

Data File : VU033370.D
Acq On : 23 Jul 2019 10:06
Operator : JC/SP
Sample : K3591-07
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

Quant Time: Jul 24 02:49:37 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\524U072219DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Tue Jul 23 03:43:51 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	5.72	96	27906	1.00	ug/l	0.00

System Monitoring Compounds

57) 4-Bromofluorobenzene	10.29	95	9372	0.86	ug/l	0.00
Spiked Amount 1.000			Recovery	=	86.00%	
68) 1,2-Dichlorobenzene-d4	11.85	152	10498	0.93	ug/l	0.00
Spiked Amount 1.000			Recovery	=	93.00%	

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	3385	0.293 ug/l	93
3) Chloromethane	1.32	50	3904	0.306 ug/l	100
4) Vinyl Chloride	1.40	62	3487	0.245 ug/l	96
5) Bromomethane	1.62	94	3034	0.339 ug/l	93
6) Chloroethane	1.69	64	2599	0.260 ug/l	97
7) Trichlorofluoromethane	1.88	101	4946	0.253 ug/l	88
8) 1,1,2-Trichloro-1,2,2-trif	2.27	101	2756	0.274 ug/l	95
9) 1,1-Dichloroethene	2.27	96	2742	0.277 ug/l	91
11) Allyl Chloride	2.58	41	4882	0.298 ug/l	91
12) Acrylonitrile	2.93	53	1361	0.492 ug/l #	80
13) Acetone	2.33	43	4191	1.775 ug/l	97
14) Carbon Disulfide	2.46	76	10193	0.271 ug/l	97
15) Methylene Chloride	2.68	84	4530	0.339 ug/l	92
16) trans-1,2-Dichloroethene	2.96	96	3530	0.300 ug/l	89
17) 1,1-Dichloroethane	3.42	63	4336	0.274 ug/l #	93
19) Cyclohexane	4.96	56	2589	0.223 ug/l	87
20) Methylcyclohexane	6.39	83	2777	0.238 ug/l #	70
21) 2,2-Dichloropropane	4.21	77	4320	0.323 ug/l #	72
22) cis-1,2-Dichloroethene	4.20	96	2209	0.248 ug/l	69
23) Diethyl Ether	2.09	59	2204	0.258 ug/l #	80
25) Methyl tert-Butyl Ether	2.98	73	6855	0.240 ug/l	97
26) Bromochloromethane	4.52	128	1001	0.255 ug/l	89
27) Chloroform	4.65	83	6369	0.353 ug/l	88
28) 1,1,1-Trichloroethane	4.89	97	3416	0.244 ug/l	95
29) 1,1-Dichloropropene	5.11	75	2759	0.239 ug/l	95
30) Carbon Tetrachloride	5.11	117	2899	0.236 ug/l	99
31) Isopropyl Ether	3.56	45	5351	0.268 ug/l	97
32) Ethyl-t-butyl ether	4.05	59	4898	0.255 ug/l	95
33) Tert-Amyl methyl ether	5.56	73	4043	0.234 ug/l #	92
34) Propionitrile	4.35	54	349	0.540 ug/l #	46
35) Benzene	5.37	78	8483	0.255 ug/l	99
36) 1,2-Dichloroethane	5.39	62	2666	0.240 ug/l #	87
37) Trichloroethene	6.16	130	2071	0.235 ug/l	88
38) 1,2-Dichloropropane	6.41	63	1921	0.209 ug/l #	88
42) 1-Chlorobutane	5.04	56	3683	0.238 ug/l	88
43) Dibromomethane	6.54	93	1110	0.218 ug/l #	85
44) Bromodichloromethane	6.74	83	3480	0.284 ug/l #	88
45) 4-Methyl-2-Pentanone	7.45	43	5786	1.115 ug/l #	86
46) t-1,4-Dichloro-2-butene	10.48	75	1245	0.594 ug/l #	66
47) Methyl methacrylate	6.61	69	1253	0.323 ug/l #	82
49) Toluene	7.62	92	4149	0.217 ug/l	93

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Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Tue Jul 23 03:43:51 2019
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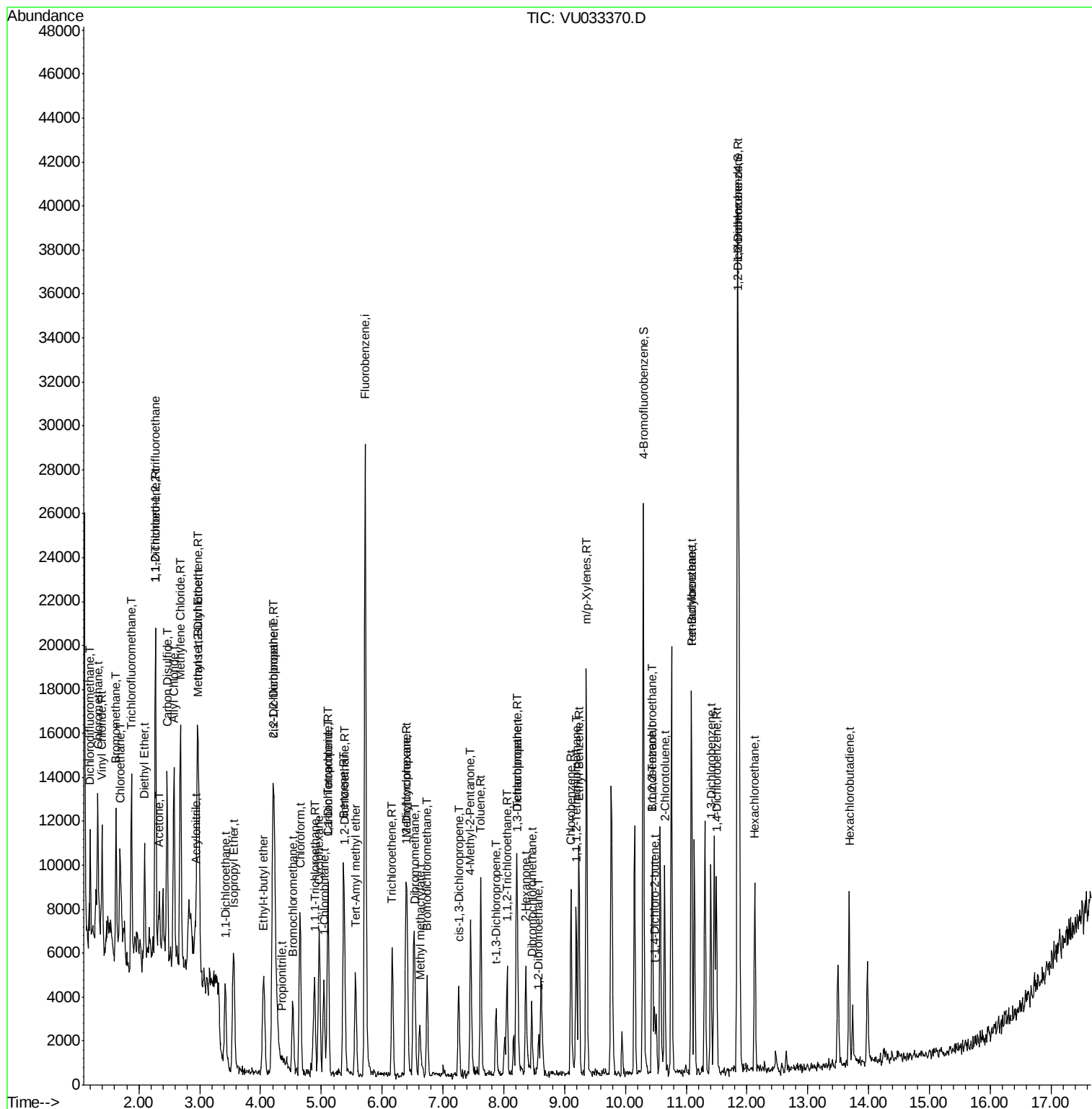
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) t-1,3-Dichloropropene	7.87	75	2445	0.239	ug/l	96
51) cis-1,3-Dichloropropene	7.26	75	2692	0.223	ug/l	99
52) 1,1,2-Trichloroethane	8.05	97	1886	0.277	ug/l	93
53) 1,3-Dichloropropane	8.23	76	2652	0.231	ug/l	93
54) 2-Hexanone	8.36	43	3566	0.976	ug/l	90
55) Dibromochloromethane	8.46	129	1808	0.228	ug/l	88
56) 1,2-Dibromoethane	8.58	107	1482	0.234	ug/l	97
58) Tetrachloroethene	8.22	164	2044	0.256	ug/l	89
59) Chlorobenzene	9.11	112	4652	0.213	ug/l	98
60) 1,1,1,2-Tetrachloroethane	9.19	131	2117	0.255	ug/l	99
61) Pentachloroethane	11.09	117	1639	0.240	ug/l	97
62) Hexachloroethane	12.13	117	1644	0.249	ug/l	96
63) Ethyl Benzene	9.23	91	7332	0.209	ug/l	98
64) m/p-Xylenes	9.36	106	5369	0.382	ug/l	97
70) 1,1,2,2-Tetrachloroethane	10.44	83	2028	0.225	ug/l #	92
72) Bromobenzene	10.45	156	1874	0.205	ug/l	92
74) 2-Chlorotoluene	10.65	126	1807	0.201	ug/l	88
77) tert-Butylbenzene	11.09	119	6038	0.206	ug/l	95
82) 1,3-Dichlorobenzene	11.40	146	4104	0.212	ug/l	95
83) 1,4-Dichlorobenzene	11.49	146	4218	0.220	ug/l	99
85) 1,2-Dichlorobenzene	11.86	146	4057	0.223	ug/l	92
88) Hexachlorobutadiene	13.68	225	1602	0.240	ug/l	97

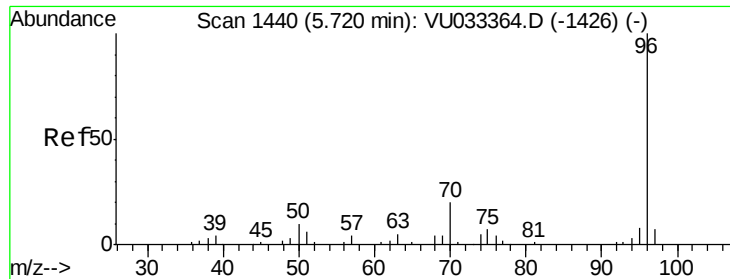
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 5.72 min Scan# 1440

Delta R.T. -0.00 min

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Instrument :

MSVOA_U

ClientSampleId :

