

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX041519\
 Data File : VX008964.D
 Acq On : 15 Apr 2019 16:46
 Operator : JC/SP
 Sample : K2241-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

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

Manual Integrations
 APPROVED

MMDadoda
 4/16/2019 10:53:28 AM

Quant Time: Apr 16 09:36:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X041519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 16 02:27:32 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	221370	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	364814	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	316961	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	139233	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	154512	49.53	ug/l	0.00
Spiked Amount			Recovery	=	99.06%	
35) Dibromofluoromethane	5.49	113	110947	47.39	ug/l	0.00
Spiked Amount			Recovery	=	94.78%	
50) Toluene-d8	8.71	98	452573	48.47	ug/l	0.00
Spiked Amount			Recovery	=	96.94%	
62) 4-Bromofluorobenzene	11.13	95	156365	47.44	ug/l	0.00
Spiked Amount			Recovery	=	94.88%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	1271	0.498	ug/l	91
3) Chloromethane	1.32	50	2027	0.648	ug/l	95
4) Vinyl Chloride	1.41	62	1652	0.542	ug/l	100
5) Bromomethane	1.64	94	2335	1.180	ug/l	99
6) Chloroethane	1.71	64	1219	0.680	ug/l	91
7) Trichlorofluoromethane	1.93	101	1812	0.509	ug/l	94
8) Diethyl Ether	2.19	74	1095	0.673	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	2.38	101	1246	0.548	ug/l	95
10) Methyl Iodide	2.51	142	3583	1.584	ug/l	98
11) Tert butyl alcohol	3.04	59	8779	12.677	ug/l #	91
12) 1,1-Dichloroethene	2.37	96	1298	0.547	ug/l	87
13) Acrolein	2.29	56	5974	9.984	ug/l	97
14) Allyl chloride	2.73	41	2904	0.561	ug/l #	84
15) Acrylonitrile	3.14	53	4716	2.683	ug/l	93
16) Acetone	2.45	43	5027	3.107	ug/l	94
17) Carbon Disulfide	2.57	76	4092	0.555	ug/l	99
18) Methyl Acetate	2.78	43	2718	0.673	ug/l	95
19) Methyl tert-butyl Ether	3.19	73	4401	0.520	ug/l #	85
20) Methylene Chloride	2.85	84	2272	0.821	ug/l #	89
21) trans-1,2-Dichloroethene	3.16	96	1388	0.548	ug/l	90
22) Diisopropyl ether	3.85	45	5539	0.550	ug/l #	83
23) Vinyl Acetate	3.82	43	21044	2.379	ug/l	97
24) 1,1-Dichloroethane	3.70	63	2882	0.570	ug/l #	92
25) 2-Butanone	4.68	43	6319	2.444	ug/l	98
26) 2,2-Dichloropropane	4.59	77	1995	0.527	ug/l	99
27) cis-1,2-Dichloroethene	4.60	96	1649	0.574	ug/l	81
28) Bromochloromethane	5.01	49	1548	0.661	ug/l #	87
29) Tetrahydrofuran	5.15	42	5065	2.926	ug/l #	88
30) Chloroform	5.22	83	2587	0.572	ug/l	100
31) Cyclohexane	5.58	56	2685	0.540	ug/l	94
32) 1,1,1-Trichloroethane	5.51	97	2091	0.558	ug/l #	23
36) 1,1-Dichloropropene	5.81	75	2161	0.573	ug/l #	94
37) Ethyl Acetate	4.85	43	2517	0.518	ug/l #	94
38) Carbon Tetrachloride	5.77	117	1764	0.551	ug/l #	73

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.46	83	2370	0.516	ug/l #	86
40) Benzene	6.15	78	5984	0.538	ug/l #	88
41) Methacrylonitrile	5.06	41	1741	0.625	ug/l #	74
42) 1,2-Dichloroethane	6.20	62	2591	0.657	ug/l	85
43) Isopropyl Acetate	6.45	43	4206	0.538	ug/l	99
44) Trichloroethene	7.21	130	1408	0.516	ug/l	88
45) 1,2-Dichloropropane	7.52	63	1760	0.570	ug/l	92
46) Dibromomethane	7.66	93	927	0.516	ug/l	97
47) Bromodichloromethane	7.90	83	1884	0.535	ug/l	89
48) Methyl methacrylate	7.77	41	2348	0.607	ug/l #	84
49) 1,4-Dioxane	7.75	88	807	11.153	ug/l #	73
51) 4-Methyl-2-Pentanone	8.64	43	12225	2.453	ug/l	99
52) Toluene	8.79	92	3381	0.507	ug/l	90
53) t-1,3-Dichloropropene	9.04	75	1720	0.424	ug/l	94
54) cis-1,3-Dichloropropene	8.44	75	1923	0.423	ug/l	92
55) 1,1,2-Trichloroethane	9.22	97	1315	0.497	ug/l	97
56) Ethyl methacrylate	9.18	69	2235	0.471	ug/l	95
57) 1,3-Dichloropropane	9.37	76	2514	0.534	ug/l	94
58) 2-Chloroethyl Vinyl ether	8.31	63	5799	2.272	ug/l	99
59) 2-Hexanone	9.49	43	8588	2.235	ug/l	97
60) Dibromochloromethane	9.59	129	1109	0.438	ug/l	99
61) 1,2-Dibromoethane	9.67	107	1394	0.511	ug/l	93
64) Tetrachloroethene	9.34	164	1436	0.596	ug/l	93
65) Chlorobenzene	10.13	112	3459	0.517	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.22	131	1191	0.505	ug/l #	63
67) Ethyl Benzene	10.25	91	6167	0.504	ug/l	97
68) m/p-Xylenes	10.36	106	4496	1.012	ug/l	97
69) o-Xylene	10.70	106	2194	0.507	ug/l	98
70) Styrene	10.71	104	3452	0.461	ug/l	95
71) Bromoform	10.86	173	830	0.442	ug/l #	97
73) Isopropylbenzene	11.02	105	5516	0.523	ug/l	95
74) N-amyl acetate	10.90	43	3096	0.511	ug/l #	94
75) 1,1,2,2-Tetrachloroethane	11.27	83	2169	0.562	ug/l	98
76) 1,2,3-Trichloropropane	11.30	75	2132m	0.627	ug/l	
77) Bromobenzene	11.26	156	1516	0.569	ug/l	96
78) n-propylbenzene	11.36	91	6243	0.515	ug/l	99
79) 2-Chlorotoluene	11.42	91	4310	0.590	ug/l	95
80) 1,3,5-Trimethylbenzene	11.51	105	4457	0.503	ug/l	94
81) trans-1,4-Dichloro-2-buten	11.07	75	630m	0.476	ug/l	
82) 4-Chlorotoluene	11.51	91	4399	0.519	ug/l	99
83) tert-Butylbenzene	11.77	119	4449	0.523	ug/l	97
84) 1,2,4-Trimethylbenzene	11.80	105	4639	0.515	ug/l	99
85) sec-Butylbenzene	11.94	105	5079	0.501	ug/l	97
86) p-Isopropyltoluene	12.07	119	4660	0.500	ug/l	86
87) 1,3-Dichlorobenzene	12.02	146	2350	0.504	ug/l	94
88) 1,4-Dichlorobenzene	12.10	146	2623m	0.555	ug/l	
89) n-Butylbenzene	12.39	91	4047	0.466	ug/l	97
90) Hexachloroethane	12.60	117	740	0.481	ug/l	94
91) 1,2-Dichlorobenzene	12.39	146	2469	0.536	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	13.01	75	487	0.555	ug/l	91

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.65	180	1618	0.487	ug/l	94
94) Hexachlorobutadiene	13.78	225	860	0.519	ug/l	97
95) Naphthalene	13.83	128	4802	0.451	ug/l	95
96) 1,2,3-Trichlorobenzene	14.02	180	1540	0.470	ug/l	97

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

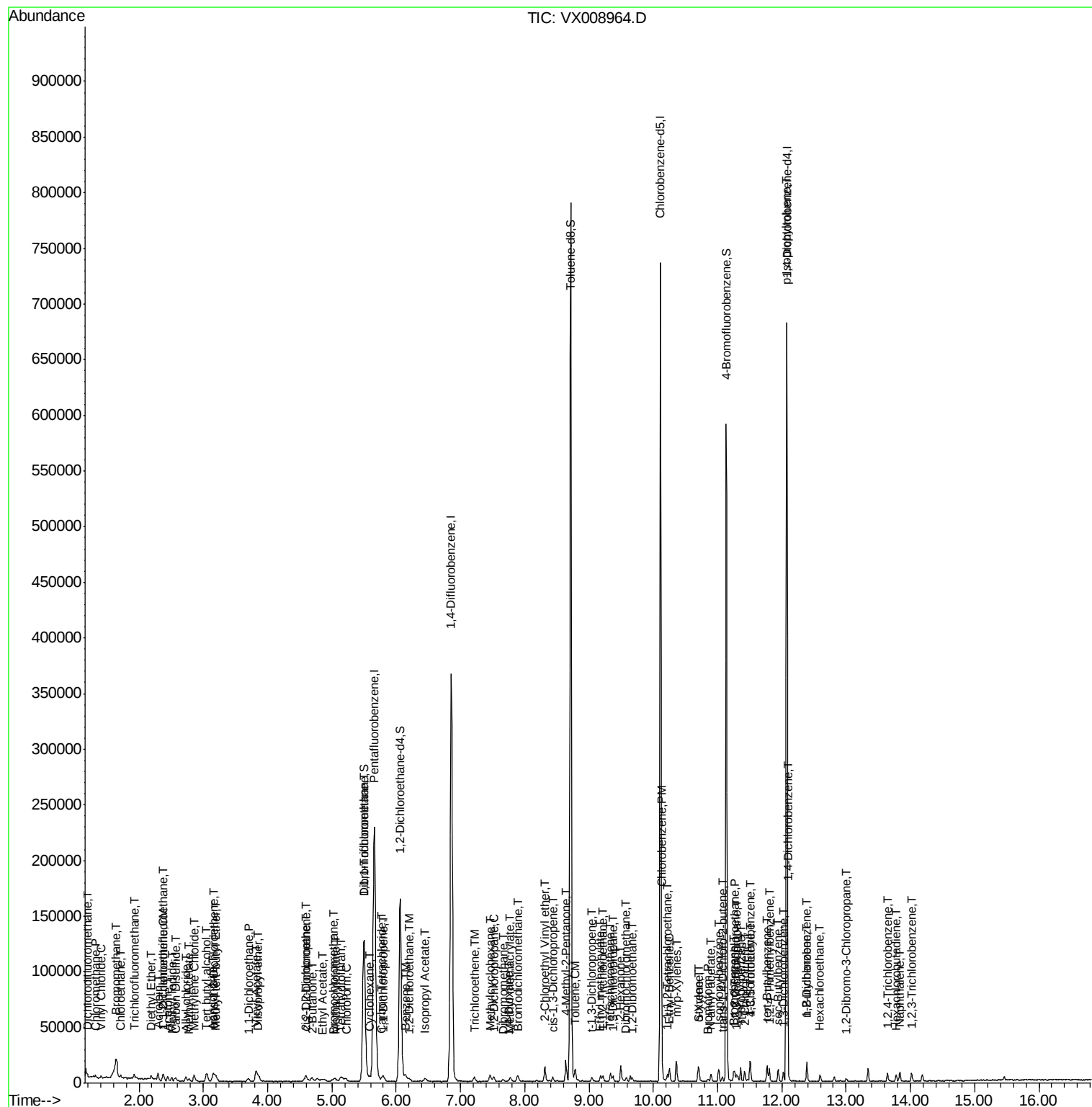
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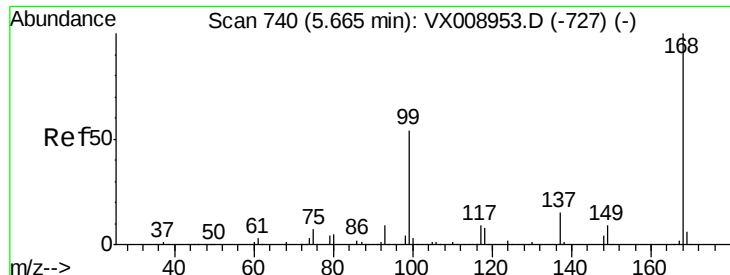
Instrument :
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX008964.D

Acq: 15 Apr 2019 16:46

Instrument :

MSVOA_X

ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion:168 Resp: 221370

Ion Ratio Lower Upper

168 100

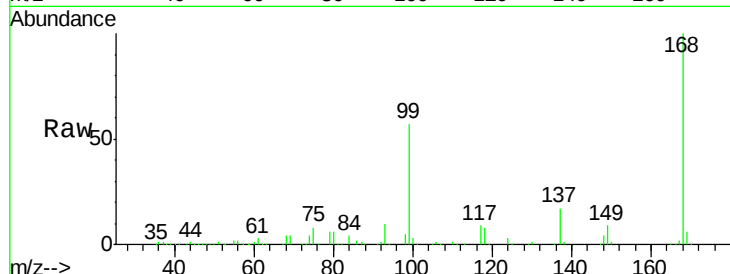
99 57.4 43.0 64.6

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

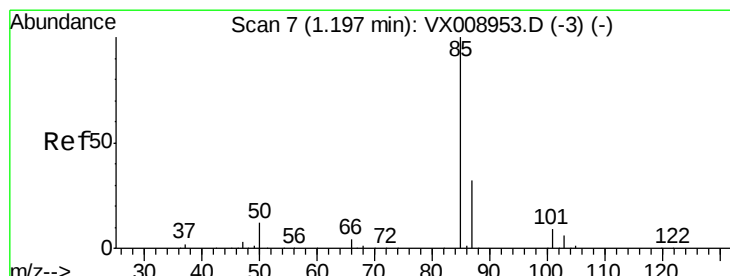
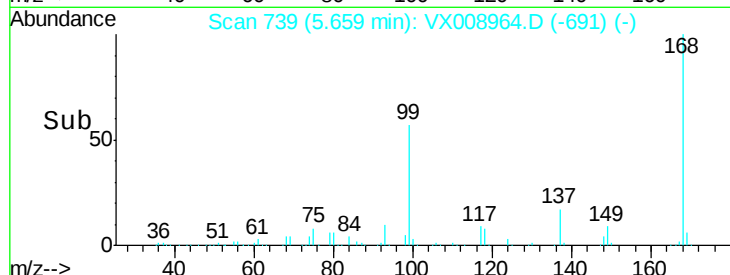
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.498 ug/l

RT: 1.20 min Scan# 7

Delta R.T. 0.00 min

Lab File: VX008964.D

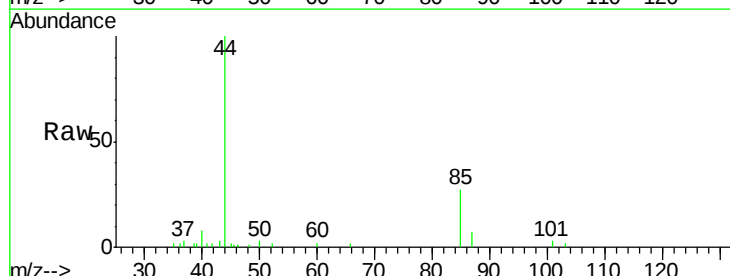
Acq: 15 Apr 2019 16:46

Tgt Ion: 85 Resp: 1271

Ion Ratio Lower Upper

85 100

87 27.1 16.0 47.9



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

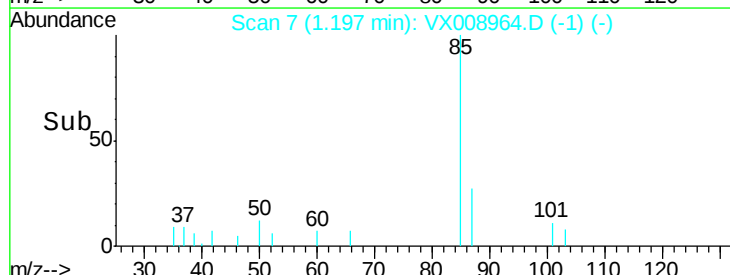
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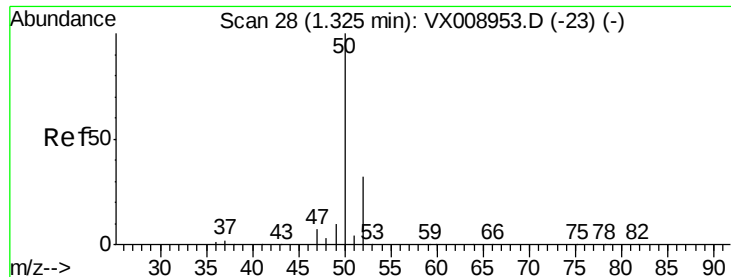
1000

500

0

Time--> 1.15 1.20 1.25





#3

Chloromethane

Concen: 0.648 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX008964.D

Acq: 15 Apr 2019 16:46

Instrument :

MSVOA_X

ClientSampleId :

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Tot Ion: 50 Resp: 2027

Ion Ratio Lower Upper

50 100

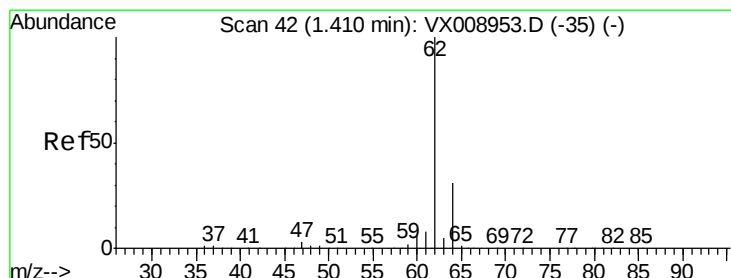
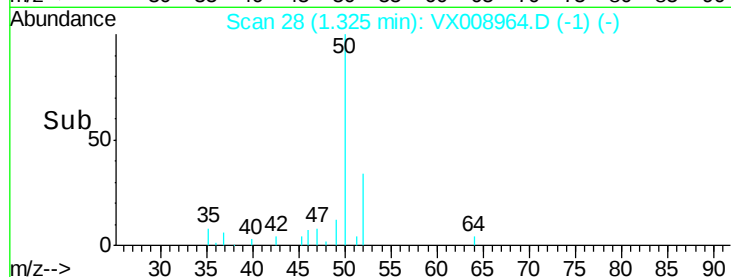
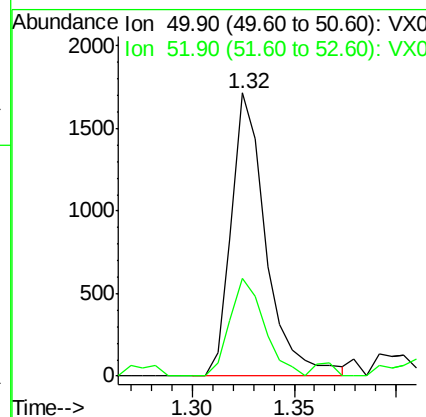
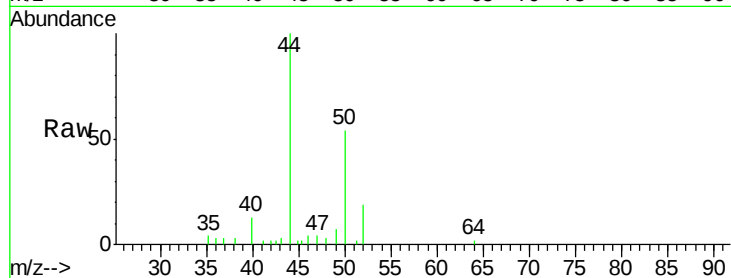
52 34.4 25.5 38.3

Manual Integrations

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#4

Vinyl Chloride

Concen: 0.542 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX008964.D

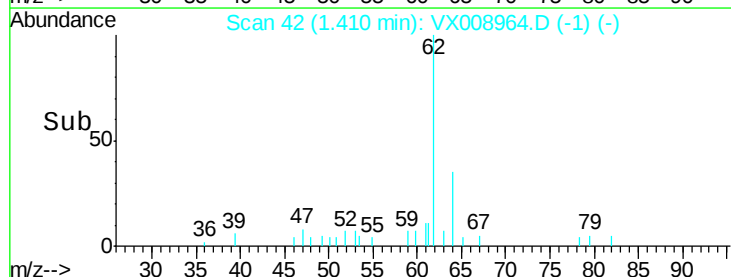
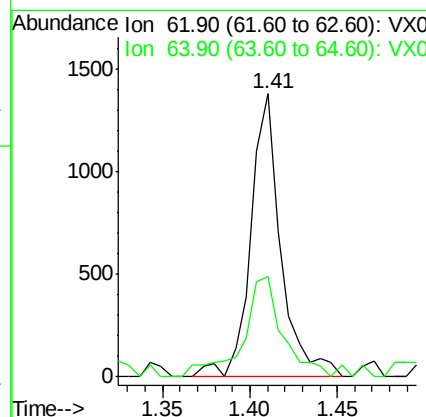
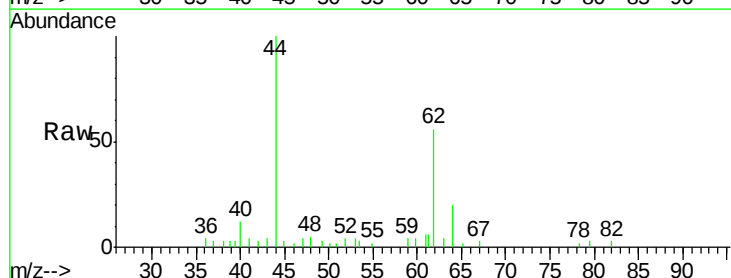
Acq: 15 Apr 2019 16:46

Tgt Ion: 62 Resp: 1652

Ion Ratio Lower Upper

62 100

64 31.4 25.0 37.4





#5

Bromomethane

Concen: 1.180 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.00 min

Lab File: VX008964.D

Acq: 15 Apr 2019 16:46

Instrument :

MSVOA_X

ClientSampleId :

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Tot Ion: 94 Resp: 2335

Ion Ratio Lower Upper

94 100

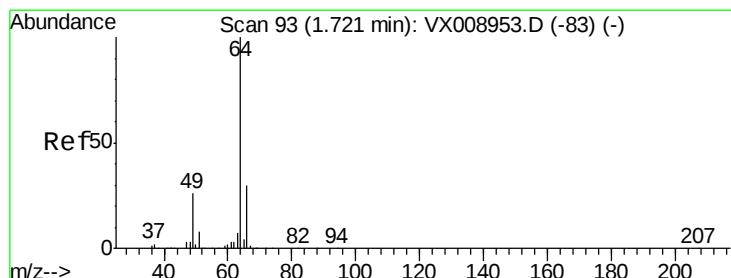
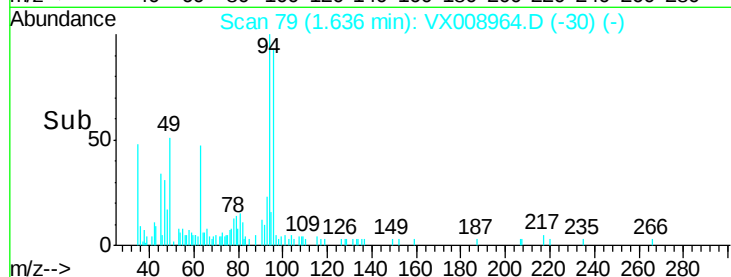
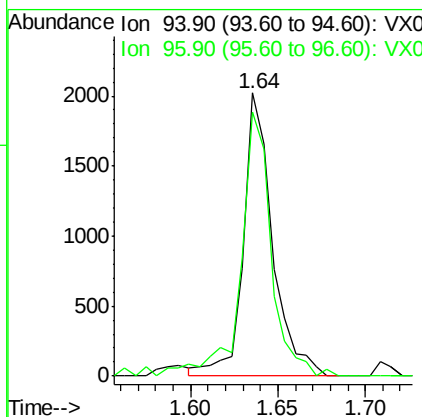
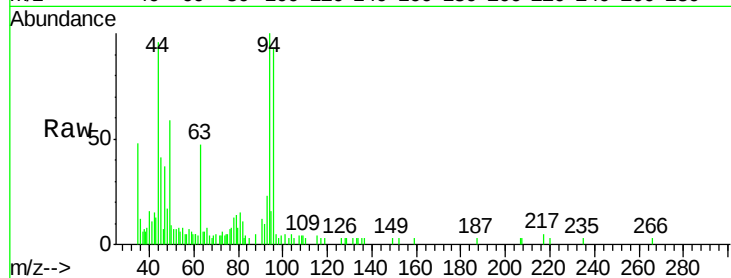
96 93.4 73.9 110.9

Manual Integrations

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#6

Chloroethane

Concen: 0.680 ug/l

RT: 1.71 min Scan# 92

Delta R.T. -0.01 min

Lab File: VX008964.D

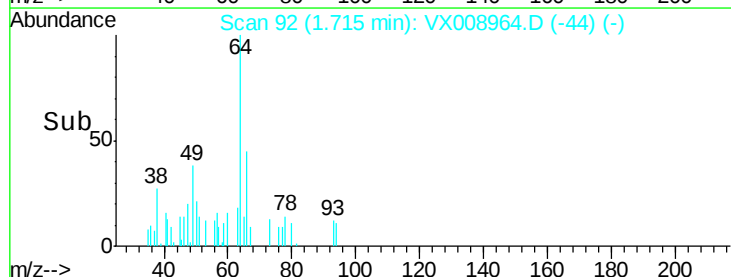
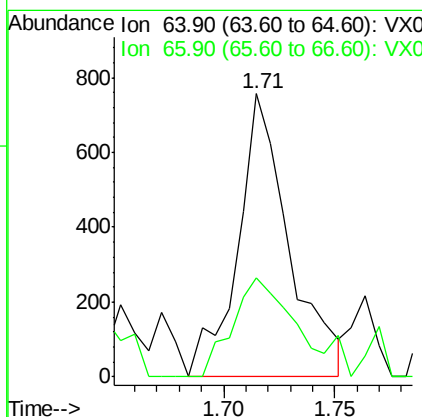
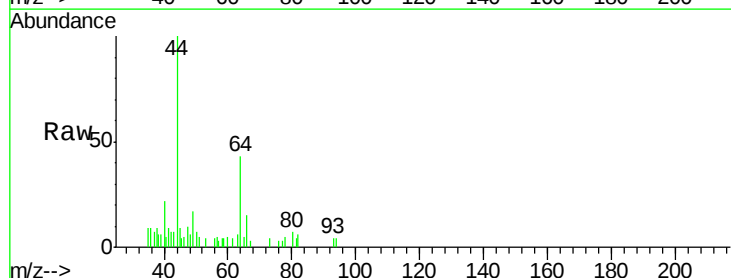
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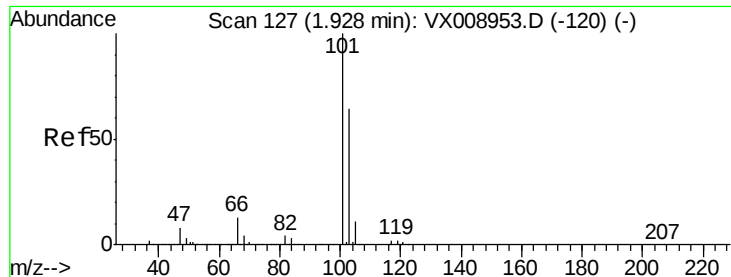
Tgt Ion: 64 Resp: 1219

Ion Ratio Lower Upper

64 100

66 35.1 24.2 36.2





#7

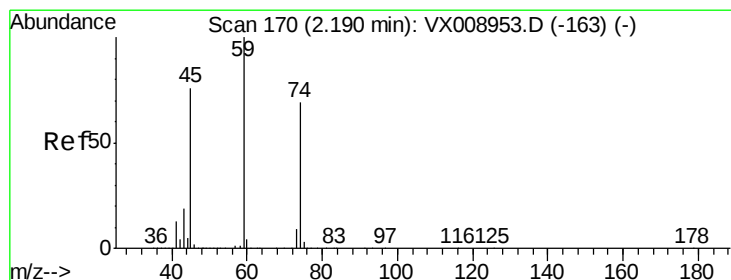
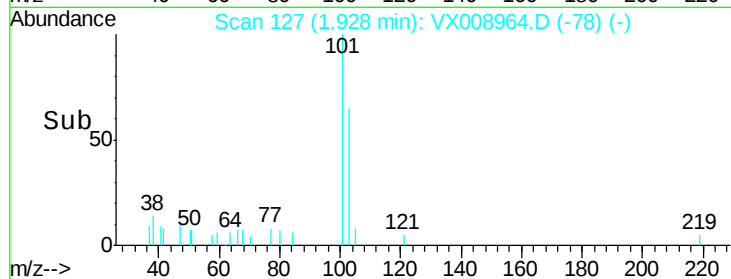
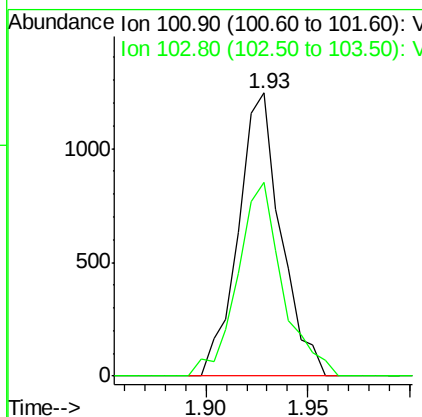
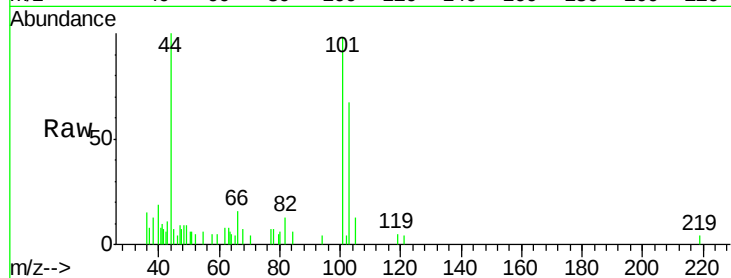
Trichlorofluoromethane
Concen: 0.509 ug/l
RT: 1.93 min Scan# 127
Delta R.T. 0.00 min
Lab File: VX008964.D
Acq: 15 Apr 2019 16:46

Instrument :
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Tot Ion	Ratio	Lower	Upper
101	100		
103	68.5	51.0	76.6

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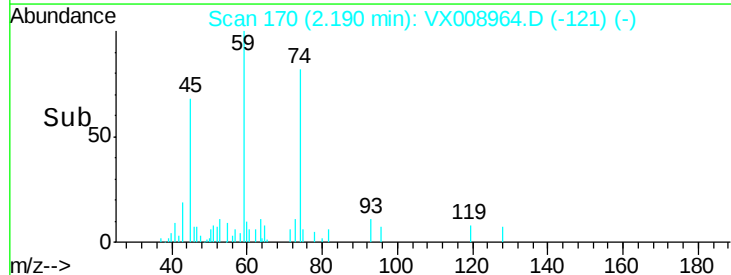
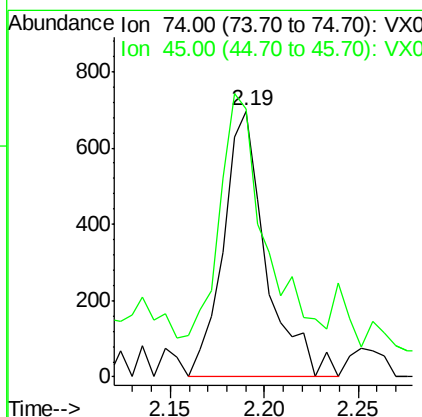
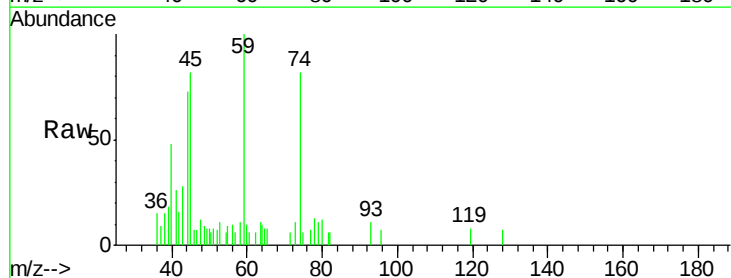
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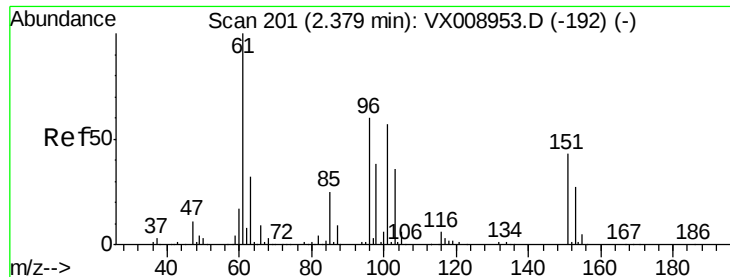


#8

Diethyl Ether
Concen: 0.673 ug/l
RT: 2.19 min Scan# 170
Delta R.T. -0.00 min
Lab File: VX008964.D
Acq: 15 Apr 2019 16:46

Tgt Ion	Ratio	Lower	Upper
74	100		
45	103.7	54.9	164.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.548 ug/l

RT: 2.38 min Scan# 201

Delta R.T. 0.00 min

Lab File: VX008964.D

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MSVOA_X

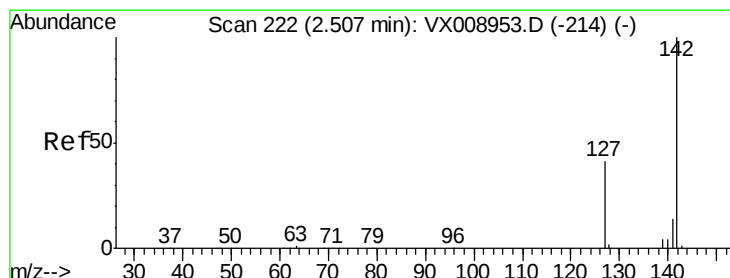
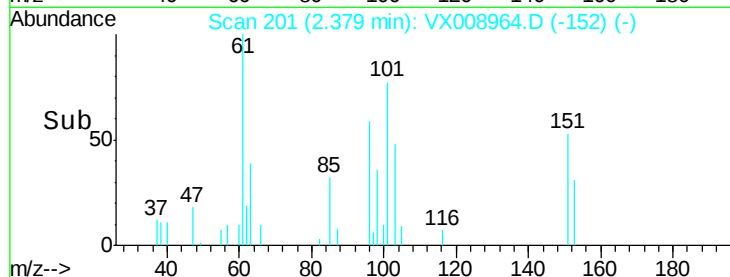
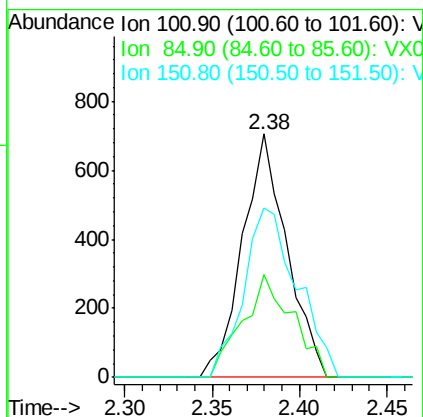
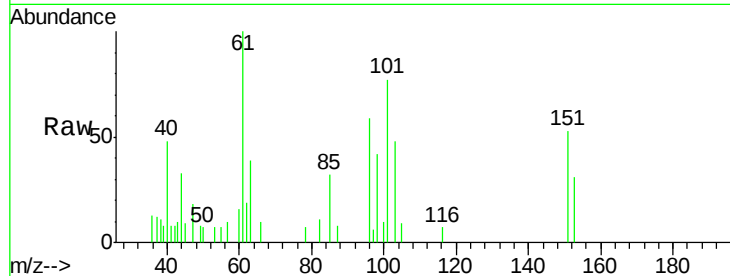
ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion:	101	Resp:	1246
Ion Ratio	Lower	Upper	
101	100		
85	47.3	35.7	53.5
151	83.9	62.7	94.1

