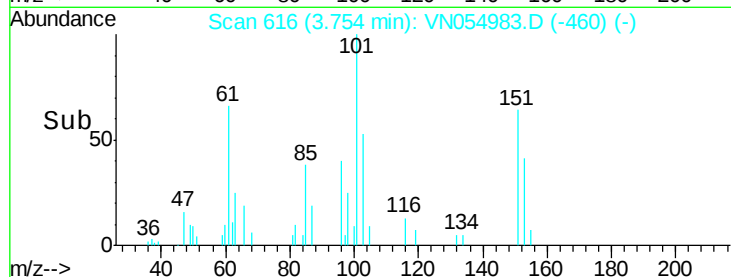
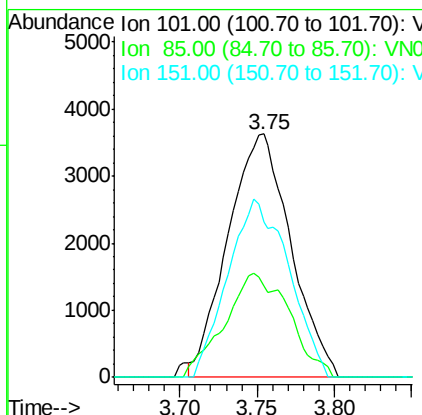
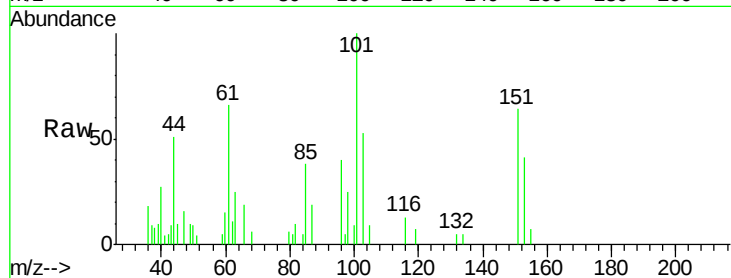
ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion:	101	Resp:	10236
Ion Ratio	Lower	Upper	
101	100		
85	28.9	0.0	91.4
151	46.0	0.0	165.6

Manual Integrations
APPROVED

MMDadoda
4/12/2019 1:41:36 PM



#10

1,1-Dichloroethene

Concen: 2.672 ug/l

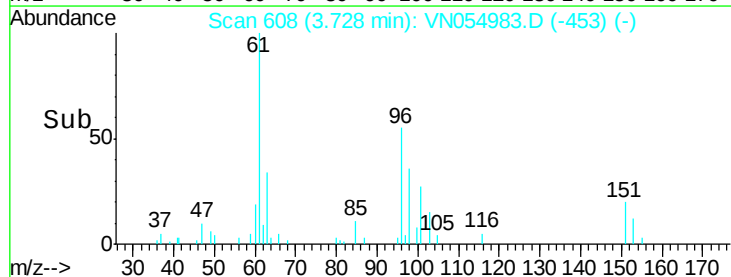
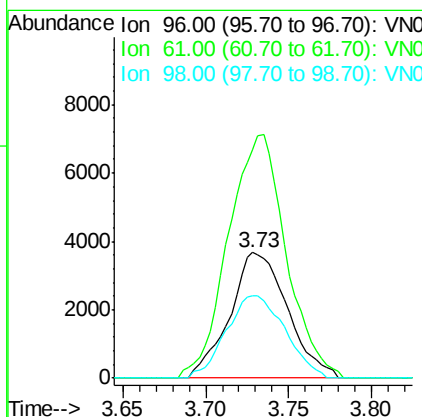
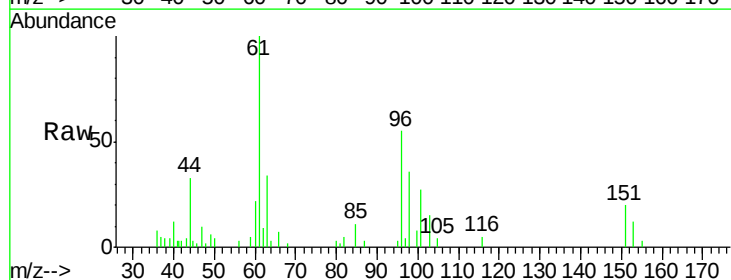
RT: 3.73 min Scan# 608

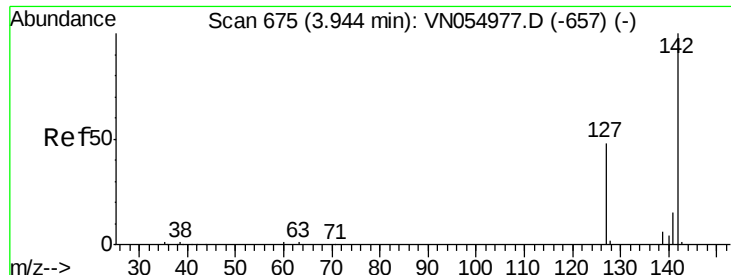
Delta R.T. -0.00 min

Lab File: VN054983.D

Acq: 11 Apr 2019 18:04

Tgt Ion:	96	Resp:	8903
Ion Ratio	Lower	Upper	
96	100		
61	175.4	148.4	222.6
98	65.5	52.2	78.2





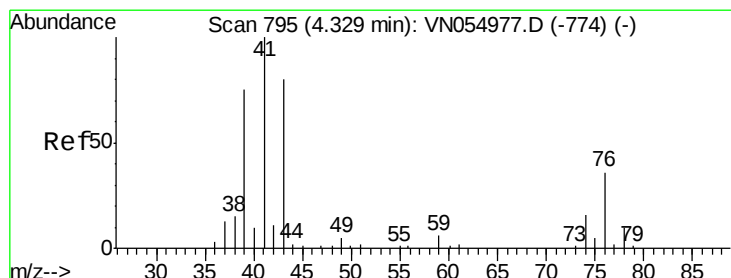
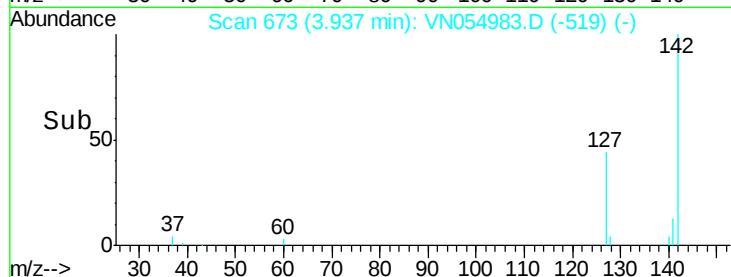
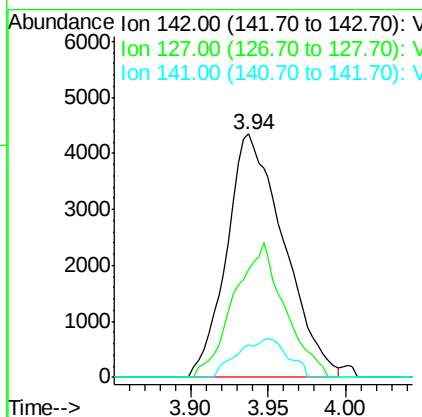
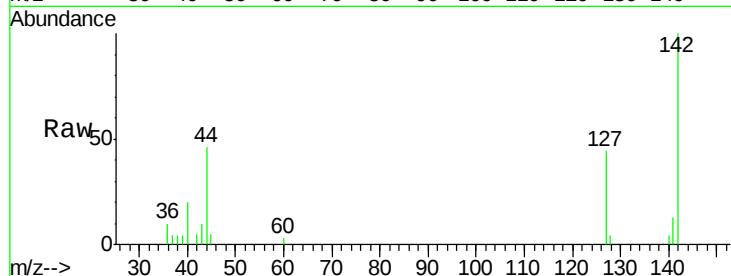
#11
Methvl Iodide
Concen: 2.212 ug/l
RT: 3.94 min Scan# 673
Delta R.T. -0.01 min
Lab File: VN054983.D
Acq: 11 Apr 2019 18:04

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

Tot Ion	Ratio	Lower	Upper
142	100		
127	45.1	23.8	71.5
141	13.5	7.3	22.0

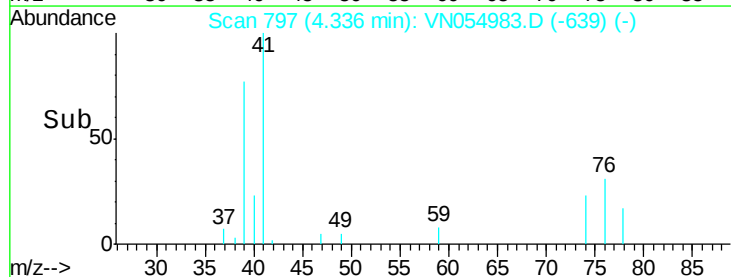
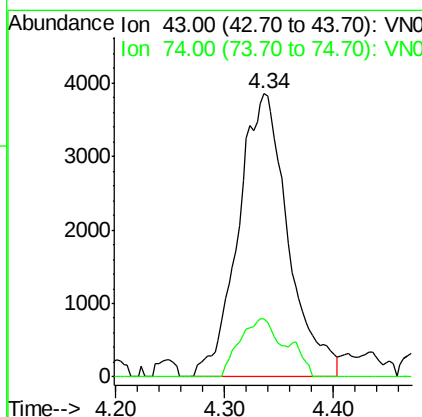
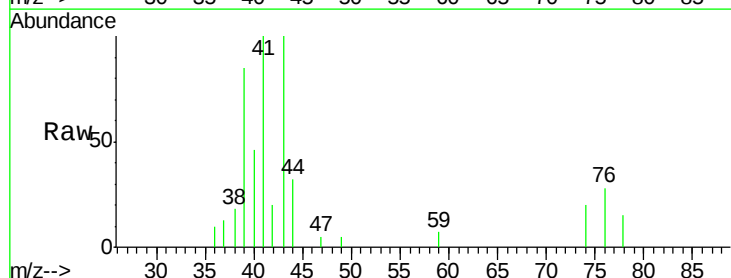
Manual Integrations
APPROVED

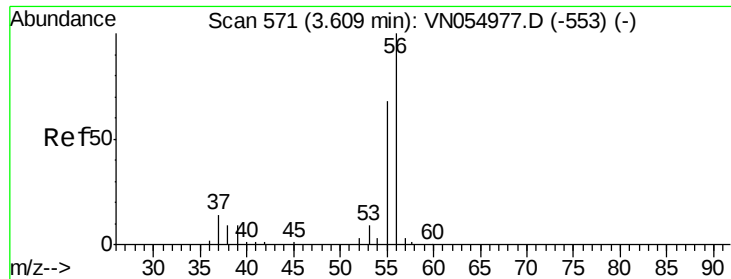
MMDadoda
4/12/2019 1:41:36 PM



#12
Methyl Acetate
Concen: 3.007 ug/l m
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN054983.D
Acq: 11 Apr 2019 18:04

Tgt Ion	Ratio	Lower	Upper
43	100		
74	20.3	16.2	24.4





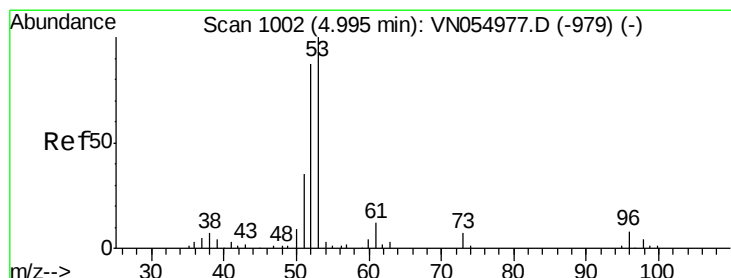
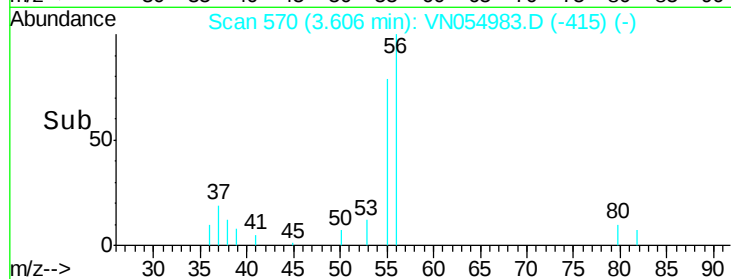
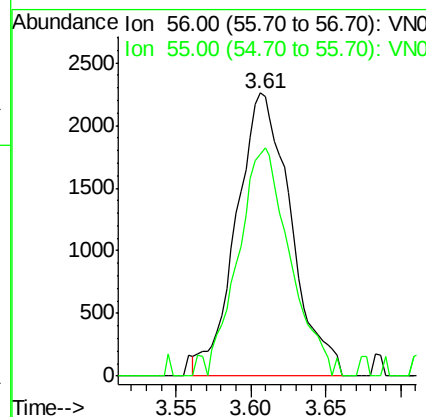
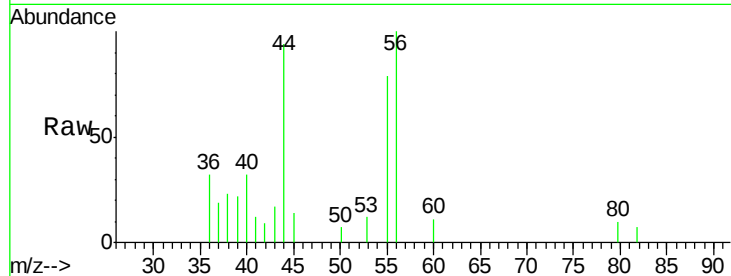
#13
Acrolein
Concen: 15.954 ug/l
RT: 3.61 min Scan# 570
Delta R.T. -0.00 min
Lab File: VN054983.D
Acq: 11 Apr 2019 18:04

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

Tot Ion: 56 Resp: 5730
Ion Ratio Lower Upper
56 100
55 75.7 57.0 85.4

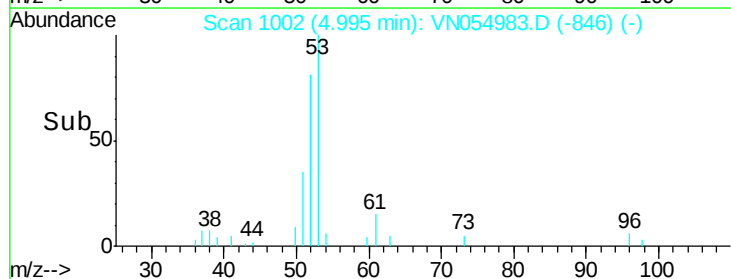
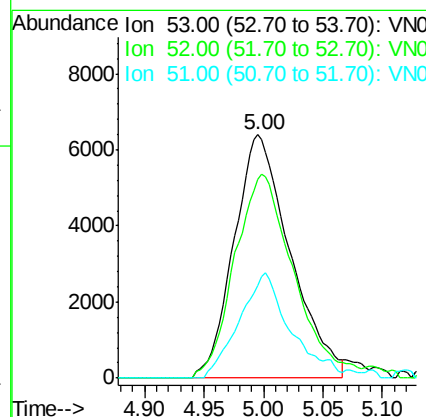
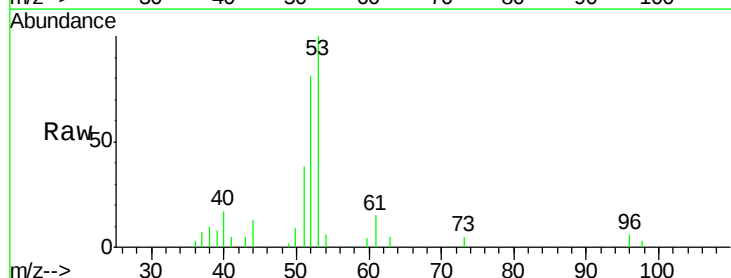
Manual Integrations
APPROVED

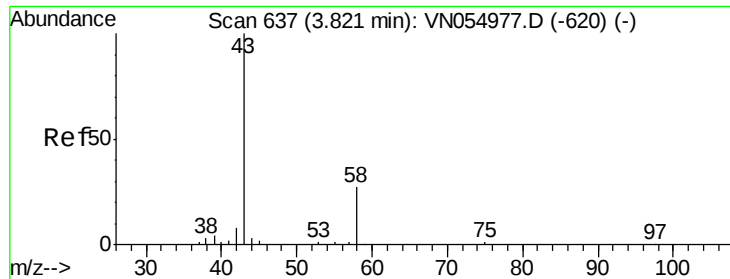
MMDadoda
4/12/2019 1:41:36 PM



#14
Acrylonitrile
Concen: 12.435 ug/l
RT: 5.00 min Scan# 1002
Delta R.T. 0.00 min
Lab File: VN054983.D
Acq: 11 Apr 2019 18:04

Tgt Ion: 53 Resp: 20878
Ion Ratio Lower Upper
53 100
52 88.1 42.3 126.8
51 37.9 18.6 56.0





#15

Acetone

Concen: 10.903 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN054983.D

Acq: 11 Apr 2019 18:04

Tot Ion: 58 Resp: 4530

Ion Ratio Lower Upper

58 100

43 393.1 297.2 445.8

Instrument :

MSVOA_N

ClientSampleId :

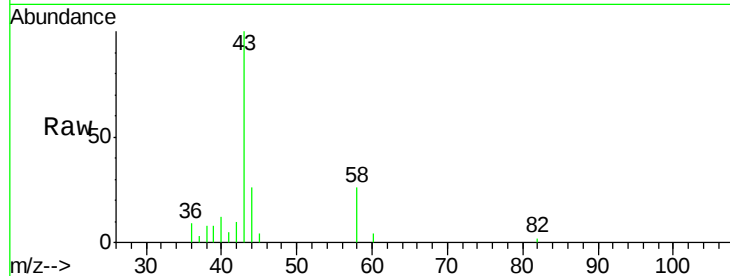
LOD-MDL-WATER-01-QT2-2019

Manual Integrations

APPROVED

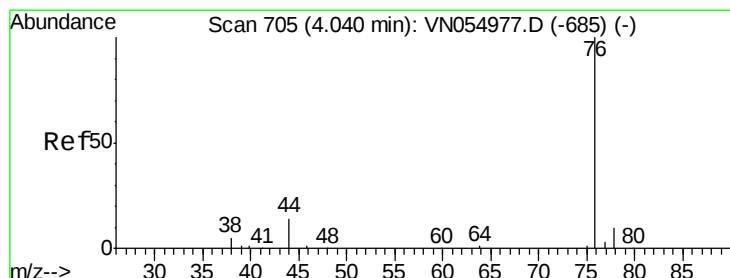
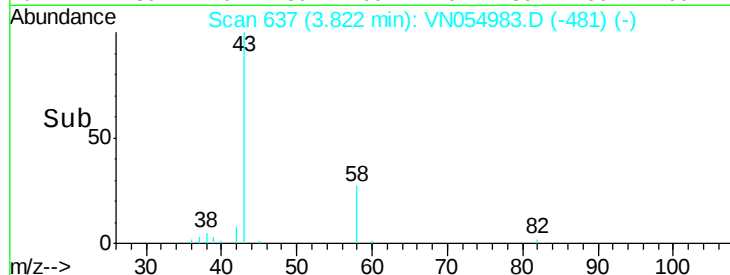
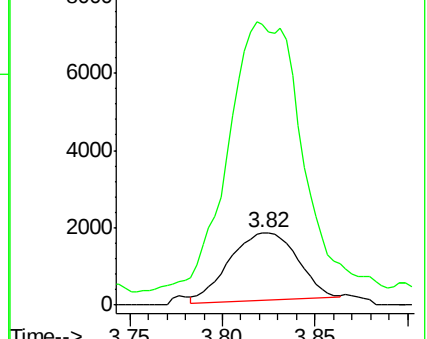
MMDadoda

4/12/2019 1:41:36 PM



Abundance Ion 58.00 (57.70 to 58.70): VN054983.D (-481) (-)

Ion 43.00 (42.70 to 43.70): VN054983.D (-481) (-)



#16

Carbon Disulfide

Concen: 2.588 ug/l

RT: 4.04 min Scan# 705

Delta R.T. 0.00 min

Lab File: VN054983.D

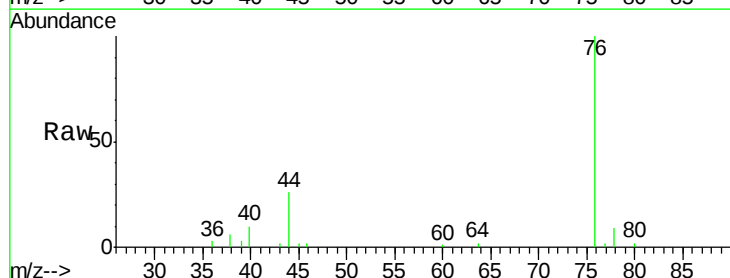
Acq: 11 Apr 2019 18:04

Tgt Ion: 76 Resp: 28928

Ion Ratio Lower Upper

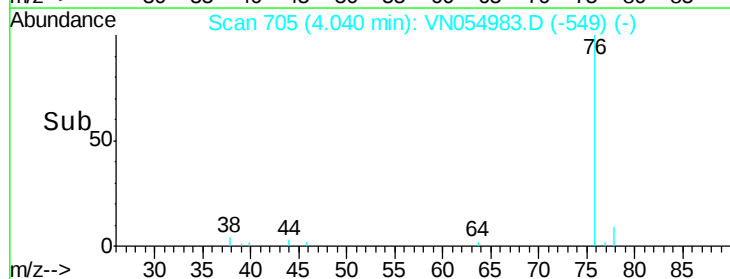
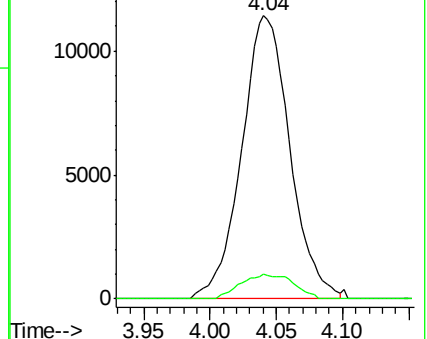
76 100

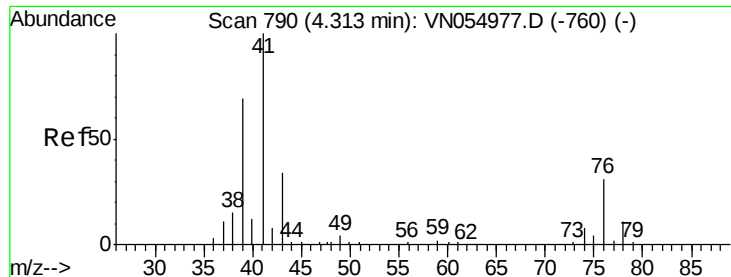
78 8.6 7.8 11.6



Abundance Ion 76.00 (75.70 to 76.70): VN054983.D (-549) (-)

Ion 78.00 (77.70 to 78.70): VN054983.D (-549) (-)





#17

Allvl chloride

Concen: 2.341 ug/l

RT: 4.32 min Scan# 792

Delta R.T. 0.01 min

Lab File: VN054983.D

Acq: 11 Apr 2019 18:04

Instrument :

MSVOA_N

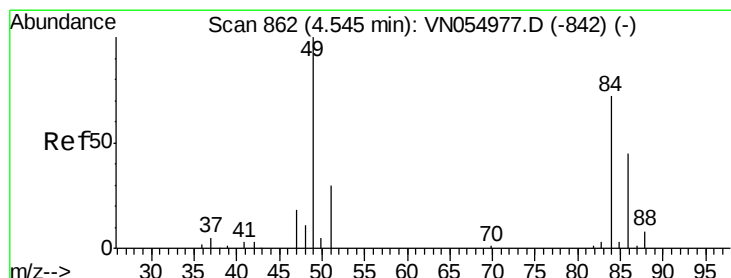
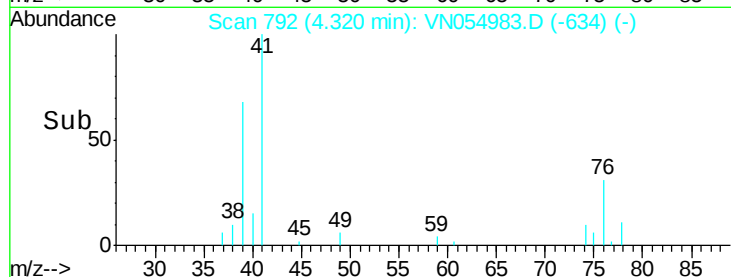
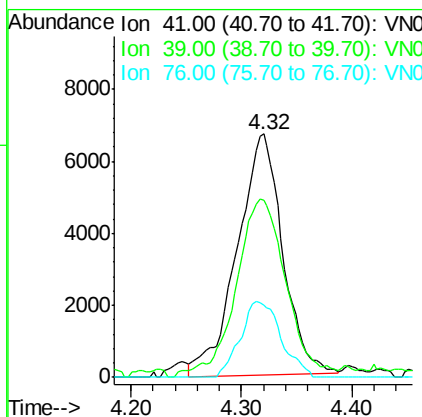
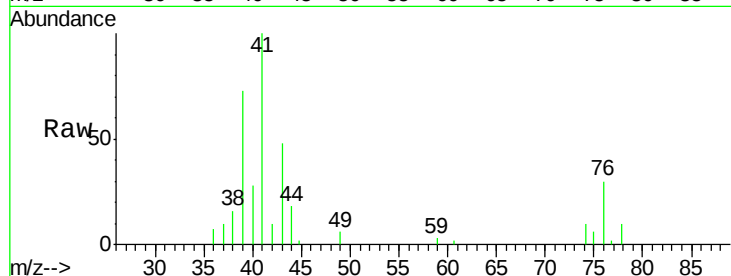
ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion:	41	Resp:	19204
Ion	Ratio	Lower	Upper
41	100		
39	71.7	34.3	102.9
76	30.4	15.8	47.3

Manual Integrations
APPROVED

MMDadoda
4/12/2019 1:41:36 PM



#18

Methylene Chloride

Concen: 2.925 ug/l

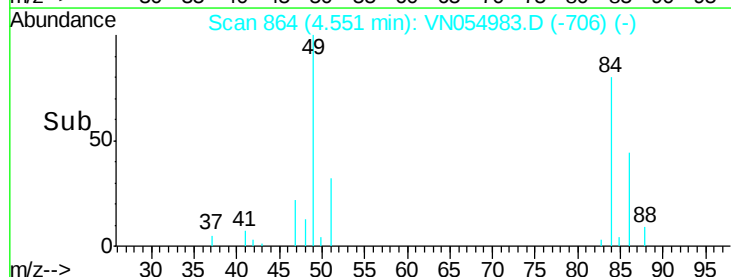
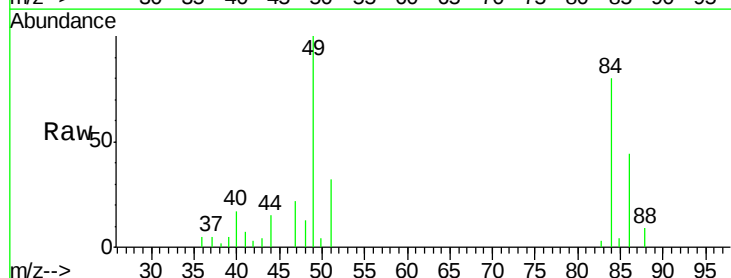
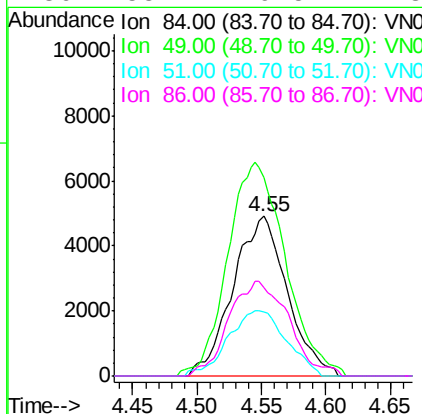
RT: 4.55 min Scan# 864

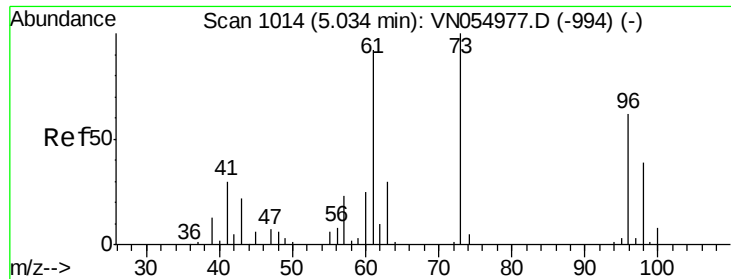
Delta R.T. 0.01 min

Lab File: VN054983.D

Acq: 11 Apr 2019 18:04

Tgt Ion:	84	Resp:	14404
Ion	Ratio	Lower	Upper
84	100		
49	119.4	111.0	166.4
51	39.9	33.4	50.2
86	55.2	49.5	74.3





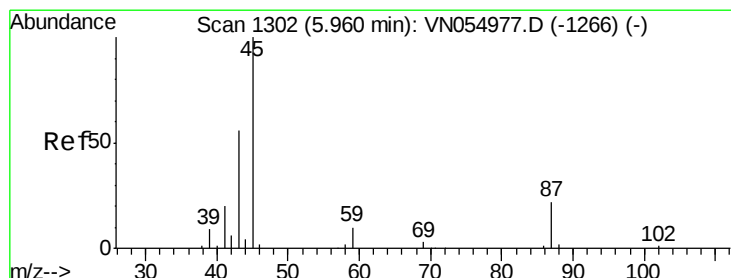
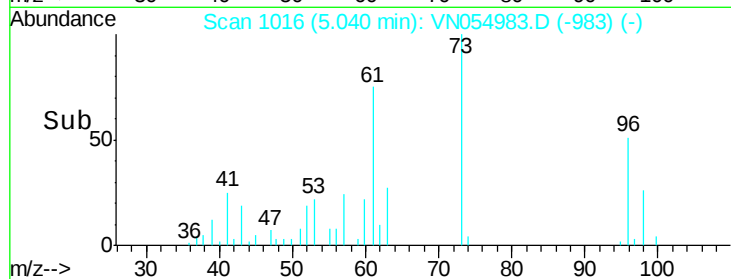
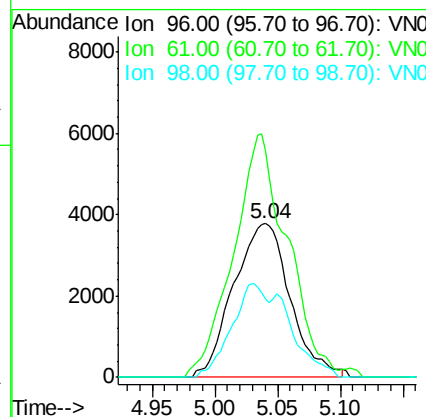
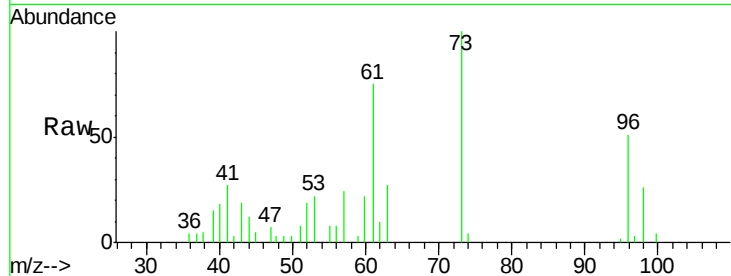
#19
trans-1,2-Dichloroethene
Concen: 2.731 ug/l
RT: 5.04 min Scan# 1016
Delta R.T. 0.01 min
Lab File: VN054983.D
Acq: 11 Apr 2019 18:04