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Tgt Ion: 96 Resp: 27906

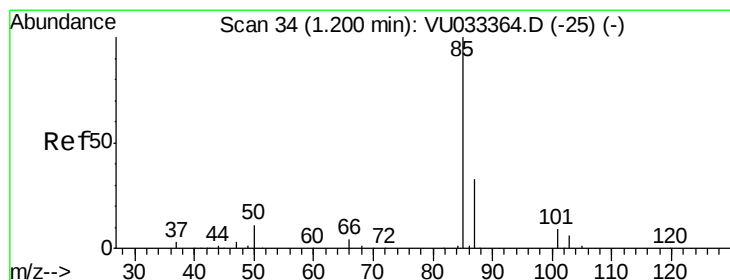
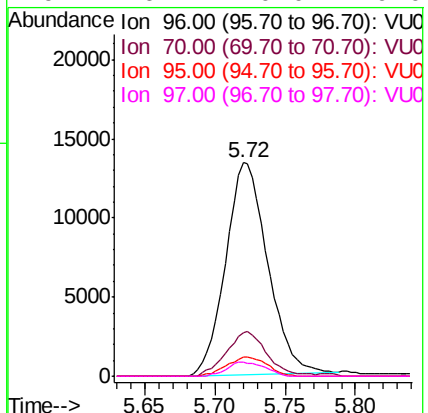
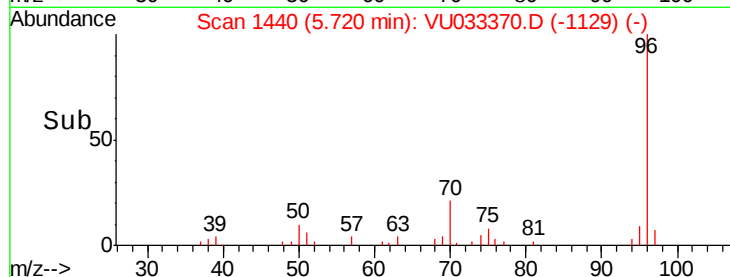
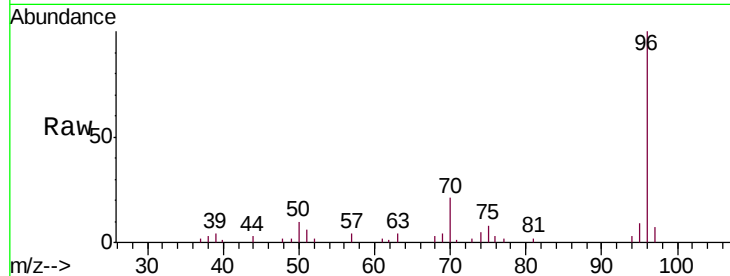
Ion Ratio Lower Upper

96 100

70 19.2 16.4 24.6

95 8.8 6.7 10.1

97 6.1 0.0 0.0#



#2

Dichlorodifluoromethane

Concen: 0.293 ug/l

RT: 1.20 min Scan# 34

Delta R.T. -0.00 min

Lab File: VU033370.D

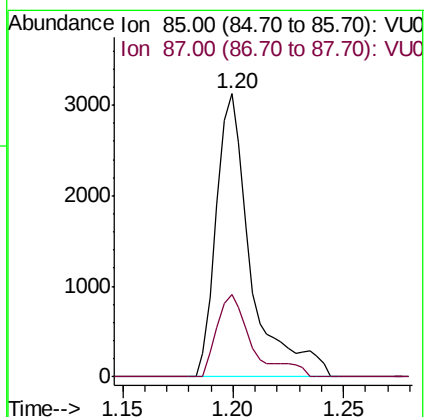
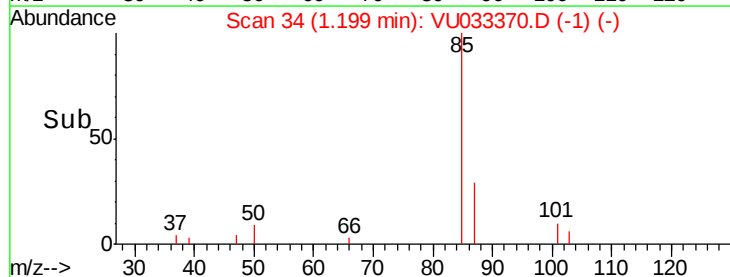
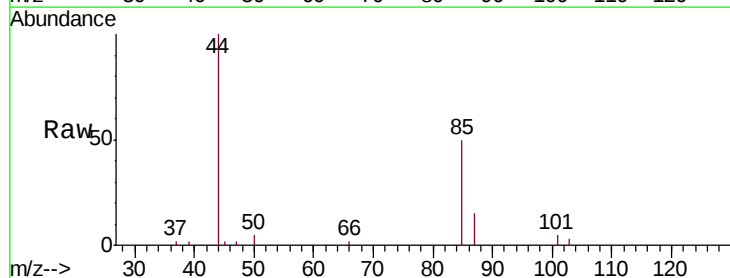
Acq: 23 Jul 2019 10:06

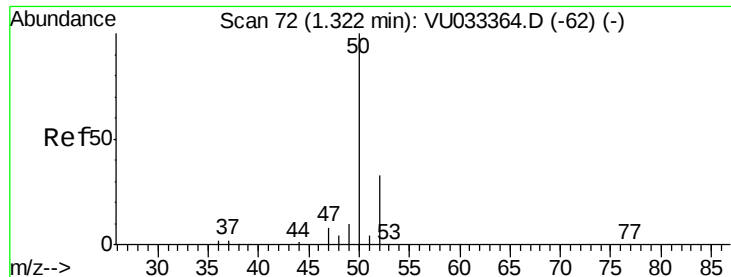
Tgt Ion: 85 Resp: 3385

Ion Ratio Lower Upper

85 100

87 29.3 16.6 49.7





#3

Chloromethane

Concen: 0.306 ug/l

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU033370.D

Acq: 23 Jul 2019 10:06

Instrument :

MSVOA_U

ClientSampleId :

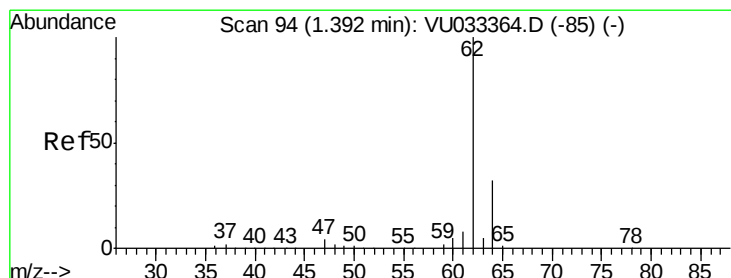
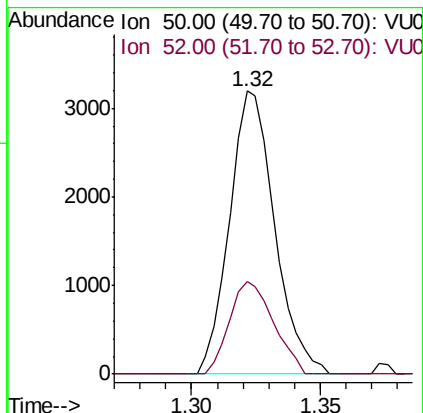
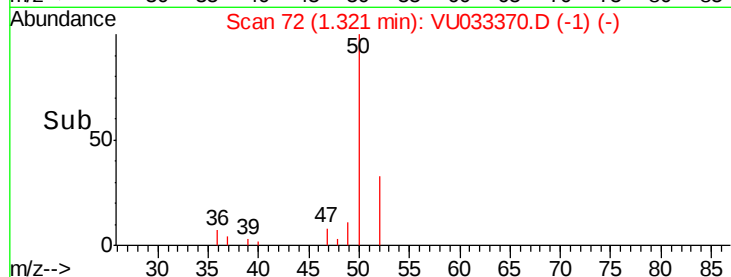
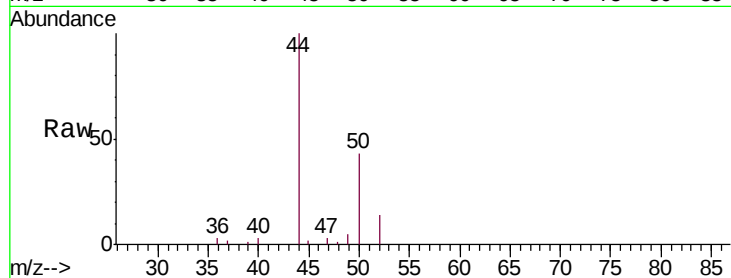
LOD-MDL-WATER-01-QT3-2019

Tgt Ion: 50 Resp: 3904

Ion Ratio Lower Upper

50 100

52 32.6 26.1 39.1



#4

Vinyl Chloride

Concen: 0.245 ug/l

RT: 1.40 min Scan# 95

Delta R.T. 0.00 min

Lab File: VU033370.D

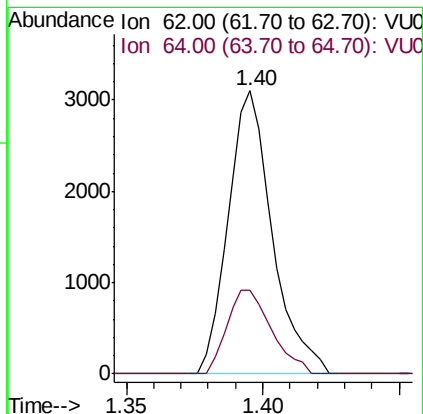
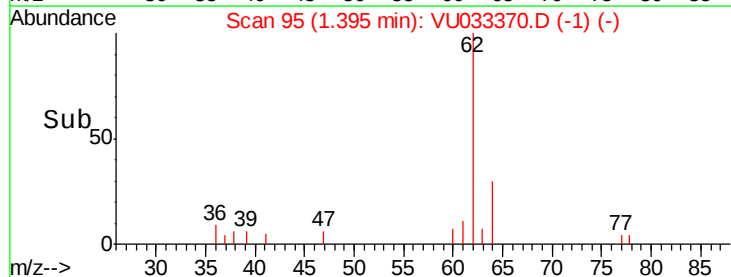
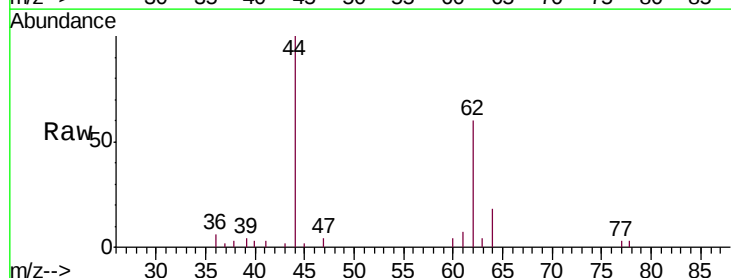
Acq: 23 Jul 2019 10:06