Manual Integrations
APPROVED

MMDadoda
4/16/2019 10:53:28 AM



#10

Methyl Iodide

Concen: 1.584 ug/l

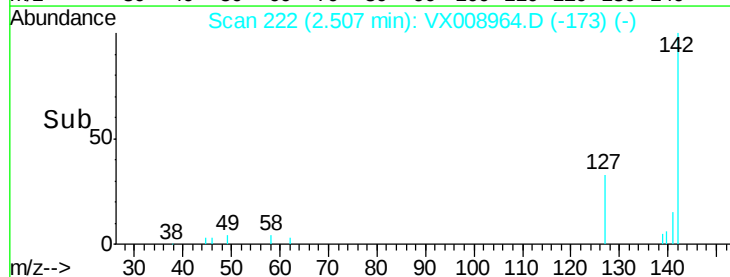
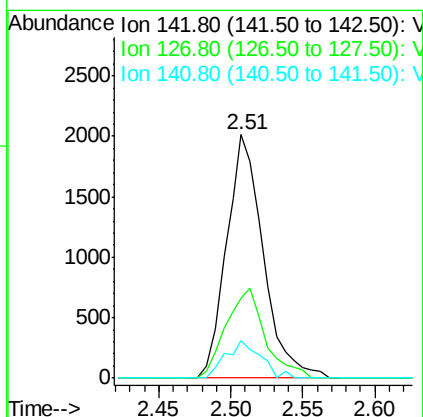
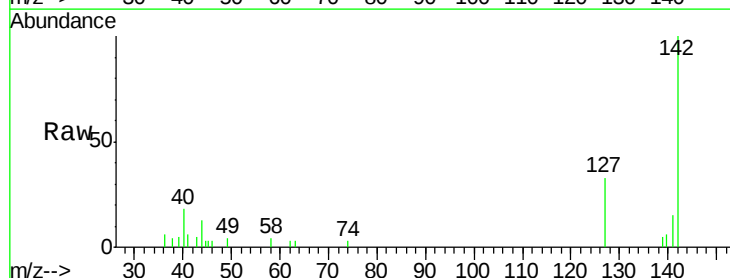
RT: 2.51 min Scan# 222

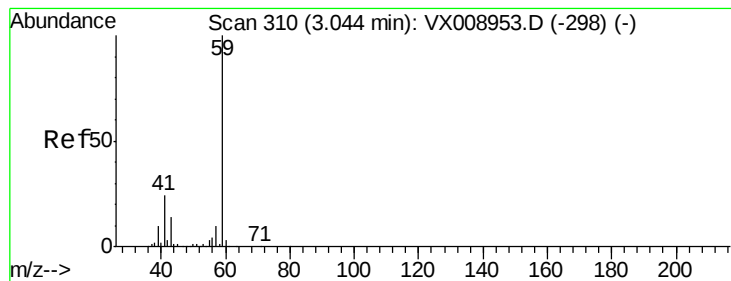
Delta R.T. 0.00 min

Lab File: VX008964.D

Acq: 15 Apr 2019 16:46

Tgt Ion:	142	Resp:	3583
Ion Ratio	Lower	Upper	
142	100		
127	39.1	32.8	49.2
141	14.6	11.4	17.2





#11

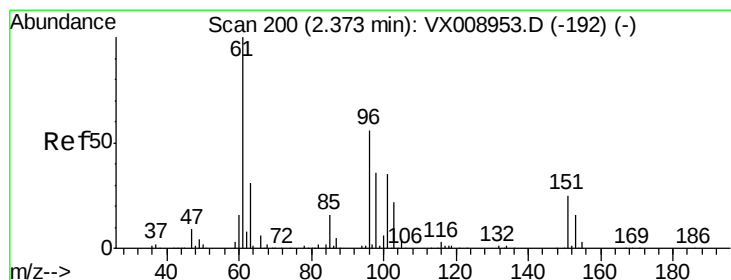
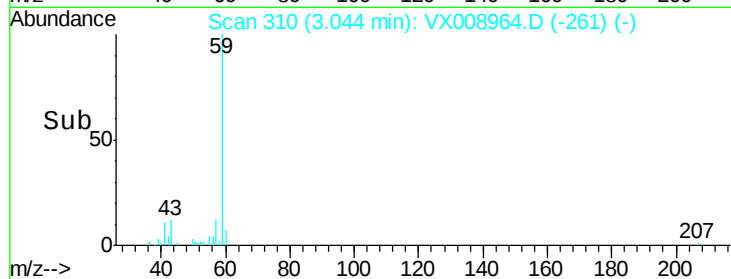
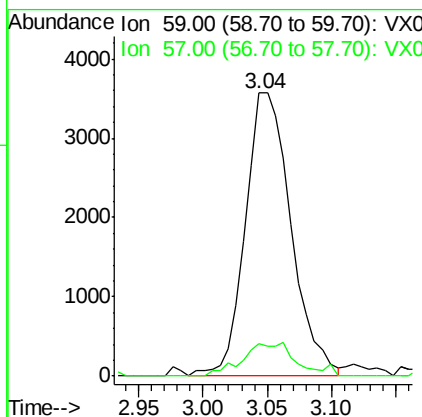
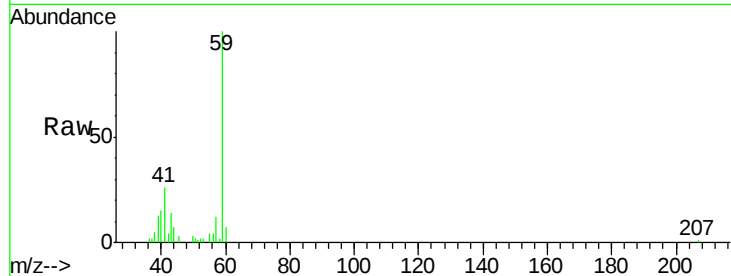
Tert butyl alcohol
 Concen: 12.677 ug/l
 RT: 3.04 min Scan# 310
 Delta R.T. 0.00 min
 Lab File: VX008964.D
 Acq: 15 Apr 2019 16:46

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

Tot Ion	59	Resp	8779
Ion	Ratio	Lower	Upper
59	100		
57	13.9	8.4	12.6#

Manual Integrations
 APPROVED

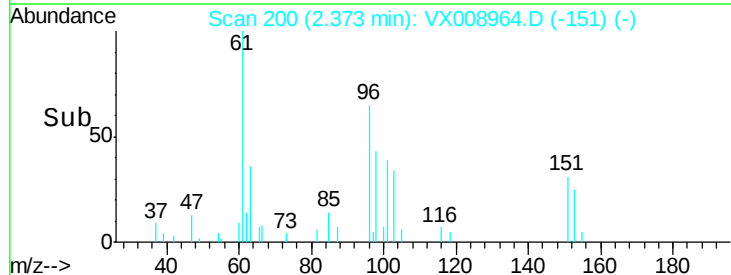
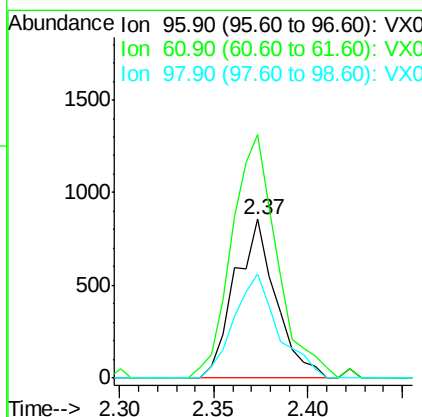
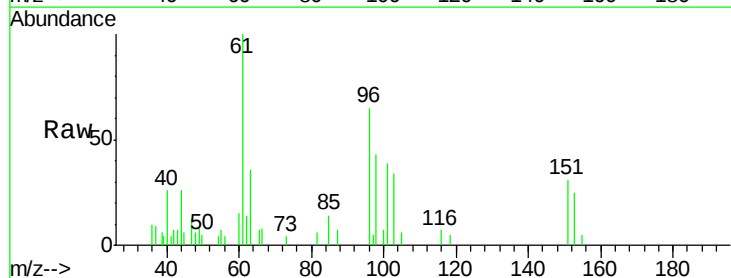
MMDadoda
 4/16/2019 10:53:28 AM

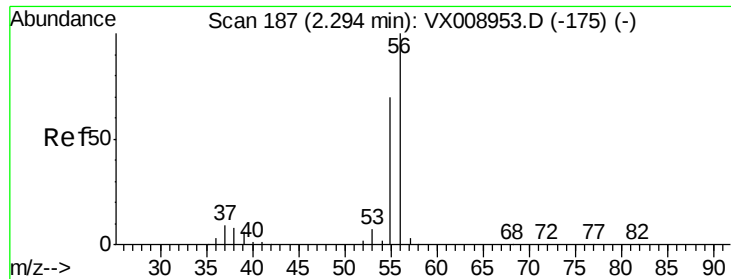


#12

1,1-Dichloroethene
 Concen: 0.547 ug/l
 RT: 2.37 min Scan# 200
 Delta R.T. -0.00 min
 Lab File: VX008964.D
 Acq: 15 Apr 2019 16:46

Tgt Ion	96	Resp	1298
Ion	Ratio	Lower	Upper
96	100		
61	153.4	142.2	213.2
98	65.4	50.9	76.3





#13

Acrolein

Concen: 9.984 ug/l

RT: 2.29 min Scan# 187

Delta R.T. 0.00 min

Lab File: VX008964.D

Acq: 15 Apr 2019 16:46

Instrument :

MSVOA_X

ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion: 56 Resp: 5974

Ion Ratio Lower Upper

56 100

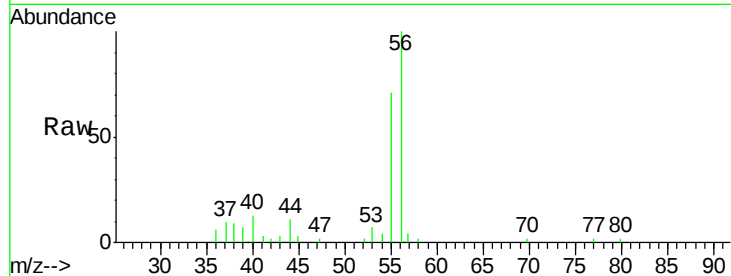
55 68.1 56.6 84.8

Manual Integrations

APPROVED

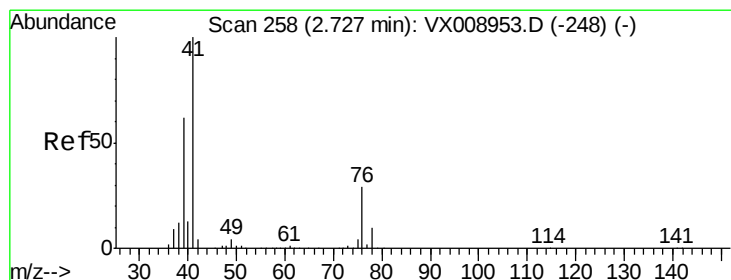
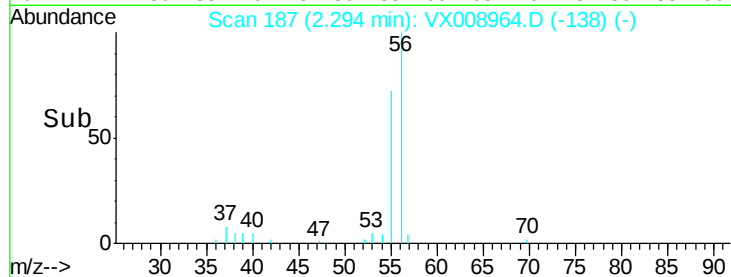
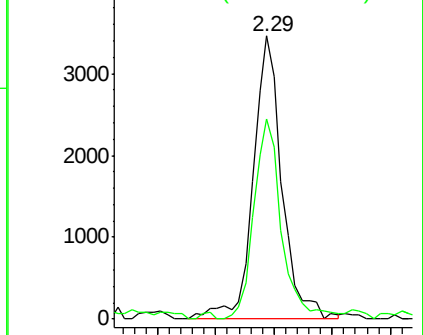
MMDadoda

4/16/2019 10:53:28 AM



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#14

Allyl chloride

Concen: 0.561 ug/l

RT: 2.73 min Scan# 258

Delta R.T. 0.00 min

Lab File: VX008964.D

Acq: 15 Apr 2019 16:46

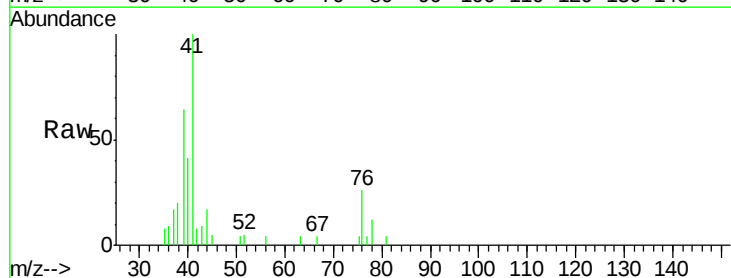
Tgt Ion: 41 Resp: 2904

Ion Ratio Lower Upper

41 100

39 75.1 46.7 70.1#

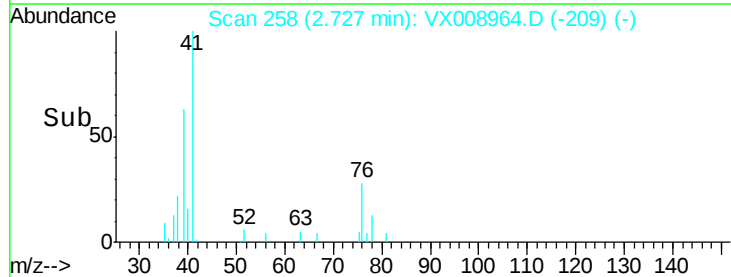
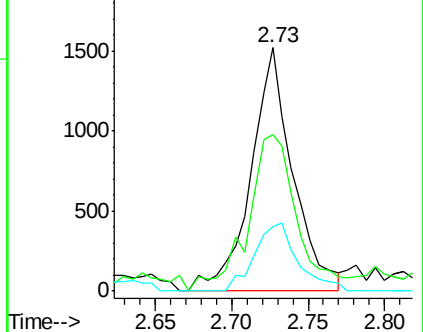
76 28.9 22.0 33.0

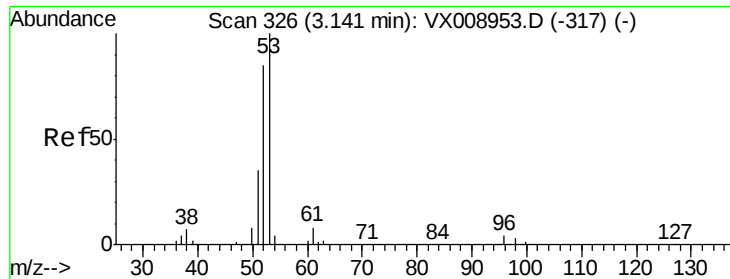


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 75.90 (75.60 to 76.60): VX0





#15

Acrylonitrile

Concen: 2.683 ug/l

RT: 3.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VX008964.D

Acq: 15 Apr 2019 16:46

Instrument :

MSVOA_X

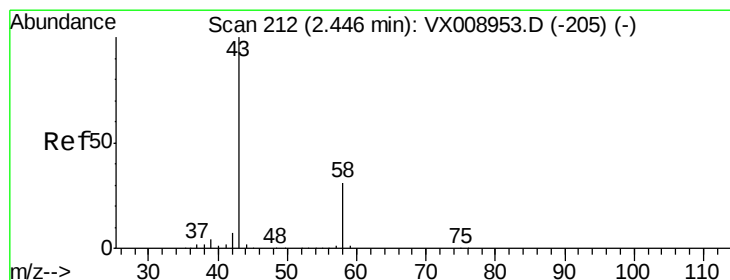
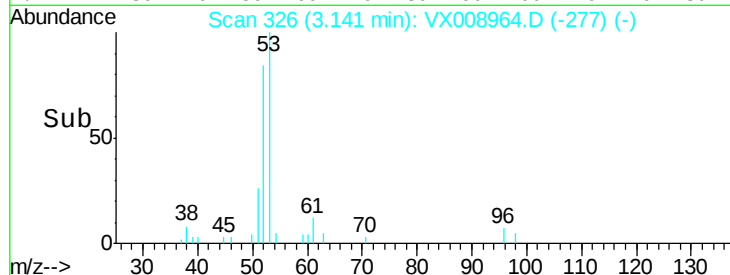
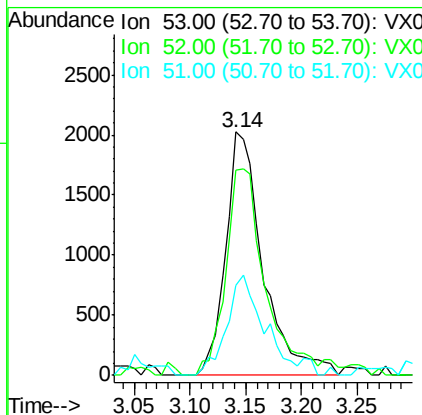
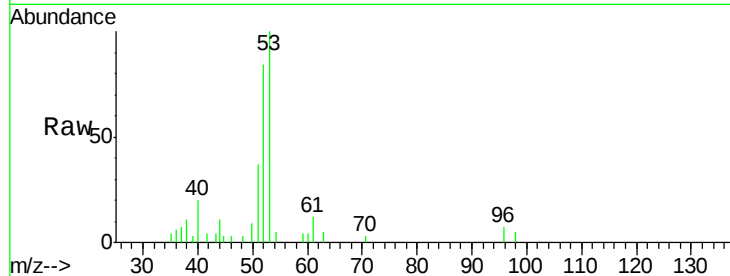
ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion:	53	Resp:	4716
Ion	Ratio	Lower	Upper
53	100		
52	88.5	66.6	100.0
51	40.6	28.3	42.5

Manual Integrations
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MMDadoda
4/16/2019 10:53:28 AM



#16

Acetone

Concen: 3.107 ug/l

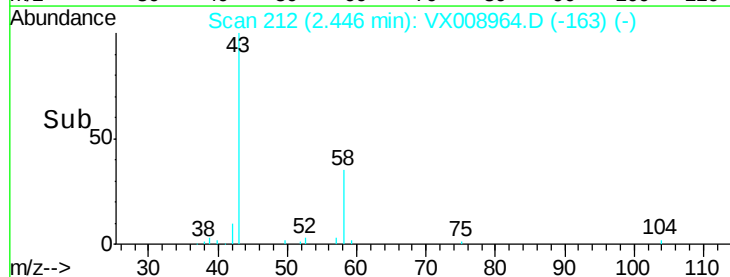
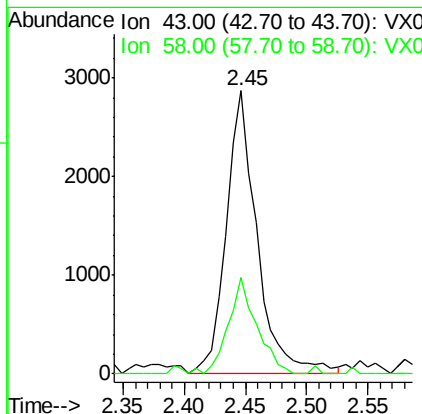
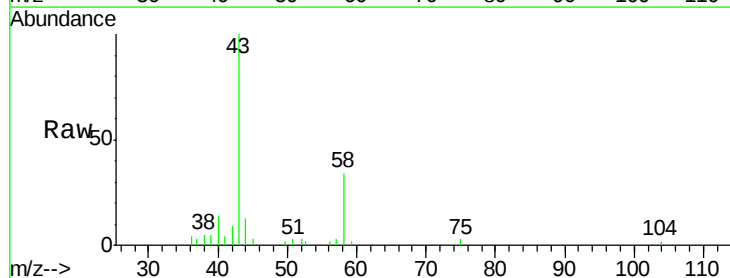
RT: 2.45 min Scan# 212

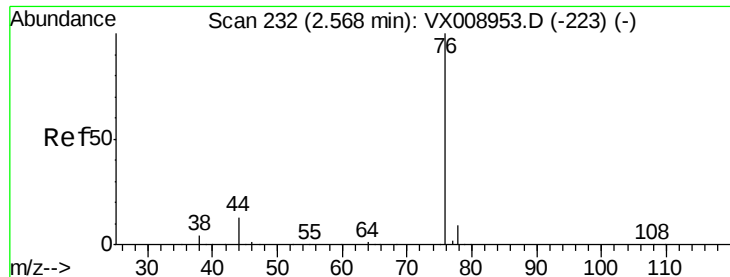
Delta R.T. 0.00 min

Lab File: VX008964.D

Acq: 15 Apr 2019 16:46

Tgt Ion:	43	Resp:	5027
Ion	Ratio	Lower	Upper
43	100		
58	34.2	24.8	37.2





#17

Carbon Disulfide

Concen: 0.555 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX008964.D

Acq: 15 Apr 2019 16:46

Instrument :

MSVOA_X

ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion: 76 Resp: 4092

Ion Ratio Lower Upper

76 100

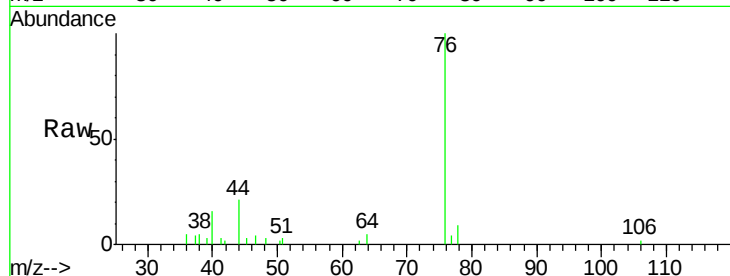
78 8.5 7.2 10.8

Manual Integrations

APPROVED

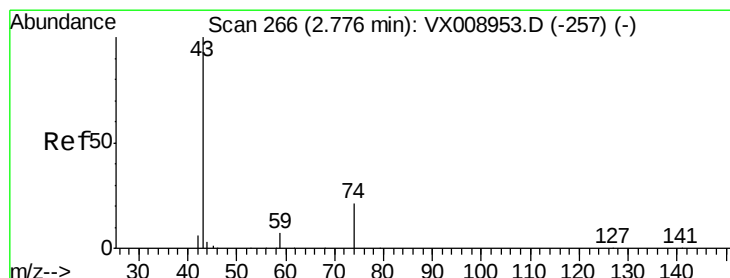
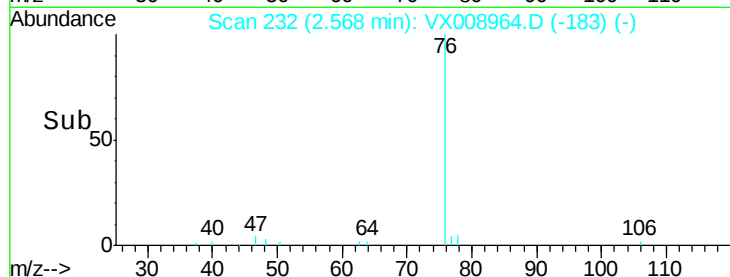
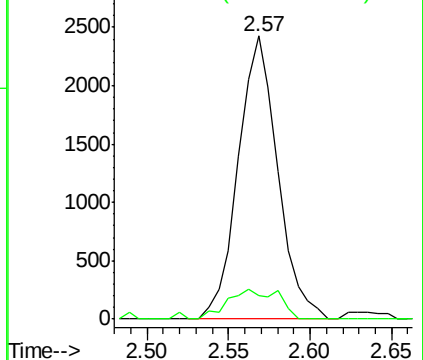
MMDadoda

4/16/2019 10:53:28 AM



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 0.673 ug/l

RT: 2.78 min Scan# 266

Delta R.T. -0.00 min

Lab File: VX008964.D

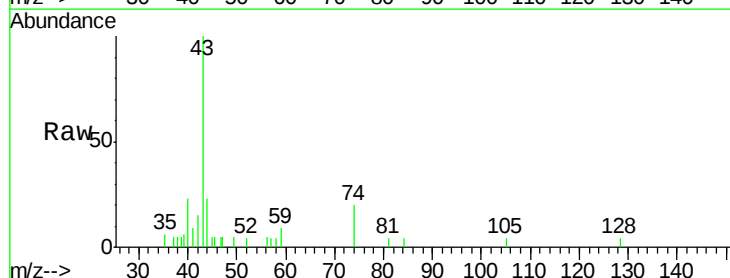
Acq: 15 Apr 2019 16:46

Tgt Ion: 43 Resp: 2718

Ion Ratio Lower Upper

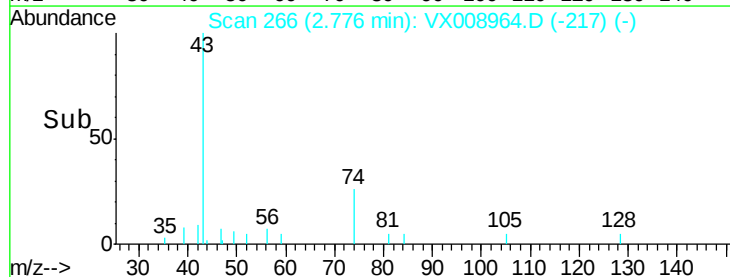
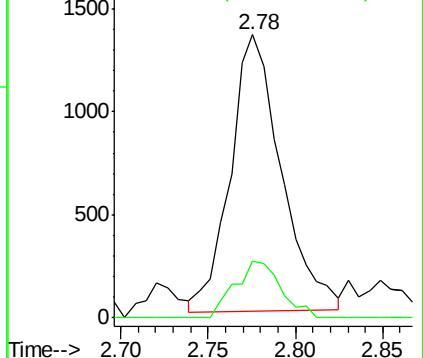
43 100

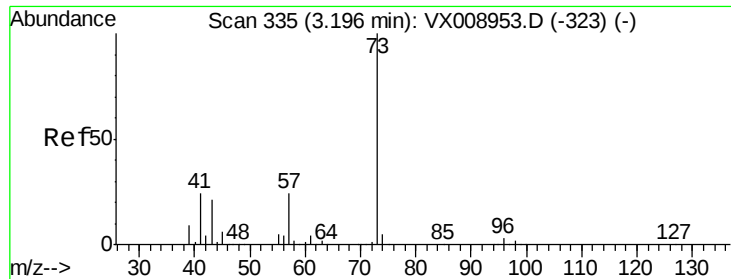
74 18.7 16.6 25.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#19

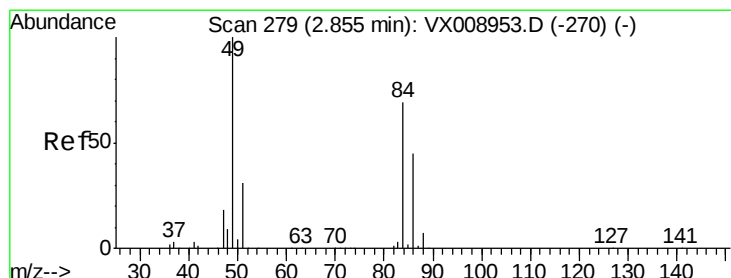
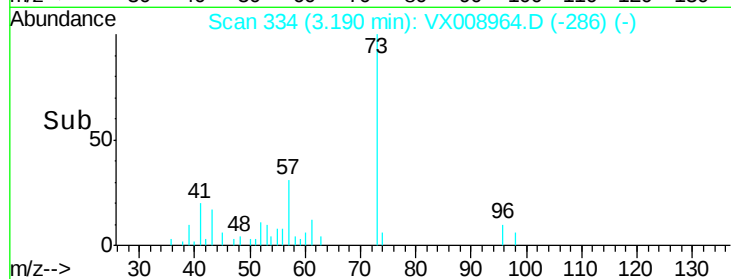
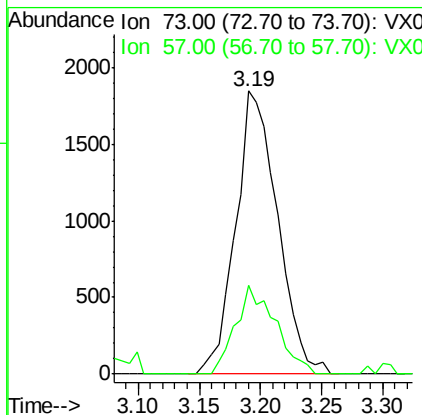
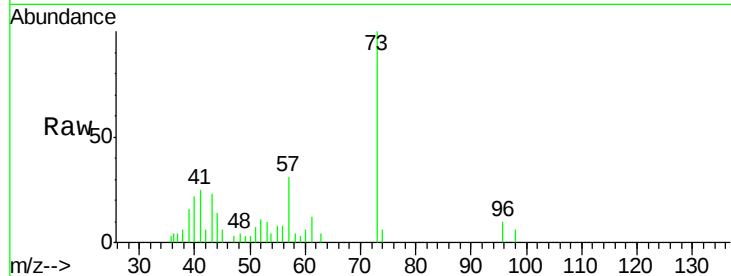
Methyl tert-butyl Ether
 Concen: 0.520 ug/l
 RT: 3.19 min Scan# 334
 Delta R.T. -0.01 min
 Lab File: VX008964.D
 Acq: 15 Apr 2019 16:46

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

Tot Ion	Ratio	Lower	Upper
73	100		
57	31.5	19.2	28.8#

Manual Integrations
 APPROVED

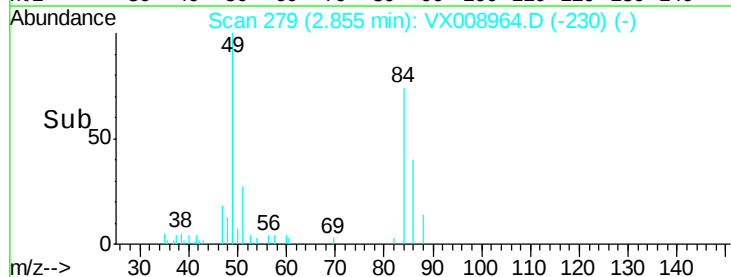
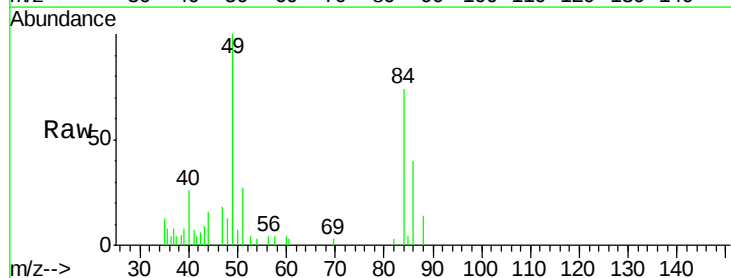
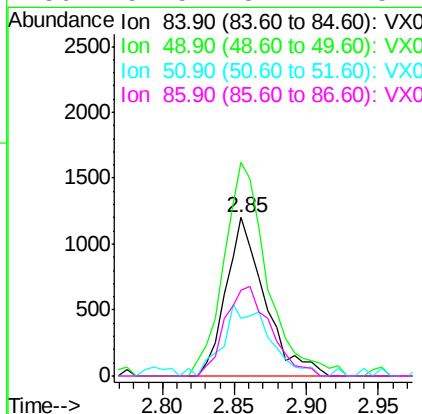
MMDadoda
 4/16/2019 10:53:28 AM

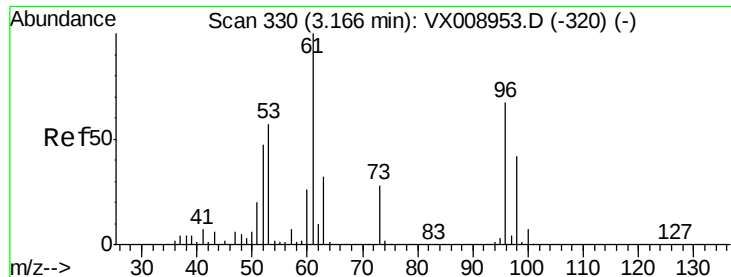


#20

Methylene Chloride
 Concen: 0.821 ug/l
 RT: 2.85 min Scan# 279
 Delta R.T. -0.00 min
 Lab File: VX008964.D
 Acq: 15 Apr 2019 16:46

Tgt Ion	Ratio	Lower	Upper
84	100		
49	134.9	115.4	173.0
51	31.2	35.8	53.6#
86	54.5	52.1	78.1





#21

trans-1,2-Dichloroethene

Concen: 0.548 ug/l

RT: 3.16 min Scan# 329

Delta R.T. -0.01 min

Lab File: VX008964.D

Acq: 15 Apr 2019 16:46

Instrument :

MSVOA_X

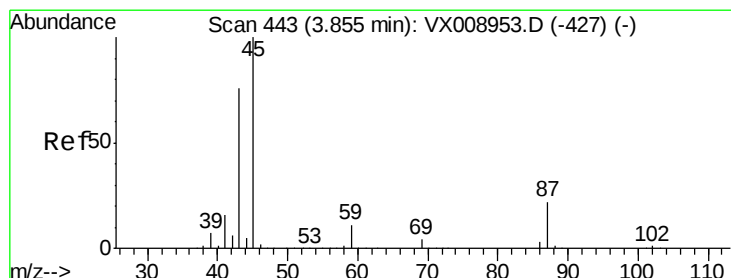
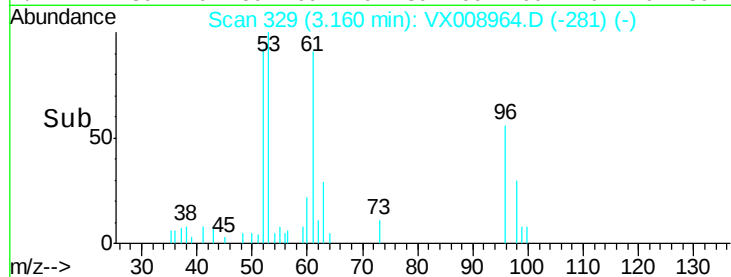
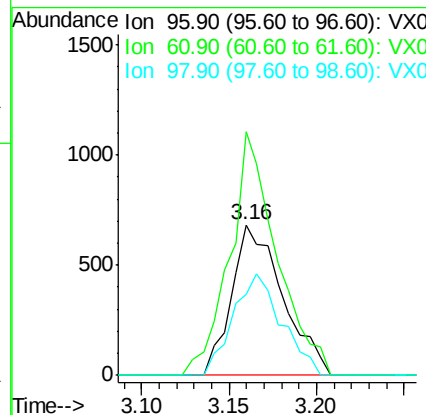
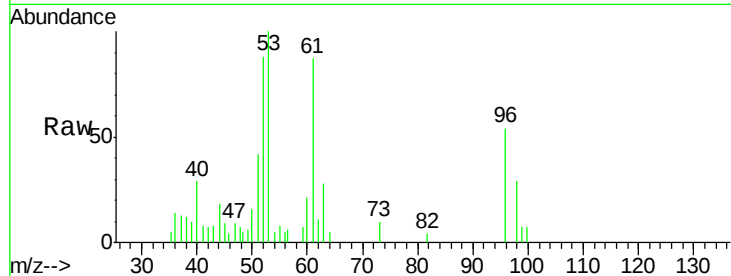
ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion:	96	Resp:	1388
Ion	Ratio	Lower	Upper
96	100		
61	161.8	120.3	180.5
98	54.0	50.2	75.2

