

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU031419\
 Data File : VU030008.D
 Acq On : 12 Mar 2019 15:52
 Operator : JC/SP
 Sample : K1560-07 LOD MDL0.25ppb
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 12 Sample Multiplier: 1

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

Quant Time: Mar 13 05:52:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\524U031419DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Wed Mar 13 04:21:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	5.74	96	59056	1.00	ug/l	0.00

System Monitoring Compounds

57) 4-Bromofluorobenzene	10.31	95	19476	0.91	ug/l	0.00
Spiked Amount 1.000			Recovery	=	91.00%	
68) 1,2-Dichlorobenzene-d4	11.86	152	23161	0.95	ug/l	0.00
Spiked Amount 1.000			Recovery	=	95.00%	

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	5450	0.252 ug/l	99
3) Chloromethane	1.33	50	7047	0.287 ug/l	93
4) Vinyl Chloride	1.40	62	5368	0.255 ug/l	99
5) Bromomethane	1.63	94	3426	0.285 ug/l	98
6) Chloroethane	1.70	64	3279	0.270 ug/l	96
7) Trichlorofluoromethane	1.88	101	7377	0.270 ug/l	91
8) 1,1,2-Trichloro-1,2,2-trif	2.29	101	3620	0.244 ug/l	94
9) 1,1-Dichloroethene	2.28	96	3512	0.238 ug/l	86
10) Iodomethane	2.41	142	2876	0.225 ug/l	98
11) Allyl Chloride	2.59	41	5067	0.243 ug/l	99
12) Acrylonitrile	2.94	53	1960	0.614 ug/l	90
13) Acetone	2.32	43	4972	1.790 ug/l	90
14) Carbon Disulfide	2.48	76	12897	0.251 ug/l #	94
15) Methylene Chloride	2.70	84	6158	0.351 ug/l	95
16) trans-1,2-Dichloroethene	2.98	96	4301	0.253 ug/l	94
17) 1,1-Dichloroethane	3.44	63	7400	0.257 ug/l	96
18) 2-Butanone	4.29	43	4045	1.052 ug/l	99
19) Cyclohexane	4.99	56	5264	0.214 ug/l #	85
20) Methylcyclohexane	6.41	83	6527	0.240 ug/l	96
21) 2,2-Dichloropropane	4.22	77	6438	0.266 ug/l	96
22) cis-1,2-Dichloroethene	4.23	96	4549	0.240 ug/l	97
23) Diethyl Ether	2.10	59	2913	0.265 ug/l #	85
24) tert-Butyl Alcohol	2.83	59	4055	3.442 ug/l #	86
25) Methyl tert-Butyl Ether	3.00	73	9203	0.247 ug/l	99
26) Bromochloromethane	4.55	128	1980	0.239 ug/l	92
27) Chloroform	4.68	83	7145	0.236 ug/l	99
28) 1,1,1-Trichloroethane	4.91	97	6302	0.253 ug/l	98
29) 1,1-Dichloropropene	5.13	75	5517	0.243 ug/l	98
30) Carbon Tetrachloride	5.13	117	5090	0.229 ug/l	96
31) Isopropyl Ether	3.57	45	10542	0.260 ug/l	98
32) Ethyl-t-butyl ether	4.08	59	9612	0.246 ug/l	99
33) Tert-Amyl methyl ether	5.59	73	8518	0.239 ug/l	97
34) Propionitrile	4.34	54	861	0.803 ug/l #	45
35) Benzene	5.39	78	16489	0.249 ug/l	93
36) 1,2-Dichloroethane	5.41	62	4463	0.252 ug/l #	92
37) Trichloroethene	6.19	130	5040	0.264 ug/l	100
38) 1,2-Dichloropropane	6.44	63	4399	0.261 ug/l	96
41) Tetrahydrofuran	4.65	42	532	0.206 ug/l #	61
42) 1-Chlorobutane	5.06	56	7368	0.248 ug/l	95
43) Dibromomethane	6.56	93	2275	0.261 ug/l	89
44) Bromodichloromethane	6.76	83	4788	0.230 ug/l	91

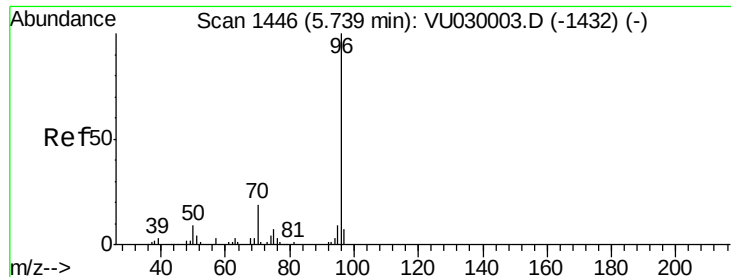
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU031419\
 Data File : VU030008.D
 Acq On : 12 Mar 2019 15:52
 Operator : JC/SP
 Sample : K1560-07 LOD MDL0.25ppb
 Misc : 25.0mL/MSVOA_U/WATER
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Instrument :
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 LOD-MDL-WATER-01-QT1-2019

Quant Time: Mar 13 05:52:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\524U031419DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Wed Mar 13 04:21:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 4-Methyl-2-Pentanone	7.47	43	10410	1.208	ug/l	96
46) t-1,4-Dichloro-2-butene	10.50	75	4838	2.350	ug/l #	43
47) Methyl methacrylate	6.64	69	2840	0.389	ug/l	88
49) Toluene	7.64	92	9381	0.235	ug/l	94
50) t-1,3-Dichloropropene	7.89	75	4166	0.224	ug/l	99
51) cis-1,3-Dichloropropene	7.28	75	5233	0.223	ug/l #	89
52) 1,1,2-Trichloroethane	8.07	97	3004	0.244	ug/l	93
53) 1,3-Dichloropropane	8.25	76	5099	0.247	ug/l	99
54) 2-Hexanone	8.38	43	7152	1.152	ug/l	87
55) Dibromochloromethane	8.48	129	3285	0.221	ug/l	95
56) 1,2-Dibromoethane	8.59	107	2838	0.239	ug/l	89
58) Tetrachloroethene	8.22	164	4642	0.268	ug/l	96
59) Chlorobenzene	9.12	112	11477	0.251	ug/l	97
60) 1,1,1,2-Tetrachloroethane	9.21	131	3987	0.247	ug/l	100
61) Pentachloroethane	11.10	117	2797	0.225	ug/l	91
62) Hexachloroethane	12.14	117	2900	0.231	ug/l	90
63) Ethyl Benzene	9.25	91	16808	0.224	ug/l	100
64) m/p-Xylenes	9.37	106	12521	0.424	ug/l	99
65) o-Xylene	9.78	106	6354	0.220	ug/l	97
66) Styrene	9.79	104	9735	0.205	ug/l	99
67) Bromoform	9.96	173	1806	0.213	ug/l #	97
69) Isopropylbenzene	10.16	105	18537	0.246	ug/l	100
70) 1,1,2,2-Tetrachloroethane	10.46	83	4373	0.288	ug/l	97
71) 1,2,3-Trichloropropane	10.50	75	4838	0.423	ug/l #	75
72) Bromobenzene	10.45	156	4456	0.225	ug/l	92
73) n-propylbenzene	10.59	120	5049	0.236	ug/l	97
74) 2-Chlorotoluene	10.66	126	4189	0.223	ug/l	97
75) 1,3,5-Trimethylbenzene	10.77	105	13143	0.204	ug/l	100
76) 4-Chlorotoluene	10.77	126	4835	0.253	ug/l	91
77) tert-Butylbenzene	11.10	119	13821	0.220	ug/l	96
78) 1,2,4-Trimethylbenzene	11.15	105	15737	0.241	ug/l	98
79) sec-Butylbenzene	11.32	105	22032	0.261	ug/l	100
80) Nitrobenzene	12.66	77	141	0.519	ug/l #	39
81) p-Isopropyltoluene	11.48	119	17831	0.252	ug/l	98
82) 1,3-Dichlorobenzene	11.42	146	12583	0.315	ug/l	99
83) 1,4-Dichlorobenzene	11.42	146	12583	0.313	ug/l	99
84) n-Butylbenzene	11.89	91	15303	0.232	ug/l	98
85) 1,2-Dichlorobenzene	11.88	146	8720	0.234	ug/l	95
87) 1,2,4-Trichlorobenzene	13.50	180	5650	0.210	ug/l	94
88) Hexachlorobutadiene	13.69	225	6959	0.478	ug/l	94
90) 1,2,3-Trichlorobenzene	13.99	180	6625	0.272	ug/l	97

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



#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 5.74 min Scan# 1446

Delta R.T. 0.00 min

Lab File: VU030008.D

Acq: 12 Mar 2019 15:52

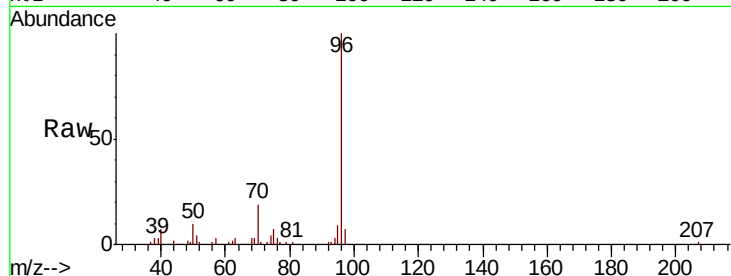
Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

Tgt Ion:	96	Resp:	59056
Ion	Ratio	Lower	Upper
96	100		
70	18.8	15.5	23.3
95	8.4	6.6	9.8
97	6.2	0.0	0.0#



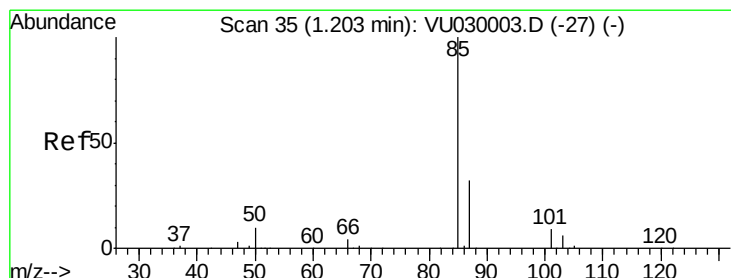
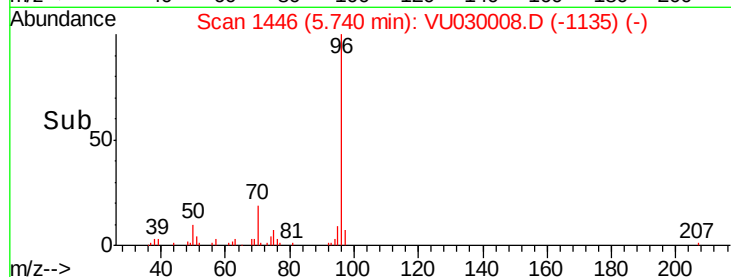
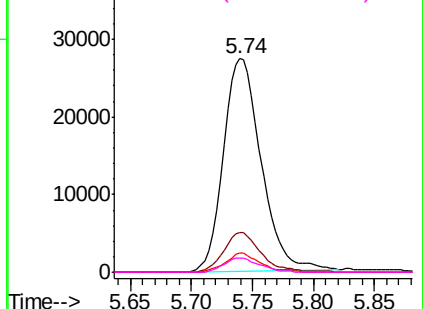
Abundance

Ion 96.00 (95.70 to 96.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0



#2

Dichlorodifluoromethane

Concen: 0.252 ug/l

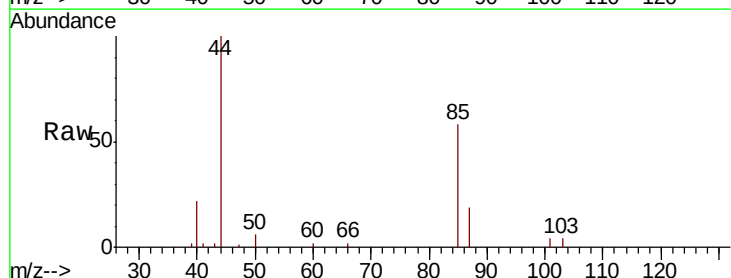
RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU030008.D

Acq: 12 Mar 2019 15:52

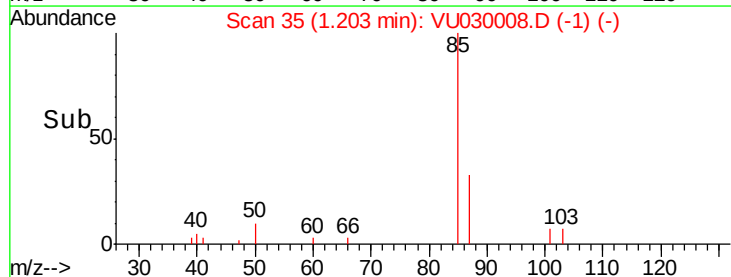
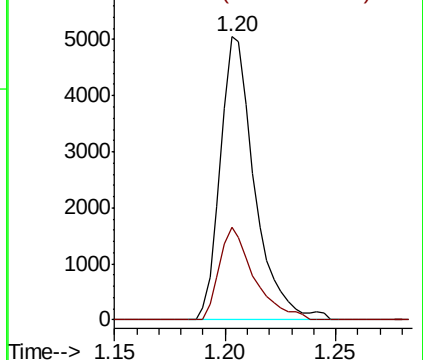
Tgt Ion:	85	Resp:	5450
Ion	Ratio	Lower	Upper
85	100		
87	32.8	16.2	48.6

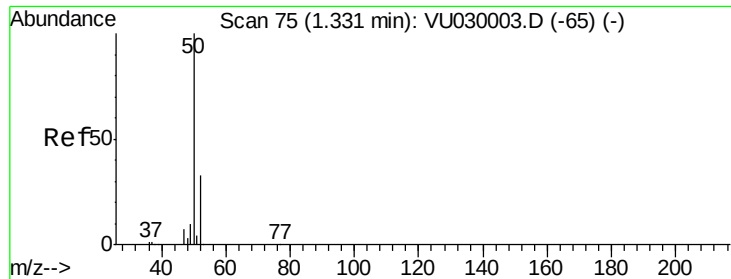


Abundance

Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0





#3

Chloromethane

Concen: 0.287 ug/l

RT: 1.33 min Scan# 75

Delta R.T. 0.00 min

Lab File: VU030008.D

Acq: 12 Mar 2019 15:52

Instrument :

MSVOA_U

ClientSampleId :

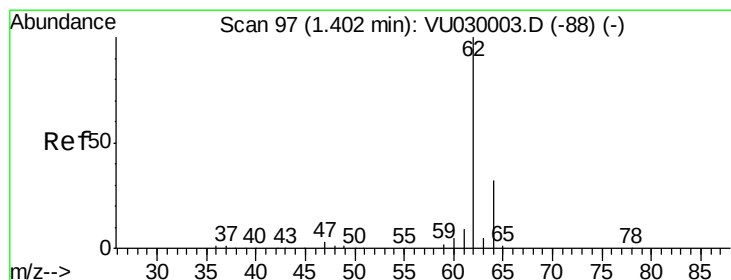
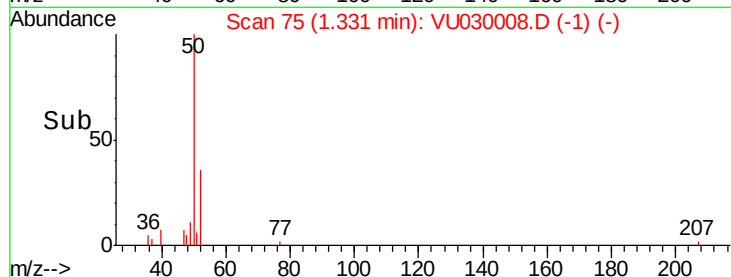
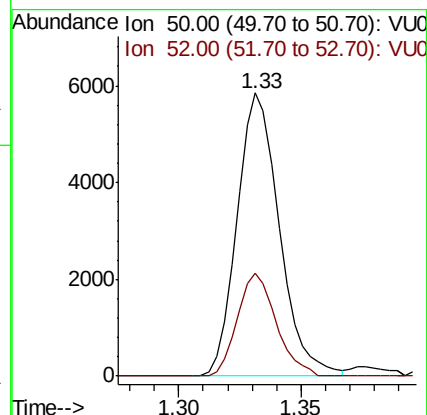
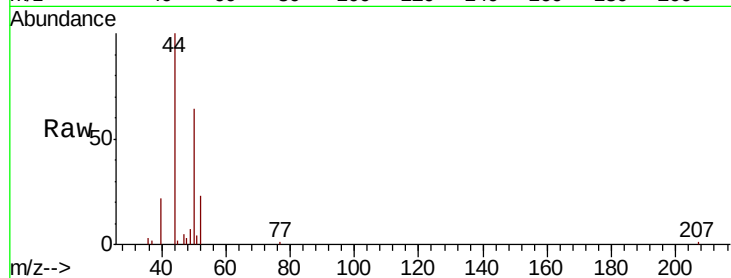
LOD-MDL-WATER-01-QT1-2019

Tgt Ion: 50 Resp: 7047

Ion Ratio Lower Upper

50 100

52 36.3 26.1 39.1



#4

Vinyl Chloride

Concen: 0.255 ug/l

RT: 1.40 min Scan# 97

Delta R.T. 0.00 min

Lab File: VU030008.D

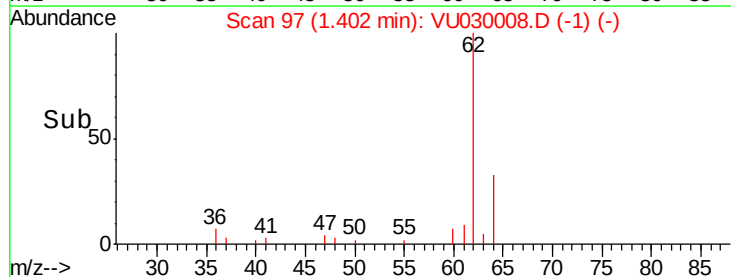
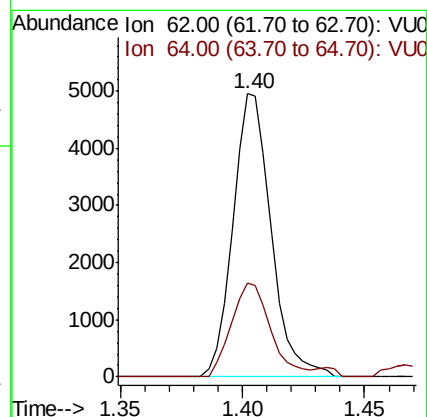
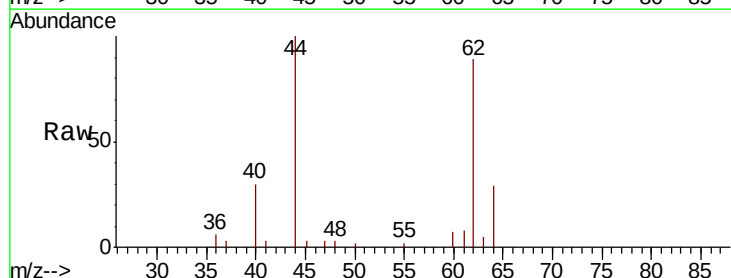
Acq: 12 Mar 2019 15:52

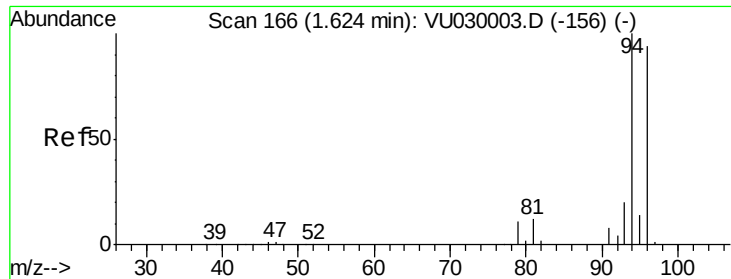
Tgt Ion: 62 Resp: 5368

Ion Ratio Lower Upper

62 100

64 33.1 26.0 39.0





#5

Bromomethane

Concen: 0.285 ug/l

RT: 1.63 min Scan# 168

Delta R.T. 0.01 min

Lab File: VU030008.D

Acq: 12 Mar 2019 15:52

Instrument :

MSVOA_U

ClientSampleId :

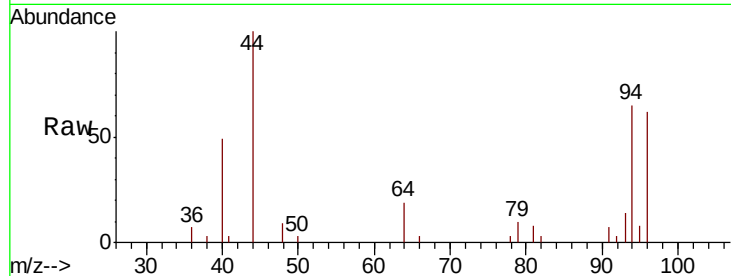
LOD-MDL-WATER-01-QT1-2019

Tgt Ion: 94 Resp: 3426

Ion Ratio Lower Upper

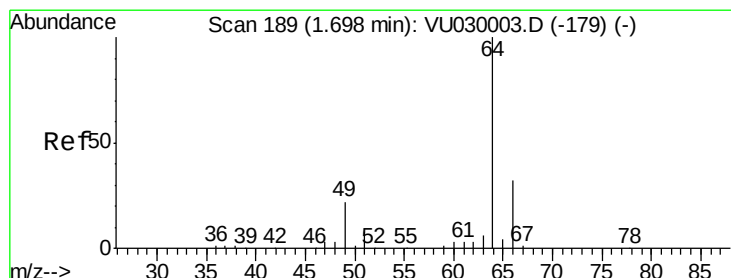
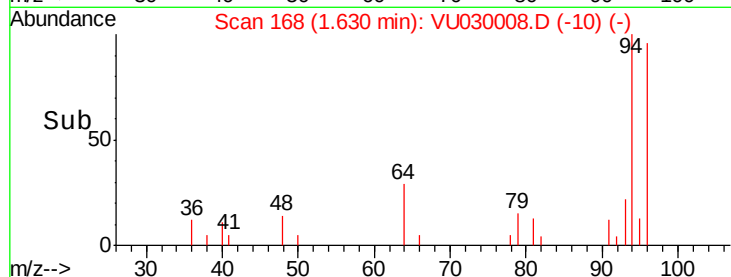
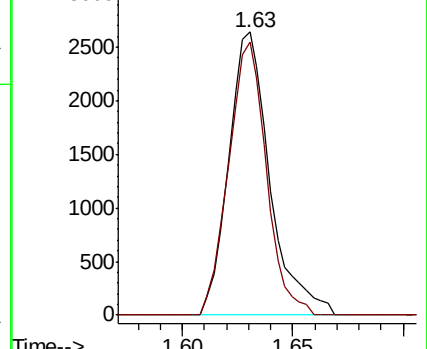
94 100

96 96.3 75.2 112.8



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0



#6

Chloroethane

Concen: 0.270 ug/l

RT: 1.70 min Scan# 189

Delta R.T. 0.00 min

Lab File: VU030008.D

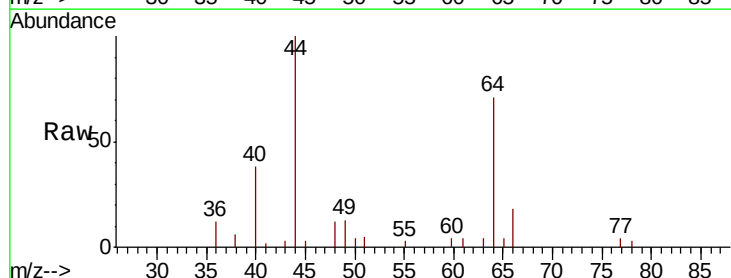
Acq: 12 Mar 2019 15:52

Tgt Ion: 64 Resp: 3279

Ion Ratio Lower Upper

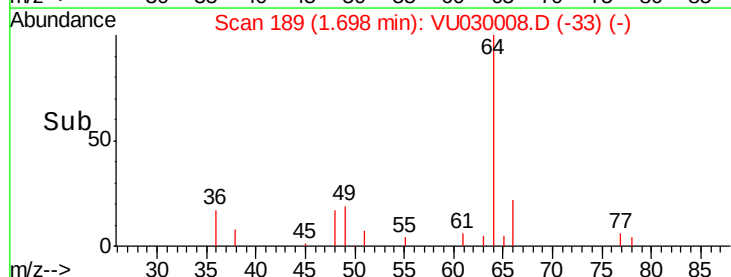
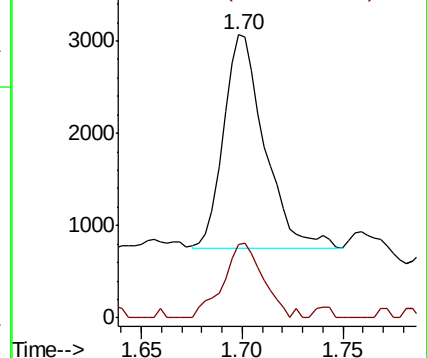
64 100

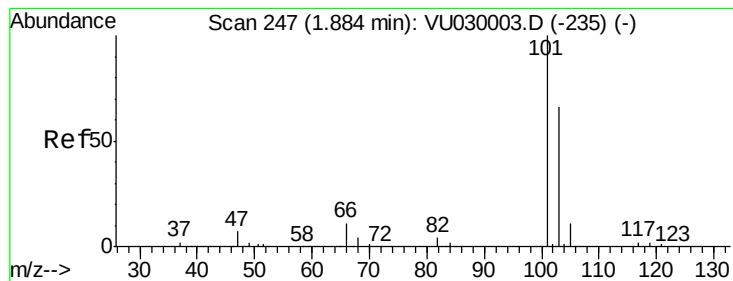
66 34.4 25.8 38.6



Abundance Ion 64.00 (63.70 to 64.70): VU0

Ion 66.00 (65.70 to 66.70): VU0



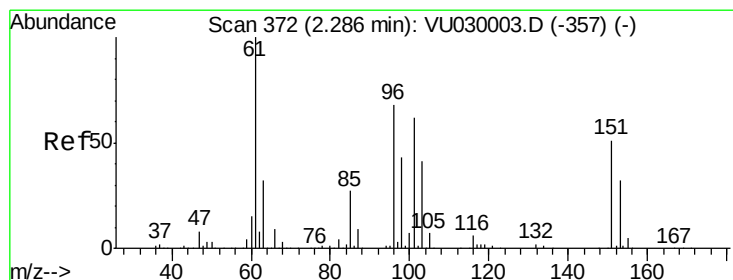
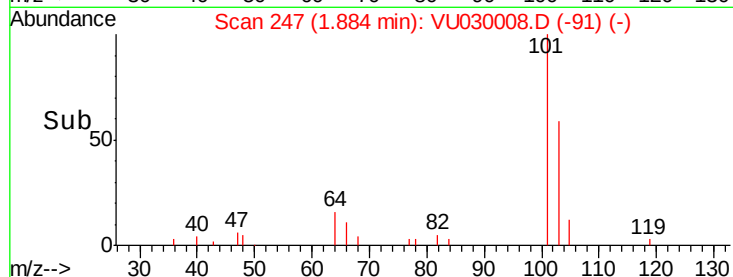
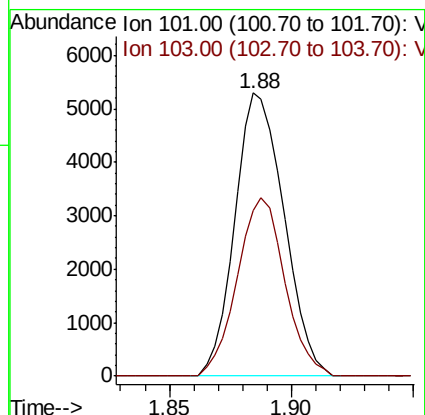
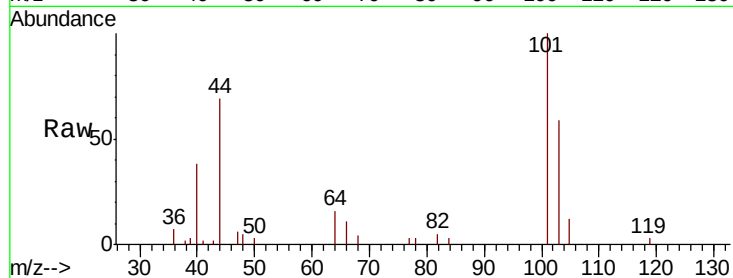


#7

Trichlorofluoromethane
 Concen: 0.270 ug/l
 RT: 1.88 min Scan# 247
 Delta R.T. 0.00 min
 Lab File: VU030008.D
 Acq: 12 Mar 2019 15:52

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

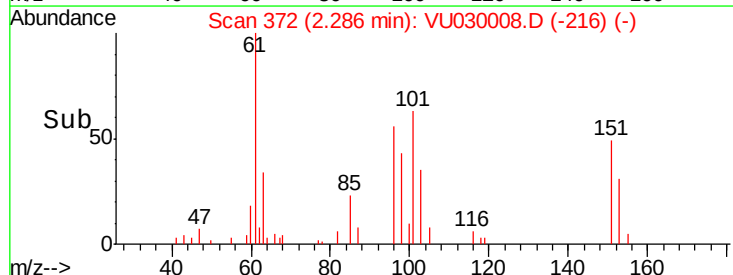
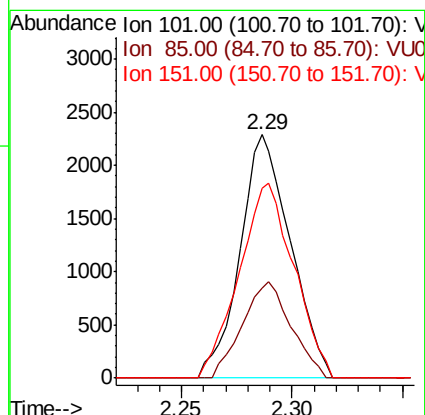
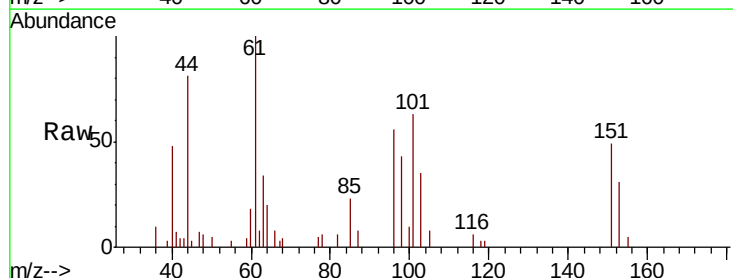
Tgt Ion:101 Resp: 7377
 Ion Ratio Lower Upper
 101 100
 103 58.7 52.6 79.0

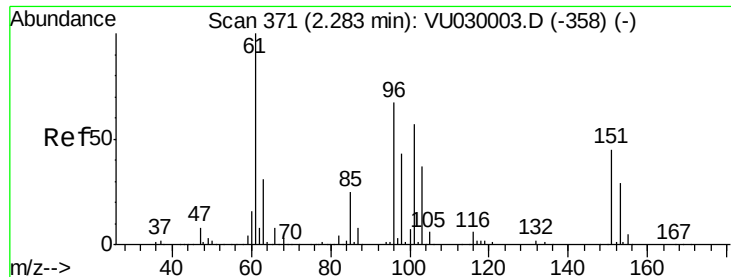


#8

1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.244 ug/l
 RT: 2.29 min Scan# 372
 Delta R.T. 0.00 min
 Lab File: VU030008.D
 Acq: 12 Mar 2019 15:52