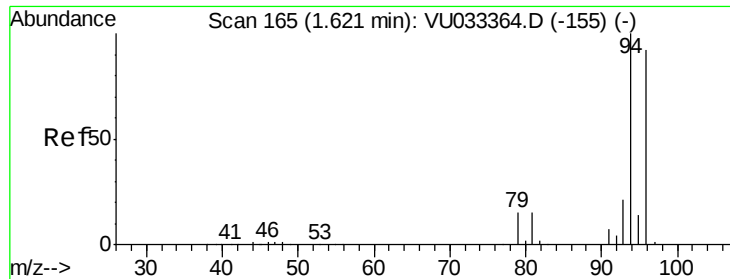
Tgt Ion: 62 Resp: 3487

Ion Ratio Lower Upper

62 100

64 29.7 25.6 38.4

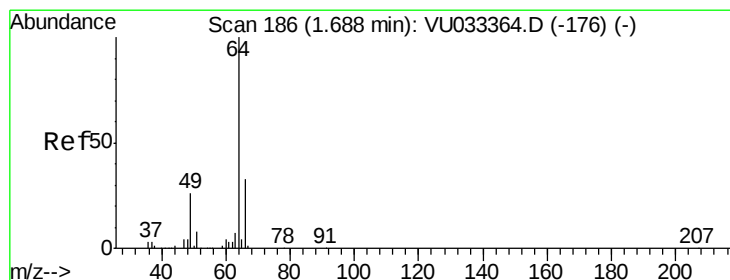
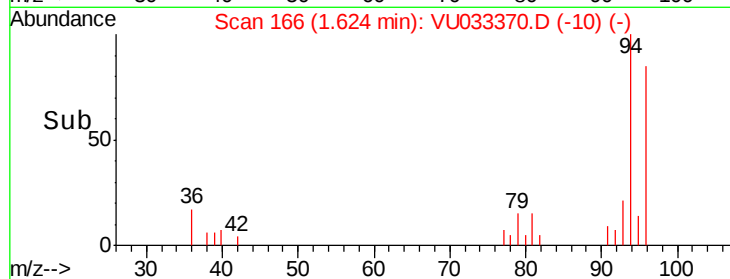
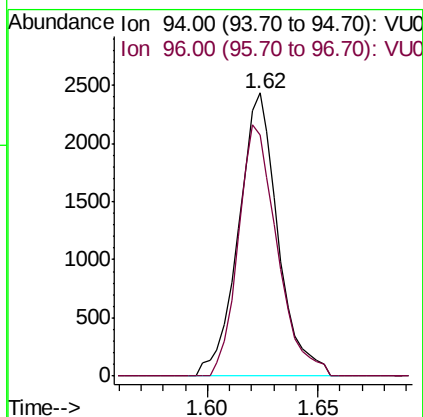
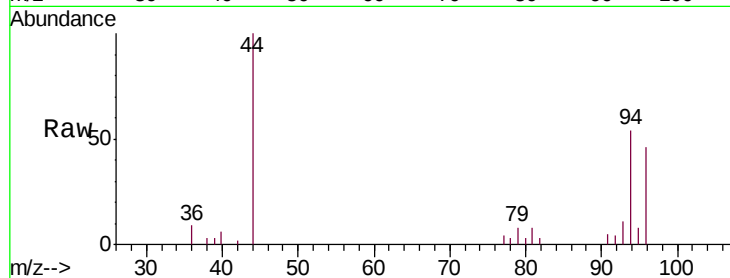




#5
Bromomethane
Concen: 0.339 ug/l
RT: 1.62 min Scan# 166
Delta R.T. 0.00 min
Lab File: VU033370.D
Acq: 23 Jul 2019 10:06

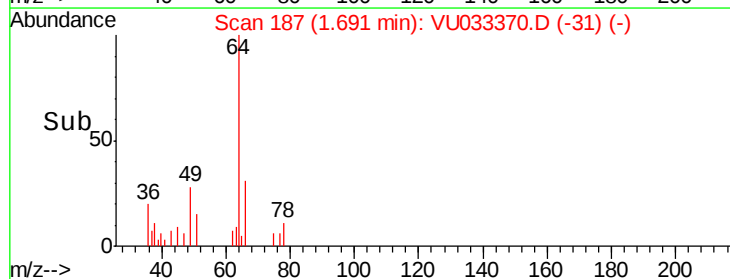
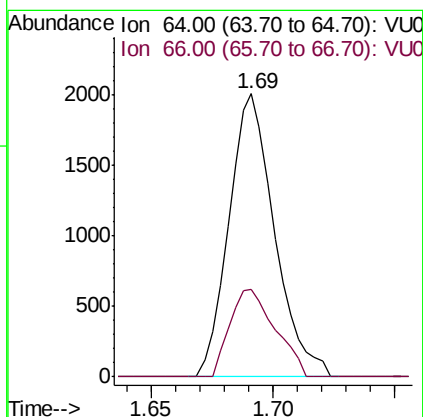
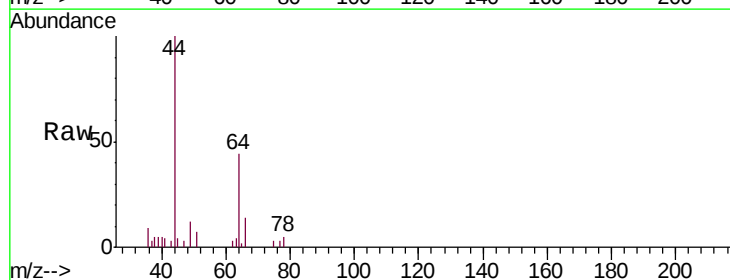
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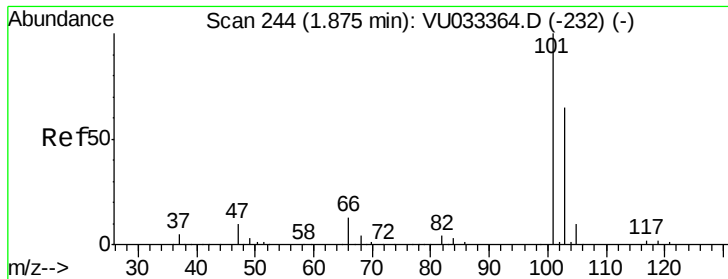
Tgt Ion: 94 Resp: 3034
Ion Ratio Lower Upper
94 100
96 85.3 73.2 109.8



#6
Chloroethane
Concen: 0.260 ug/l
RT: 1.69 min Scan# 187
Delta R.T. 0.00 min
Lab File: VU033370.D
Acq: 23 Jul 2019 10:06

Tgt Ion: 64 Resp: 2599
Ion Ratio Lower Upper
64 100
66 31.1 26.4 39.6





#7

Trichlorofluoromethane

Concen: 0.253 ug/l

RT: 1.88 min Scan# 245

Delta R.T. 0.00 min

Lab File: VU033370.D

Acq: 23 Jul 2019 10:06

Instrument :

MSVOA_U

ClientSampleId :

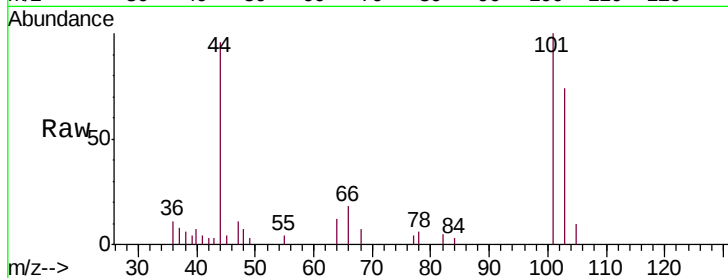
LOD-MDL-WATER-01-QT3-2019

Tgt Ion:101 Resp: 4946

Ion Ratio Lower Upper

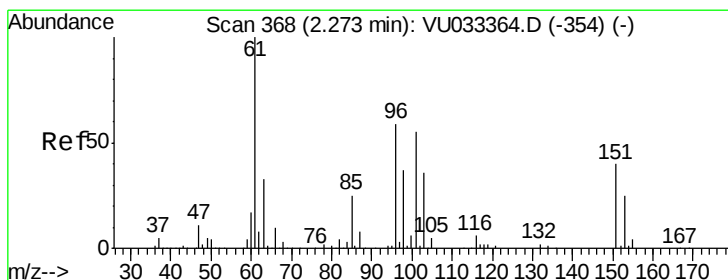
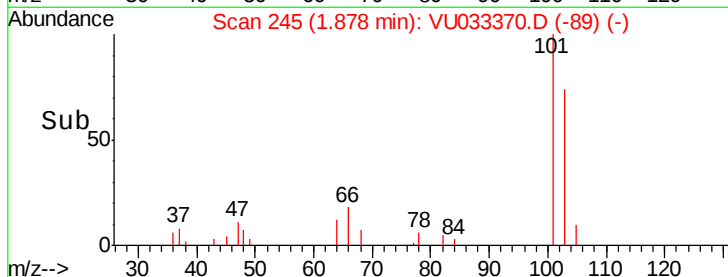
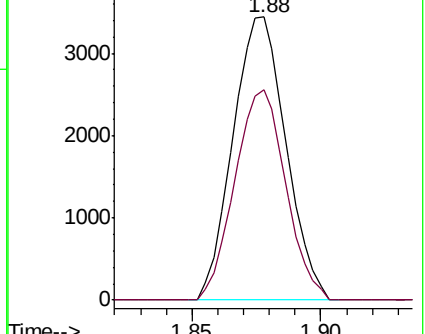
101 100

103 74.4 52.2 78.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.274 ug/l

RT: 2.27 min Scan# 368

Delta R.T. -0.00 min

Lab File: VU033370.D

Acq: 23 Jul 2019 10:06

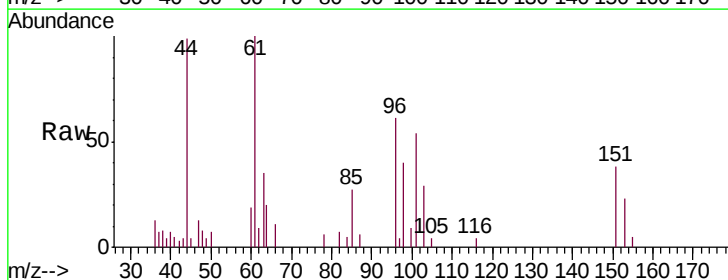
Tgt Ion:101 Resp: 2756

Ion Ratio Lower Upper

101 100

85 42.5 37.5 56.3

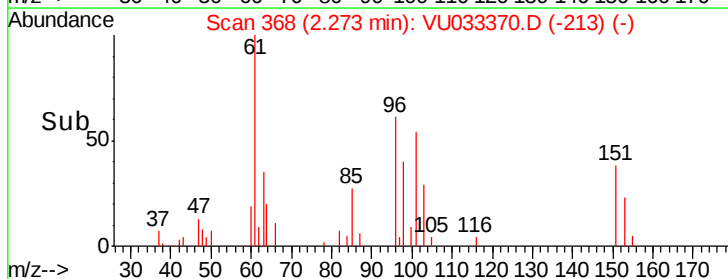
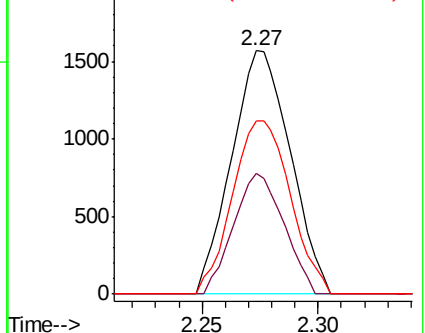
151 70.2 58.3 87.5