Manual Integrations
APPROVED

MMDadoda
4/16/2019 10:53:28 AM



#22

Diisopropyl ether

Concen: 0.550 ug/l

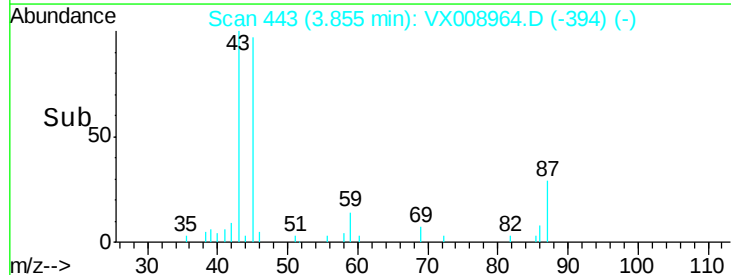
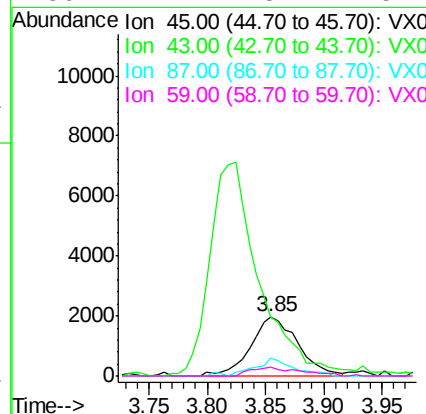
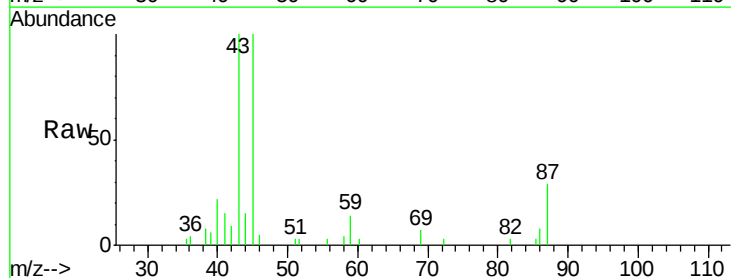
RT: 3.85 min Scan# 443

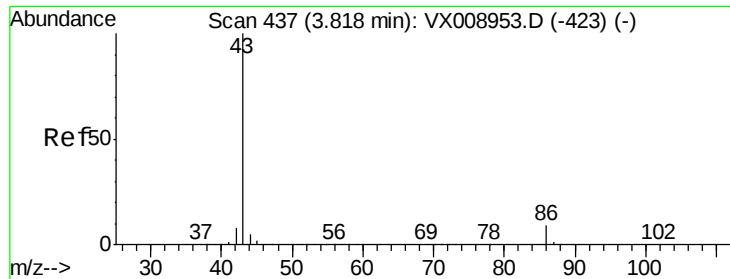
Delta R.T. 0.00 min

Lab File: VX008964.D

Acq: 15 Apr 2019 16:46

Tgt Ion:	45	Resp:	5539
Ion	Ratio	Lower	Upper
45	100		
43	91.6	60.6	91.0#
87	30.2	17.8	26.8#
59	14.4	8.7	13.1#





#23

Vinyl Acetate

Concen: 2.379 ug/l

RT: 3.82 min Scan# 438

Delta R.T. 0.01 min

Lab File: VX008964.D

Acq: 15 Apr 2019 16:46

Instrument :

MSVOA_X

ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion: 43 Resp: 21044

Ion Ratio Lower Upper

43 100

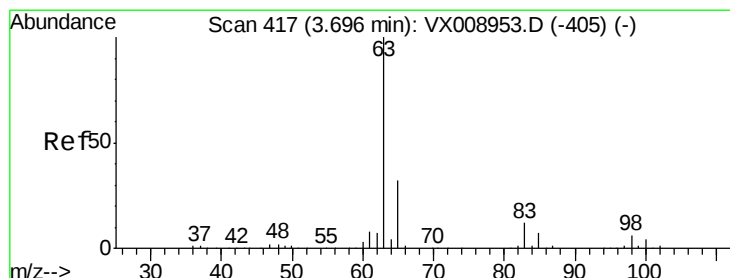
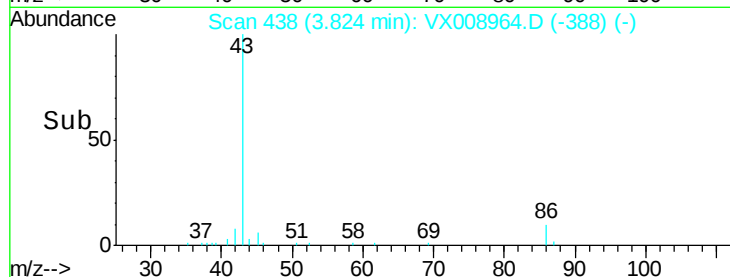
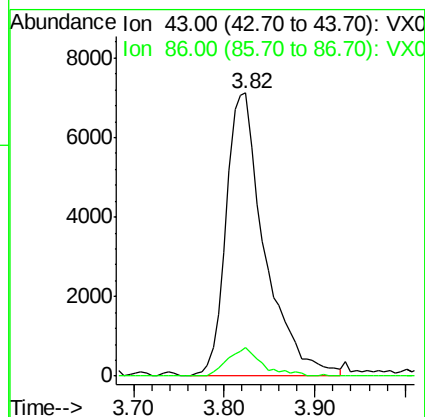
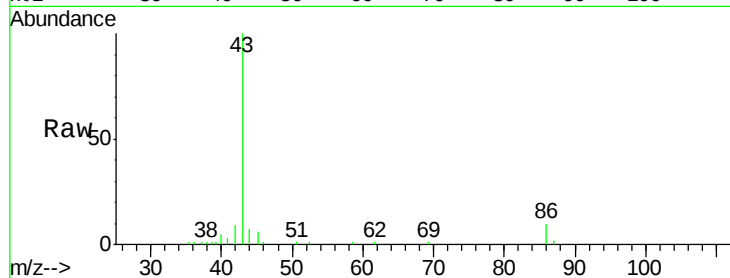
86 10.1 7.1 10.7

Manual Integrations

APPROVED

MMDadoda

4/16/2019 10:53:28 AM



#24

1,1-Dichloroethane

Concen: 0.570 ug/l

RT: 3.70 min Scan# 417

Delta R.T. 0.00 min

Lab File: VX008964.D

Acq: 15 Apr 2019 16:46

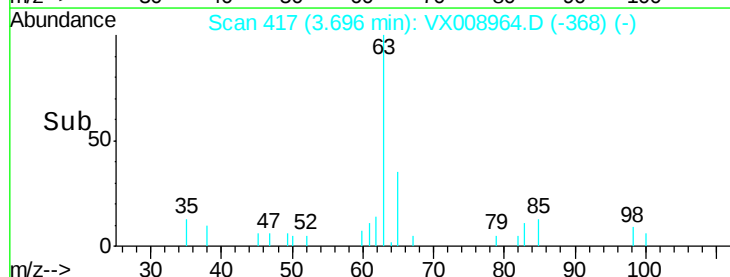
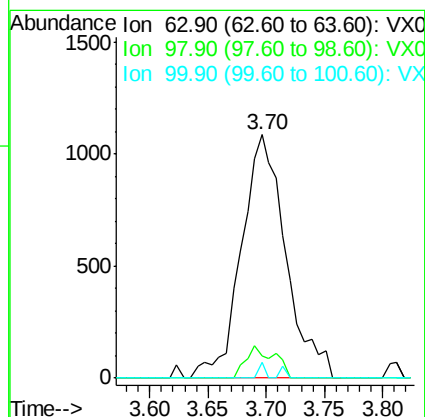
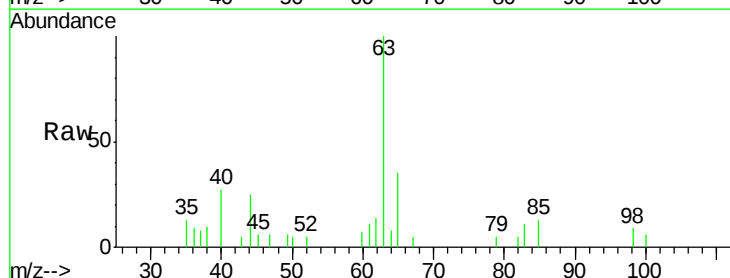
Tgt Ion: 63 Resp: 2882

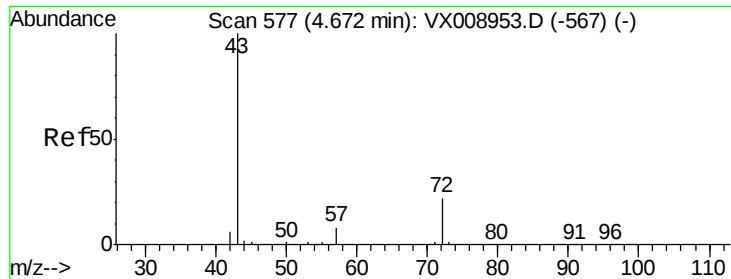
Ion Ratio Lower Upper

63 100

98 9.1 3.1 9.3

100 6.4 1.9 5.7#





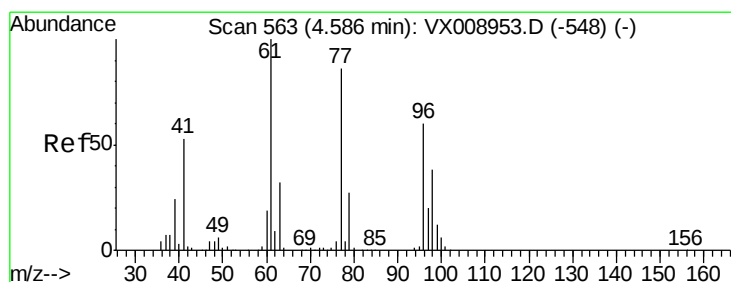
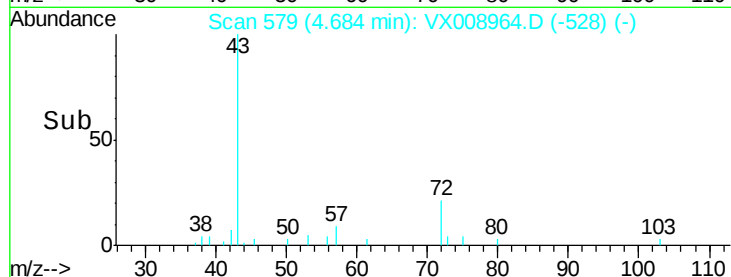
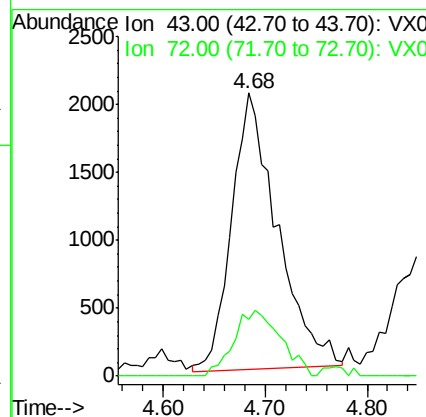
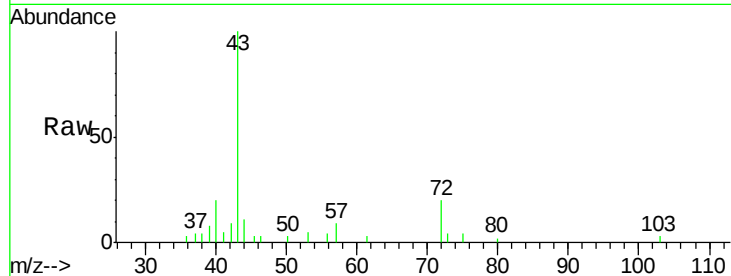
#25
2-Butanone
Concen: 2.444 ug/l
RT: 4.68 min Scan# 579
Delta R.T. 0.01 min
Lab File: VX008964.D
Acq: 15 Apr 2019 16:46

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

Tot Ion: 43 Resp: 6319
Ion Ratio Lower Upper
43 100
72 20.9 17.5 26.3

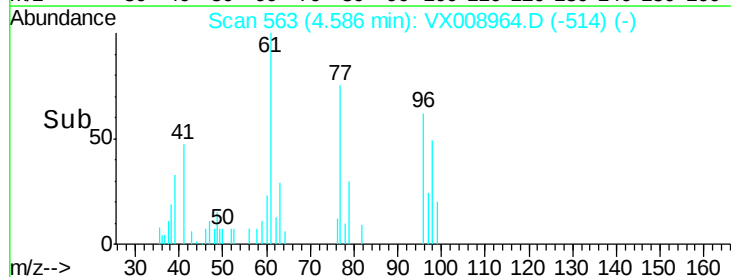
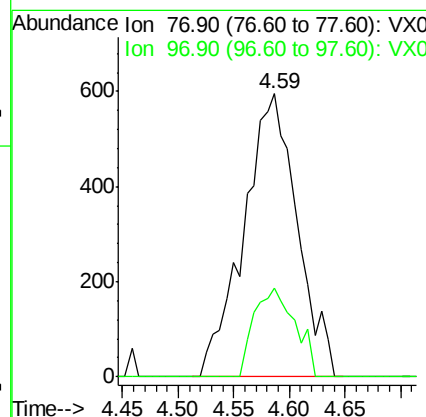
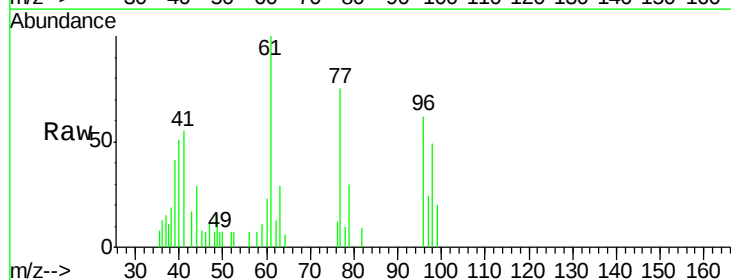
Manual Integrations
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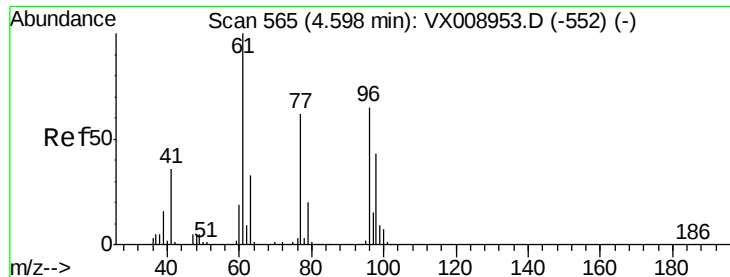
MMDadoda
4/16/2019 10:53:28 AM



#26
2,2-Dichloropropane
Concen: 0.527 ug/l
RT: 4.59 min Scan# 563
Delta R.T. -0.00 min
Lab File: VX008964.D
Acq: 15 Apr 2019 16:46

Tgt Ion: 77 Resp: 1995
Ion Ratio Lower Upper
77 100
97 23.9 11.7 35.0





#27

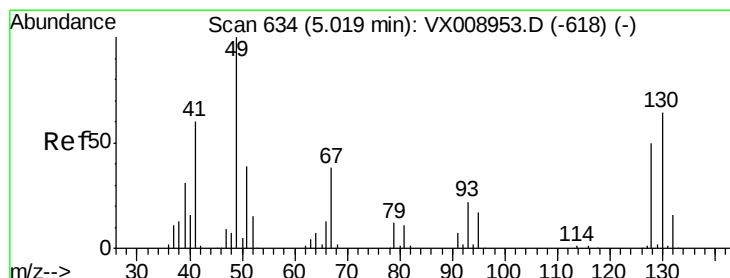
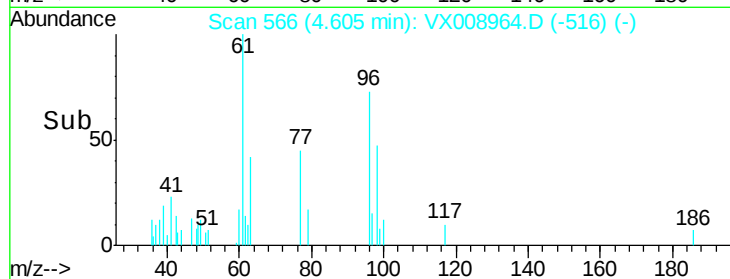
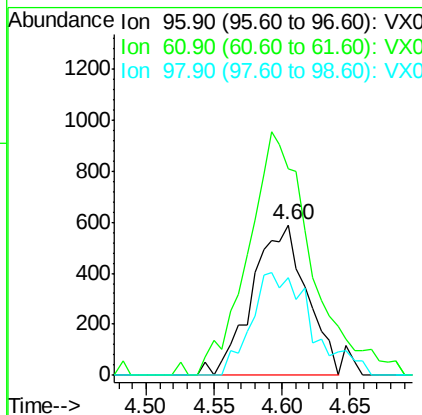
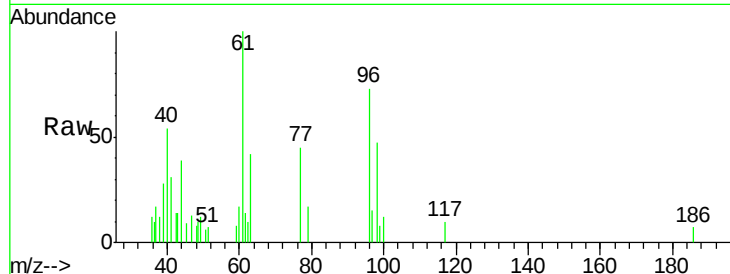
cis-1,2-Dichloroethene
Concen: 0.574 ug/l
RT: 4.60 min Scan# 566
Delta R.T. 0.01 min
Lab File: VX008964.D
Acq: 15 Apr 2019 16:46

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

Tot Ion	Ratio	Lower	Upper
96	100		
61	188.2	0.0	322.0
98	75.3	0.0	128.4

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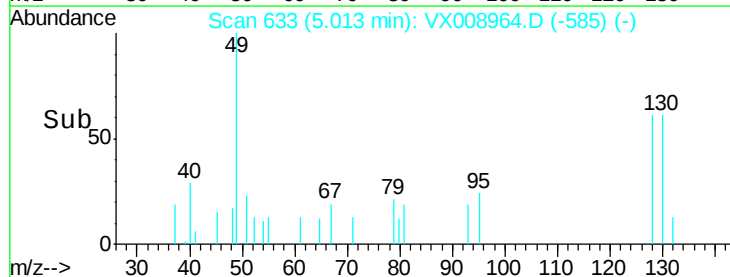
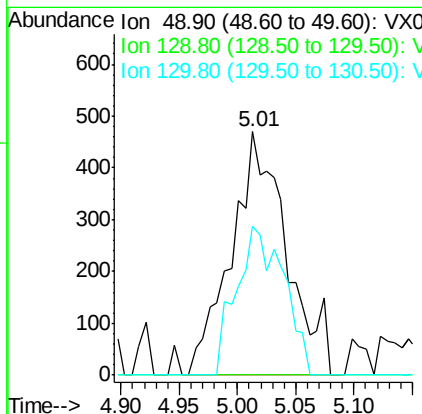
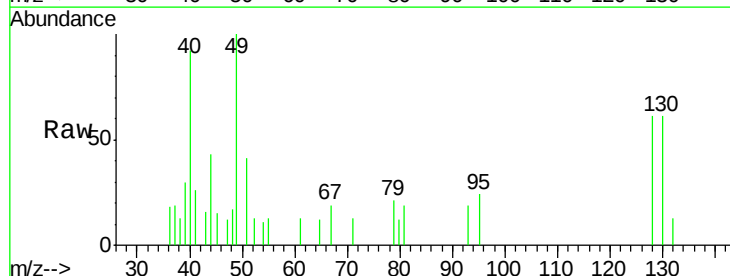
MMDadoda
4/16/2019 10:53:28 AM

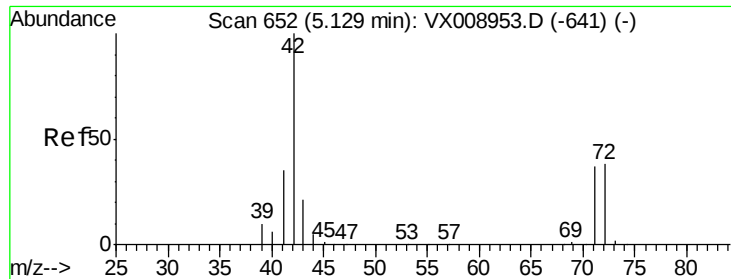


#28

Bromochloromethane
Concen: 0.661 ug/l
RT: 5.01 min Scan# 633
Delta R.T. -0.01 min
Lab File: VX008964.D
Acq: 15 Apr 2019 16:46

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.6
130	52.4	50.4	75.6





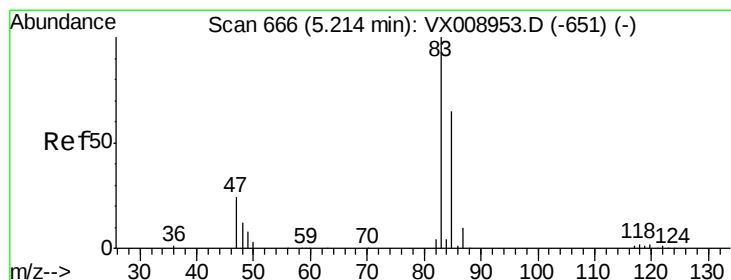
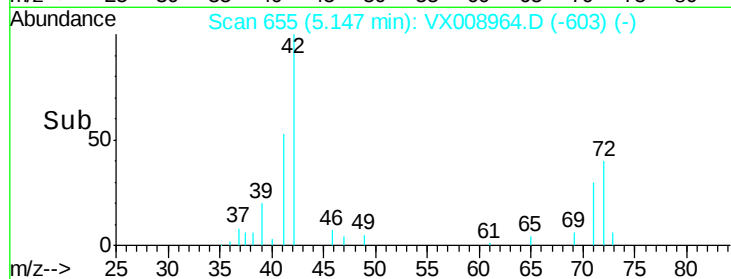
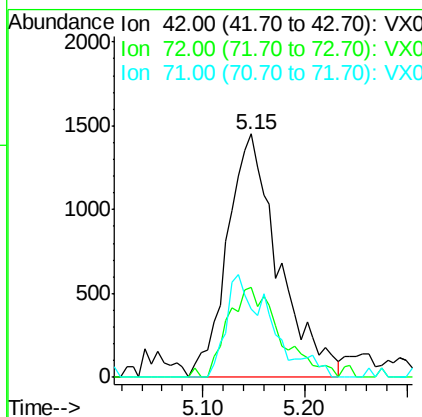
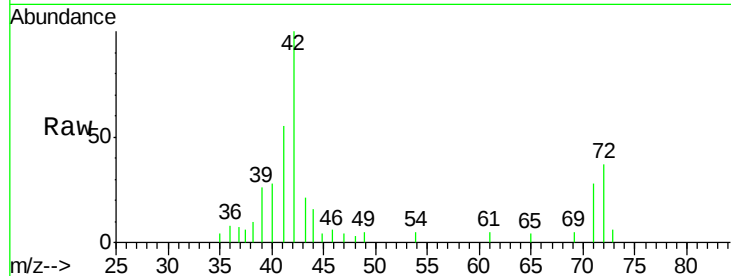
#29
Tetrahydrofuran
Concen: 2.926 ug/l
RT: 5.15 min Scan# 655
Delta R.T. 0.02 min
Lab File: VX008964.D
Acq: 15 Apr 2019 16:46

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

Tot Ion	Ratio	Lower	Upper
42	100		
72	38.0	30.6	45.8
71	21.5	28.8	43.2

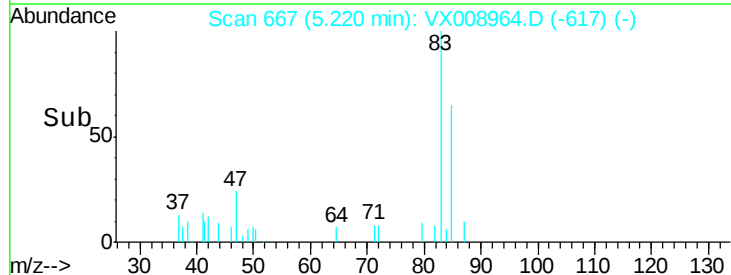
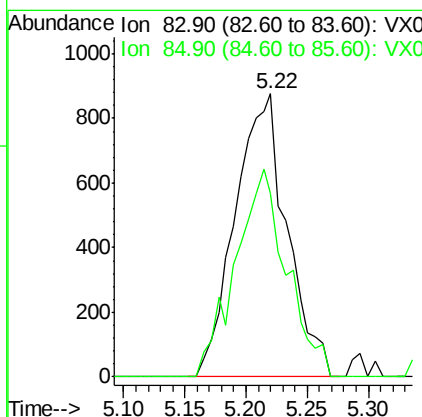
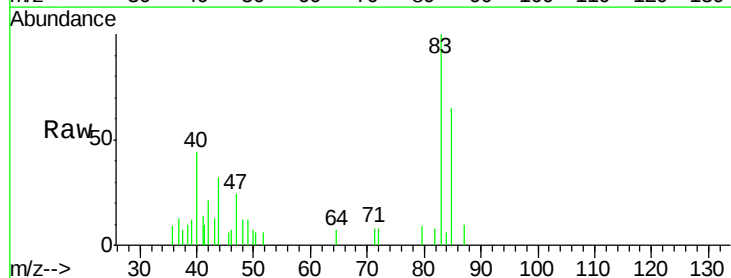
Manual Integrations
APPROVED

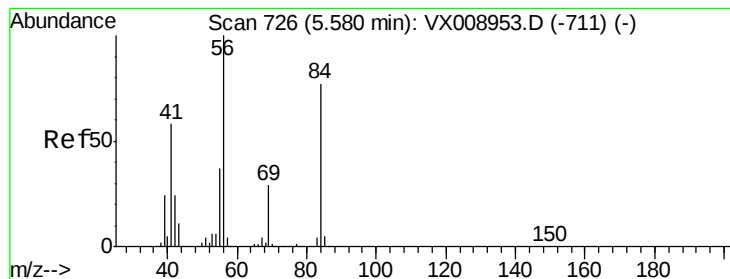
MMDadoda
4/16/2019 10:53:28 AM



#30
Chloroform
Concen: 0.572 ug/l
RT: 5.22 min Scan# 667
Delta R.T. 0.01 min
Lab File: VX008964.D
Acq: 15 Apr 2019 16:46

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.8	51.9	77.9





#31

Cyclohexane

Concen: 0.540 ug/l

RT: 5.58 min Scan# 726

Delta R.T. 0.00 min

Lab File: VX008964.D

Acq: 15 Apr 2019 16:46

Instrument :

MSVOA_X

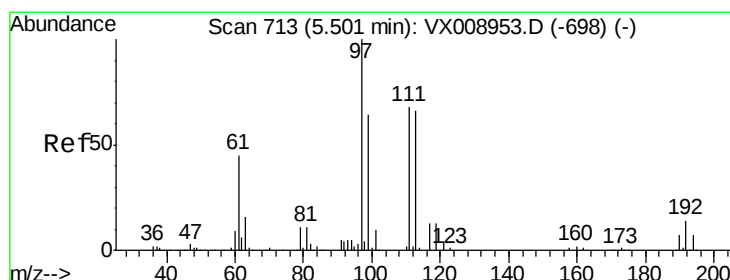
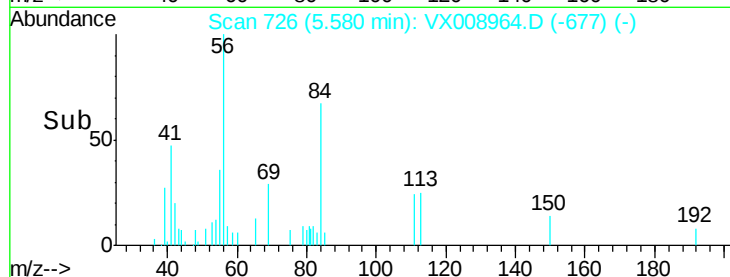
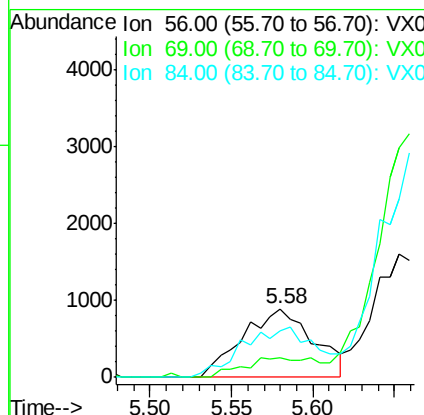
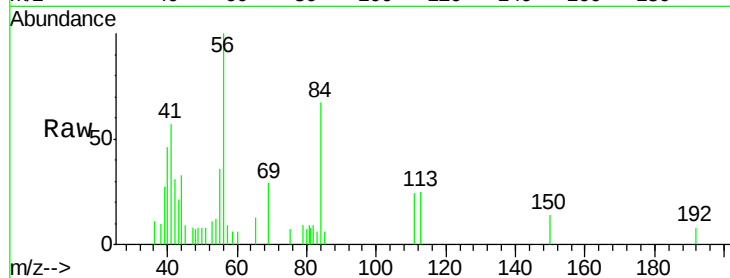
ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion:	56	Resp:	2685
Ion	Ratio	Lower	Upper
56	100		
69	30.9	23.3	34.9
84	71.6	61.7	92.5

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 0.558 ug/l

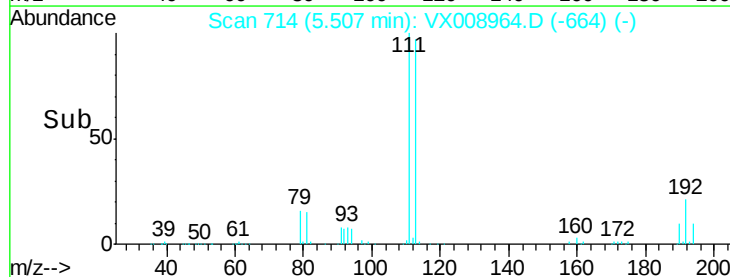
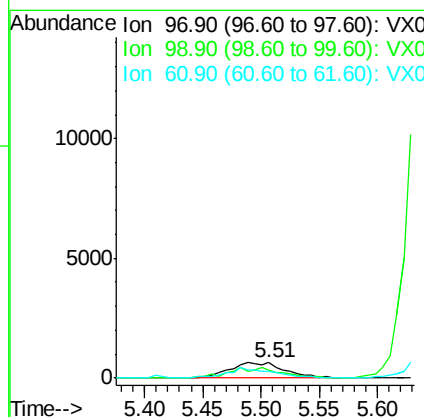
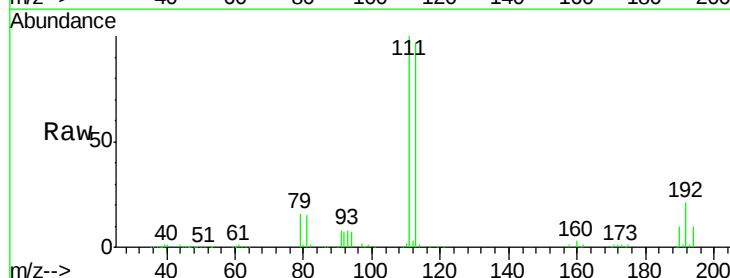
RT: 5.51 min Scan# 714

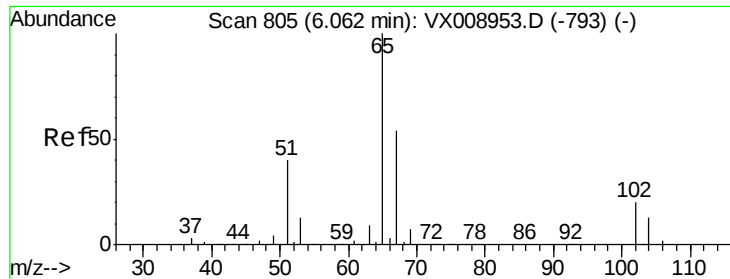
Delta R.T. 0.01 min

Lab File: VX008964.D

Acq: 15 Apr 2019 16:46

Tgt Ion:	97	Resp:	2091
Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.6	77.4#
61	0.0	37.9	56.9#





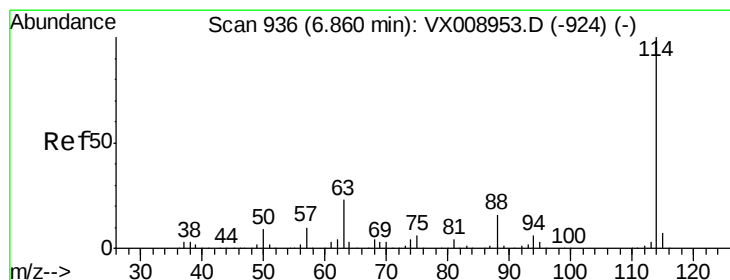
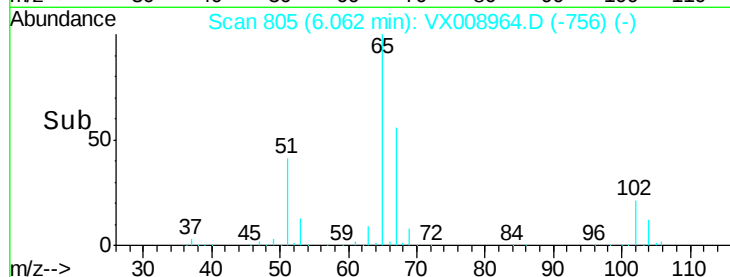
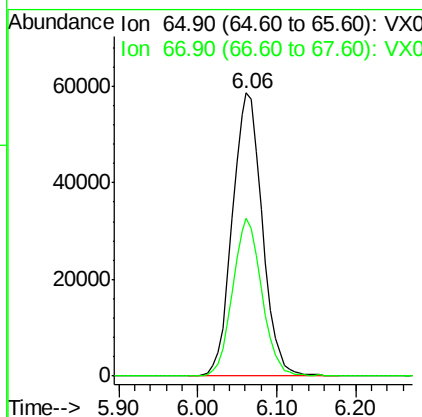
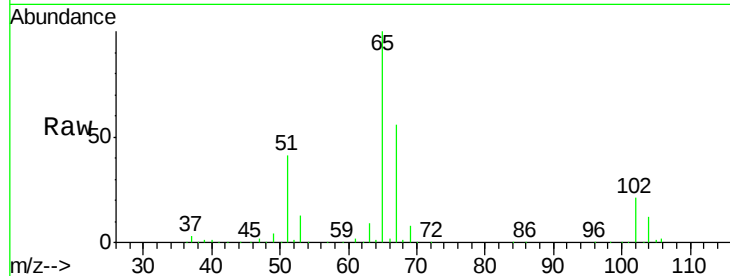
#33
 1,2-Dichloroethane-d4
 Concen: 49.527 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX008964.D
 Acq: 15 Apr 2019 16:46