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

Tot Ion	Ion	Ratio	Resp	Lower	Upper
96	100		11843		
61	142.6		117.2	175.8	
98	51.1		49.4	74.2	

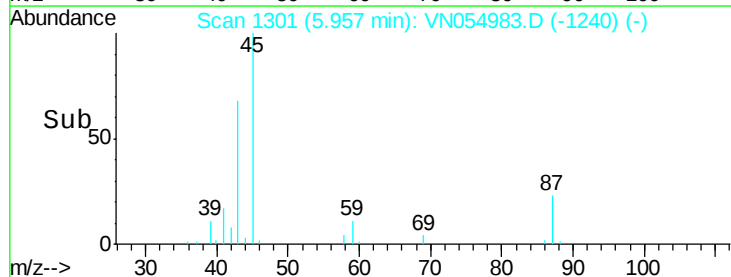
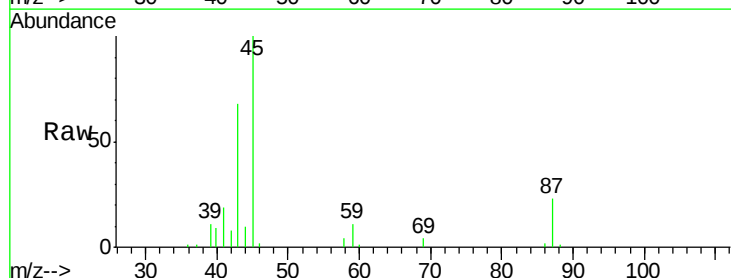
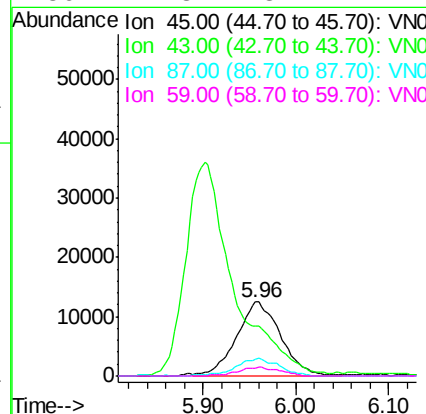
Manual Integrations
APPROVED

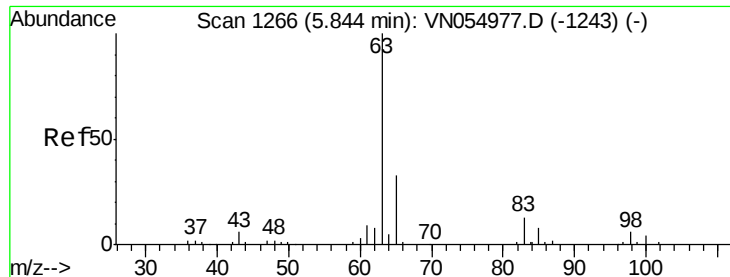
MMDadoda
4/12/2019 1:41:36 PM



#20
Diisopropyl ether
Concen: 2.455 ug/l
RT: 5.96 min Scan# 1301
Delta R.T. -0.00 min
Lab File: VN054983.D
Acq: 11 Apr 2019 18:04

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
45	100		40806		
43	64.9		45.8	68.8	
87	22.9		18.2	27.4	
59	11.3		8.2	12.2	





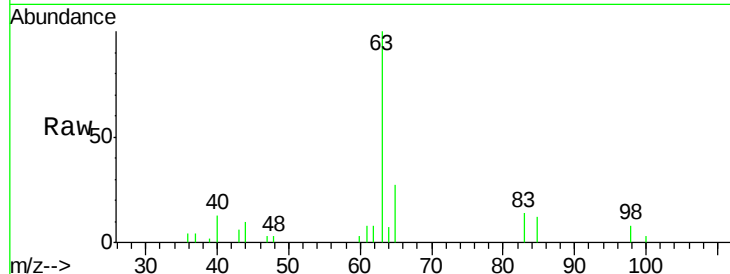
#21
 1,1-Dichloroethane
 Concen: 2.615 ug/l
 RT: 5.85 min Scan# 1267
 Delta R.T. 0.00 min
 Lab File: VN054983.D
 Acq: 11 Apr 2019 18:04

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

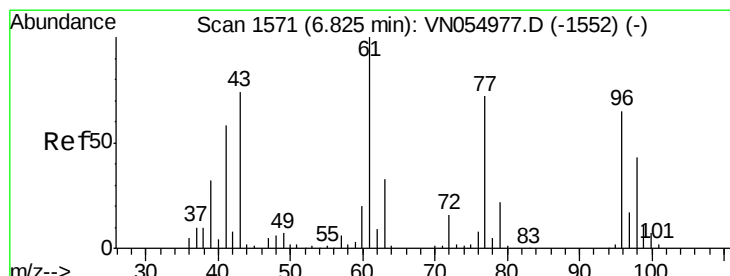
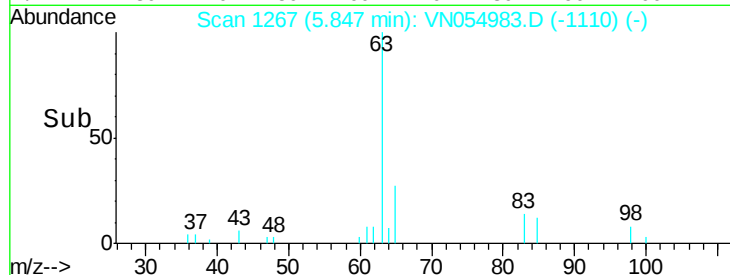
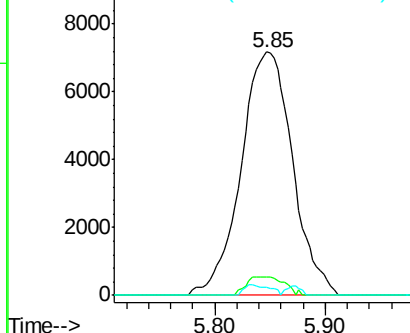
Tot Ion:	63	Resp:	23215
Ion Ratio	Lower	Upper	
63	100		
98	7.8	2.9	8.7
100	3.3	2.0	5.8

Manual Integrations
 APPROVED

MMDadoda
 4/12/2019 1:41:36 PM



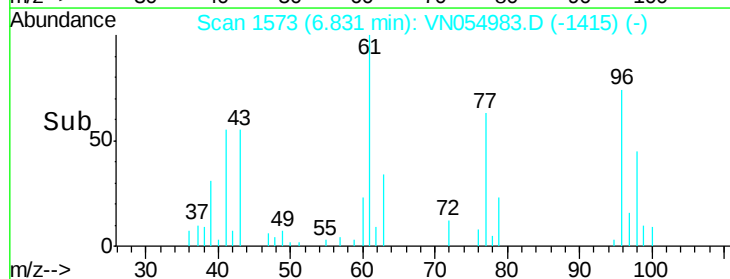
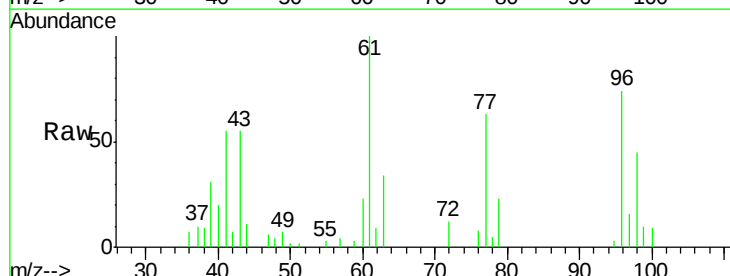
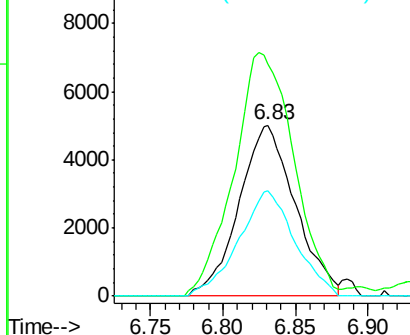
Abundance Ion 63.00 (62.70 to 63.70): VN0
 Ion 98.00 (97.70 to 98.70): VN0
 Ion 100.00 (99.70 to 100.70): VN0

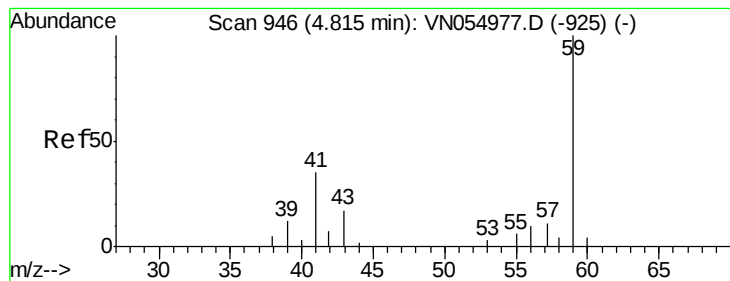


#22
 cis-1,2-Dichloroethene
 Concen: 2.683 ug/l
 RT: 6.83 min Scan# 1573
 Delta R.T. 0.01 min
 Lab File: VN054983.D
 Acq: 11 Apr 2019 18:04

Tgt Ion:	96	Resp:	13525
Ion Ratio	Lower	Upper	
96	100		
61	151.3	125.0	187.6
98	61.4	52.2	78.2

Abundance Ion 96.00 (95.70 to 96.70): VN0
 Ion 61.00 (60.70 to 61.70): VN0
 Ion 98.00 (97.70 to 98.70): VN0





#23

tert-Butyl Alcohol

Concen: 13.081 ug/l m

RT: 4.82 min Scan# 948

Delta R.T. 0.01 min

Lab File: VN054983.D

Acq: 11 Apr 2019 18:04

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion: 59 Resp: 3502

Ion Ratio Lower Upper

59 100

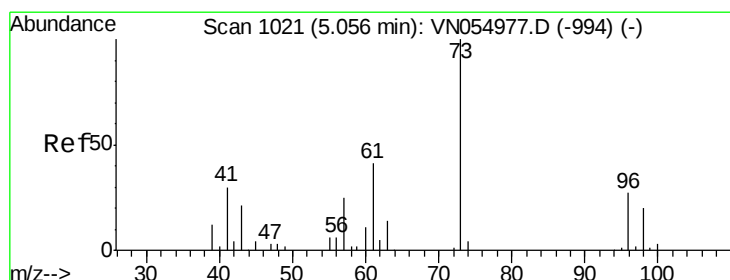
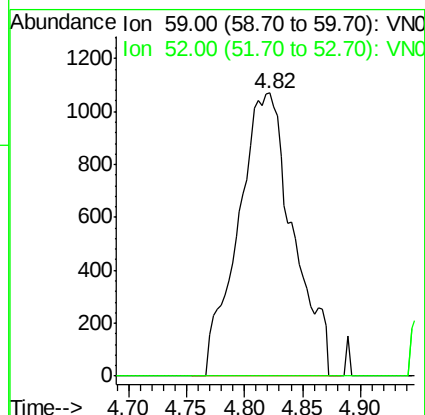
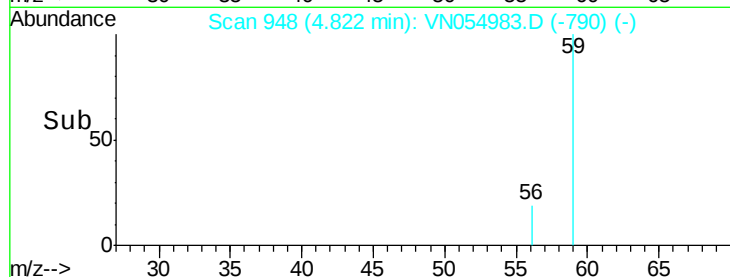
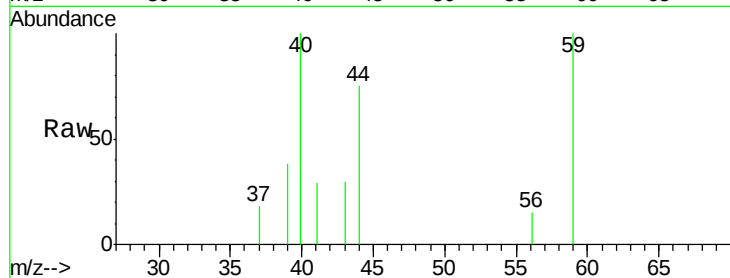
52 0.0 0.0 0.0

Manual Integrations

APPROVED

MMDadoda

4/12/2019 1:41:36 PM



#24

Methyl tert-Butyl Ether

Concen: 2.643 ug/l

RT: 5.06 min Scan# 1022

Delta R.T. 0.00 min

Lab File: VN054983.D

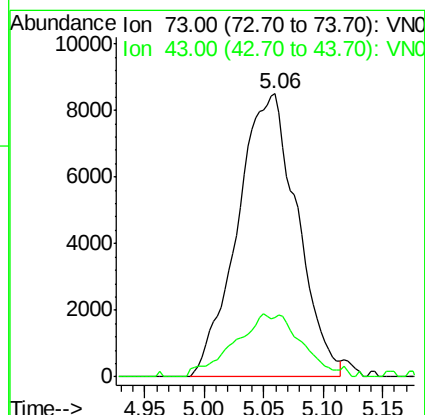
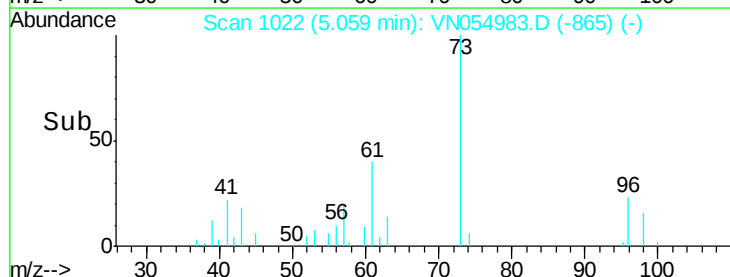
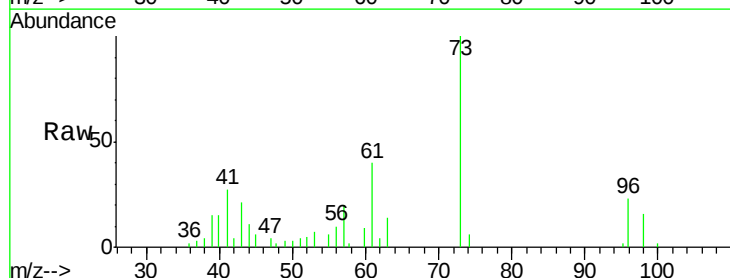
Acq: 11 Apr 2019 18:04

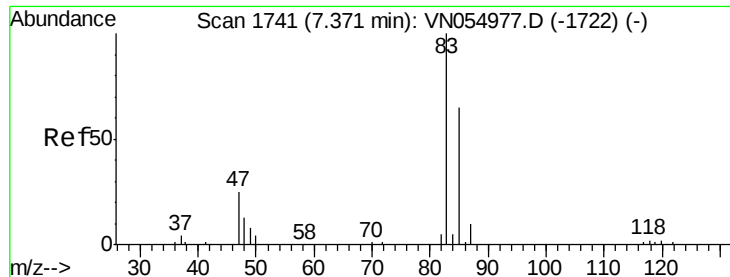
Tgt Ion: 73 Resp: 29574

Ion Ratio Lower Upper

73 100

43 13.9 8.0 12.0#





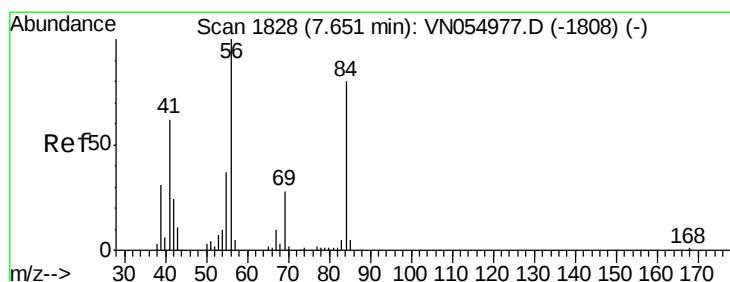
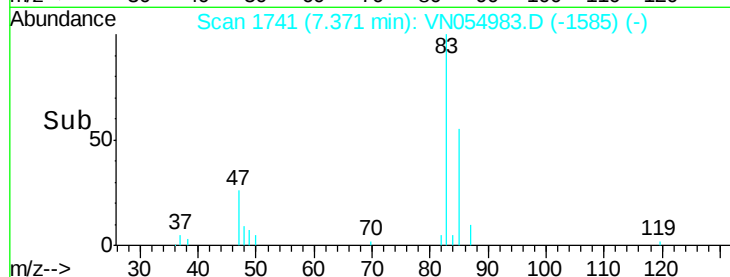
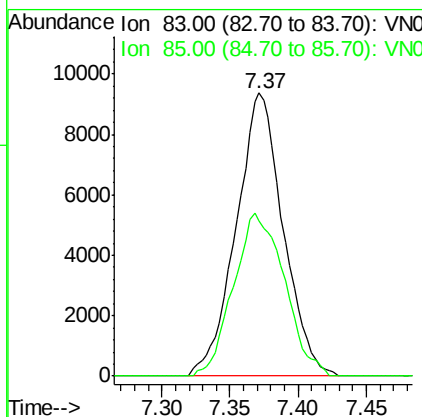
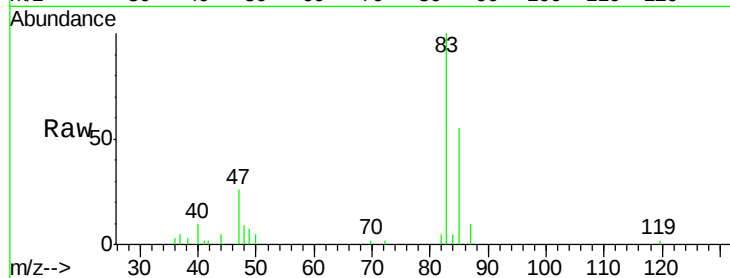
#25
Chloroform
Concen: 2.638 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN054983.D
Acq: 11 Apr 2019 18:04

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

Tot Ion: 83 Resp: 22438
Ion Ratio Lower Upper
83 100
85 55.0 51.8 77.8

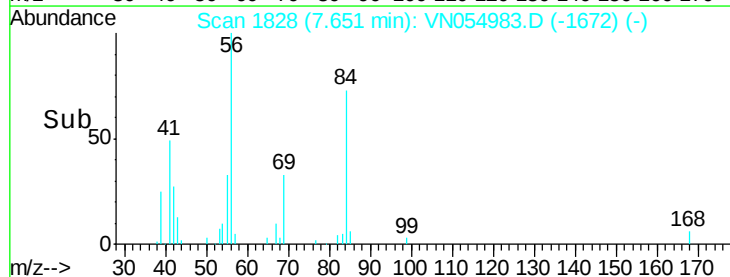
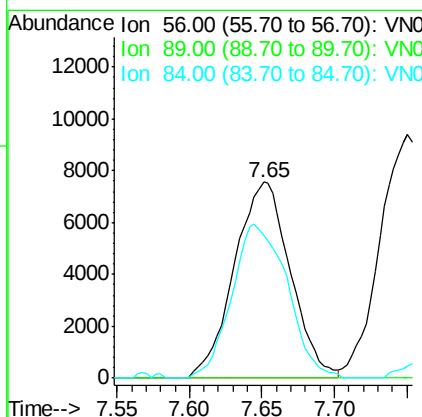
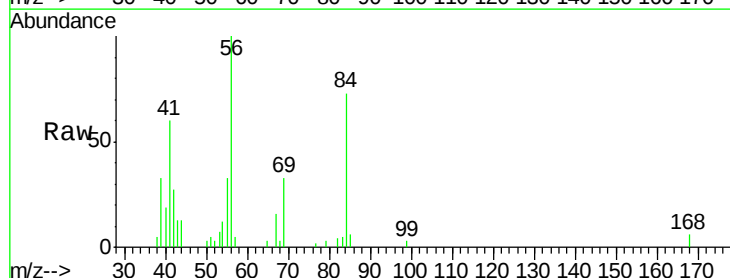
Manual Integrations
APPROVED

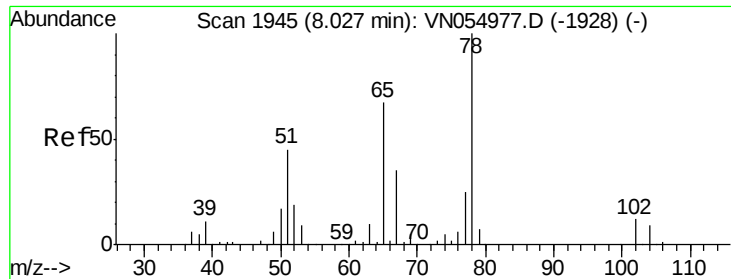
MMDadoda
4/12/2019 1:41:36 PM



#26
Cyclohexane
Concen: 2.470 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. 0.00 min
Lab File: VN054983.D
Acq: 11 Apr 2019 18:04

Tgt Ion: 56 Resp: 20347
Ion Ratio Lower Upper
56 100
89 0.0 0.0 0.0
84 77.6 63.5 95.3





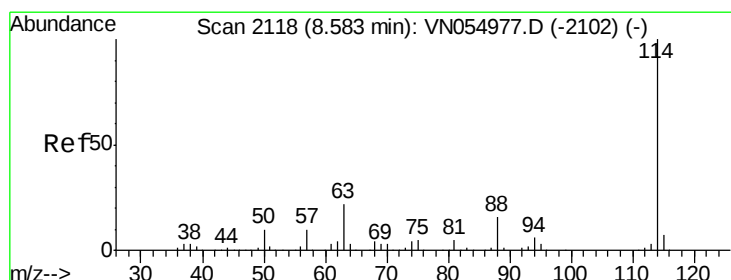
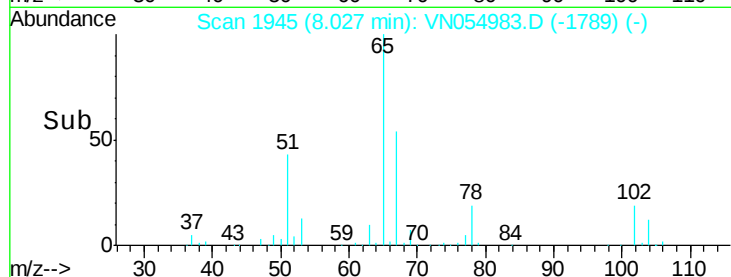
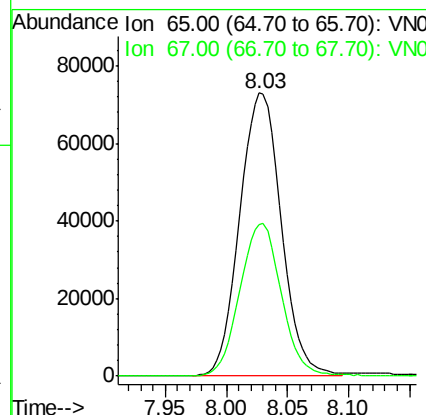
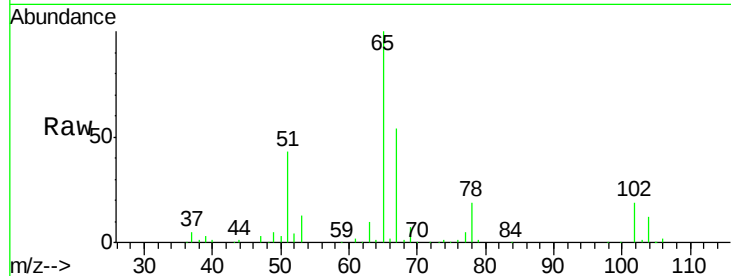
#27
 1,2-Dichloroethane-d4
 Concen: 2.470 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN054983.D
 Acq: 11 Apr 2019 18:04

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

Tot Ion	Ratio	Resp	Lower	Upper
65	100	172525		
67	53.8		41.8	62.8

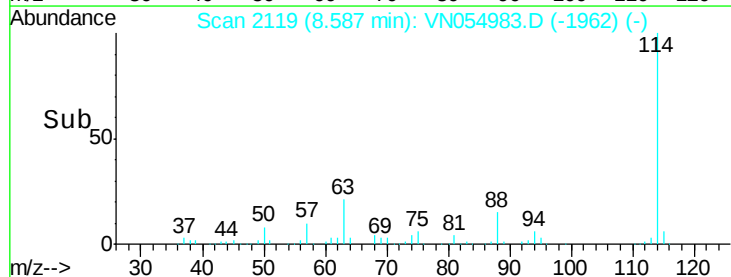
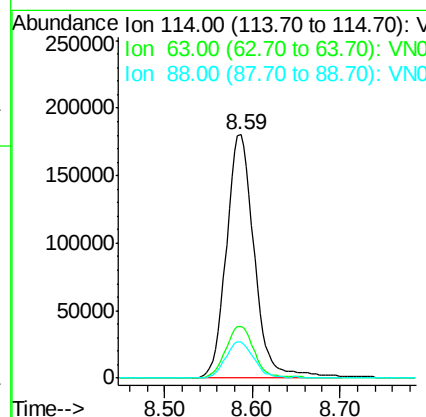
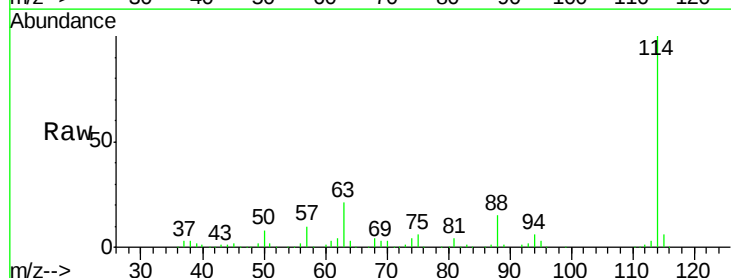
Manual Integrations
 APPROVED

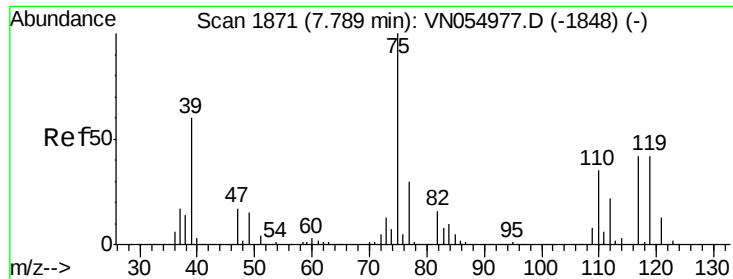
MMDadoda
 4/12/2019 1:41:36 PM



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054983.D
 Acq: 11 Apr 2019 18:04

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	400788		
63	21.9		17.0	25.4
88	15.2		12.3	18.5





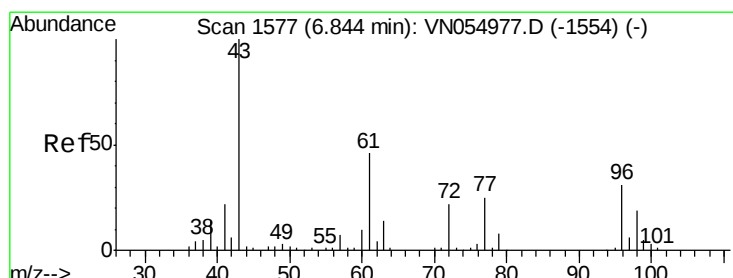
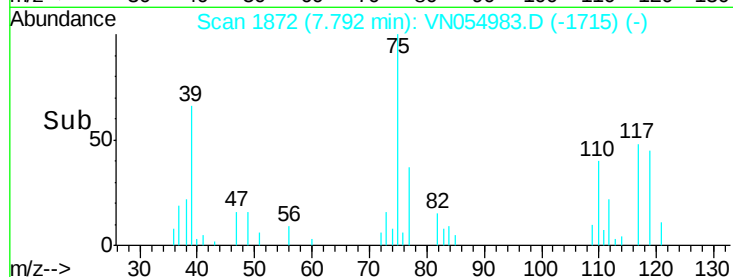
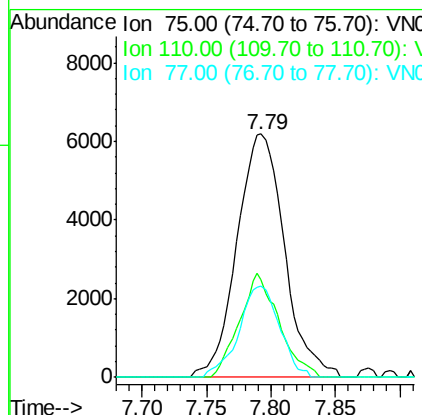
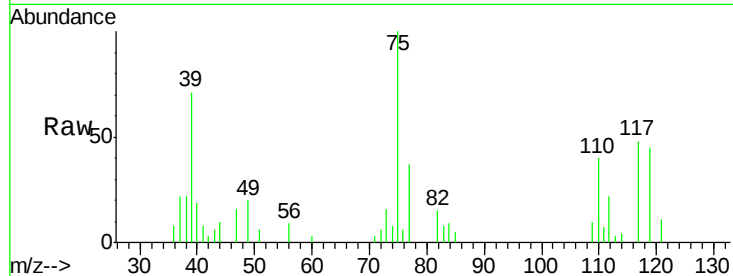
#29
 1,1-Dichloropropene
 Concen: 2.546 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. 0.00 min
 Lab File: VN054983.D
 Acq: 11 Apr 2019 18:04