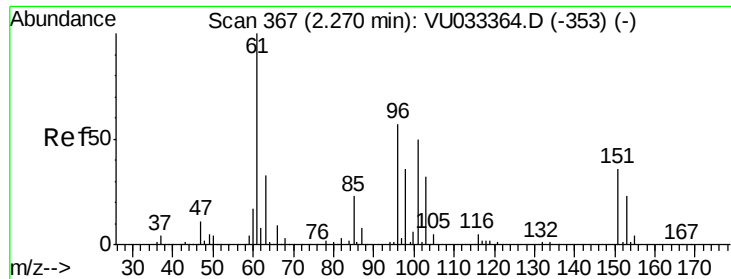


Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V

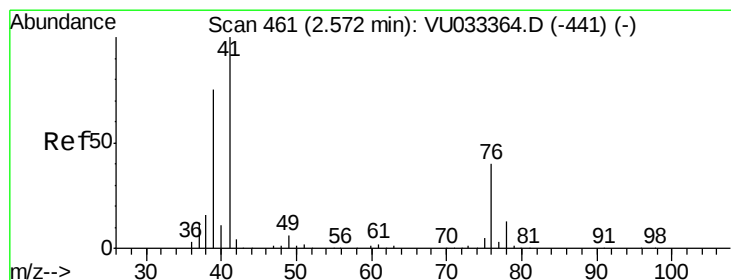
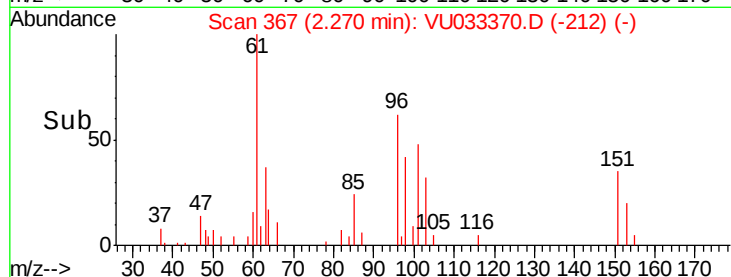
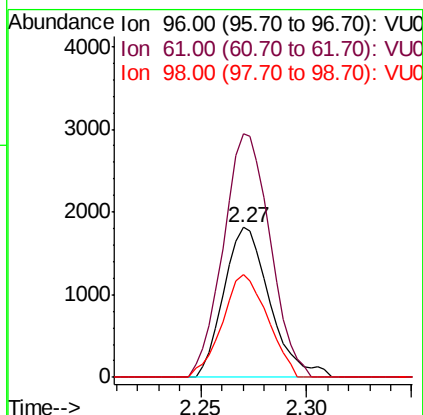
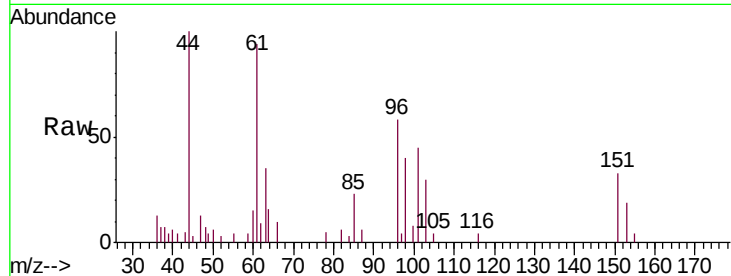




#9
 1,1-Dichloroethene
 Concen: 0.277 ug/l
 RT: 2.27 min Scan# 367
 Delta R.T. -0.00 min
 Lab File: VU033370.D
 Acq: 23 Jul 2019 10:06

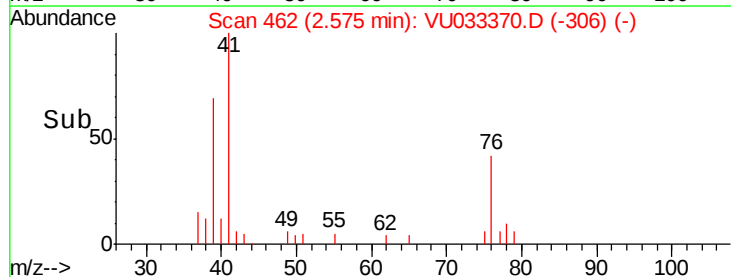
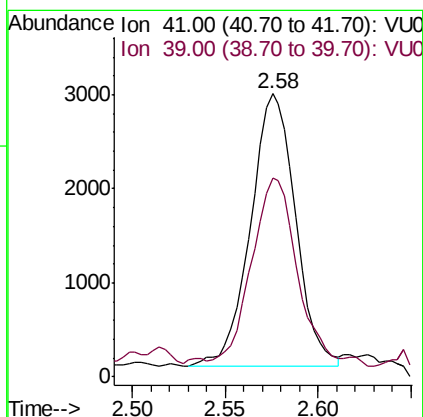
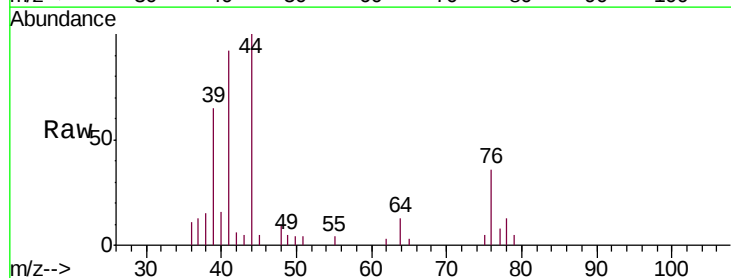
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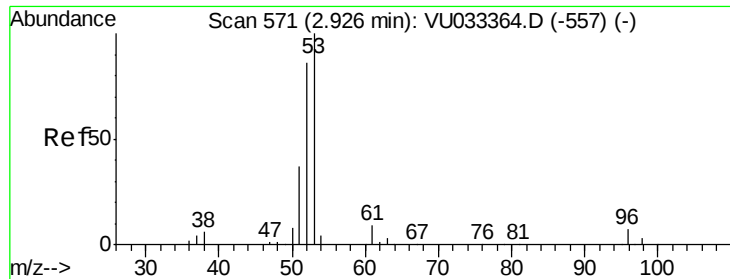
Tgt Ion: 96 Resp: 2742
 Ion Ratio Lower Upper
 96 100
 61 162.6 0.0 525.6
 98 68.9 0.0 126.4



#11
 Allyl Chloride
 Concen: 0.298 ug/l
 RT: 2.58 min Scan# 462
 Delta R.T. 0.00 min
 Lab File: VU033370.D
 Acq: 23 Jul 2019 10:06

Tgt Ion: 41 Resp: 4882
 Ion Ratio Lower Upper
 41 100
 39 65.7 58.7 88.1





#12

Acrylonitrile

Concen: 0.492 ug/l

RT: 2.93 min Scan# 572

Delta R.T. 0.00 min

Lab File: VU033370.D

Acq: 23 Jul 2019 10:06

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

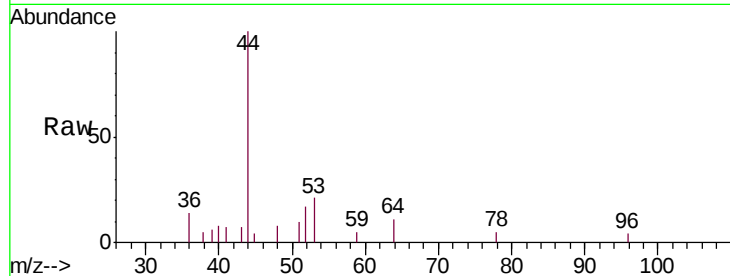
Tgt Ion: 53 Resp: 1361

Ion Ratio Lower Upper

53 100

52 107.6 69.8 104.8#

51 45.8 29.1 43.7#

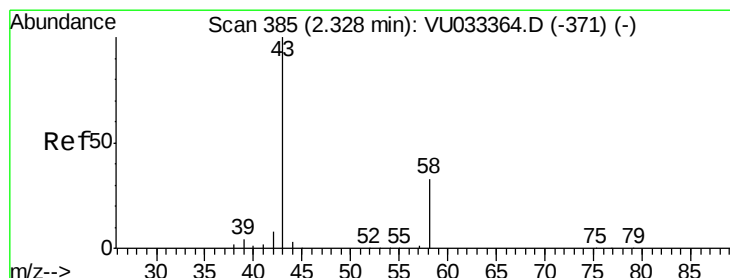
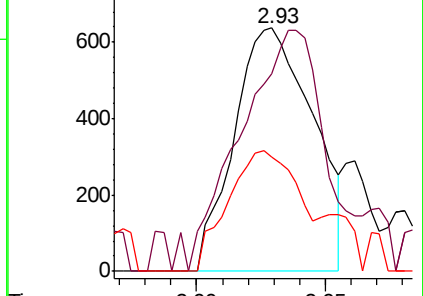
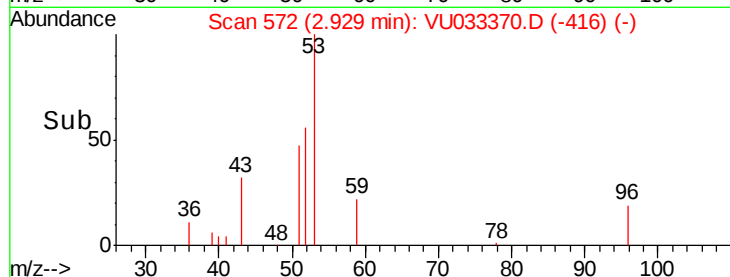


Abundance Ion 53.00 (52.70 to 53.70): VU033364.D (-557) (-)

Ion 52.00 (51.70 to 52.70): VU033364.D (-557) (-)

Ion 51.00 (50.70 to 51.70): VU033364.D (-557) (-)

Time-->



#13

Acetone

Concen: 1.775 ug/l

RT: 2.33 min Scan# 387

Delta R.T. 0.01 min

Lab File: VU033370.D

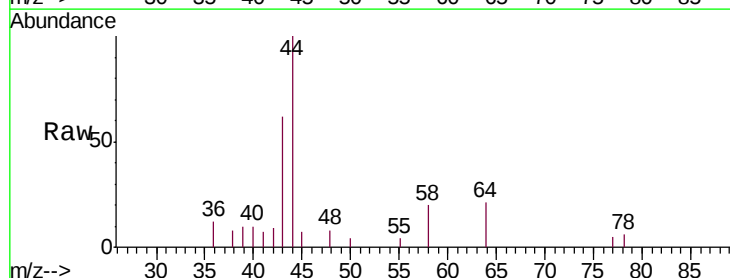
Acq: 23 Jul 2019 10:06

Tgt Ion: 43 Resp: 4191

Ion Ratio Lower Upper

43 100

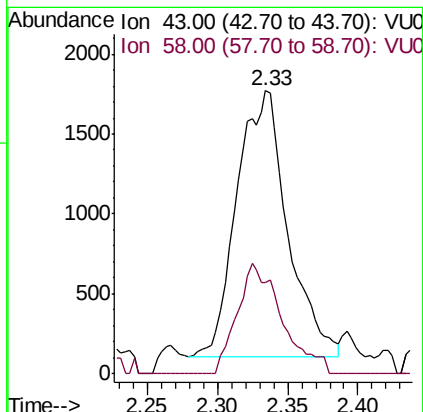
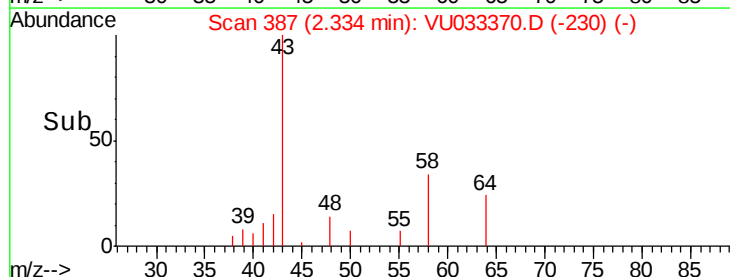
58 34.4 26.3 39.5