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

Tot Ion	Ratio	Resp	Lower	Upper
65	100	154512		
67	54.4	0.0	108.6	

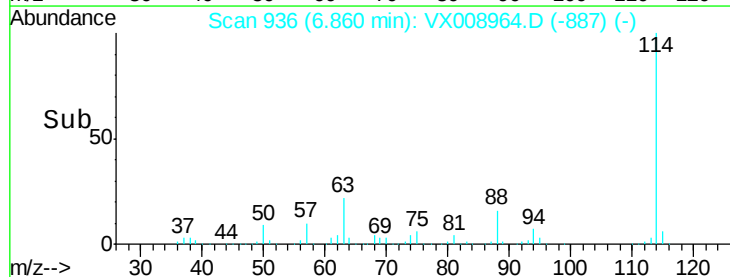
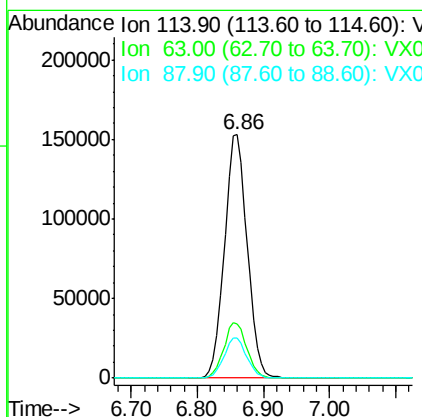
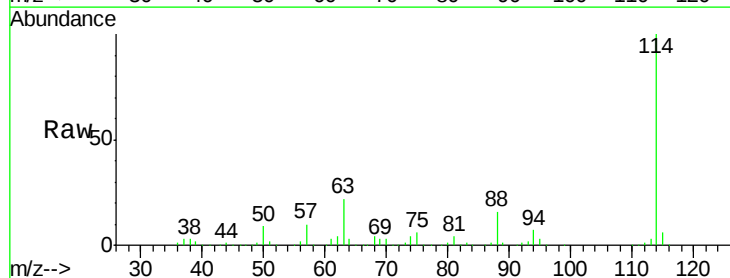
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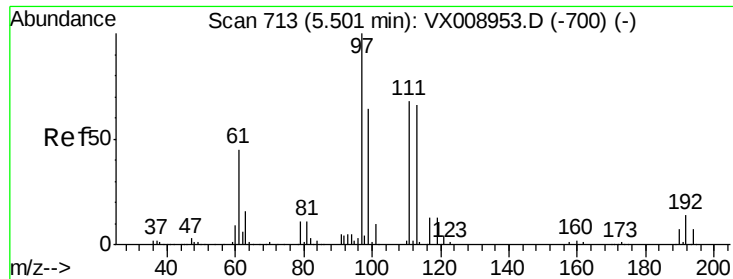
MMDadoda
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX008964.D
 Acq: 15 Apr 2019 16:46

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	364814		
63	22.4	0.0	46.0	
88	16.4	0.0	32.6	





#35

Dibromofluoromethane

Concen: 47.387 ug/l

RT: 5.49 min Scan# 712

Delta R.T. -0.01 min

Lab File: VX008964.D

Acq: 15 Apr 2019 16:46

Instrument :

MSVOA_X

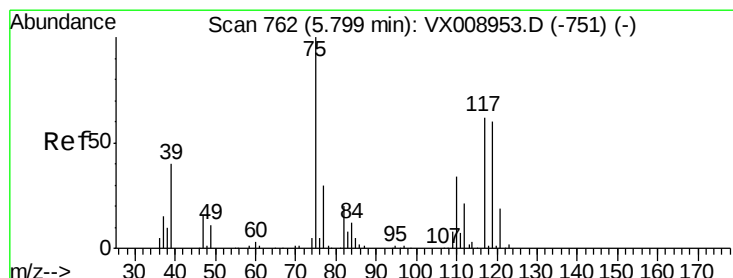
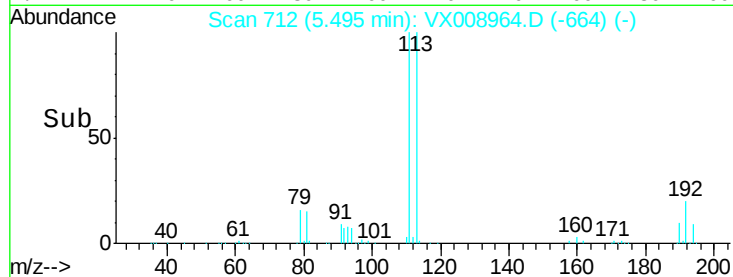
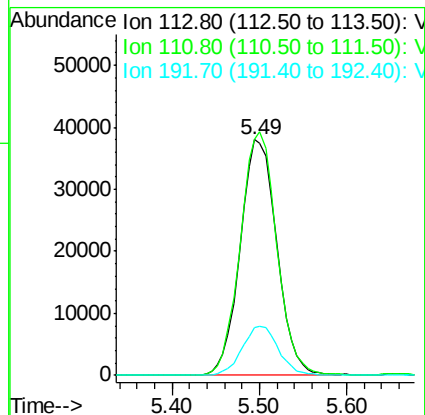
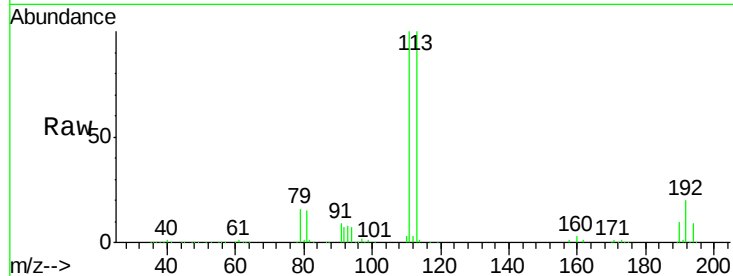
ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion:	113	Resp:	110947
Ion Ratio	Lower	Upper	
113	100		
111	102.6	82.9	124.3
192	20.7	17.4	26.0

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#36

1,1-Dichloropropene

Concen: 0.573 ug/l

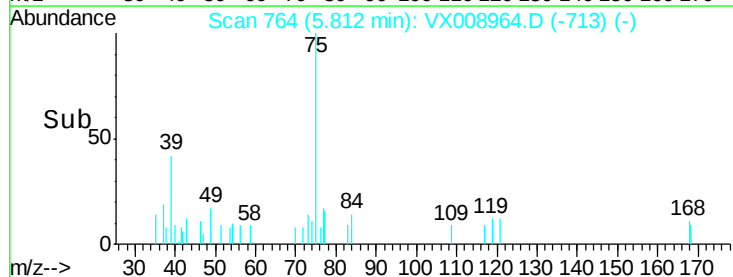
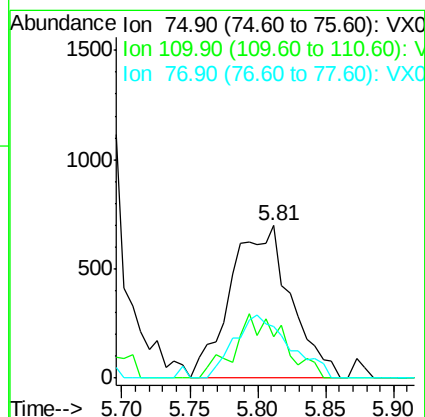
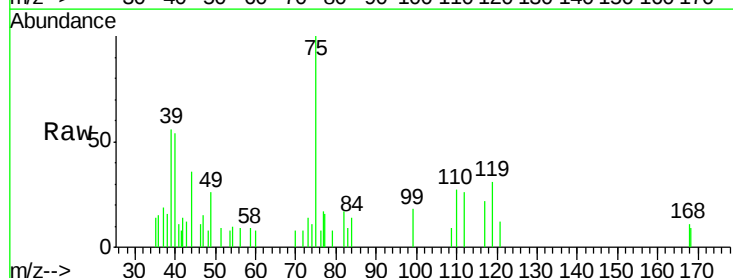
RT: 5.81 min Scan# 764

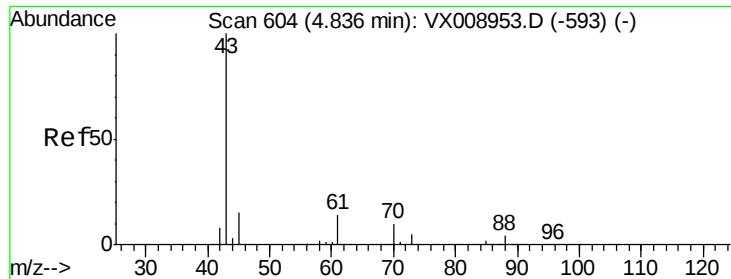
Delta R.T. 0.01 min

Lab File: VX008964.D

Acq: 15 Apr 2019 16:46

Tgt Ion:	75	Resp:	2161
Ion Ratio	Lower	Upper	
75	100		
110	34.4	16.9	50.7
77	38.0	25.0	37.4#





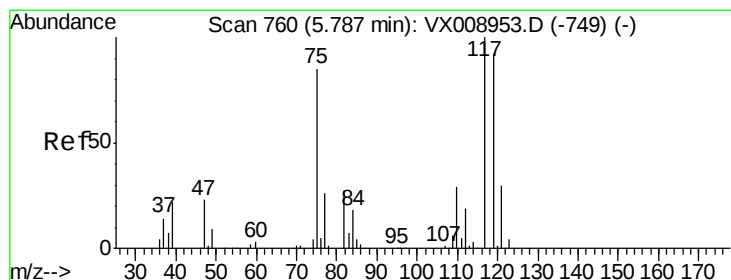
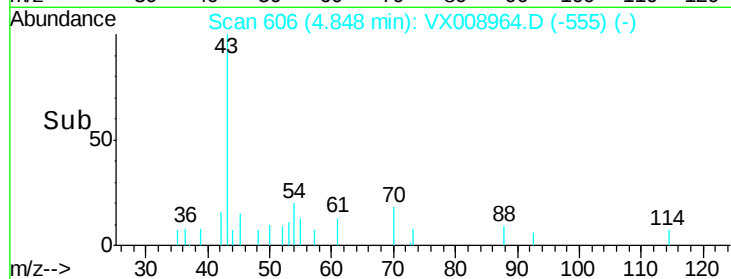
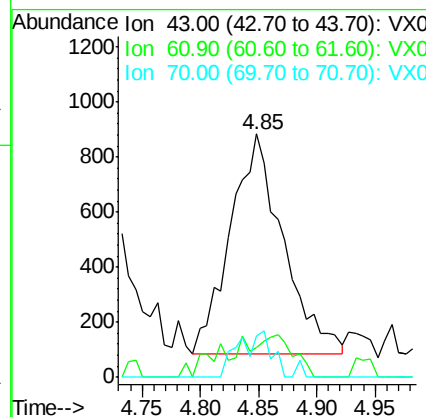
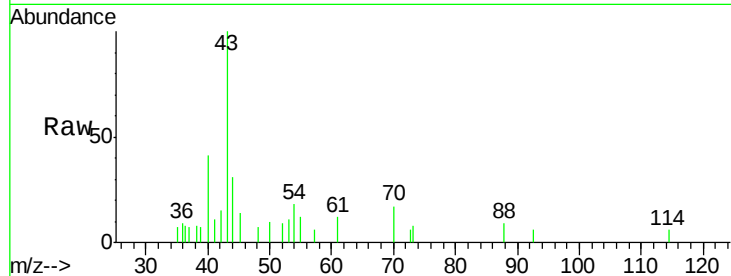
#37
Ethyl Acetate
Concen: 0.518 ug/l
RT: 4.85 min Scan# 606
Delta R.T. 0.01 min
Lab File: VX008964.D
Acq: 15 Apr 2019 16:46

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

Tot Ion	Ratio	Lower	Upper
43	100		
61	11.2	10.6	15.8
70	7.0	7.7	11.5

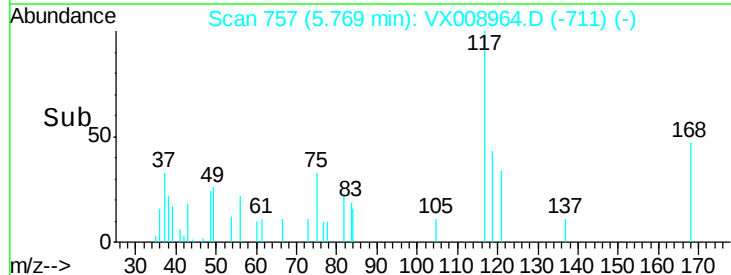
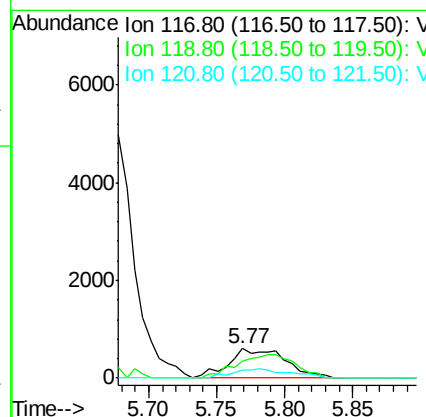
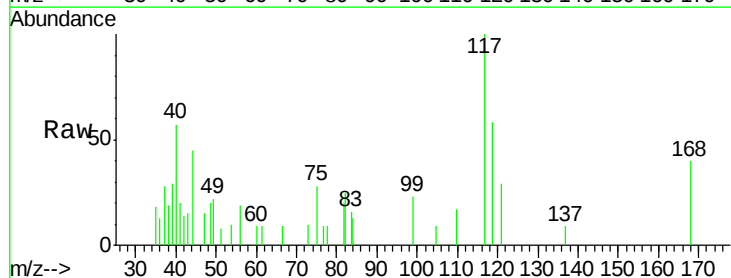
Manual Integrations
APPROVED

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4/16/2019 10:53:28 AM



#38
Carbon Tetrachloride
Concen: 0.551 ug/l
RT: 5.77 min Scan# 757
Delta R.T. -0.02 min
Lab File: VX008964.D
Acq: 15 Apr 2019 16:46

Tgt Ion	Ratio	Lower	Upper
117	100		
119	58.5	73.8	110.8
121	28.7	23.6	35.4





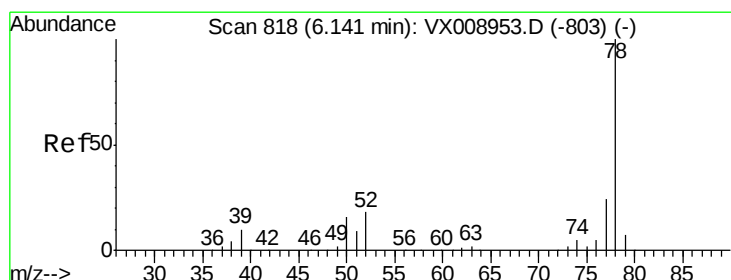
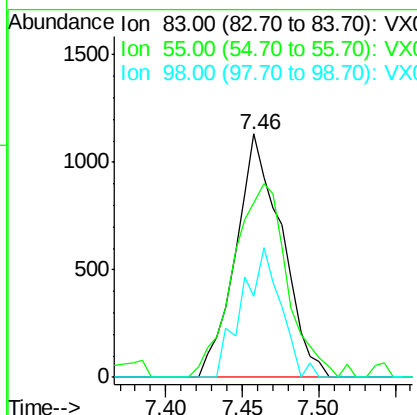
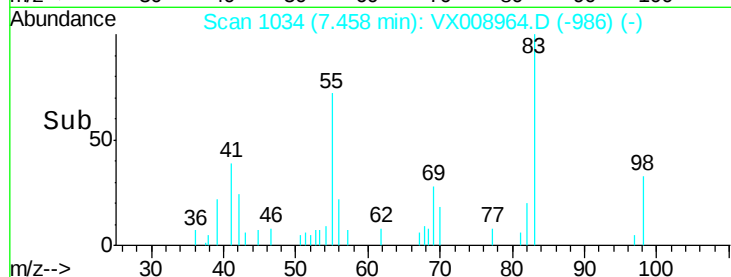
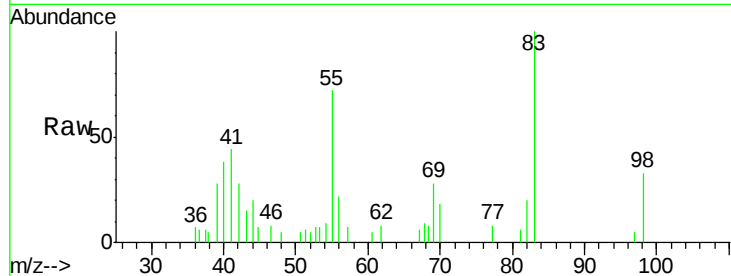
#39
Methvlcvclohexane
Concen: 0.516 ug/l
RT: 7.46 min Scan# 1034
Delta R.T. -0.01 min
Lab File: VX008964.D
Acq: 15 Apr 2019 16:46

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

Tot Ion	83	Resp	2370
Ion	Ratio	Lower	Upper
83	100		
55	71.9	67.1	100.7
98	33.4	35.1	52.7#

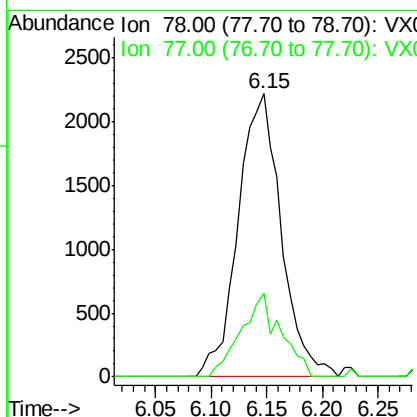
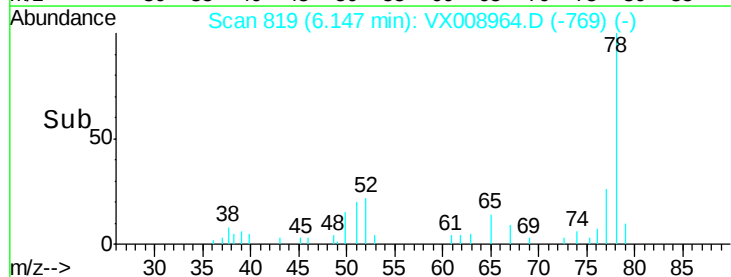
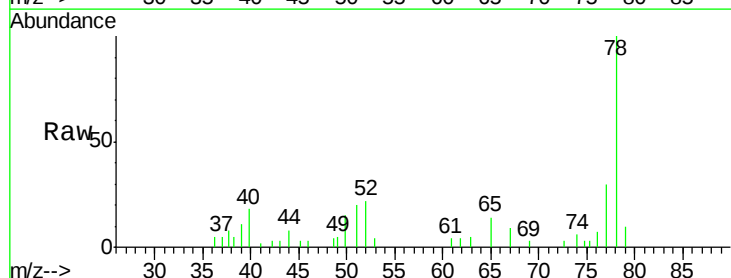
Manual Integrations
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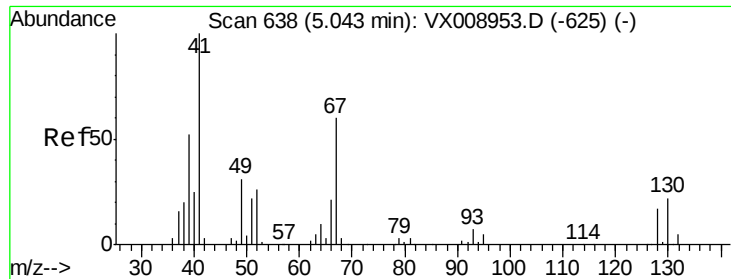
MMDadoda
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#40
Benzene
Concen: 0.538 ug/l
RT: 6.15 min Scan# 819
Delta R.T. 0.01 min
Lab File: VX008964.D
Acq: 15 Apr 2019 16:46

Tgt Ion	78	Resp	5984
Ion	Ratio	Lower	Upper
78	100		
77	29.7	19.0	28.6#





#41

Methacrylonitrile

Concen: 0.625 ug/l

RT: 5.06 min Scan# 640

Delta R.T. 0.01 min

Lab File: VX008964.D

Acq: 15 Apr 2019 16:46

Instrument :

MSVOA_X

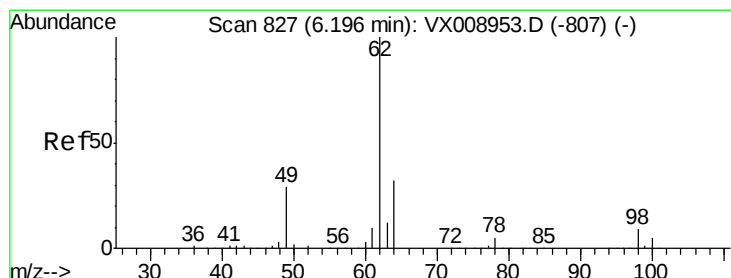
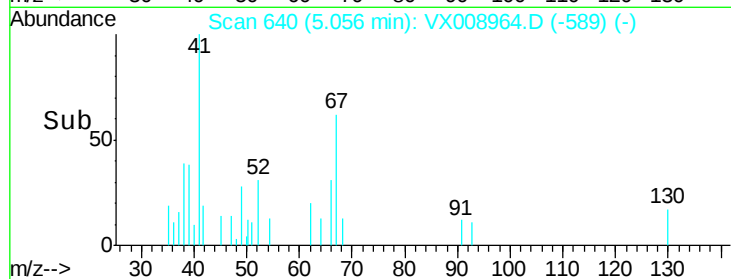
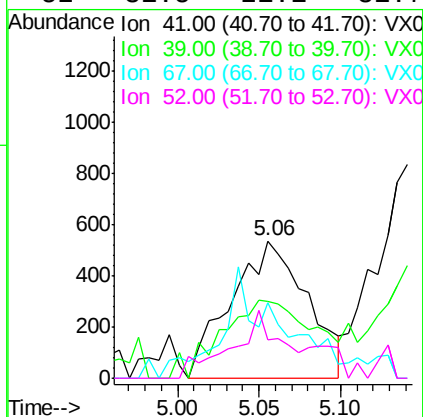
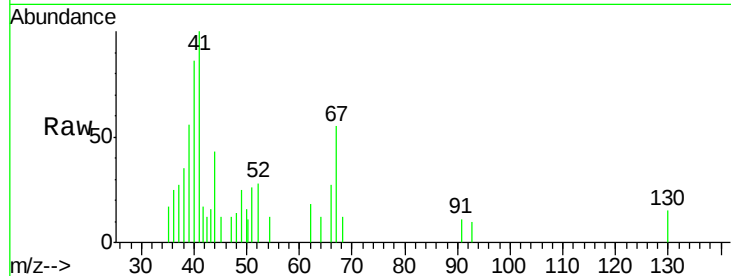
ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion:	41	Resp:	1741
Ion	Ratio	Lower	Upper
41	100		
39	69.0	41.8	62.6#
67	35.3	50.2	75.4#
52	31.5	21.1	31.7

Manual Integrations
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MMDadoda
4/16/2019 10:53:28 AM



#42

1,2-Dichloroethane

Concen: 0.657 ug/l

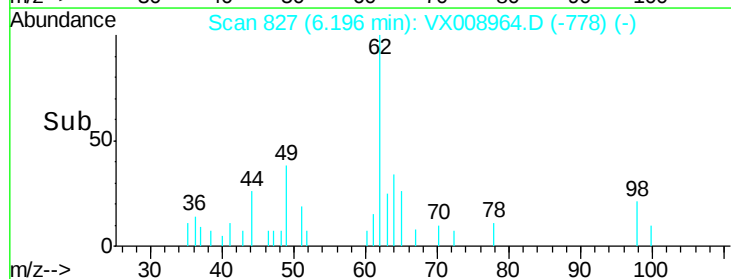
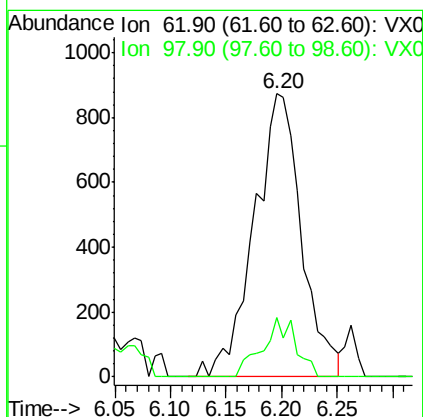
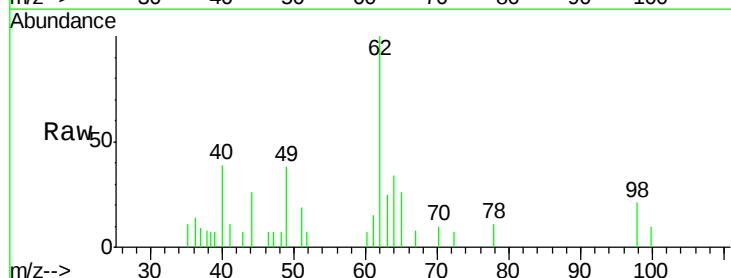
RT: 6.20 min Scan# 827

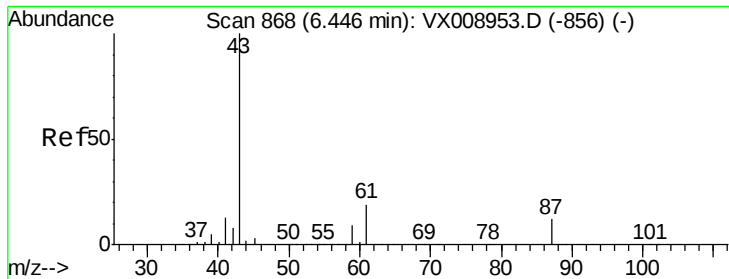
Delta R.T. -0.00 min

Lab File: VX008964.D

Acq: 15 Apr 2019 16:46

Tgt Ion:	62	Resp:	2591
Ion	Ratio	Lower	Upper
62	100		
98	14.7	0.0	18.4





#43

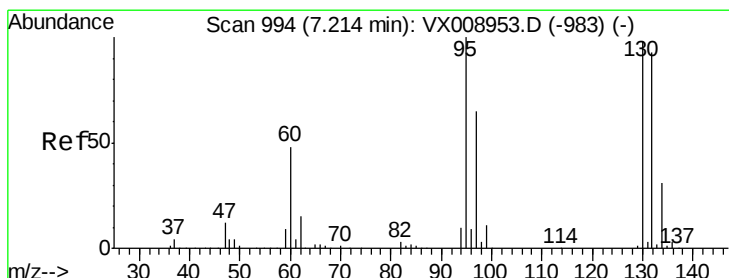
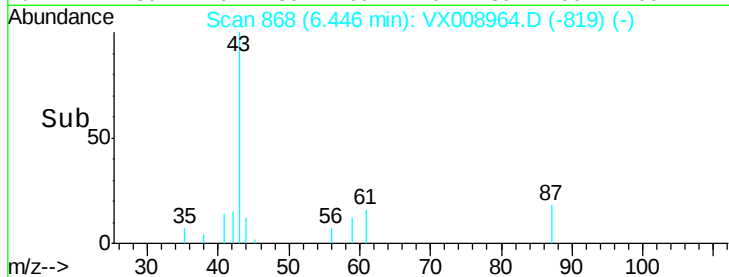
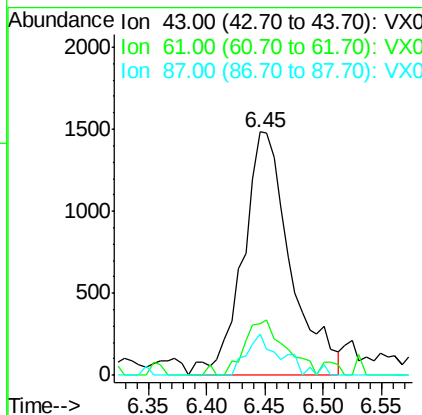
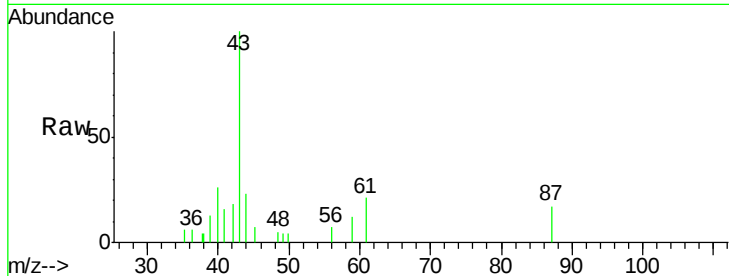
Isopropyl Acetate
 Concen: 0.538 ug/l
 RT: 6.45 min Scan# 868
 Delta R.T. -0.00 min
 Lab File: VX008964.D
 Acq: 15 Apr 2019 16:46

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

Tot Ion	Ratio	Lower	Upper
43	100		
61	19.3	15.4	23.0
87	11.9	9.0	13.4

Manual Integrations
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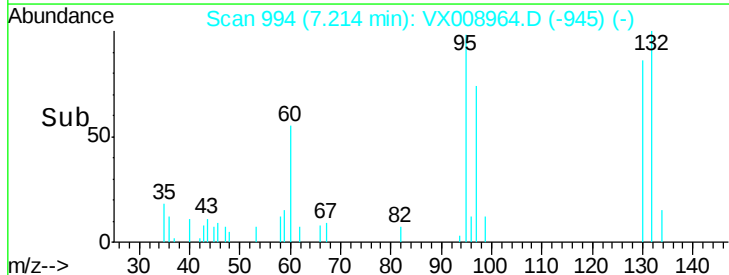
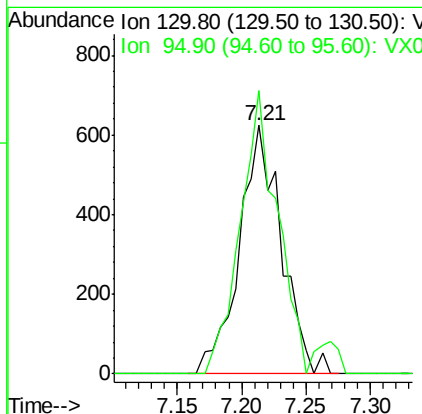
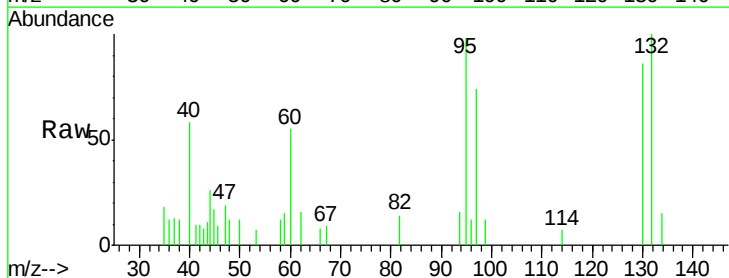
MMDadoda
 4/16/2019 10:53:28 AM

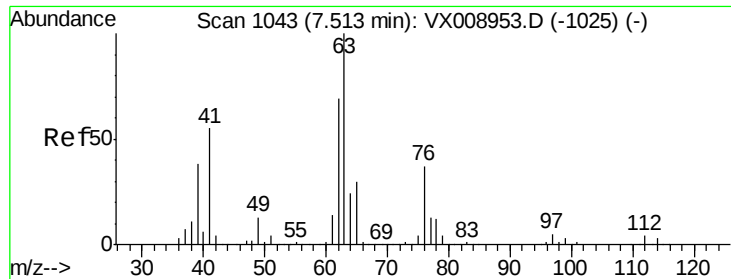


#44

Trichloroethene
 Concen: 0.516 ug/l
 RT: 7.21 min Scan# 994
 Delta R.T. 0.00 min
 Lab File: VX008964.D
 Acq: 15 Apr 2019 16:46

Tgt Ion	Ratio	Lower	Upper
130	100		
95	113.9	0.0	203.2





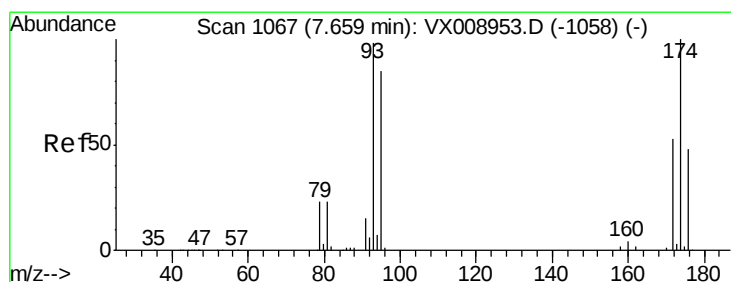
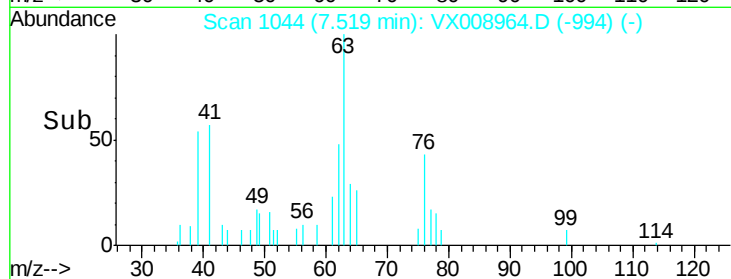
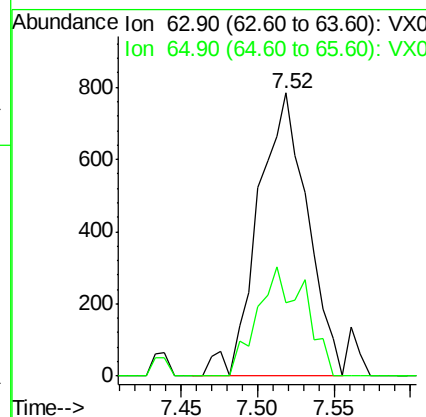
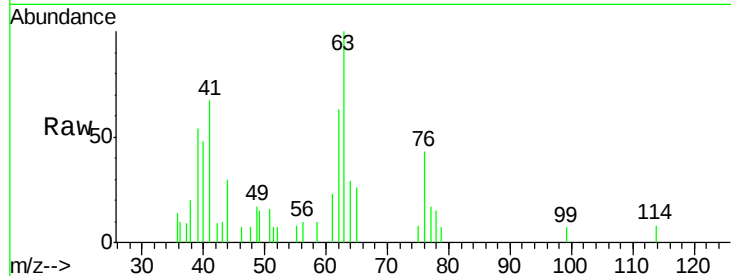
#45
 1,2-Dichloropropane
 Concen: 0.570 ug/l
 RT: 7.52 min Scan# 1044
 Delta R.T. 0.01 min
 Lab File: VX008964.D
 Acq: 15 Apr 2019 16:46

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

Tot Ion: 63 Resp: 1760
 Ion Ratio Lower Upper
 63 100
 65 26.0 24.1 36.1

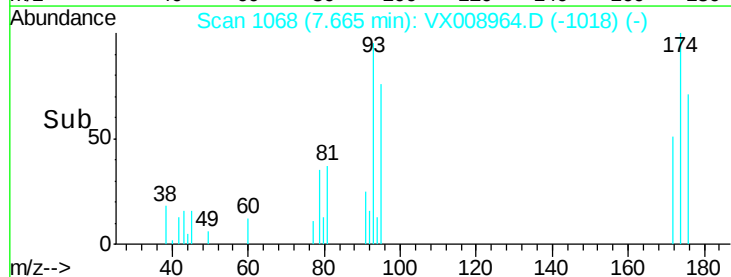
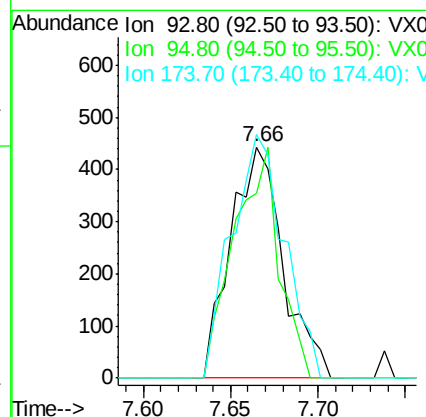
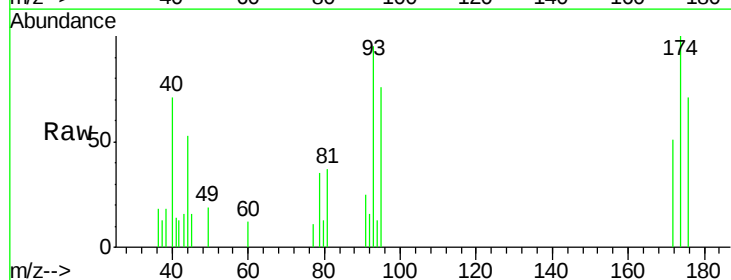
Manual Integrations
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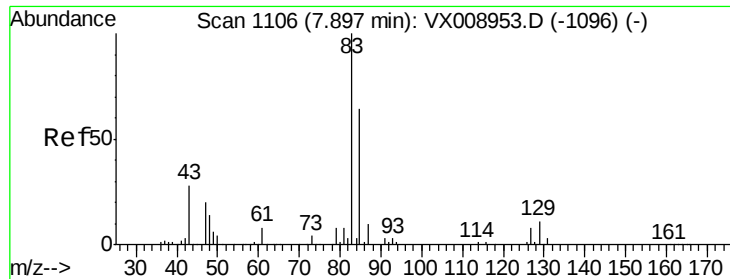
MMDadoda
 4/16/2019 10:53:28 AM