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

Tot Ion	Ratio	Resp	Lower	Upper
75	100			
110	35.4	0.0	68.4	
77	31.9	0.0	58.6	

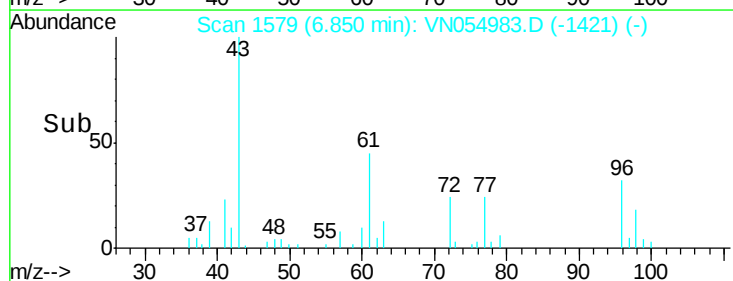
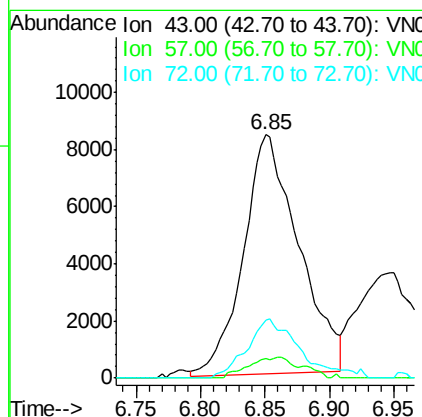
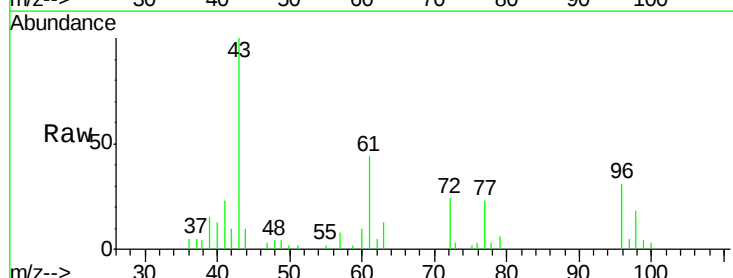
Manual Integrations
 APPROVED

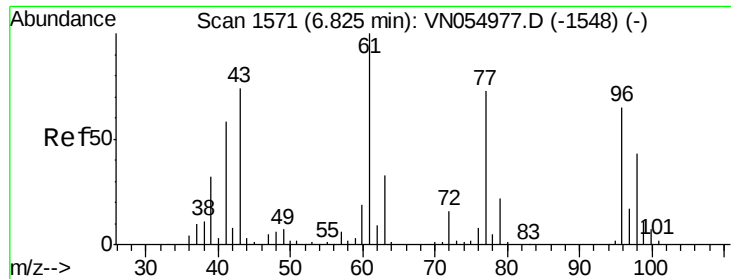
MMDadoda
 4/12/2019 1:41:36 PM



#30
 2-Butanone
 Concen: 12.158 ug/l
 RT: 6.85 min Scan# 1579
 Delta R.T. 0.01 min
 Lab File: VN054983.D
 Acq: 11 Apr 2019 18:04

Tgt Ion	Ratio	Resp	Lower	Upper
43	100			
57	3.6	6.0	9.0#	
72	13.4	18.6	27.8#	





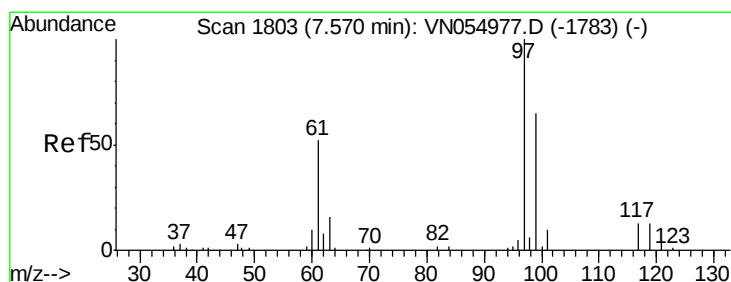
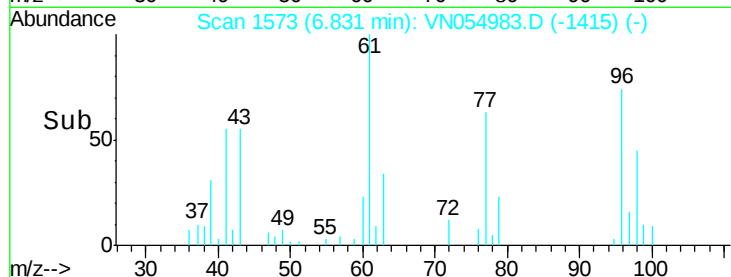
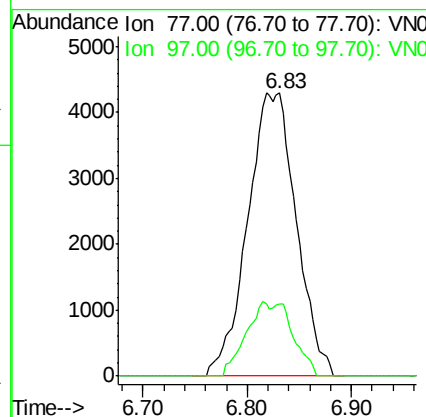
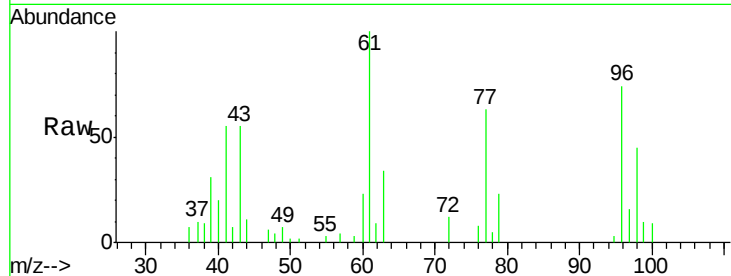
#31
 2,2-Dichloropropane
 Concen: 2.424 ug/l m
 RT: 6.83 min Scan# 1573
 Delta R.T. 0.01 min
 Lab File: VN054983.D
 Acq: 11 Apr 2019 18:04

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

Tot Ion: 77 Resp: 13926
 Ion Ratio Lower Upper
 77 100
 97 12.9 0.0 0.0#

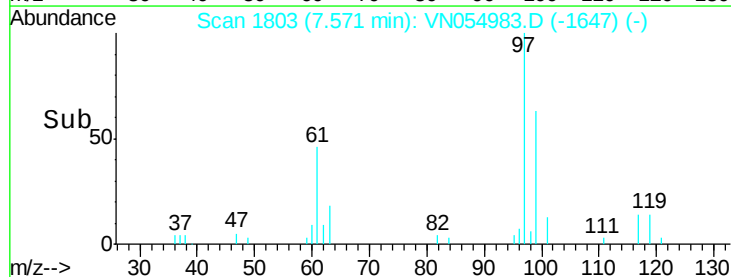
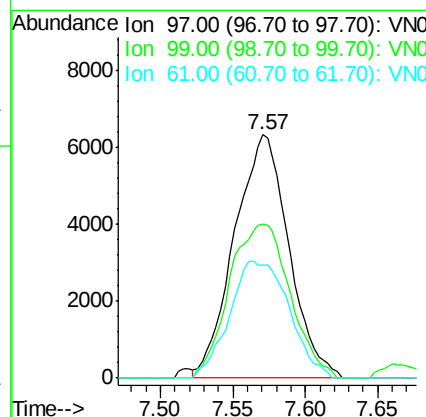
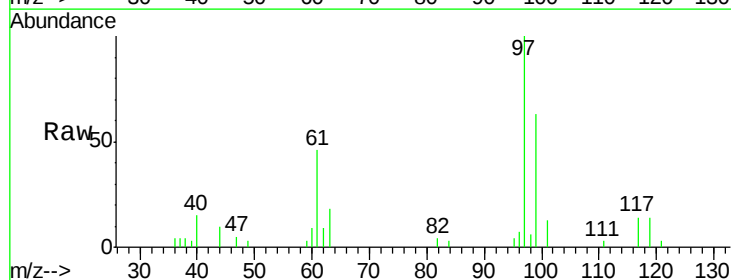
Manual Integrations
 APPROVED

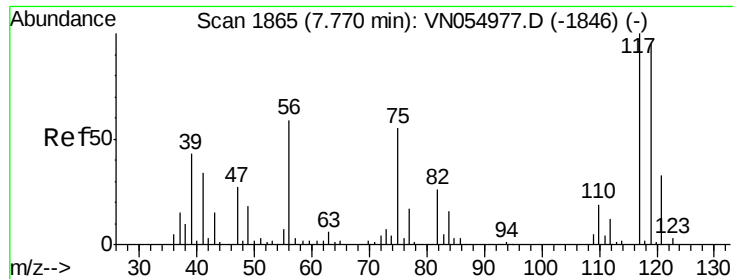
MMDadoda
 4/12/2019 1:41:36 PM



#32
 1,1,1-Trichloroethane
 Concen: 2.505 ug/l
 RT: 7.57 min Scan# 1803
 Delta R.T. 0.00 min
 Lab File: VN054983.D
 Acq: 11 Apr 2019 18:04

Tgt Ion: 97 Resp: 16525
 Ion Ratio Lower Upper
 97 100
 99 70.4 51.2 76.8
 61 29.9 40.6 60.8#





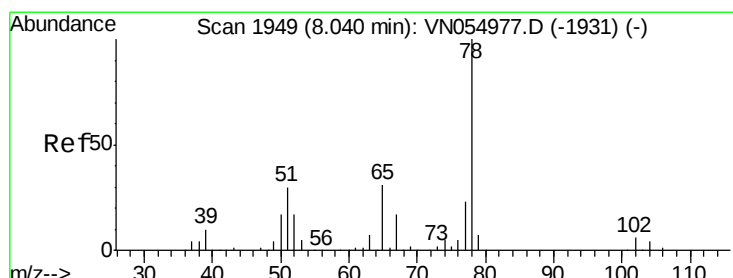
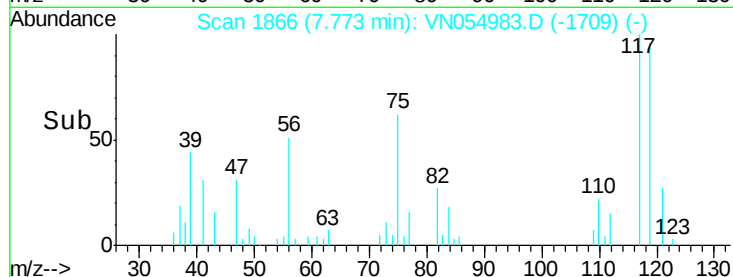
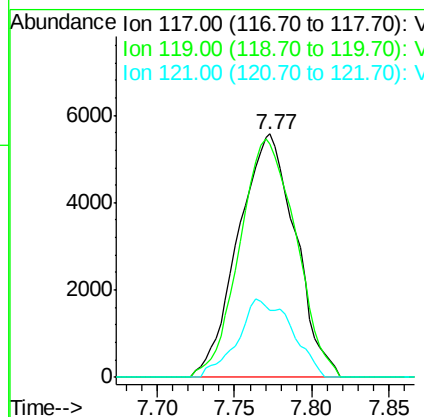
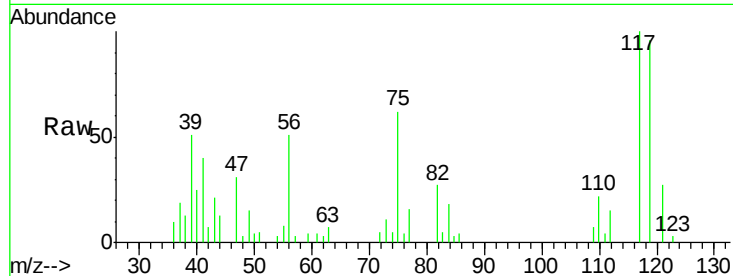
#33
Carbon Tetrachloride
Concen: 2.506 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN054983.D
Acq: 11 Apr 2019 18:04

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

Tot Ion	Ratio	Lower	Upper
117	100		
119	95.8	76.1	114.1
121	27.4	26.2	39.4

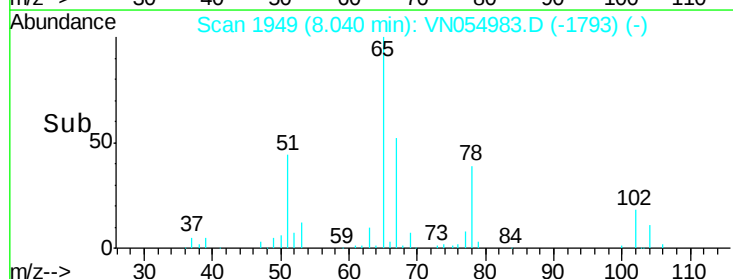
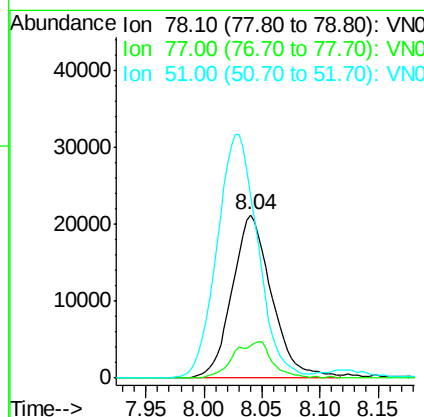
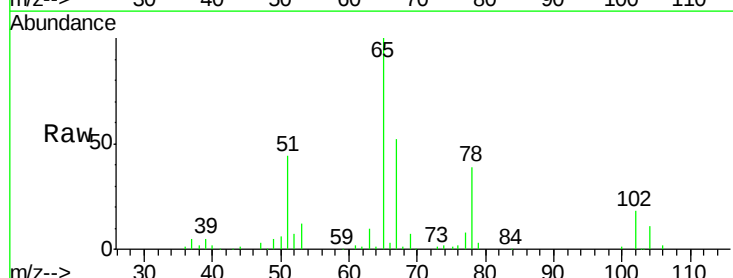
Manual Integrations
APPROVED

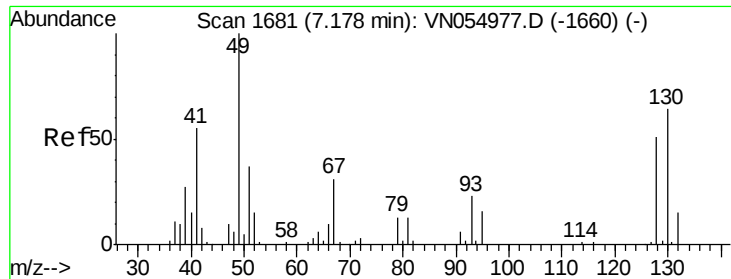
MMDadoda
4/12/2019 1:41:36 PM



#34
Benzene
Concen: 2.707 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. 0.00 min
Lab File: VN054983.D
Acq: 11 Apr 2019 18:04

Tgt Ion	Ratio	Lower	Upper
78	100		
77	20.0	18.2	27.4
51	106.6	23.7	35.5#





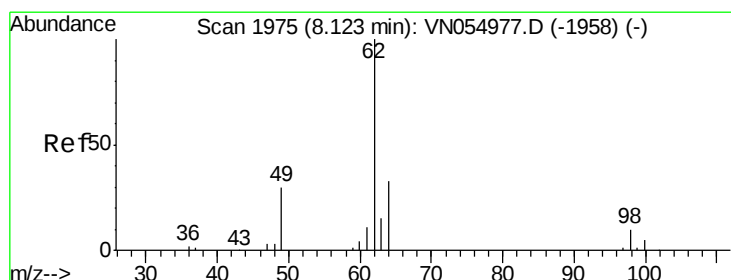
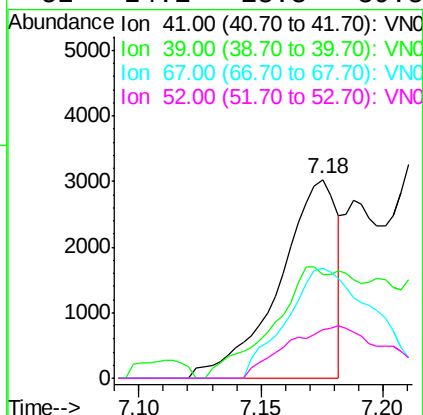
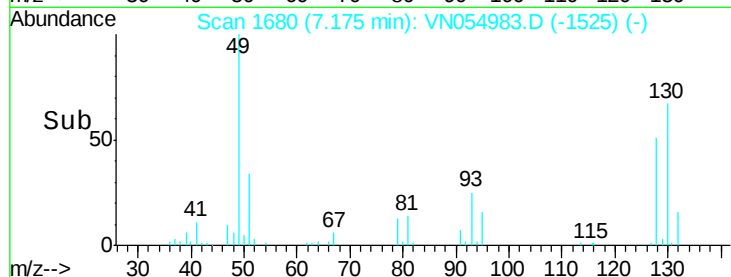
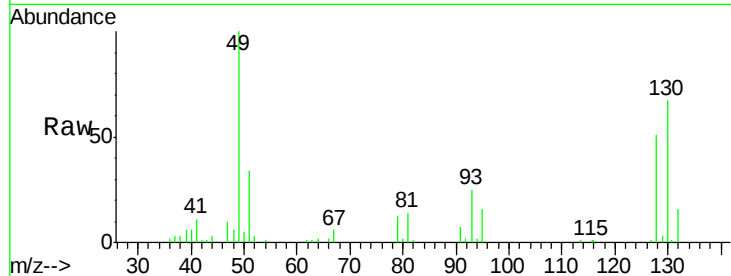
#35
Methacrylonitrile
Concen: 2.033 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. -0.00 min
Lab File: VN054983.D
Acq: 11 Apr 2019 18:04

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

Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	100		4965		
39	46.1	24.2	72.6		
67	55.5	28.1	84.2		
52	24.1	13.3	39.8		

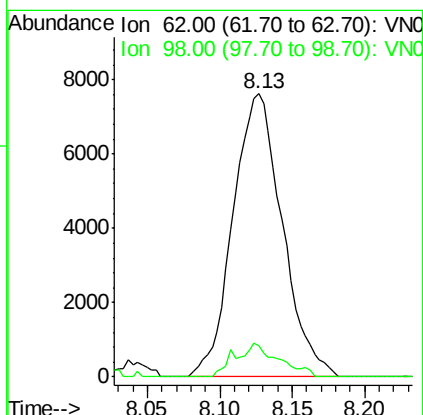
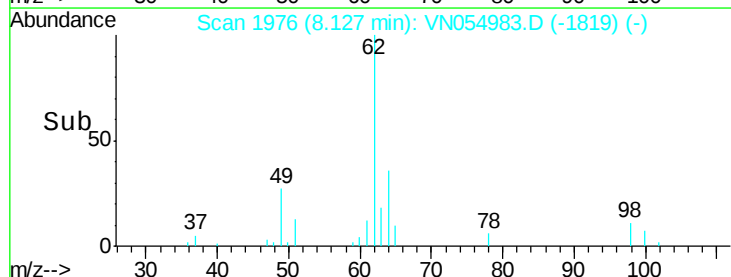
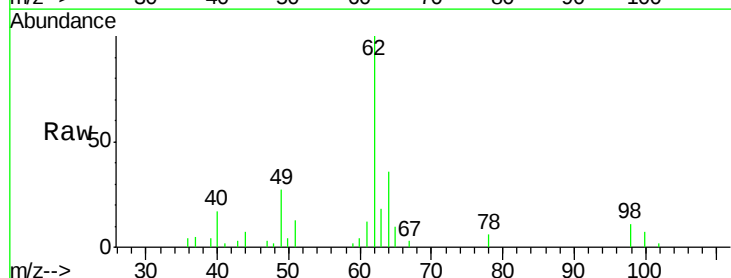
Manual Integrations
APPROVED

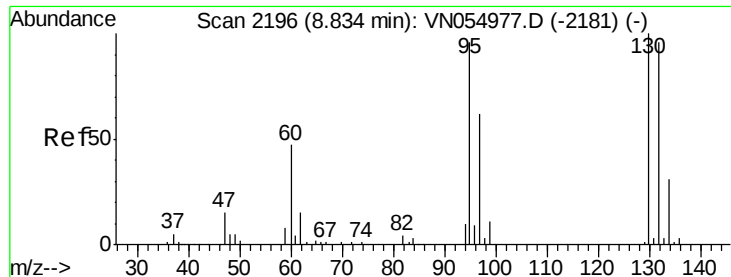
MMDadoda
4/12/2019 1:41:36 PM



#36
1,2-Dichloroethane
Concen: 2.850 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN054983.D
Acq: 11 Apr 2019 18:04

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
62	100		18017		
98	7.0	6.9	10.3		





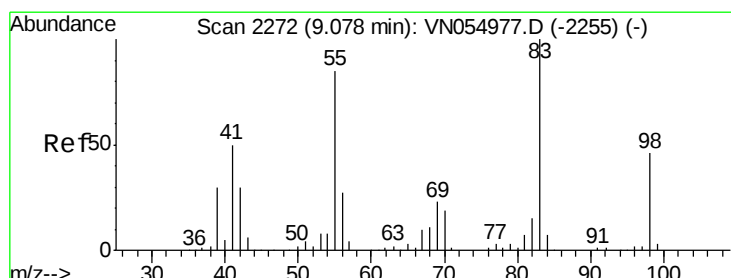
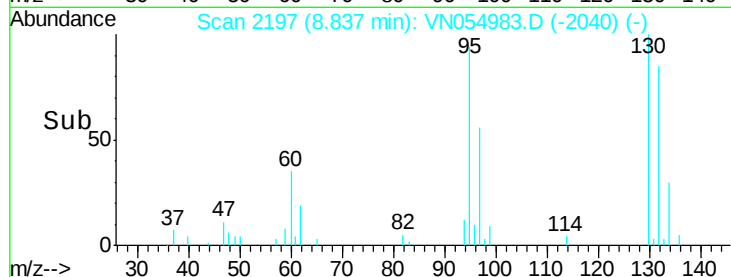
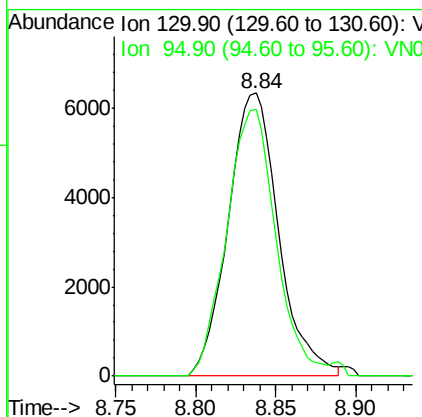
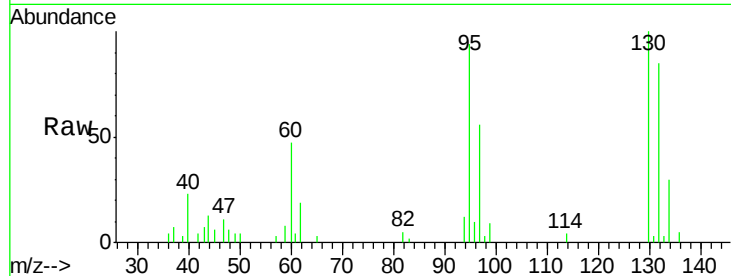
#37
 Trichloroethene
 Concen: 2.897 ug/l
 RT: 8.84 min Scan# 2197
 Delta R.T. 0.00 min
 Lab File: VN054983.D
 Acq: 11 Apr 2019 18:04

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

Tot Ion:130 Resp: 13663
 Ion Ratio Lower Upper
 130 100
 95 94.3 76.6 115.0

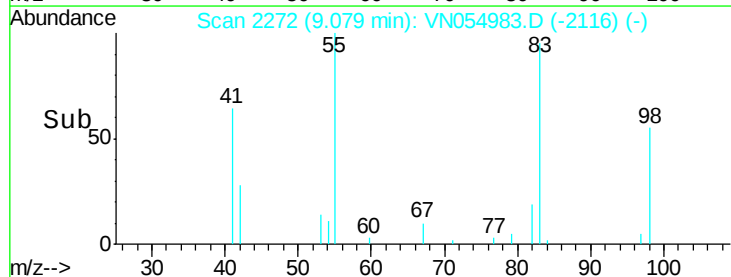
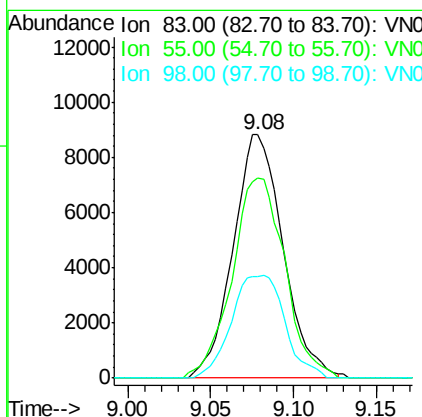
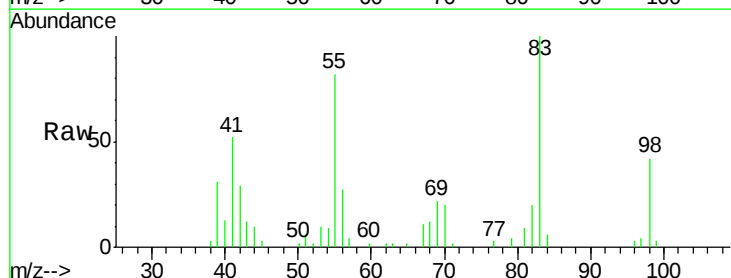
Manual Integrations
 APPROVED

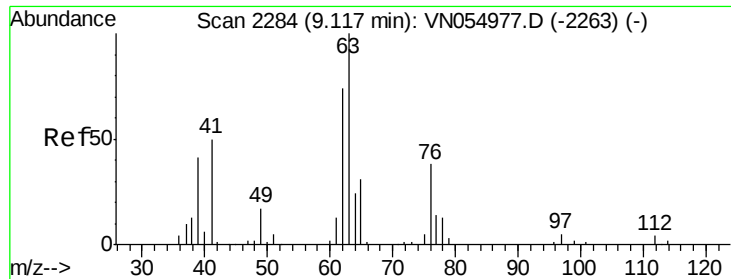
MMDadoda
 4/12/2019 1:41:36 PM



#38
 Methylcyclohexane
 Concen: 2.557 ug/l
 RT: 9.08 min Scan# 2272
 Delta R.T. 0.00 min
 Lab File: VN054983.D
 Acq: 11 Apr 2019 18:04

Tgt Ion: 83 Resp: 18512
 Ion Ratio Lower Upper
 83 100
 55 86.8 41.9 125.6
 98 45.1 22.4 67.0





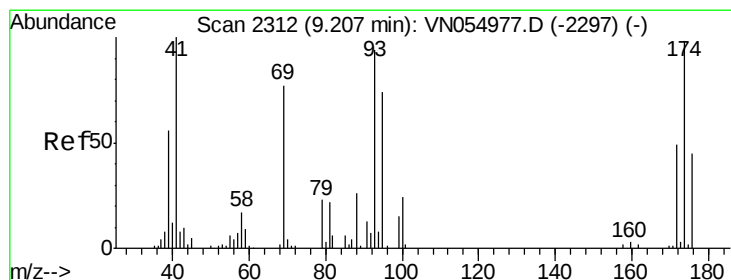
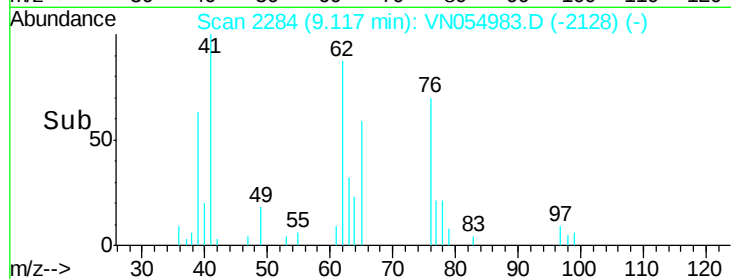
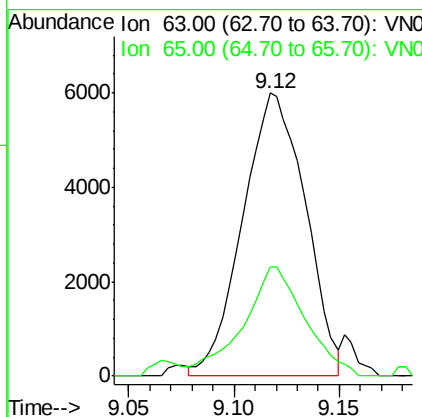
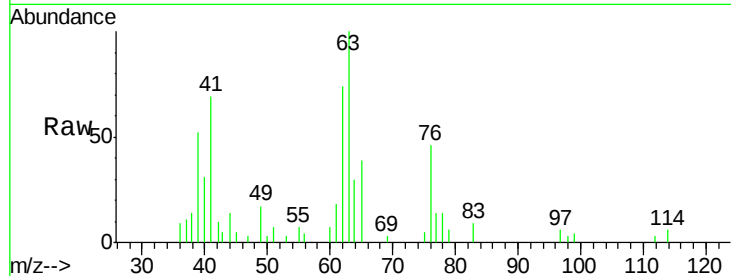
#39
 1,2-Dichloropropane
 Concen: 2.429 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. 0.00 min
 Lab File: VN054983.D
 Acq: 11 Apr 2019 18:04