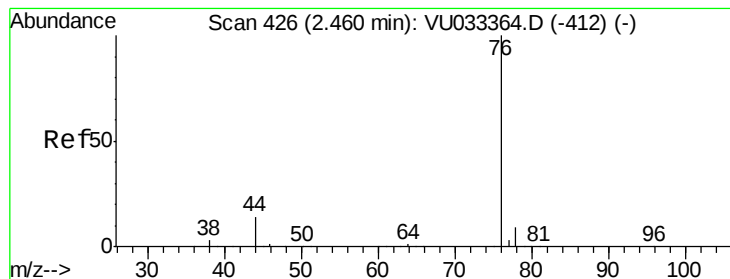


Abundance Ion 43.00 (42.70 to 43.70): VU033364.D (-371) (-)

Ion 58.00 (57.70 to 58.70): VU033364.D (-371) (-)

Time-->





#14

Carbon Disulfide

Concen: 0.271 ug/l

RT: 2.46 min Scan# 427

Delta R.T. 0.00 min

Lab File: VU033370.D

Acq: 23 Jul 2019 10:06

Instrument :

MSVOA_U

ClientSampleId :

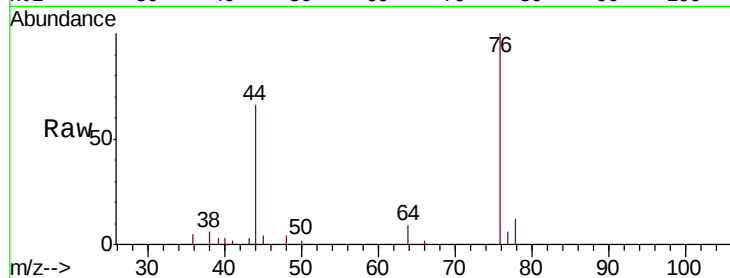
LOD-MDL-WATER-01-QT3-2019

Tgt Ion: 76 Resp: 10193

Ion Ratio Lower Upper

76 100

78 9.8 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VU033370.D (-271) (-)

Ion 78.00 (77.70 to 78.70): VU033370.D (-271) (-)

2.46

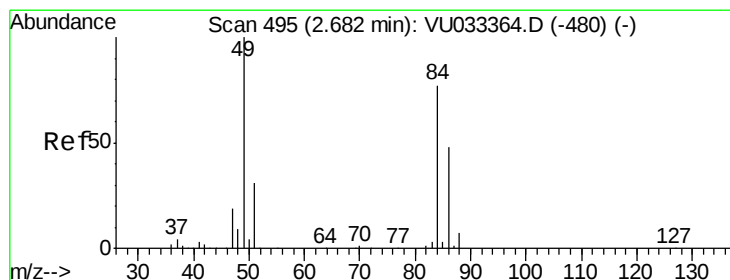
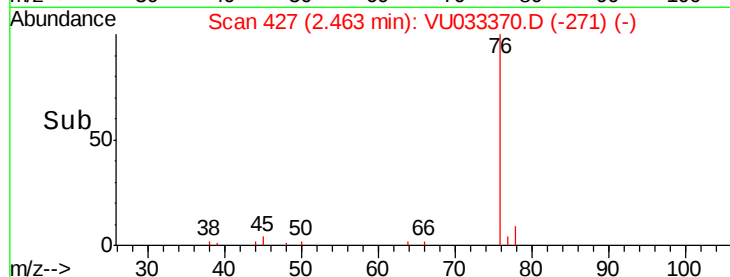
6000

4000

2000

0

Time-->



#15

Methylene Chloride

Concen: 0.339 ug/l

RT: 2.68 min Scan# 495

Delta R.T. -0.00 min

Lab File: VU033370.D

Acq: 23 Jul 2019 10:06

Tgt Ion: 84 Resp: 4530

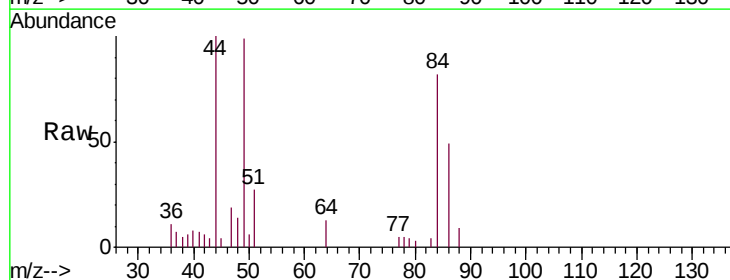
Ion Ratio Lower Upper

84 100

49 121.0 103.5 155.3

51 29.7 0.0 80.4

86 59.7 50.1 75.1



Abundance Ion 84.00 (83.70 to 84.70): VU033370.D (-340) (-)

Ion 49.00 (48.70 to 49.70): VU033370.D (-340) (-)

Ion 51.00 (50.70 to 51.70): VU033370.D (-340) (-)

Ion 86.00 (85.70 to 86.70): VU033370.D (-340) (-)

5000

4000

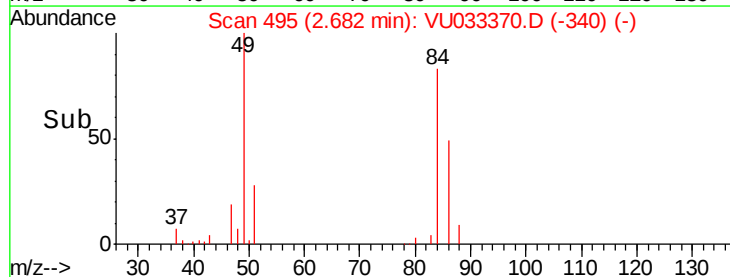
3000

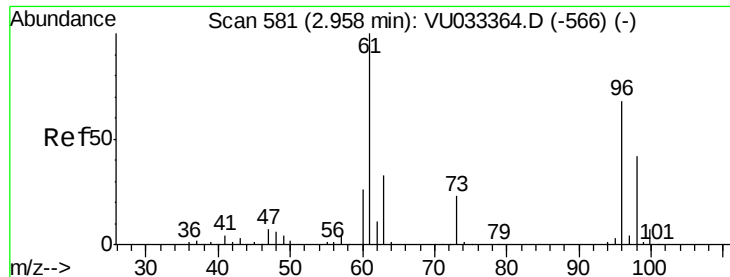
2000

1000

0

Time-->

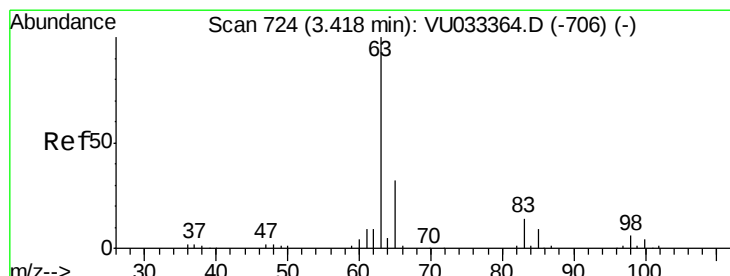
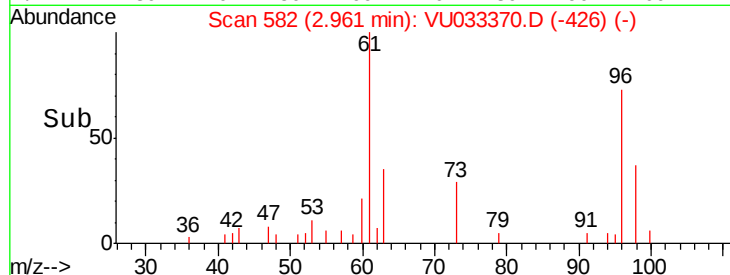
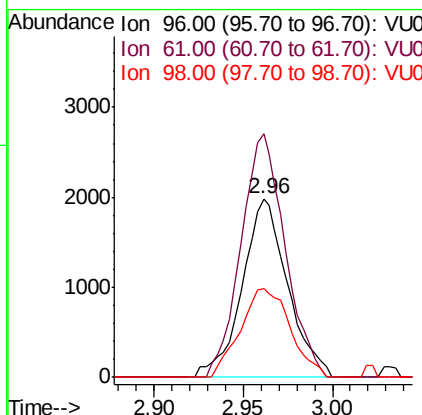
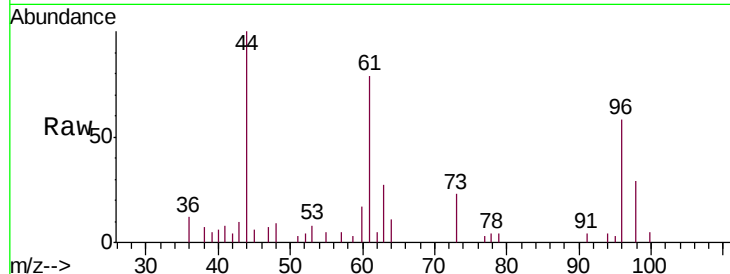




#16
 trans-1,2-Dichloroethene
 Concen: 0.300 ug/l
 RT: 2.96 min Scan# 582
 Delta R.T. 0.00 min
 Lab File: VU033370.D
 Acq: 23 Jul 2019 10:06

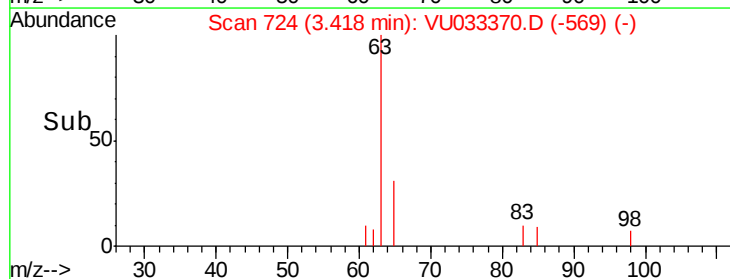
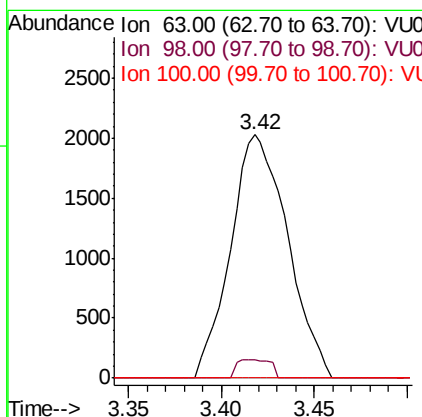
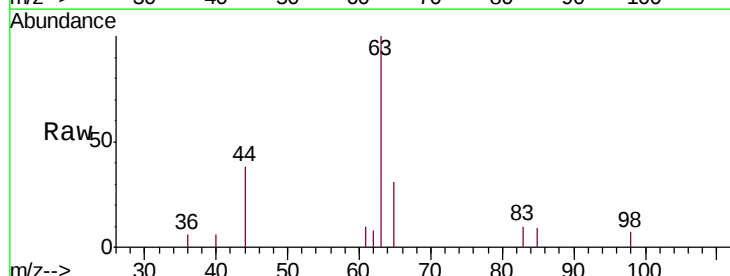
Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2019