#46
 Dibromomethane
 Concen: 0.516 ug/l
 RT: 7.66 min Scan# 1068
 Delta R.T. 0.01 min
 Lab File: VX008964.D
 Acq: 15 Apr 2019 16:46

Tgt Ion: 93 Resp: 927
 Ion Ratio Lower Upper
 93 100
 95 85.3 67.0 100.4
 174 105.6 81.6 122.4





#47

Bromodichloromethane

Concen: 0.535 ug/l

RT: 7.90 min Scan# 1106

Delta R.T. 0.00 min

Lab File: VX008964.D

Acq: 15 Apr 2019 16:46

Instrument :

MSVOA_X

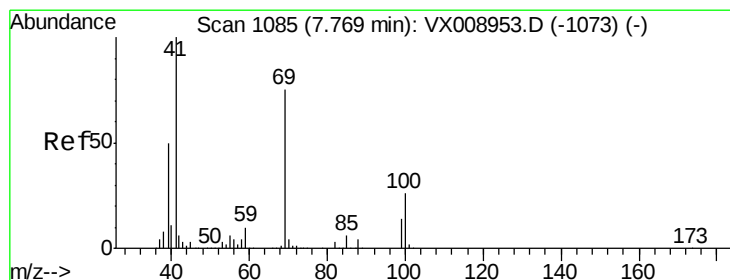
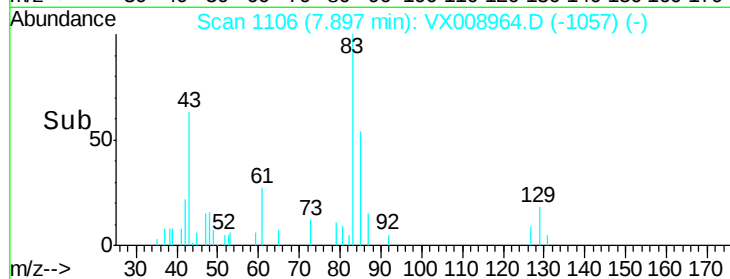
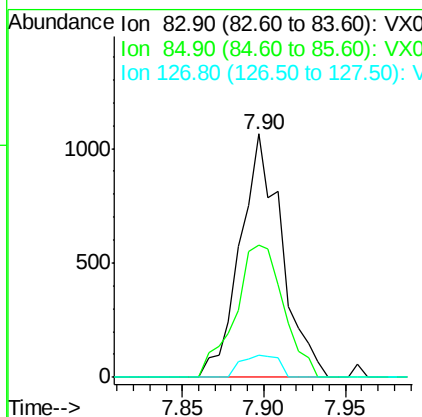
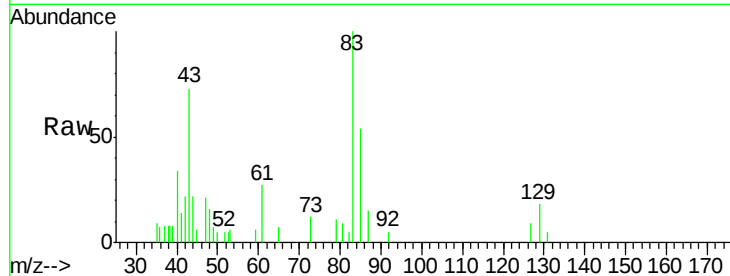
ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion:	83	Resp:	1884
Ion	Ratio	Lower	Upper
83	100		
85	54.3	50.8	76.2
127	9.0	6.4	9.6

Manual Integrations
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MMDadoda
4/16/2019 10:53:28 AM



#48

Methyl methacrylate

Concen: 0.607 ug/l

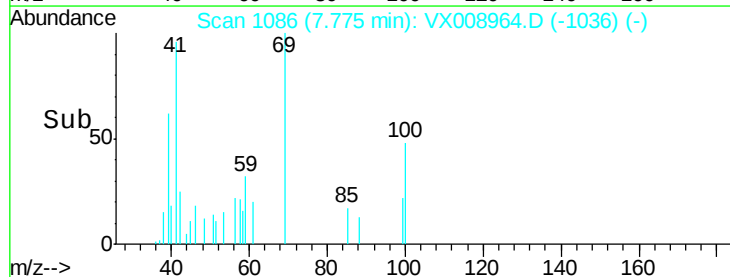
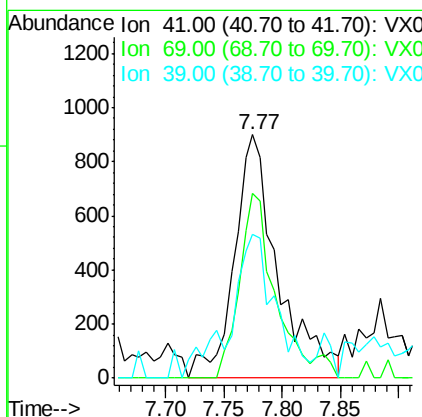
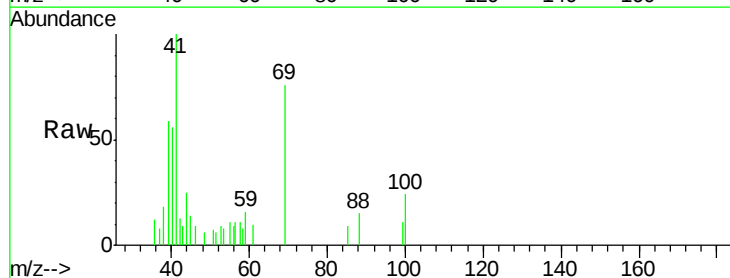
RT: 7.77 min Scan# 1086

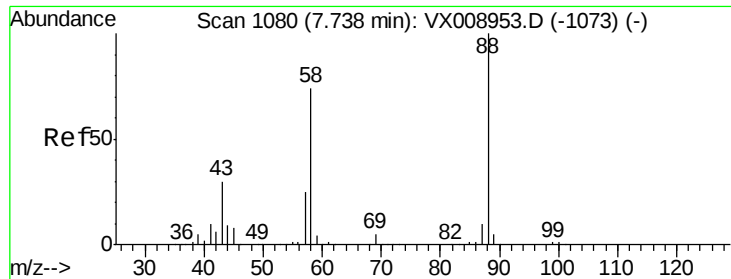
Delta R.T. 0.01 min

Lab File: VX008964.D

Acq: 15 Apr 2019 16:46

Tgt Ion:	41	Resp:	2348
Ion	Ratio	Lower	Upper
41	100		
69	60.3	59.4	89.2
39	60.9	39.8	59.6#





#49

1,4-Dioxane

Concen: 11.153 ug/l

RT: 7.75 min Scan# 1082

Delta R.T. 0.01 min

Lab File: VX008964.D

Acq: 15 Apr 2019 16:46

Instrument :

MSVOA_X

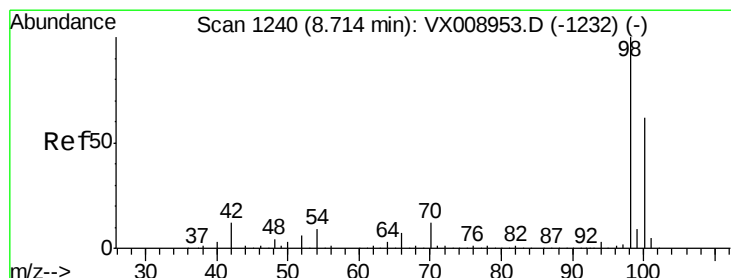
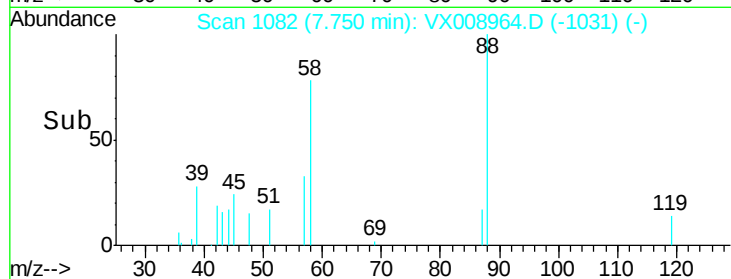
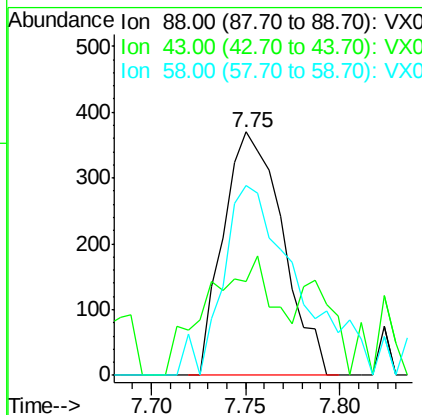
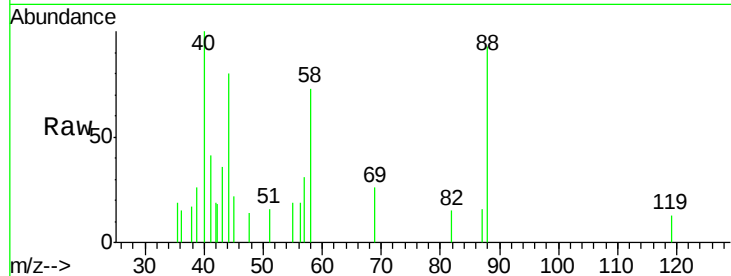
ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion:	88	Resp:	807
Ion	Ratio	Lower	Upper
88	100		
43	57.0	29.3	43.9#
58	98.9	62.6	93.8#

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4/16/2019 10:53:28 AM



#50

Toluene-d8

Concen: 48.470 ug/l

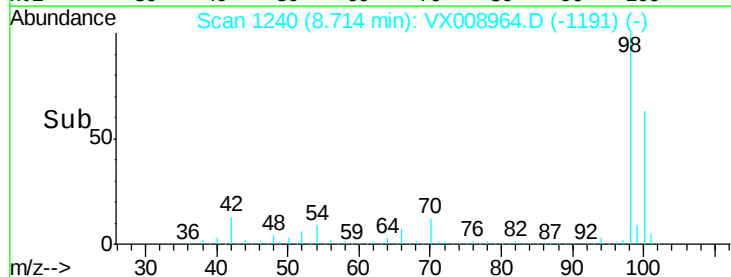
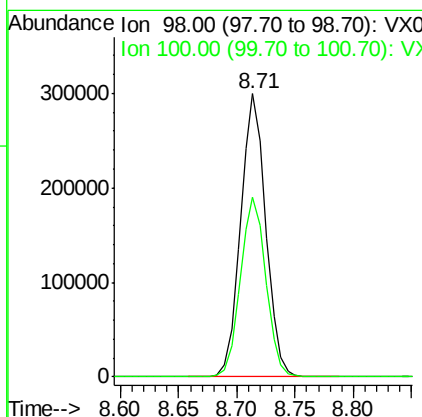
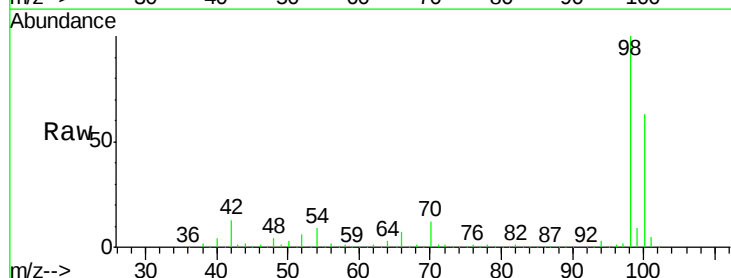
RT: 8.71 min Scan# 1240

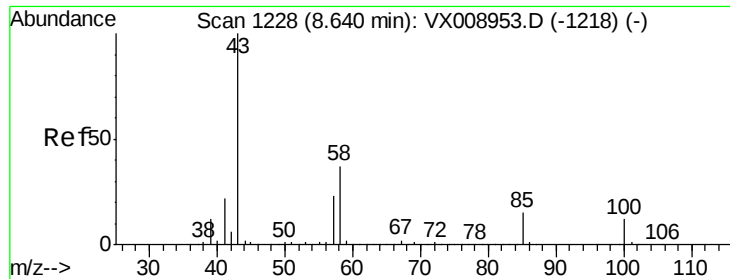
Delta R.T. 0.00 min

Lab File: VX008964.D

Acq: 15 Apr 2019 16:46

Tgt Ion:	98	Resp:	452573
Ion	Ratio	Lower	Upper
98	100		
100	64.2	51.4	77.2





#51

4-Methyl-2-Pentanone

Concen: 2.453 ug/l

RT: 8.64 min Scan# 1228

Delta R.T. -0.00 min

Lab File: VX008964.D

Acq: 15 Apr 2019 16:46

Instrument :

MSVOA_X

ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion: 43 Resp: 12225

Ion Ratio Lower Upper

43 100

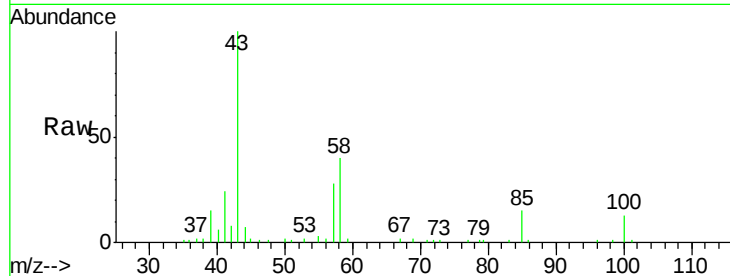
58 36.9 29.8 44.6

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

8000

6000

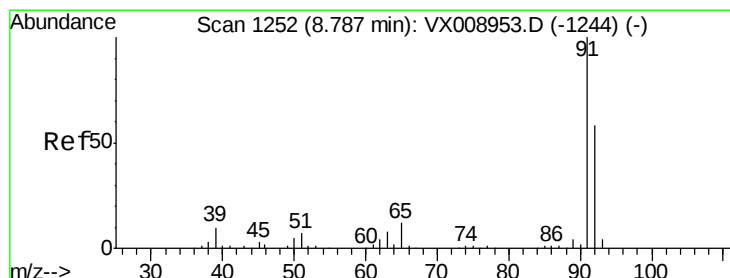
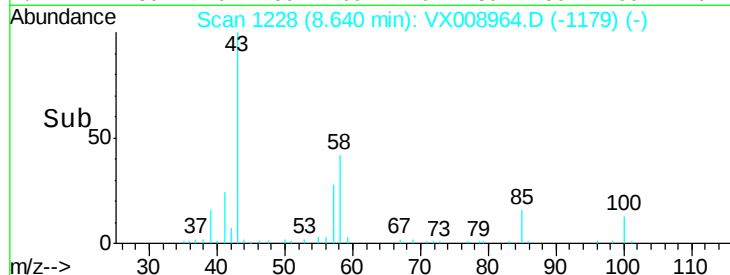
4000

2000

0

8.60 8.65 8.70

Time-->



#52

Toluene

Concen: 0.507 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. 0.00 min

Lab File: VX008964.D

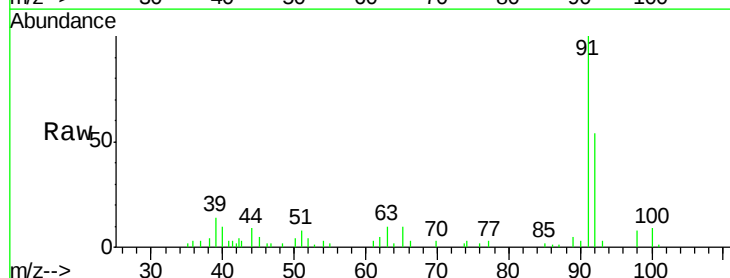
Acq: 15 Apr 2019 16:46

Tgt Ion: 92 Resp: 3381

Ion Ratio Lower Upper

92 100

91 187.0 138.5 207.7



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0

4000

3000

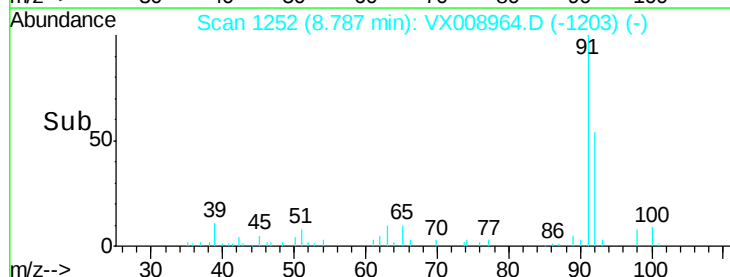
2000

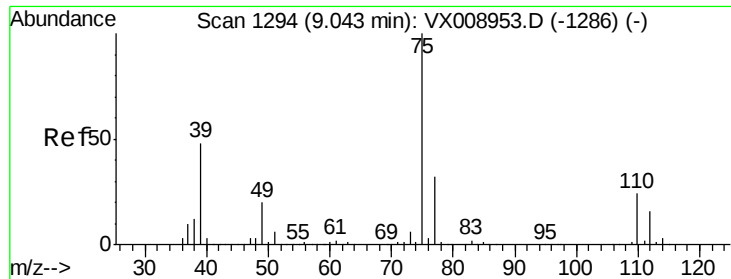
1000

0

8.75 8.80 8.85

Time-->





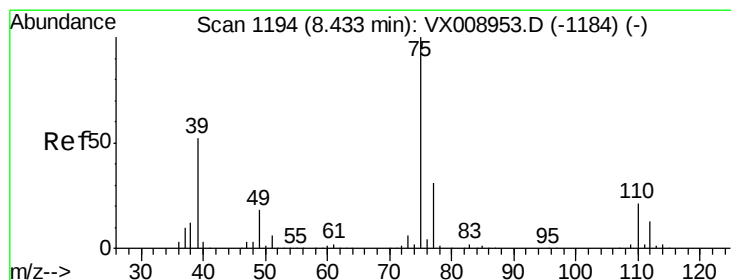
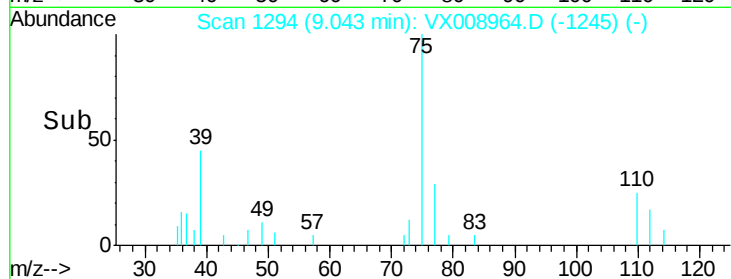
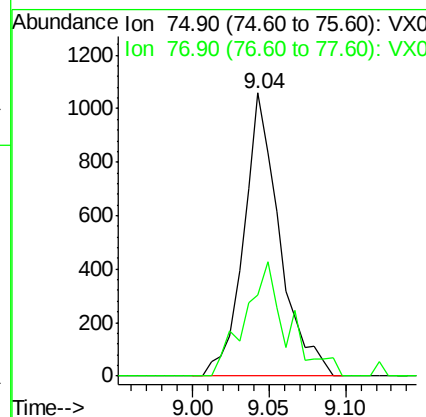
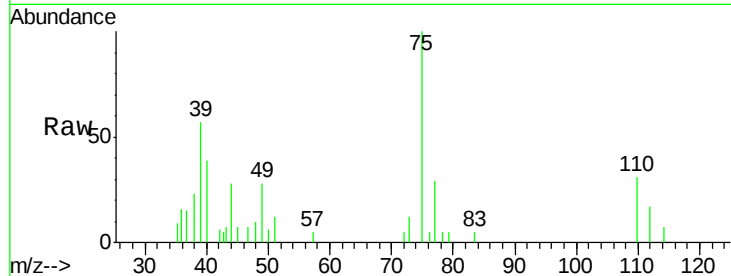
#53
t-1,3-Dichloropropene
Concen: 0.424 ug/l
RT: 9.04 min Scan# 1294
Delta R.T. -0.00 min
Lab File: VX008964.D
Acq: 15 Apr 2019 16:46

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

Tot Ion: 75 Resp: 1720
Ion Ratio Lower Upper
75 100
77 28.7 25.4 38.2

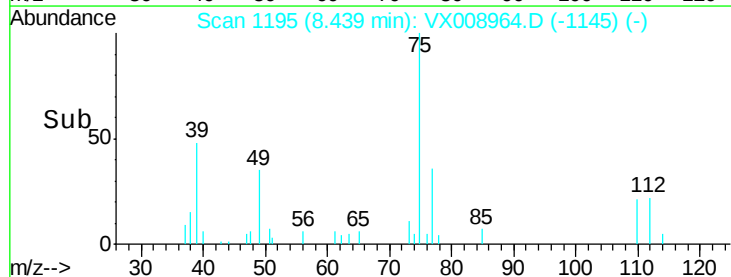
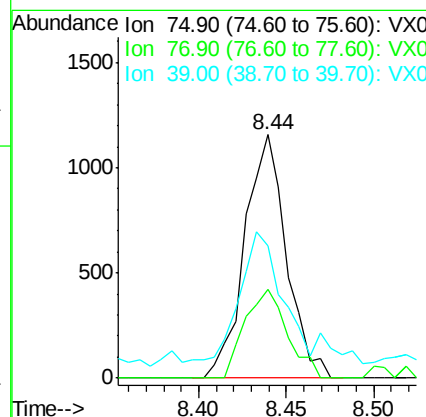
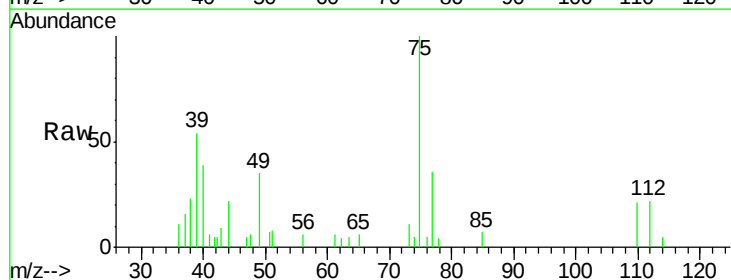
Manual Integrations
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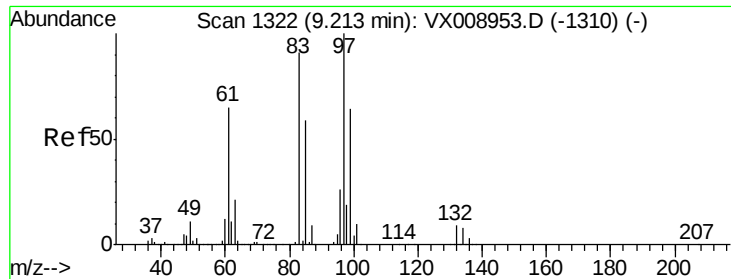
MMDadoda
4/16/2019 10:53:28 AM



#54
cis-1,3-Dichloropropene
Concen: 0.423 ug/l
RT: 8.44 min Scan# 1195
Delta R.T. 0.01 min
Lab File: VX008964.D
Acq: 15 Apr 2019 16:46

Tgt Ion: 75 Resp: 1923
Ion Ratio Lower Upper
75 100
77 36.3 24.8 37.2
39 46.9 41.8 62.6





#55

1,1,2-Trichloroethane

Concen: 0.497 ug/l

RT: 9.22 min Scan# 1323

Delta R.T. 0.01 min

Lab File: VX008964.D

Acq: 15 Apr 2019 16:46

Instrument :

MSVOA_X

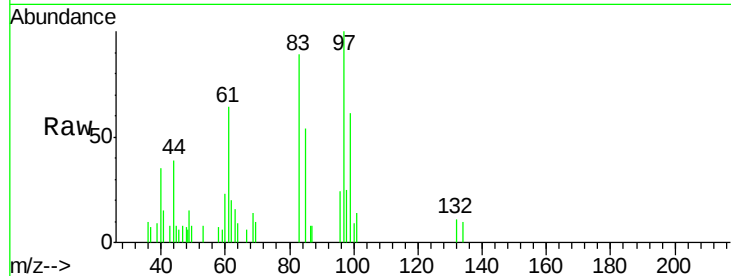
ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion:	97	Resp:	1315
Ion	Ratio	Lower	Upper
97	100		
83	88.9	72.6	108.8
85	54.4	46.9	70.3
99	61.1	51.0	76.6

Manual Integrations
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MMDadoda
4/16/2019 10:53:28 AM

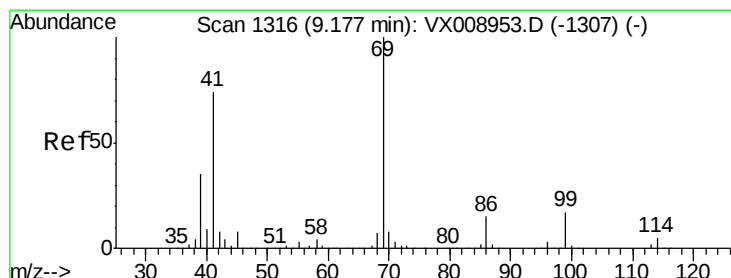
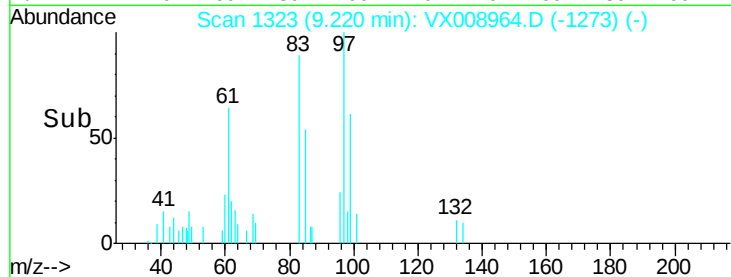
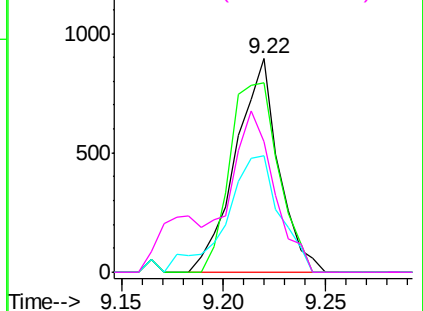


Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 98.90 (98.60 to 99.60): VX0



#56

Ethyl methacrylate

Concen: 0.471 ug/l

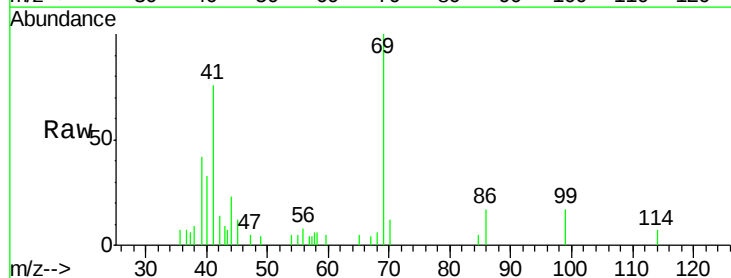
RT: 9.18 min Scan# 1316

Delta R.T. -0.00 min

Lab File: VX008964.D

Acq: 15 Apr 2019 16:46

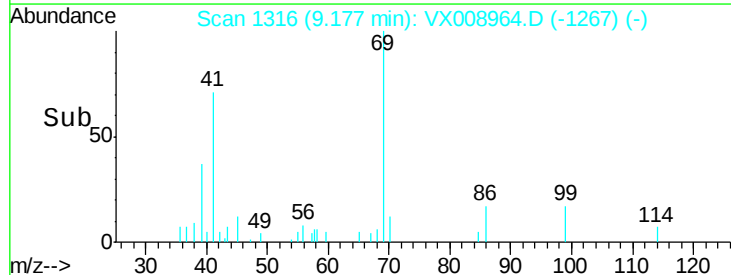
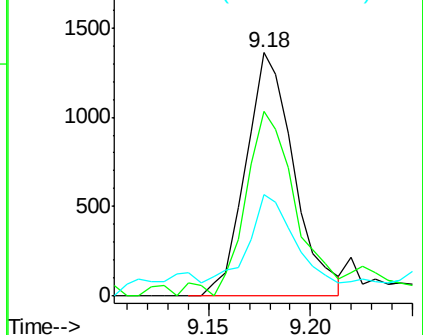
Tgt Ion:	69	Resp:	2235
Ion	Ratio	Lower	Upper
69	100		
41	79.5	60.2	90.2
39	38.6	27.9	41.9

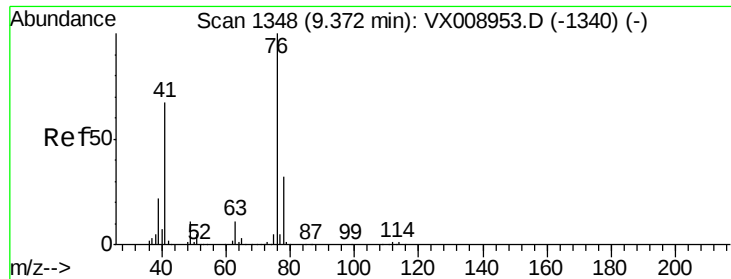


Abundance Ion 69.00 (68.70 to 69.70): VX0

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#57

1,3-Dichloropropane

Concen: 0.534 ug/l

RT: 9.37 min Scan# 1348

Delta R.T. 0.00 min

Lab File: VX008964.D

Acq: 15 Apr 2019 16:46

Instrument :

MSVOA_X

ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion: 76 Resp: 2514

Ion Ratio Lower Upper

76 100

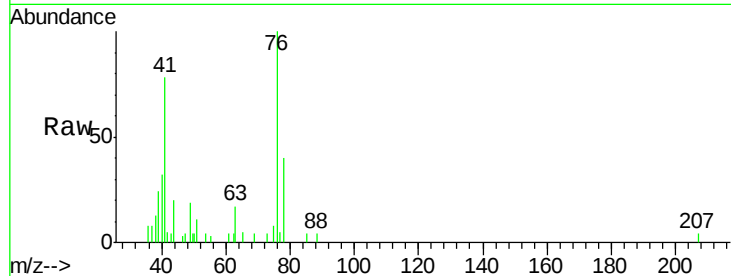
78 35.3 25.7 38.5

Manual Integrations

APPROVED

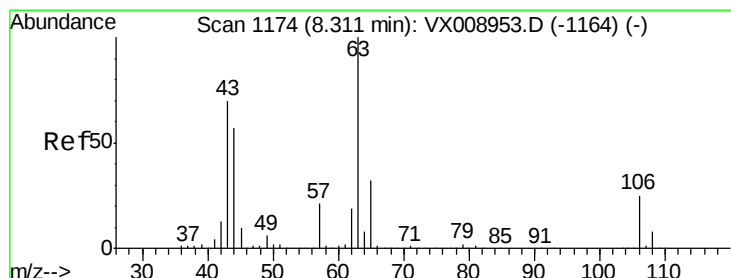
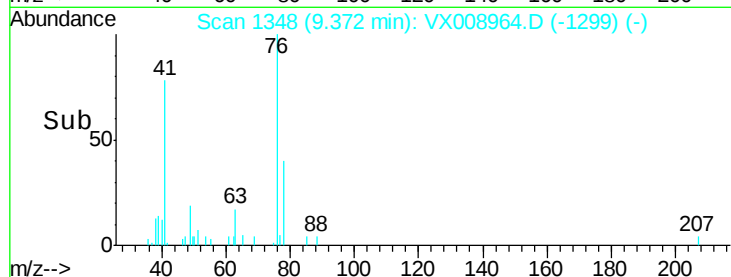
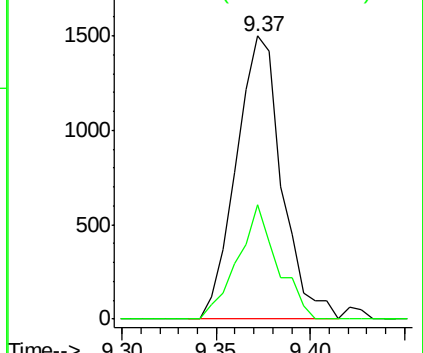
MMDadoda

4/16/2019 10:53:28 AM



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#58

2-Chloroethyl Vinyl ether

Concen: 2.272 ug/l

RT: 8.31 min Scan# 1174

Delta R.T. 0.00 min

Lab File: VX008964.D

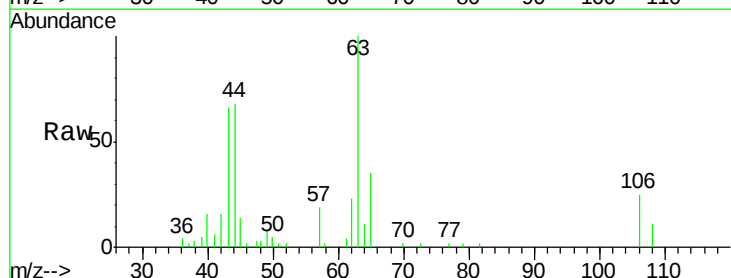
Acq: 15 Apr 2019 16:46

Tgt Ion: 63 Resp: 5799

Ion Ratio Lower Upper

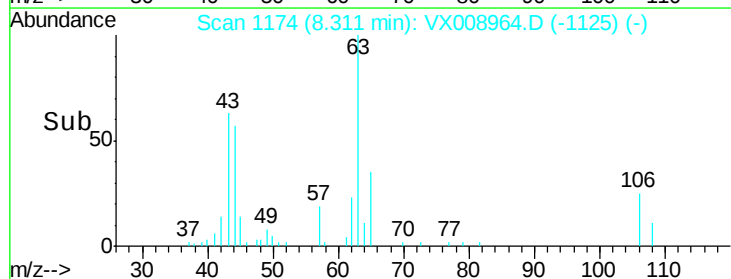
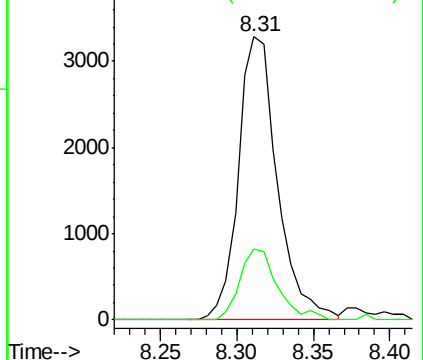
63 100

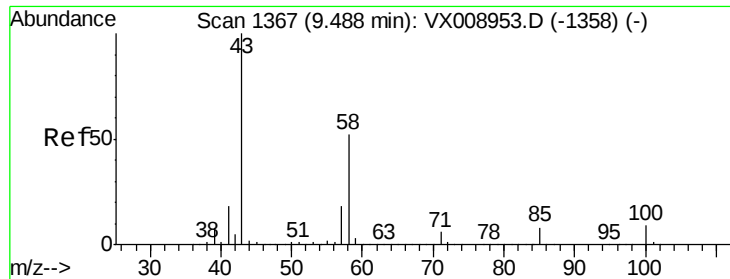
106 24.4 19.8 29.6



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 105.90 (105.60 to 106.60): V