Tgt Ion:101 Resp: 3620
 Ion Ratio Lower Upper
 101 100
 85 38.2 33.6 50.4
 151 87.1 65.0 97.4





#9

1,1-Dichloroethene

Concen: 0.238 ug/l

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU030008.D

Acq: 12 Mar 2019 15:52

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

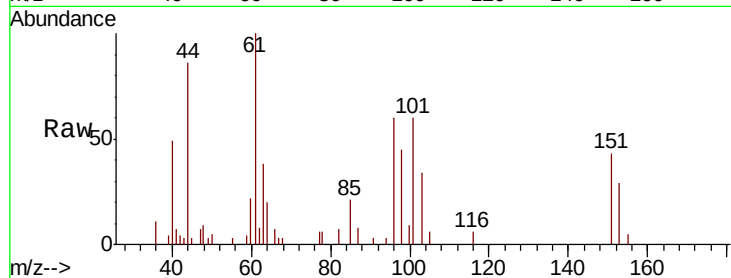
Tgt Ion: 96 Resp: 3512

Ion Ratio Lower Upper

96 100

61 168.0 0.0 447.0

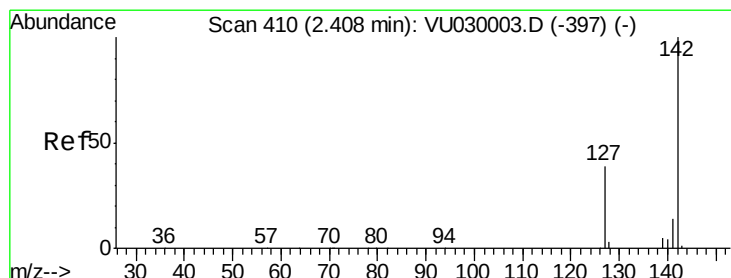
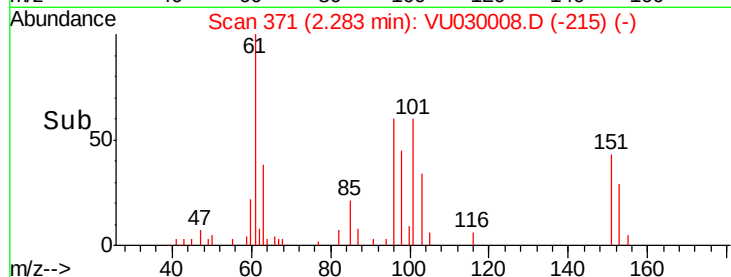
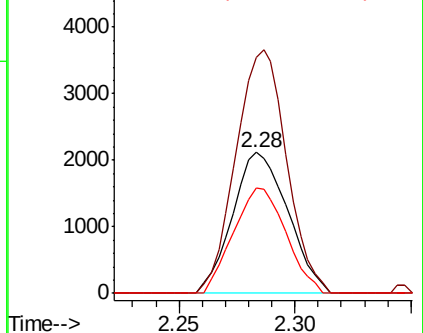
98 75.0 0.0 129.2



Abundance Ion 96.00 (95.70 to 96.70): VU030003.D (-358) (-)

Ion 61.00 (60.70 to 61.70): VU030003.D (-358) (-)

Ion 98.00 (97.70 to 98.70): VU030003.D (-358) (-)



#10

Iodomethane

Concen: 0.225 ug/l

RT: 2.41 min Scan# 411

Delta R.T. 0.00 min

Lab File: VU030008.D

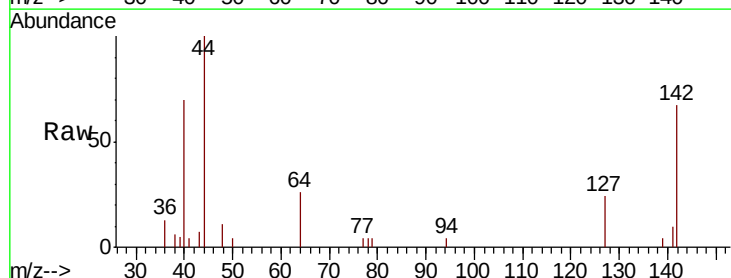
Acq: 12 Mar 2019 15:52

Tgt Ion: 142 Resp: 2876

Ion Ratio Lower Upper

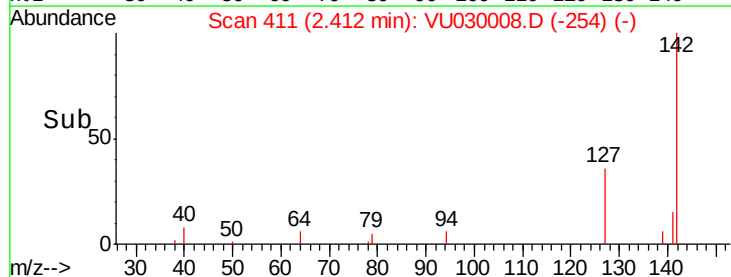
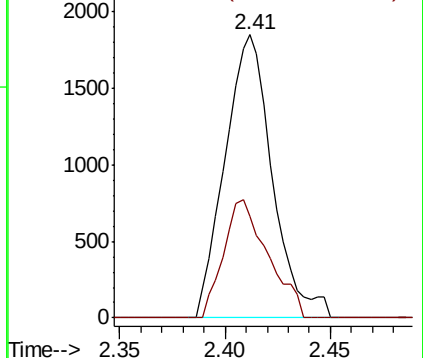
142 100

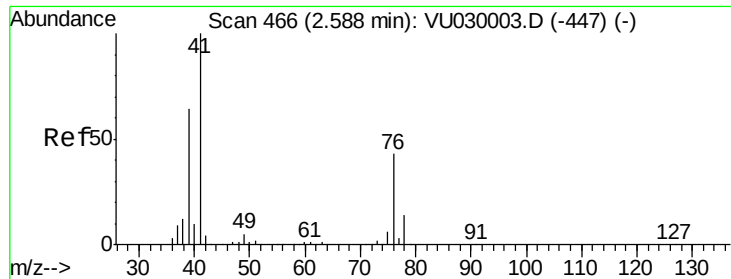
127 39.3 32.2 48.4



Abundance Ion 142.00 (141.70 to 142.70): VU030003.D (-397) (-)

Ion 127.00 (126.70 to 127.70): VU030003.D (-397) (-)

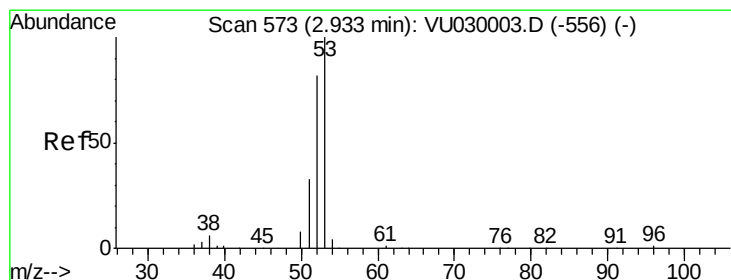
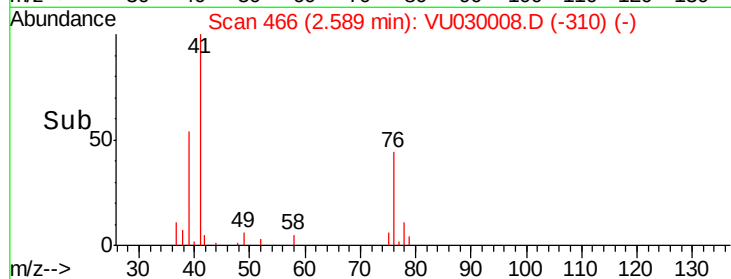
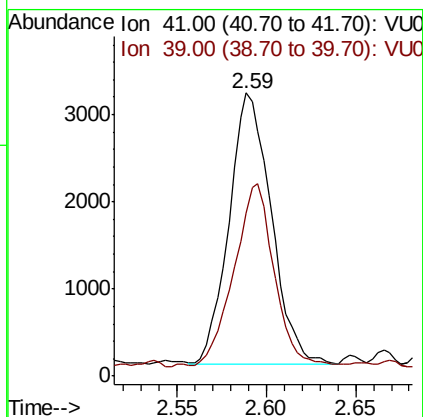
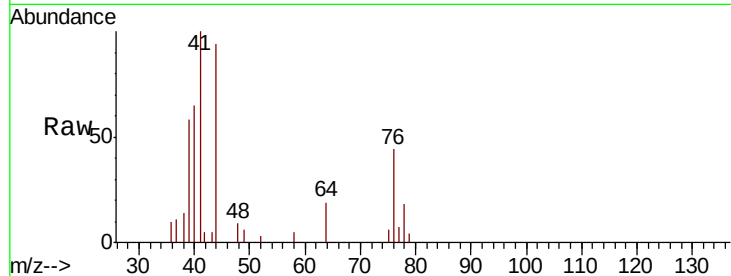




#11
 Allyl Chloride
 Concen: 0.243 ug/l
 RT: 2.59 min Scan# 466
 Delta R.T. 0.00 min
 Lab File: VU030008.D
 Acq: 12 Mar 2019 15:52

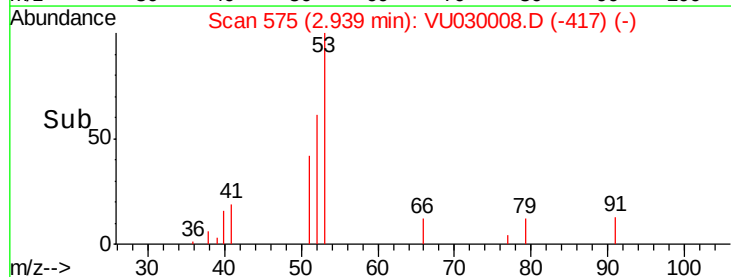
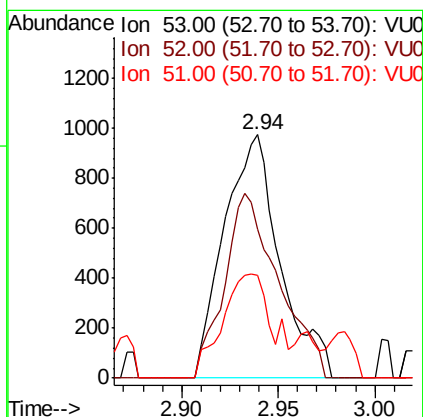
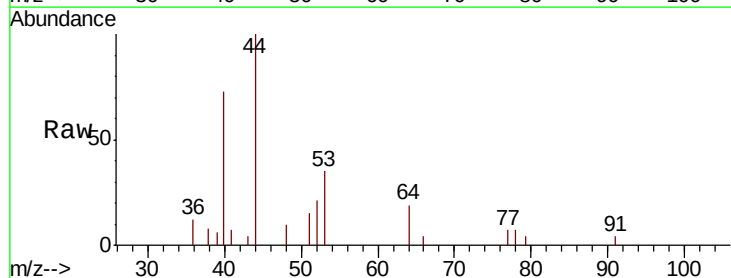
Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT1-2019

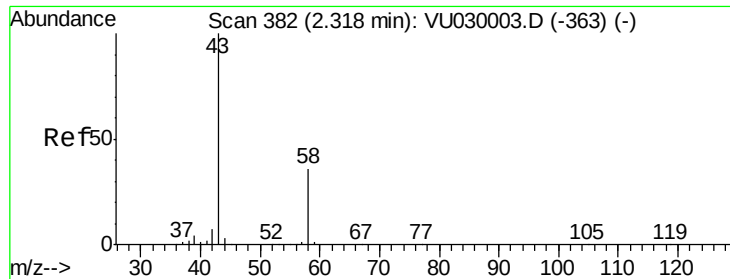
Tgt Ion: 41 Resp: 5067
 Ion Ratio Lower Upper
 41 100
 39 64.0 50.8 76.2



#12
 Acrylonitrile
 Concen: 0.614 ug/l
 RT: 2.94 min Scan# 575
 Delta R.T. 0.01 min
 Lab File: VU030008.D
 Acq: 12 Mar 2019 15:52

Tgt Ion: 53 Resp: 1960
 Ion Ratio Lower Upper
 53 100
 52 73.5 66.3 99.5
 51 38.9 26.9 40.3





#13

Acetone

Concen: 1.790 ug/l

RT: 2.32 min Scan# 383

Delta R.T. 0.00 min

Lab File: VU030008.D

Acq: 12 Mar 2019 15:52

Instrument :

MSVOA_U

ClientSampleId :

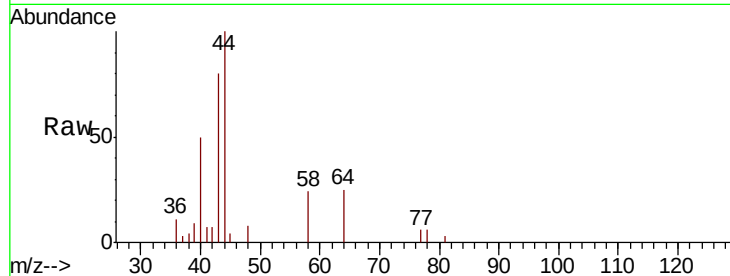
LOD-MDL-WATER-01-QT1-2019

Tgt Ion: 43 Resp: 4972

Ion Ratio Lower Upper

43 100

58 30.2 28.6 43.0



Abundance Ion 43.00 (42.70 to 43.70): VU030003.D (-363) (-)

Ion 58.00 (57.70 to 58.70): VU030003.D (-363) (-)

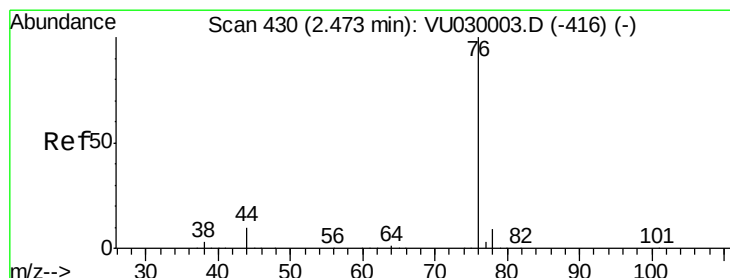
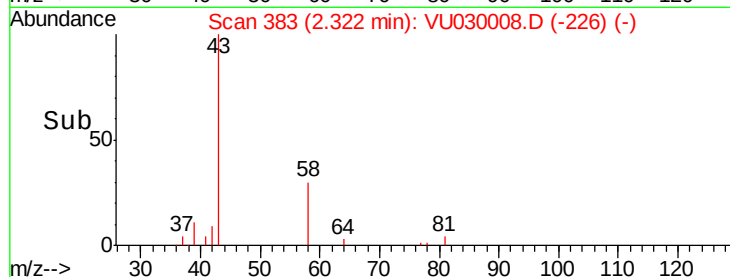
2.32

2.30

2.35

2.40

Time-->



#14

Carbon Disulfide

Concen: 0.251 ug/l

RT: 2.48 min Scan# 431

Delta R.T. 0.00 min

Lab File: VU030008.D

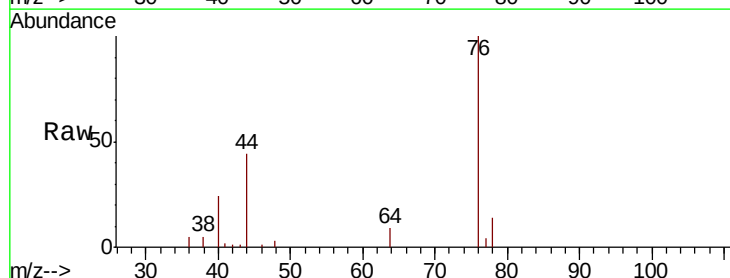
Acq: 12 Mar 2019 15:52

Tgt Ion: 76 Resp: 12897

Ion Ratio Lower Upper

76 100

78 11.6 7.4 11.2#



Abundance Ion 76.00 (75.70 to 76.70): VU030003.D (-416) (-)

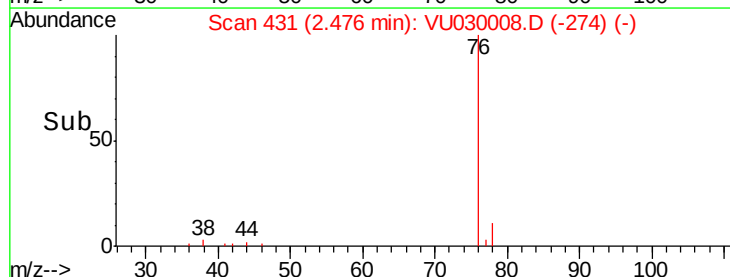
Ion 78.00 (77.70 to 78.70): VU030003.D (-416) (-)

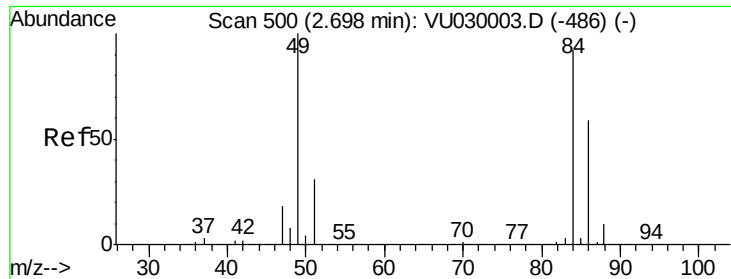
2.48

2.45

2.50

Time-->

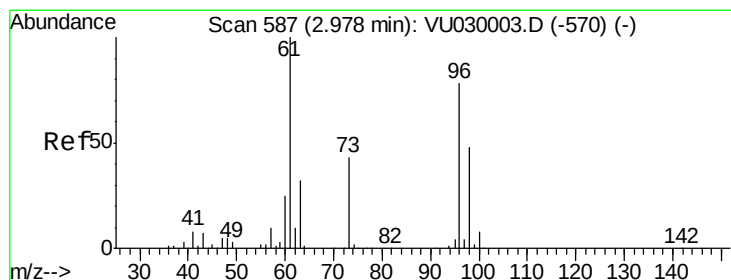
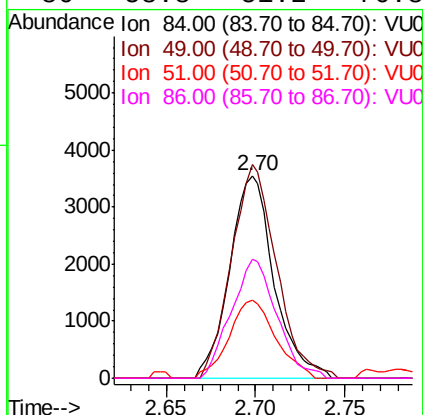
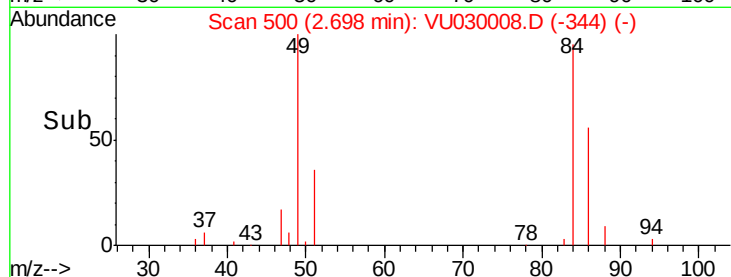
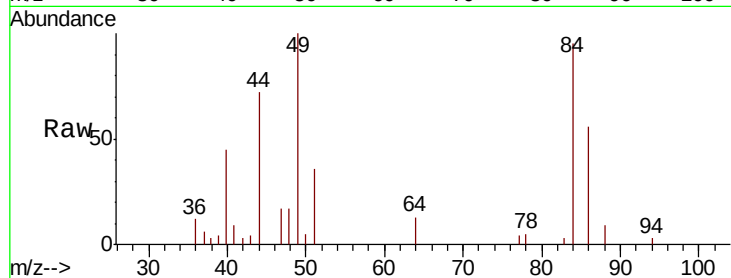




#15
Methylene Chloride
Concen: 0.351 ug/l
RT: 2.70 min Scan# 500
Delta R.T. 0.00 min
Lab File: VU030008.D
Acq: 12 Mar 2019 15:52

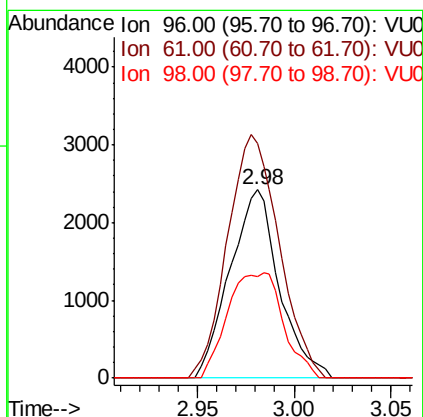
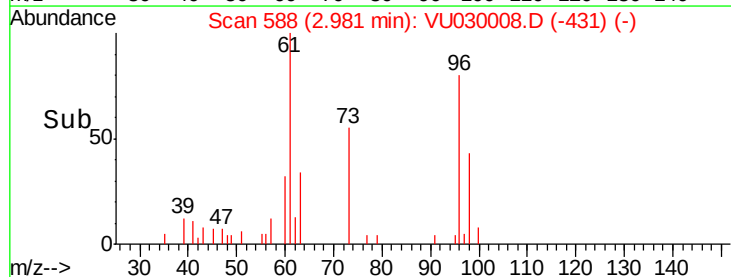
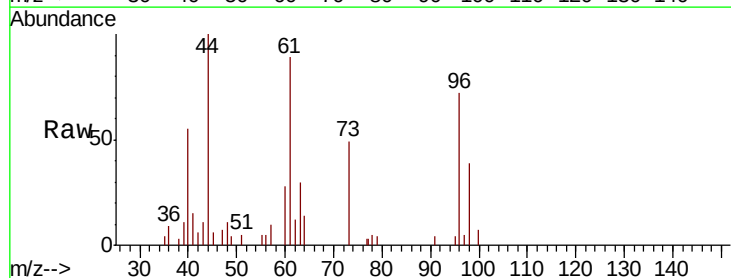
Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT1-2019

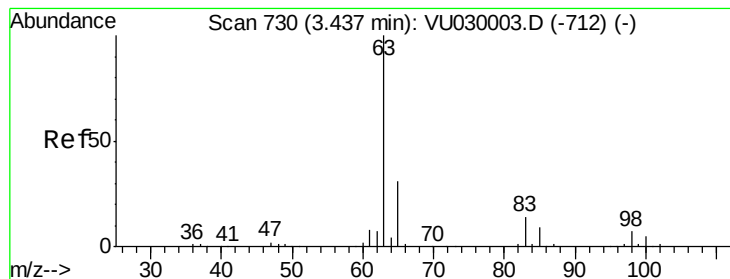
Tgt Ion:	84	Resp:	6158
Ion	Ratio	Lower	Upper
84	100		
49	105.6	86.5	129.7
51	38.3	0.0	66.8
86	58.8	51.2	76.8



#16
trans-1,2-Dichloroethene
Concen: 0.253 ug/l
RT: 2.98 min Scan# 588
Delta R.T. 0.00 min
Lab File: VU030008.D
Acq: 12 Mar 2019 15:52

Tgt Ion:	96	Resp:	4301
Ion	Ratio	Lower	Upper
96	100		
61	124.4	103.0	154.6
98	54.1	49.5	74.3





#17

1,1-Dichloroethane

Concen: 0.257 ug/l

RT: 3.44 min Scan# 732

Delta R.T. 0.01 min

Lab File: VU030008.D

Acq: 12 Mar 2019 15:52

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

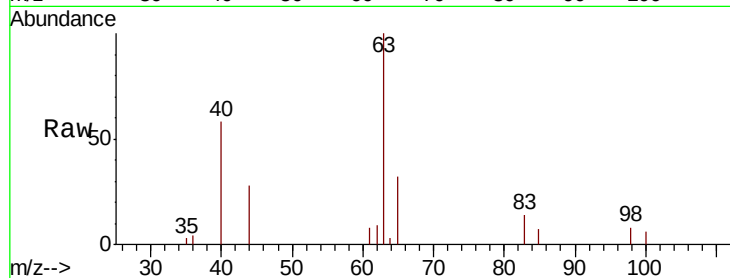
Tgt Ion: 63 Resp: 7400

Ion Ratio Lower Upper

63 100

98 8.1 3.4 10.2

100 5.8 2.3 6.8

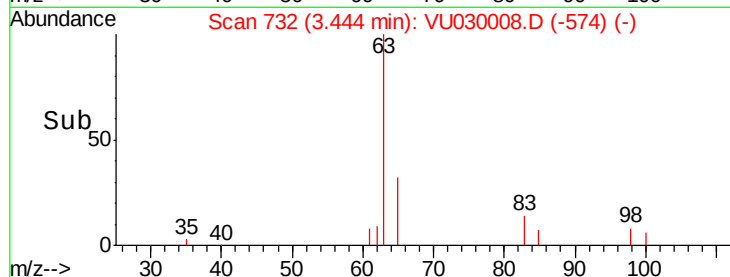


Abundance Ion 63.00 (62.70 to 63.70): VU030003.D (-712) (-)

Ion 98.00 (97.70 to 98.70): VU030003.D (-712) (-)

Ion 100.00 (99.70 to 100.70): VU030003.D (-712) (-)

Time-->

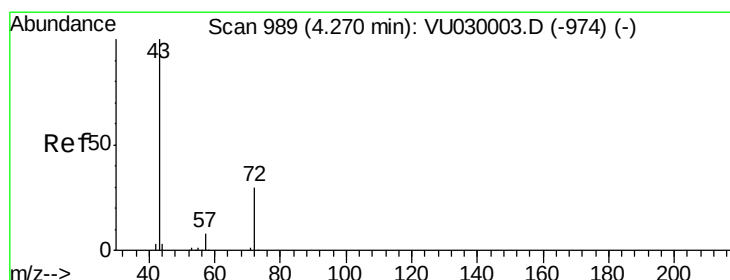


Abundance Ion 63.00 (62.70 to 63.70): VU030008.D (-574) (-)

Ion 98.00 (97.70 to 98.70): VU030008.D (-574) (-)

Ion 100.00 (99.70 to 100.70): VU030008.D (-574) (-)

Time-->



#18

2-Butanone

Concen: 1.052 ug/l

RT: 4.29 min Scan# 996

Delta R.T. 0.02 min

Lab File: VU030008.D

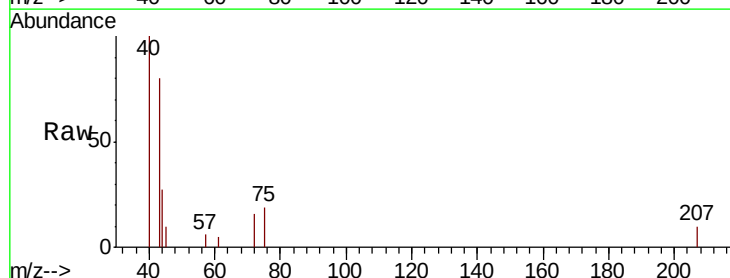
Acq: 12 Mar 2019 15:52

Tgt Ion: 43 Resp: 4045

Ion Ratio Lower Upper

43 100

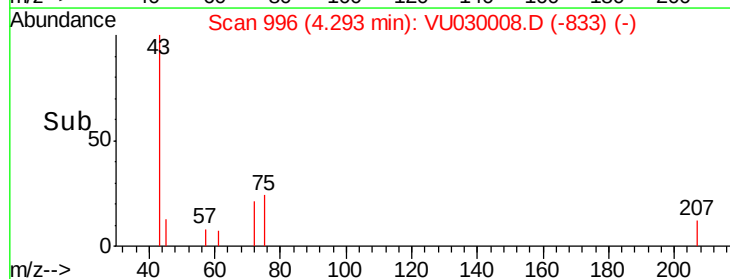
57 8.1 0.0 16.8



Abundance Ion 43.00 (42.70 to 43.70): VU030003.D (-974) (-)

Ion 57.00 (56.70 to 57.70): VU030003.D (-974) (-)

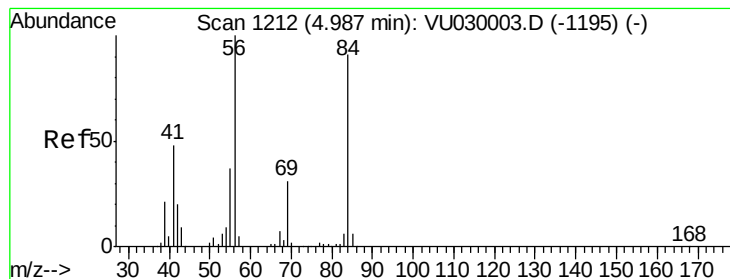
Time-->



Abundance Ion 43.00 (42.70 to 43.70): VU030008.D (-833) (-)

Ion 57.00 (56.70 to 57.70): VU030008.D (-833) (-)

Time-->



#19

Cyclohexane

Concen: 0.214 ug/l

RT: 4.99 min Scan# 1213

Delta R.T. 0.00 min

Lab File: VU030008.D

Acq: 12 Mar 2019 15:52

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

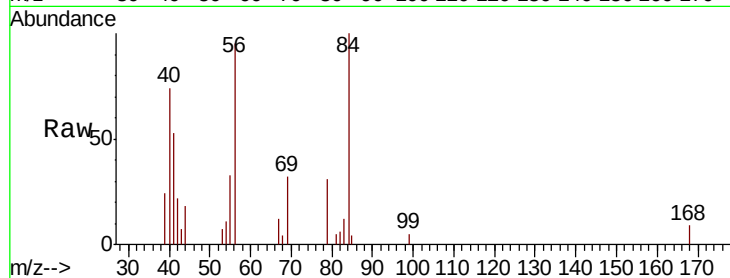
Tgt Ion: 56 Resp: 5264

Ion Ratio Lower Upper

56 100

69 33.4 25.7 38.5

84 110.1 72.9 109.3#

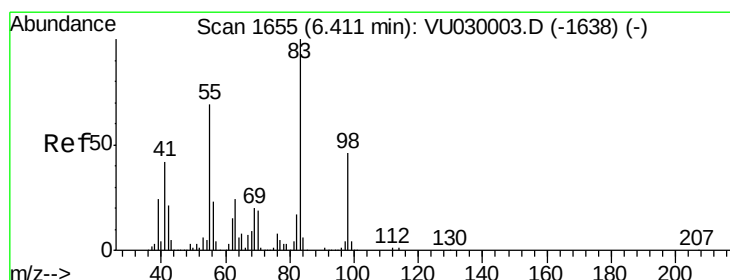
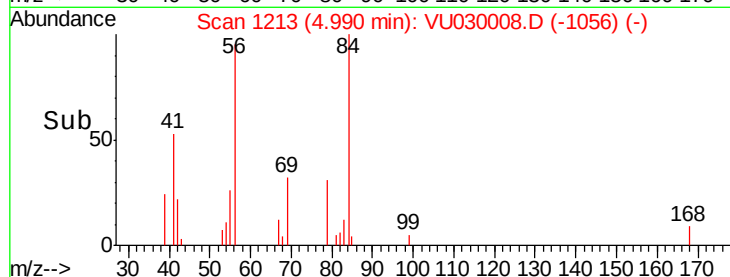
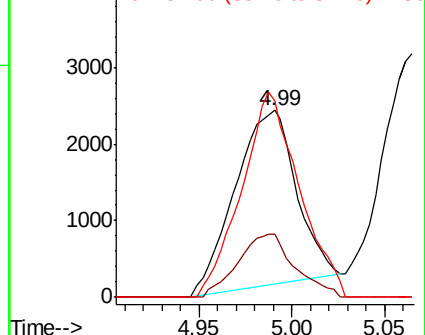