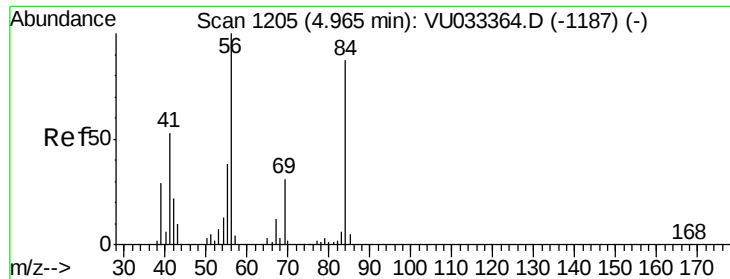
Tgt Ion: 96 Resp: 3530
 Ion Ratio Lower Upper
 96 100
 61 136.3 118.0 177.0
 98 49.8 49.4 74.2



#17
 1,1-Dichloroethane
 Concen: 0.274 ug/l
 RT: 3.42 min Scan# 724
 Delta R.T. -0.00 min
 Lab File: VU033370.D
 Acq: 23 Jul 2019 10:06

Tgt Ion: 63 Resp: 4336
 Ion Ratio Lower Upper
 63 100
 98 7.4 3.2 9.6
 100 0.0 2.1 6.2#

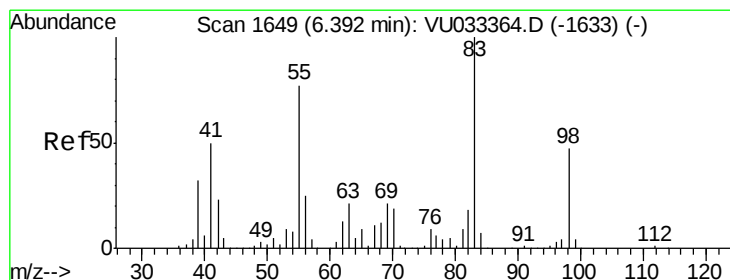
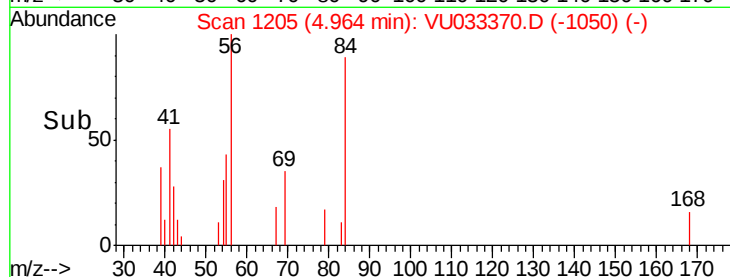
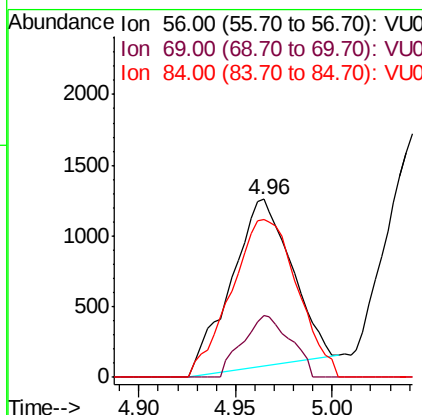
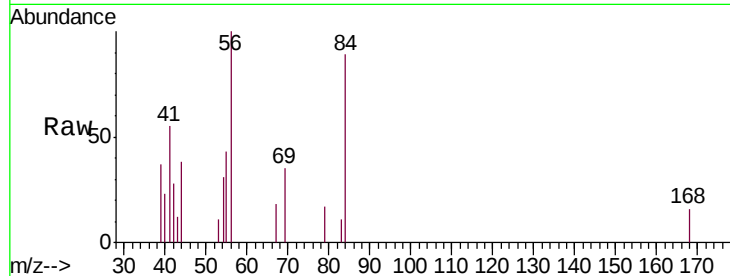




#19
Cyclohexane
Concen: 0.223 ug/l
RT: 4.96 min Scan# 1205
Delta R.T. -0.00 min
Lab File: VU033370.D
Acq: 23 Jul 2019 10:06

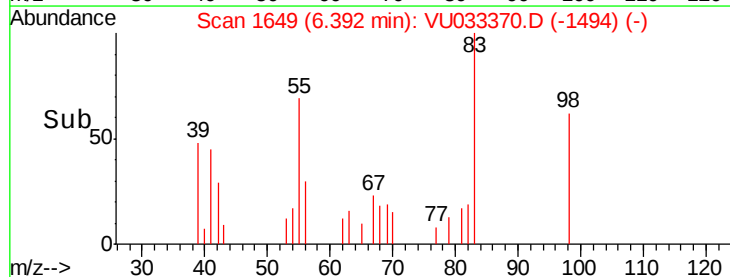
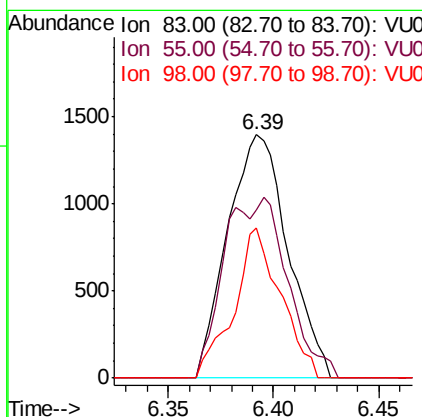
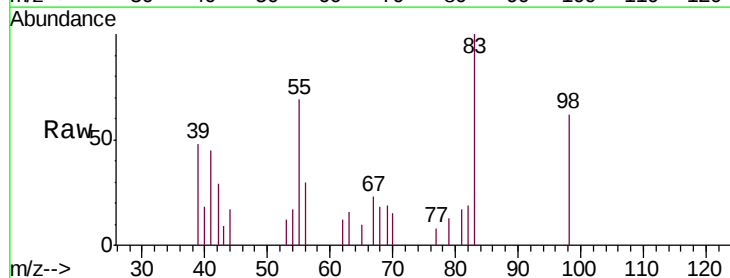
Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

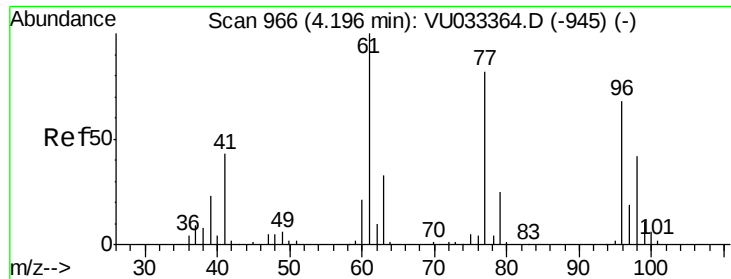
Tgt Ion: 56 Resp: 2589
Ion Ratio Lower Upper
56 100
69 29.0 25.0 37.4
84 102.3 69.8 104.6



#20
Methylcyclohexane
Concen: 0.238 ug/l
RT: 6.39 min Scan# 1649
Delta R.T. -0.00 min
Lab File: VU033370.D
Acq: 23 Jul 2019 10:06

Tgt Ion: 83 Resp: 2777
Ion Ratio Lower Upper
83 100
55 36.4 62.3 93.5#
98 47.5 37.4 56.0





#21

2,2-Dichloropropane

Concen: 0.323 ug/l

RT: 4.21 min Scan# 969

Delta R.T. 0.01 min

Lab File: VU033370.D

Acq: 23 Jul 2019 10:06

Instrument :

MSVOA_U

ClientSampleId :

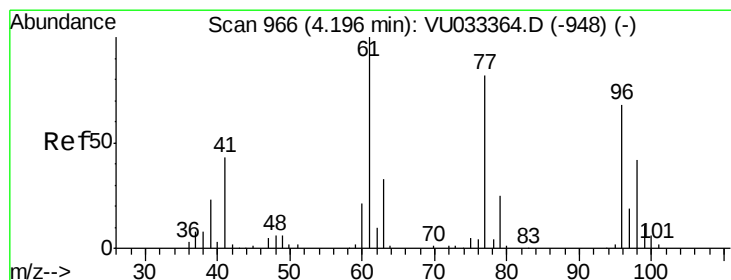
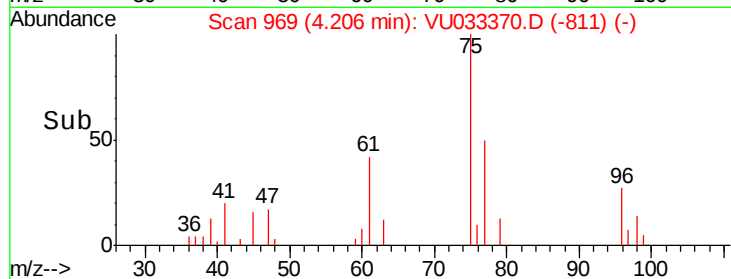
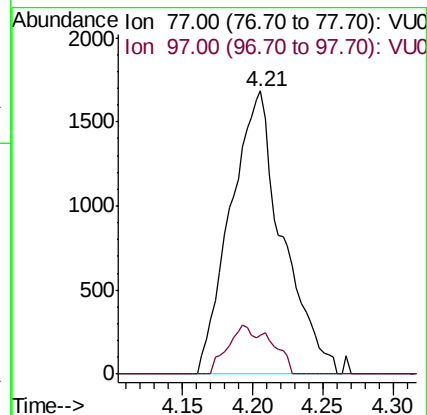
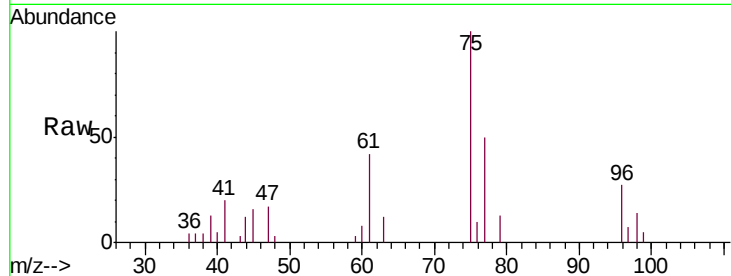
LOD-MDL-WATER-01-QT3-2019

Tgt Ion: 77 Resp: 4320

Ion Ratio Lower Upper

77 100

97 9.0 17.8 26.8#



#22

cis-1,2-Dichloroethene

Concen: 0.248 ug/l

RT: 4.20 min Scan# 967

Delta R.T. 0.00 min

Lab File: VU033370.D

Acq: 23 Jul 2019 10:06

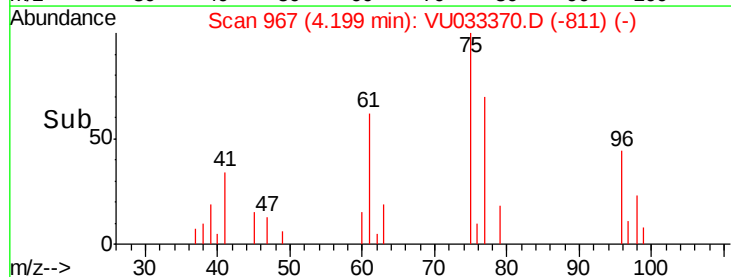
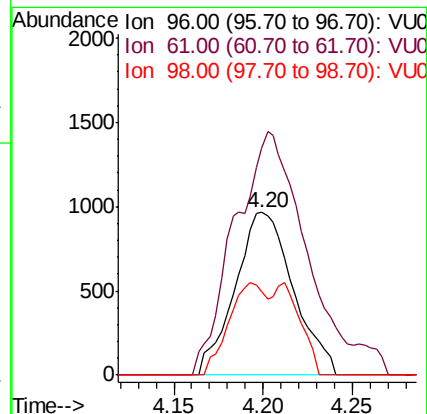
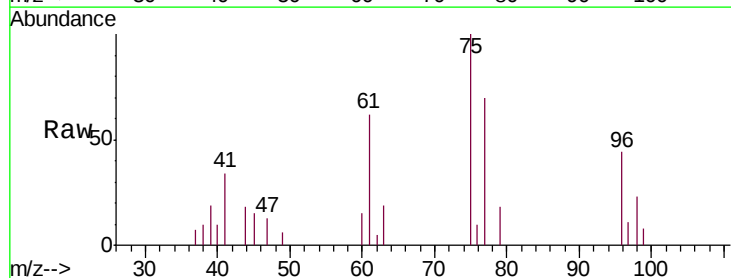
Tgt Ion: 96 Resp: 2209