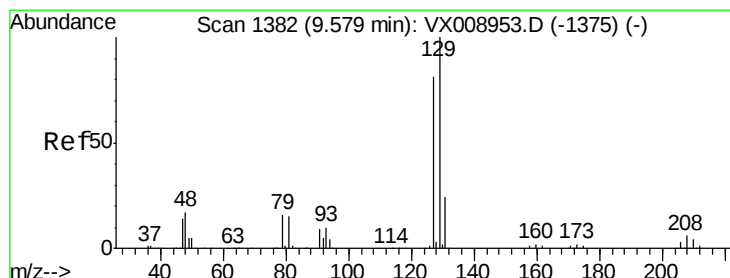
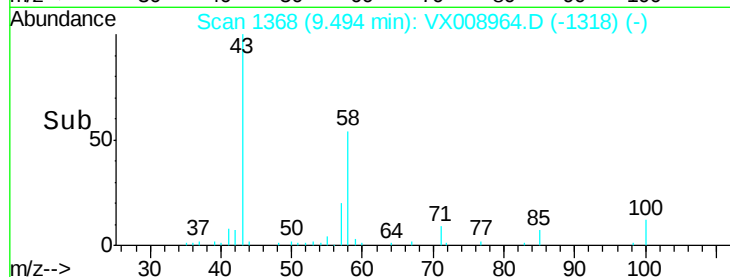
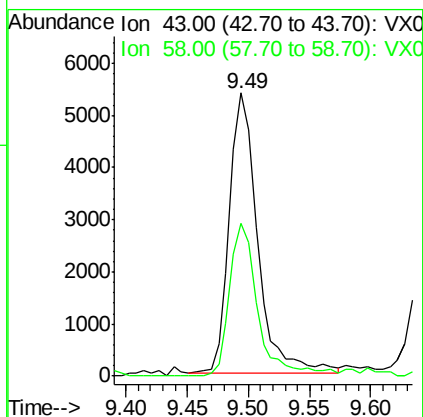
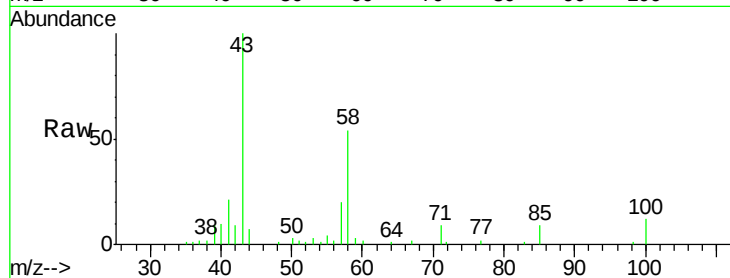
#59
2-Hexanone
Concen: 2.235 ug/l
RT: 9.49 min Scan# 1368
Delta R.T. 0.01 min
Lab File: VX008964.D
Acq: 15 Apr 2019 16:46

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

Tot Ion: 43 Resp: 8588
Ion Ratio Lower Upper
43 100
58 54.0 25.9 77.8

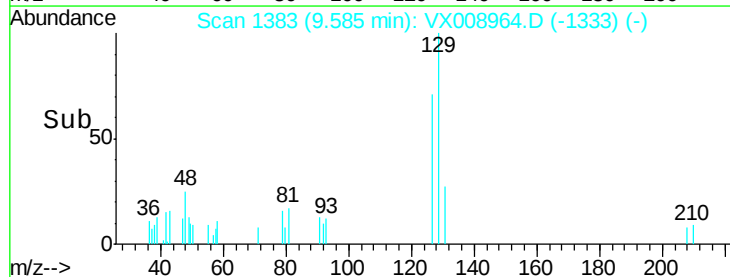
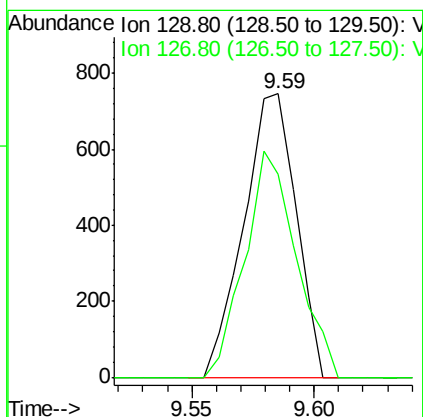
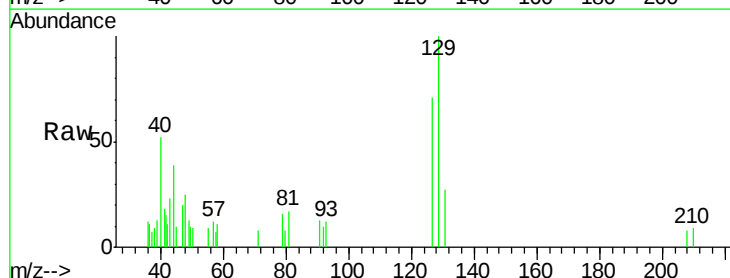
Manual Integrations
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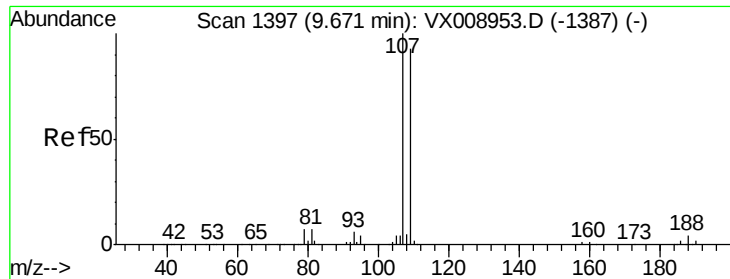
MMDadoda
4/16/2019 10:53:28 AM



#60
Dibromochloromethane
Concen: 0.438 ug/l
RT: 9.59 min Scan# 1383
Delta R.T. 0.01 min
Lab File: VX008964.D
Acq: 15 Apr 2019 16:46

Tgt Ion: 129 Resp: 1109
Ion Ratio Lower Upper
129 100
127 78.6 39.1 117.2





#61

1,2-Dibromoethane

Concen: 0.511 ug/l

RT: 9.67 min Scan# 1397

Delta R.T. -0.00 min

Lab File: VX008964.D

Acq: 15 Apr 2019 16:46

Instrument :

MSVOA_X

ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion: 107 Resp: 1394

Ion Ratio Lower Upper

107 100

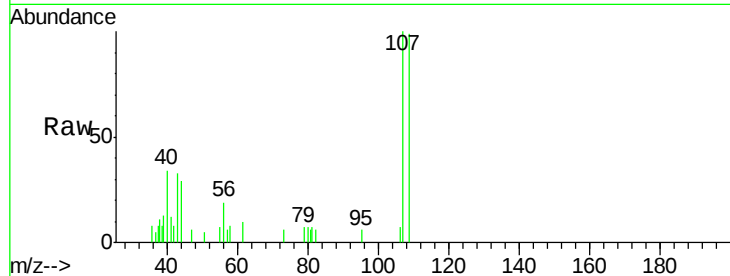
109 100.0 74.4 111.6

Manual Integrations

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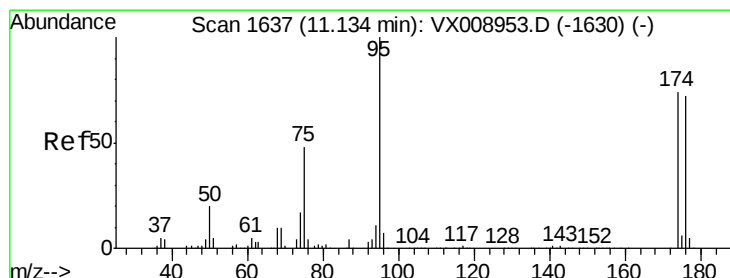
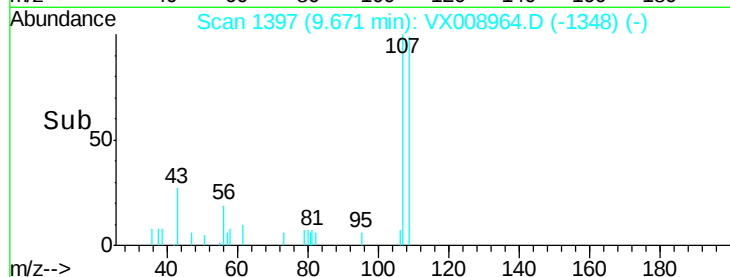
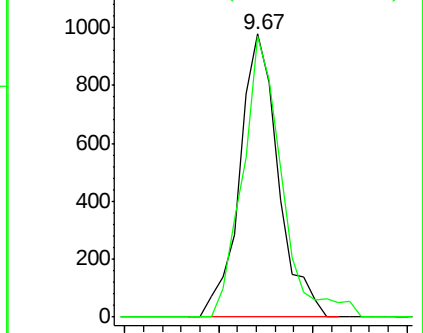
MMDadoda

4/16/2019 10:53:28 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 47.440 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008964.D

Acq: 15 Apr 2019 16:46

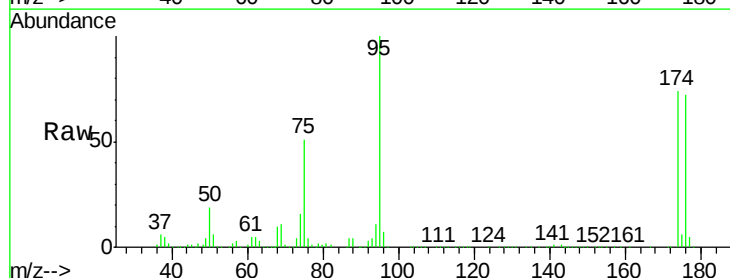
Tgt Ion: 95 Resp: 156365

Ion Ratio Lower Upper

95 100

174 78.9 0.0 159.6

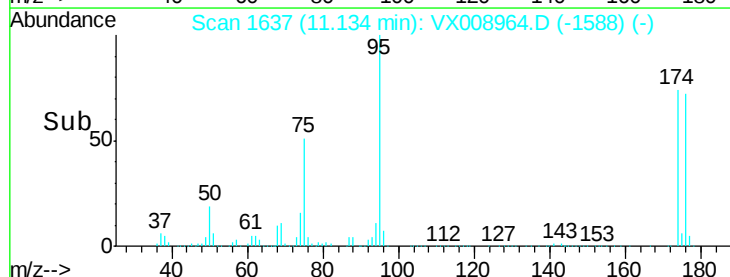
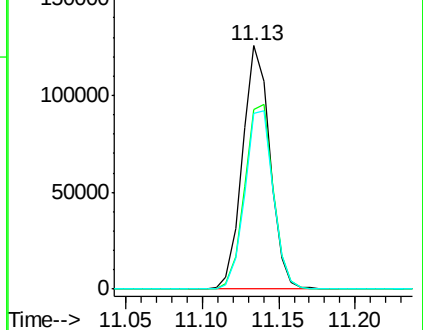
176 76.3 0.0 154.8

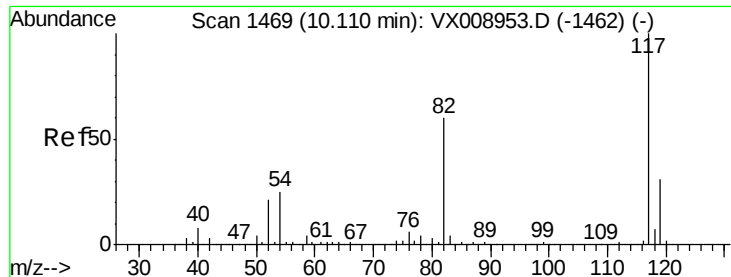


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





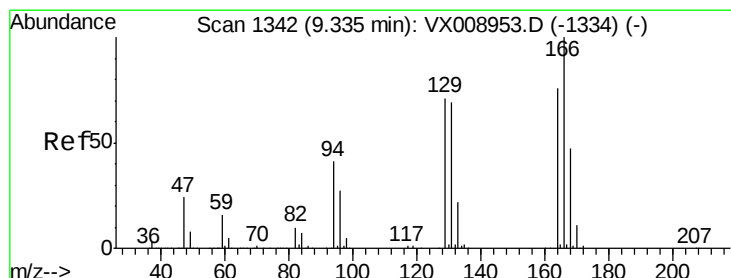
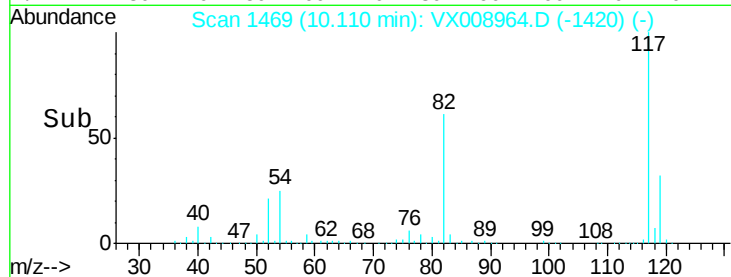
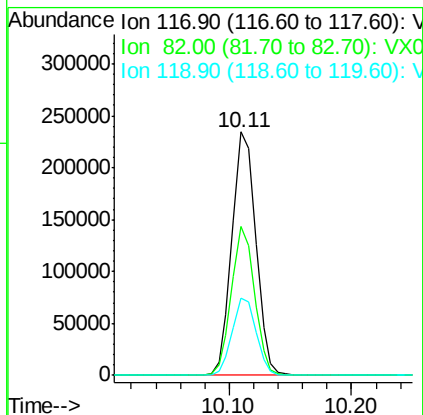
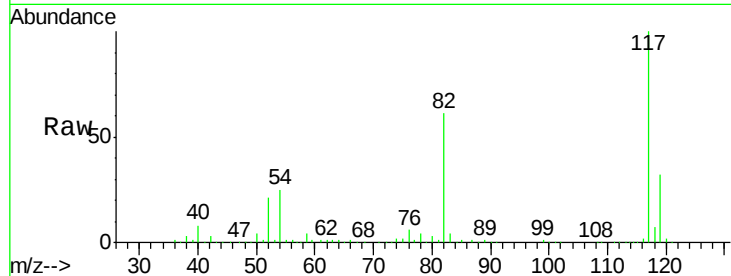
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX008964.D
Acq: 15 Apr 2019 16:46

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

Tot Ion	Ratio	Lower	Upper
117	100		
82	61.0	48.2	72.4
119	31.6	25.0	37.6

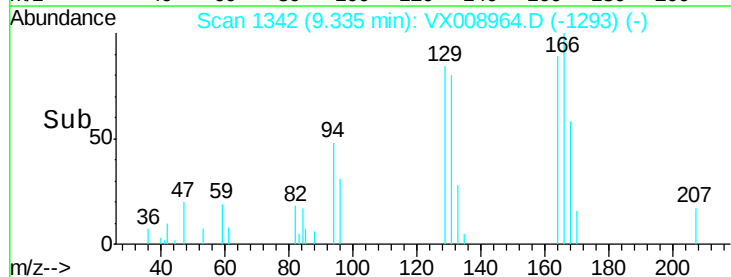
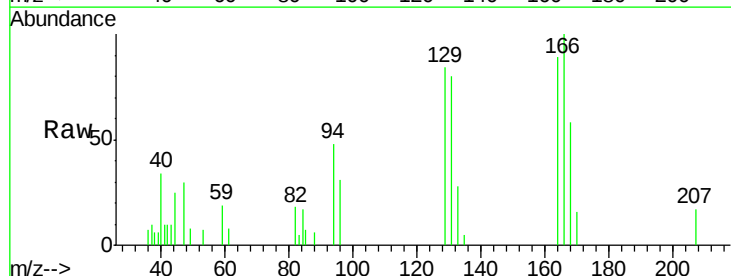
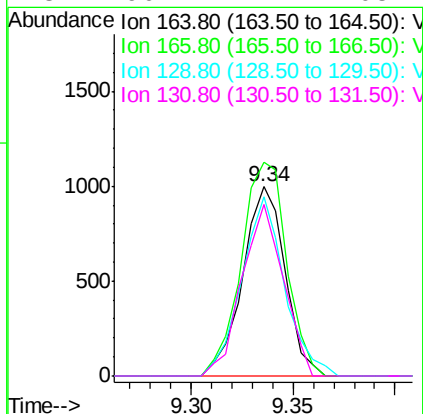
Manual Integrations
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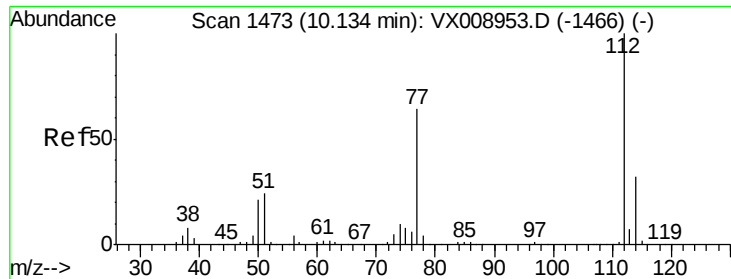
MMDadoda
4/16/2019 10:53:28 AM



#64
Tetrachloroethene
Concen: 0.596 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX008964.D
Acq: 15 Apr 2019 16:46

Tgt Ion	Ratio	Lower	Upper
164	100		
166	112.8	105.0	157.4
129	94.4	74.2	111.4
131	90.4	72.2	108.2





#65

Chlorobenzene

Concen: 0.517 ug/l

RT: 10.13 min Scan# 1473

Delta R.T. -0.00 min

Lab File: VX008964.D

Acq: 15 Apr 2019 16:46

Instrument :

MSVOA_X

ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion:112 Resp: 3459

Ion Ratio Lower Upper

112 100

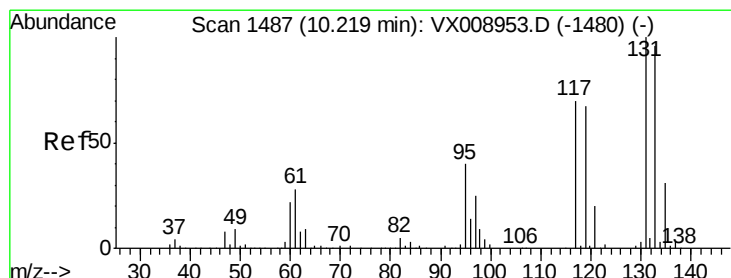
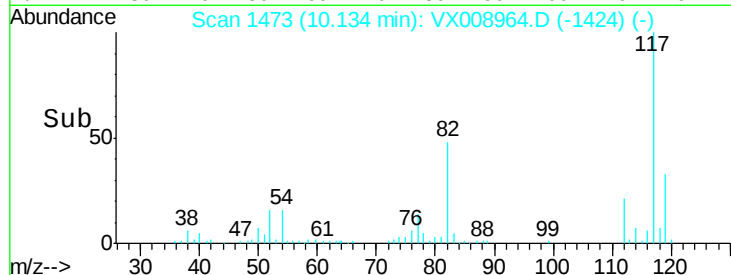
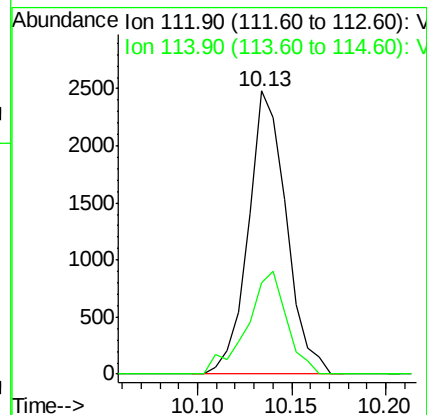
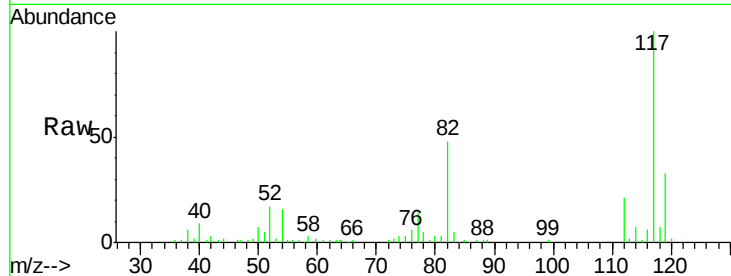
114 32.3 25.4 38.0

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#66

1,1,1,2-Tetrachloroethane

Concen: 0.505 ug/l

RT: 10.22 min Scan# 1487

Delta R.T. -0.00 min

Lab File: VX008964.D

Acq: 15 Apr 2019 16:46

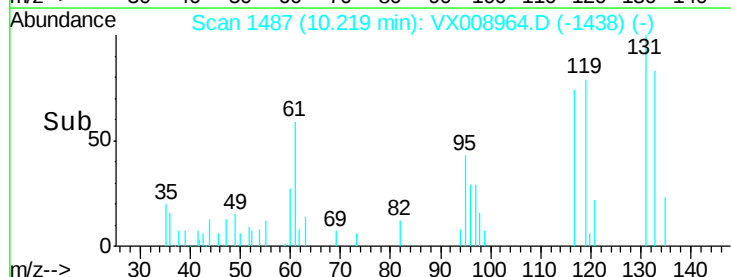
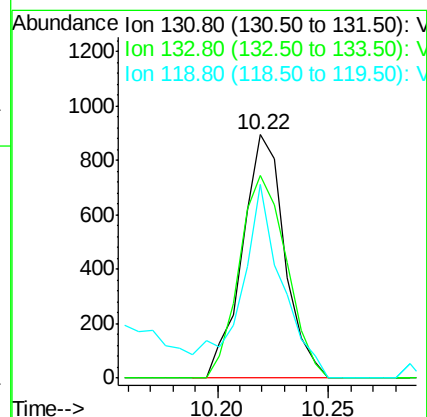
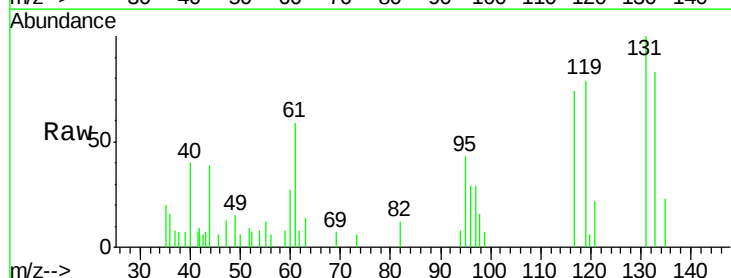
Tgt Ion:131 Resp: 1191

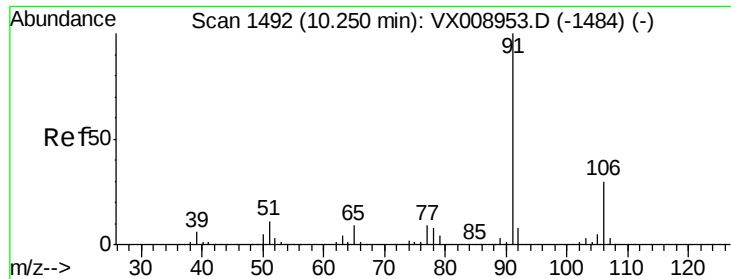
Ion Ratio Lower Upper

131 100

133 92.7 48.0 144.2

119 0.0 33.7 101.1#





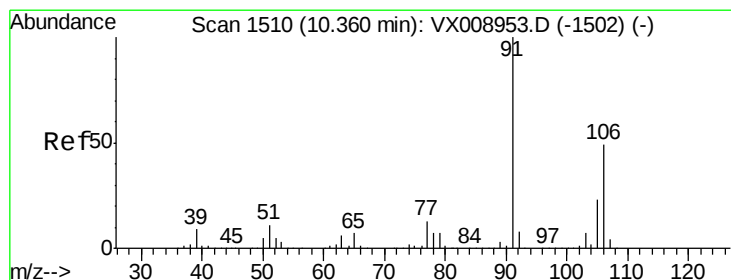
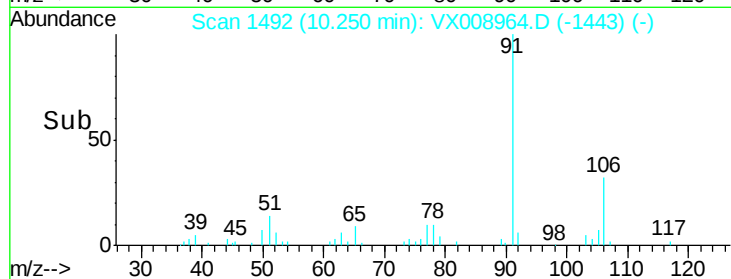
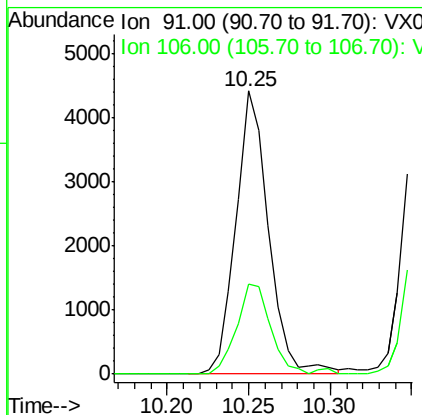
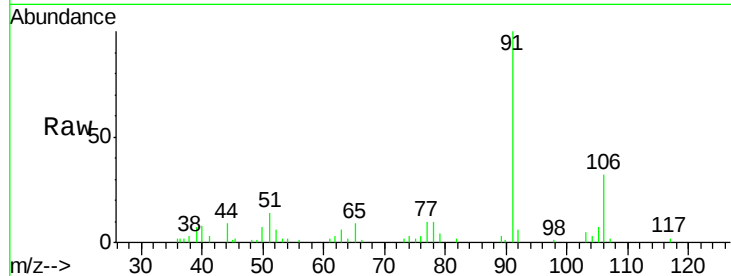
#67
Ethyl Benzene
Concen: 0.504 ug/l
RT: 10.25 min Scan# 1492
Delta R.T. -0.00 min
Lab File: VX008964.D
Acq: 15 Apr 2019 16:46

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

Tot Ion: 91 Resp: 6167
Ion Ratio Lower Upper
91 100
106 32.0 24.3 36.5

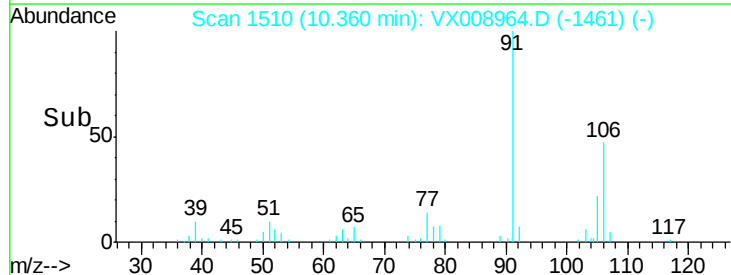
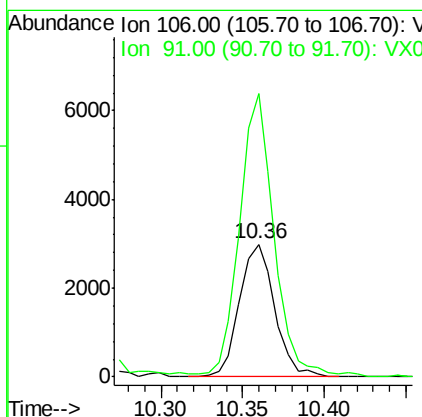
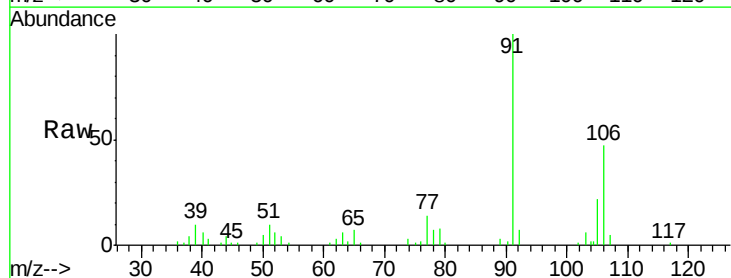
Manual Integrations
APPROVED

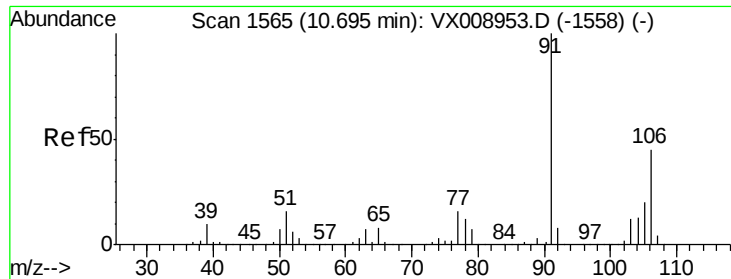
MMDadoda
4/16/2019 10:53:28 AM



#68
m/p-Xylenes
Concen: 1.012 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. -0.00 min
Lab File: VX008964.D
Acq: 15 Apr 2019 16:46

Tgt Ion: 106 Resp: 4496
Ion Ratio Lower Upper
106 100
91 210.9 165.4 248.2





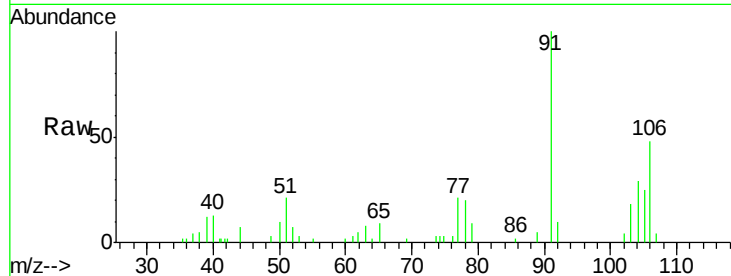
#69
o-Xylene
Concen: 0.507 ug/l
RT: 10.70 min Scan# 1566
Delta R.T. 0.01 min
Lab File: VX008964.D
Acq: 15 Apr 2019 16:46

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

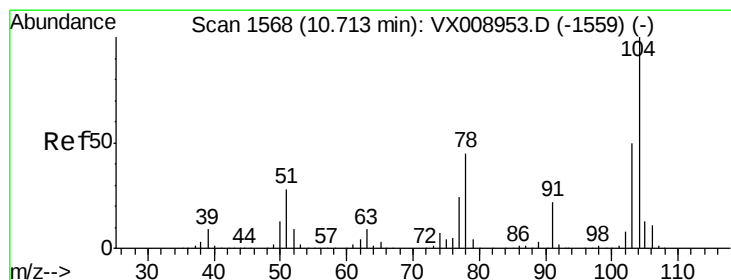
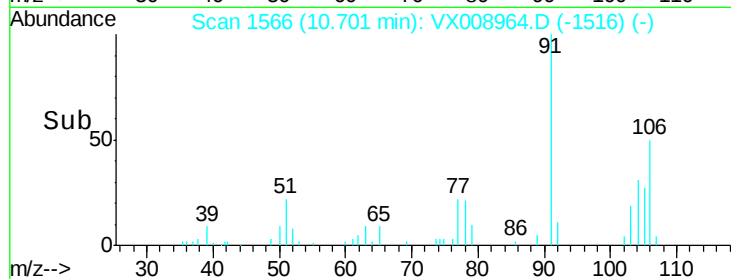
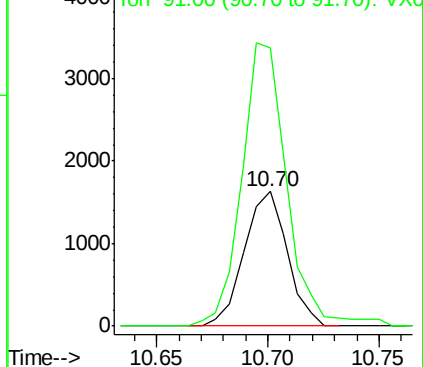
Tot Ion:106 Resp: 2194
Ion Ratio Lower Upper
106 100
91 221.3 108.9 326.7

Manual Integrations
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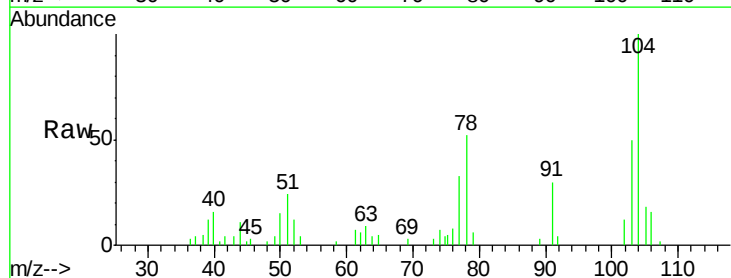


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

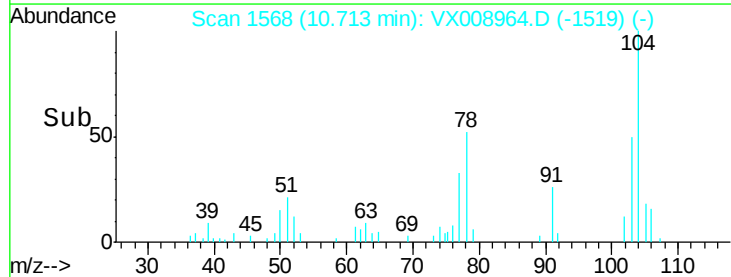
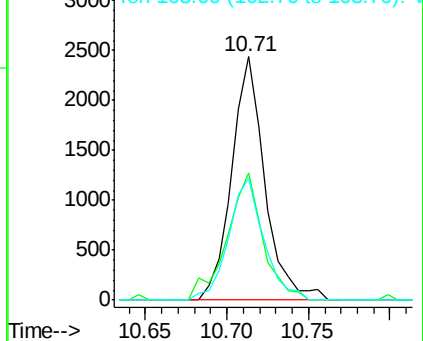


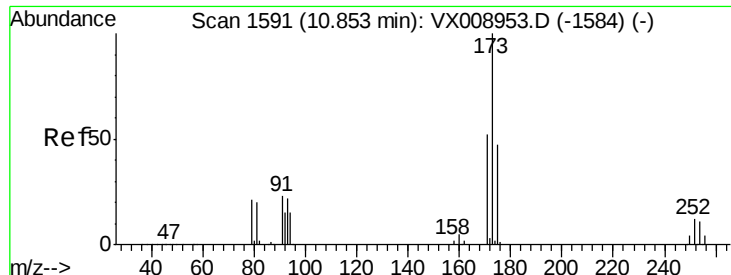
#70
Styrene
Concen: 0.461 ug/l
RT: 10.71 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VX008964.D
Acq: 15 Apr 2019 16:46

Tgt Ion:104 Resp: 3452
Ion Ratio Lower Upper
104 100
78 56.3 41.2 61.8
103 53.2 43.9 65.9



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VX0
Ion 103.00 (102.70 to 103.70): V





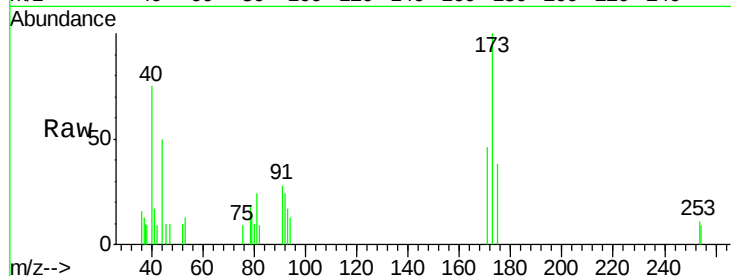
#71
Bromoform
Concen: 0.442 ug/l
RT: 10.86 min Scan# 1592
Delta R.T. 0.01 min
Lab File: VX008964.D
Acq: 15 Apr 2019 16:46