Abundance

Ion 56.00 (55.70 to 56.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 84.00 (83.70 to 84.70): VU0



#20

Methylcyclohexane

Concen: 0.240 ug/l

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU030008.D

Acq: 12 Mar 2019 15:52

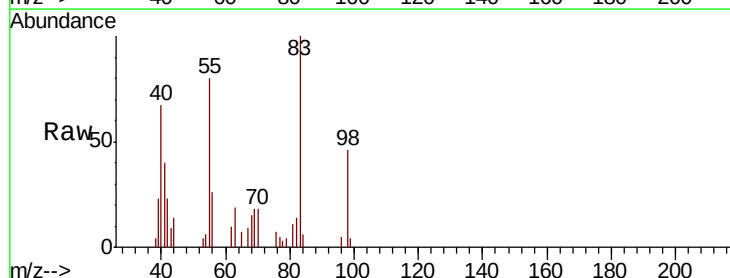
Tgt Ion: 83 Resp: 6527

Ion Ratio Lower Upper

83 100

55 73.0 55.6 83.4

98 44.1 37.4 56.0

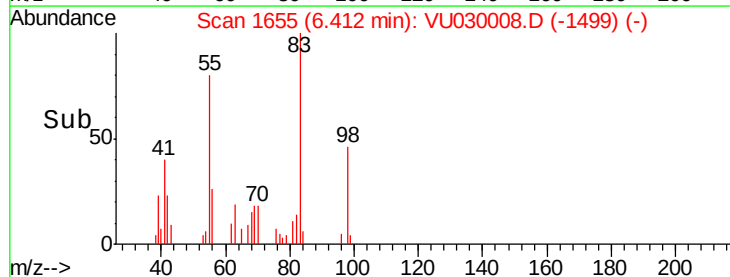
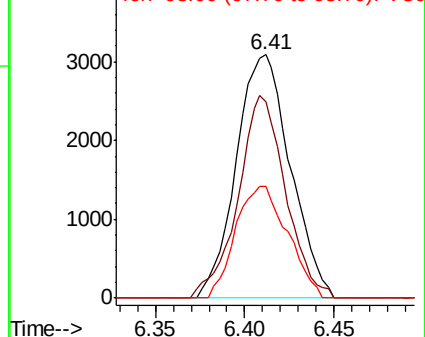


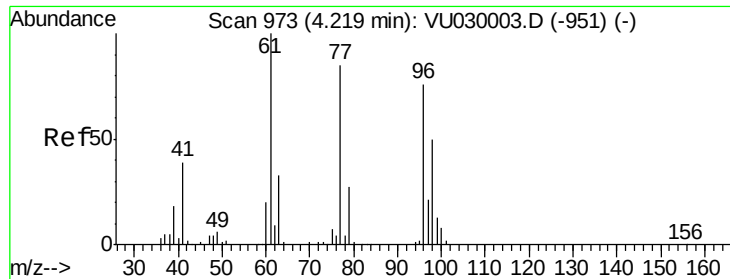
Abundance

Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#21

2,2-Dichloropropane

Concen: 0.266 ug/l

RT: 4.22 min Scan# 974

Delta R.T. 0.00 min

Lab File: VU030008.D

Acq: 12 Mar 2019 15:52

Instrument :

MSVOA_U

ClientSampleId :

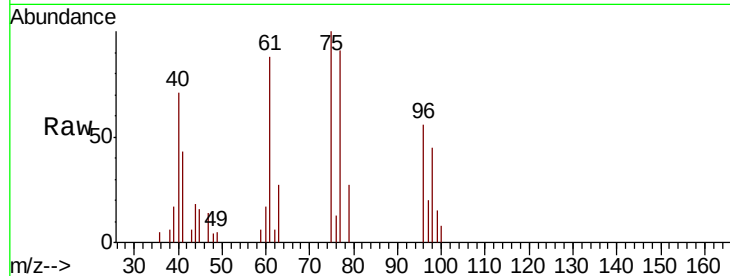
LOD-MDL-WATER-01-QT1-2019

Tgt Ion: 77 Resp: 6438

Ion Ratio Lower Upper

77 100

97 23.1 20.2 30.4



Abundance Ion 77.00 (76.70 to 77.70): VU030003.D (-951) (-)

Ion 97.00 (96.70 to 97.70): VU030003.D (-951) (-)

2500

2000

1500

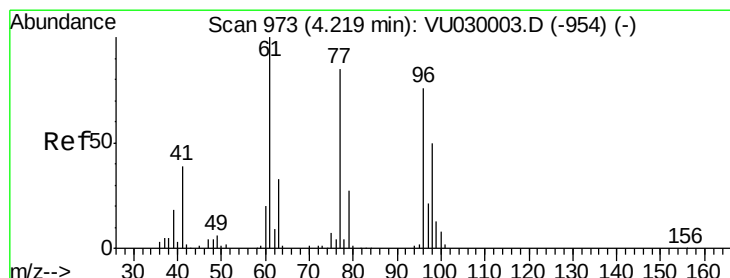
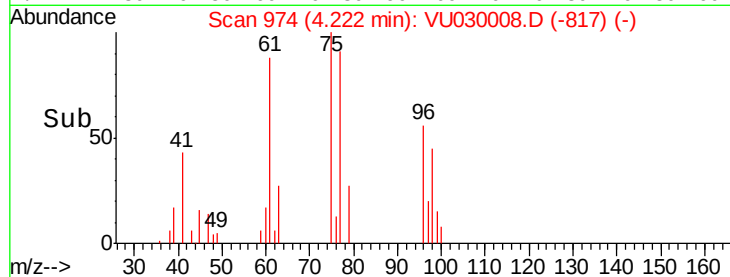
1000

500

0

4.15 4.20 4.25 4.30

Time-->



#22

cis-1,2-Dichloroethene

Concen: 0.240 ug/l

RT: 4.23 min Scan# 976

Delta R.T. 0.01 min

Lab File: VU030008.D

Acq: 12 Mar 2019 15:52

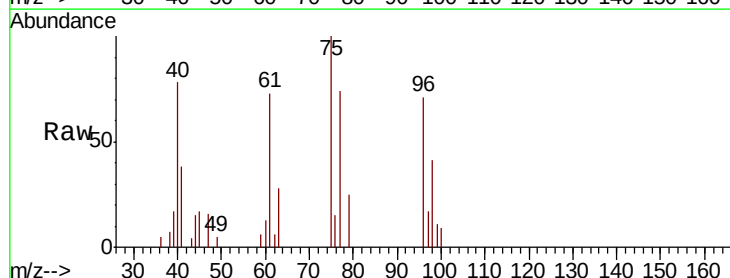
Tgt Ion: 96 Resp: 4549

Ion Ratio Lower Upper

96 100

61 137.3 0.0 335.8

98 61.8 32.6 97.7



Abundance Ion 96.00 (95.70 to 96.70): VU030003.D (-954) (-)

Ion 61.00 (60.70 to 61.70): VU030003.D (-954) (-)

Ion 98.00 (97.70 to 98.70): VU030003.D (-954) (-)

3000

2500

2000

1500

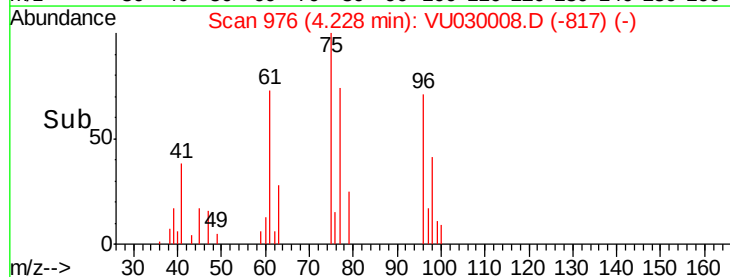
1000

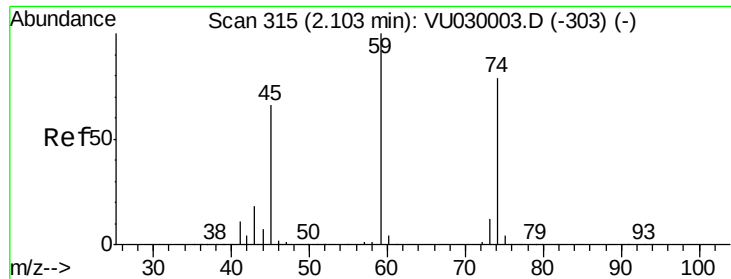
500

0

4.15 4.20 4.25 4.30

Time-->





#23

Diethyl Ether

Concen: 0.265 ug/l

RT: 2.10 min Scan# 315

Delta R.T. 0.00 min

Lab File: VU030008.D

Acq: 12 Mar 2019 15:52

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

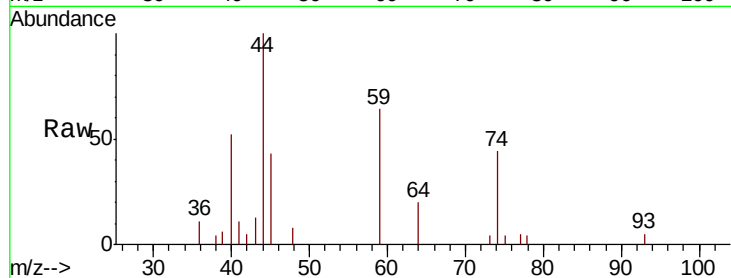
Tgt Ion: 59 Resp: 2913

Ion Ratio Lower Upper

59 100

45 86.3 52.3 78.5#

74 71.5 61.1 91.7

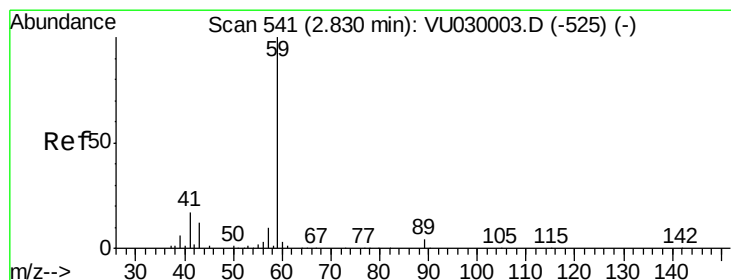
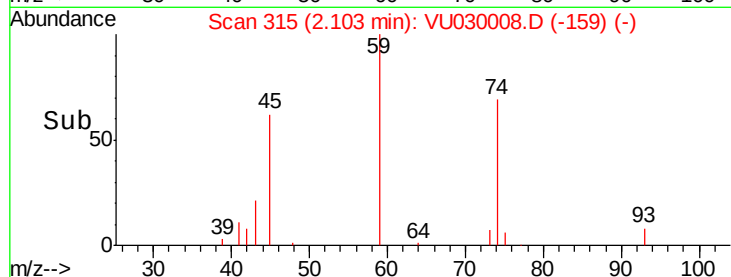


Abundance Ion 59.00 (58.70 to 59.70): VU030008.D (-159) (-)

Ion 45.00 (44.70 to 45.70): VU030008.D (-159) (-)

Ion 74.00 (73.70 to 74.70): VU030008.D (-159) (-)

Time-->



#24

tert-Butyl Alcohol

Concen: 3.442 ug/l

RT: 2.83 min Scan# 541

Delta R.T. 0.00 min

Lab File: VU030008.D

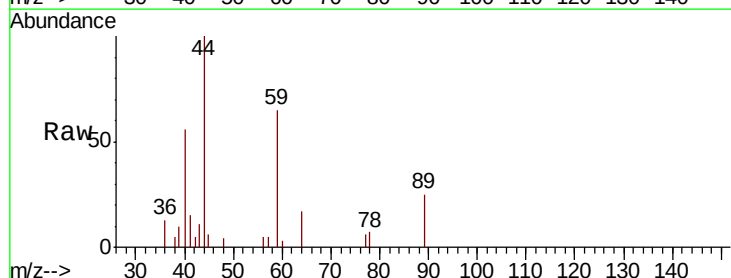
Acq: 12 Mar 2019 15:52

Tgt Ion: 59 Resp: 4055

Ion Ratio Lower Upper

59 100

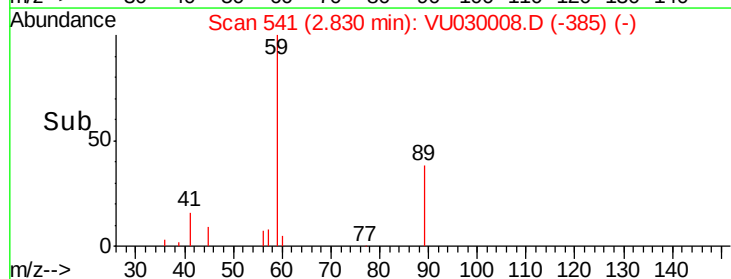
57 4.4 7.7 11.5#

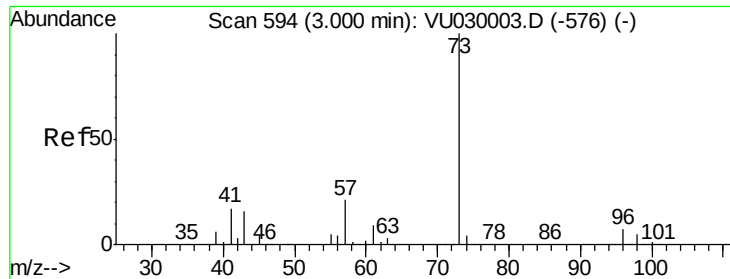


Abundance Ion 59.00 (58.70 to 59.70): VU030008.D (-385) (-)

Ion 57.00 (56.70 to 57.70): VU030008.D (-385) (-)

Time-->





#25

Methyl tert-Butyl Ether

Concen: 0.247 ug/l

RT: 3.00 min Scan# 595

Delta R.T. 0.00 min

Lab File: VU030008.D

Acq: 12 Mar 2019 15:52

Instrument :

MSVOA_U

ClientSampleId :

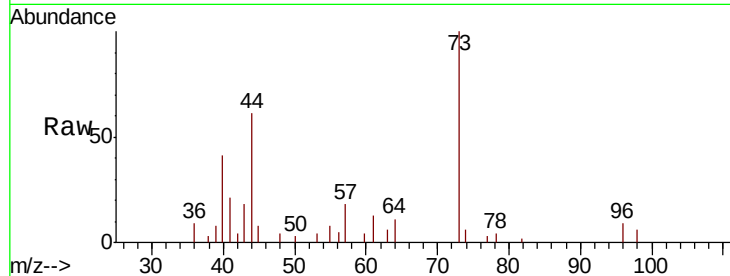
LOD-MDL-WATER-01-QT1-2019

Tgt Ion: 73 Resp: 9203

Ion Ratio Lower Upper

73 100

43 16.7 13.1 19.7



Abundance Ion 73.00 (72.70 to 73.70): VU030003.D (-576) (-)

Ion 43.00 (42.70 to 43.70): VU030003.D (-576) (-)

3.00

4000

3000

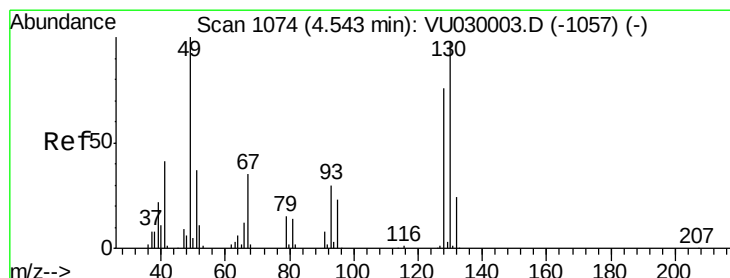
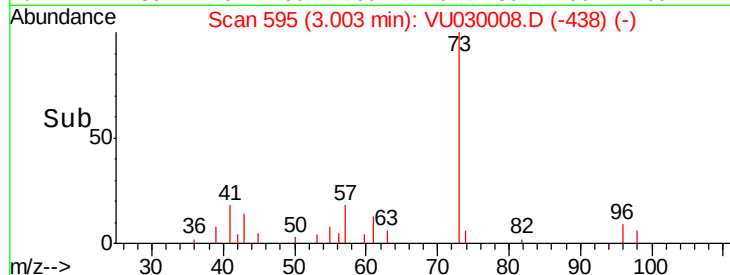
2000

1000

0

2.95 3.00 3.05 3.10

Time-->



#26

Bromochloromethane

Concen: 0.239 ug/l

RT: 4.55 min Scan# 1076

Delta R.T. 0.01 min

Lab File: VU030008.D

Acq: 12 Mar 2019 15:52

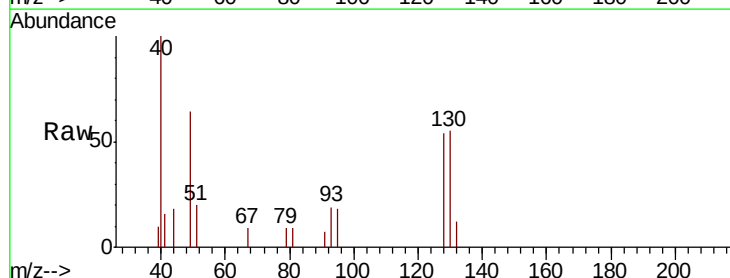
Tgt Ion: 128 Resp: 1980

Ion Ratio Lower Upper

128 100

49 148.9 0.0 270.4

130 123.2 102.6 153.8



Abundance Ion 128.00 (127.70 to 128.70): VU030003.D (-1057) (-)

Ion 49.00 (48.70 to 49.70): VU030003.D (-1057) (-)

Ion 130.00 (129.70 to 130.70): VU030003.D (-1057) (-)

1500

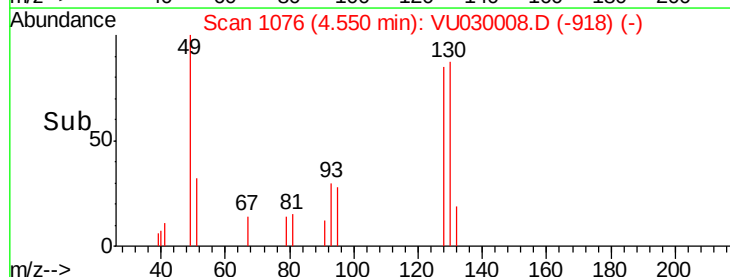
1000

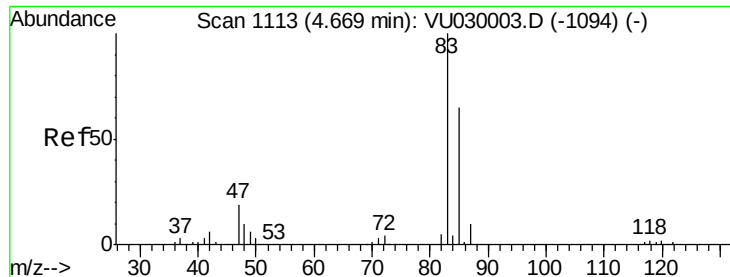
500

0

4.50 4.55 4.60

Time-->





#27

Chloroform

Concen: 0.236 ug/l

RT: 4.68 min Scan# 1115

Delta R.T. 0.01 min

Lab File: VU030008.D

Acq: 12 Mar 2019 15:52

Instrument :

MSVOA_U

ClientSampleId :

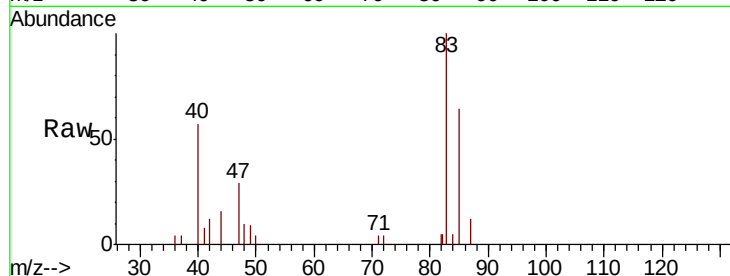
LOD-MDL-WATER-01-QT1-2019

Tgt Ion: 83 Resp: 7145

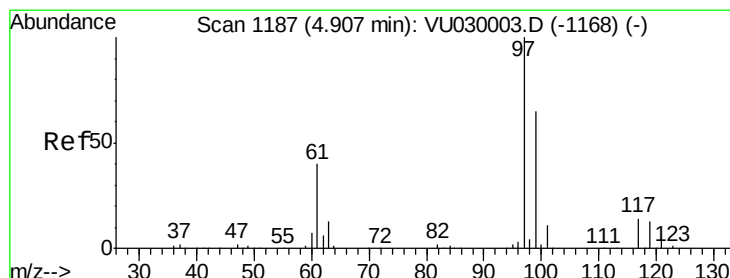
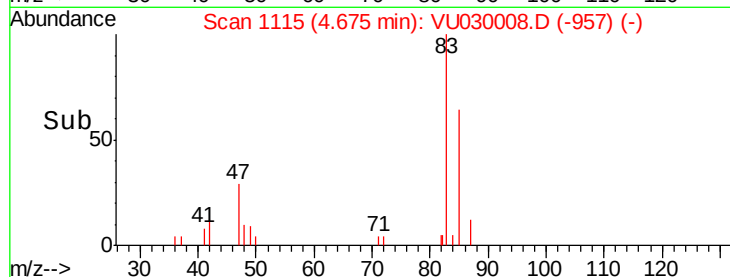
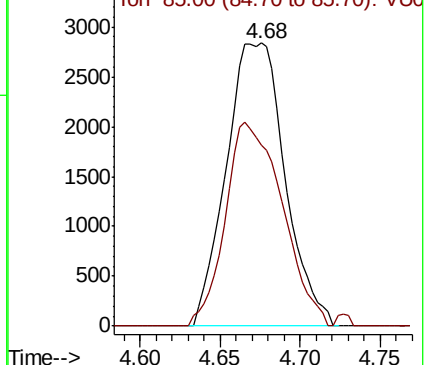
Ion Ratio Lower Upper

83 100

85 63.7 0.0 129.0



Abundance Ion 83.00 (82.70 to 83.70): VU030008.D (-957) (-)



#28

1,1,1-Trichloroethane

Concen: 0.253 ug/l

RT: 4.91 min Scan# 1187

Delta R.T. 0.00 min

Lab File: VU030008.D

Acq: 12 Mar 2019 15:52

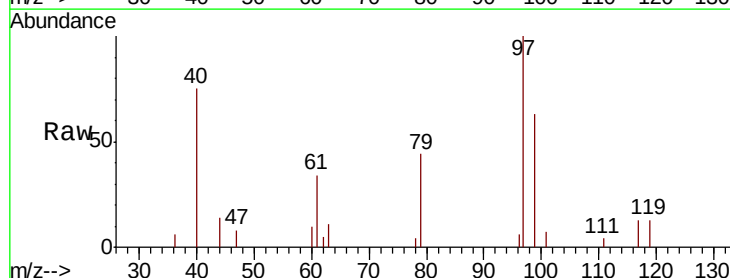
Tgt Ion: 97 Resp: 6302

Ion Ratio Lower Upper

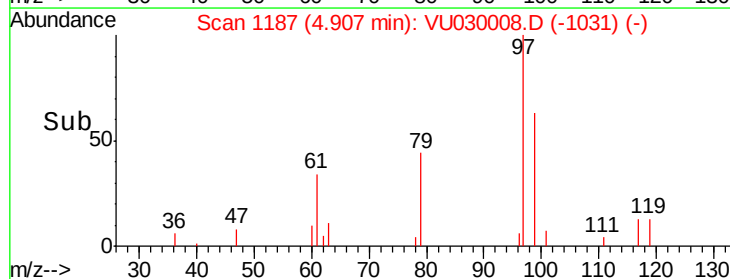
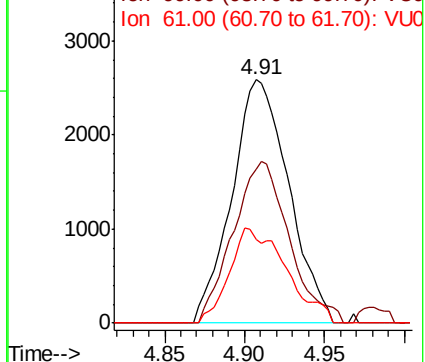
97 100

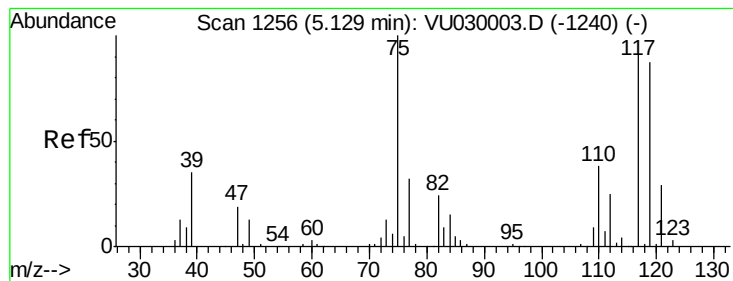
99 65.6 32.4 97.0

61 38.9 20.4 61.2



Abundance Ion 97.00 (96.70 to 97.70): VU030008.D (-1031) (-)





#29

1,1-Dichloropropene

Concen: 0.243 ug/l

RT: 5.13 min Scan# 1256

Delta R.T. 0.00 min

Lab File: VU030008.D

Acq: 12 Mar 2019 15:52

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

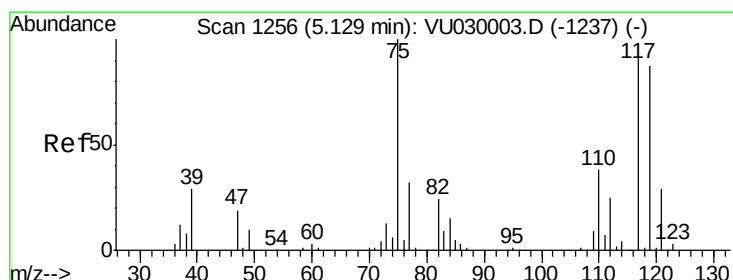
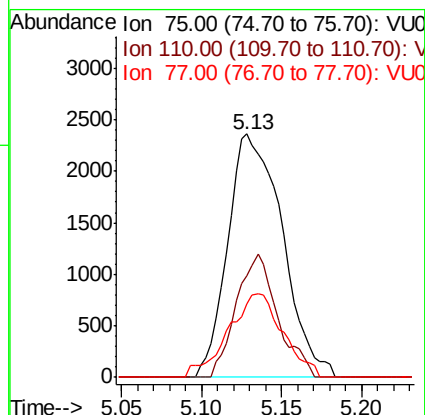
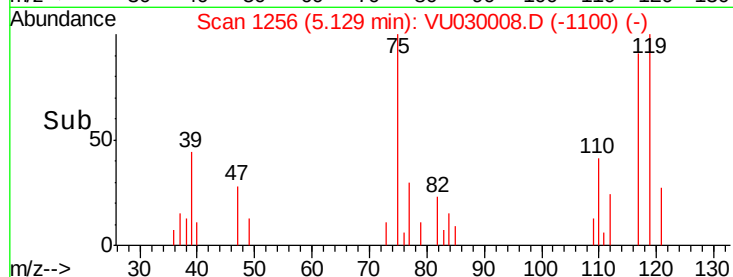
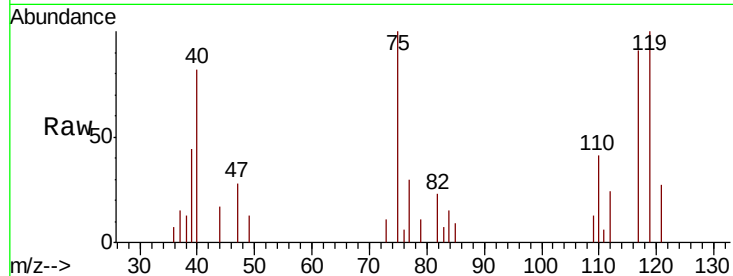
Tgt Ion: 75 Resp: 5517

Ion Ratio Lower Upper

75 100

110 38.2 19.1 57.3

77 34.3 25.2 37.8



#30

Carbon Tetrachloride

Concen: 0.229 ug/l

RT: 5.13 min Scan# 1257

Delta R.T. 0.00 min

Lab File: VU030008.D

Acq: 12 Mar 2019 15:52

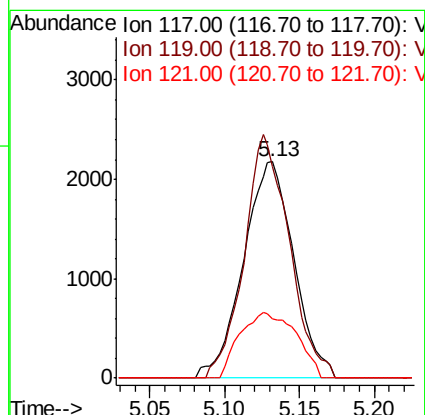
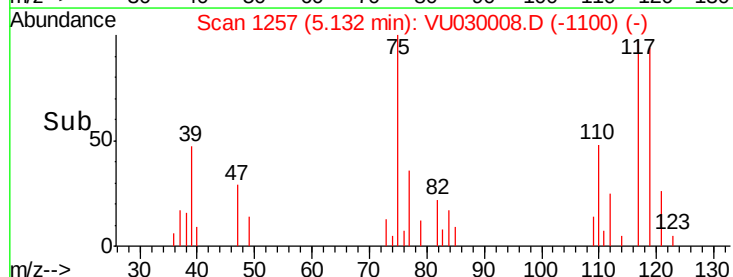
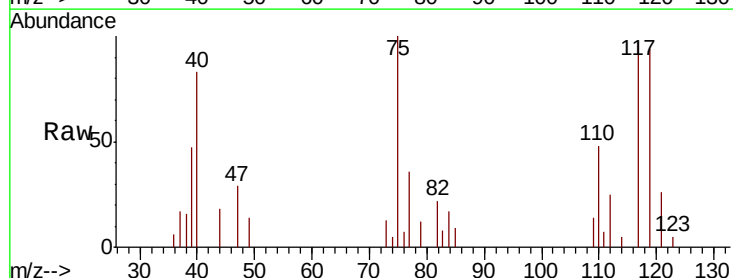
Tgt Ion: 117 Resp: 5090

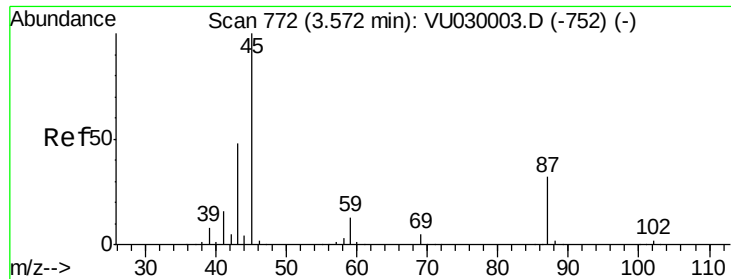
Ion Ratio Lower Upper

117 100

119 97.6 76.3 114.5

121 27.3 25.1 37.7





#31

Isopropyl Ether

Concen: 0.260 ug/l

RT: 3.57 min Scan# 772

Delta R.T. 0.00 min

Lab File: VU030008.D

Acq: 12 Mar 2019 15:52

Instrument :

MSVOA_U

ClientSampleId :