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

Tot Ion: 63 Resp: 12406
 Ion Ratio Lower Upper
 63 100
 65 36.5 24.8 37.2

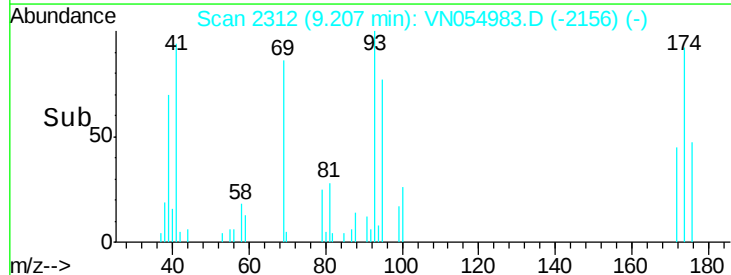
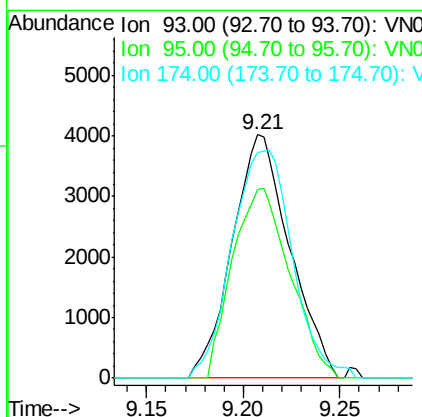
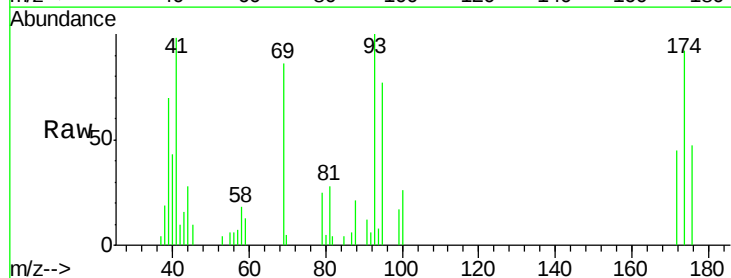
Manual Integrations
 APPROVED

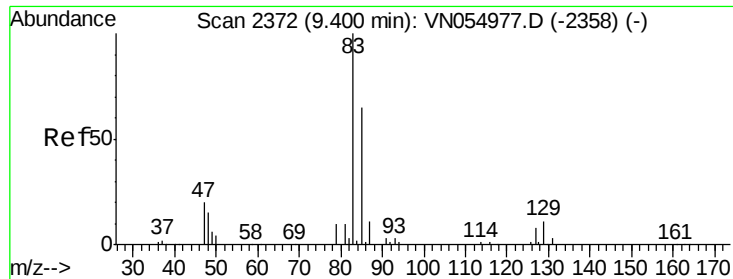
MMDadoda
 4/12/2019 1:41:36 PM



#40
 Dibromomethane
 Concen: 2.882 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. 0.00 min
 Lab File: VN054983.D
 Acq: 11 Apr 2019 18:04

Tgt Ion: 93 Resp: 8321
 Ion Ratio Lower Upper
 93 100
 95 78.0 0.0 160.8
 174 98.2 0.0 206.4





#41

Bromodichloromethane

Concen: 2.545 ug/l

RT: 9.40 min Scan# 2372

Delta R.T. 0.00 min

Lab File: VN054983.D

Acq: 11 Apr 2019 18:04

Instrument :

MSVOA_N

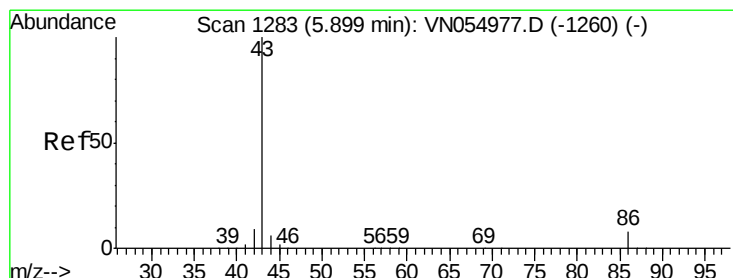
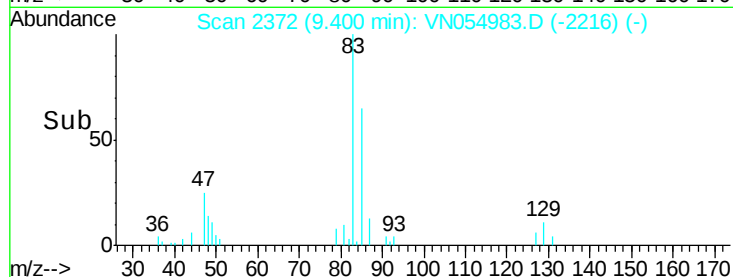
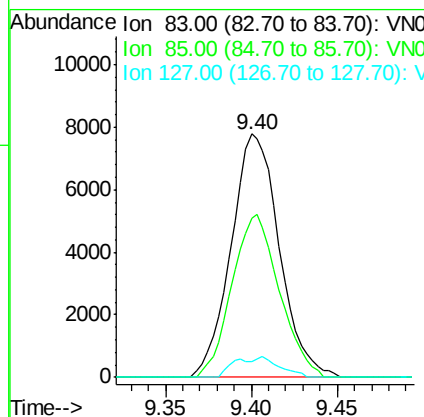
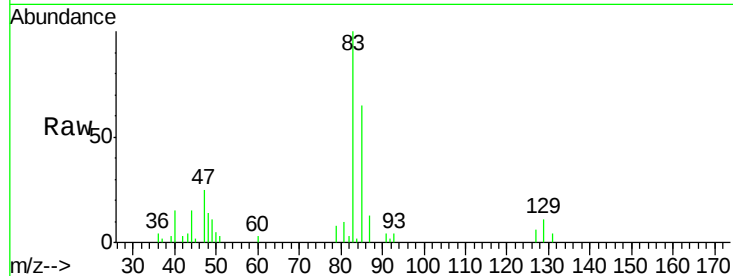
ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion:	83	Resp:	15162
Ion Ratio	Lower	Upper	
83	100		
85	65.2	52.0	78.0
127	6.4	7.2	10.8#

Manual Integrations
APPROVED

MMDadoda
4/12/2019 1:41:36 PM



#42

Vinyl Acetate

Concen: 12.216 ug/l

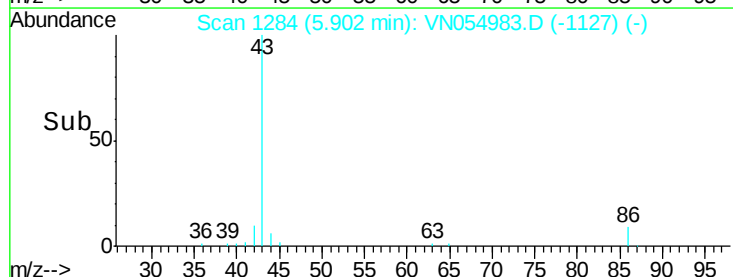
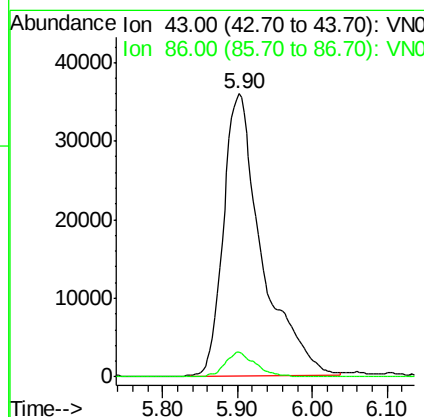
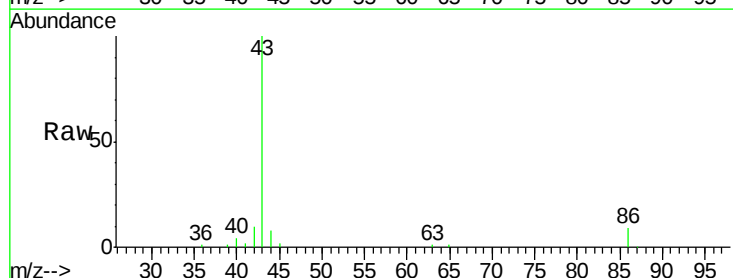
RT: 5.90 min Scan# 1284

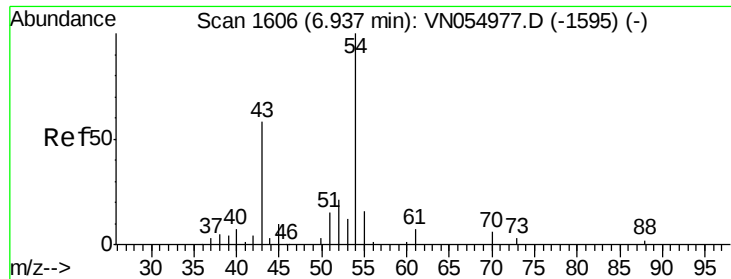
Delta R.T. 0.00 min

Lab File: VN054983.D

Acq: 11 Apr 2019 18:04

Tgt Ion:	43	Resp:	127957
Ion Ratio	Lower	Upper	
43	100		
86	6.9	5.7	8.5





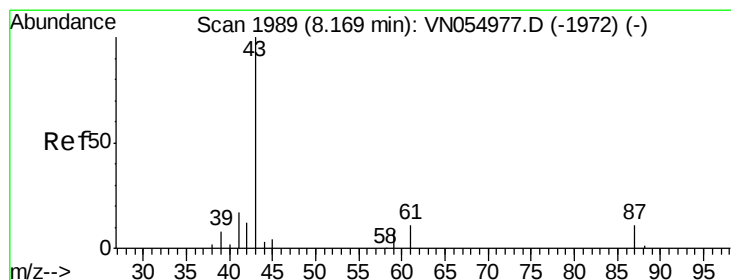
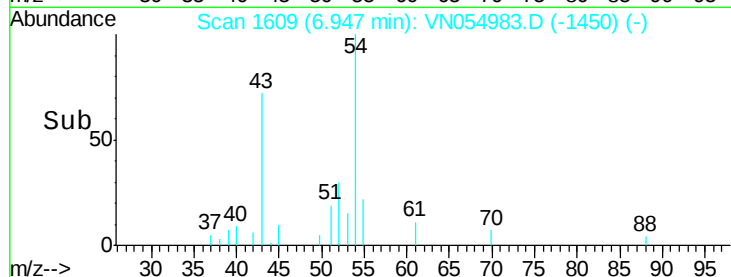
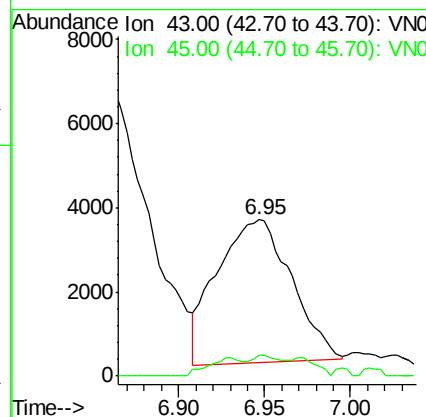
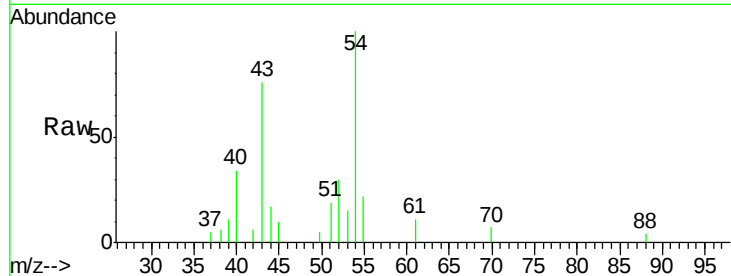
#43
Ethyl Acetate
Concen: 2.430 ug/l
RT: 6.95 min Scan# 1609
Delta R.T. 0.01 min
Lab File: VN054983.D
Acq: 11 Apr 2019 18:04

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

Tot Ion: 43 Resp: 10256
Ion Ratio Lower Upper
43 100
45 1.9 10.6 15.8#

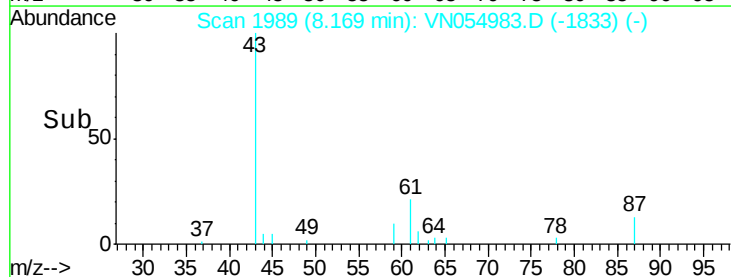
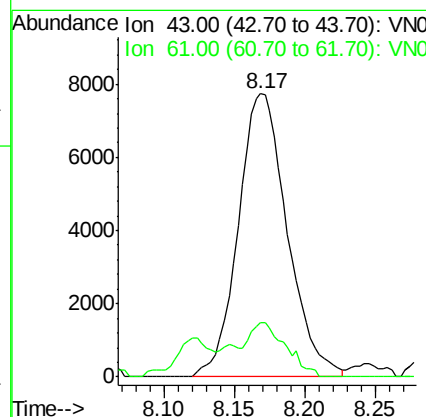
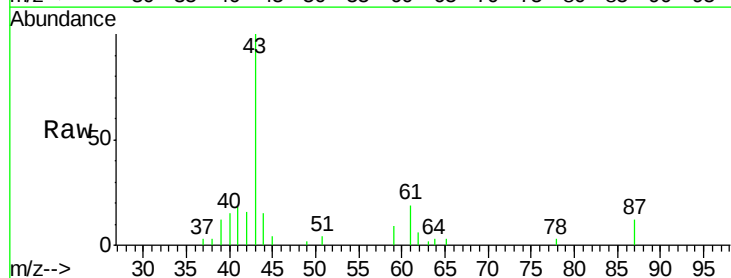
Manual Integrations
APPROVED

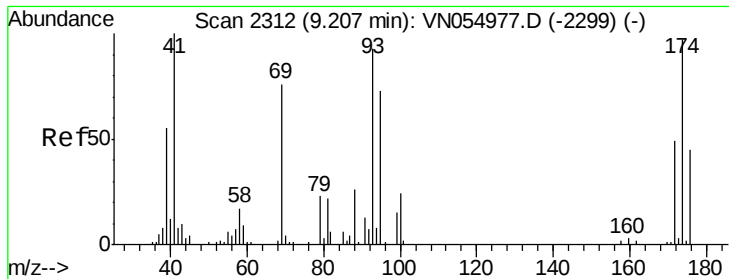
MMDadoda
4/12/2019 1:41:36 PM



#44
Isopropyl Acetate
Concen: 2.628 ug/l
RT: 8.17 min Scan# 1989
Delta R.T. 0.00 min
Lab File: VN054983.D
Acq: 11 Apr 2019 18:04

Tgt Ion: 43 Resp: 18799
Ion Ratio Lower Upper
43 100
61 11.4 14.8 22.2#





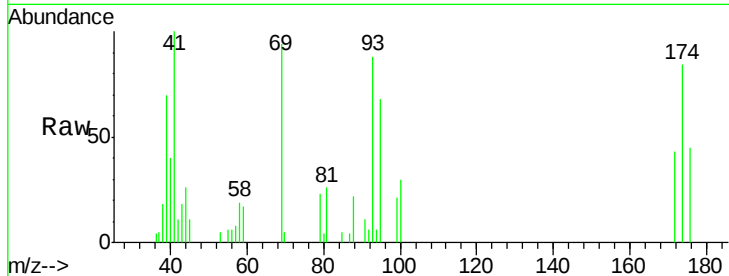
#45
 1,4-Dioxane
 Concen: 48.222 ug/l
 RT: 9.20 min Scan# 2311
 Delta R.T. -0.00 min
 Lab File: VN054983.D
 Acq: 11 Apr 2019 18:04

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

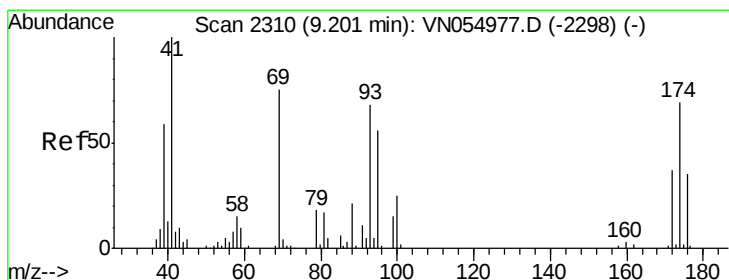
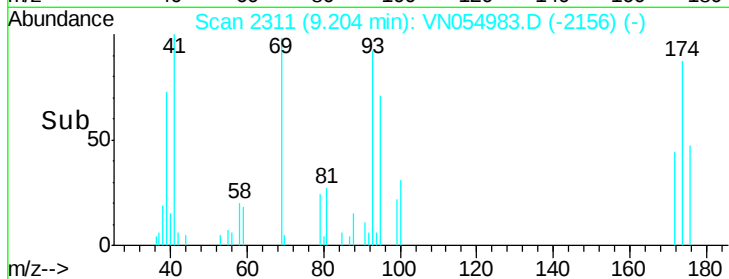
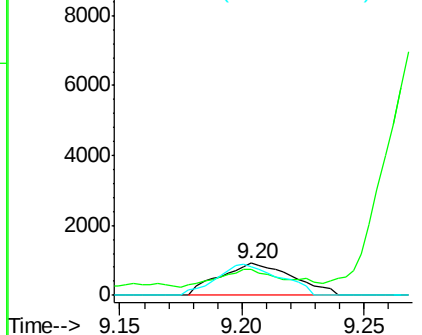
Tot Ion	88	Resp	1911
Ion	Ratio	Lower	Upper
88	100		
43	40.3	34.5	51.7
58	84.1	60.3	90.5

Manual Integrations
 APPROVED

MMDadoda
 4/12/2019 1:41:36 PM



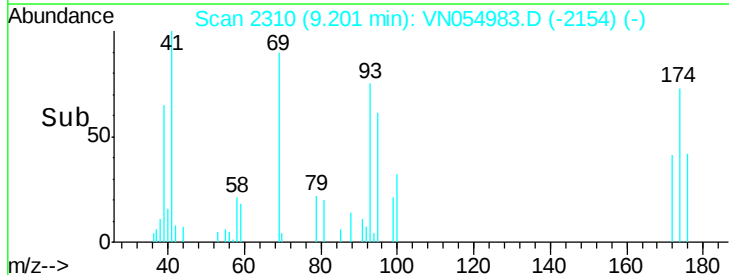
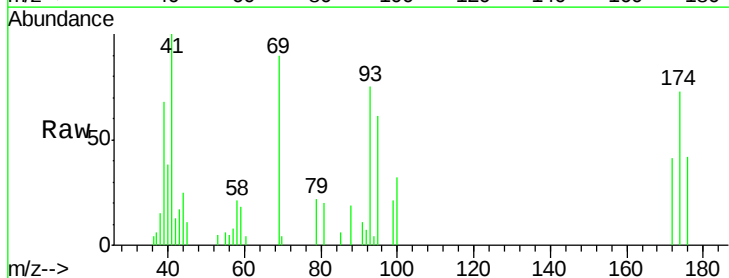
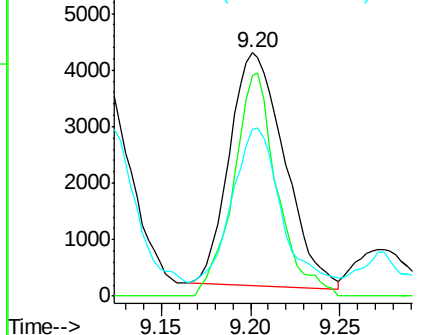
Abundance Ion 88.00 (87.70 to 88.70): VN0
 Ion 43.00 (42.70 to 43.70): VN0
 Ion 58.00 (57.70 to 58.70): VN0

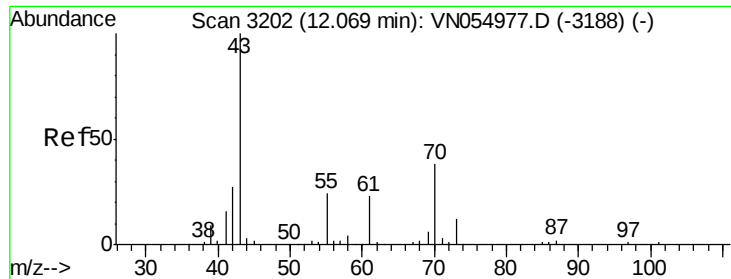


#46
 Methyl methacrylate
 Concen: 2.391 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. 0.00 min
 Lab File: VN054983.D
 Acq: 11 Apr 2019 18:04

Tgt Ion	41	Resp	8847
Ion	Ratio	Lower	Upper
41	100		
69	95.8	37.3	111.9
39	66.5	29.4	88.2

Abundance Ion 41.00 (40.70 to 41.70): VN0
 Ion 69.00 (68.70 to 69.70): VN0
 Ion 39.00 (38.70 to 39.70): VN0





#47

n-amvl Acetate

Concen: 1.933 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN054983.D

Acq: 11 Apr 2019 18:04

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion: 43 Resp: 10183

Ion Ratio Lower Upper

43 100

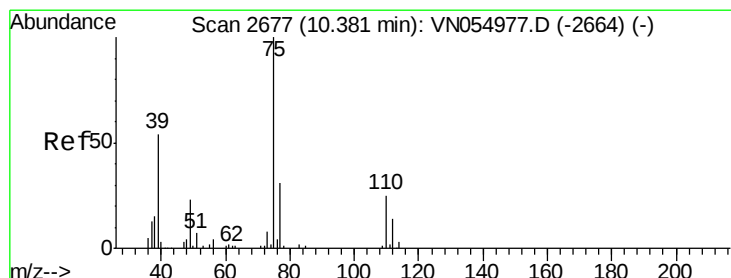
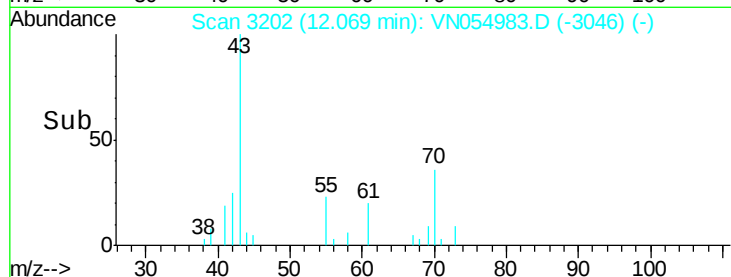
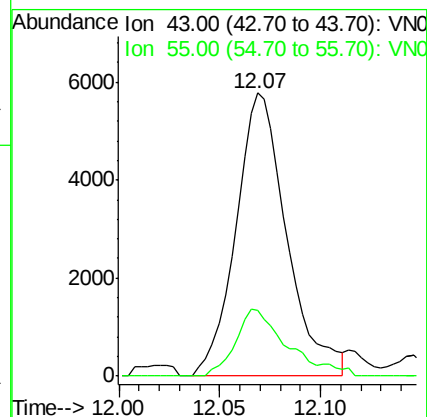
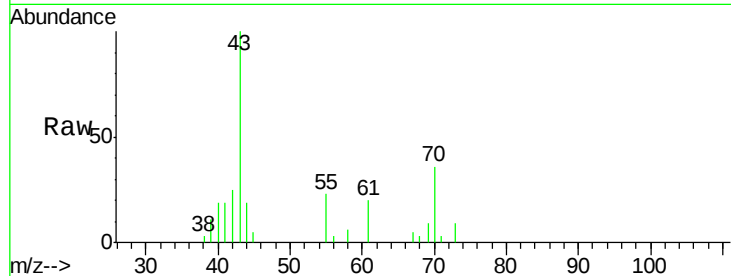
55 22.1 19.8 29.6

Manual Integrations

APPROVED

MMDadoda

4/12/2019 1:41:36 PM



#48

t-1,3-Dichloropropene

Concen: 2.159 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN054983.D

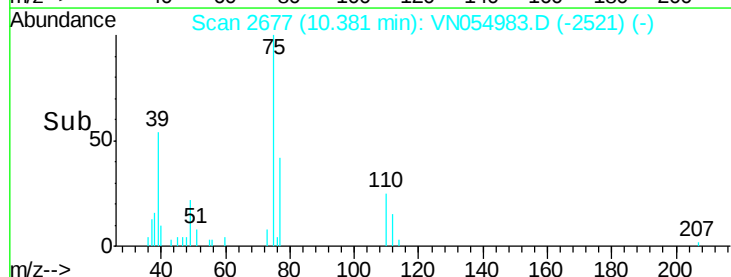
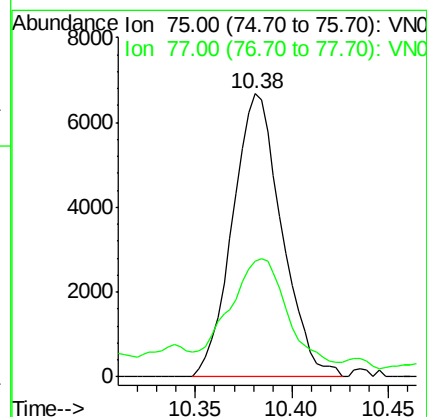
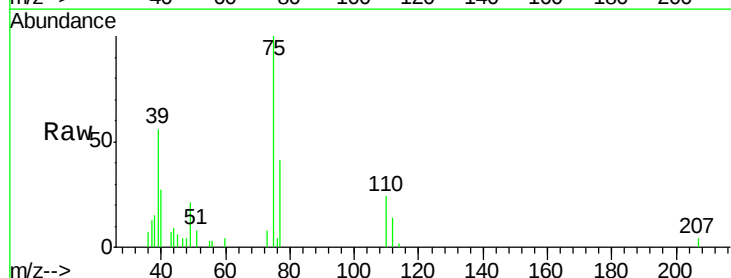
Acq: 11 Apr 2019 18:04

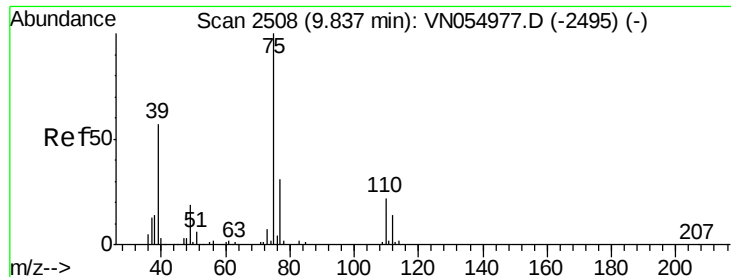
Tgt Ion: 75 Resp: 11815

Ion Ratio Lower Upper

75 100

77 35.3 24.6 37.0





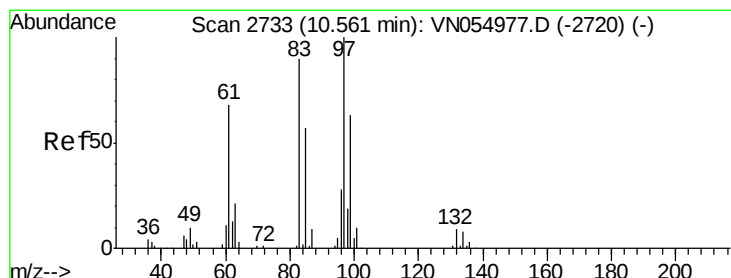
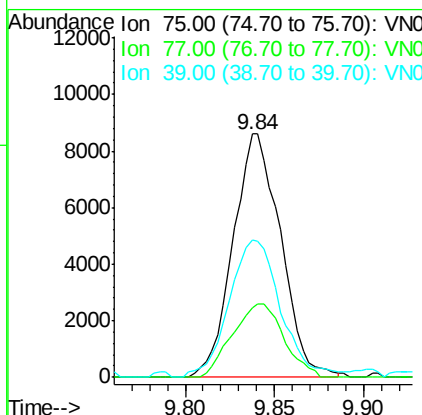
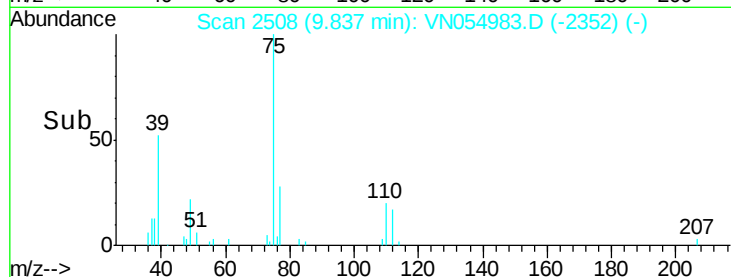
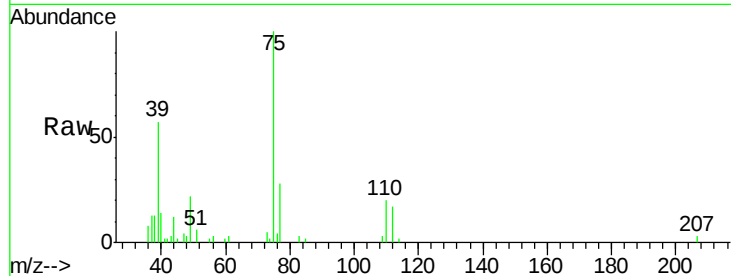
#49
 cis-1,3-Dichloropropene
 Concen: 2.373 ug/l
 RT: 9.84 min Scan# 2508
 Delta R.T. 0.00 min
 Lab File: VN054983.D
 Acq: 11 Apr 2019 18:04

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

Tot Ion:	75	Resp:	16030
Ion Ratio	Lower	Upper	
75	100		
77	28.3	24.7	37.1
39	54.4	45.3	67.9

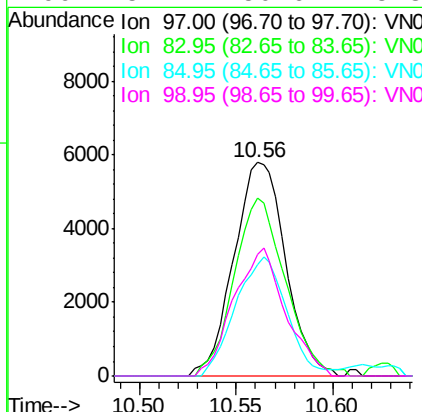
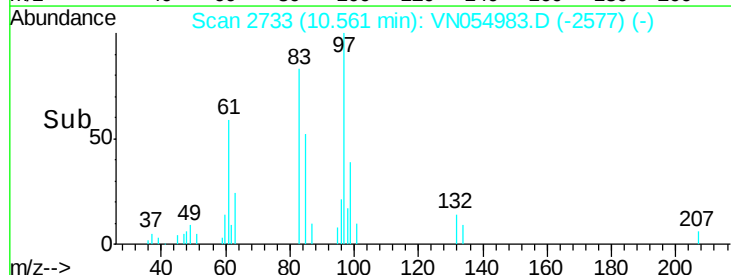
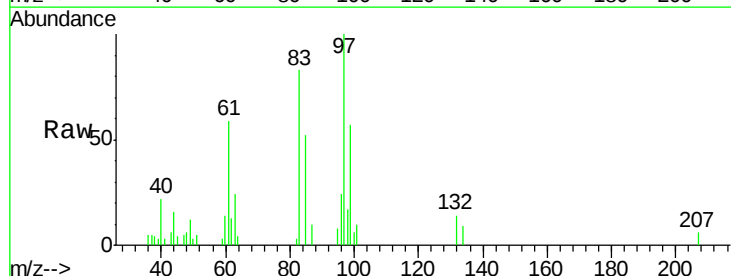
Manual Integrations
 APPROVED