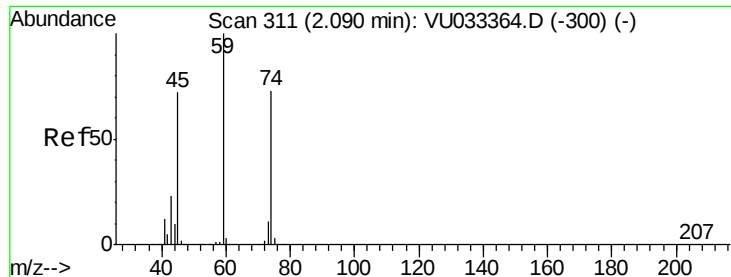
Ion Ratio Lower Upper

96 100

61 186.6 0.0 376.3

98 36.1 31.9 95.9

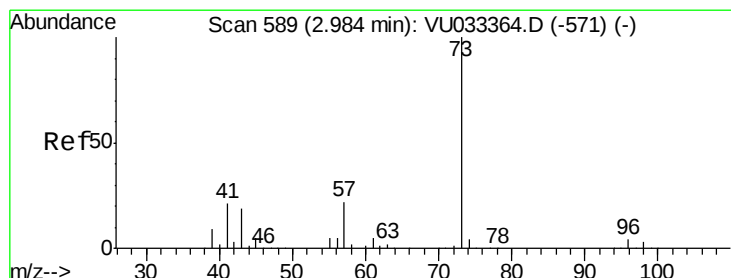
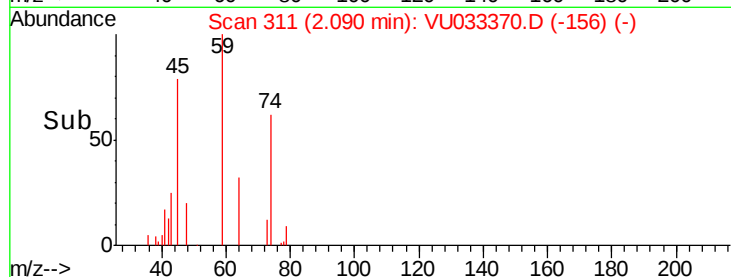
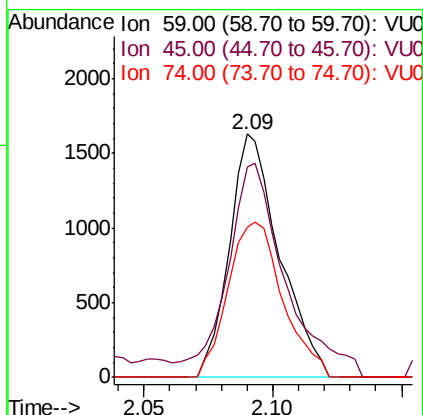
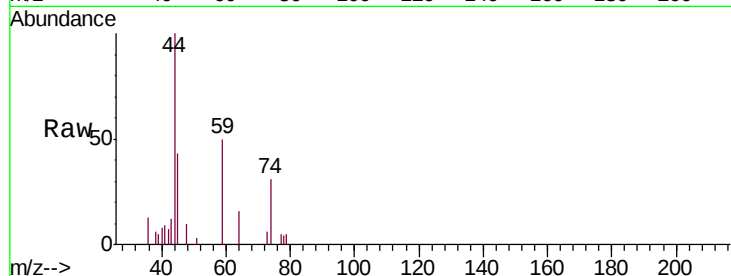




#23
Diethyl Ether
Concen: 0.258 ug/l
RT: 2.09 min Scan# 311
Delta R.T. -0.00 min
Lab File: VU033370.D
Acq: 23 Jul 2019 10:06

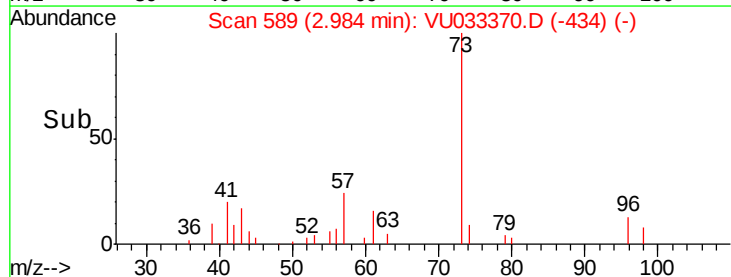
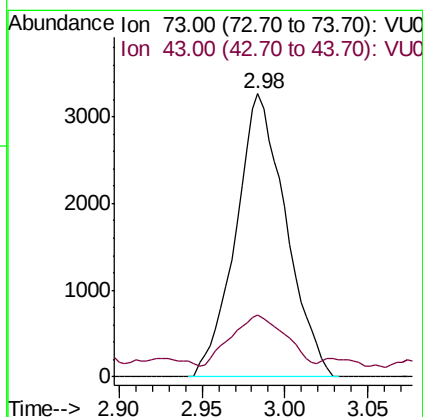
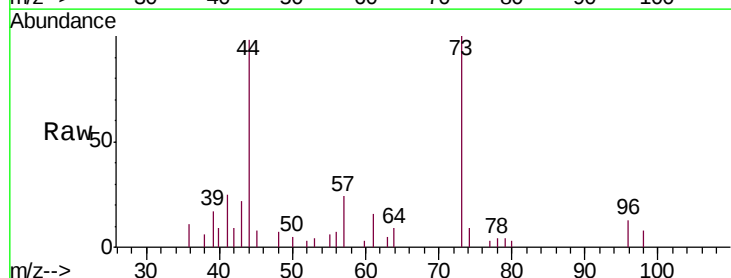
Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

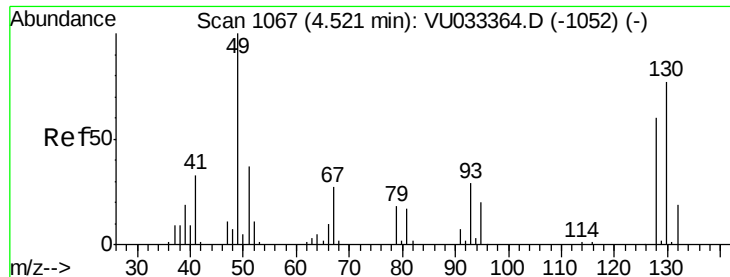
Tgt Ion: 59 Resp: 2204
Ion Ratio Lower Upper
59 100
45 102.1 57.6 86.4#
74 69.6 57.8 86.6



#25
Methyl tert-Butyl Ether
Concen: 0.240 ug/l
RT: 2.98 min Scan# 589
Delta R.T. -0.00 min
Lab File: VU033370.D
Acq: 23 Jul 2019 10:06

Tgt Ion: 73 Resp: 6855
Ion Ratio Lower Upper
73 100
43 19.4 16.6 24.8

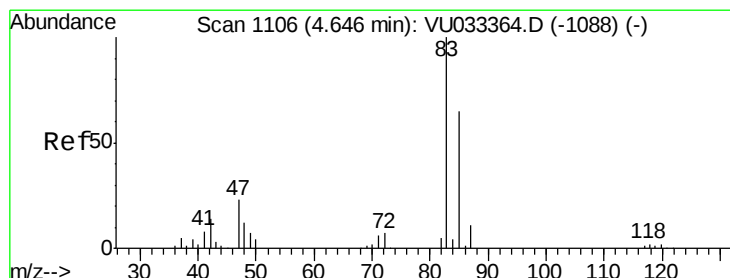
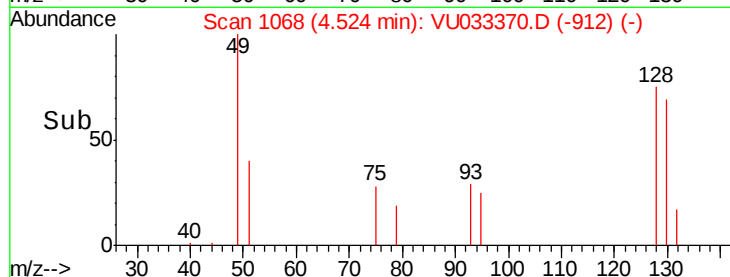
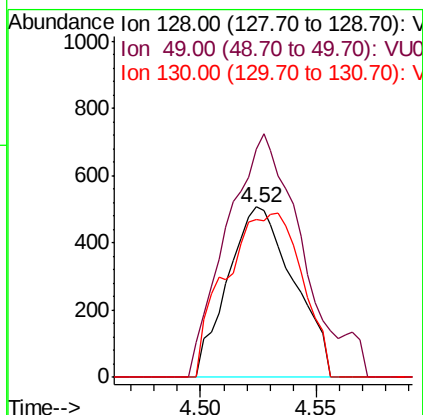
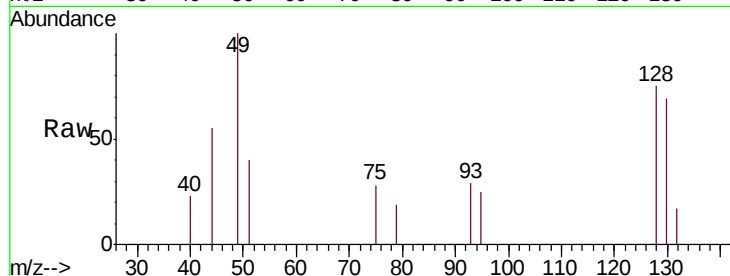




#26
 Bromochloromethane
 Concen: 0.255 ug/l
 RT: 4.52 min Scan# 1068
 Delta R.T. 0.00 min
 Lab File: VU033370.D
 Acq: 23 Jul 2019 10:06