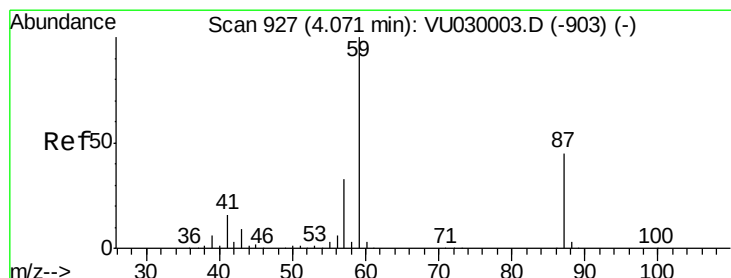
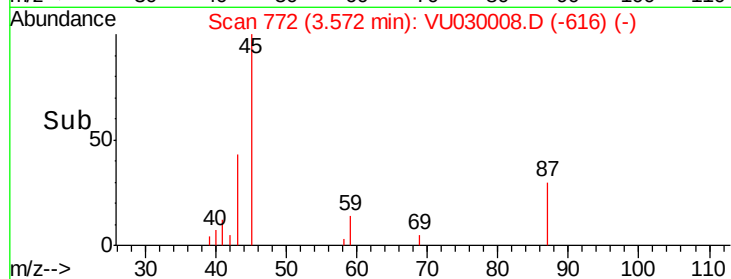
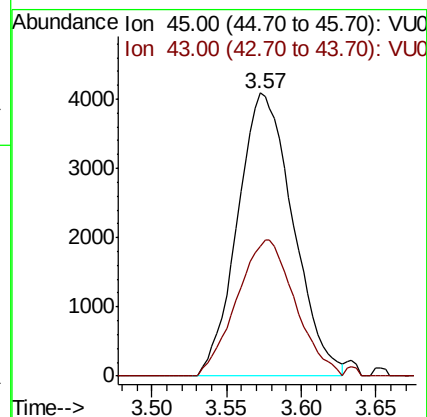
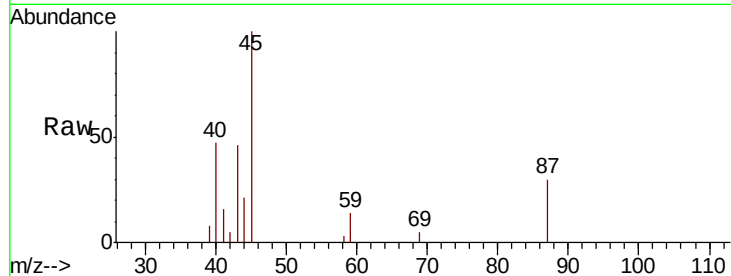
LOD-MDL-WATER-01-QT1-2019

Tgt Ion: 45 Resp: 10542

Ion Ratio Lower Upper

45 100

43 50.5 24.5 73.5



#32

Ethyl-t-butyl ether

Concen: 0.246 ug/l

RT: 4.08 min Scan# 929

Delta R.T. 0.01 min

Lab File: VU030008.D

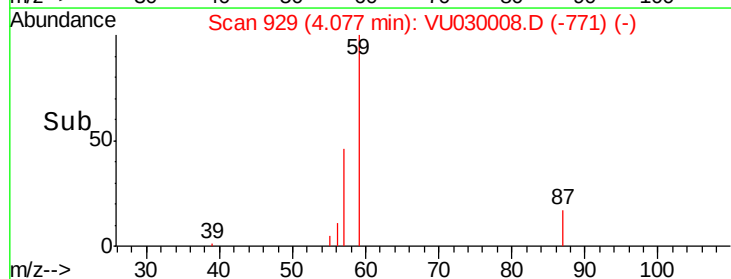
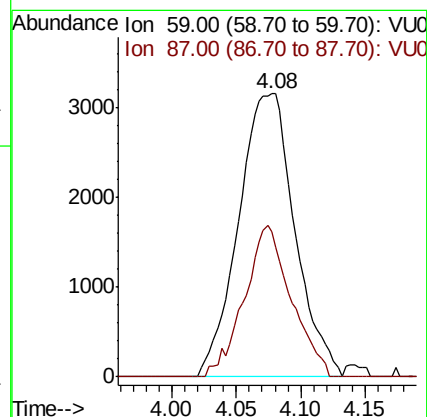
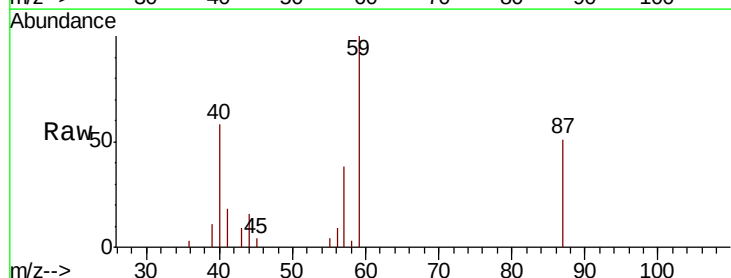
Acq: 12 Mar 2019 15:52

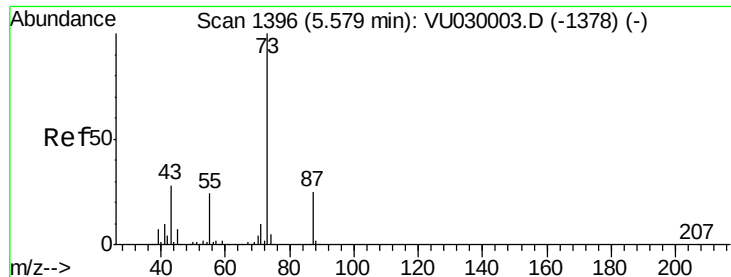
Tgt Ion: 59 Resp: 9612

Ion Ratio Lower Upper

59 100

87 44.4 36.2 54.4

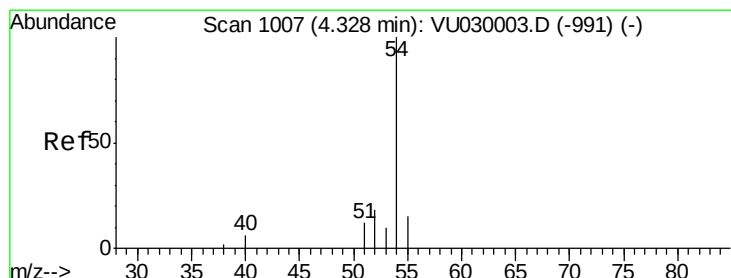
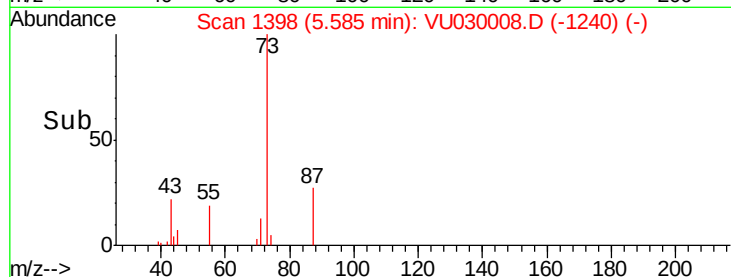
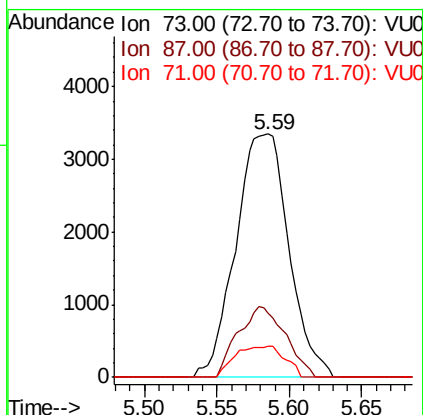
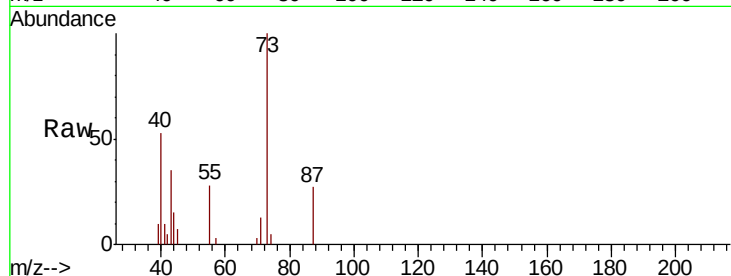




#33
Tert-Amyl methyl ether
Concen: 0.239 ug/l
RT: 5.59 min Scan# 1398
Delta R.T. 0.01 min
Lab File: VU030008.D
Acq: 12 Mar 2019 15:52

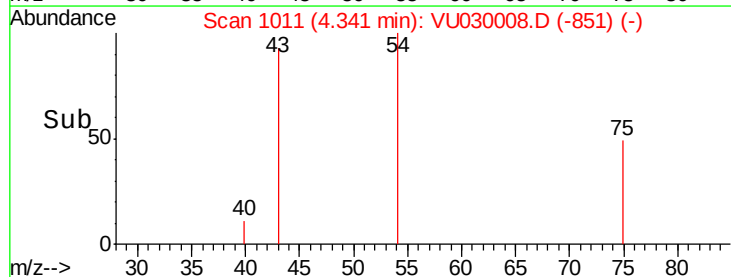
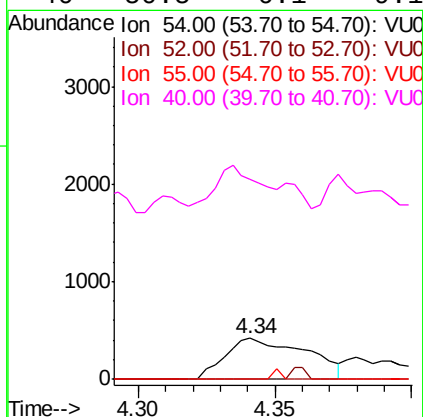
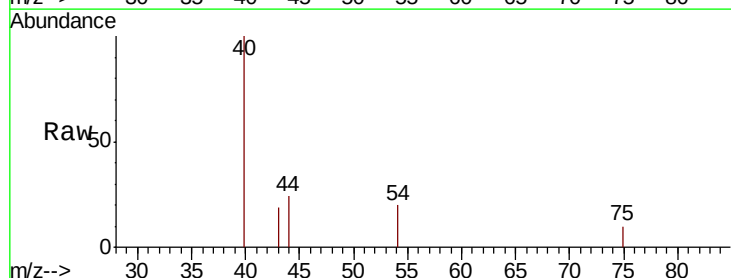
Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT1-2019

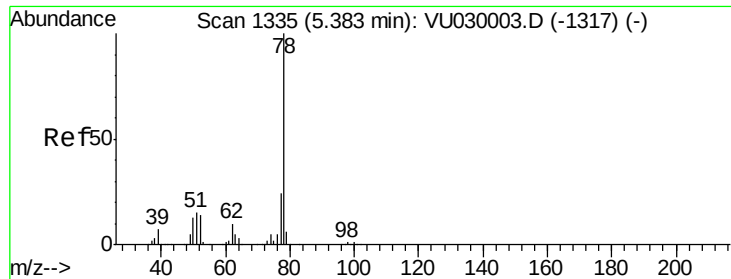
Tgt Ion: 73 Resp: 8518
Ion Ratio Lower Upper
73 100
87 25.8 19.7 29.5
71 12.0 8.6 13.0



#34
Propionitrile
Concen: 0.803 ug/l
RT: 4.34 min Scan# 1011
Delta R.T. 0.01 min
Lab File: VU030008.D
Acq: 12 Mar 2019 15:52

Tgt Ion: 54 Resp: 861
Ion Ratio Lower Upper
54 100
52 0.0 15.8 23.6#
55 0.0 12.5 18.7#
40 50.5 6.1 9.1#





#35

Benzene

Concen: 0.249 ug/l

RT: 5.39 min Scan# 1336

Delta R.T. 0.00 min

Lab File: VU030008.D

Acq: 12 Mar 2019 15:52

Instrument :

MSVOA_U

ClientSampleId :

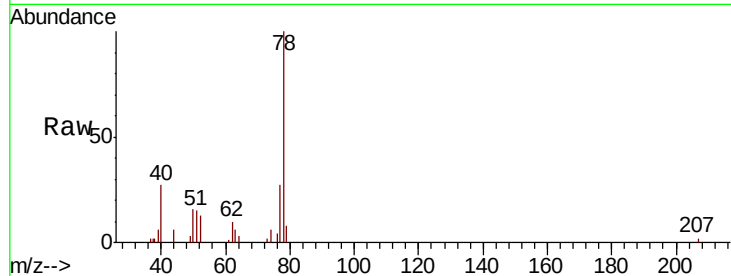
LOD-MDL-WATER-01-QT1-2019

Tgt Ion: 78 Resp: 16489

Ion Ratio Lower Upper

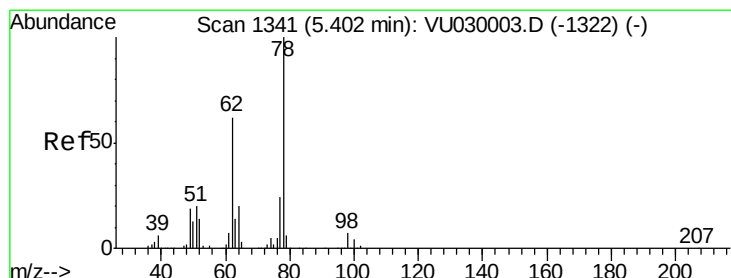
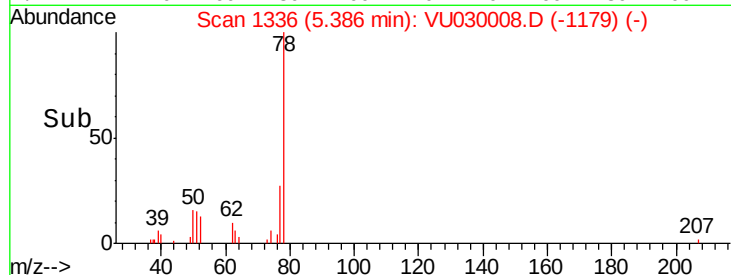
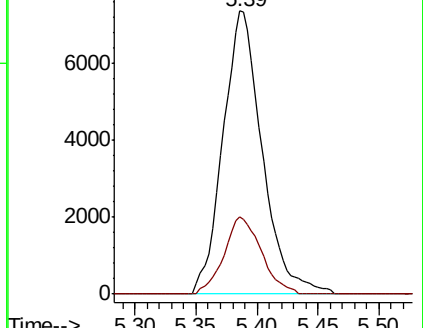
78 100

77 27.1 18.9 28.3



Abundance Ion 78.10 (77.80 to 78.80): VU030003.D (-1317) (-)

Ion 77.00 (76.70 to 77.70): VU030003.D (-1317) (-)



#36

1,2-Dichloroethane

Concen: 0.252 ug/l

RT: 5.41 min Scan# 1344

Delta R.T. 0.01 min

Lab File: VU030008.D

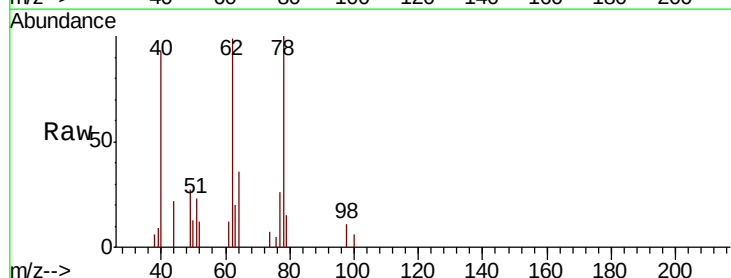
Acq: 12 Mar 2019 15:52

Tgt Ion: 62 Resp: 4463

Ion Ratio Lower Upper

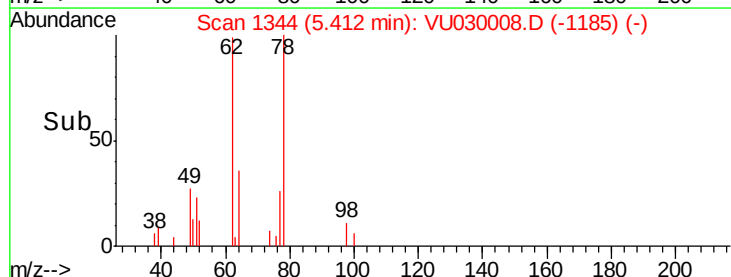
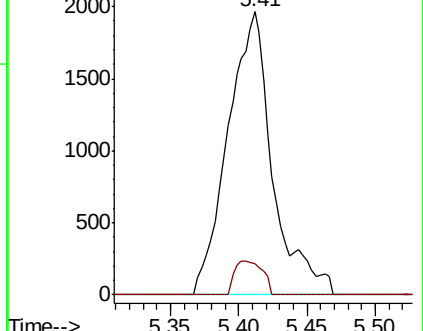
62 100

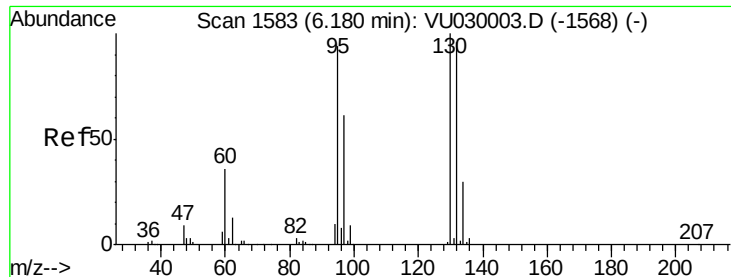
98 7.6 8.4 12.6#



Abundance Ion 62.00 (61.70 to 62.70): VU030003.D (-1322) (-)

Ion 98.00 (97.70 to 98.70): VU030003.D (-1322) (-)





#37

Trichloroethene

Concen: 0.264 ug/l

RT: 6.19 min Scan# 1585

Delta R.T. 0.01 min

Lab File: VU030008.D

Acq: 12 Mar 2019 15:52

Instrument :

MSVOA_U

ClientSampleId :

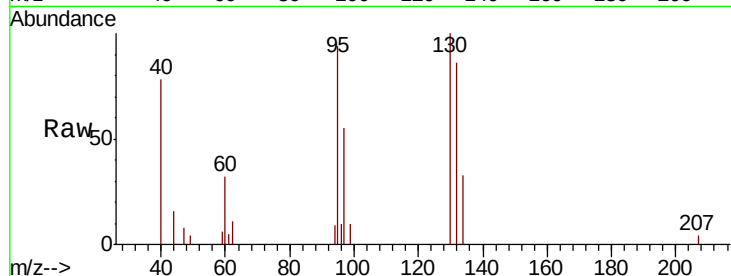
LOD-MDL-WATER-01-QT1-2019

Tgt Ion:130 Resp: 5040

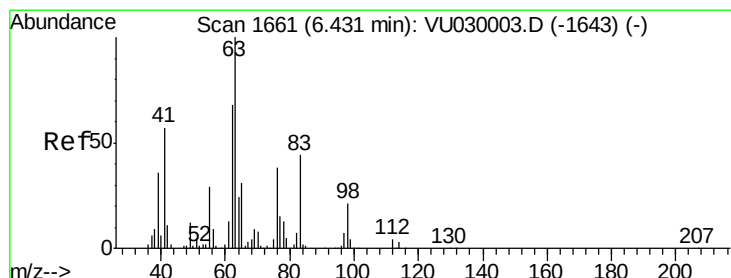
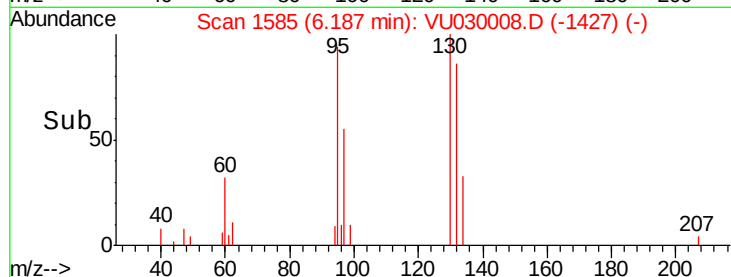
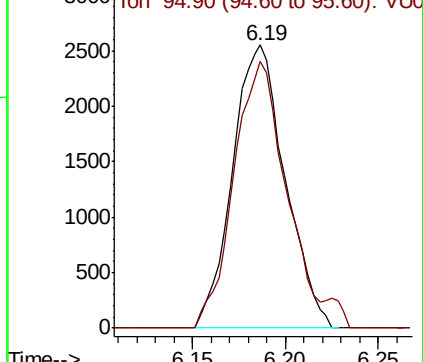
Ion Ratio Lower Upper

130 100

95 94.0 75.2 112.8



Abundance Ion 129.90 (129.60 to 130.60): VU030003.D (-1568) (-)



#38

1,2-Dichloropropane

Concen: 0.261 ug/l

RT: 6.44 min Scan# 1663

Delta R.T. 0.01 min

Lab File: VU030008.D

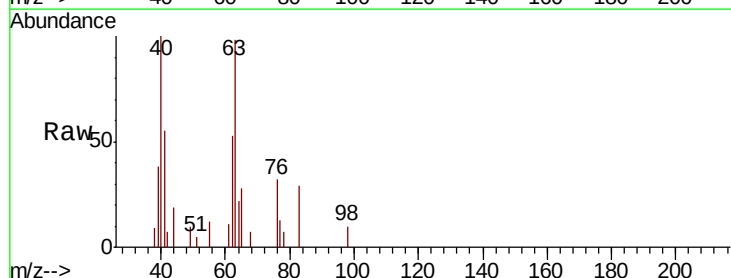
Acq: 12 Mar 2019 15:52

Tgt Ion: 63 Resp: 4399

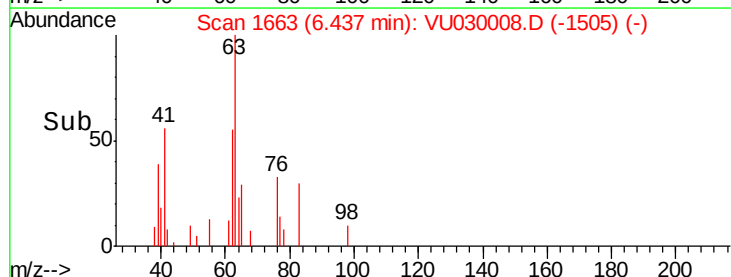
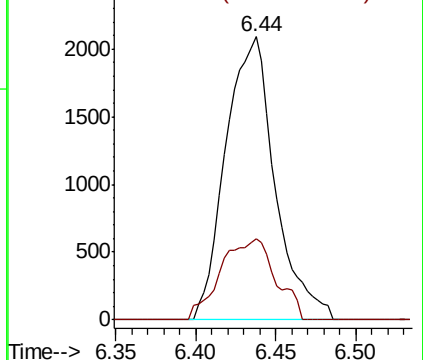
Ion Ratio Lower Upper

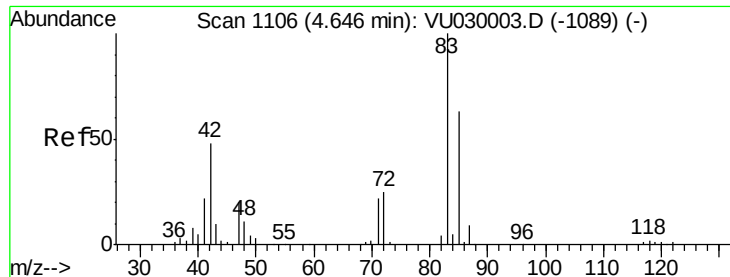
63 100

65 28.7 24.9 37.3



Abundance Ion 63.00 (62.70 to 63.70): VU030003.D (-1643) (-)





#41

Tetrahydrofuran

Concen: 0.206 ug/l

RT: 4.65 min Scan# 1108

Delta R.T. 0.01 min

Lab File: VU030008.D

Acq: 12 Mar 2019 15:52

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

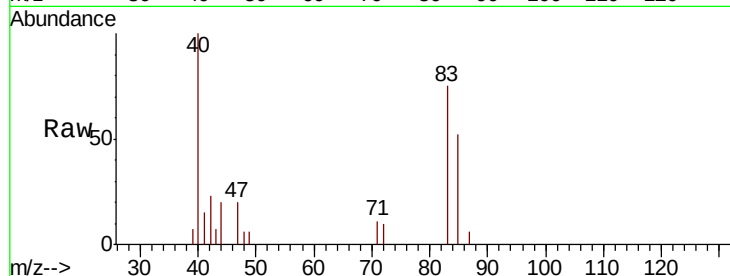
Tgt Ion: 42 Resp: 532

Ion Ratio Lower Upper

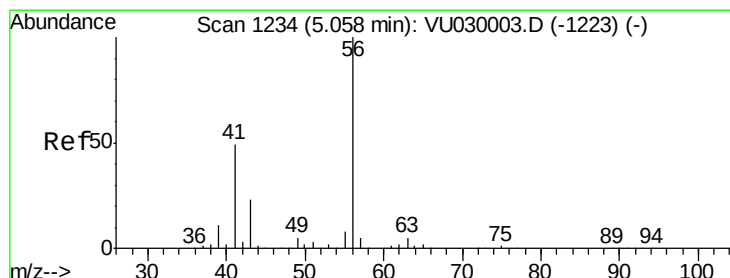
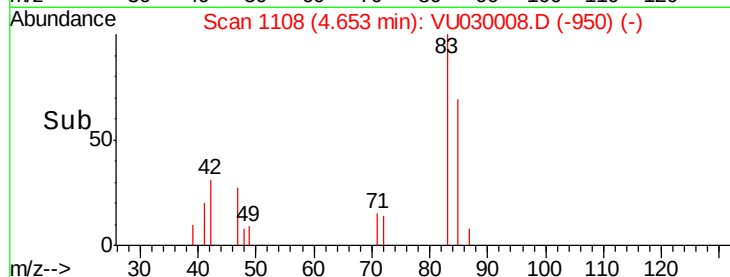
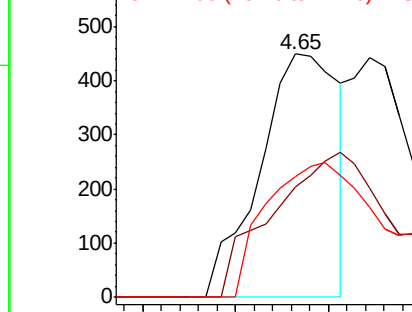
42 100

72 84.2 44.9 67.3#

71 74.4 37.8 56.8#



Abundance Ion 42.00 (41.70 to 42.70): VU0
Ion 72.00 (71.70 to 72.70): VU0
Ion 71.00 (70.70 to 71.70): VU0



#42

1-Chlorobutane

Concen: 0.248 ug/l

RT: 5.06 min Scan# 1236

Delta R.T. 0.01 min

Lab File: VU030008.D

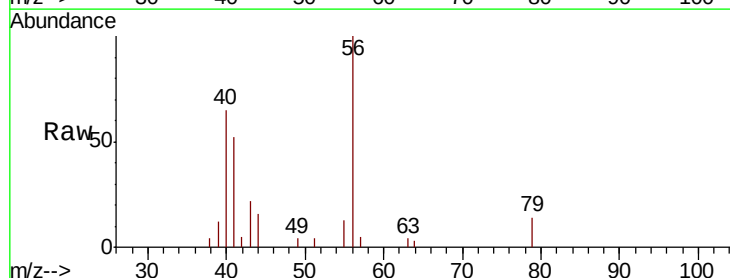
Acq: 12 Mar 2019 15:52

Tgt Ion: 56 Resp: 7368

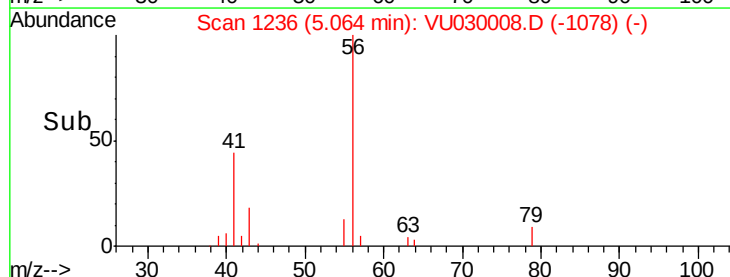
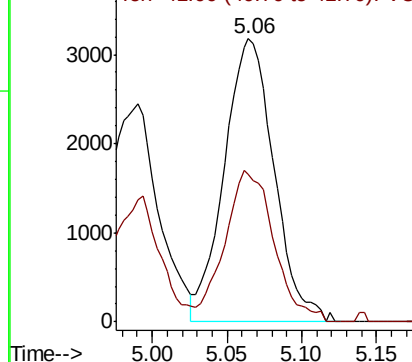
Ion Ratio Lower Upper

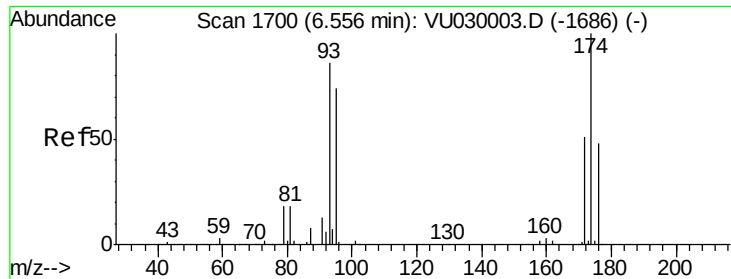
56 100

41 52.8 24.7 74.1



Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 41.00 (40.70 to 41.70): VU0





#43

Dibromomethane

Concen: 0.261 ug/l

RT: 6.56 min Scan# 1702

Delta R.T. 0.01 min

Lab File: VU030008.D

Acq: 12 Mar 2019 15:52

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

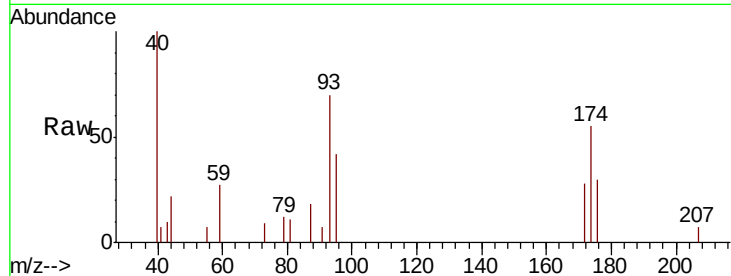
Tgt Ion: 93 Resp: 2275

Ion Ratio Lower Upper

93 100

95 74.9 68.6 102.8

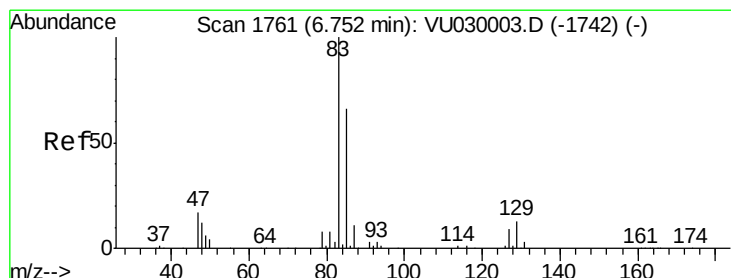
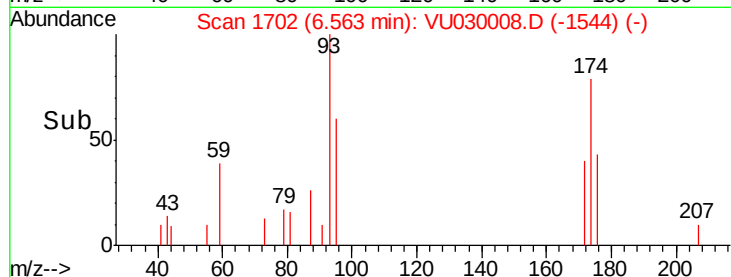
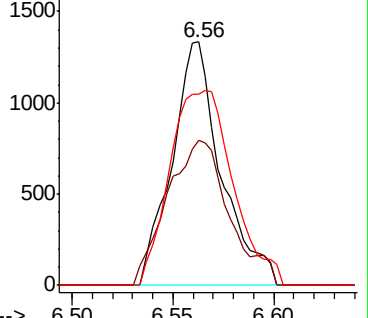
174 103.2 91.8 137.8