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

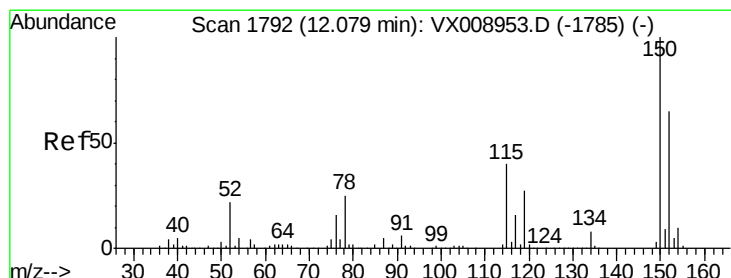
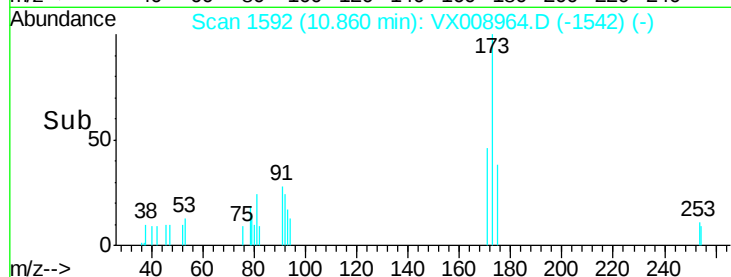
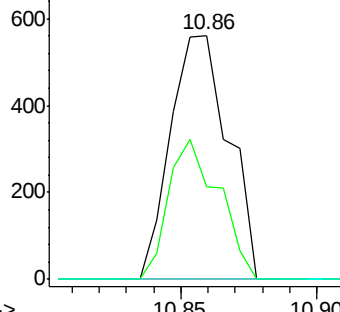
Tot Ion	Ratio	Lower	Upper
173	100		
175	49.6	23.9	71.8
254	0.0	0.2	0.4

Manual Integrations
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4/16/2019 10:53:28 AM

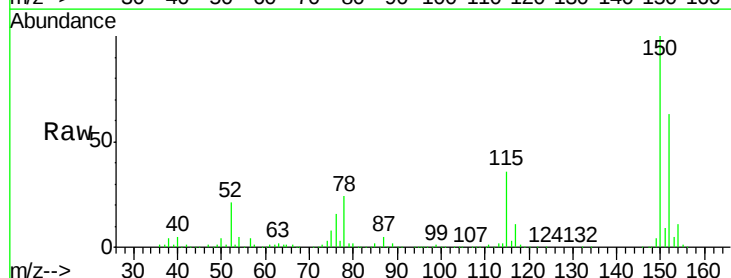


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

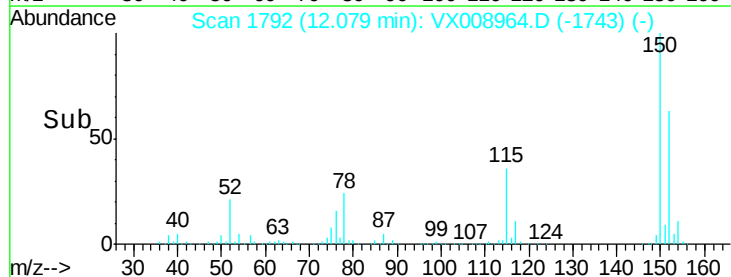
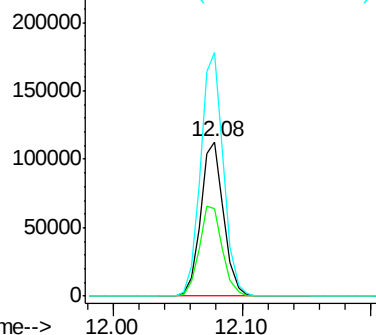


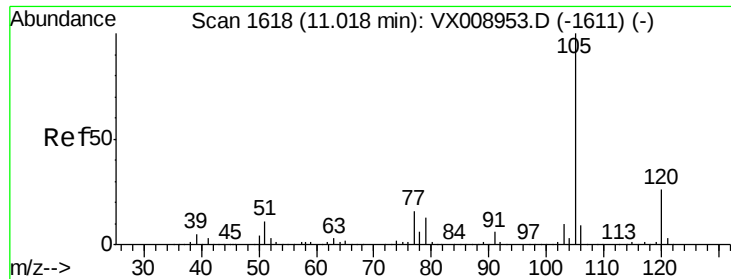
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX008964.D
Acq: 15 Apr 2019 16:46

Tgt Ion	Ratio	Lower	Upper
152	100		
115	59.8	41.4	124.2
150	158.6	0.0	349.8



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 0.523 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. -0.00 min

Lab File: VX008964.D

Acq: 15 Apr 2019 16:46

Instrument :

MSVOA_X

ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion: 105 Resp: 5516

Ion Ratio Lower Upper

105 100

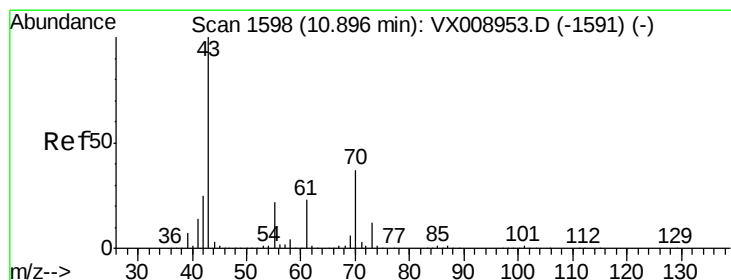
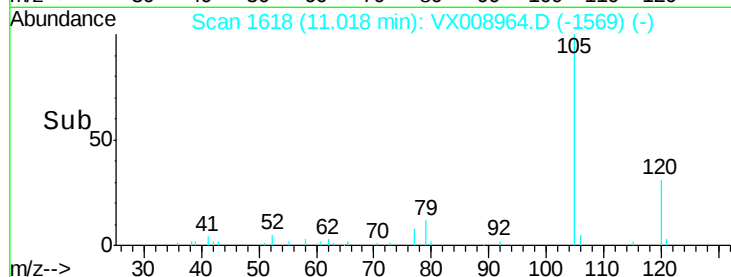
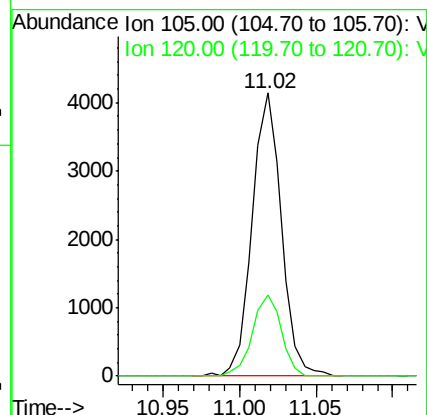
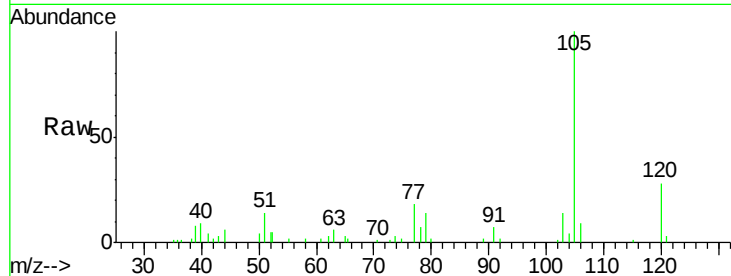
120 28.2 12.9 38.7

Manual Integrations

APPROVED

MMDadoda

4/16/2019 10:53:28 AM



#74

N-ethyl acetate

Concen: 0.511 ug/l

RT: 10.90 min Scan# 1598

Delta R.T. 0.00 min

Lab File: VX008964.D

Acq: 15 Apr 2019 16:46

Tgt Ion: 43 Resp: 3096

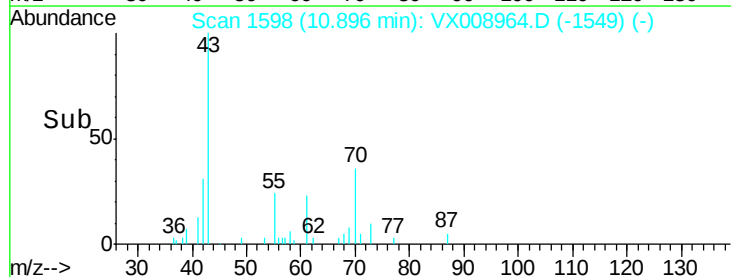
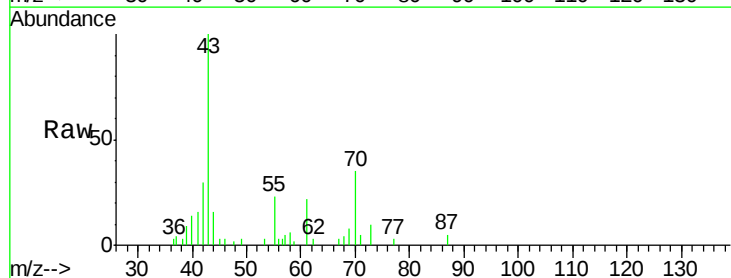
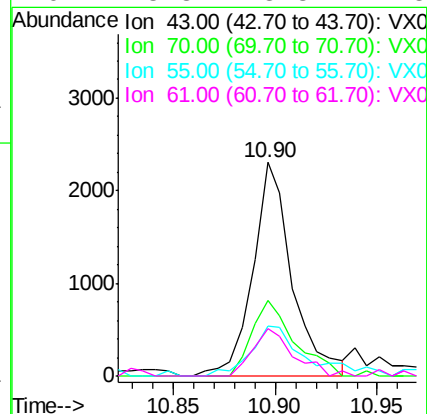
Ion Ratio Lower Upper

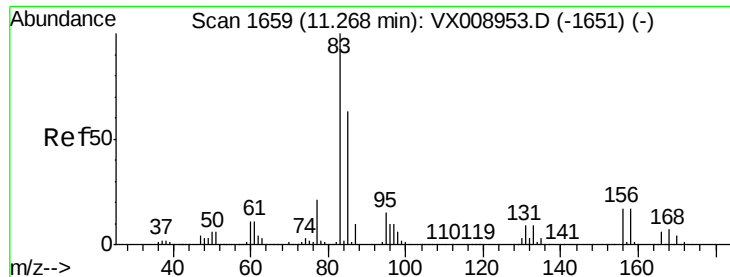
43 100

70 37.9 29.9 44.9

55 32.5 17.8 26.8#

61 23.3 18.3 27.5





#75

1,1,2,2-Tetrachloroethane

Concen: 0.562 ug/l

RT: 11.27 min Scan# 1659

Delta R.T. 0.00 min

Lab File: VX008964.D

Acq: 15 Apr 2019 16:46

Instrument :

MSVOA_X

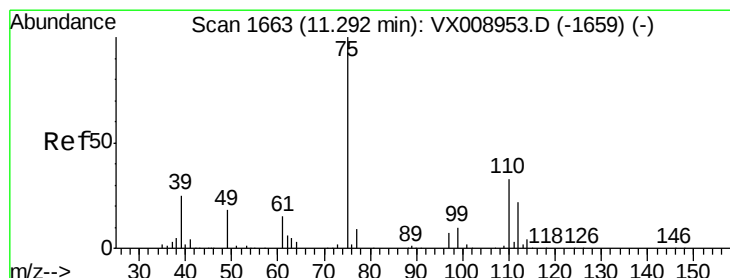
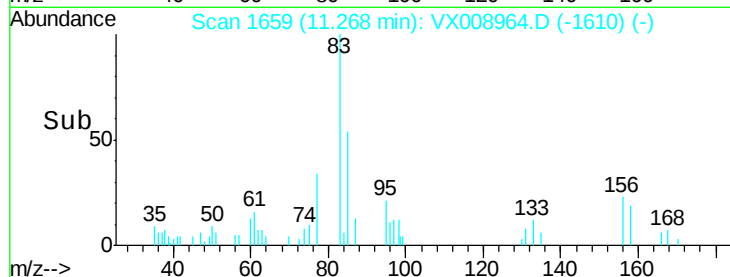
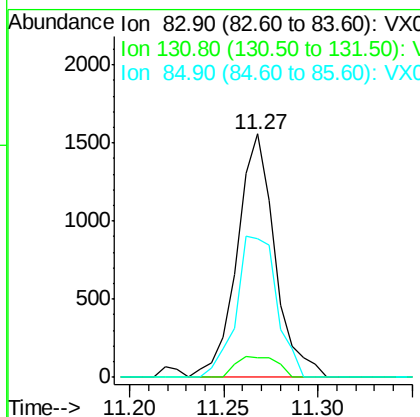
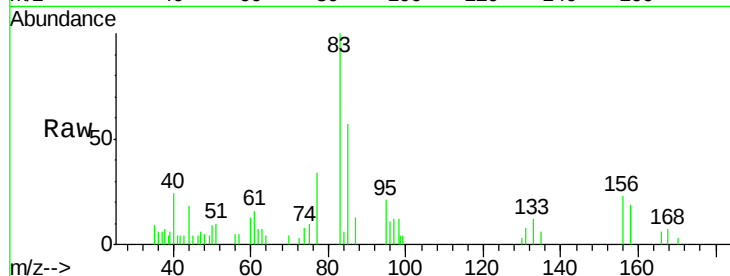
ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion:	83	Resp:	2169
Ion	Ratio	Lower	Upper
83	100		
131	9.4	4.7	14.0
85	62.1	31.9	95.9

Manual Integrations
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4/16/2019 10:53:28 AM



#76

1,2,3-Trichloropropane

Concen: 0.627 ug/l m

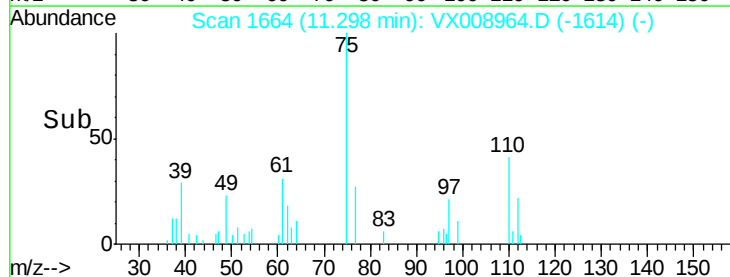
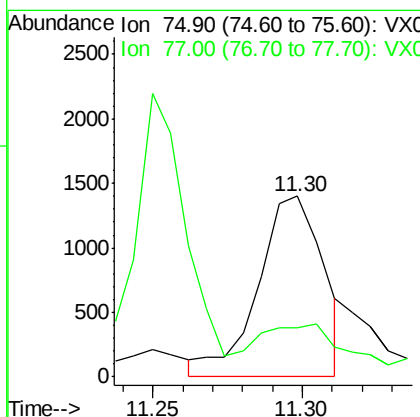
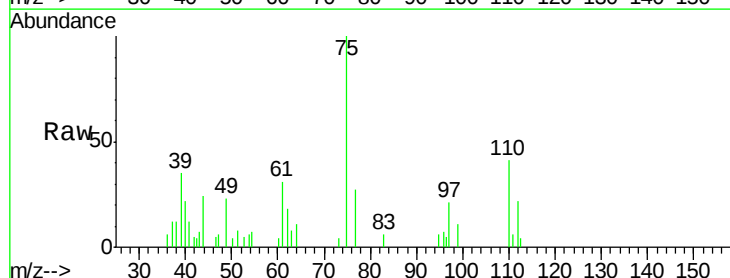
RT: 11.30 min Scan# 1664

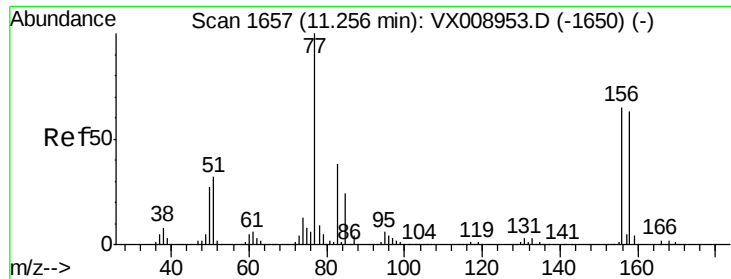
Delta R.T. 0.01 min

Lab File: VX008964.D

Acq: 15 Apr 2019 16:46

Tgt Ion:	75	Resp:	2132
Ion	Ratio	Lower	Upper
75	100		
77	41.4	22.7	68.0





#77

Bromobenzene

Concen: 0.569 ug/l

RT: 11.26 min Scan# 1657

Delta R.T. -0.00 min

Lab File: VX008964.D

Acq: 15 Apr 2019 16:46

Instrument :

MSVOA_X

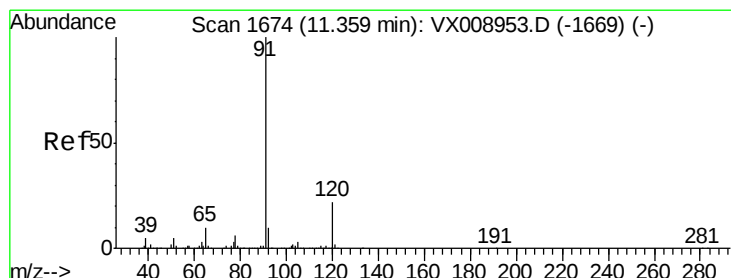
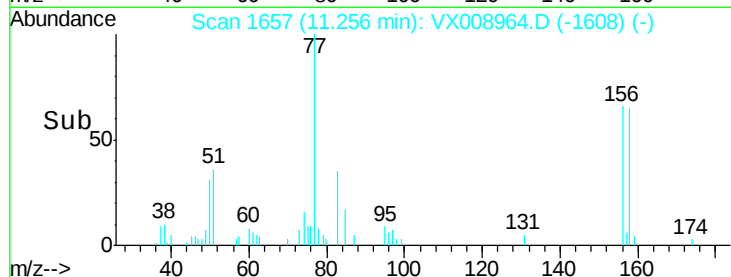
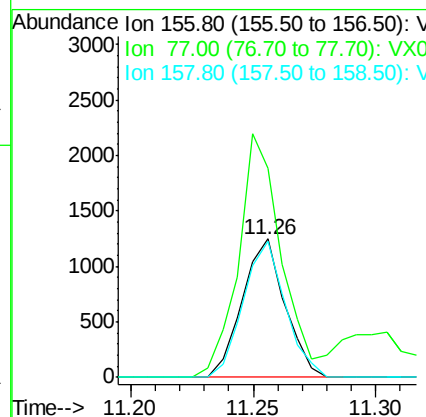
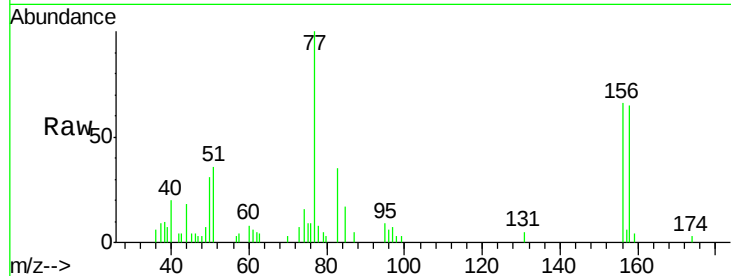
ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion:	156	Resp:	1516
Ion	Ratio	Lower	Upper
156	100		
77	178.8	85.4	256.1
158	96.9	48.8	146.4

Manual Integrations
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4/16/2019 10:53:28 AM



#78

n-propylbenzene

Concen: 0.515 ug/l

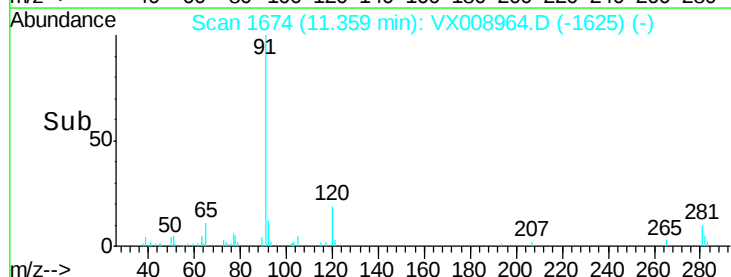
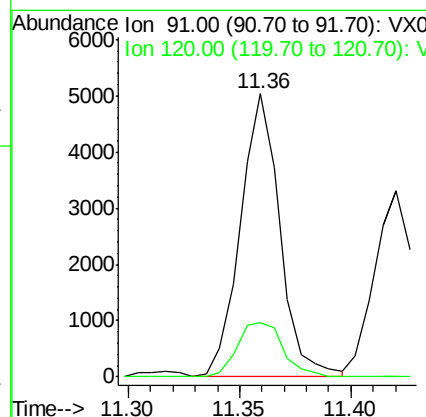
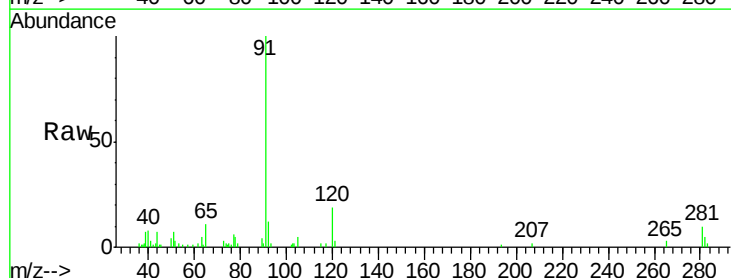
RT: 11.36 min Scan# 1674

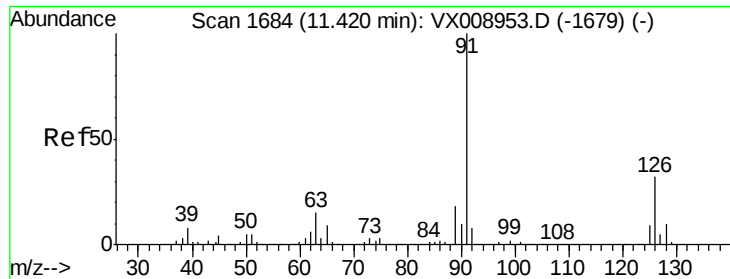
Delta R.T. -0.00 min

Lab File: VX008964.D

Acq: 15 Apr 2019 16:46

Tgt Ion:	91	Resp:	6243
Ion	Ratio	Lower	Upper
91	100		
120	22.2	10.9	32.9





#79

2-Chlorotoluene

Concen: 0.590 ug/l

RT: 11.42 min Scan# 1684

Delta R.T. -0.00 min

Lab File: VX008964.D

Acq: 15 Apr 2019 16:46

Instrument :

MSVOA_X

ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion: 91 Resp: 4310

Ion Ratio Lower Upper

91 100

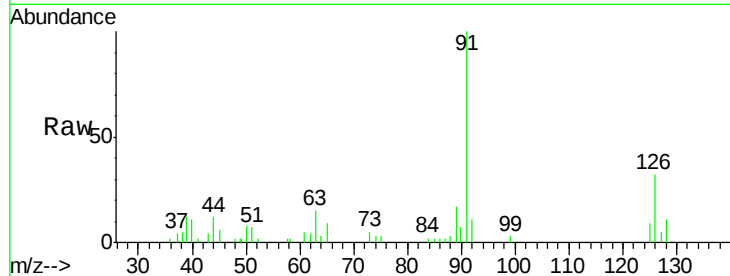
126 29.7 16.3 48.9

Manual Integrations

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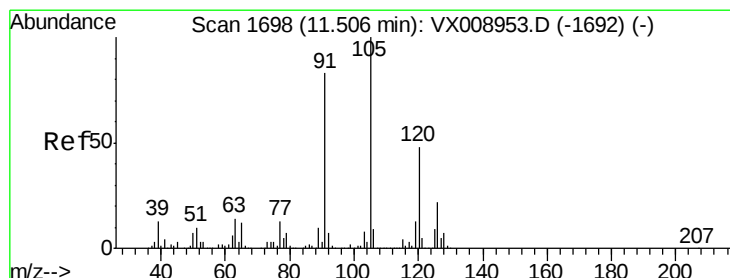
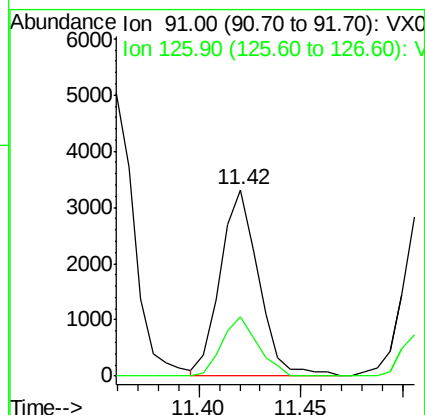
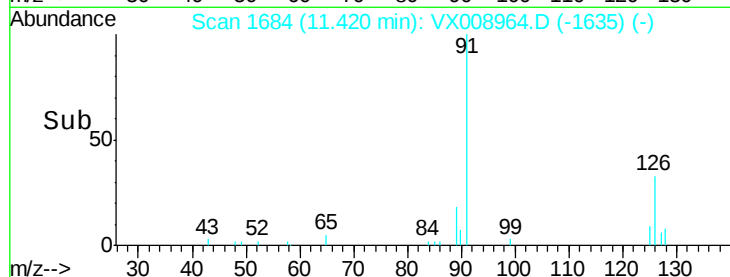
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Abundance Ion 91.00 (90.70 to 91.70): VX008953.D (-1679) (-)

Ion 125.90 (125.60 to 126.60): VX008953.D (-1679) (-)



#80

1,3,5-Trimethylbenzene

Concen: 0.503 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VX008964.D

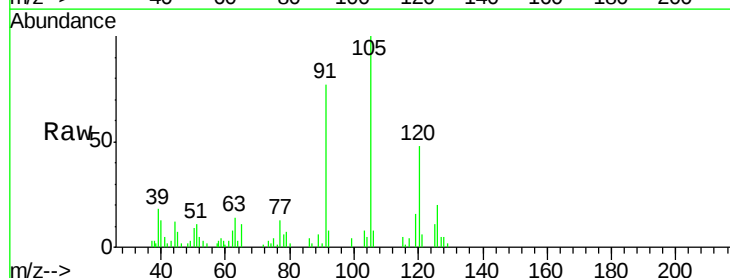
Acq: 15 Apr 2019 16:46

Tgt Ion:105 Resp: 4457

Ion Ratio Lower Upper

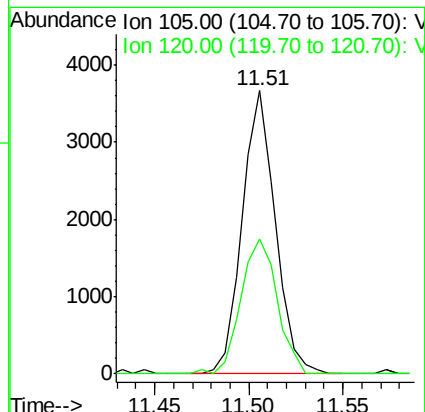
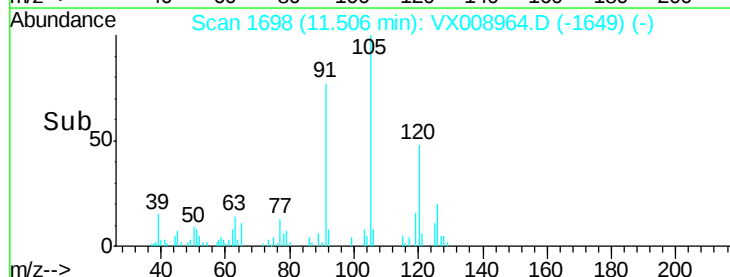
105 100

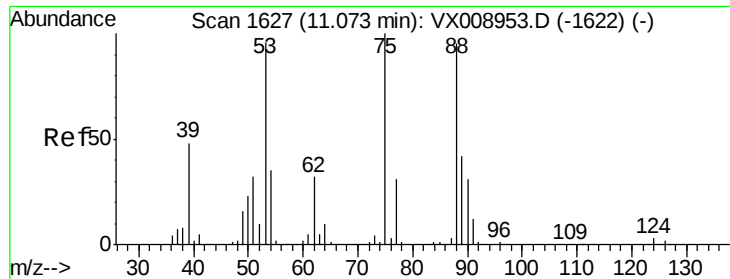
120 52.1 24.1 72.3



Abundance Ion 105.00 (104.70 to 105.70): VX008953.D (-1692) (-)

Ion 120.00 (119.70 to 120.70): VX008953.D (-1692) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 0.476 ug/l m

RT: 11.07 min Scan# 1627

Delta R.T. -0.00 min

Lab File: VX008964.D

Acq: 15 Apr 2019 16:46

Instrument :

MSVOA_X

ClientSampleId :

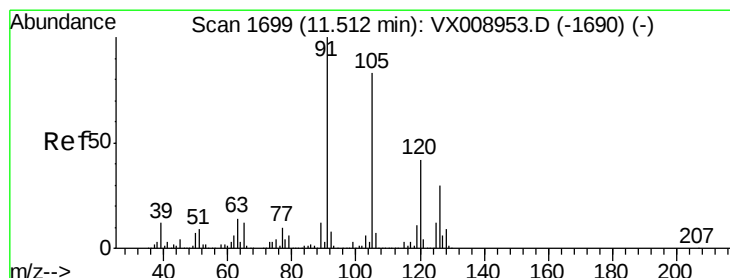
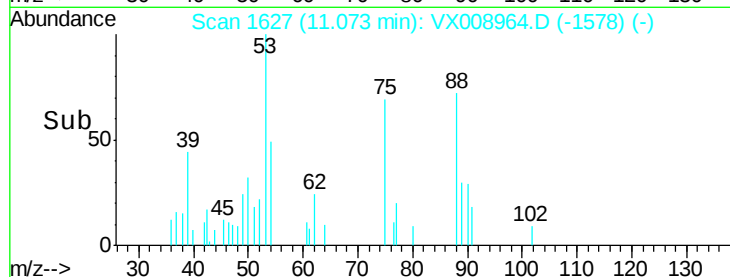
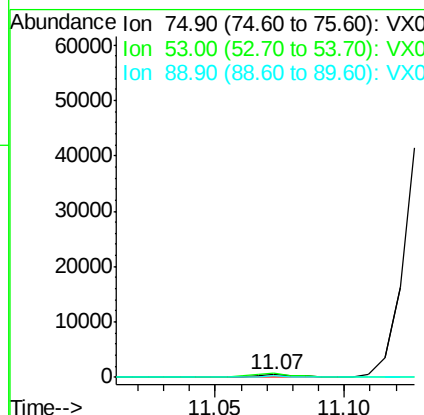
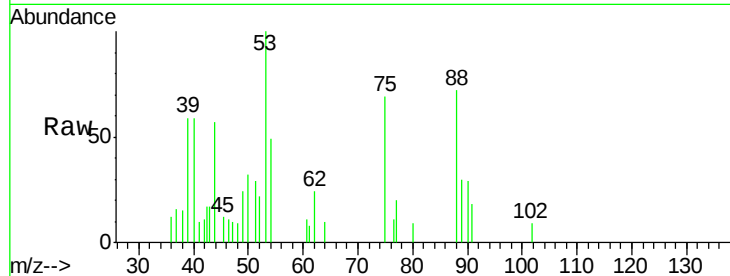
LOD-MDL-WATER-01-QT2-2019

Tot Ion: 75 Resp: 630

Ion	Ratio	Lower	Upper
75	100		
53	23.2	78.2	117.4#
89	0.0	36.0	54.0#

Manual Integrations
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4/16/2019 10:53:28 AM



#82

4-Chlorotoluene

Concen: 0.519 ug/l

RT: 11.51 min Scan# 1699

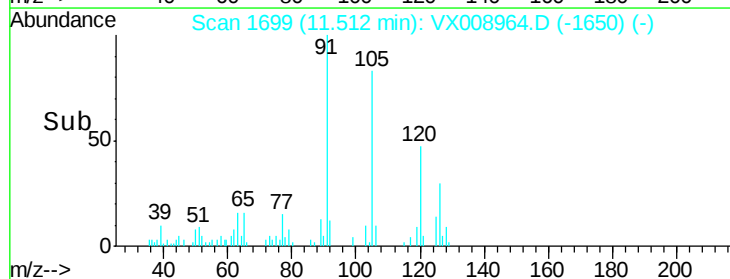
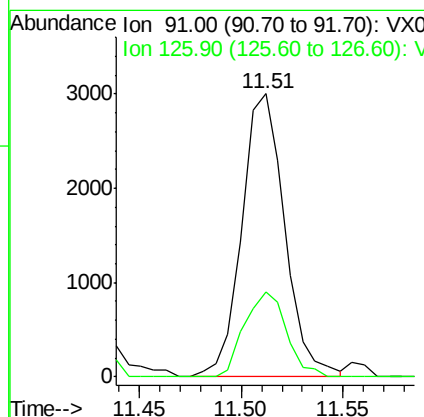
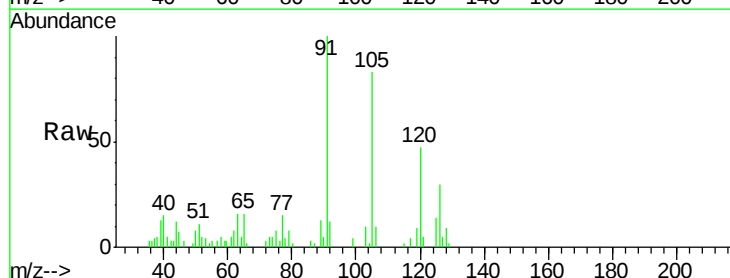
Delta R.T. -0.00 min

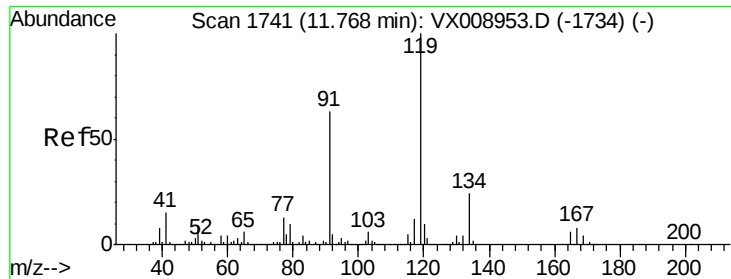
Lab File: VX008964.D

Acq: 15 Apr 2019 16:46

Tgt Ion: 91 Resp: 4399

Ion	Ratio	Lower	Upper
91	100		
126	29.2	14.3	42.9





#83

tert-Butylbenzene

Concen: 0.523 ug/l

RT: 11.77 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VX008964.D

Acq: 15 Apr 2019 16:46

Instrument :

MSVOA_X

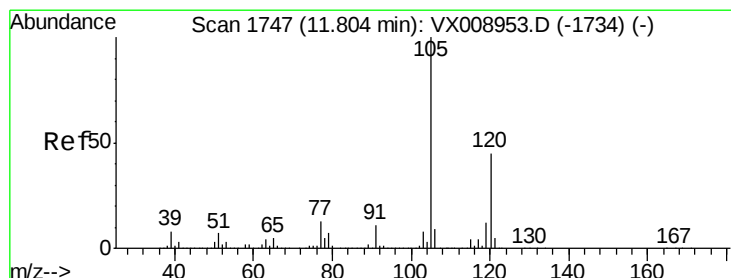
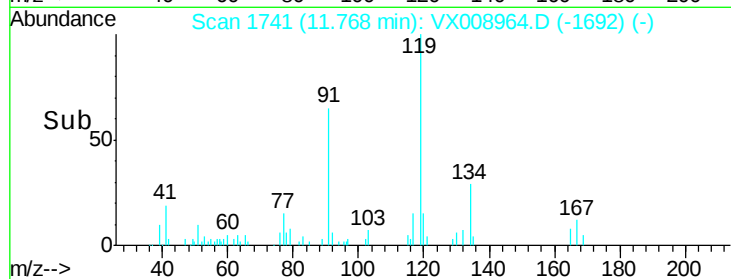
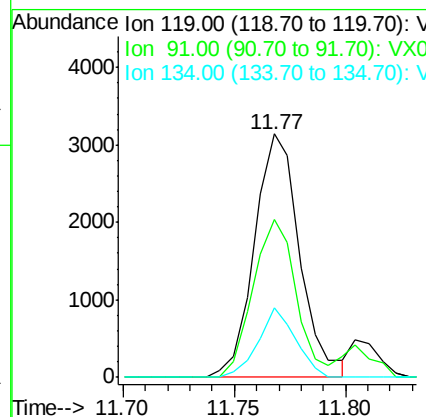
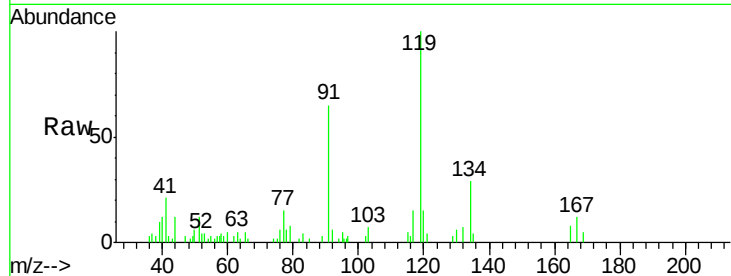
ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion:	119	Resp:	4449
Ion	Ratio	Lower	Upper
119	100		
91	62.0	29.7	89.1
134	23.6	11.2	33.5