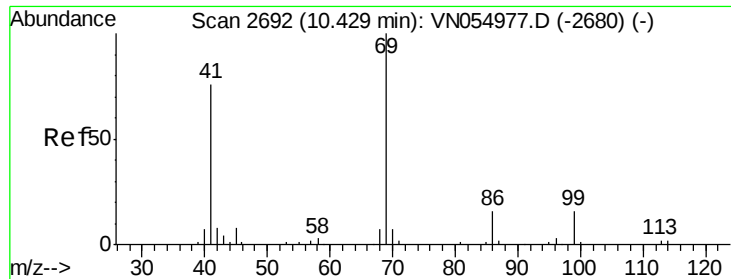
MMDadoda
 4/12/2019 1:41:36 PM



#50
 1,1,2-Trichloroethane
 Concen: 2.743 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN054983.D
 Acq: 11 Apr 2019 18:04

Tgt Ion:	97	Resp:	10756
Ion Ratio	Lower	Upper	
97	100		
83	83.2	72.1	108.1
85	52.1	45.4	68.0
99	57.1	50.6	75.8





#51

Ethyl methacrylate

Concen: 2.486 ug/l

RT: 10.43 min Scan# 2693

Delta R.T. 0.00 min

Lab File: VN054983.D

Acq: 11 Apr 2019 18:04

Instrument :

MSVOA_N

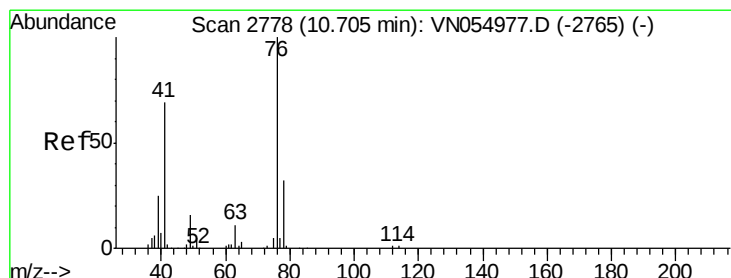
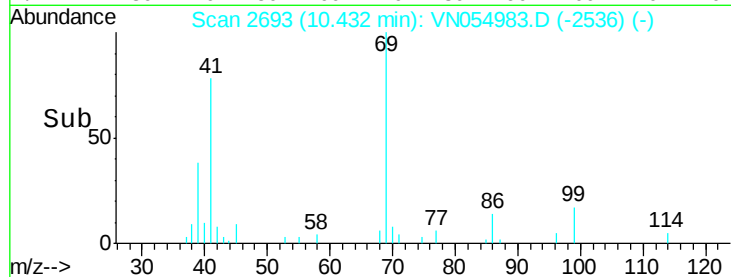
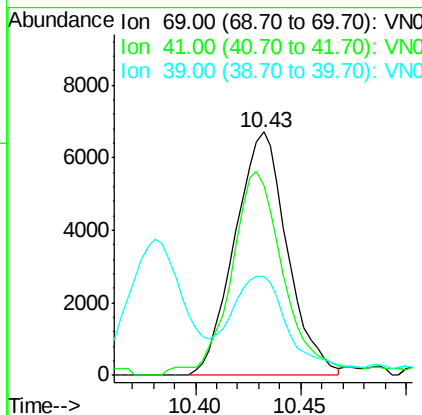
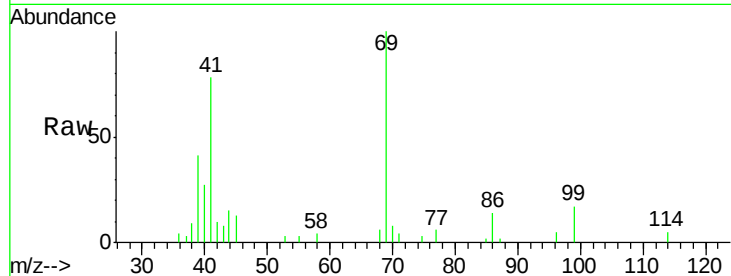
ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion:	69	Resp:	11620
Ion	Ratio	Lower	Upper
69	100		
41	74.6	37.9	113.7
39	36.4	19.8	59.4

Manual Integrations
APPROVED

MMDadoda
4/12/2019 1:41:36 PM



#52

1,3-Dichloropropane

Concen: 2.551 ug/l

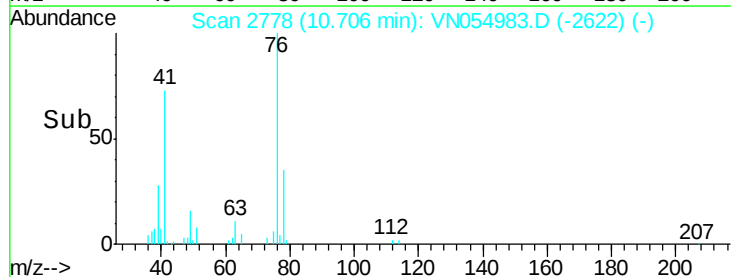
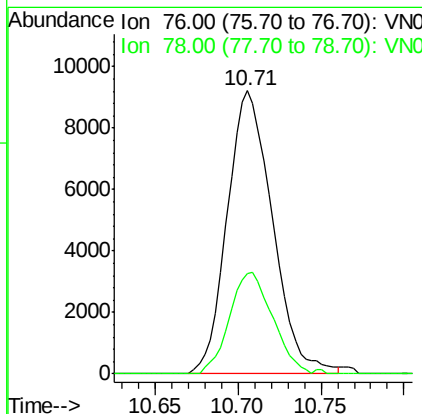
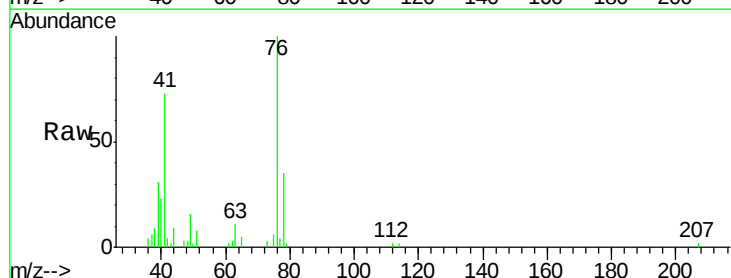
RT: 10.71 min Scan# 2778

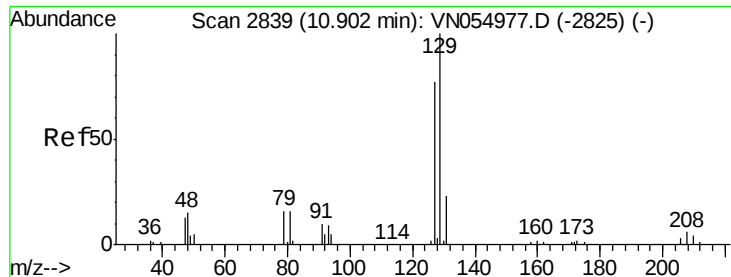
Delta R.T. 0.00 min

Lab File: VN054983.D

Acq: 11 Apr 2019 18:04

Tgt Ion:	76	Resp:	17524
Ion	Ratio	Lower	Upper
76	100		
78	34.1	0.0	64.4





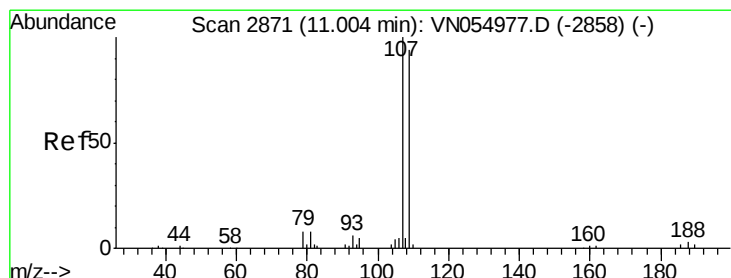
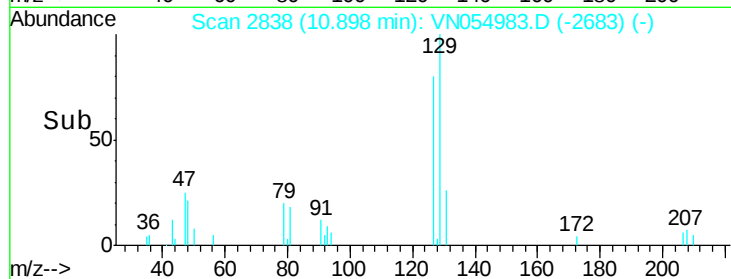
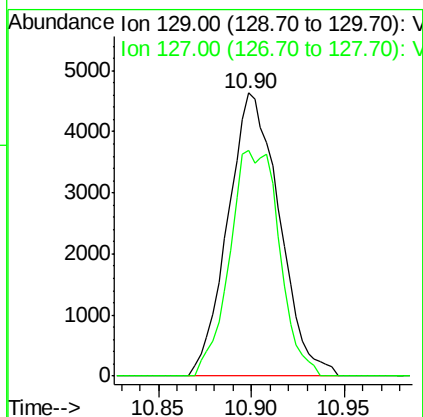
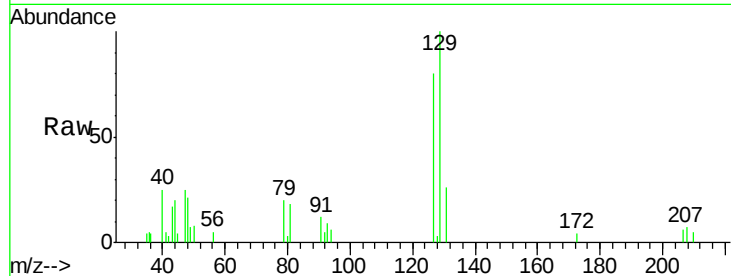
#53
Dibromochloromethane
Concen: 2.209 ug/l
RT: 10.90 min Scan# 2838
Delta R.T. -0.00 min
Lab File: VN054983.D
Acq: 11 Apr 2019 18:04

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

Tot Ion:129 Resp: 8921
Ion Ratio Lower Upper
129 100
127 41.8 37.8 113.3

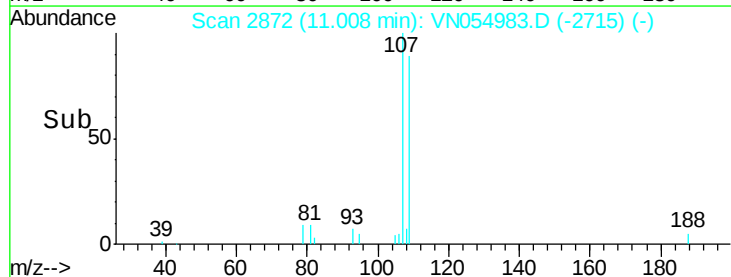
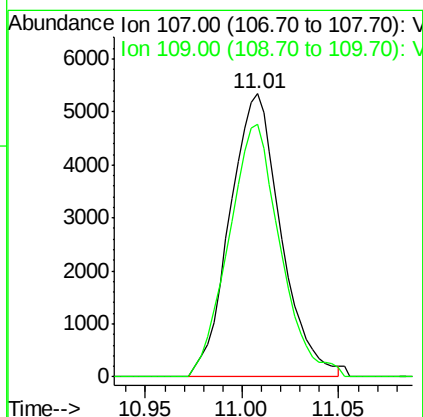
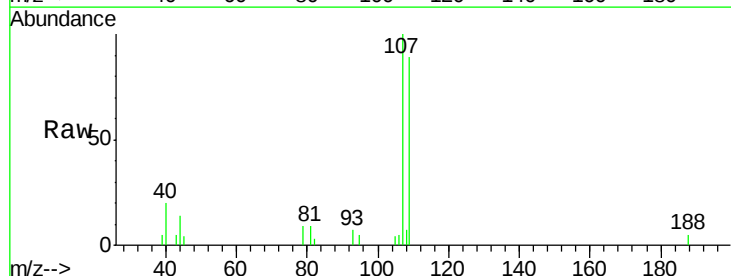
Manual Integrations
APPROVED

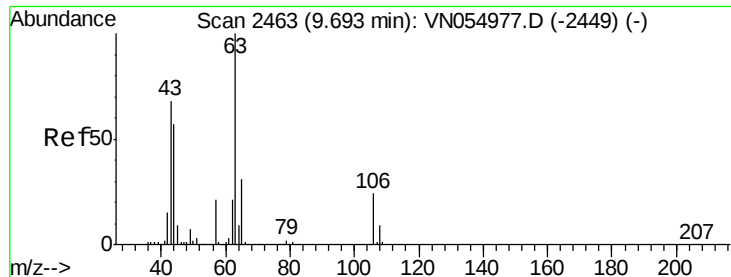
MMDadoda
4/12/2019 1:41:36 PM



#54
1,2-Dibromoethane
Concen: 2.672 ug/l
RT: 11.01 min Scan# 2872
Delta R.T. 0.00 min
Lab File: VN054983.D
Acq: 11 Apr 2019 18:04

Tgt Ion:107 Resp: 9835
Ion Ratio Lower Upper
107 100
109 88.9 76.2 114.2





#55

2-Chloroethyl vinyl ether

Concen: 9.943 ug/l

RT: 9.69 min Scan# 2463

Delta R.T. 0.00 min

Lab File: VN054983.D

Acq: 11 Apr 2019 18:04

Instrument :

MSVOA_N

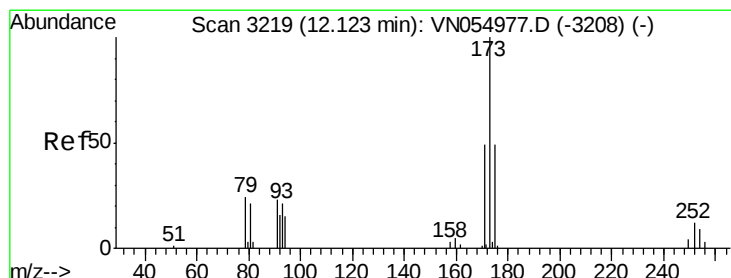
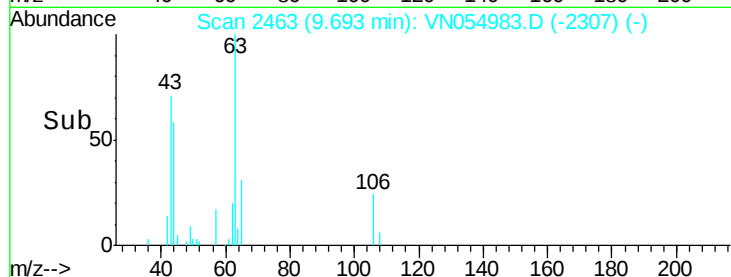
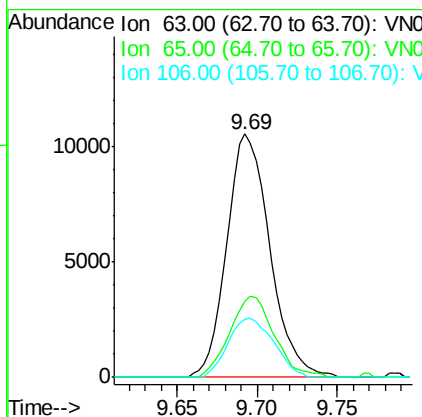
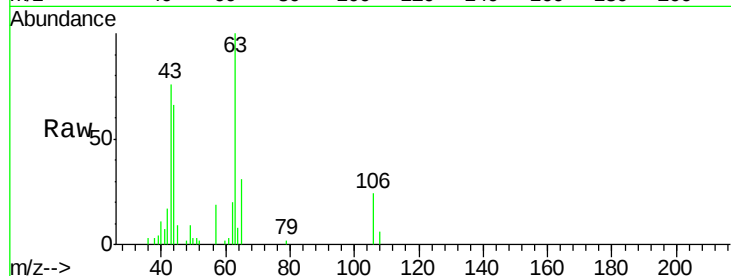
ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion:	63	Resp:	19430
Ion	Ratio	Lower	Upper
63	100		
65	34.3	25.4	38.0
106	25.5	19.8	29.6

Manual Integrations
APPROVED

MMDadoda
4/12/2019 1:41:36 PM



#56

Bromoform

Concen: 2.079 ug/l

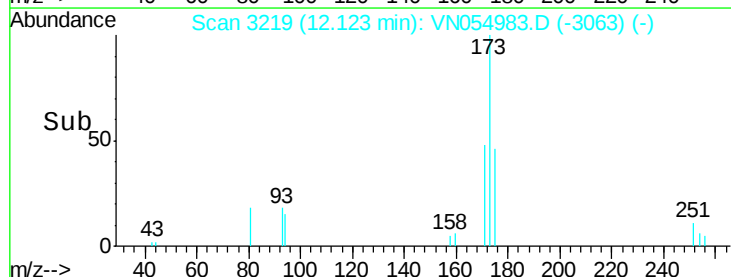
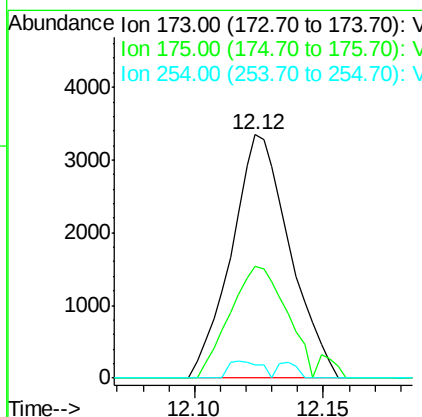
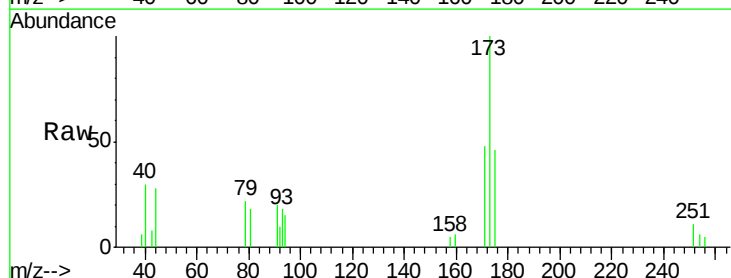
RT: 12.12 min Scan# 3219

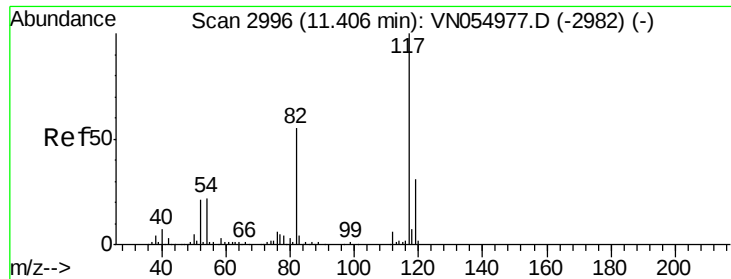
Delta R.T. 0.00 min

Lab File: VN054983.D

Acq: 11 Apr 2019 18:04

Tgt Ion:	173	Resp:	5277
Ion	Ratio	Lower	Upper
173	100		
175	44.5	38.6	57.8
254	3.7	6.8	10.2#





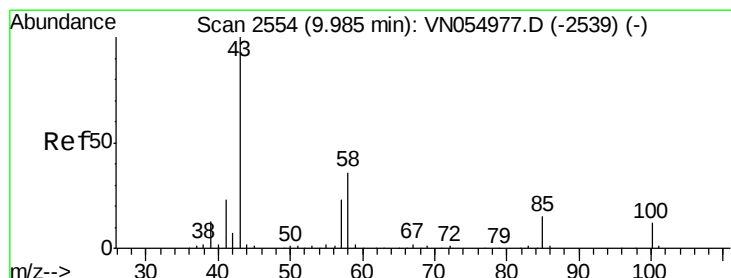
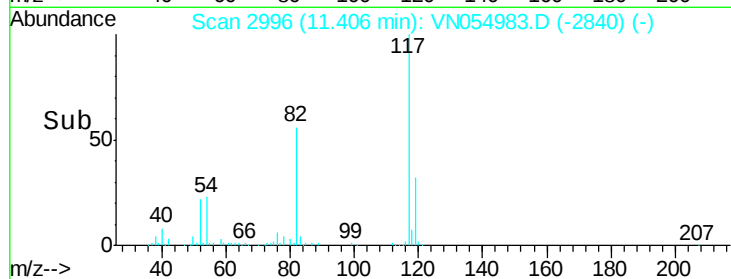
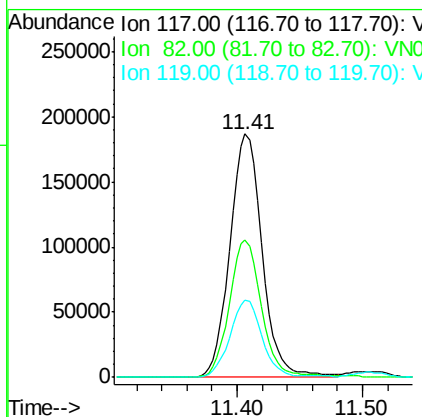
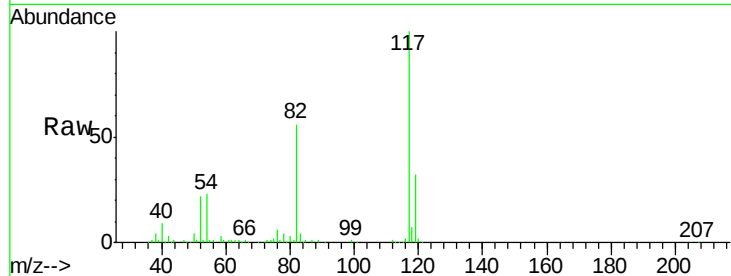
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN054983.D
Acq: 11 Apr 2019 18:04

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

Tot Ion	Ratio	Resp	Lower	Upper
117	100	334565		
82	55.4	45.2	67.8	
119	31.6	25.4	38.2	

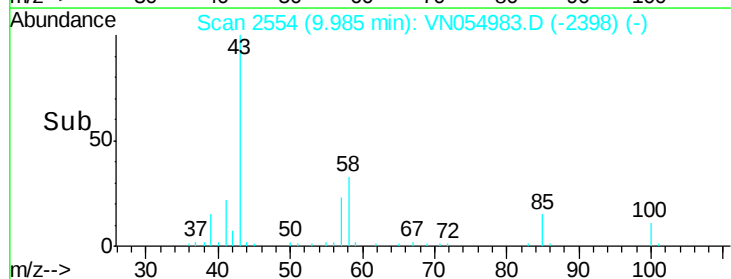
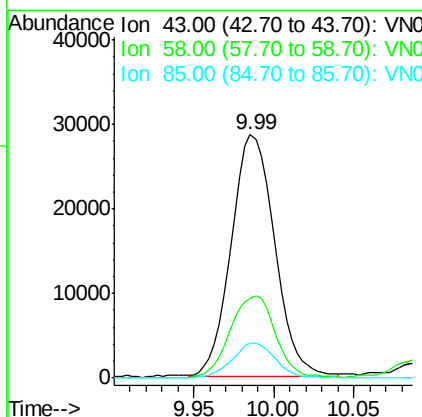
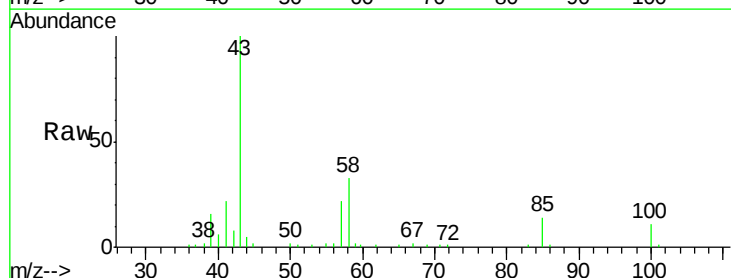
Manual Integrations
APPROVED

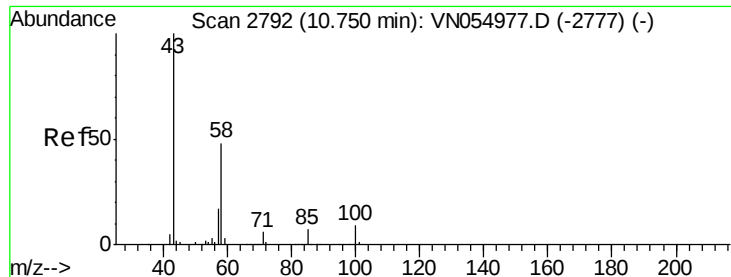
MMDadoda
4/12/2019 1:41:36 PM



#58
4-Methyl-2-Pentanone
Concen: 13.729 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN054983.D
Acq: 11 Apr 2019 18:04

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	52971		
58	35.6	28.7	43.1	
85	14.4	11.8	17.6	





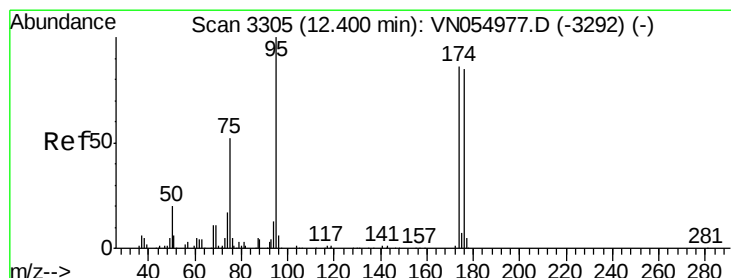
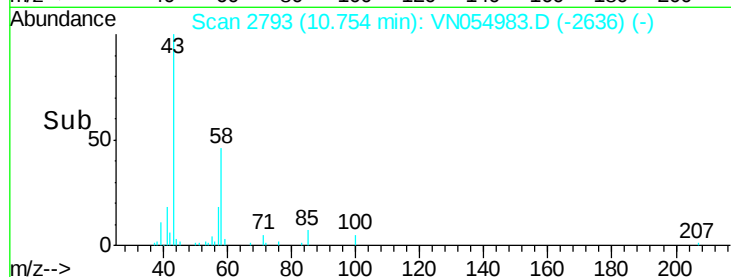
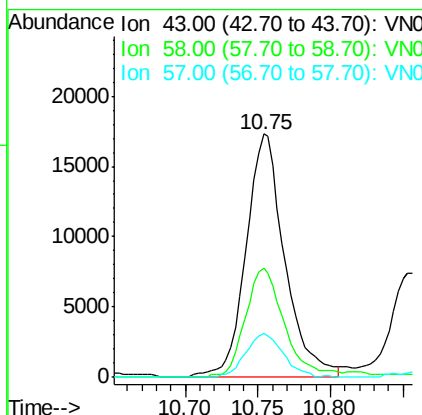
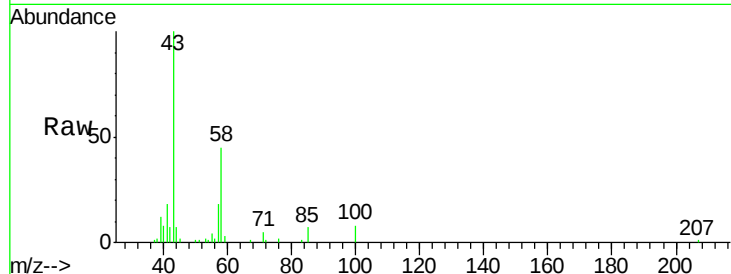
#59
2-Hexanone
Concen: 13.141 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN054983.D
Acq: 11 Apr 2019 18:04

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

Tot Ion	Ratio	Lower	Upper
43	100		
58	41.1	38.8	58.2
57	17.3	13.8	20.6

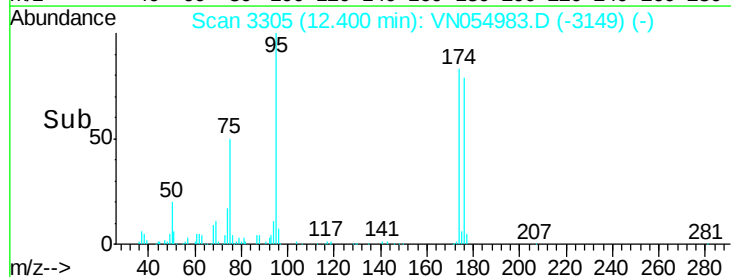
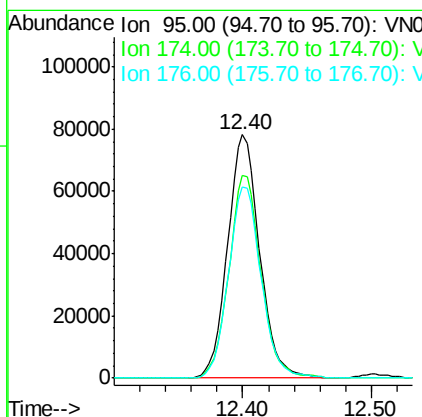
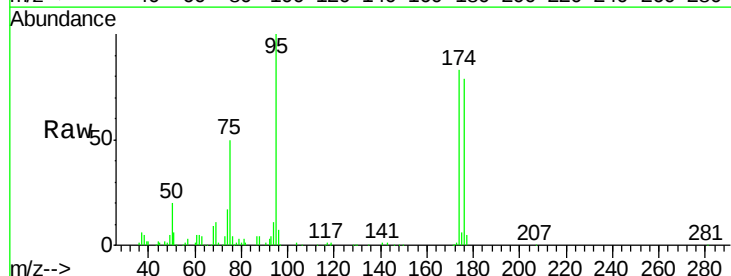
Manual Integrations
APPROVED