Abundance Ion 93.00 (92.70 to 93.70): VU030003.D (-1686) (-)

Ion 95.00 (94.70 to 95.70): VU030003.D (-1686) (-)

Ion 174.00 (173.70 to 174.70): VU030003.D (-1686) (-)



#44

Bromodichloromethane

Concen: 0.230 ug/l

RT: 6.76 min Scan# 1763

Delta R.T. 0.01 min

Lab File: VU030008.D

Acq: 12 Mar 2019 15:52

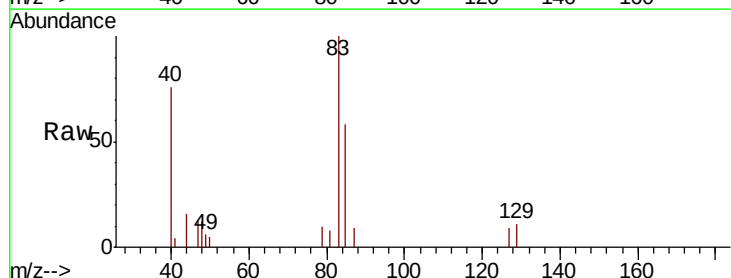
Tgt Ion: 83 Resp: 4788

Ion Ratio Lower Upper

83 100

85 58.4 53.2 79.8

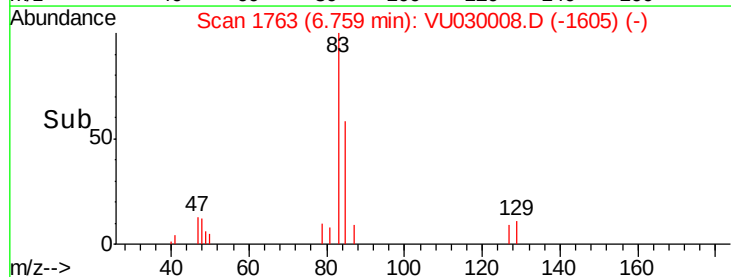
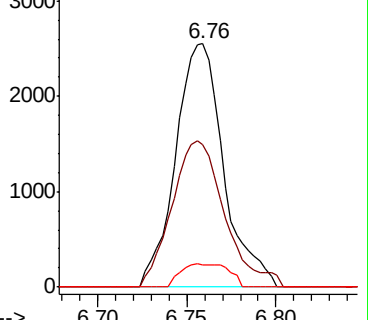
127 9.2 7.4 11.0

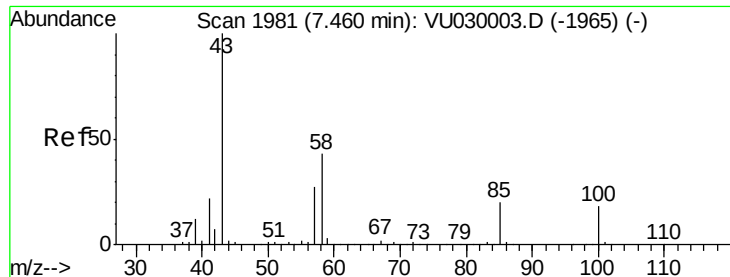


Abundance Ion 83.00 (82.70 to 83.70): VU030003.D (-1742) (-)

Ion 85.00 (84.70 to 85.70): VU030003.D (-1742) (-)

Ion 127.00 (126.70 to 127.70): VU030003.D (-1742) (-)





#45

4-Methyl-2-Pentanone

Concen: 1.208 ug/l

RT: 7.47 min Scan# 1983

Delta R.T. 0.01 min

Lab File: VU030008.D

Acq: 12 Mar 2019 15:52

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

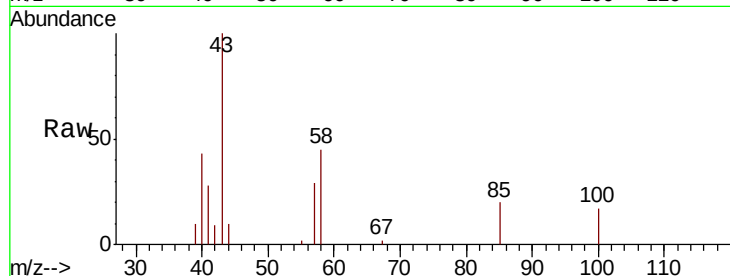
Tgt Ion: 43 Resp: 10410

Ion Ratio Lower Upper

43 100

58 39.9 21.6 64.6

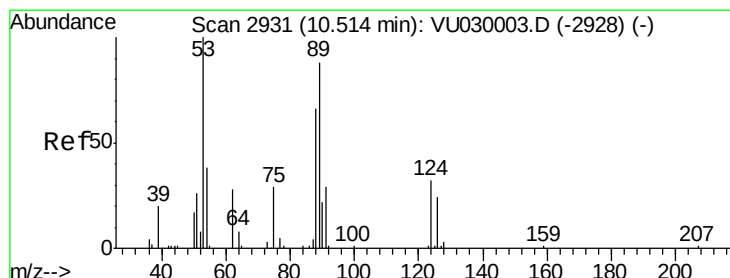
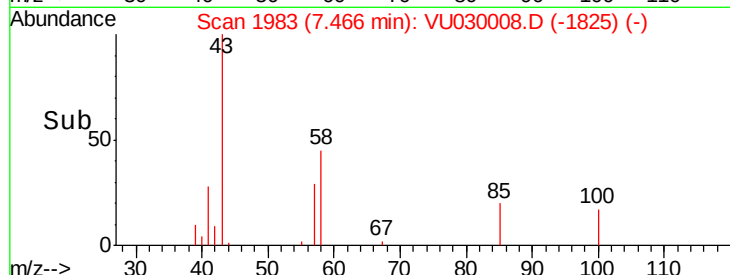
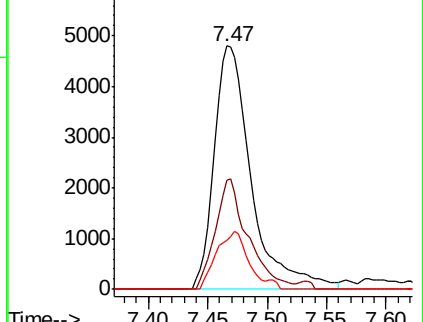
85 20.8 16.3 24.5



Abundance Ion 43.00 (42.70 to 43.70): VU030008.D (-1825) (-)

Ion 58.00 (57.70 to 58.70): VU030008.D (-1825) (-)

Ion 85.00 (84.70 to 85.70): VU030008.D (-1825) (-)



#46

t-1,4-Dichloro-2-butene

Concen: 2.350 ug/l

RT: 10.50 min Scan# 2925

Delta R.T. -0.02 min

Lab File: VU030008.D

Acq: 12 Mar 2019 15:52

Tgt Ion: 75 Resp: 4838

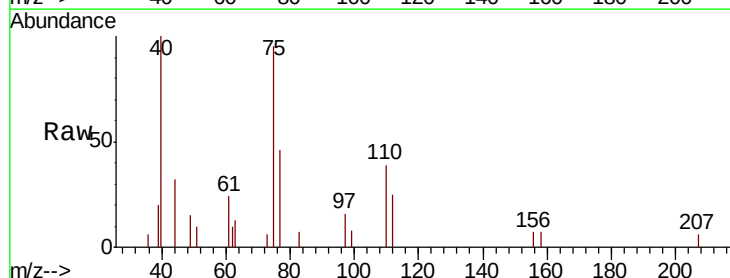
Ion Ratio Lower Upper

75 100

53 19.3 57.0 85.6#

89 13.4 43.6 65.4#

88 10.5 31.5 47.3#

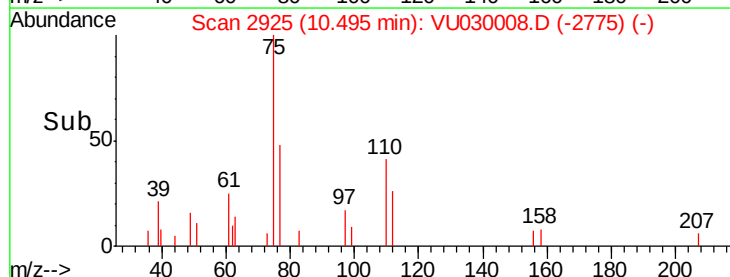
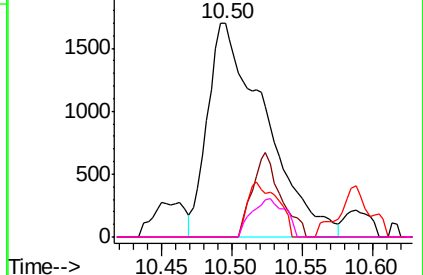


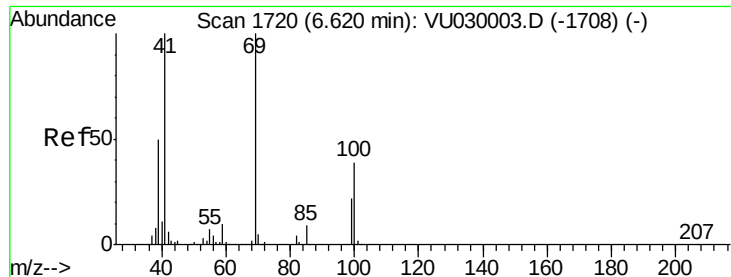
Abundance Ion 74.90 (74.60 to 75.60): VU030008.D (-2775) (-)

Ion 53.00 (52.70 to 53.70): VU030008.D (-2775) (-)

Ion 88.80 (88.50 to 89.50): VU030008.D (-2775) (-)

Ion 87.80 (87.50 to 88.50): VU030008.D (-2775) (-)





#47

Methyl methacrylate

Concen: 0.389 ug/l

RT: 6.64 min Scan# 1725

Delta R.T. 0.02 min

Lab File: VU030008.D

Acq: 12 Mar 2019 15:52

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

Tgt Ion: 69 Resp: 2840

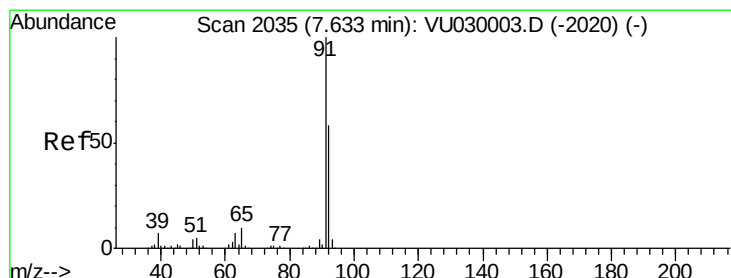
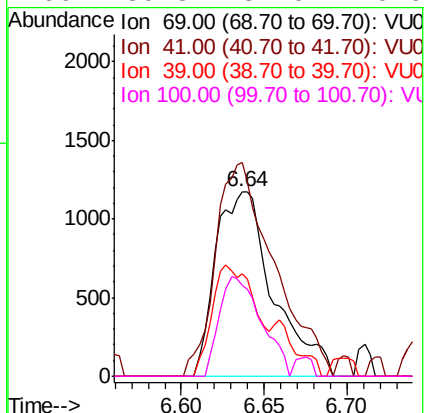
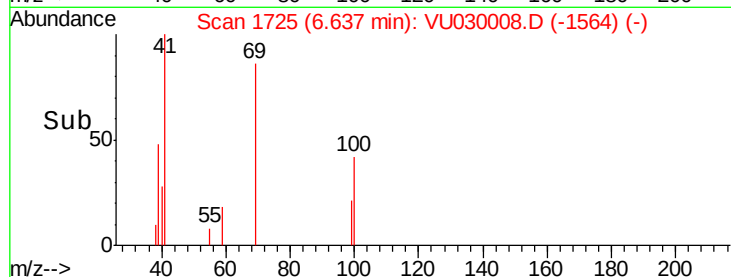
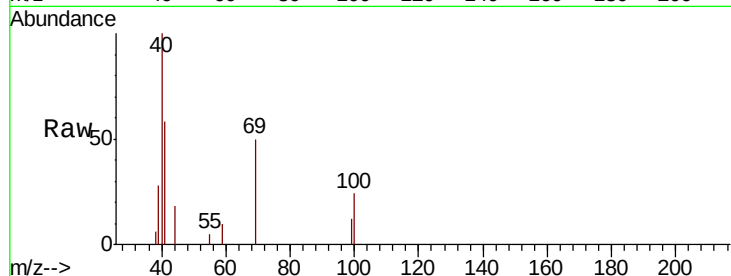
Ion Ratio Lower Upper

69 100

41 117.6 0.0 197.8

39 45.0 40.2 60.4

100 39.3 31.0 46.6



#49

Toluene

Concen: 0.235 ug/l

RT: 7.64 min Scan# 2036

Delta R.T. 0.00 min

Lab File: VU030008.D

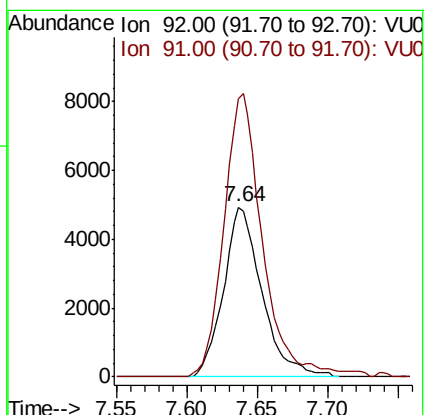
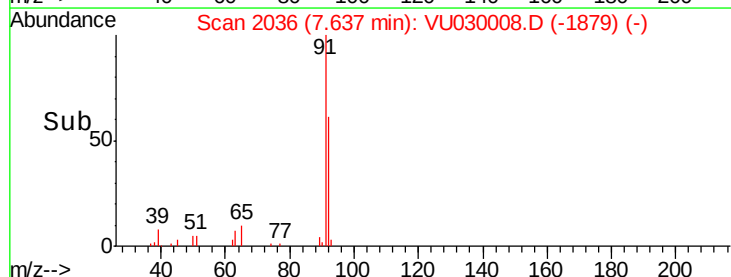
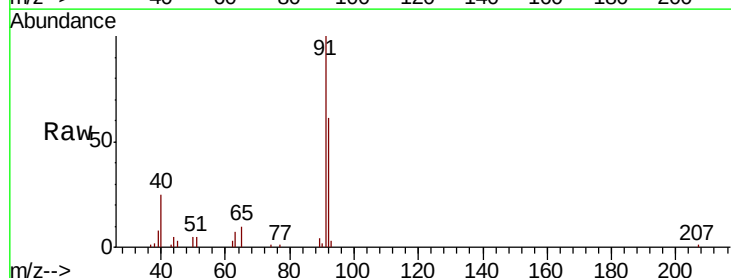
Acq: 12 Mar 2019 15:52

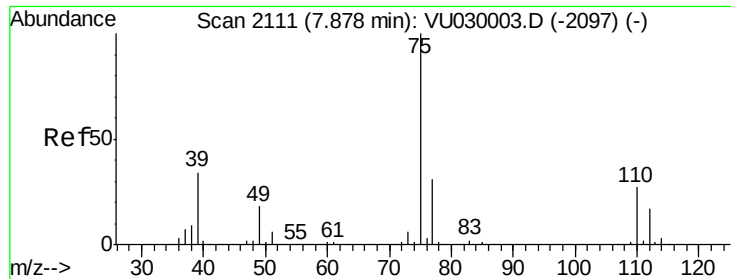
Tgt Ion: 92 Resp: 9381

Ion Ratio Lower Upper

92 100

91 166.4 140.1 210.1

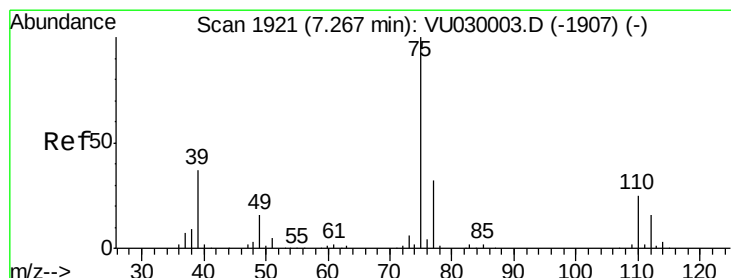
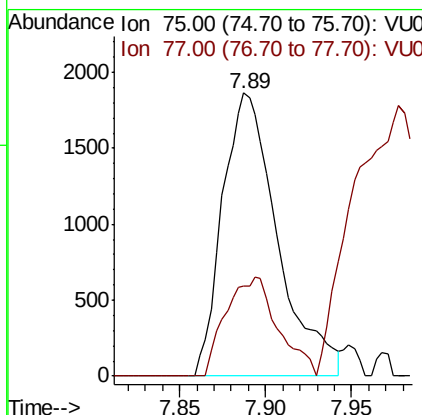
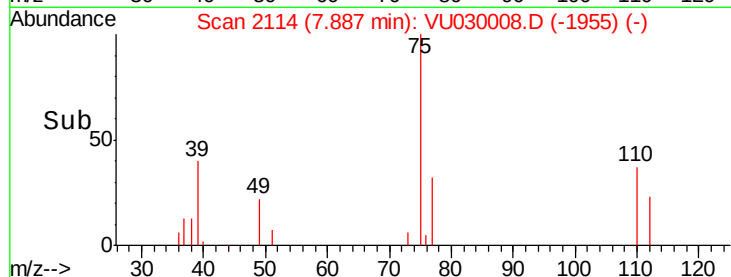
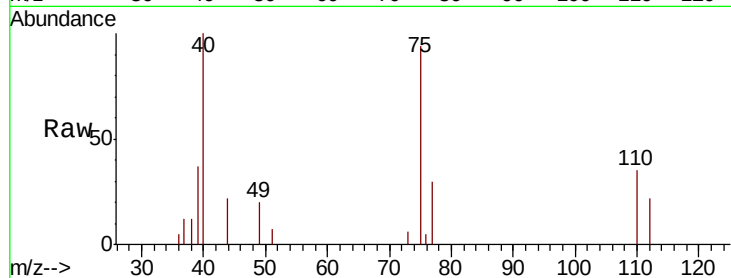




#50
 t-1,3-Dichloropropene
 Concen: 0.224 ug/l
 RT: 7.89 min Scan# 2114
 Delta R.T. 0.01 min
 Lab File: VU030008.D
 Acq: 12 Mar 2019 15:52

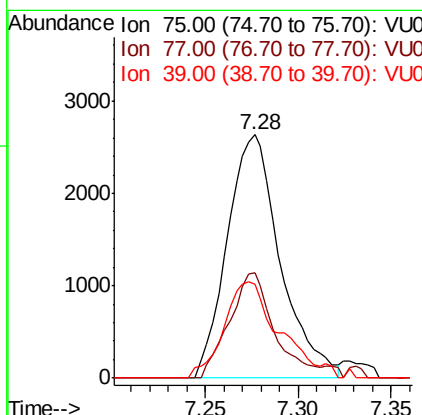
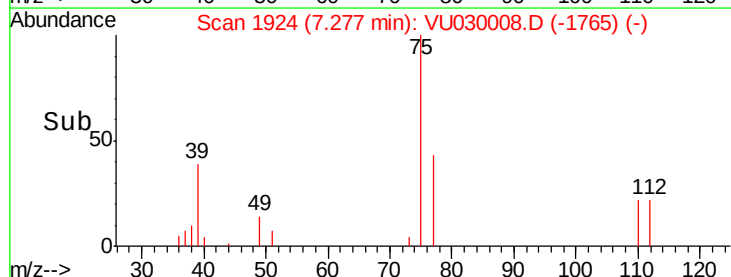
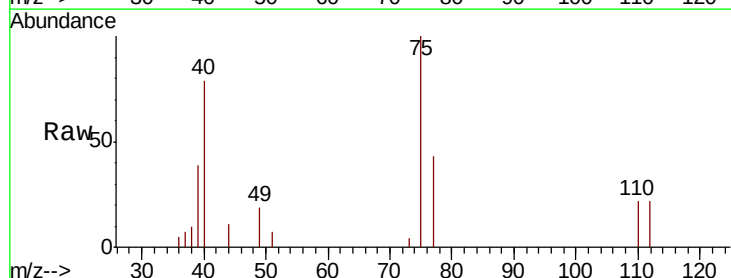
Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT1-2019

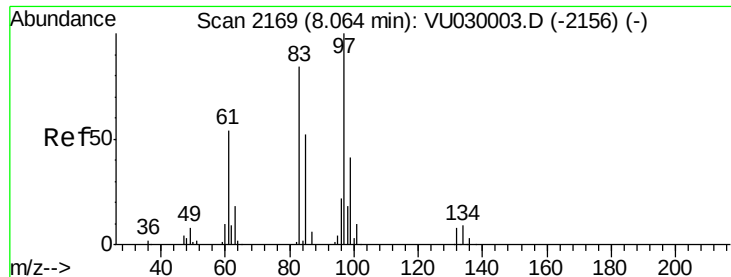
Tgt Ion: 75 Resp: 4166
 Ion Ratio Lower Upper
 75 100
 77 31.7 25.1 37.7



#51
 cis-1,3-Dichloropropene
 Concen: 0.223 ug/l
 RT: 7.28 min Scan# 1924
 Delta R.T. 0.01 min
 Lab File: VU030008.D
 Acq: 12 Mar 2019 15:52

Tgt Ion: 75 Resp: 5233
 Ion Ratio Lower Upper
 75 100
 77 43.4 26.0 39.0#
 39 38.6 29.5 44.3

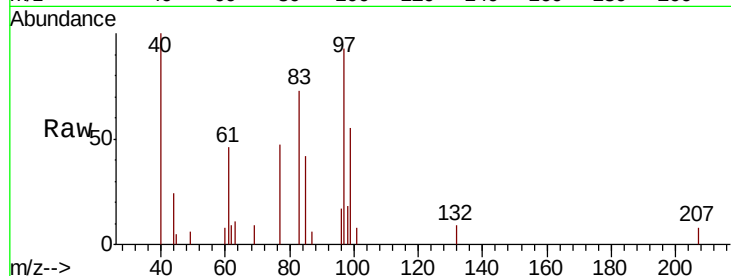




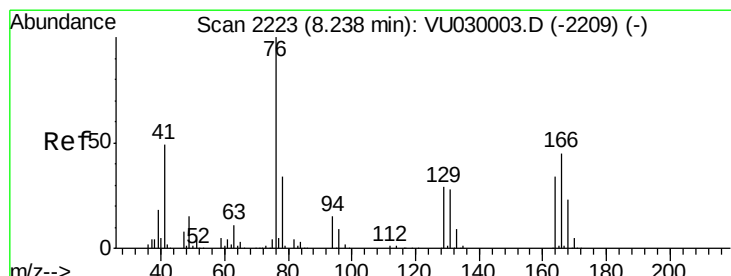
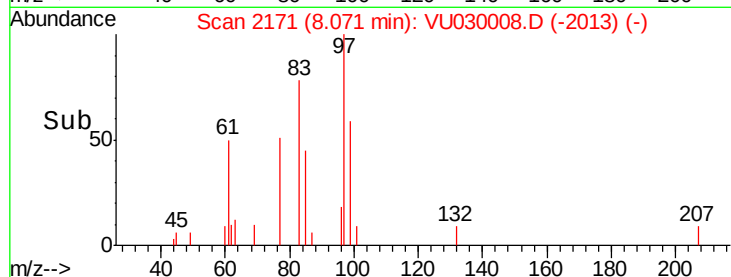
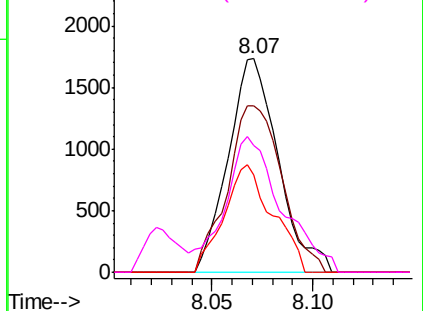
#52
 1,1,2-Trichloroethane
 Concen: 0.244 ug/l
 RT: 8.07 min Scan# 2171
 Delta R.T. 0.01 min
 Lab File: VU030008.D
 Acq: 12 Mar 2019 15:52

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

Tgt Ion:	97	Resp:	3004
Ion	Ratio	Lower	Upper
97	100		
83	78.0	67.4	101.0
85	45.3	42.6	64.0
99	59.5	48.9	73.3

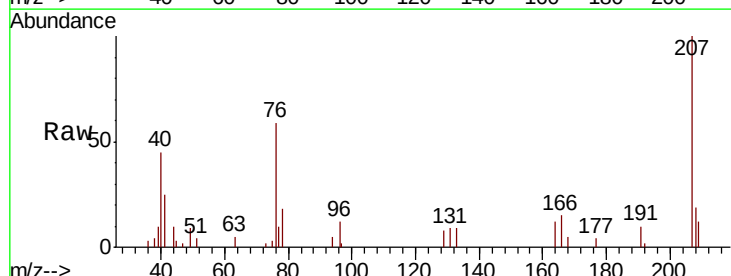


Abundance Ion 97.00 (96.70 to 97.70): VU030008.D (-2156) (-)

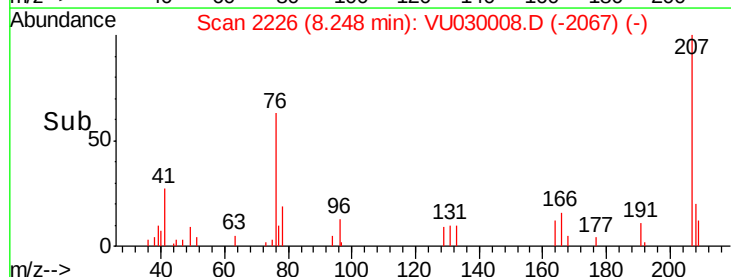
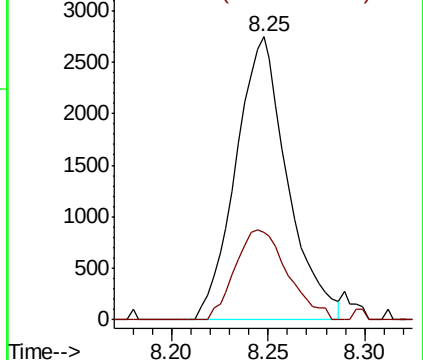


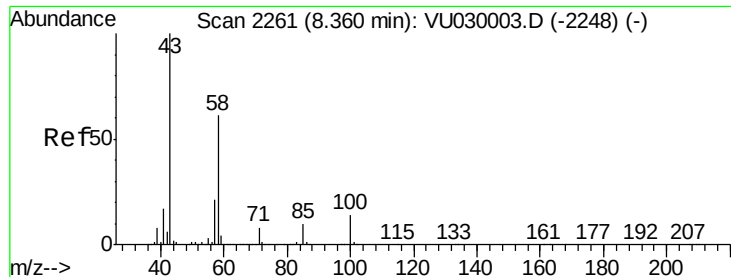
#53
 1,3-Dichloropropane
 Concen: 0.247 ug/l
 RT: 8.25 min Scan# 2226
 Delta R.T. 0.01 min
 Lab File: VU030008.D
 Acq: 12 Mar 2019 15:52

Tgt Ion:	76	Resp:	5099
Ion	Ratio	Lower	Upper
76	100		
78	32.2	26.4	39.6



Abundance Ion 76.00 (75.70 to 76.70): VU030008.D (-2067) (-)

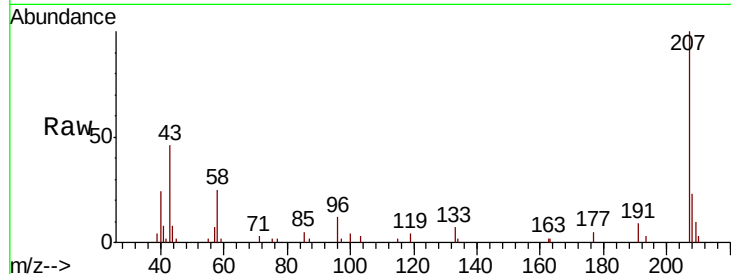




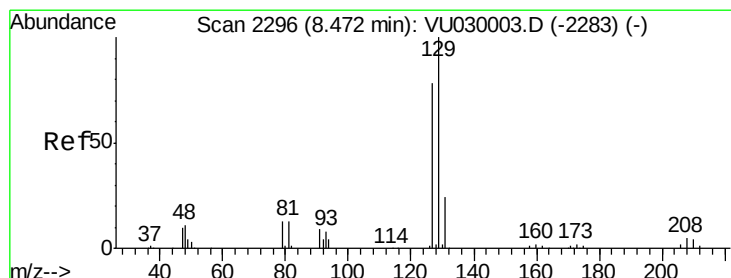
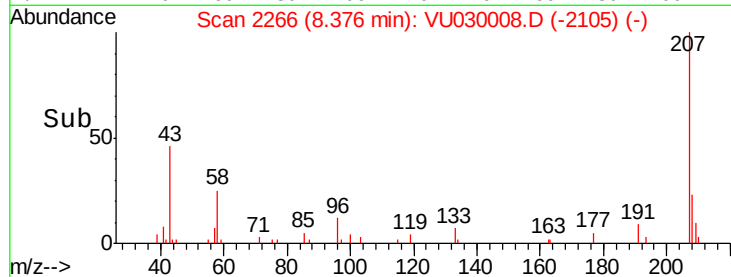
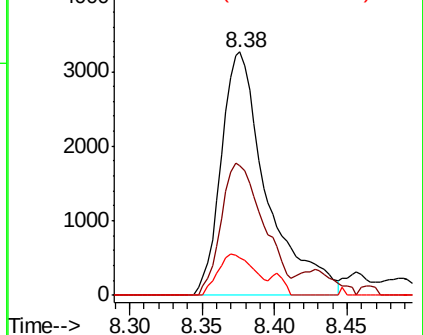
#54
2-Hexanone
Concen: 1.152 ug/l
RT: 8.38 min Scan# 2266
Delta R.T. 0.02 min
Lab File: VU030008.D
Acq: 12 Mar 2019 15:52

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

Tgt Ion: 43 Resp: 7152
Ion Ratio Lower Upper
43 100
58 50.7 40.3 80.3
57 13.5 0.6 40.6

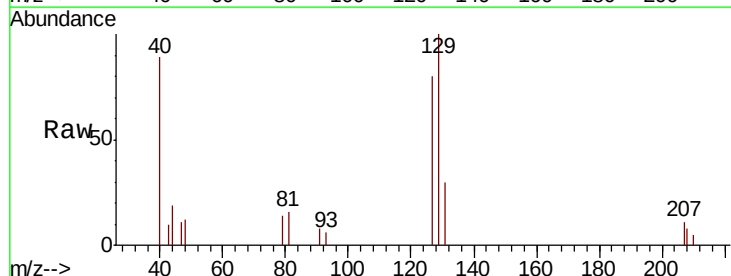


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0

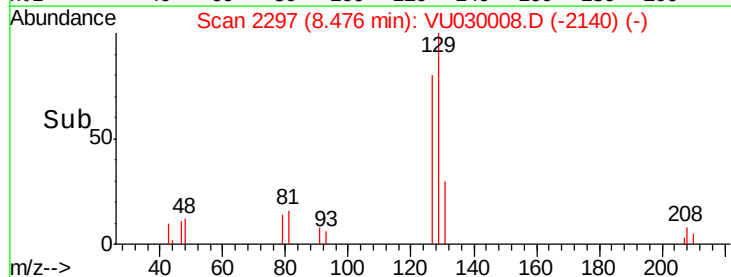
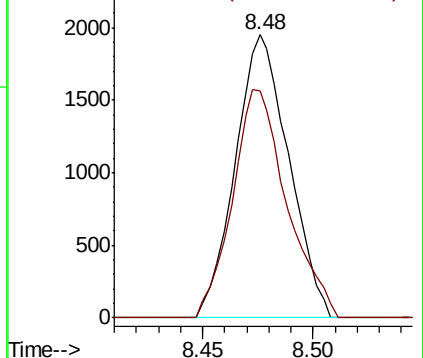