Manual Integrations
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#84

1,2,4-Trimethylbenzene

Concen: 0.515 ug/l

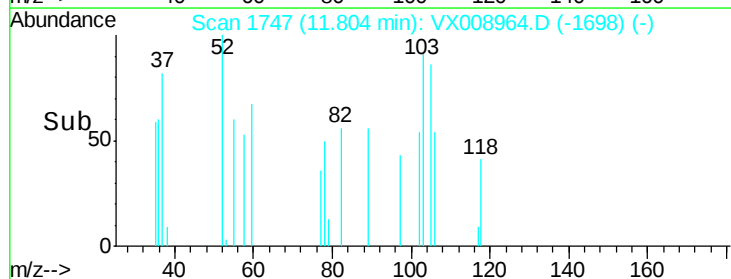
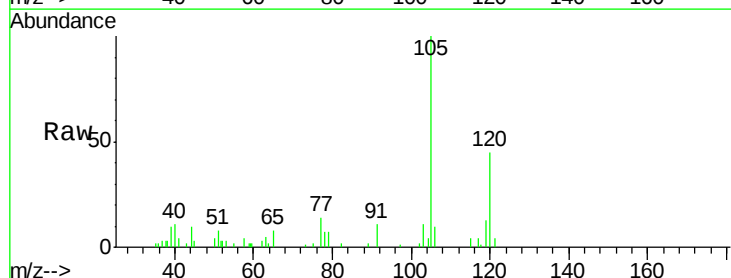
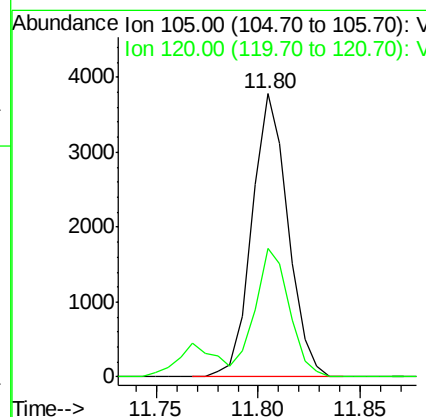
RT: 11.80 min Scan# 1747

Delta R.T. 0.00 min

Lab File: VX008964.D

Acq: 15 Apr 2019 16:46

Tgt Ion:	105	Resp:	4639
Ion	Ratio	Lower	Upper
105	100		
120	43.6	21.9	65.8





#85

sec-Butylbenzene

Concen: 0.501 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. -0.00 min

Lab File: VX008964.D

Acq: 15 Apr 2019 16:46

Instrument :

MSVOA_X

ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion:105 Resp: 5079

Ion Ratio Lower Upper

105 100

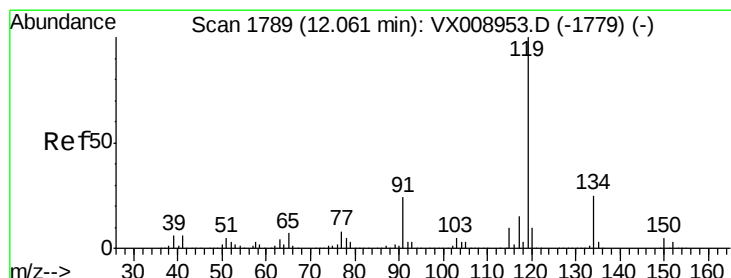
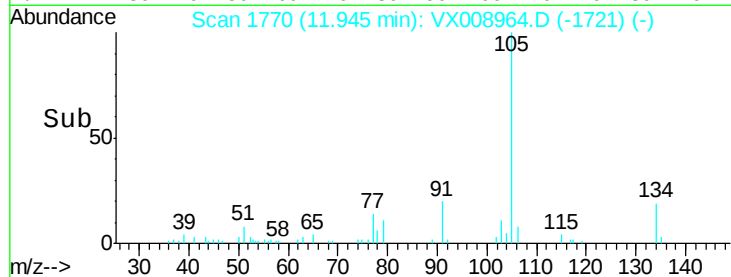
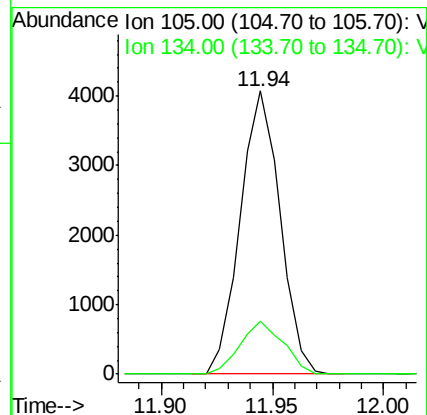
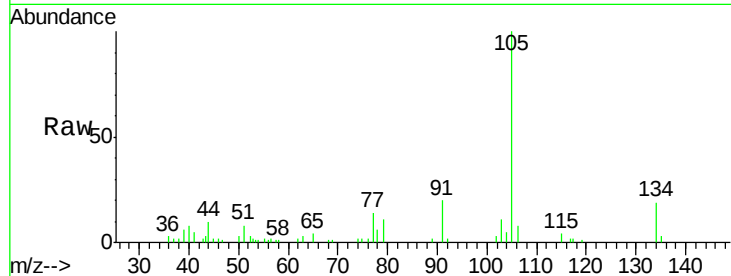
134 20.3 9.6 28.6

Manual Integrations

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MMDadoda

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#86

p-Isopropyltoluene

Concen: 0.500 ug/l

RT: 12.07 min Scan# 1790

Delta R.T. 0.01 min

Lab File: VX008964.D

Acq: 15 Apr 2019 16:46

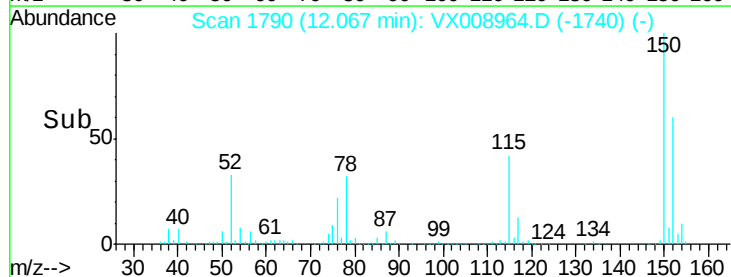
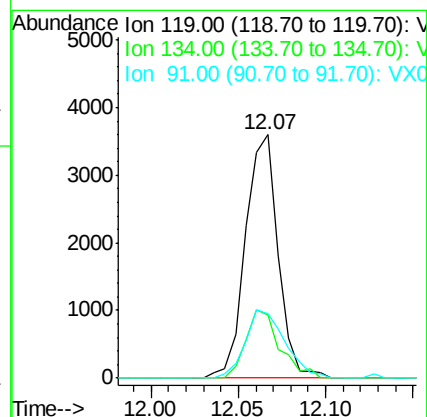
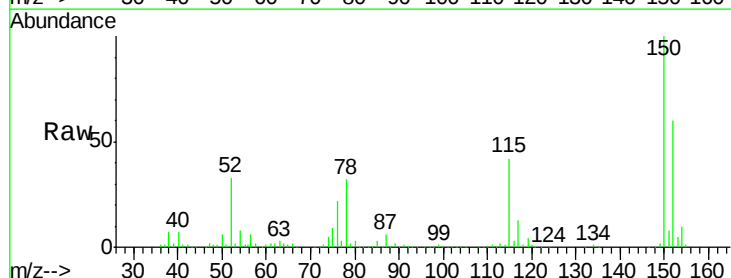
Tgt Ion:119 Resp: 4660

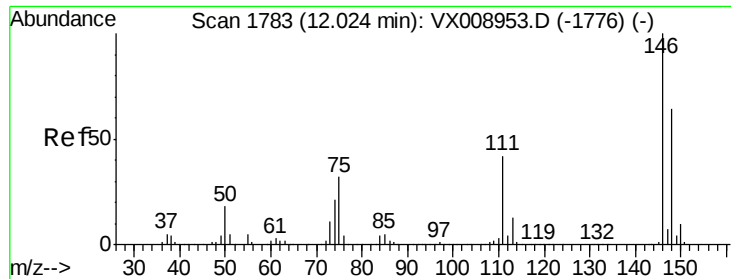
Ion Ratio Lower Upper

119 100

134 29.1 12.9 38.6

91 34.0 11.9 35.5





#87

1,3-Dichlorobenzene

Concen: 0.504 ug/l

RT: 12.02 min Scan# 1783

Delta R.T. -0.00 min

Lab File: VX008964.D

Acq: 15 Apr 2019 16:46

Instrument :

MSVOA_X

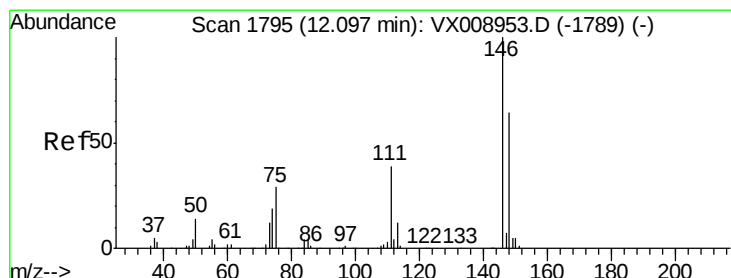
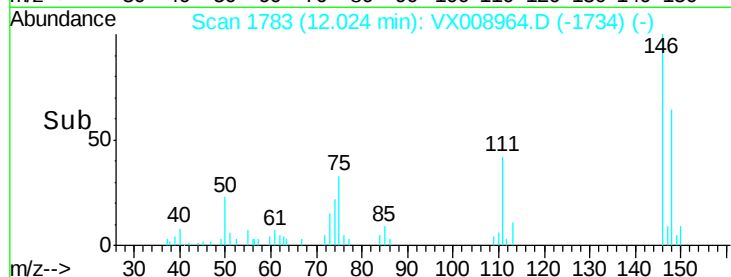
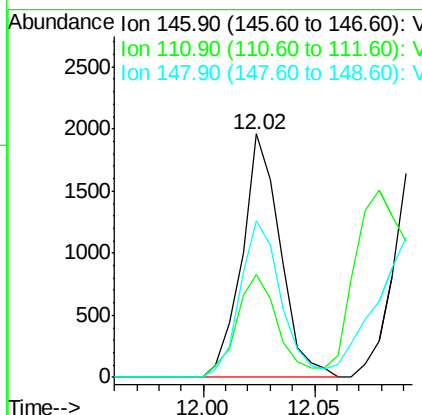
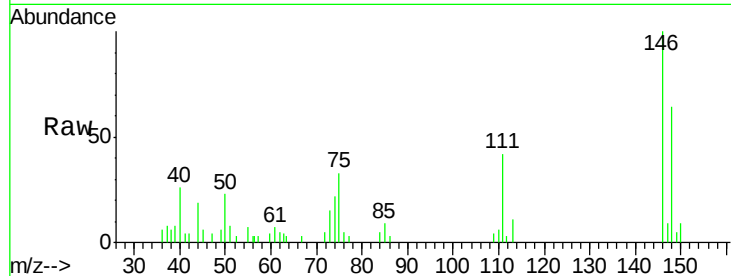
ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion:	146	Resp:	2350
Ion Ratio	Lower	Upper	
146	100		
111	45.7	20.5	61.6
148	68.9	32.2	96.6

Manual Integrations
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4/16/2019 10:53:28 AM



#88

1,4-Dichlorobenzene

Concen: 0.555 ug/l m

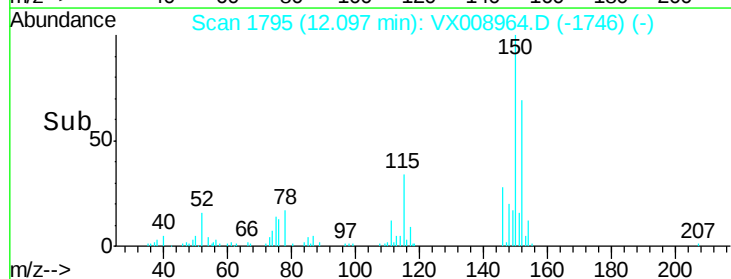
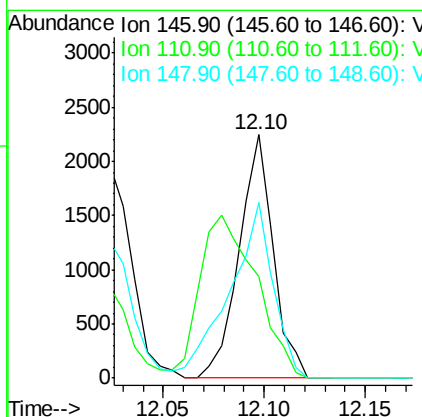
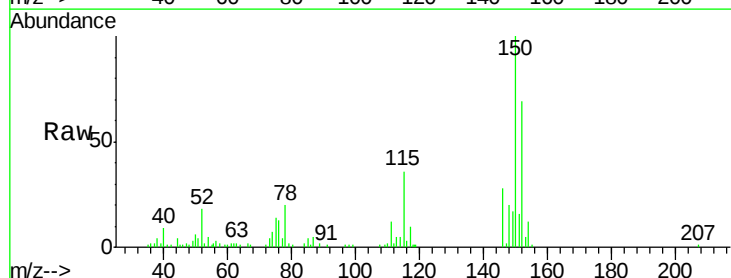
RT: 12.10 min Scan# 1795

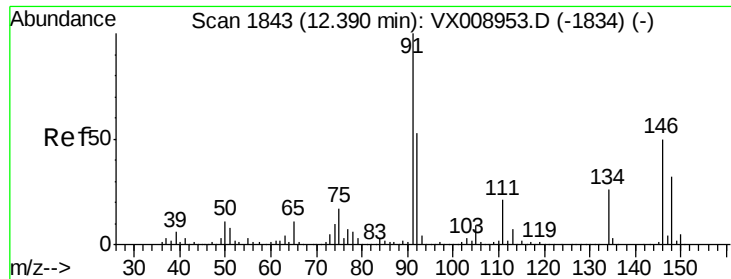
Delta R.T. 0.00 min

Lab File: VX008964.D

Acq: 15 Apr 2019 16:46

Tgt Ion:	146	Resp:	2623
Ion Ratio	Lower	Upper	
146	100		
111	40.9	20.0	59.9
148	61.7	32.2	96.6





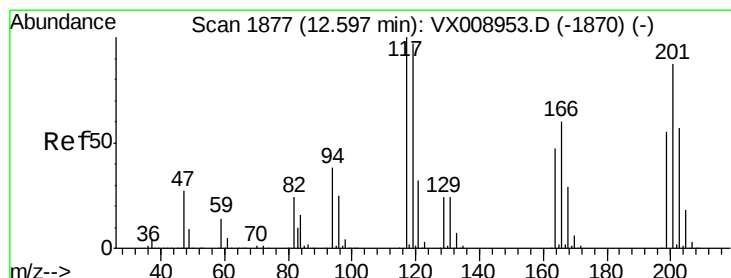
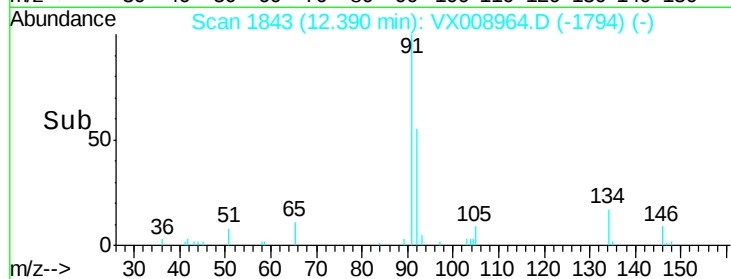
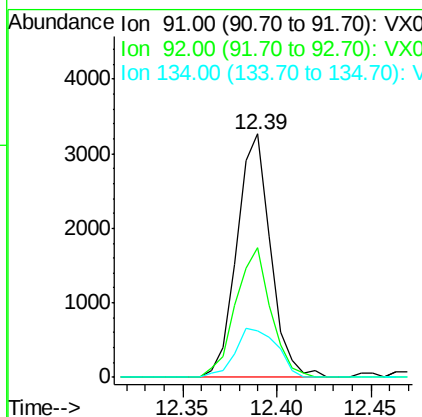
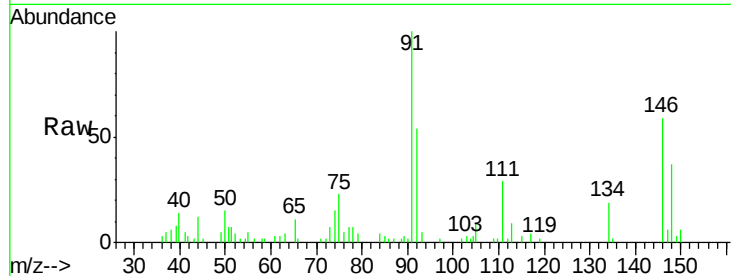
#89
n-Butylbenzene
Concen: 0.466 ug/l
RT: 12.39 min Scan# 1843
Delta R.T. 0.00 min
Lab File: VX008964.D
Acq: 15 Apr 2019 16:46

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

Tot Ion: 91 Resp: 4047
Ion Ratio Lower Upper
91 100
92 55.9 26.6 79.8
134 25.0 12.4 37.2

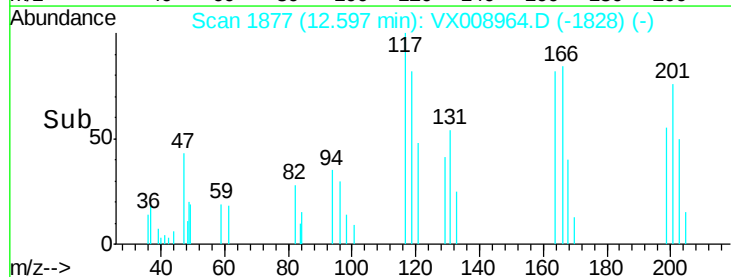
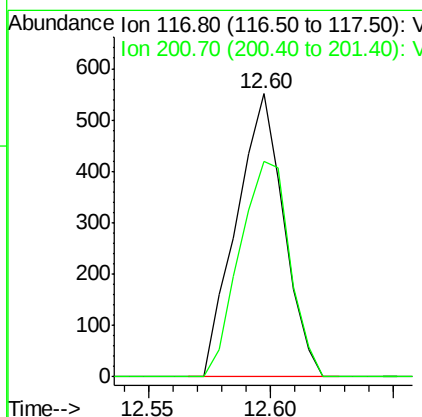
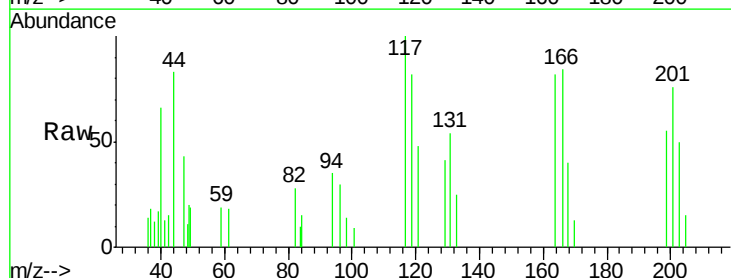
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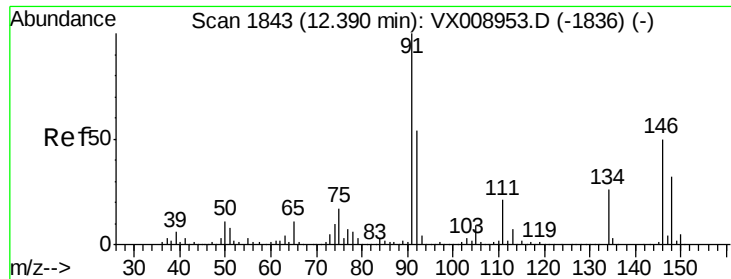
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#90
Hexachloroethane
Concen: 0.481 ug/l
RT: 12.60 min Scan# 1877
Delta R.T. -0.00 min
Lab File: VX008964.D
Acq: 15 Apr 2019 16:46

Tgt Ion: 117 Resp: 740
Ion Ratio Lower Upper
117 100
201 80.7 43.0 129.0





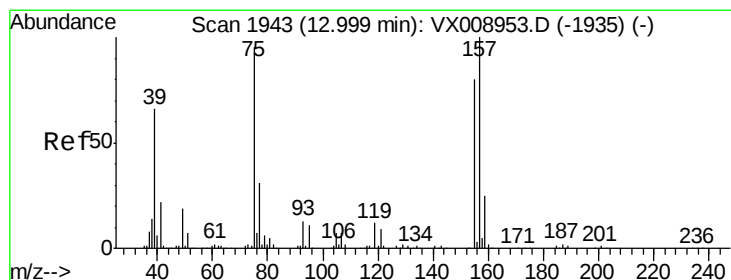
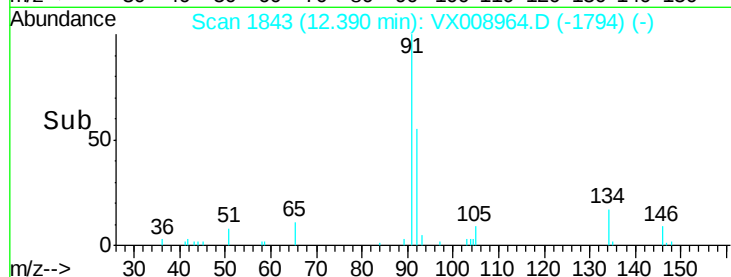
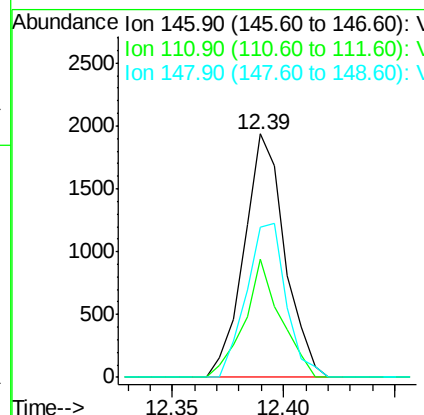
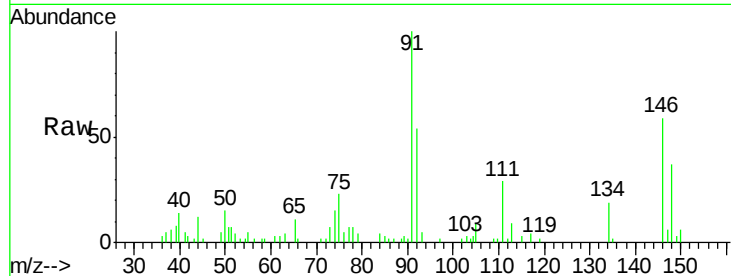
#91
 1,2-Dichlorobenzene
 Concen: 0.536 ug/l
 RT: 12.39 min Scan# 1843
 Delta R.T. 0.00 min
 Lab File: VX008964.D
 Acq: 15 Apr 2019 16:46

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

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.1	20.6	61.9
148	62.0	32.0	96.2

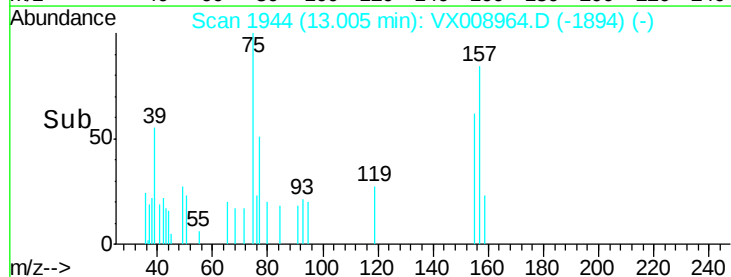
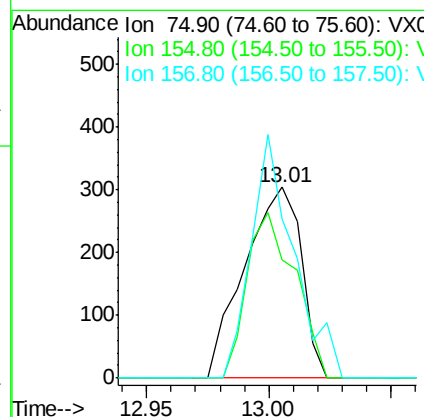
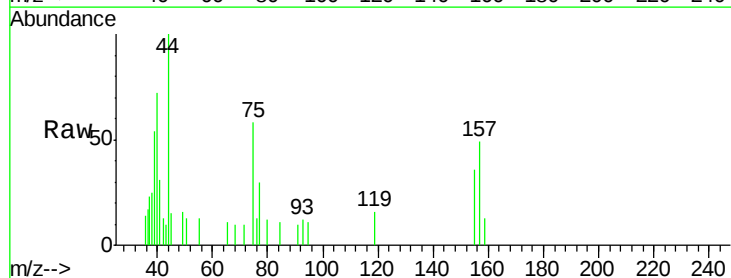
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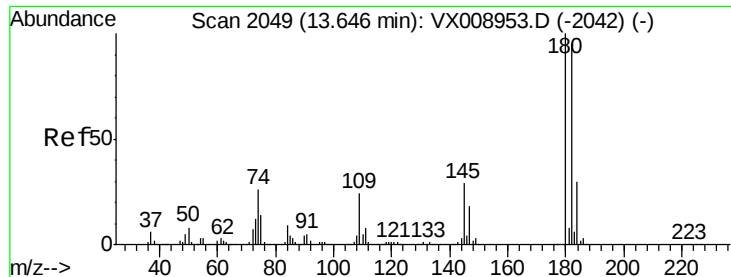
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.555 ug/l
 RT: 13.01 min Scan# 1944
 Delta R.T. 0.01 min
 Lab File: VX008964.D
 Acq: 15 Apr 2019 16:46

Tgt Ion	Ratio	Lower	Upper
75	100		
155	73.5	41.2	123.6
157	96.3	52.5	157.6





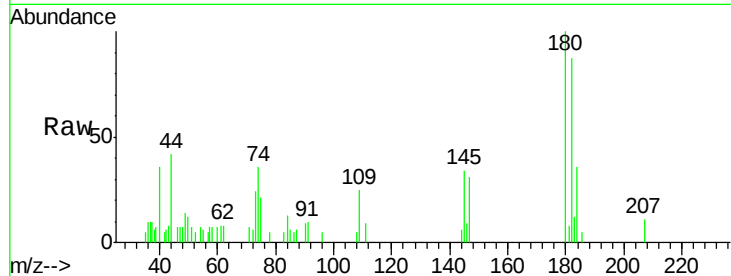
#93
 1,2,4-Trichlorobenzene
 Concen: 0.487 ug/l
 RT: 13.65 min Scan# 2049
 Delta R.T. 0.00 min
 Lab File: VX008964.D
 Acq: 15 Apr 2019 16:46

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

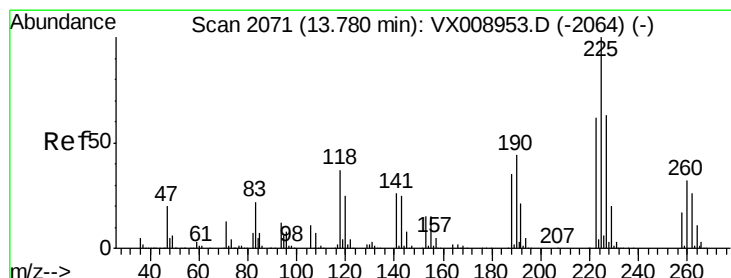
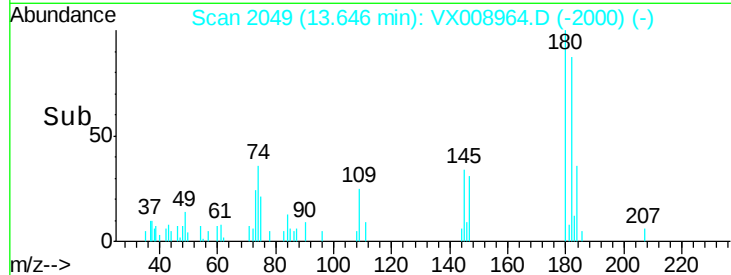
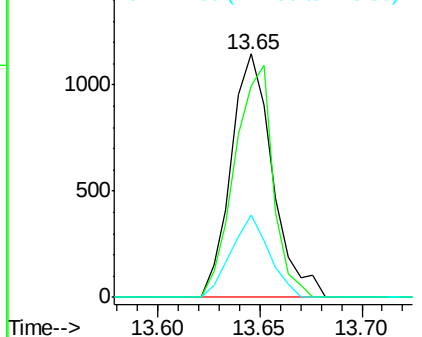
Tot Ion:	180	Resp:	1618
Ion Ratio	Lower	Upper	
180	100		
182	88.1	47.6	142.9
145	31.0	14.8	44.4

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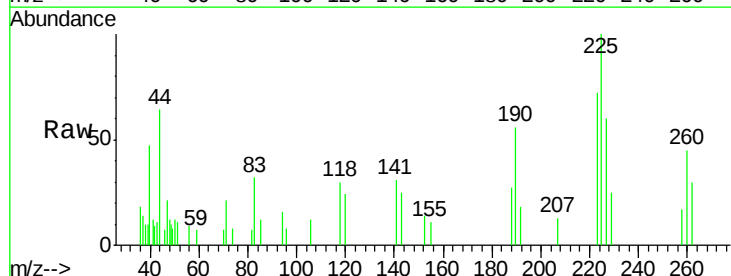


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

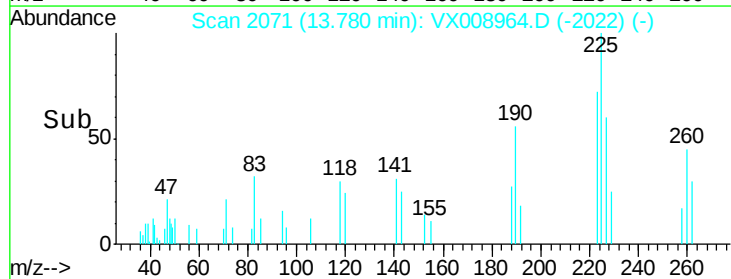
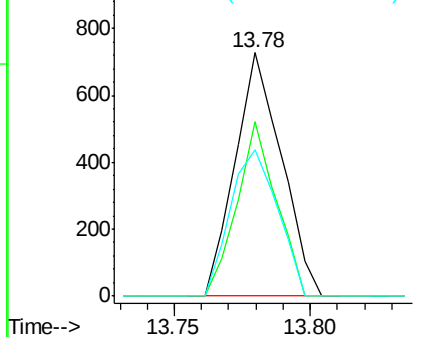


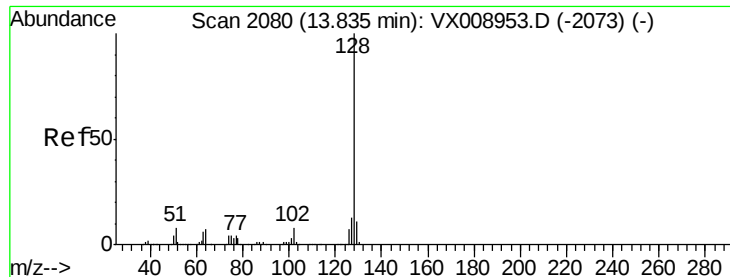
#94
 Hexachlorobutadiene
 Concen: 0.519 ug/l
 RT: 13.78 min Scan# 2071
 Delta R.T. -0.00 min
 Lab File: VX008964.D
 Acq: 15 Apr 2019 16:46

Tgt Ion:	225	Resp:	860
Ion Ratio	Lower	Upper	
225	100		
223	60.9	31.1	93.2
227	61.2	32.0	96.2



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





#95

Naphthalene

Concen: 0.451 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX008964.D

Acq: 15 Apr 2019 16:46

Instrument :

MSVOA_X

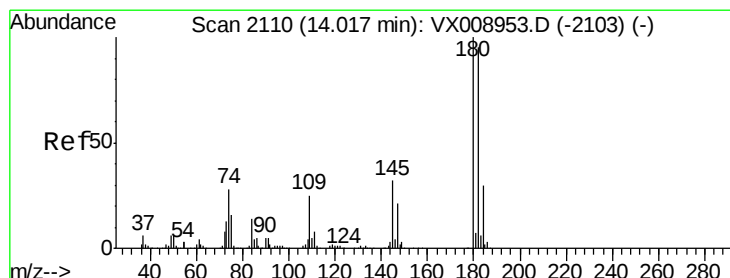
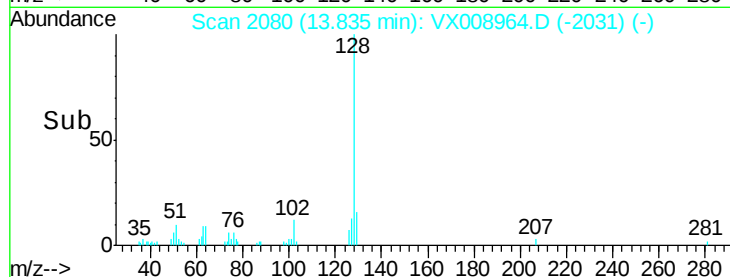
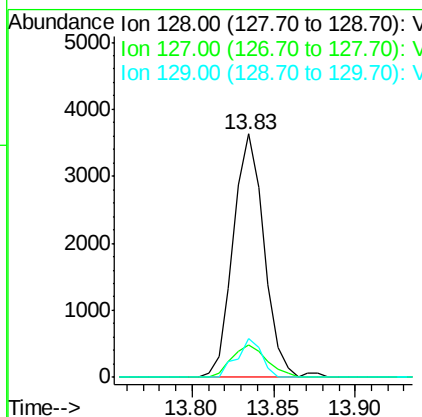
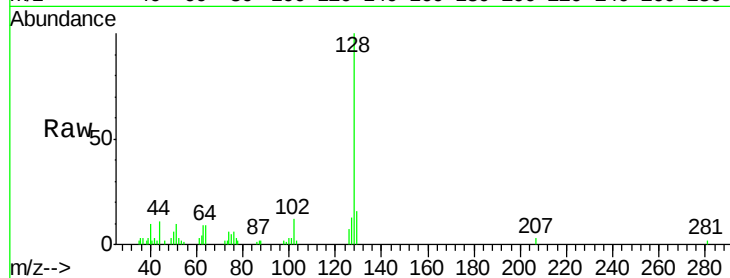
ClientSampleId :

LOD-MDL-WATER-01-QT2-2019

Tot Ion:	128	Resp:	4802
Ion	Ratio	Lower	Upper
128	100		
127	15.1	10.6	16.0
129	12.7	8.6	13.0

Manual Integrations
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#96

1,2,3-Trichlorobenzene

Concen: 0.470 ug/l

RT: 14.02 min Scan# 2111

Delta R.T. 0.01 min

Lab File: VX008964.D

Acq: 15 Apr 2019 16:46

Tgt Ion:	180	Resp:	1540
Ion	Ratio	Lower	Upper
180	100		
182	98.7	47.8	143.4
145	32.3	15.8	47.3