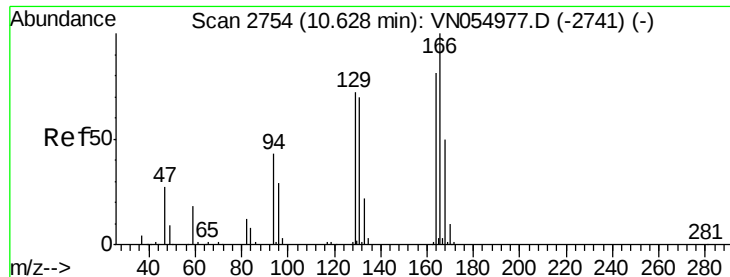
MMDadoda
4/12/2019 1:41:36 PM



#60
4-Bromofluorobenzene
Concen: 13.141 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN054983.D
Acq: 11 Apr 2019 18:04

Tgt Ion	Ratio	Lower	Upper
95	100		
174	83.4	69.4	104.2
176	80.1	67.4	101.2





#61

Tetrachloroethene

Concen: 2.721 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. 0.00 min

Lab File: VN054983.D

Acq: 11 Apr 2019 18:04

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion:164 Resp: 11849

Ion Ratio Lower Upper

164 100

166 132.1 99.0 148.4

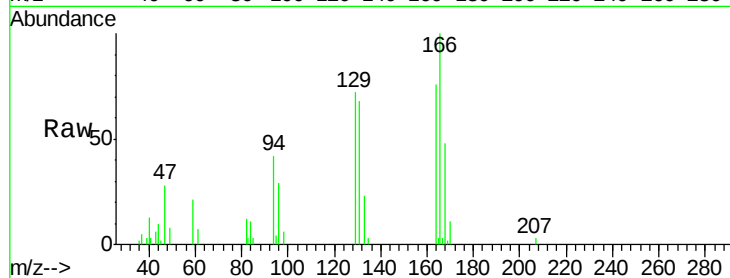
129 94.7 71.4 107.0

131 90.4 68.8 103.2

Manual Integrations
APPROVED

MMDadoda

4/12/2019 1:41:36 PM

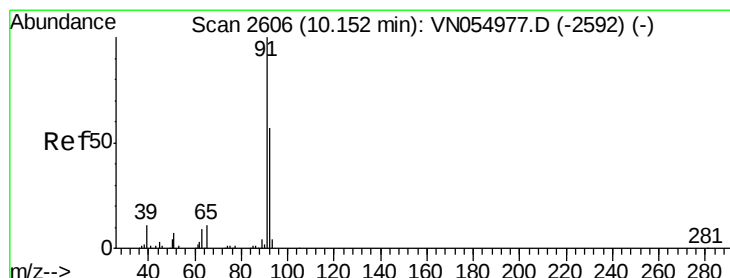
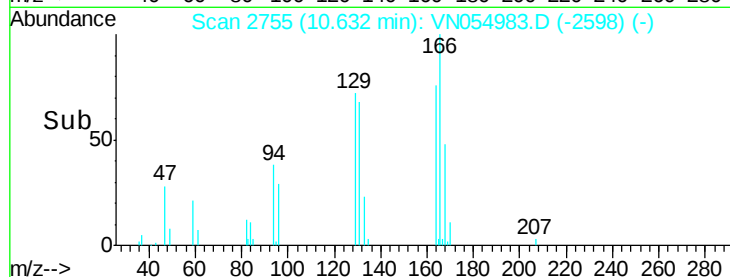
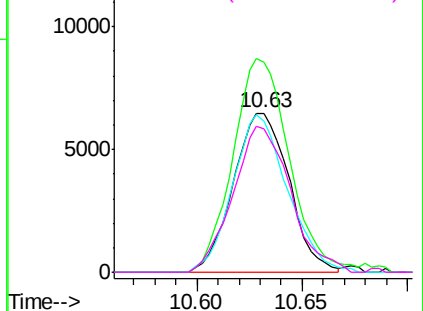


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#62

Toluene

Concen: 2.681 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. 0.00 min

Lab File: VN054983.D

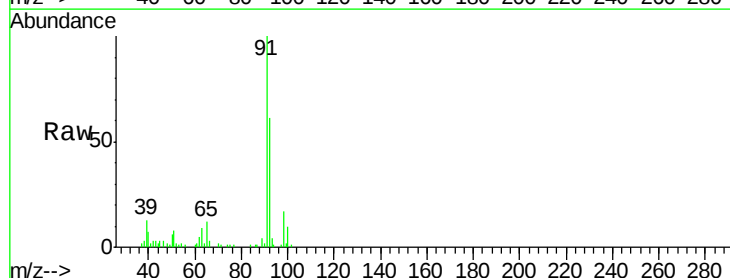
Acq: 11 Apr 2019 18:04

Tgt Ion: 91 Resp: 49422

Ion Ratio Lower Upper

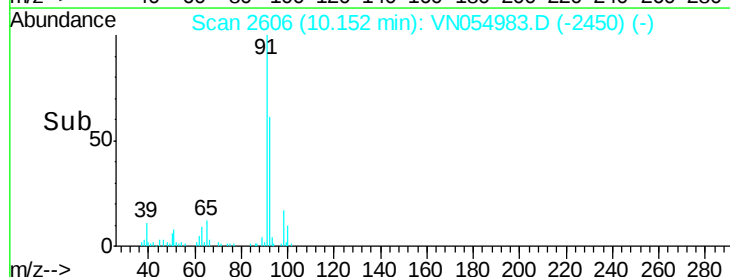
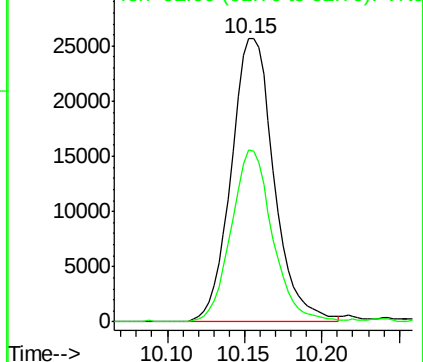
91 100

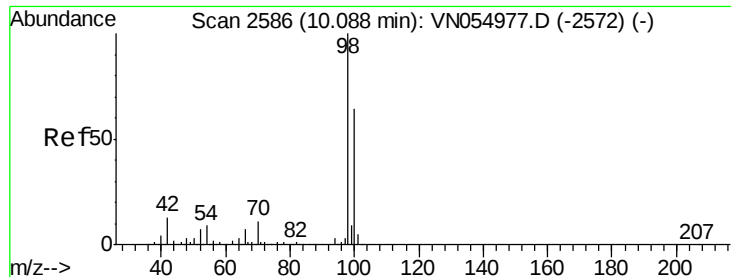
92 58.5 44.8 67.2



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V





#63

Toluene-d8

Concen: 2.681 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN054983.D

Acq: 11 Apr 2019 18:04

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion: 98 Resp: 499603

Ion Ratio Lower Upper

98 100

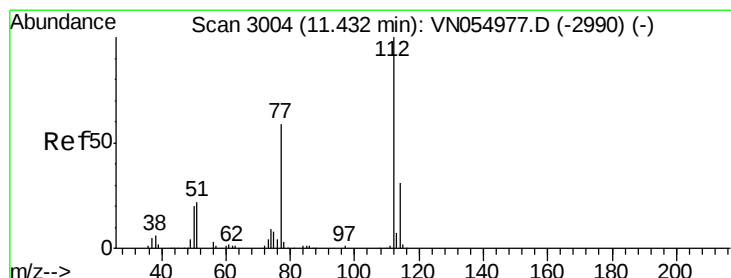
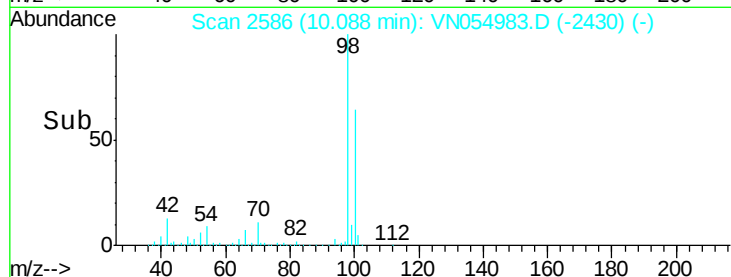
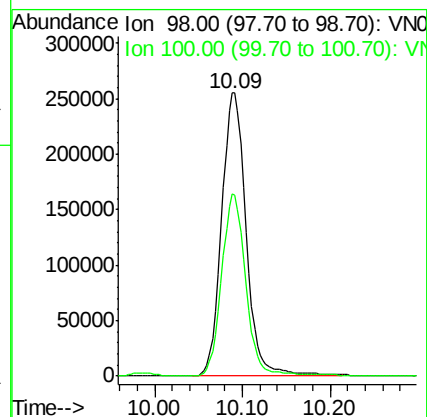
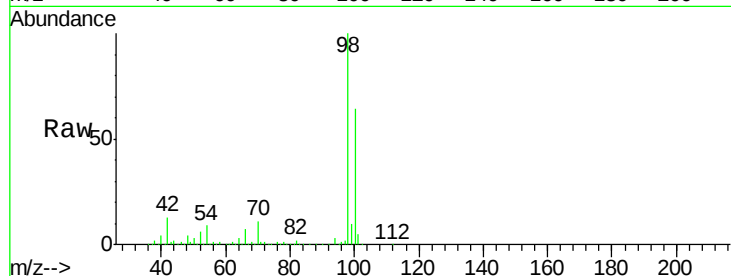
100 63.0 51.1 76.7

Manual Integrations

APPROVED

MMDadoda

4/12/2019 1:41:36 PM



#64

Chlorobenzene

Concen: 2.523 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN054983.D

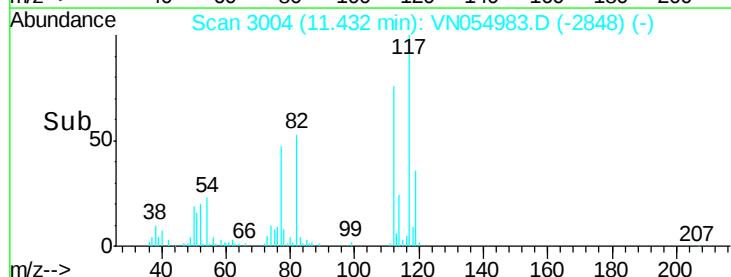
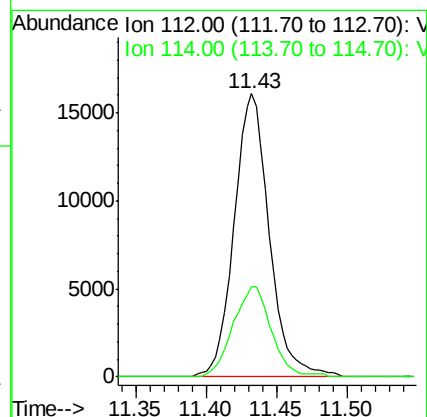
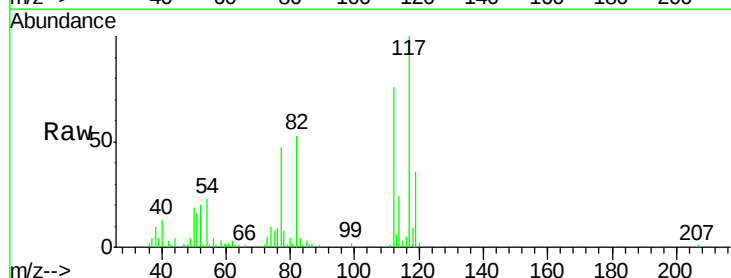
Acq: 11 Apr 2019 18:04

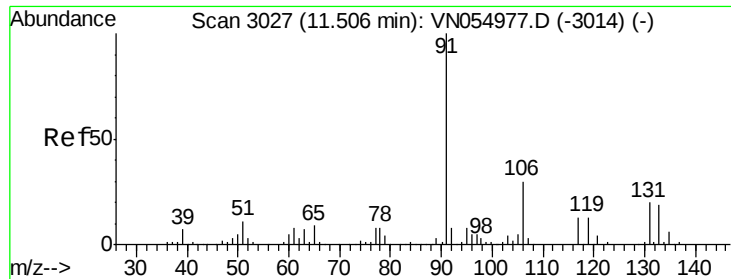
Tgt Ion: 112 Resp: 28075

Ion Ratio Lower Upper

112 100

114 31.7 25.1 37.7





#65

1,1,1,2-Tetrachloroethane

Concen: 2.691 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN054983.D

Acq: 11 Apr 2019 18:04

Instrument :

MSVOA_N

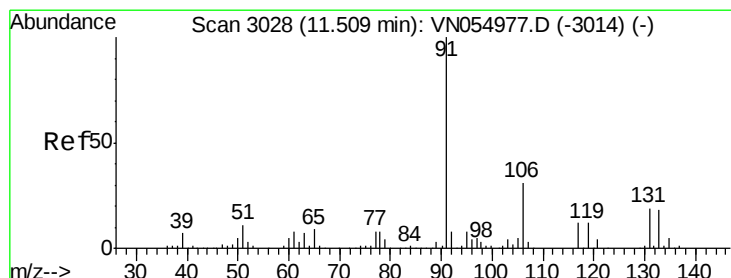
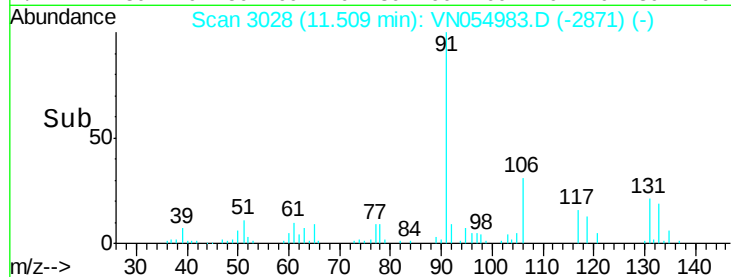
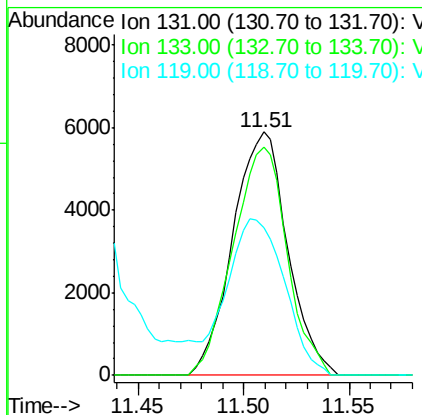
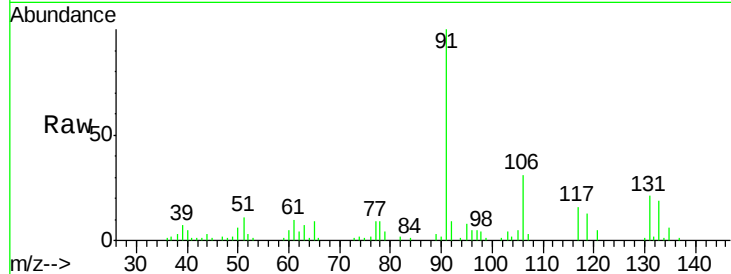
ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion	Ratio	Resp	Lower	Upper
131	100	10652		
133	92.5	0.0	187.8	
119	67.2	0.0	131.4	

Manual Integrations
APPROVED

MMDadoda
4/12/2019 1:41:36 PM



#66

Ethyl Benzene

Concen: 2.535 ug/l

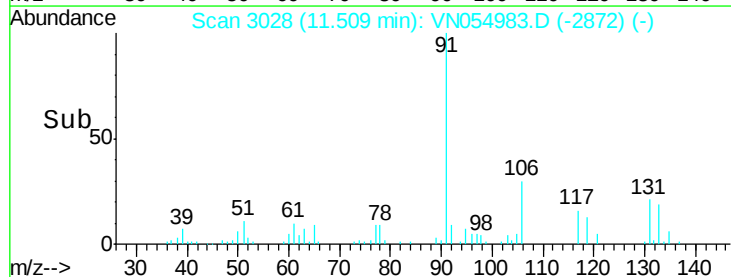
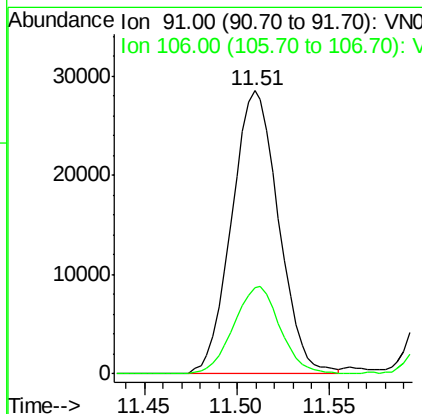
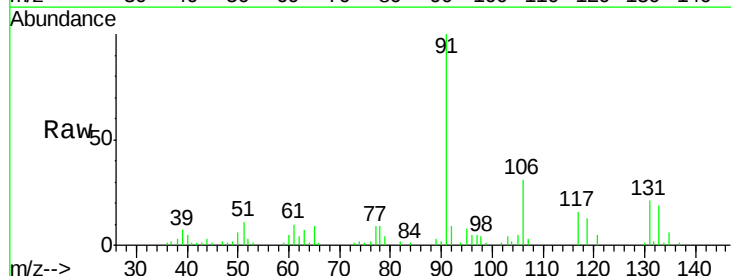
RT: 11.51 min Scan# 3028

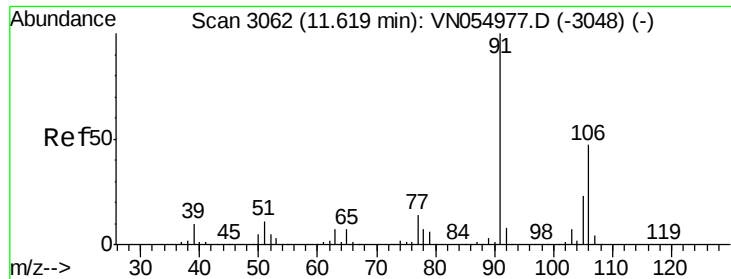
Delta R.T. 0.00 min

Lab File: VN054983.D

Acq: 11 Apr 2019 18:04

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	50088		
106	30.5	24.6	36.8	





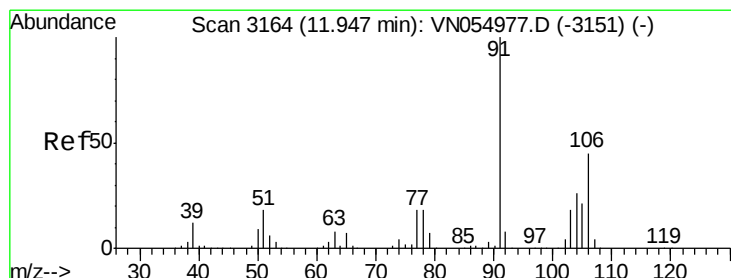
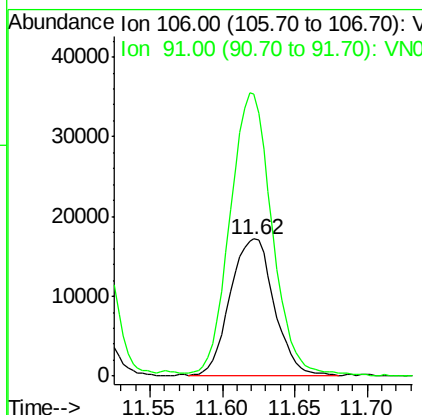
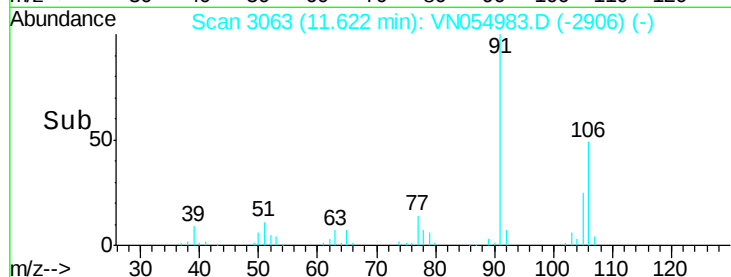
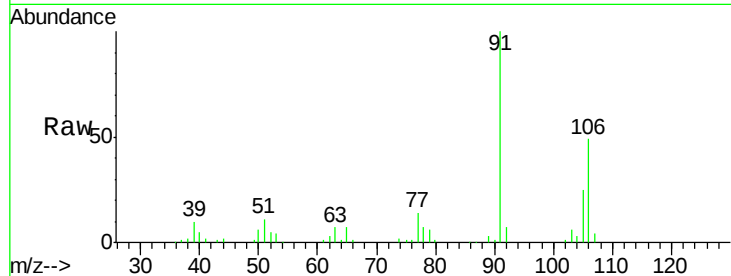
#67
m/p-Xvlenes
Concen: 4.952 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN054983.D
Acq: 11 Apr 2019 18:04

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

Tot Ion:106 Resp: 36374
Ion Ratio Lower Upper
106 100
91 198.2 167.4 251.2

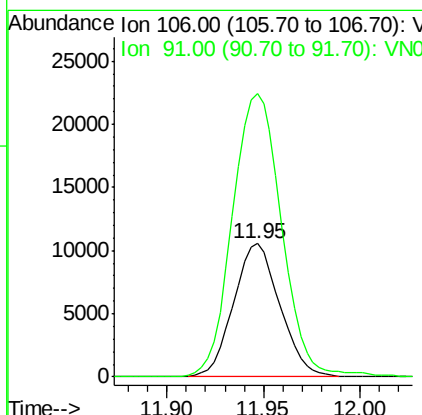
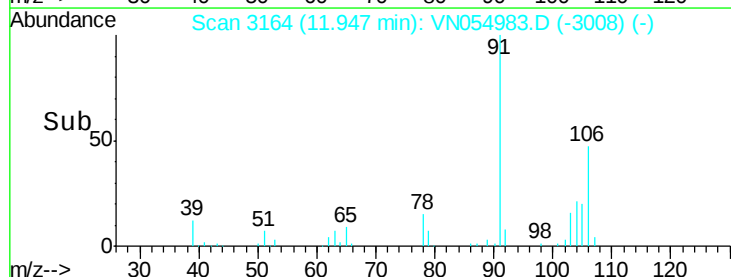
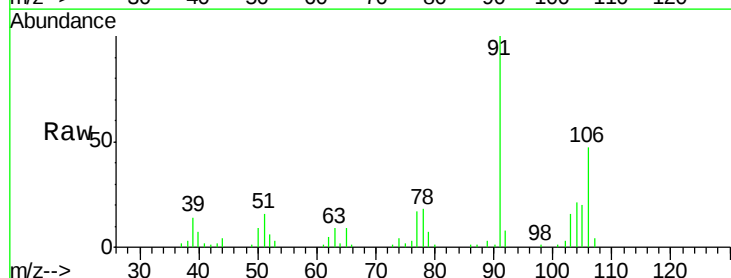
Manual Integrations
APPROVED

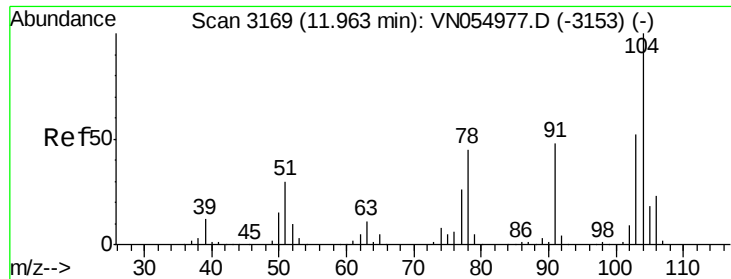
MMDadoda
4/12/2019 1:41:36 PM



#68
o-Xylene
Concen: 2.425 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN054983.D
Acq: 11 Apr 2019 18:04

Tgt Ion:106 Resp: 17600
Ion Ratio Lower Upper
106 100
91 225.9 110.3 330.8





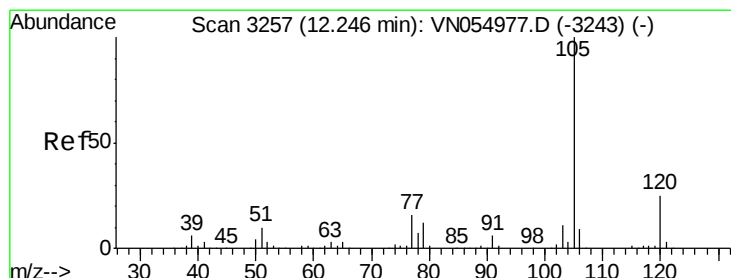
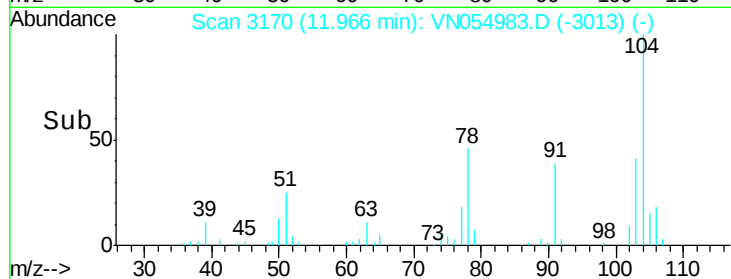
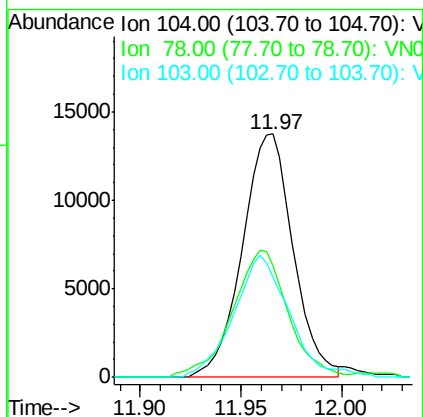
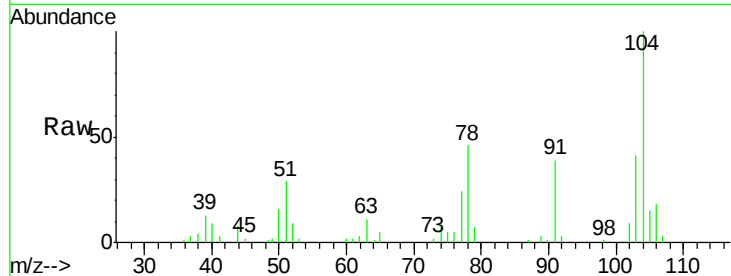
#69
Stvrene
Concen: 2.146 ug/l
RT: 11.97 min Scan# 3170
Delta R.T. 0.00 min
Lab File: VN054983.D
Acq: 11 Apr 2019 18:04

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

Tot Ion	Ratio	Lower	Upper
104	100		
78	57.2	41.2	61.8
103	53.3	44.6	67.0

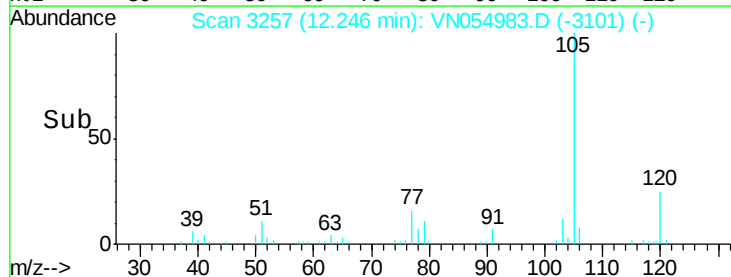
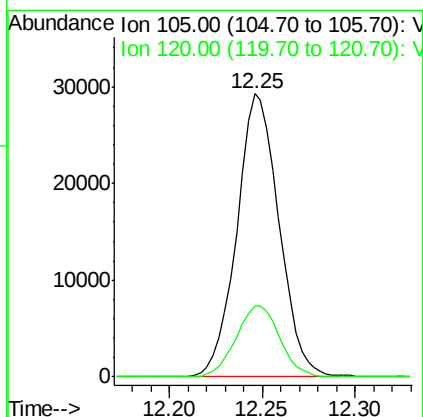
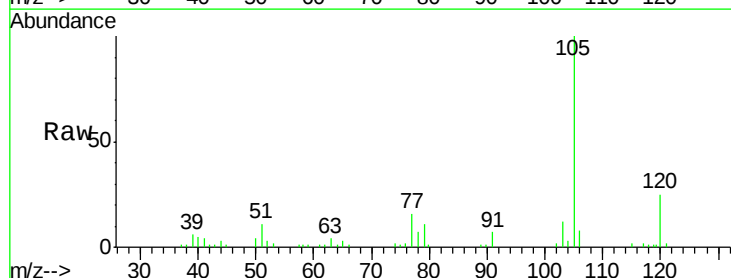
Manual Integrations
APPROVED

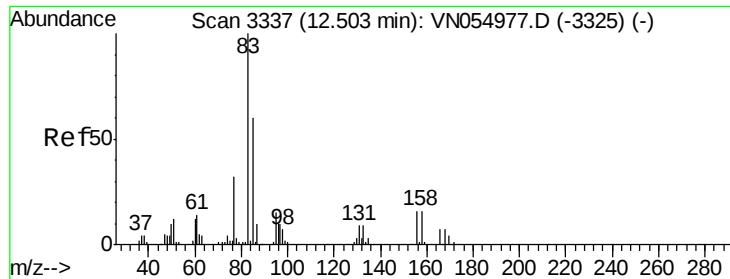
MMDadoda
4/12/2019 1:41:36 PM



#70
Isopropylbenzene
Concen: 2.377 ug/l
RT: 12.25 min Scan# 3257
Delta R.T. 0.00 min
Lab File: VN054983.D
Acq: 11 Apr 2019 18:04