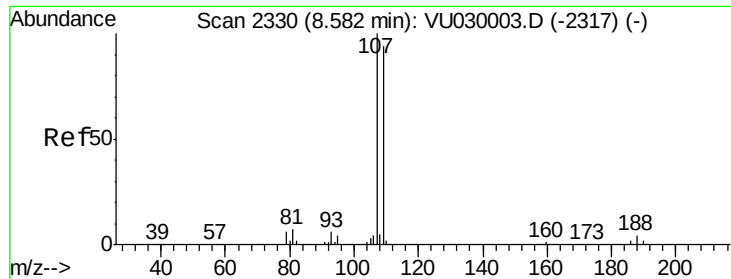
#55
Dibromochloromethane
Concen: 0.221 ug/l
RT: 8.48 min Scan# 2297
Delta R.T. 0.00 min
Lab File: VU030008.D
Acq: 12 Mar 2019 15:52

Tgt Ion: 129 Resp: 3285
Ion Ratio Lower Upper
129 100
127 82.1 62.4 93.6



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V





#56

1,2-Dibromoethane

Concen: 0.239 ug/l

RT: 8.59 min Scan# 2333

Delta R.T. 0.01 min

Lab File: VU030008.D

Acq: 12 Mar 2019 15:52

Instrument :

MSVOA_U

ClientSampleId :

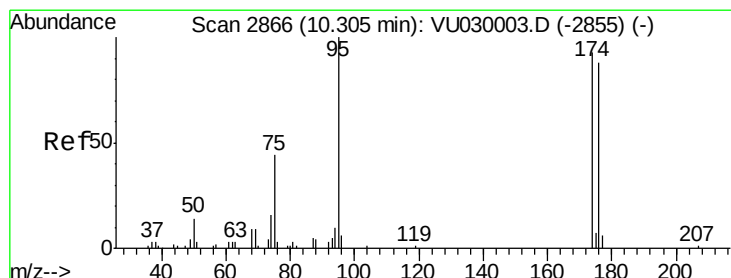
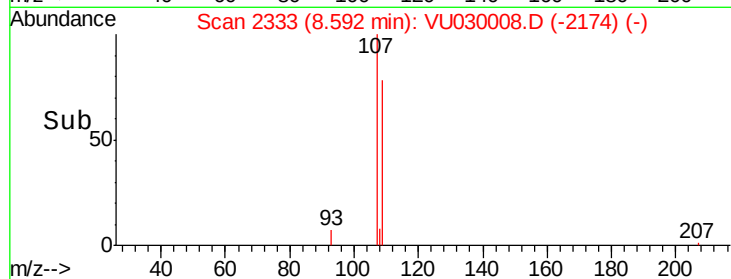
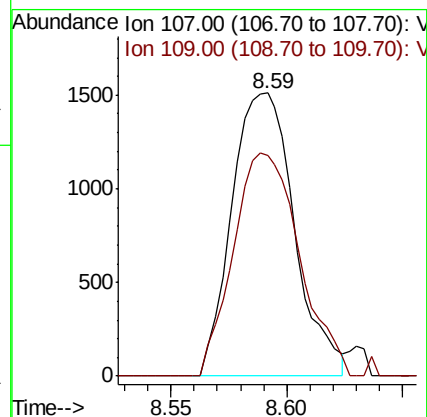
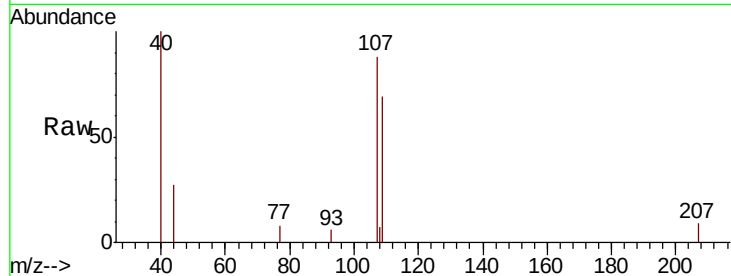
LOD-MDL-WATER-01-QT1-2019

Tgt Ion: 107 Resp: 2838

Ion Ratio Lower Upper

107 100

109 83.3 0.0 186.8



#57

4-Bromofluorobenzene

Concen: 0.239 ug/l

RT: 10.31 min Scan# 2867

Delta R.T. 0.00 min

Lab File: VU030008.D

Acq: 12 Mar 2019 15:52

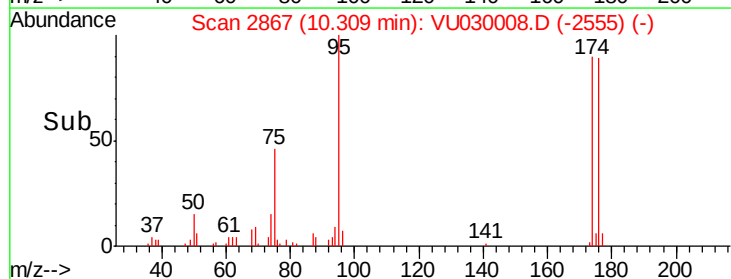
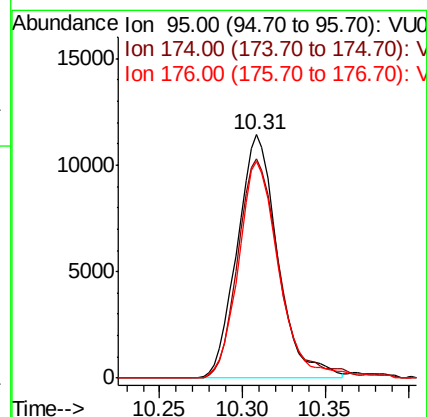
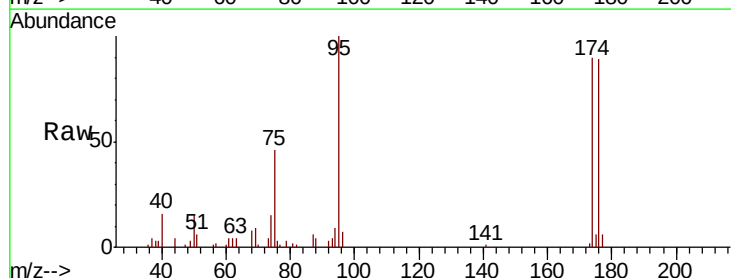
Tgt Ion: 95 Resp: 19476

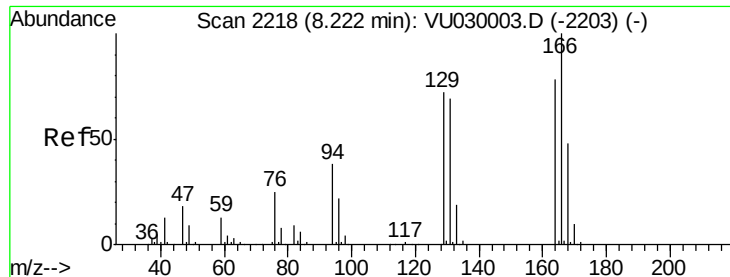
Ion Ratio Lower Upper

95 100

174 92.2 78.1 117.1

176 89.5 70.8 106.2

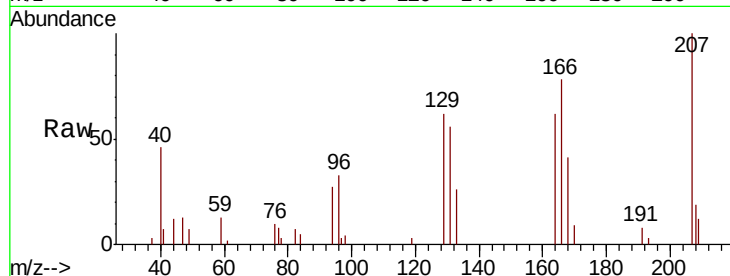




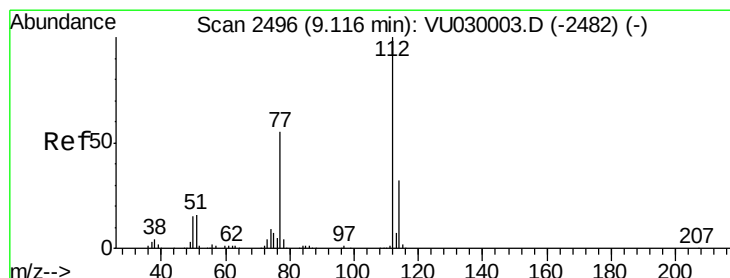
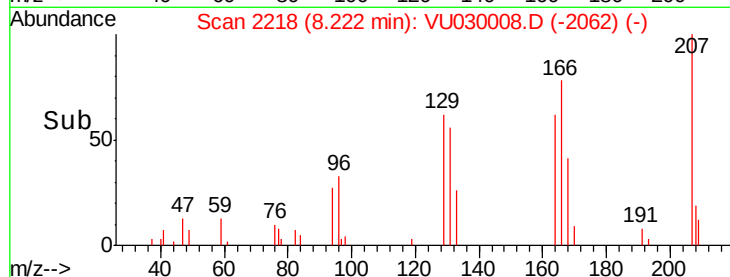
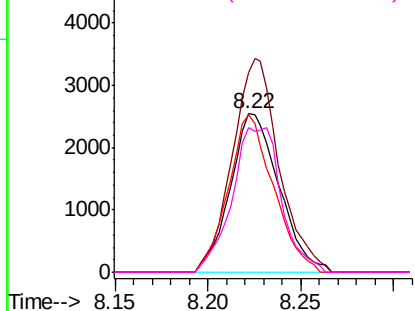
#58
Tetrachloroethene
Concen: 0.268 ug/l
RT: 8.22 min Scan# 2218
Delta R.T. 0.00 min
Lab File: VU030008.D
Acq: 12 Mar 2019 15:52

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

Tgt Ion:164 Resp: 4642
Ion Ratio Lower Upper
164 100
166 125.8 103.2 154.8
129 99.4 74.5 111.7
131 91.2 70.9 106.3

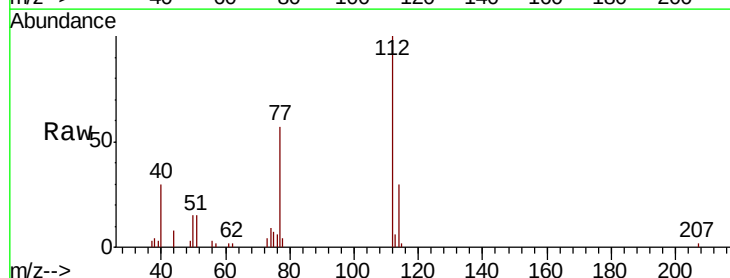


Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.90 (128.60 to 129.60): V
Ion 130.90 (130.60 to 131.60): V

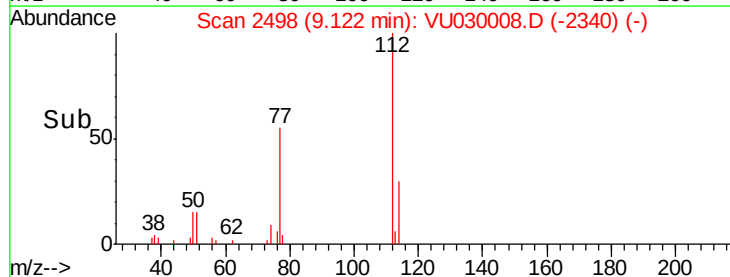
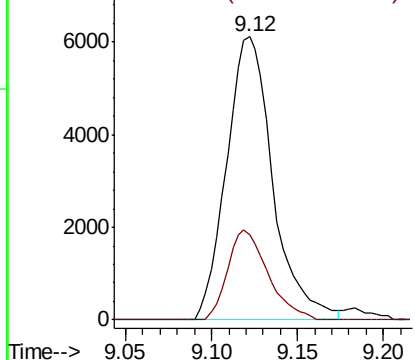


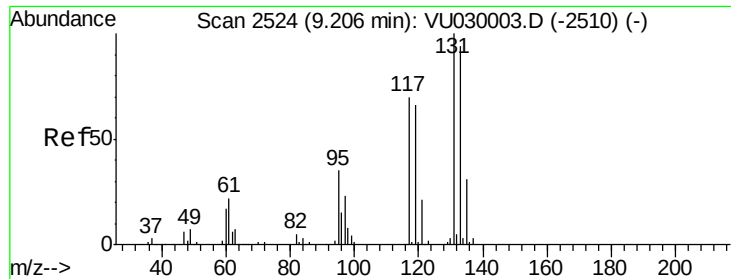
#59
Chlorobenzene
Concen: 0.251 ug/l
RT: 9.12 min Scan# 2498
Delta R.T. 0.01 min
Lab File: VU030008.D
Acq: 12 Mar 2019 15:52

Tgt Ion:112 Resp: 11477
Ion Ratio Lower Upper
112 100
114 30.1 25.6 38.4



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 114.00 (113.70 to 114.70): V

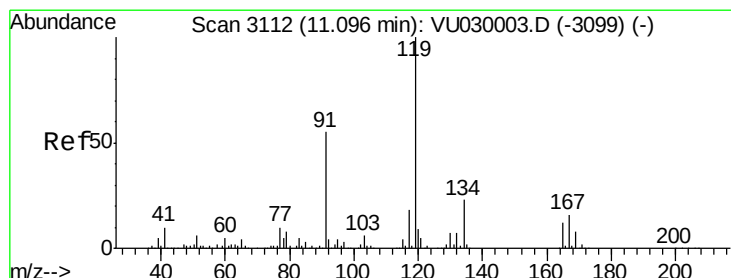
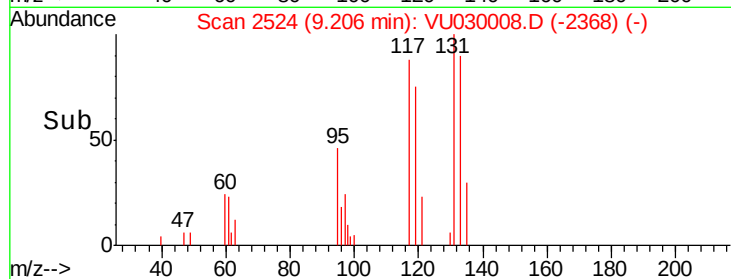
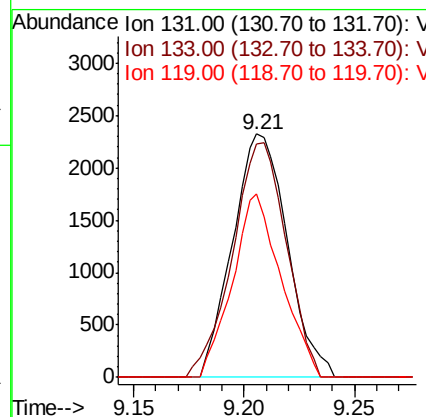
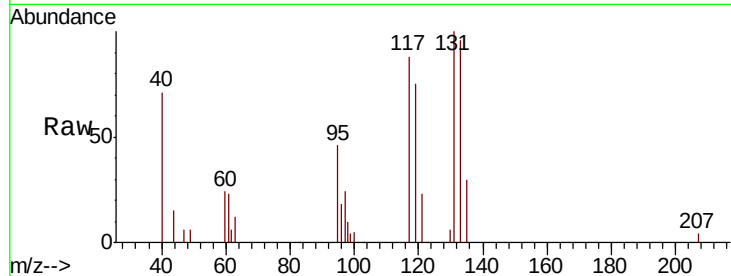




#60
 1,1,1,2-Tetrachloroethane
 Concen: 0.247 ug/l
 RT: 9.21 min Scan# 2524
 Delta R.T. 0.00 min
 Lab File: VU030008.D
 Acq: 12 Mar 2019 15:52

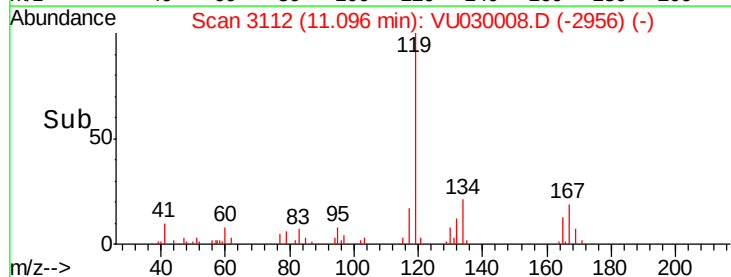
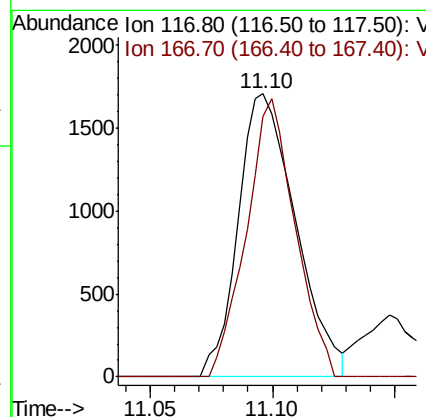
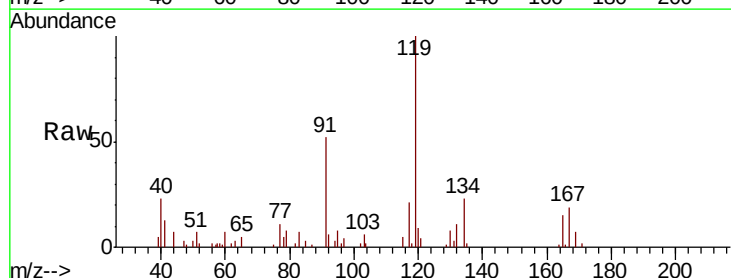
Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT1-2019

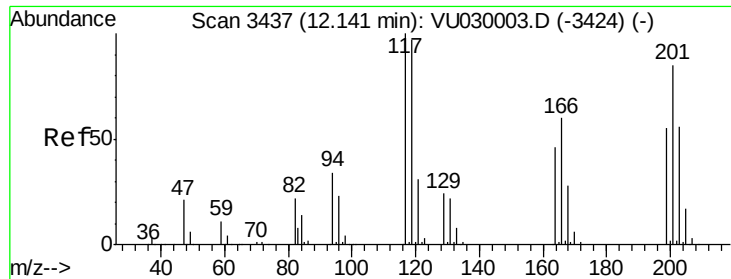
Tgt Ion:131 Resp: 3987
 Ion Ratio Lower Upper
 131 100
 133 94.7 75.6 113.4
 119 67.0 53.3 79.9



#61
 Pentachloroethane
 Concen: 0.225 ug/l
 RT: 11.10 min Scan# 3112
 Delta R.T. 0.00 min
 Lab File: VU030008.D
 Acq: 12 Mar 2019 15:52

Tgt Ion:117 Resp: 2797
 Ion Ratio Lower Upper
 117 100
 167 83.0 73.1 109.7





#62

Hexachloroethane

Concen: 0.231 ug/l

RT: 12.14 min Scan# 3437

Delta R.T. 0.00 min

Lab File: VU030008.D

Acq: 12 Mar 2019 15:52

Instrument :

MSVOA_U

ClientSampleId :

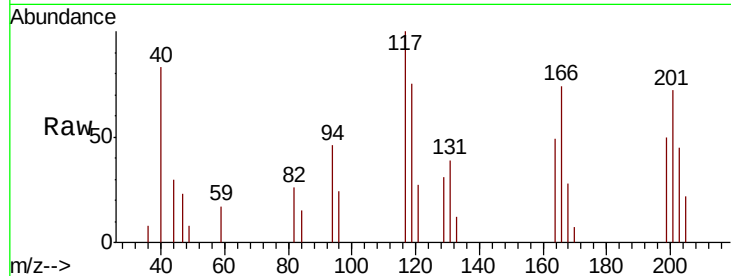
LOD-MDL-WATER-01-QT1-2019

Tgt Ion:117 Resp: 2900

Ion Ratio Lower Upper

117 100

201 77.4 69.5 104.3



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.60 (200.30 to 201.30): V

12.14

2000

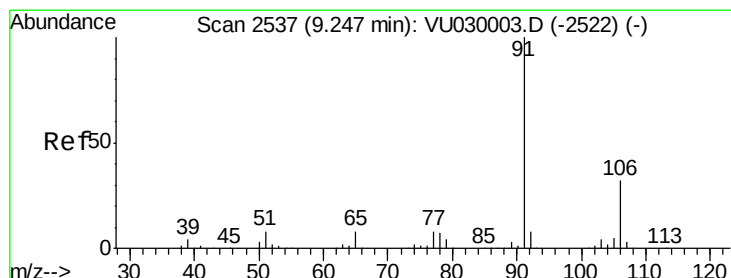
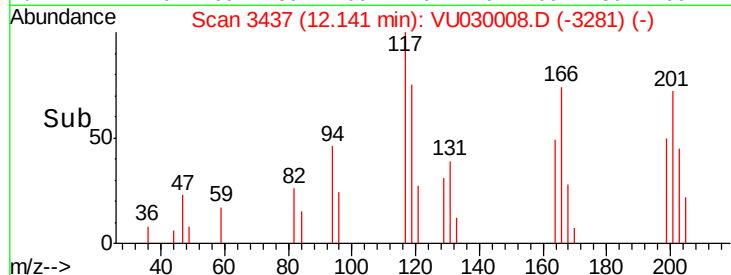
1500

1000

500

0

Time-->



#63

Ethyl Benzene

Concen: 0.224 ug/l

RT: 9.25 min Scan# 2538

Delta R.T. 0.00 min

Lab File: VU030008.D

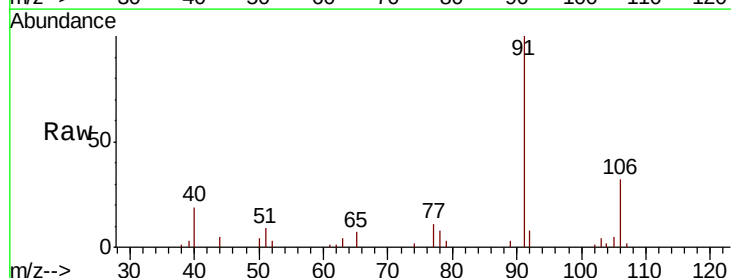
Acq: 12 Mar 2019 15:52

Tgt Ion: 91 Resp: 16808

Ion Ratio Lower Upper

91 100

106 31.9 25.7 38.5



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 106.00 (105.70 to 106.70): V

9.25

10000

8000

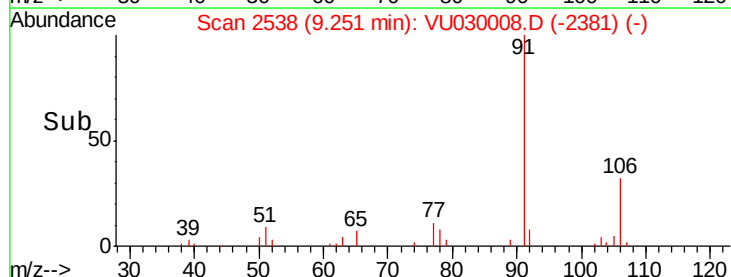
6000

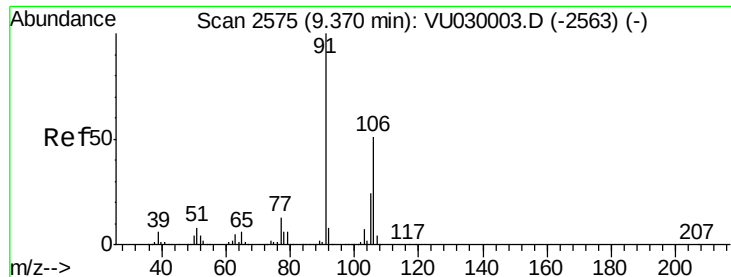
4000

2000

0

Time-->





#64

m/p-Xylenes

Concen: 0.424 ug/l

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU030008.D

Acq: 12 Mar 2019 15:52

Instrument :

MSVOA_U

ClientSampleId :

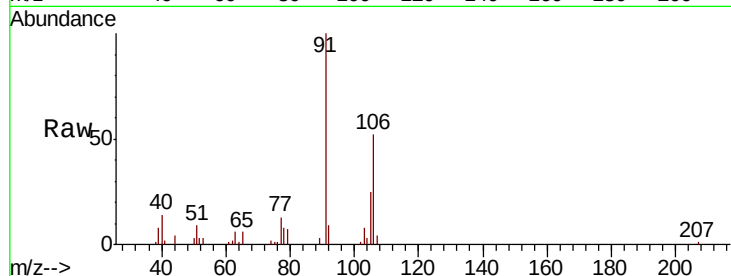
LOD-MDL-WATER-01-QT1-2019

Tgt Ion:106 Resp: 12521

Ion Ratio Lower Upper

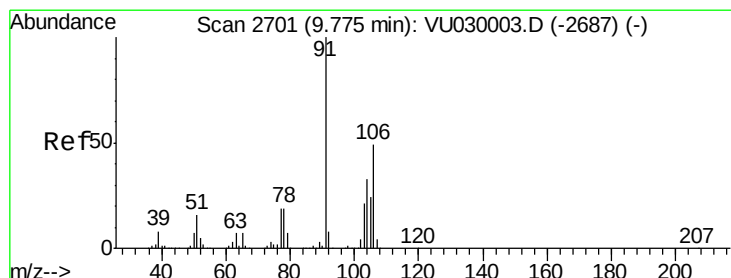
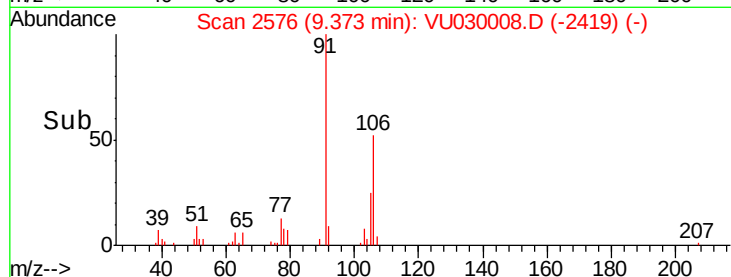
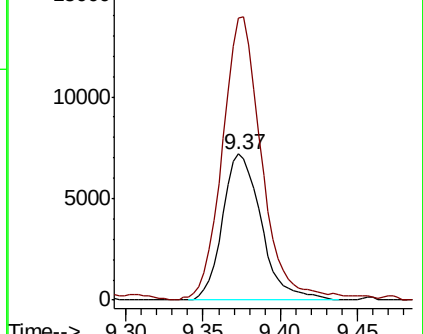
106 100

91 195.9 157.9 236.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#65

o-Xylene

Concen: 0.220 ug/l

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VU030008.D

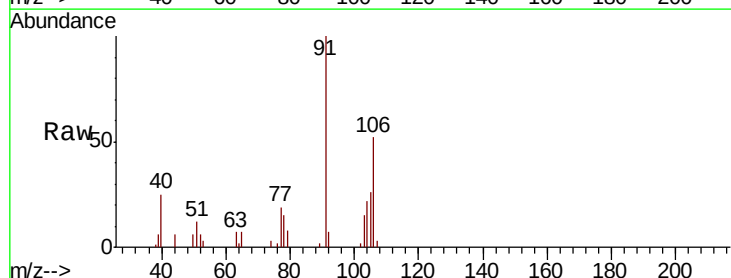
Acq: 12 Mar 2019 15:52

Tgt Ion:106 Resp: 6354

Ion Ratio Lower Upper

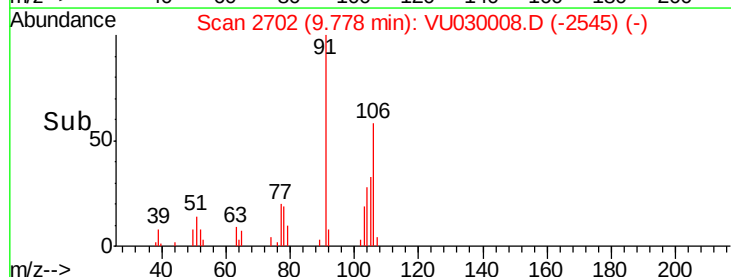
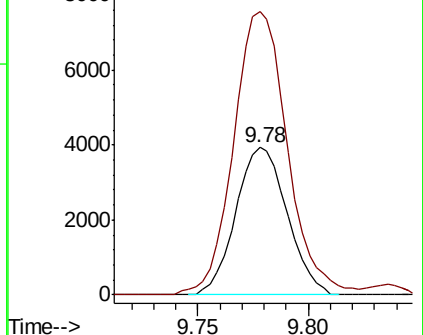
106 100

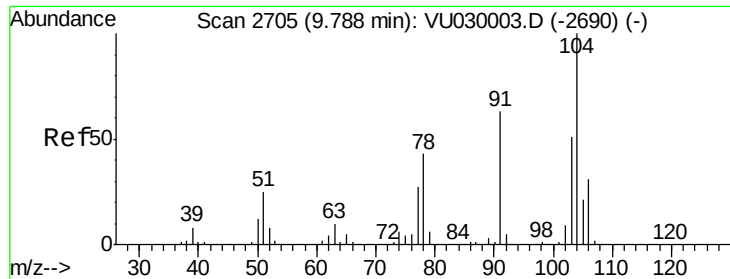
91 201.9 103.2 309.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0





#66

Styrene

Concen: 0.205 ug/l

RT: 9.79 min Scan# 2707

Delta R.T. 0.01 min

Lab File: VU030008.D

Acq: 12 Mar 2019 15:52

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

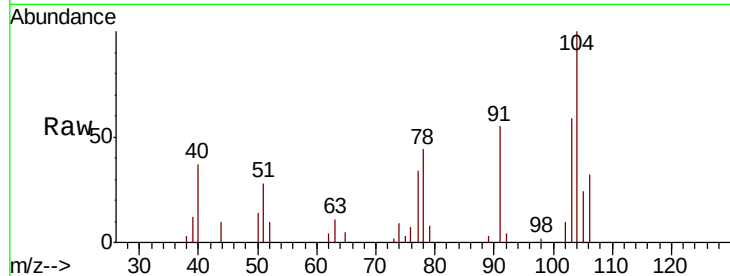
Tgt Ion:104 Resp: 9735

Ion Ratio Lower Upper

104 100

78 46.4 37.0 55.4

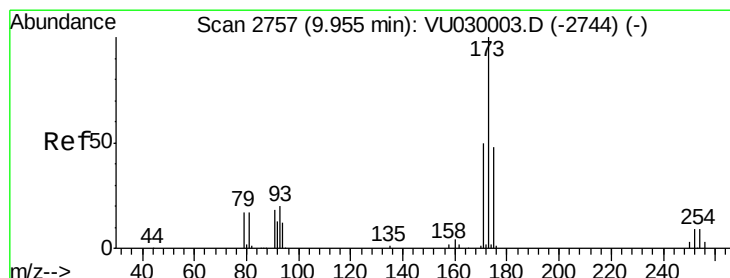
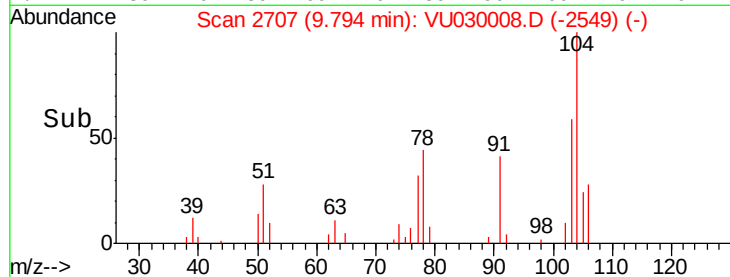
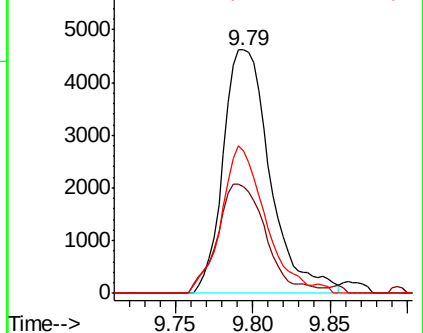
103 56.2 43.8 65.6