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.8	18.3	33.9





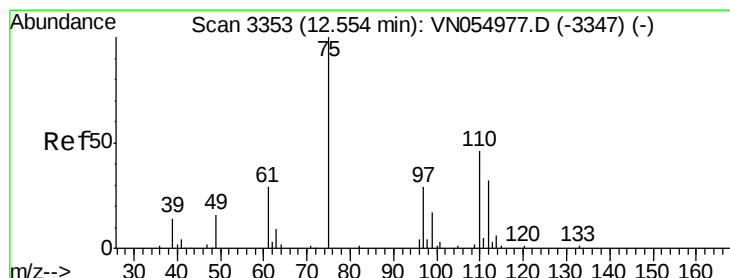
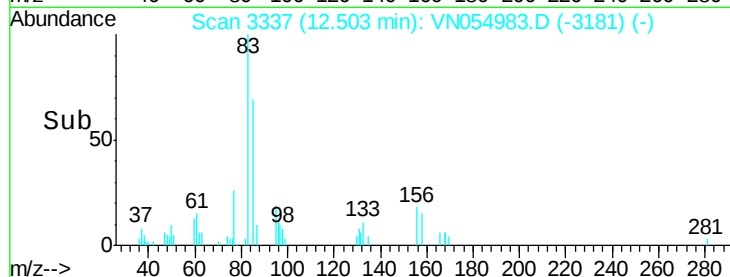
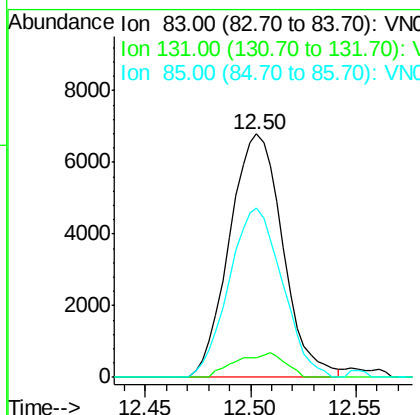
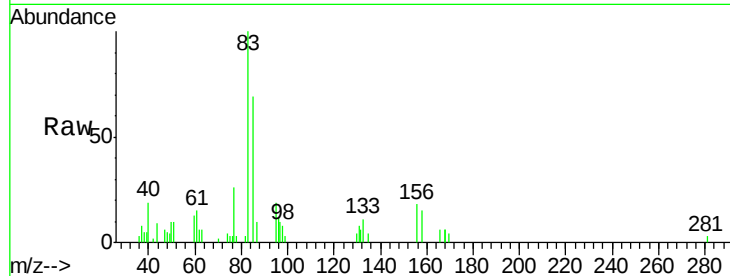
#71
 1,1,2,2-Tetrachloroethane
 Concen: 2.684 ug/l
 RT: 12.50 min Scan# 3337
 Delta R.T. 0.00 min
 Lab File: VN054983.D
 Acq: 11 Apr 2019 18:04

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

Tot Ion	83	Resp	11913
Ion Ratio	Lower	Upper	
83	100		
131	5.4	4.6	13.8
85	69.7	30.9	92.5

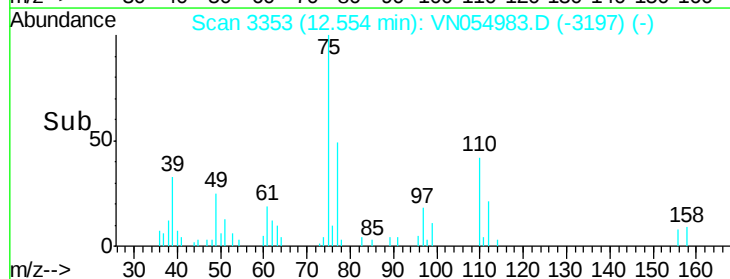
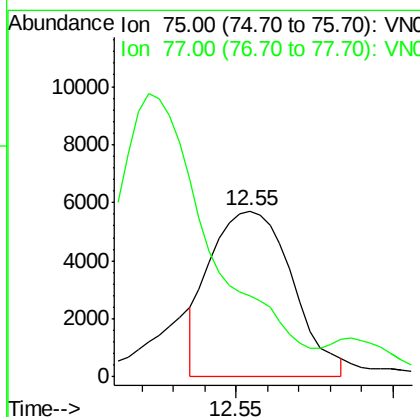
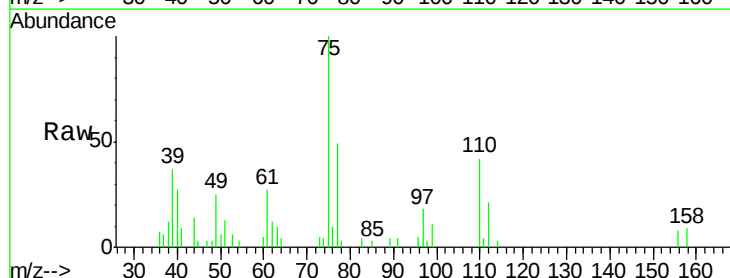
Manual Integrations
 APPROVED

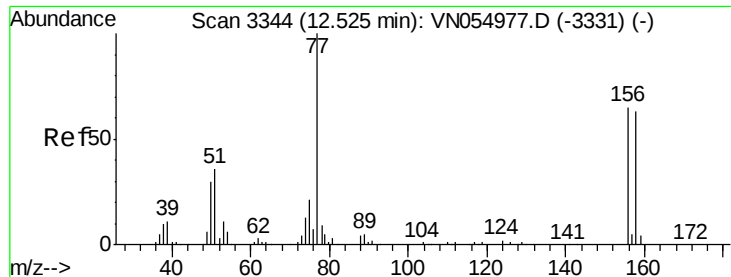
MMDadoda
 4/12/2019 1:41:36 PM



#72
 1,2,3-Trichloropropane
 Concen: 2.844 ug/l m
 RT: 12.55 min Scan# 3353
 Delta R.T. 0.00 min
 Lab File: VN054983.D
 Acq: 11 Apr 2019 18:04

Tgt Ion	75	Resp	10426
Ion Ratio	Lower	Upper	
75	100		
77	205.7	0.0	466.6





#73

Bromobenzene

Concen: 2.294 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN054983.D

Acq: 11 Apr 2019 18:04

Instrument :

MSVOA_N

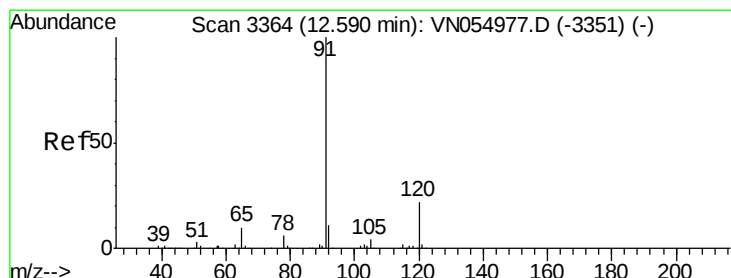
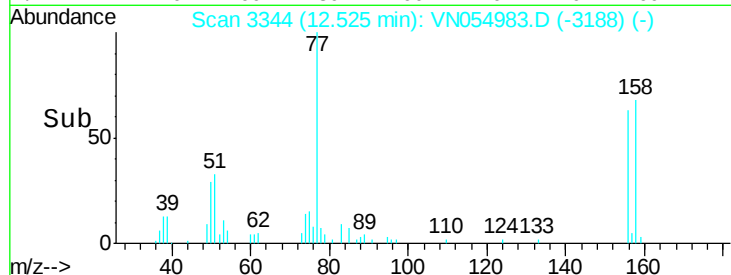
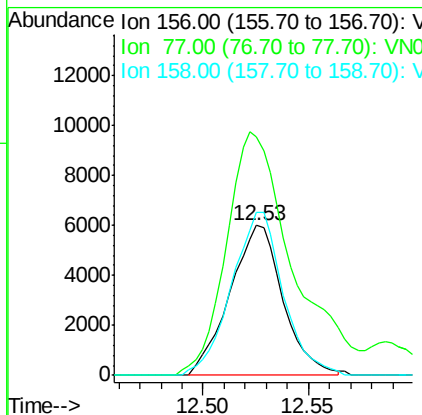
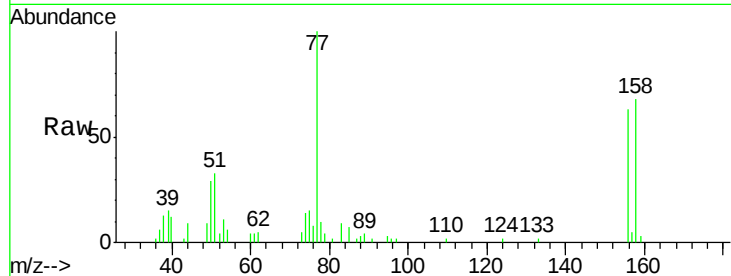
ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion:	156	Resp:	10523
Ion	Ratio	Lower	Upper
156	100		
77	203.8	0.0	383.2
158	106.0	0.0	193.8

Manual Integrations
APPROVED

MMDadoda
4/12/2019 1:41:36 PM



#74

n-propylbenzene

Concen: 2.218 ug/l

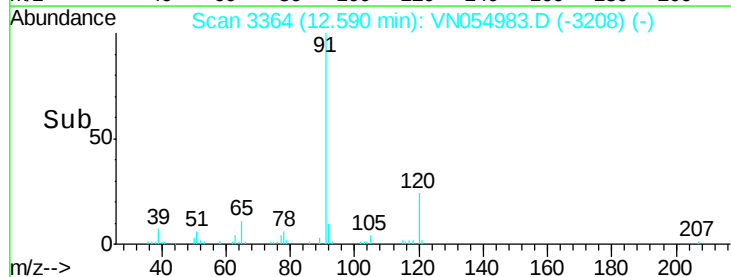
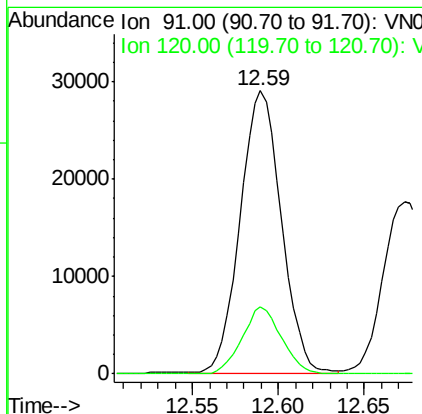
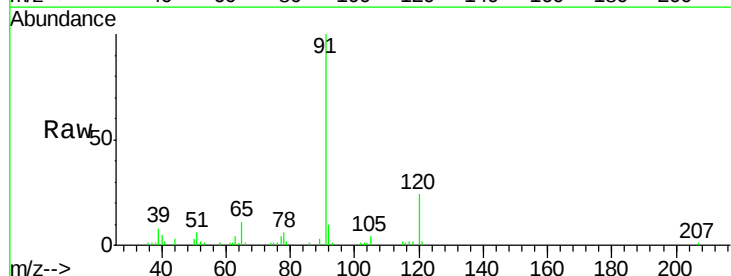
RT: 12.59 min Scan# 3364

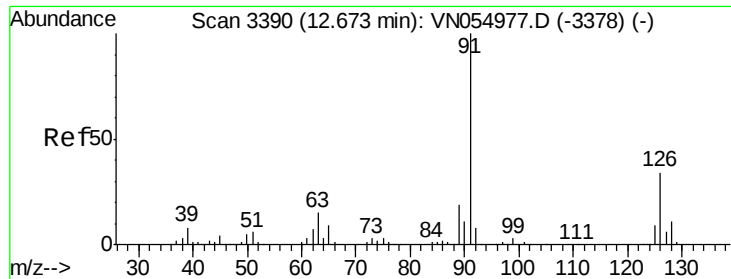
Delta R.T. 0.00 min

Lab File: VN054983.D

Acq: 11 Apr 2019 18:04

Tgt Ion:	91	Resp:	48201
Ion	Ratio	Lower	Upper
91	100		
120	22.7	0.0	44.4





#75

2-Chlorotoluene

Concen: 2.418 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN054983.D

Acq: 11 Apr 2019 18:04

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion: 91 Resp: 31690

Ion Ratio Lower Upper

91 100

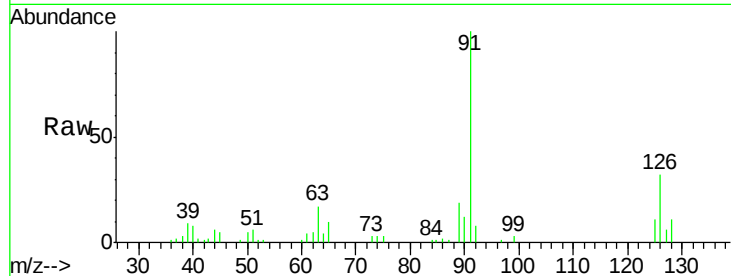
126 30.8 0.0 67.4

Manual Integrations

APPROVED

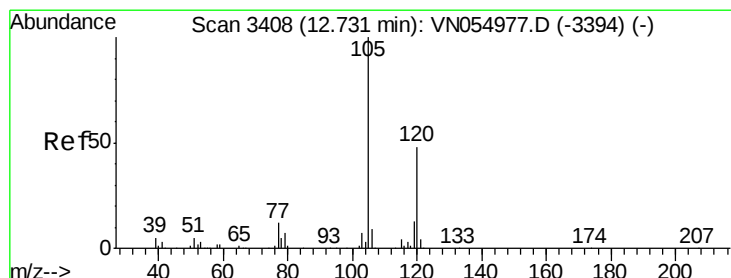
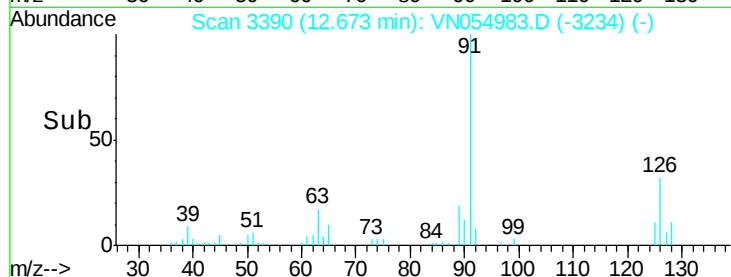
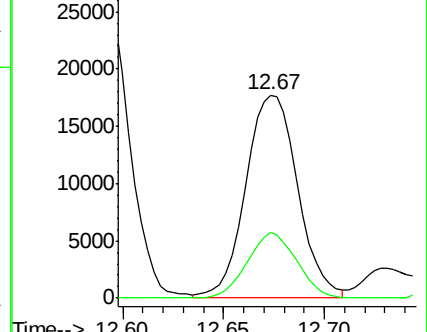
MMDadoda

4/12/2019 1:41:36 PM



Abundance Ion 91.00 (90.70 to 91.70): VN054977.D (-3378) (-)

Ion 126.00 (125.70 to 126.70): VN054977.D (-3378) (-)



#76

1,3,5-Trimethylbenzene

Concen: 2.386 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN054983.D

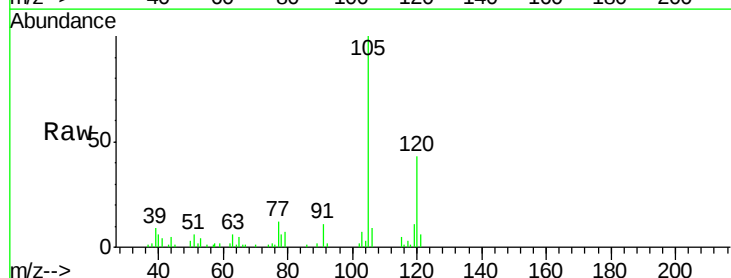
Acq: 11 Apr 2019 18:04

Tgt Ion: 105 Resp: 37437

Ion Ratio Lower Upper

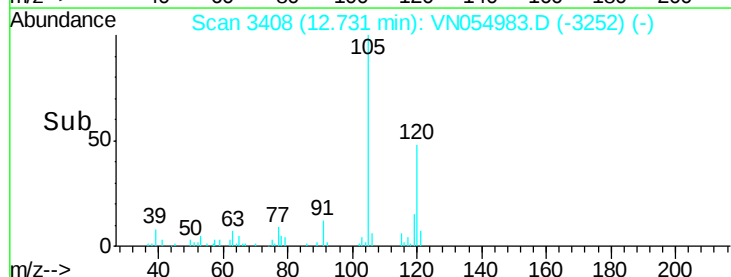
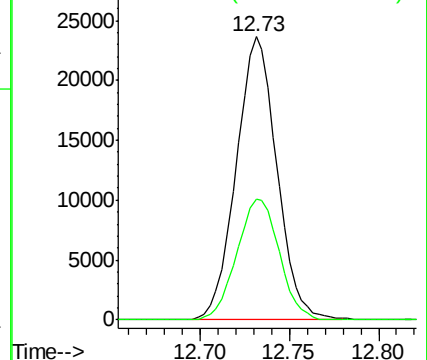
105 100

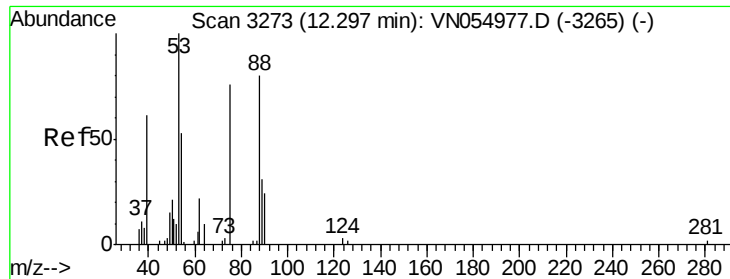
120 44.3 0.0 94.8



Abundance Ion 105.00 (104.70 to 105.70): VN054977.D (-3394) (-)

Ion 120.00 (119.70 to 120.70): VN054977.D (-3394) (-)





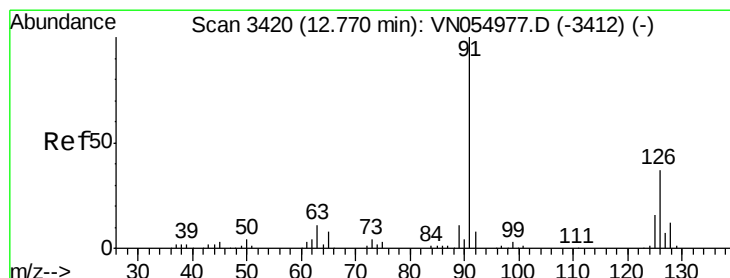
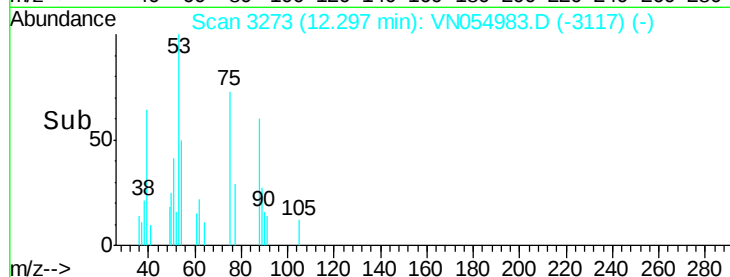
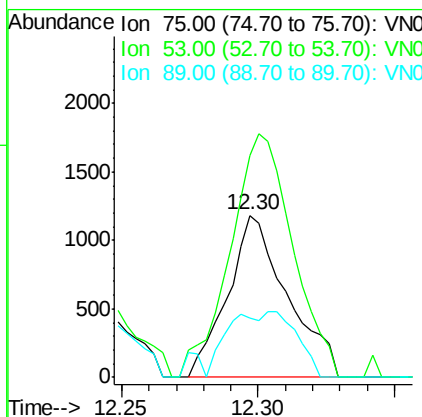
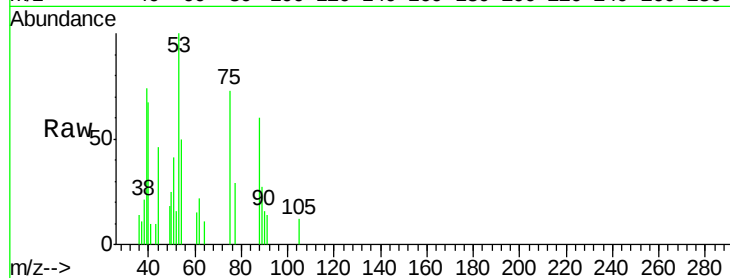
#77
t-1,4-Dichloro-2-butene
Concen: 1.947 ug/l
RT: 12.30 min Scan# 3273
Delta R.T. 0.00 min
Lab File: VN054983.D
Acq: 11 Apr 2019 18:04

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

Tot Ion	Ratio	Lower	Upper
75	100		
53	136.6	64.3	192.7
89	36.6	21.6	65.0

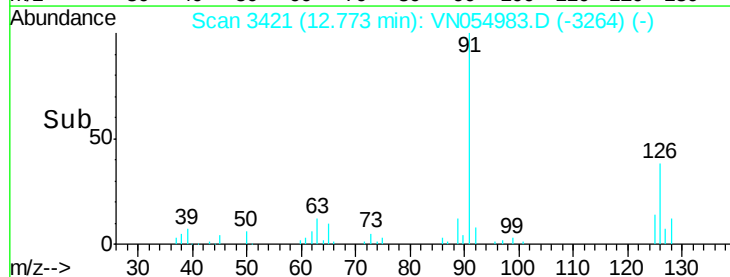
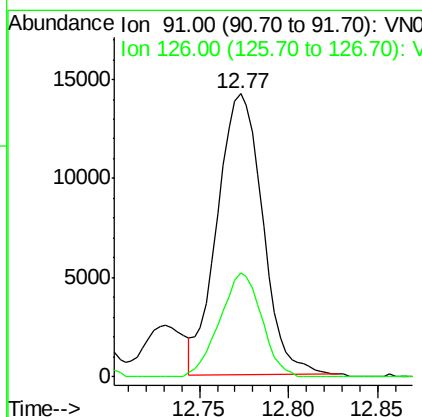
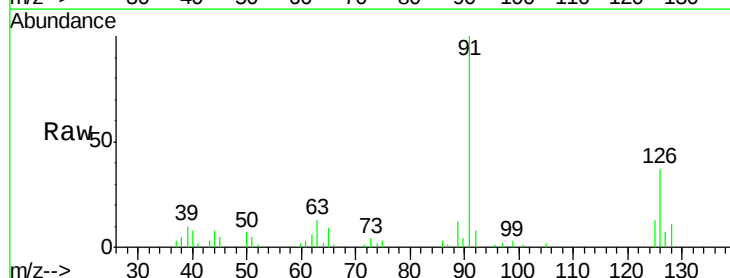
Manual Integrations
APPROVED

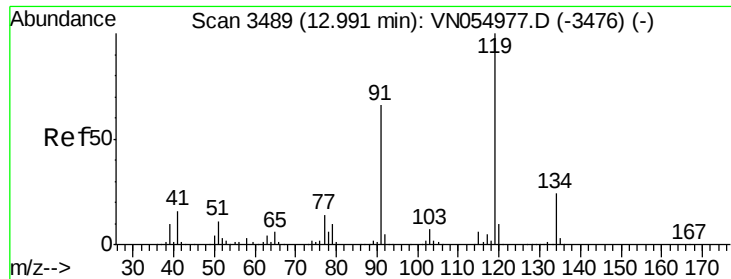
MMDadoda
4/12/2019 1:41:36 PM



#78
4-Chlorotoluene
Concen: 1.998 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN054983.D
Acq: 11 Apr 2019 18:04

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.3	0.0	66.6





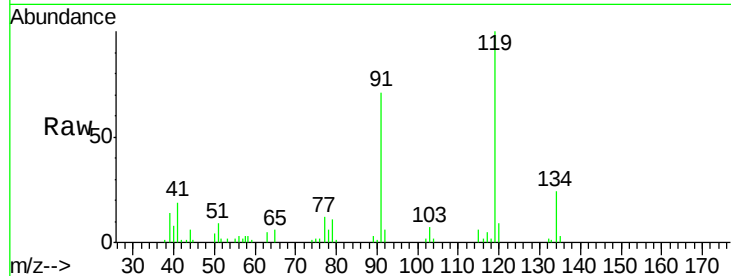
#79
tert-butylbenzene
Concen: 2.413 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. 0.00 min
Lab File: VN054983.D
Acq: 11 Apr 2019 18:04

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

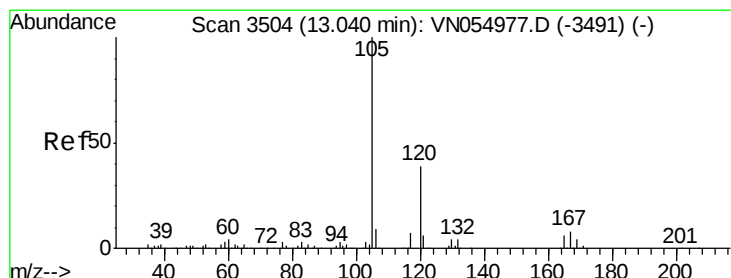
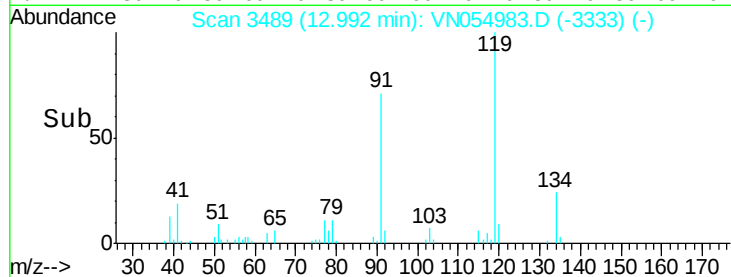
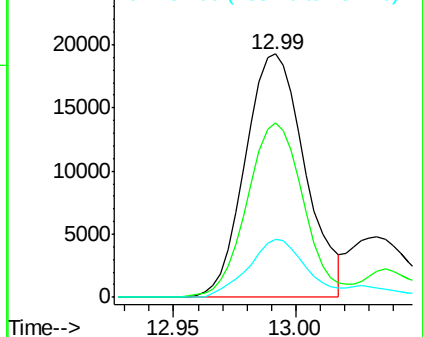
Tot Ion	Ratio	Resp	Lower	Upper
119	100	32757		
91	67.9	0.0	132.6	
134	23.3	0.0	47.6	

Manual Integrations
APPROVED

MMDadoda
4/12/2019 1:41:36 PM

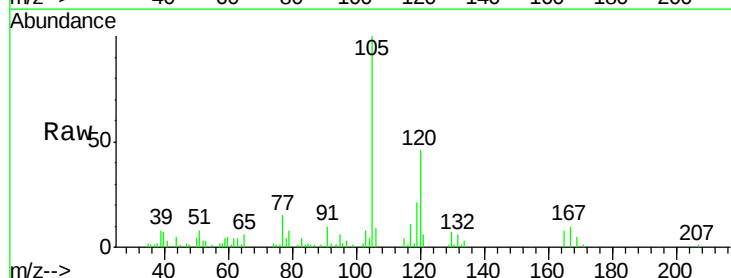


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V

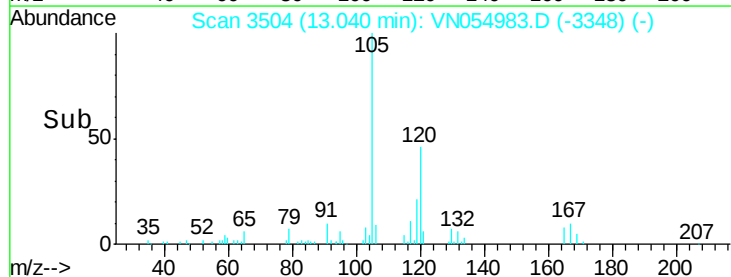
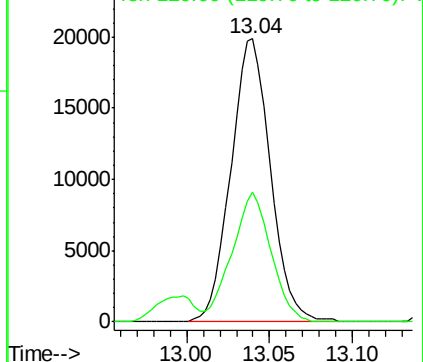


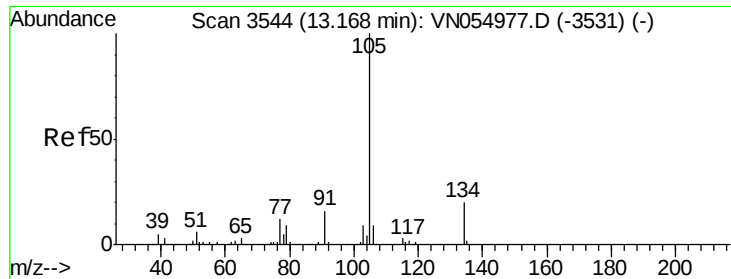
#80
1,2,4-Trimethylbenzene
Concen: 2.141 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN054983.D
Acq: 11 Apr 2019 18:04

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	33002		
120	44.8	0.0	91.4	



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





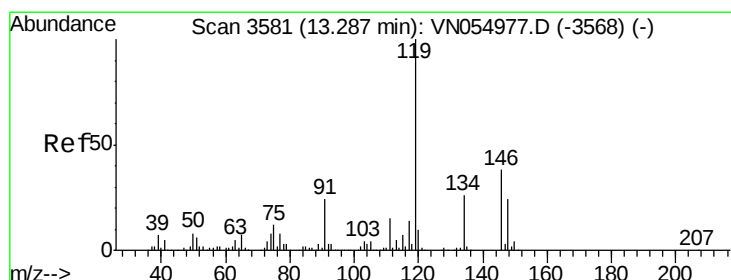
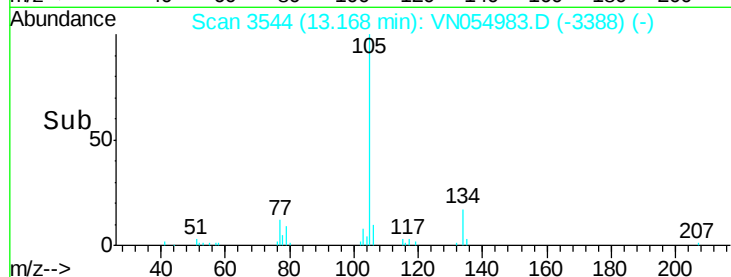
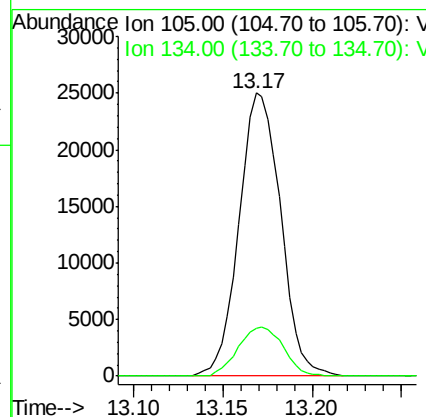
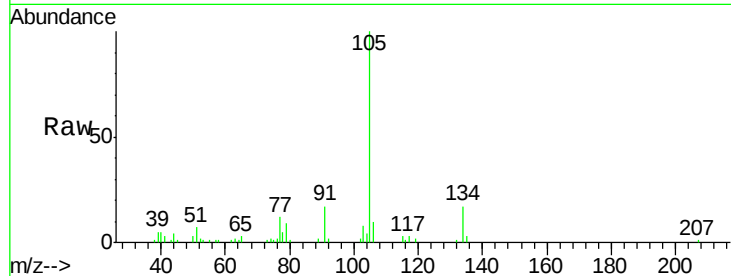
#81
 sec-Butylbenzene
 Concen: 2.242 ug/l
 RT: 13.17 min Scan# 3544
 Delta R.T. 0.00 min
 Lab File: VN054983.D
 Acq: 11 Apr 2019 18:04