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0

Ion 103.00 (102.70 to 103.70): V



#67

Bromoform

Concen: 0.213 ug/l

RT: 9.96 min Scan# 2758

Delta R.T. 0.00 min

Lab File: VU030008.D

Acq: 12 Mar 2019 15:52

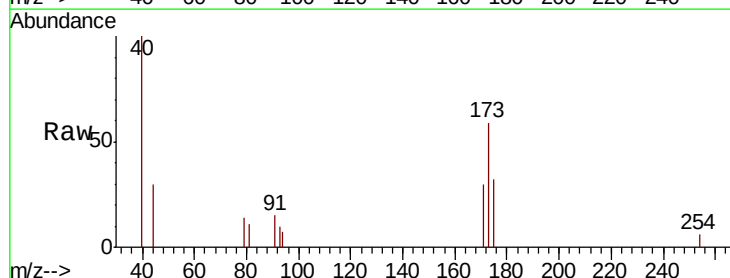
Tgt Ion:173 Resp: 1806

Ion Ratio Lower Upper

173 100

175 48.4 39.0 58.4

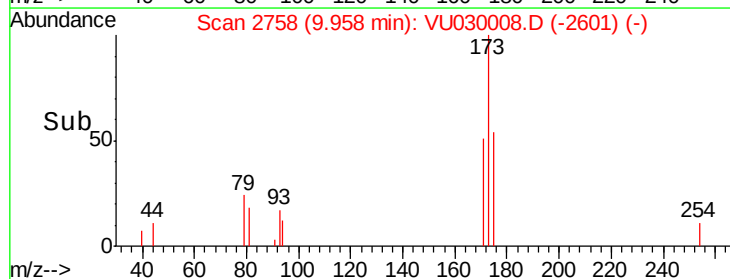
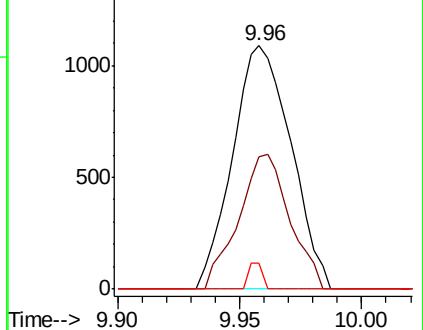
254 2.5 7.0 10.4#

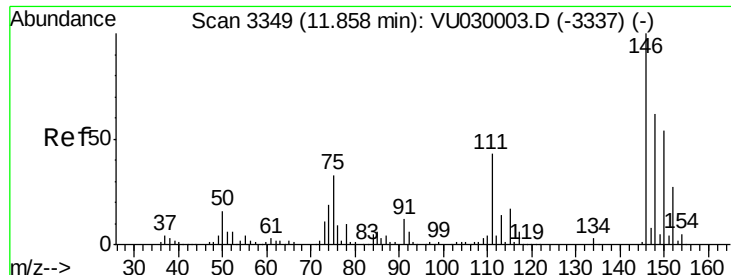


Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 253.75 (253.45 to 254.45): V

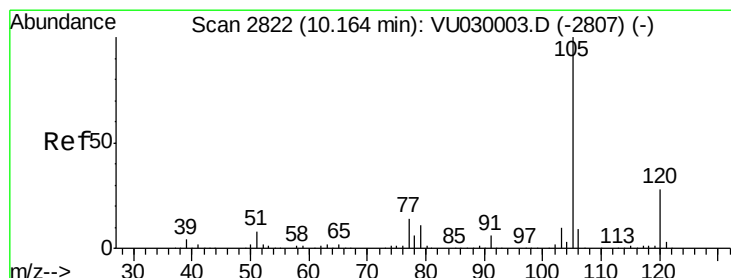
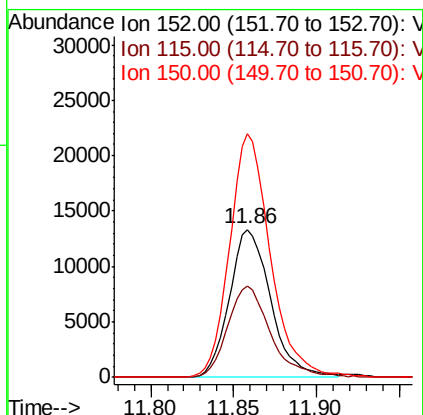
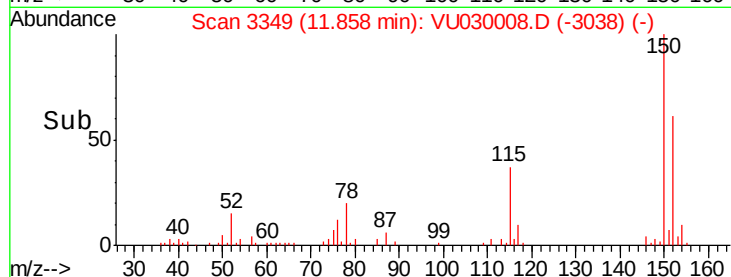
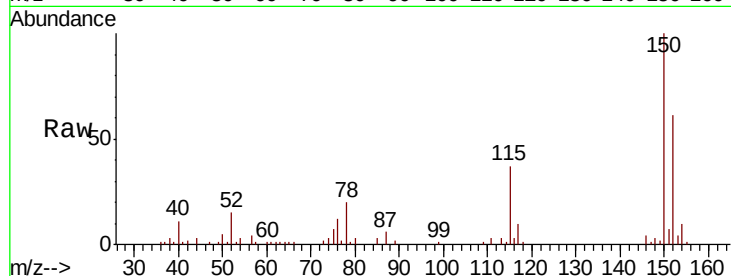




#68
 1,2-Dichlorobenzene-d4
 Concen: 0.213 ug/l
 RT: 11.86 min Scan# 3349
 Delta R.T. 0.00 min
 Lab File: VU030008.D
 Acq: 12 Mar 2019 15:52

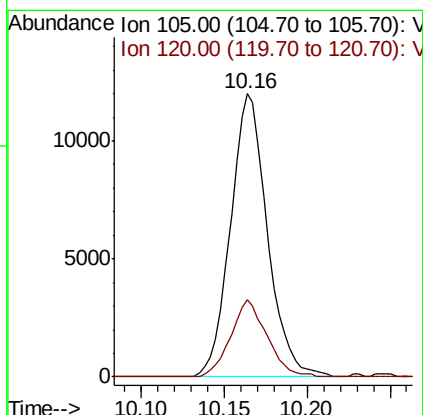
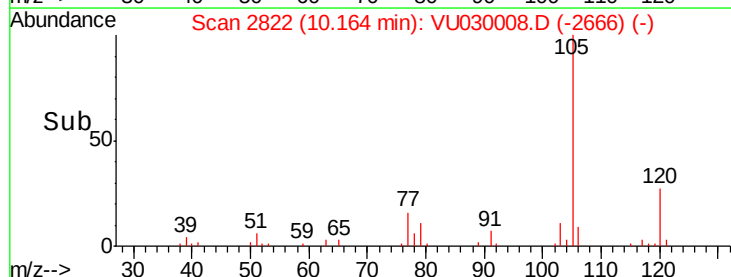
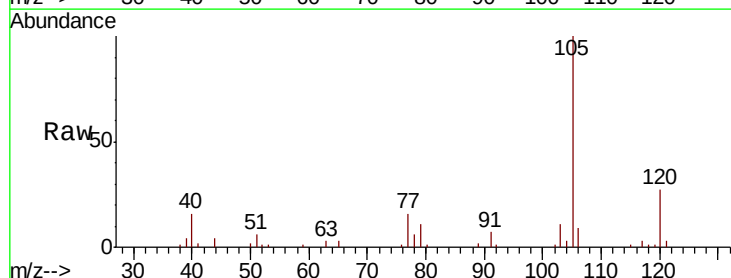
Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT1-2019

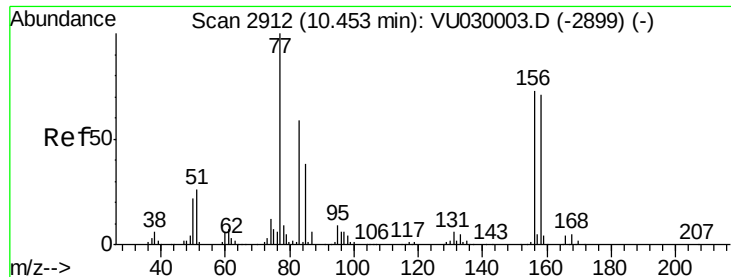
Tgt Ion:152 Resp: 23161
 Ion Ratio Lower Upper
 152 100
 115 63.5 0.0 126.8
 150 162.1 0.0 634.2



#69
 Isopropylbenzene
 Concen: 0.246 ug/l
 RT: 10.16 min Scan# 2822
 Delta R.T. 0.00 min
 Lab File: VU030008.D
 Acq: 12 Mar 2019 15:52

Tgt Ion:105 Resp: 18537
 Ion Ratio Lower Upper
 105 100
 120 26.8 13.5 40.5





#70

1,1,2,2-Tetrachloroethane

Concen: 0.288 ug/l

RT: 10.46 min Scan# 2913

Delta R.T. 0.00 min

Lab File: VU030008.D

Acq: 12 Mar 2019 15:52

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

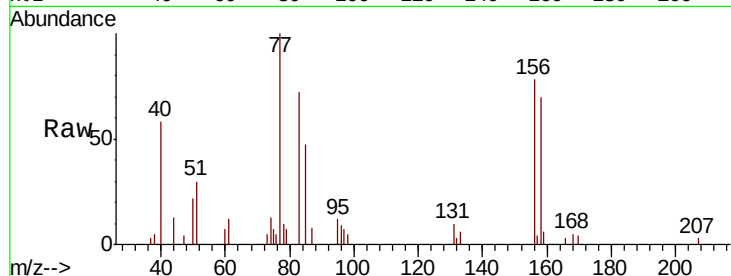
Tgt Ion: 83 Resp: 4373

Ion Ratio Lower Upper

83 100

131 11.6 8.4 12.6

85 63.8 52.6 78.8

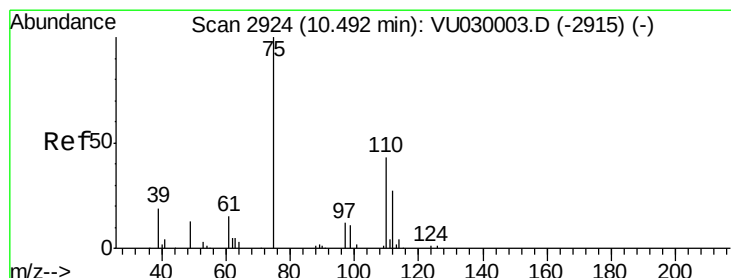
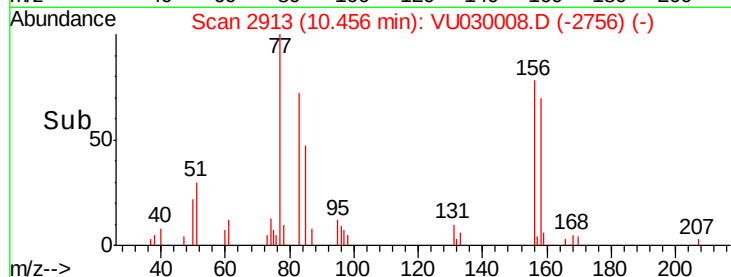


Abundance Ion 83.00 (82.70 to 83.70): VU030003.D (-2899) (-)

Ion 131.00 (130.70 to 131.70): VU030003.D (-2899) (-)

Ion 85.00 (84.70 to 85.70): VU030003.D (-2899) (-)

Time-->



#71

1,2,3-Trichloropropane

Concen: 0.423 ug/l

RT: 10.50 min Scan# 2925

Delta R.T. 0.00 min

Lab File: VU030008.D

Acq: 12 Mar 2019 15:52

Tgt Ion: 75 Resp: 4838

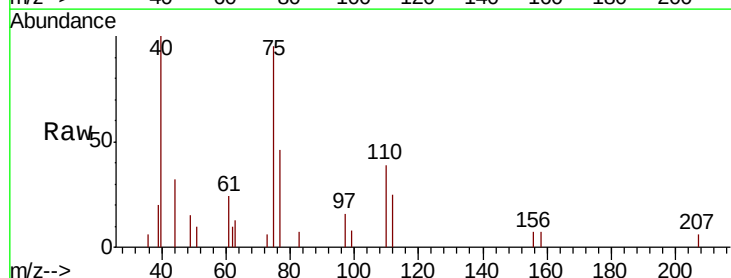
Ion Ratio Lower Upper

75 100

77 22.1 0.0 16.8#

110 22.7 0.0 76.8

97 12.6 0.0 40.8



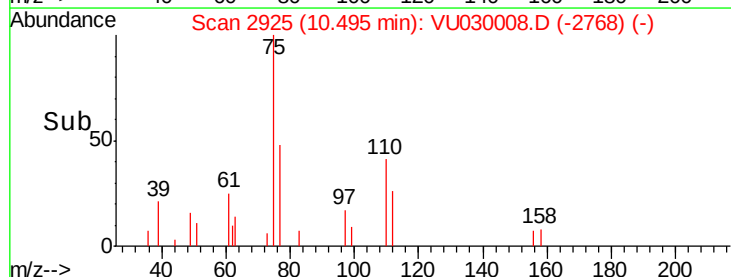
Abundance Ion 75.00 (74.70 to 75.70): VU030003.D (-2915) (-)

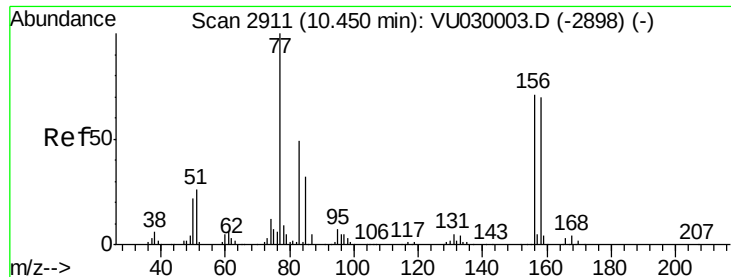
Ion 77.00 (76.70 to 77.70): VU030003.D (-2915) (-)

Ion 110.00 (109.70 to 110.70): VU030003.D (-2915) (-)

Ion 97.00 (96.70 to 97.70): VU030003.D (-2915) (-)

Time-->





#72

Bromobenzene

Concen: 0.225 ug/l

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU030008.D

Acq: 12 Mar 2019 15:52

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

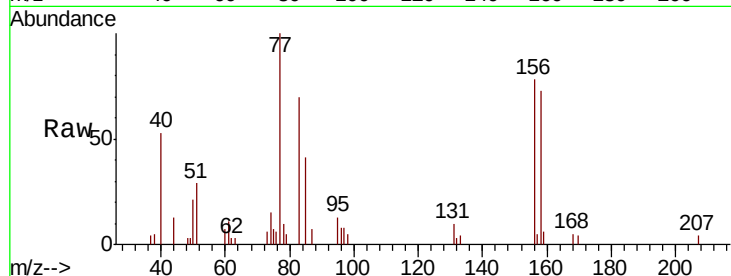
Tgt Ion:156 Resp: 4456

Ion Ratio Lower Upper

156 100

77 151.3 0.0 278.6

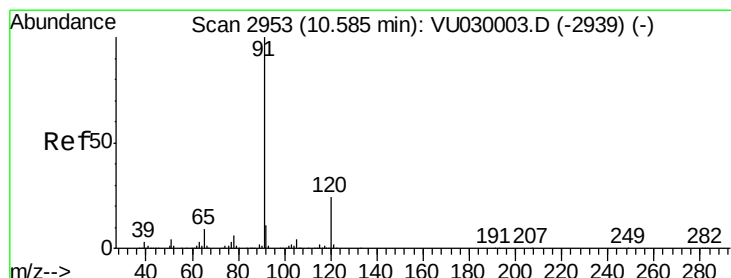
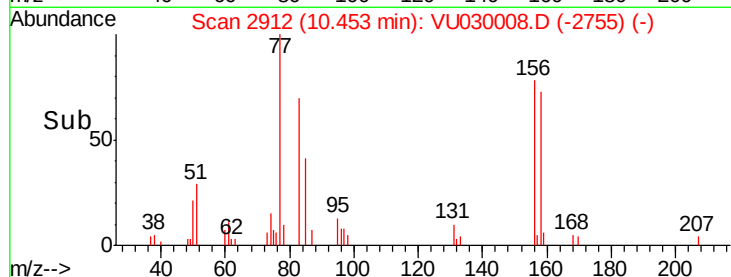
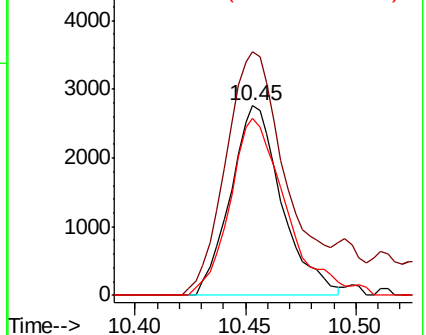
158 102.4 0.0 195.2



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VU0

Ion 158.00 (157.70 to 158.70): V



#73

n-propylbenzene

Concen: 0.236 ug/l

RT: 10.59 min Scan# 2953

Delta R.T. 0.00 min

Lab File: VU030008.D

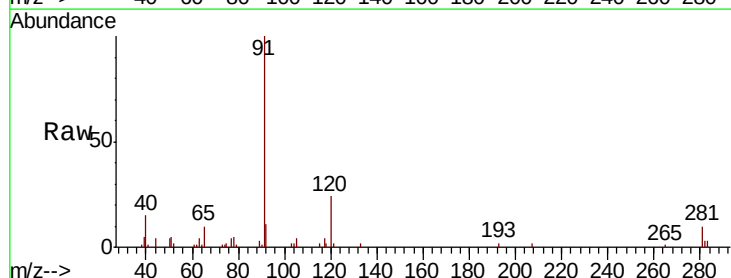
Acq: 12 Mar 2019 15:52

Tgt Ion:120 Resp: 5049

Ion Ratio Lower Upper

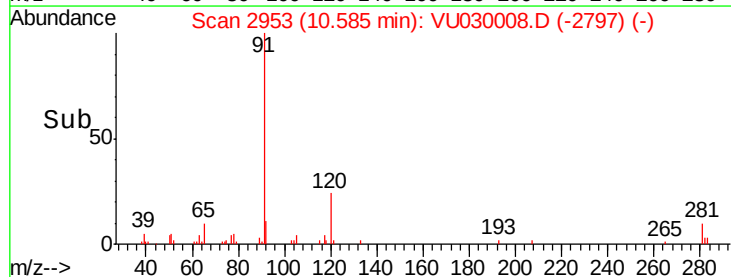
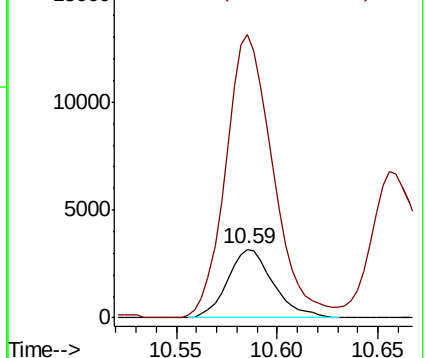
120 100

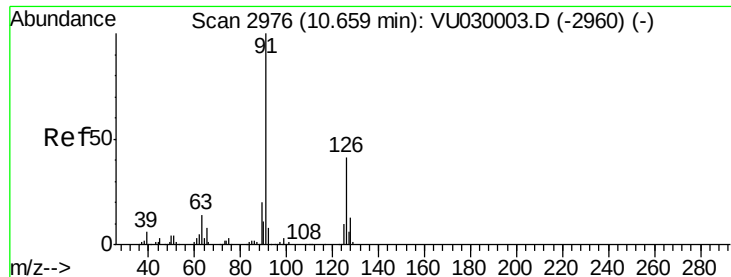
91 427.1 335.4 503.0



Abundance Ion 120.00 (119.70 to 120.70): V

Ion 91.00 (90.70 to 91.70): VU0





#74

2-Chlorotoluene

Concen: 0.223 ug/l

RT: 10.66 min Scan# 2977

Delta R.T. 0.00 min

Lab File: VU030008.D

Acq: 12 Mar 2019 15:52

Instrument :

MSVOA_U

ClientSampleId :

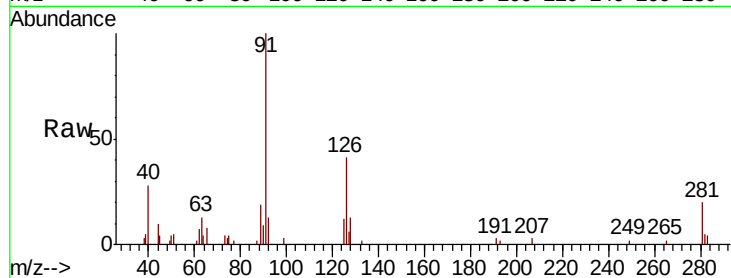
LOD-MDL-WATER-01-QT1-2019

Tgt Ion:126 Resp: 4189

Ion Ratio Lower Upper

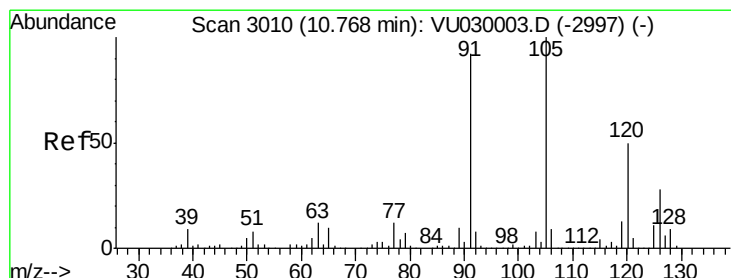
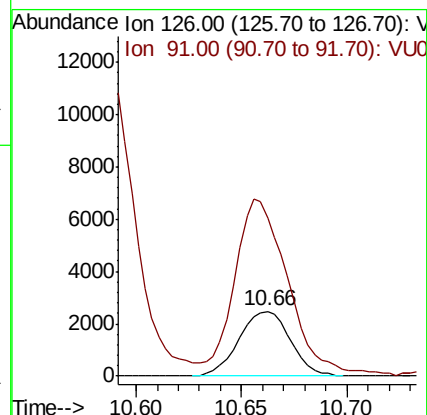
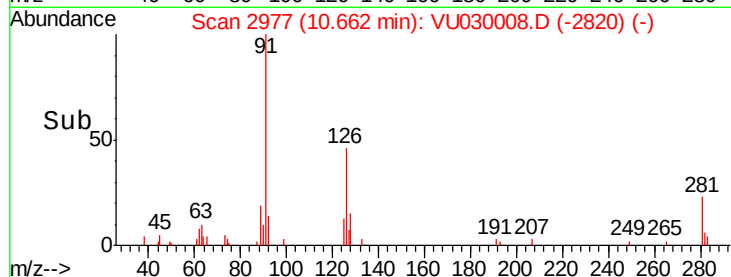
126 100

91 286.4 0.0 561.0



Abundance Ion 126.00 (125.70 to 126.70): V

Ion 91.00 (90.70 to 91.70): VU0



#75

1,3,5-Trimethylbenzene

Concen: 0.204 ug/l

RT: 10.77 min Scan# 3010

Delta R.T. 0.00 min

Lab File: VU030008.D

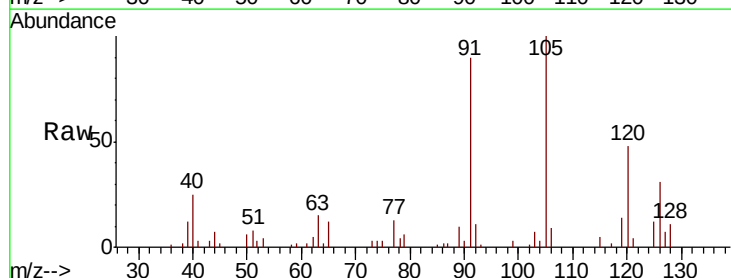
Acq: 12 Mar 2019 15:52

Tgt Ion:105 Resp: 13143

Ion Ratio Lower Upper

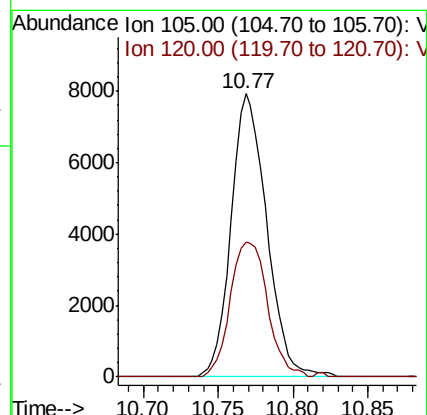
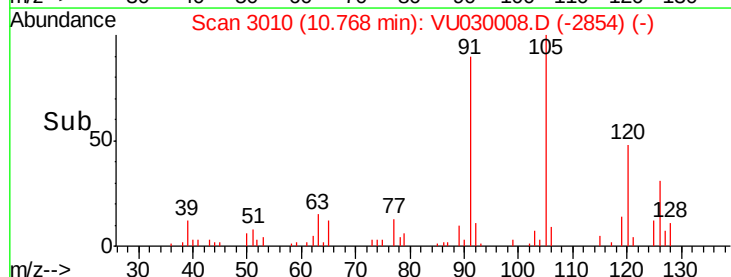
105 100

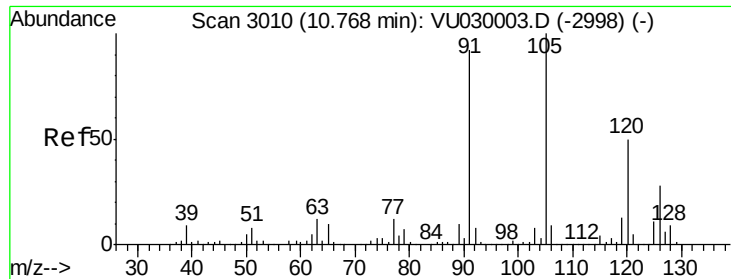
120 49.9 39.8 59.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

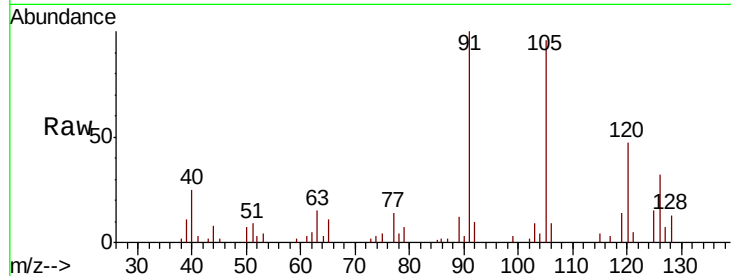




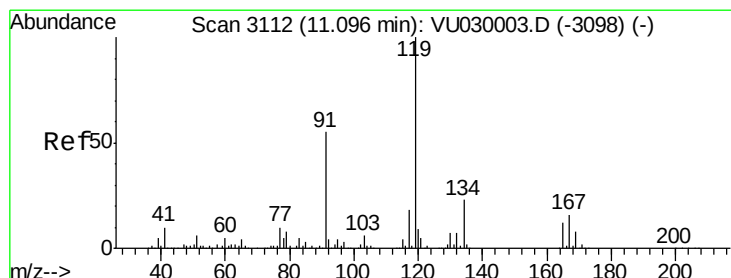
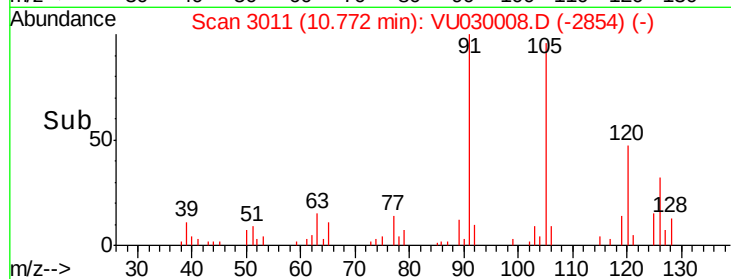
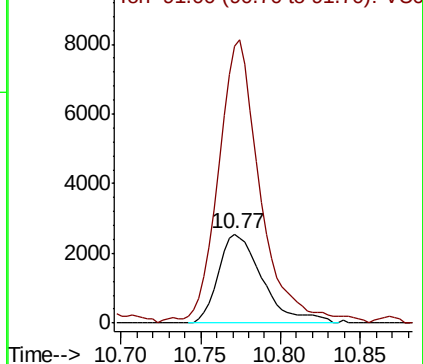
#76
4-Chlorotoluene
Concen: 0.253 ug/l
RT: 10.77 min Scan# 3011
Delta R.T. 0.00 min
Lab File: VU030008.D
Acq: 12 Mar 2019 15:52

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

Tgt Ion:126 Resp: 4835
Ion Ratio Lower Upper
126 100
91 301.9 0.0 641.8

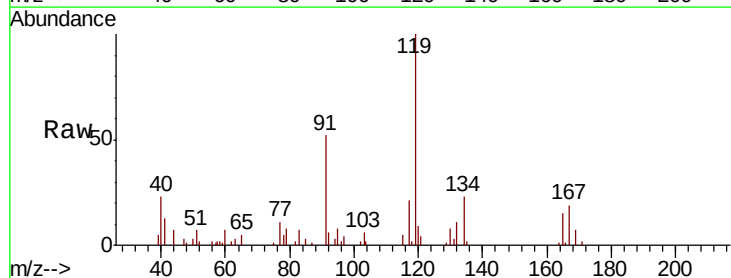


Abundance Ion 126.00 (125.70 to 126.70): V
Ion 91.00 (90.70 to 91.70): VU0

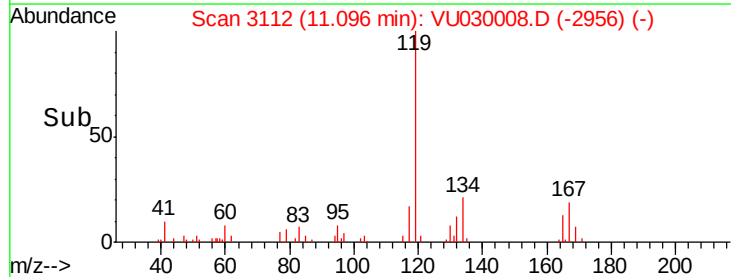
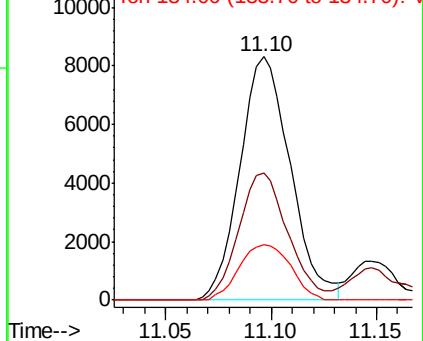


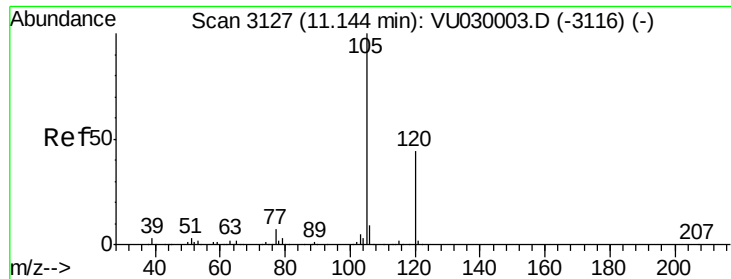
#77
tert-Butylbenzene
Concen: 0.220 ug/l
RT: 11.10 min Scan# 3112
Delta R.T. 0.00 min
Lab File: VU030008.D
Acq: 12 Mar 2019 15:52

Tgt Ion:119 Resp: 13821
Ion Ratio Lower Upper
119 100
91 50.6 27.6 82.8
134 23.3 18.7 28.1



Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): VU0
Ion 134.00 (133.70 to 134.70): V

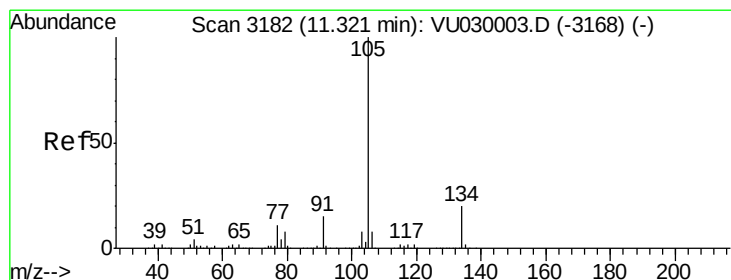
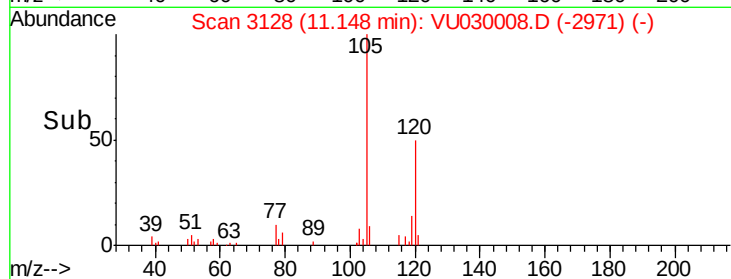
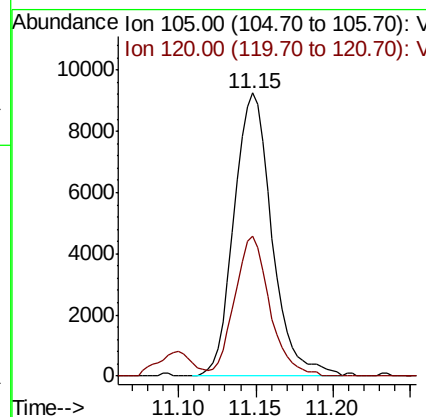
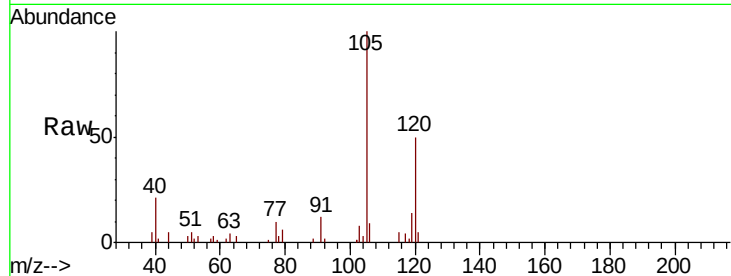




#78
 1,2,4-Trimethylbenzene
 Concen: 0.241 ug/l
 RT: 11.15 min Scan# 3128
 Delta R.T. 0.00 min
 Lab File: VU030008.D
 Acq: 12 Mar 2019 15:52

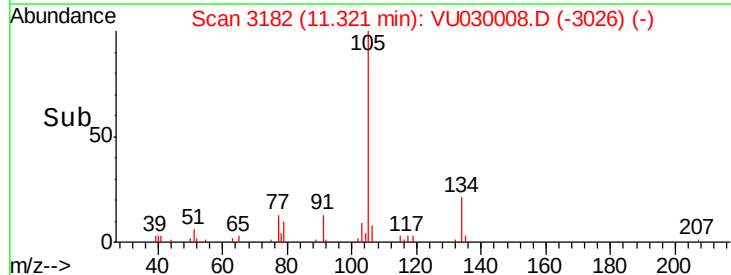
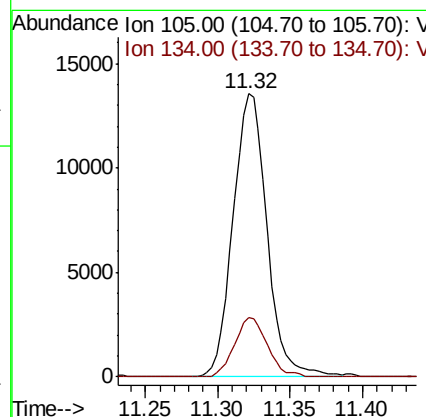
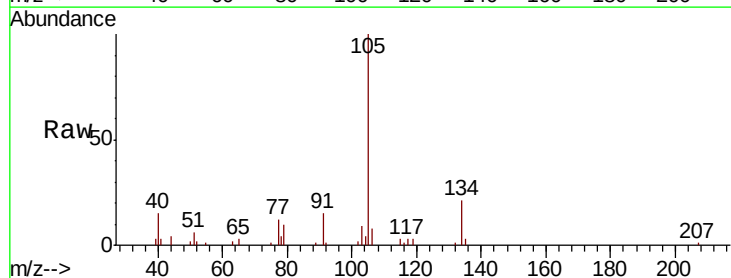
Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT1-2019

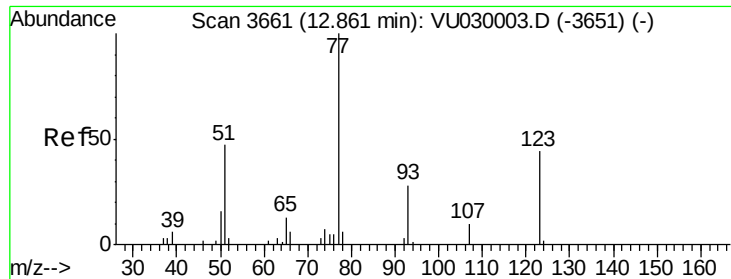
Tgt Ion:105 Resp: 15737
 Ion Ratio Lower Upper
 105 100
 120 45.7 23.5 70.6



#79
 sec-Butylbenzene
 Concen: 0.261 ug/l
 RT: 11.32 min Scan# 3182
 Delta R.T. 0.00 min
 Lab File: VU030008.D
 Acq: 12 Mar 2019 15:52

Tgt Ion:105 Resp: 22032
 Ion Ratio Lower Upper
 105 100
 134 20.3 16.1 24.1





#80

Nitrobenzene

Concen: 0.519 ug/l

RT: 12.66 min Scan# 3598

Delta R.T. -0.20 min

Lab File: VU030008.D

Acq: 12 Mar 2019 15:52

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

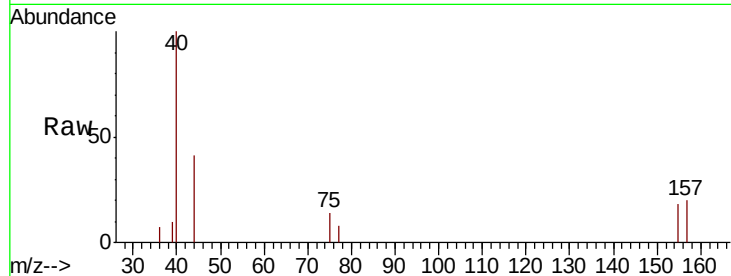
Tgt Ion: 77 Resp: 141

Ion Ratio Lower Upper

77 100

123 0.0 19.9 70.5#

65 0.0 10.8 13.8#



Abundance Ion 77.00 (76.70 to 77.70): VU030003.D (-3651) (-)

Ion 123.00 (122.70 to 123.70): VU030003.D (-3651) (-)

Ion 65.00 (64.70 to 65.70): VU030003.D (-3651) (-)

12.66

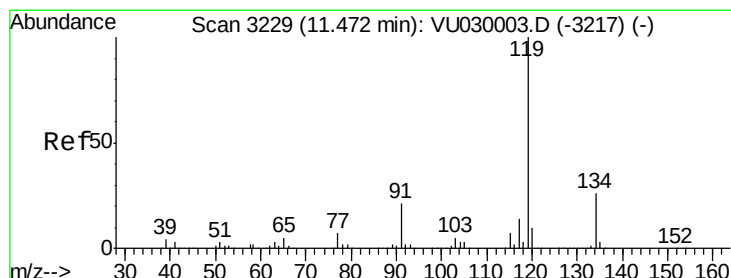
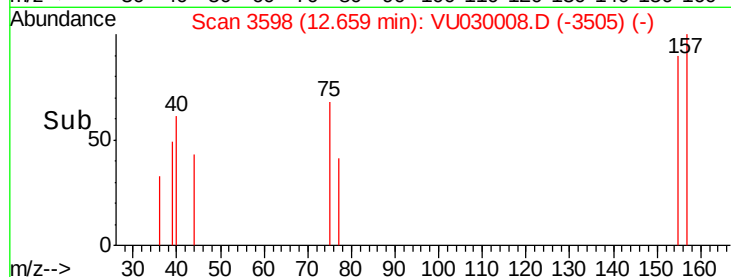
157

75

40

12.64 12.66 12.68

Time-->



#81

p-Isopropyltoluene

Concen: 0.252 ug/l

RT: 11.48 min Scan# 3230

Delta R.T. 0.00 min

Lab File: VU030008.D

Acq: 12 Mar 2019 15:52

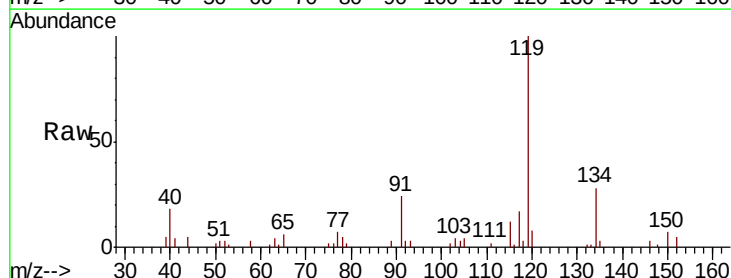
Tgt Ion: 119 Resp: 17831

Ion Ratio Lower Upper

119 100

134 27.5 21.2 31.8

91 22.4 17.0 25.6



Abundance Ion 119.00 (118.70 to 119.70): VU030003.D (-3217) (-)

Ion 134.00 (133.70 to 134.70): VU030003.D (-3217) (-)

Ion 91.00 (90.70 to 91.70): VU030003.D (-3217) (-)

11.48

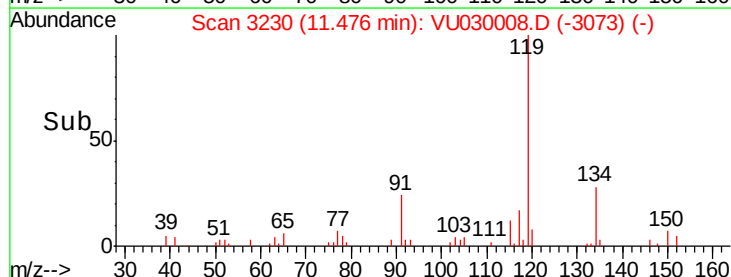
150

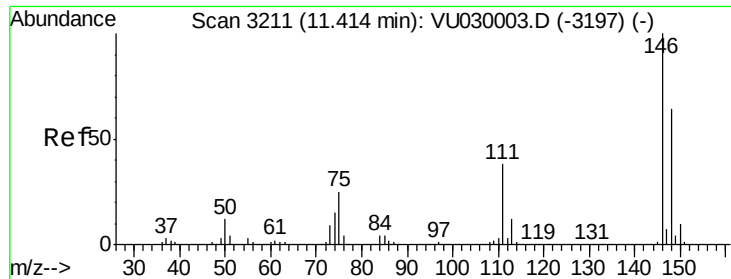
134

91

11.40 11.45 11.50 11.55

Time-->

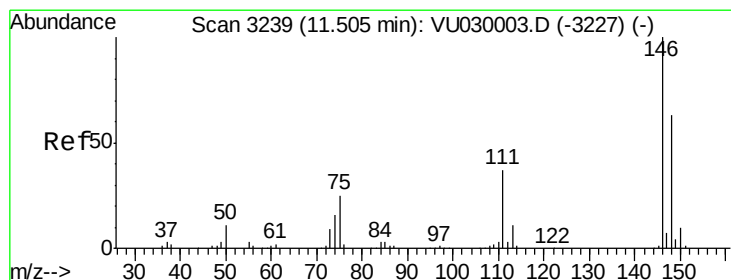
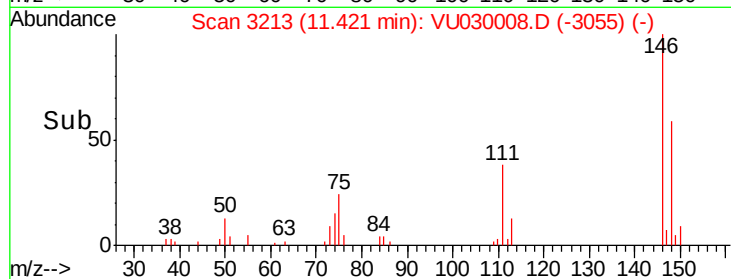
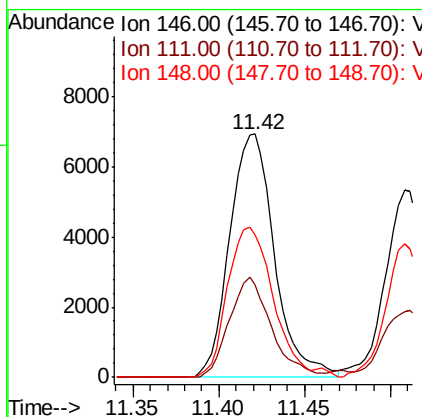
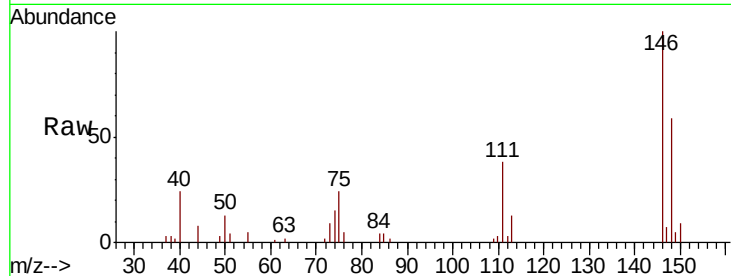




#82
 1,3-Dichlorobenzene
 Concen: 0.315 ug/l
 RT: 11.42 min Scan# 3213
 Delta R.T. 0.01 min
 Lab File: VU030008.D
 Acq: 12 Mar 2019 15:52

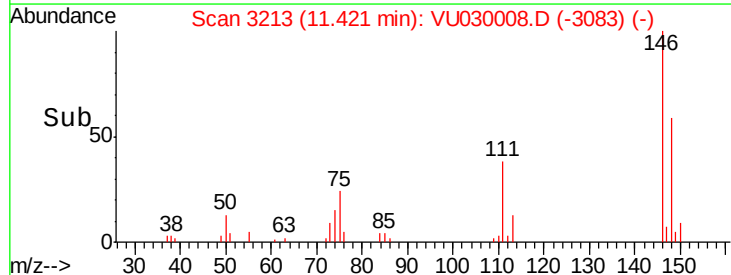
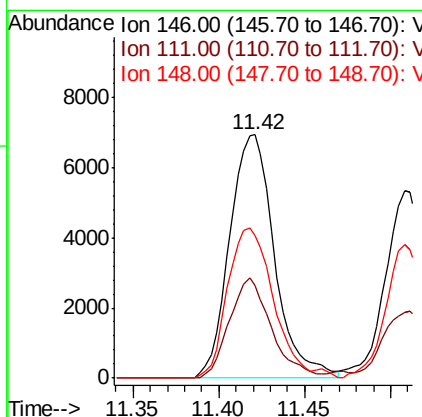
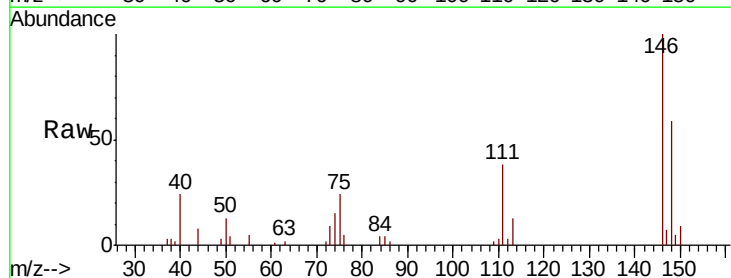
Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT1-2019

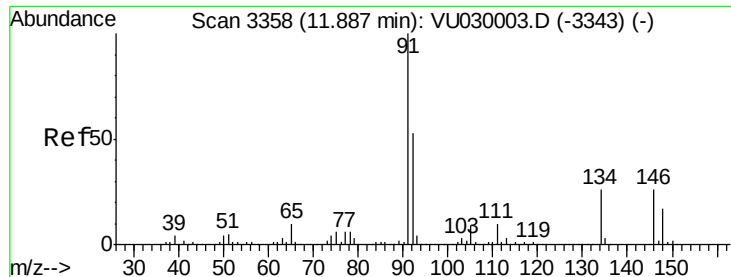
Tgt Ion:146 Resp: 12583
 Ion Ratio Lower Upper
 146 100
 111 38.4 30.3 45.5
 148 63.5 51.1 76.7



#83
 1,4-Dichlorobenzene
 Concen: 0.313 ug/l
 RT: 11.42 min Scan# 3213
 Delta R.T. -0.08 min
 Lab File: VU030008.D
 Acq: 12 Mar 2019 15:52

Tgt Ion:146 Resp: 12583
 Ion Ratio Lower Upper
 146 100
 111 38.4 29.3 43.9
 148 63.5 50.6 76.0





#84

n-Butylbenzene

Concen: 0.232 ug/l

RT: 11.89 min Scan# 3359

Delta R.T. 0.00 min

Lab File: VU030008.D

Acq: 12 Mar 2019 15:52

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

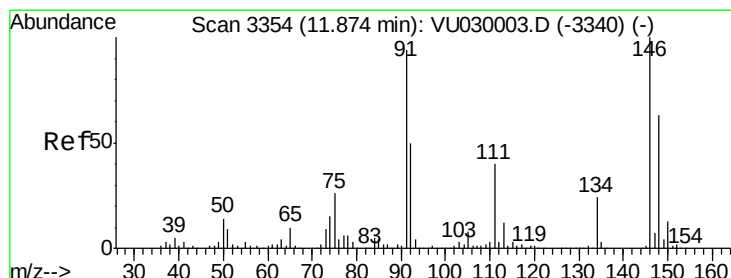
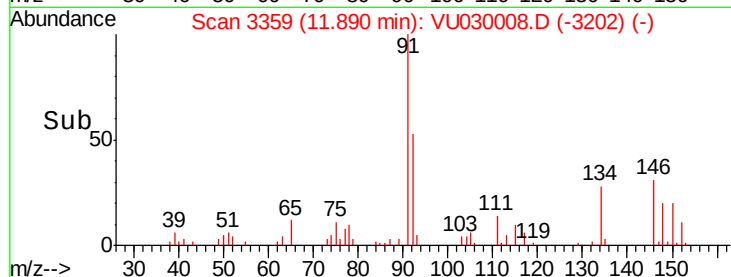
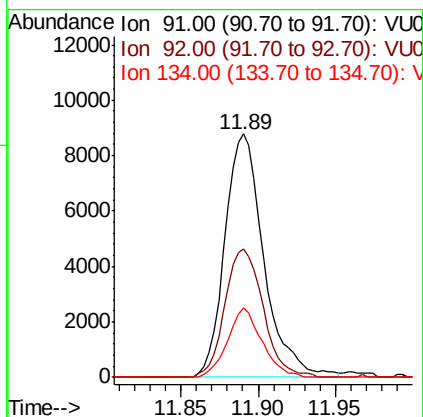
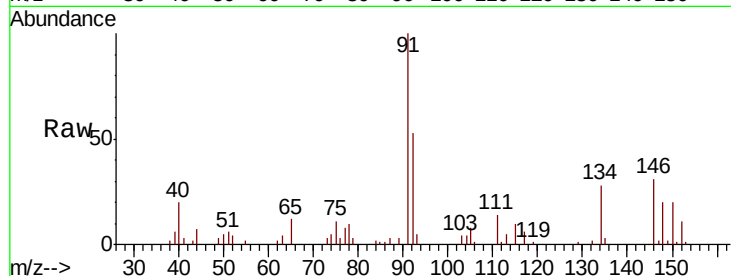
Tgt Ion: 91 Resp: 15303

Ion Ratio Lower Upper

91 100

92 51.8 42.4 63.6

134 25.1 21.4 32.0



#85

1,2-Dichlorobenzene

Concen: 0.234 ug/l

RT: 11.88 min Scan# 3356

Delta R.T. 0.01 min

Lab File: VU030008.D

Acq: 12 Mar 2019 15:52

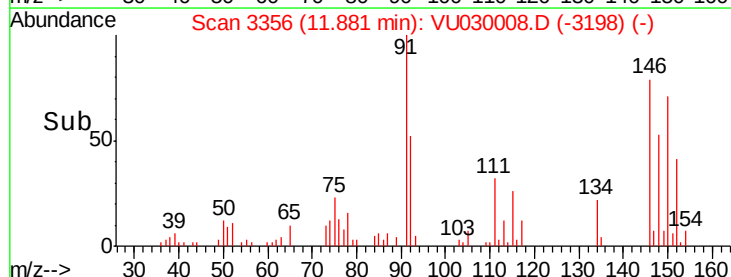
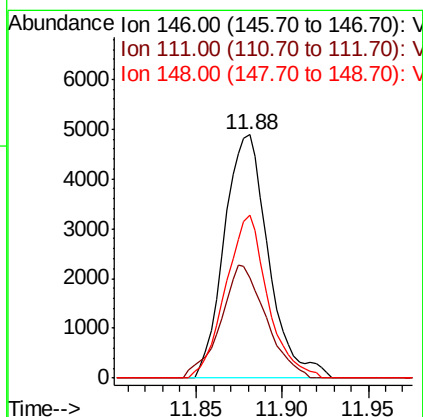
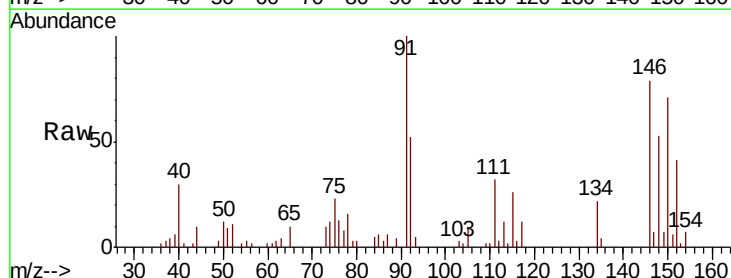
Tgt Ion: 146 Resp: 8720

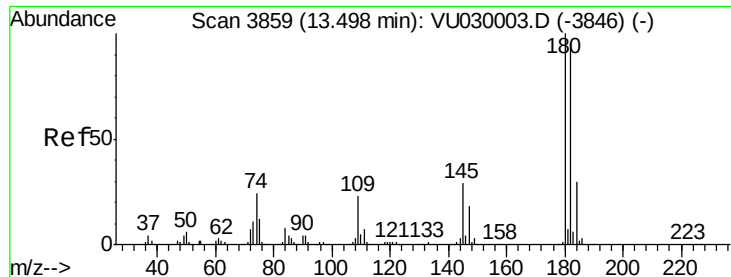
Ion Ratio Lower Upper

146 100

111 47.3 19.9 59.7

148 64.0 31.7 95.1





#87

1,2,4-Trichlorobenzene

Concen: 0.210 ug/l

RT: 13.50 min Scan# 3861

Delta R.T. 0.01 min

Lab File: VU030008.D

Acq: 12 Mar 2019 15:52

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT1-2019

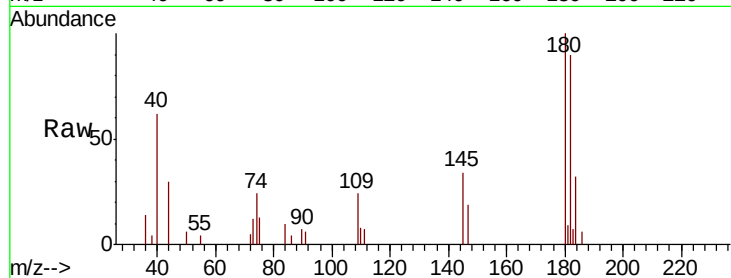
Tgt Ion:180 Resp: 5650

Ion Ratio Lower Upper

180 100

182 87.7 76.2 114.2

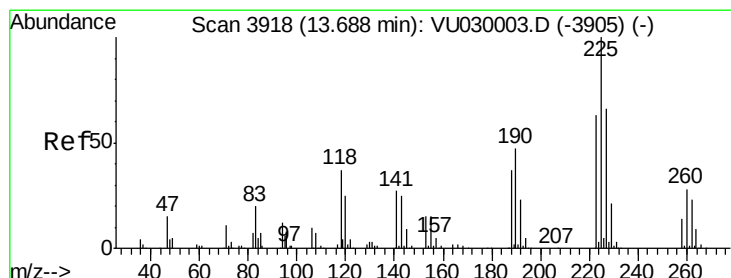
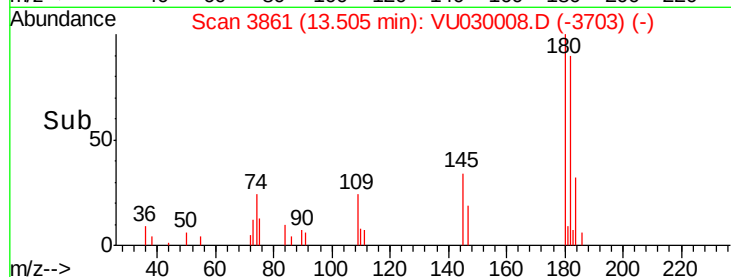
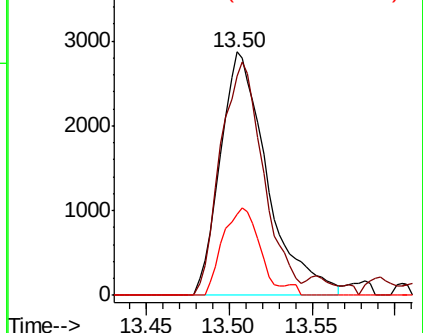
145 28.1 23.0 34.6



Abundance Ion 179.70 (179.40 to 180.40): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#88

Hexachlorobutadiene

Concen: 0.478 ug/l

RT: 13.69 min Scan# 3919

Delta R.T. 0.00 min

Lab File: VU030008.D

Acq: 12 Mar 2019 15:52

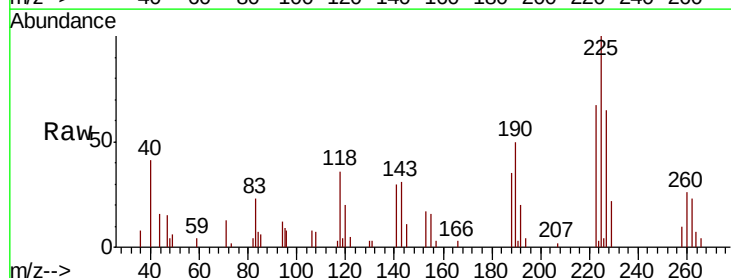
Tgt Ion:225 Resp: 6959

Ion Ratio Lower Upper

225 100

223 69.7 50.7 76.1

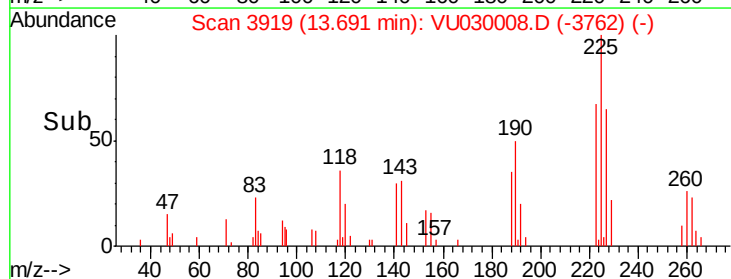
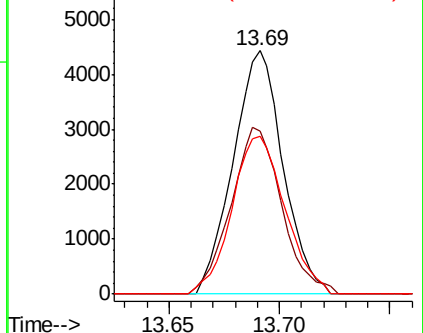
227 69.0 52.6 78.8

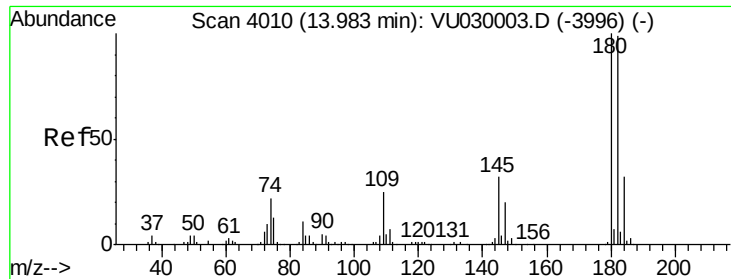


Abundance Ion 224.60 (224.30 to 225.30): V

Ion 222.60 (222.30 to 223.30): V

Ion 226.60 (226.30 to 227.30): V

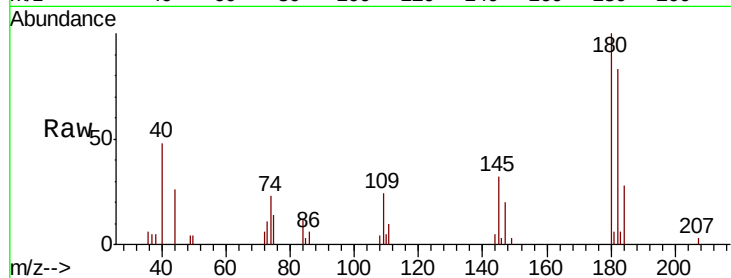




#90
 1,2,3-Trichlorobenzene
 Concen: 0.272 ug/l
 RT: 13.99 min Scan# 4011
 Delta R.T. 0.00 min
 Lab File: VU030008.D
 Acq: 12 Mar 2019 15:52

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

Tgt Ion	Resp	Lower	Upper
180	6625		
182	98.7	77.6	116.4
145	34.4	24.7	37.1



Abundance Ion 179.70 (179.40 to 180.40): V
 Ion 181.70 (181.40 to 182.40): V
 Ion 144.80 (144.50 to 145.50): V