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

Tot Ion	Ratio	Resp	Lower	Upper
105	100	40668		
134	18.7	0.0	40.0	

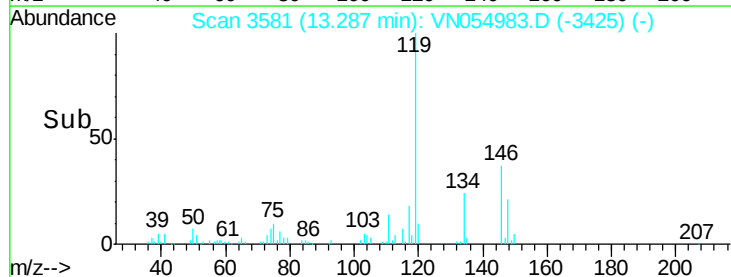
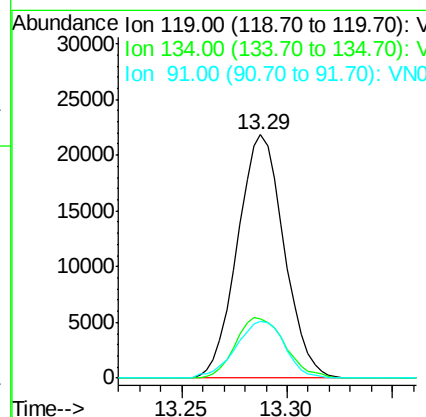
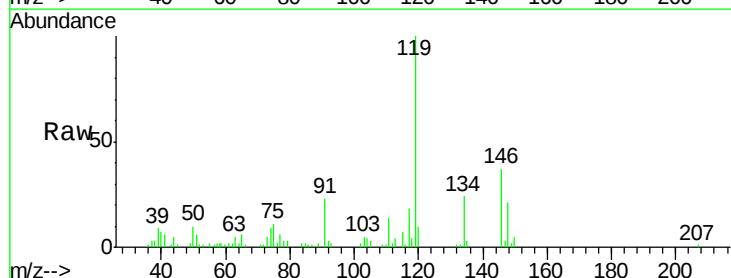
Manual Integrations
 APPROVED

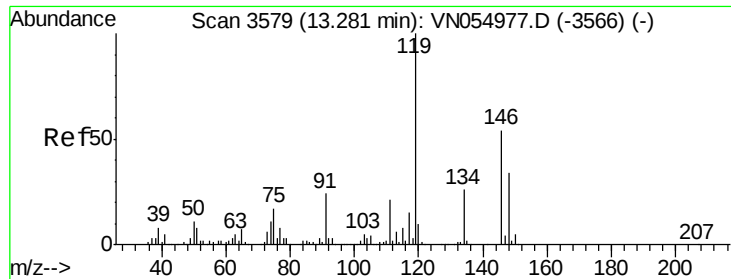
MMDadoda
 4/12/2019 1:41:36 PM



#82
 p-Isopropyltoluene
 Concen: 2.184 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN054983.D
 Acq: 11 Apr 2019 18:04

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	33435		
134	26.2	0.0	53.2	
91	24.6	0.0	47.8	





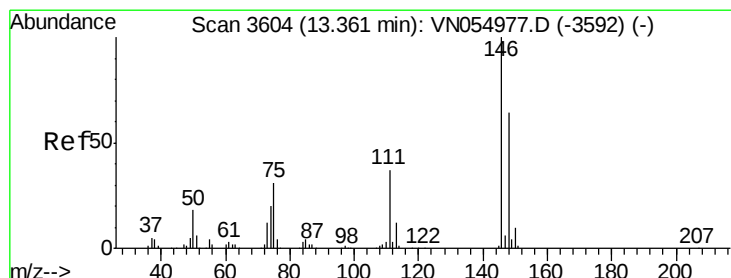
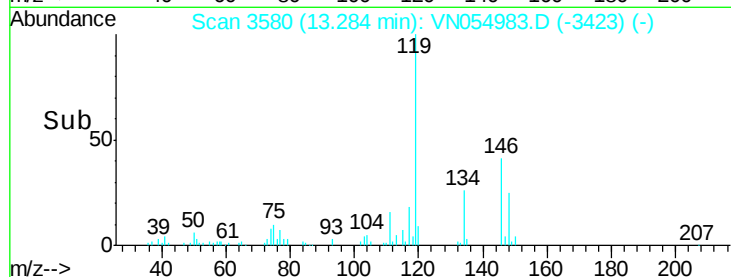
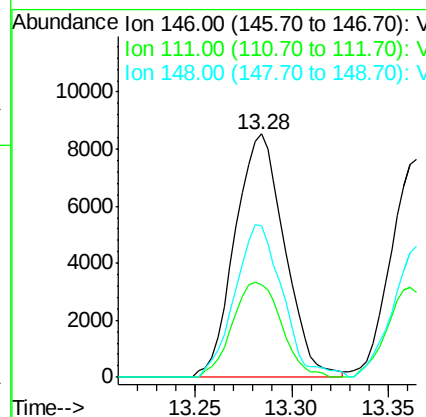
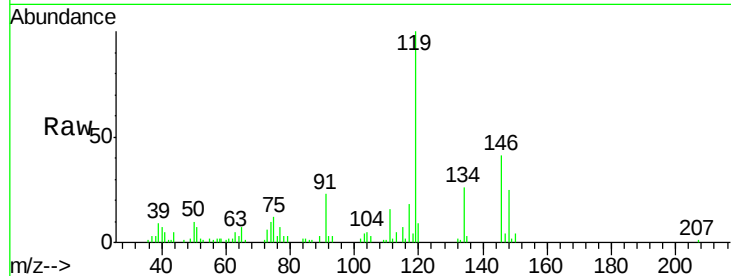
#83
 1,3-Dichlorobenzene
 Concen: 1.988 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN054983.D
 Acq: 11 Apr 2019 18:04

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

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.6	19.1	57.5
148	58.5	31.9	95.5

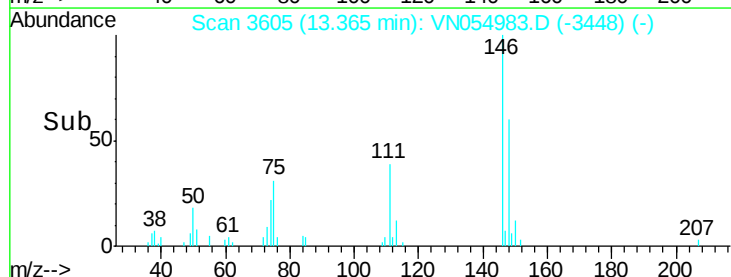
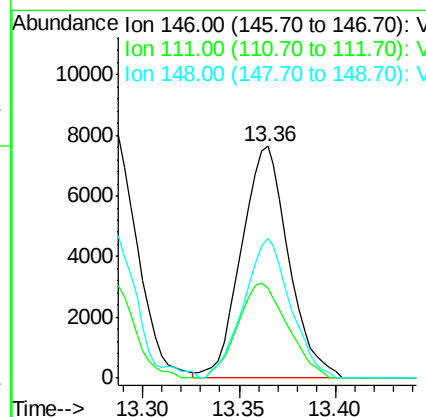
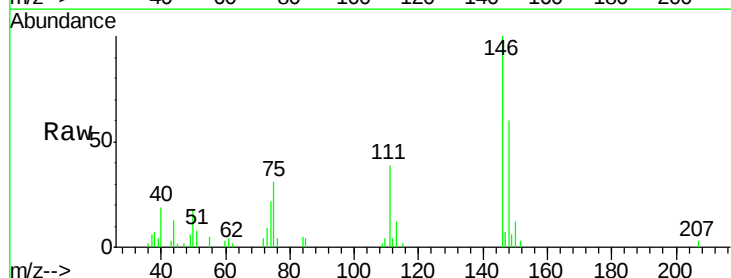
Manual Integrations
 APPROVED

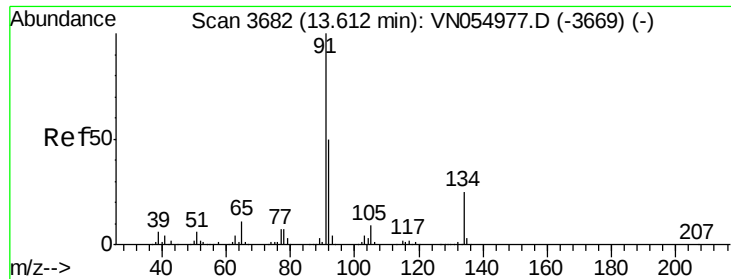
MMDadoda
 4/12/2019 1:41:36 PM



#84
 1,4-Dichlorobenzene
 Concen: 1.780 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN054983.D
 Acq: 11 Apr 2019 18:04

Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.3	18.4	55.2
148	59.6	32.5	97.4





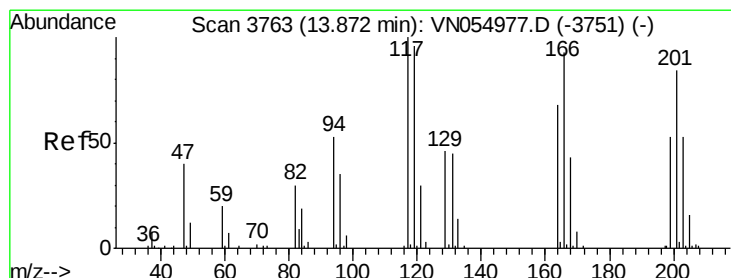
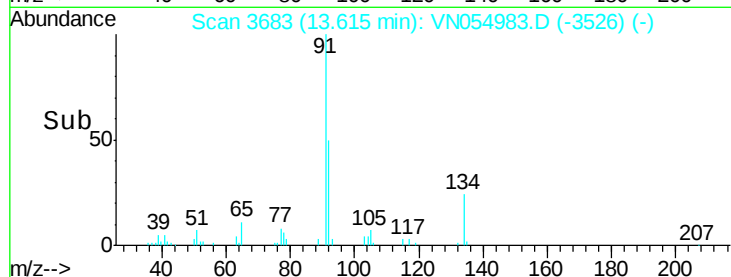
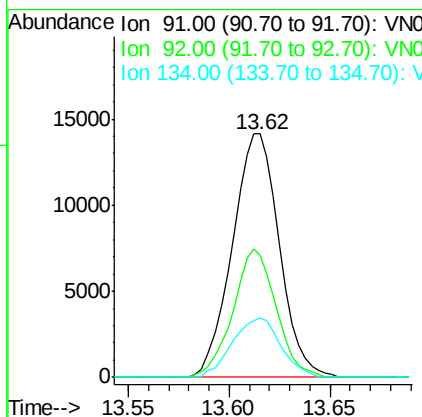
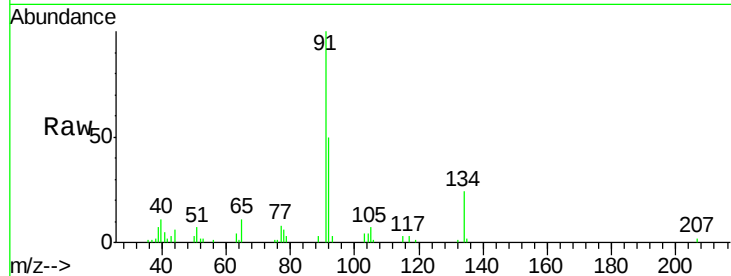
#85
n-Butylbenzene
Concen: 1.893 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN054983.D
Acq: 11 Apr 2019 18:04

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

Tot Ion	Ratio	Lower	Upper
91	100		
92	48.4	0.0	101.4
134	25.0	0.0	49.8

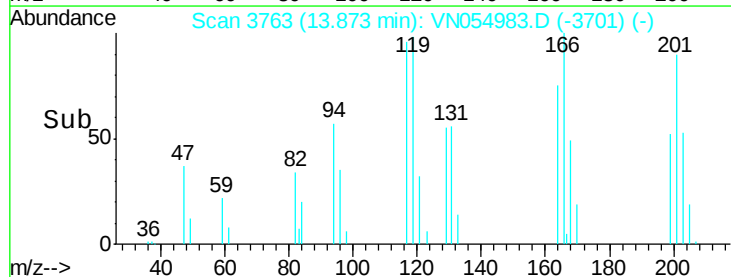
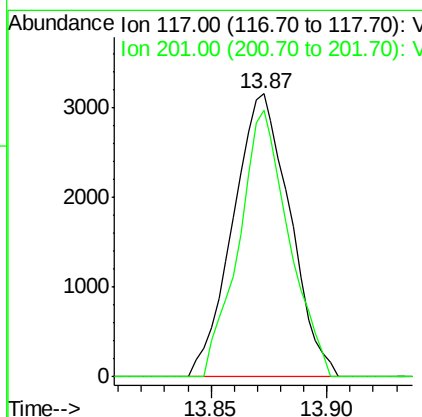
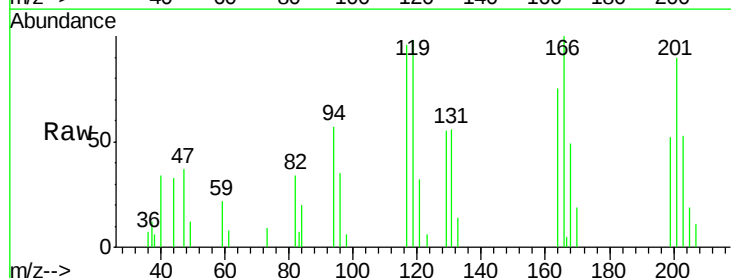
Manual Integrations
APPROVED

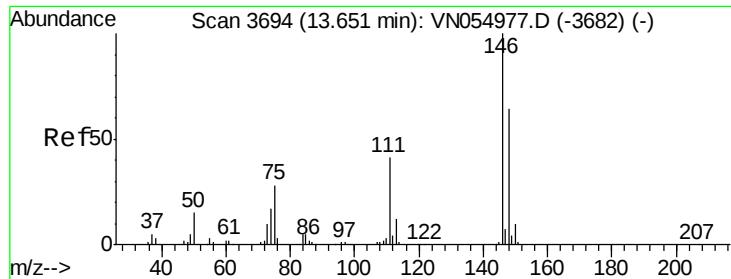
MMDadoda
4/12/2019 1:41:36 PM



#86
Hexachloroethane
Concen: 2.188 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. 0.00 min
Lab File: VN054983.D
Acq: 11 Apr 2019 18:04

Tgt Ion	Ratio	Lower	Upper
117	100		
201	82.8	42.8	128.3





#87

1,2-Dichlorobenzene

Concen: 2.122 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN054983.D

Acq: 11 Apr 2019 18:04

Instrument :

MSVOA_N

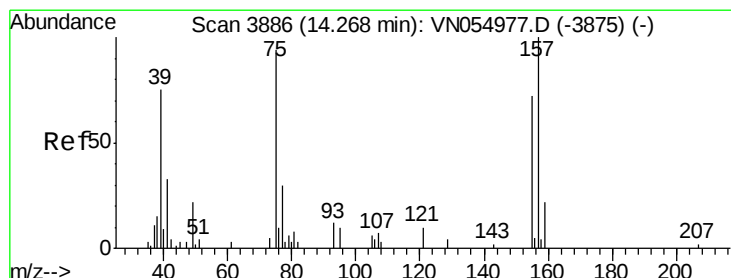
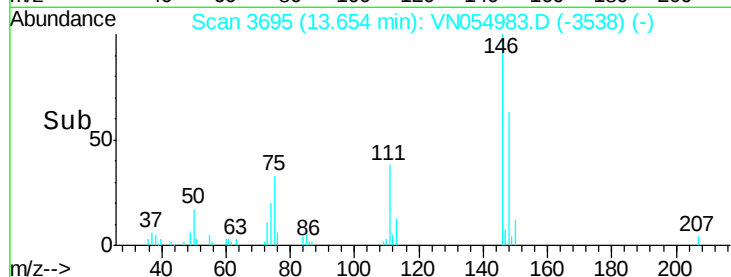
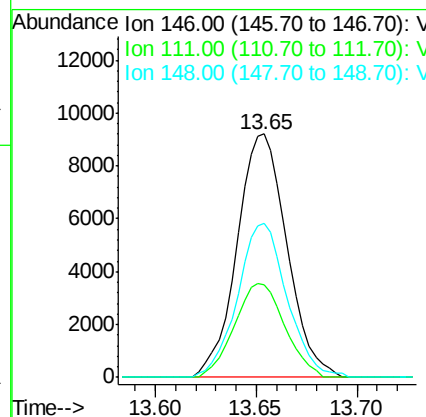
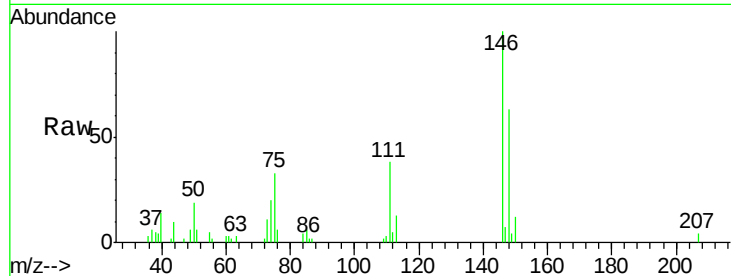
ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion:	146	Resp:	15948
Ion Ratio	Lower	Upper	
146	100		
111	38.9	20.3	60.8
148	62.5	32.5	97.5

Manual Integrations
APPROVED

MMDadoda
4/12/2019 1:41:36 PM



#88

1,2-Dibromo-3-Chloropropane

Concen: 2.614 ug/l

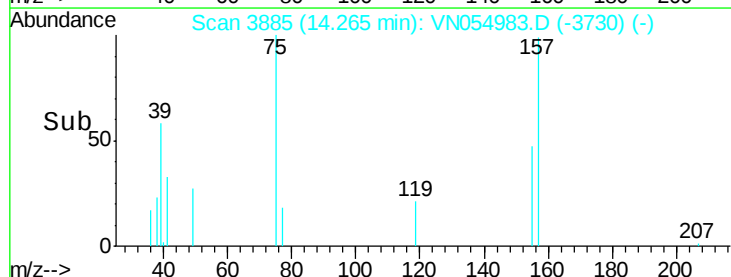
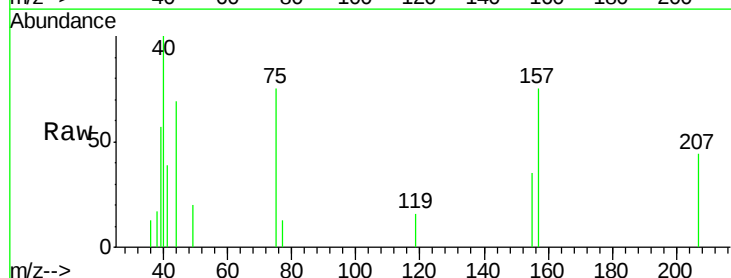
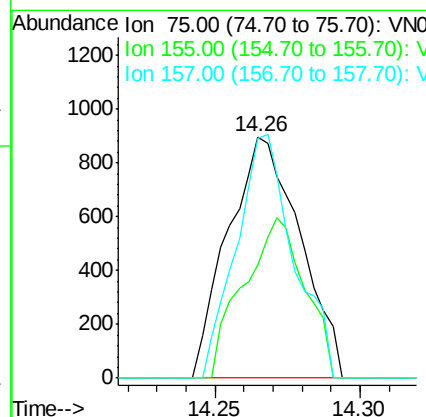
RT: 14.26 min Scan# 3885

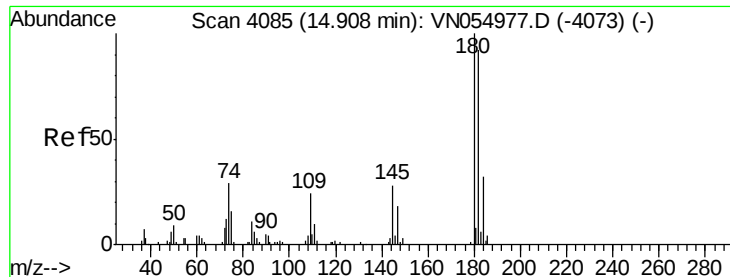
Delta R.T. -0.00 min

Lab File: VN054983.D

Acq: 11 Apr 2019 18:04

Tgt Ion:	75	Resp:	1542
Ion Ratio	Lower	Upper	
75	100		
155	56.8	61.8	92.8#
157	80.8	82.7	124.1#





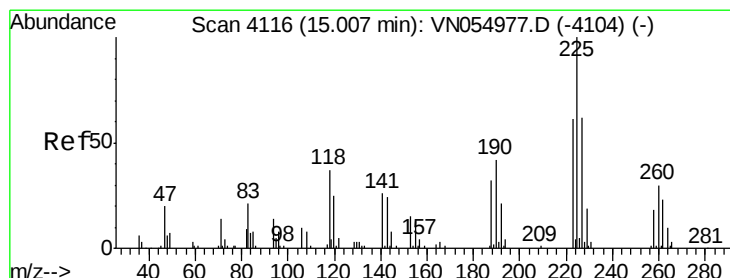
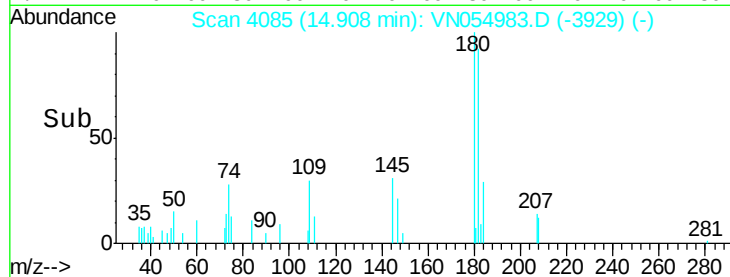
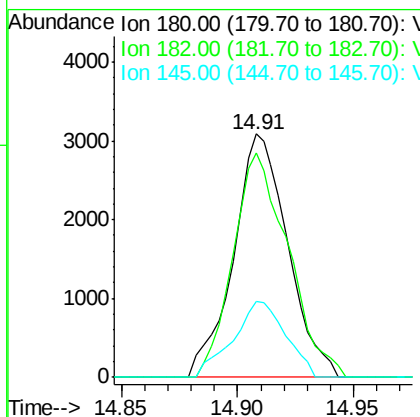
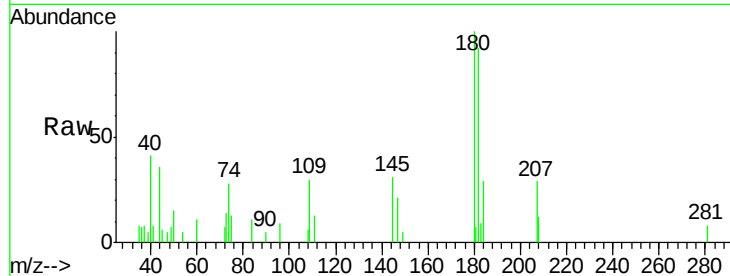
#89
 1,2,4-Trichlorobenzene
 Concen: 1.491 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN054983.D
 Acq: 11 Apr 2019 18:04

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

Tot Ion	Ratio	Lower	Upper
180	100		
182	93.6	73.2	109.8
145	30.4	23.2	34.8

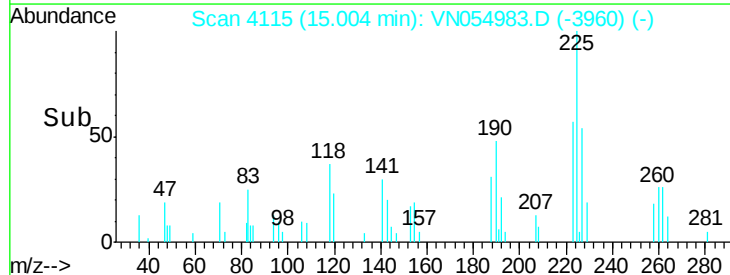
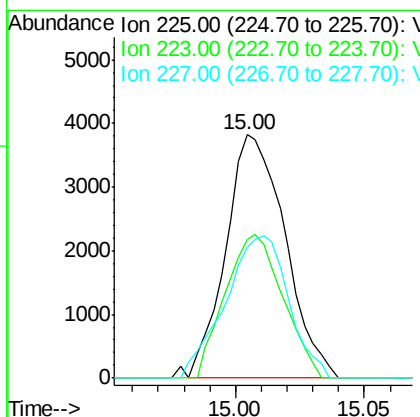
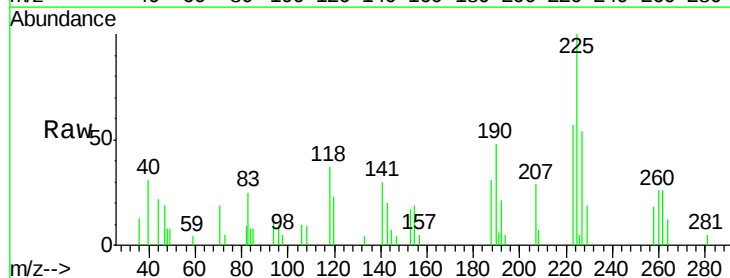
Manual Integrations
 APPROVED

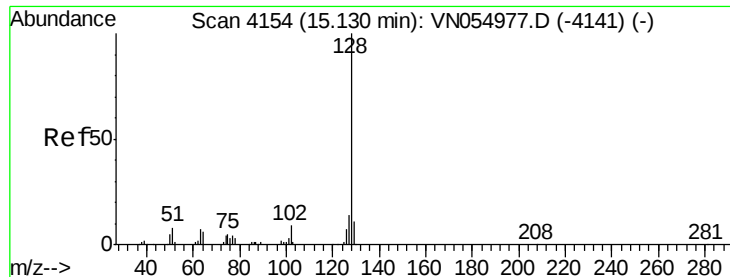
MMDadoda
 4/12/2019 1:41:36 PM



#90
 Hexachlorobutadiene
 Concen: 2.493 ug/l
 RT: 15.00 min Scan# 4115
 Delta R.T. -0.00 min
 Lab File: VN054983.D
 Acq: 11 Apr 2019 18:04

Tgt Ion	Ratio	Lower	Upper
225	100		
223	57.2	0.0	126.0
227	62.4	0.0	125.4





#91

Naphthalene

Concen: 1.538 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN054983.D

Acq: 11 Apr 2019 18:04

Instrument :

MSVOA_N

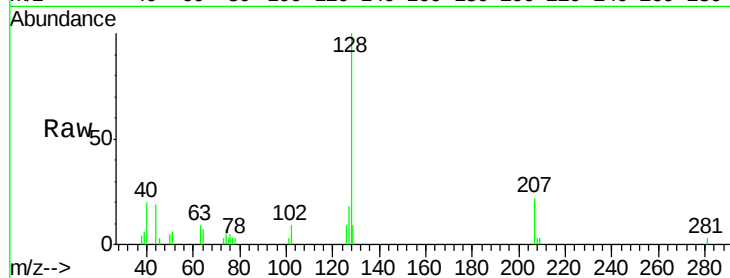
ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

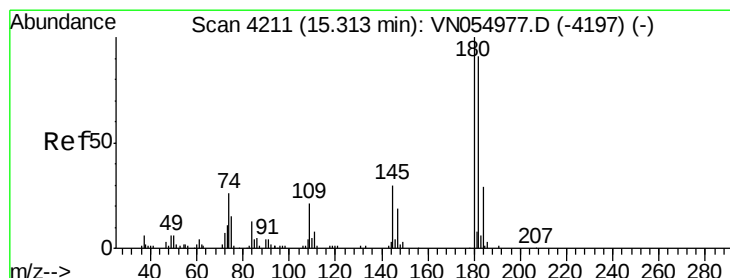
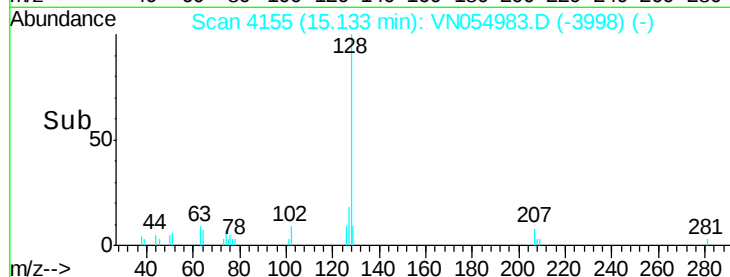
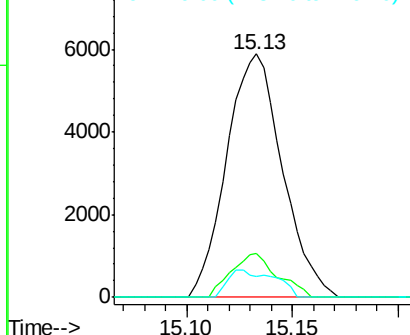
Tot Ion:	128	Resp:	10818
Ion Ratio	Lower	Upper	
128	100		
127	14.8	10.6	15.8
129	5.5	9.0	13.6#

Manual Integrations
APPROVED

MMDadoda
4/12/2019 1:41:36 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



#92

1,2,3-Trichlorobenzene

Concen: 1.682 ug/l

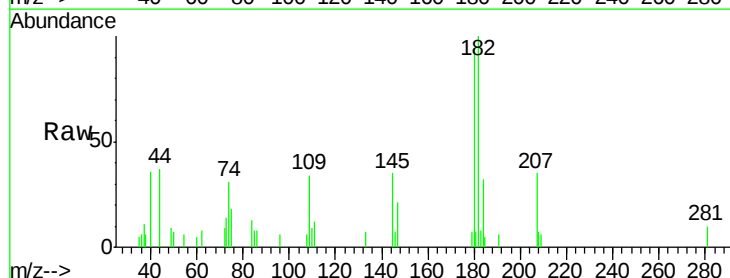
RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN054983.D

Acq: 11 Apr 2019 18:04

Tgt Ion:	180	Resp:	5652
Ion Ratio	Lower	Upper	
180	100		
182	102.2	0.0	188.2
145	33.5	0.0	61.2



Abundance Ion 180.00 (179.70 to 180.70): V
Ion 182.00 (181.70 to 182.70): V
Ion 145.00 (144.70 to 145.70): V