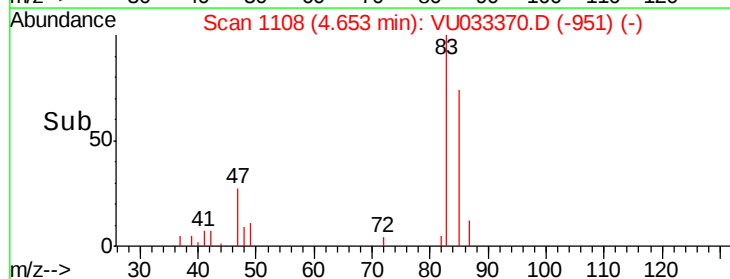
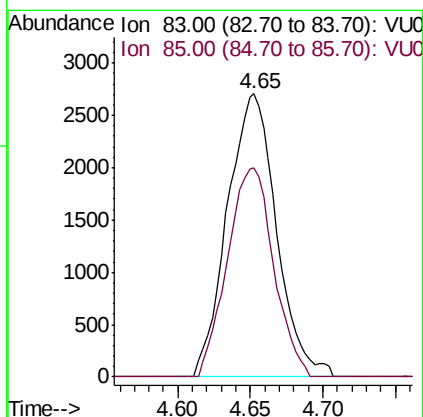
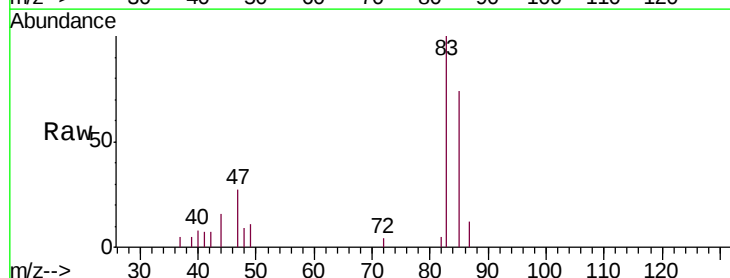
Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2019

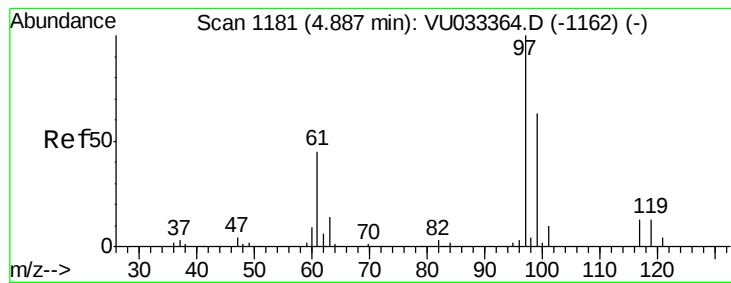
Tgt Ion: 128 Resp: 1001
 Ion Ratio Lower Upper
 128 100
 49 157.2 0.0 333.4
 130 111.6 103.4 155.2



#27
 Chloroform
 Concen: 0.353 ug/l
 RT: 4.65 min Scan# 1108
 Delta R.T. 0.01 min
 Lab File: VU033370.D
 Acq: 23 Jul 2019 10:06

Tgt Ion: 83 Resp: 6369
 Ion Ratio Lower Upper
 83 100
 85 74.1 0.0 129.8





#28

1,1,1-Trichloroethane

Concen: 0.244 ug/l

RT: 4.89 min Scan# 1183

Delta R.T. 0.01 min

Lab File: VU033370.D

Acq: 23 Jul 2019 10:06

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

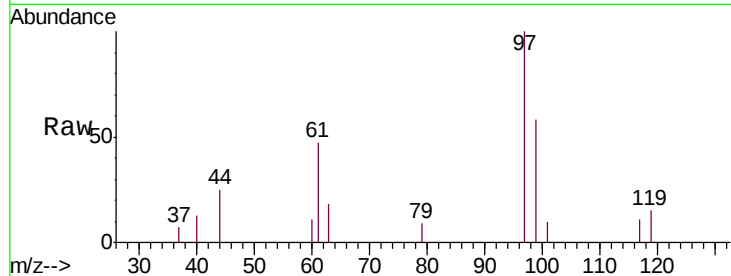
Tgt Ion: 97 Resp: 3416

Ion Ratio Lower Upper

97 100

99 67.3 31.9 95.5

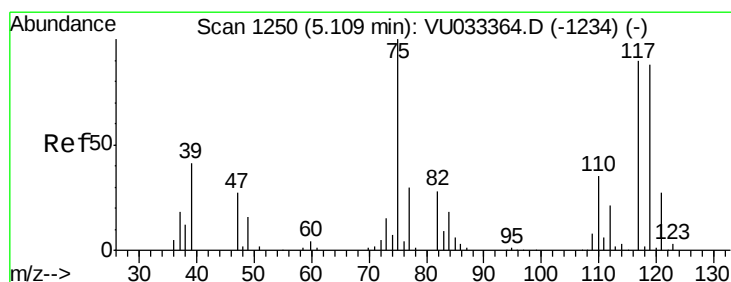
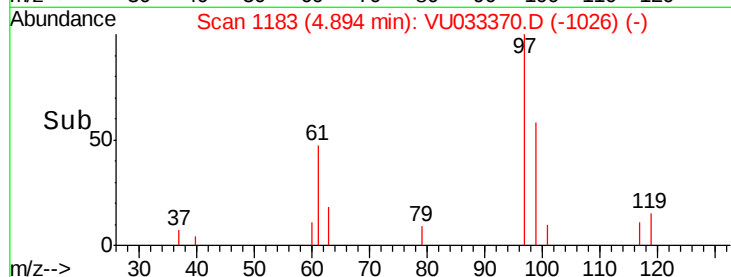
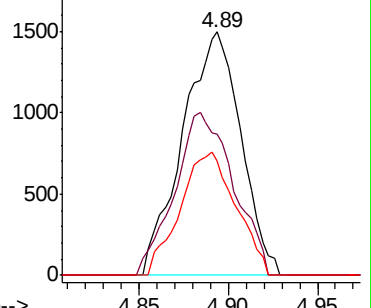
61 48.3 22.7 68.0



Abundance Ion 97.00 (96.70 to 97.70): VU033364.D (-1162) (-)

Ion 99.00 (98.70 to 99.70): VU033364.D (-1162) (-)

Ion 61.00 (60.70 to 61.70): VU033364.D (-1162) (-)



#29

1,1-Dichloropropene

Concen: 0.239 ug/l

RT: 5.11 min Scan# 1251

Delta R.T. 0.00 min

Lab File: VU033370.D

Acq: 23 Jul 2019 10:06

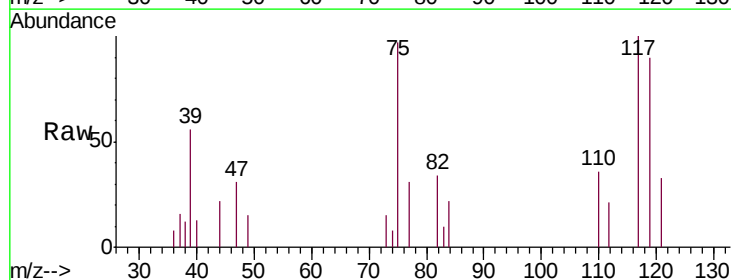
Tgt Ion: 75 Resp: 2759

Ion Ratio Lower Upper

75 100

110 32.3 17.5 52.6

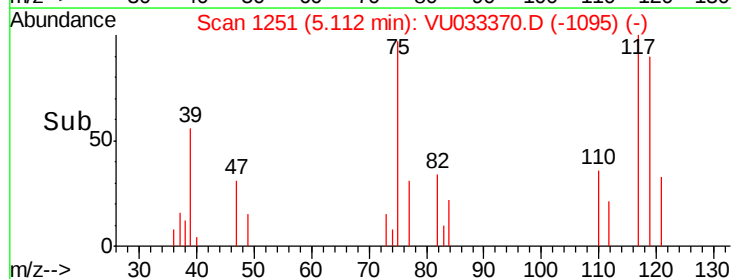
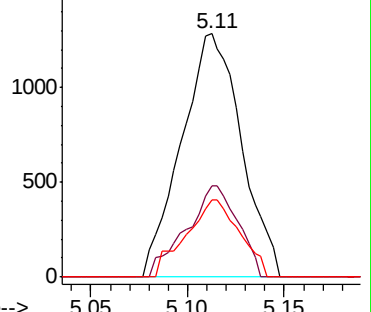
77 28.5 25.1 37.7

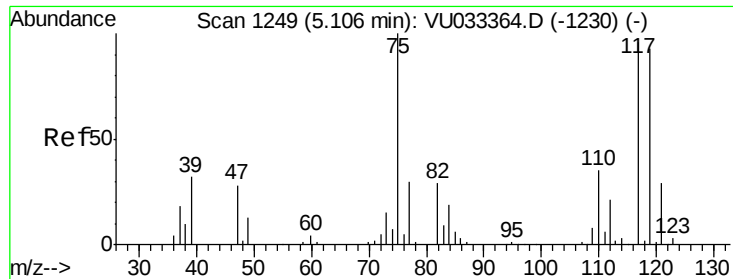


Abundance Ion 75.00 (74.70 to 75.70): VU033364.D (-1234) (-)

Ion 110.00 (109.70 to 110.70): VU033364.D (-1234) (-)

Ion 77.00 (76.70 to 77.70): VU033364.D (-1234) (-)

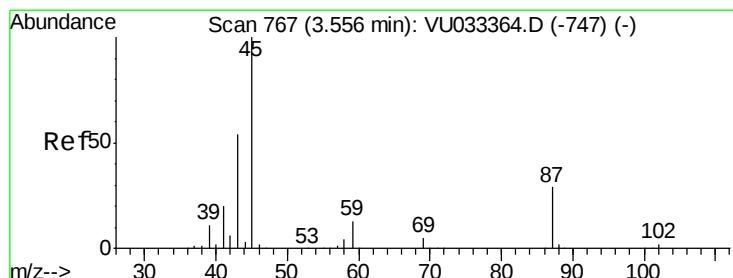
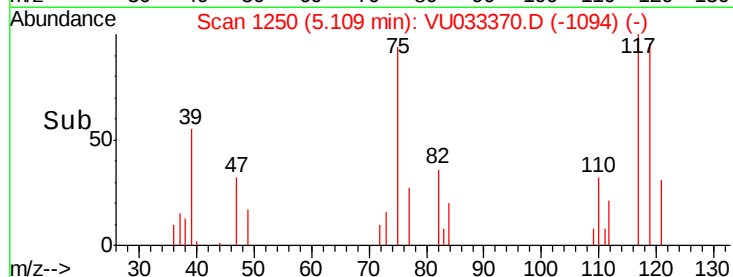
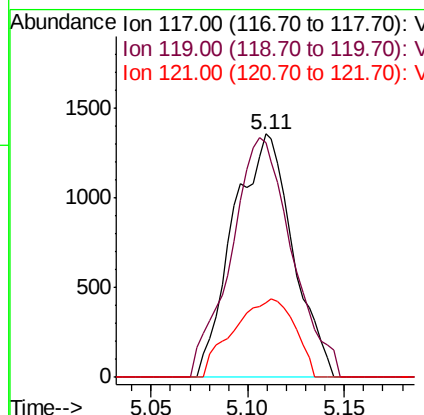
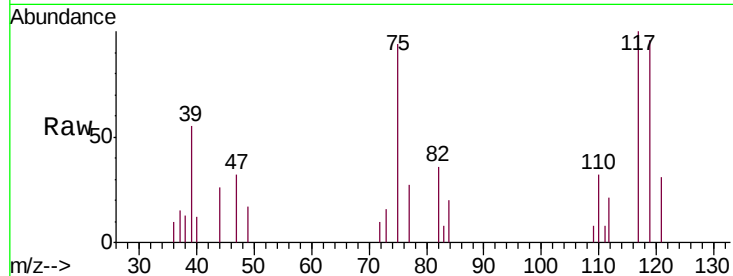




#30
Carbon Tetrachloride
Concen: 0.236 ug/l
RT: 5.11 min Scan# 1250
Delta R.T. 0.00 min
Lab File: VU033370.D
Acq: 23 Jul 2019 10:06

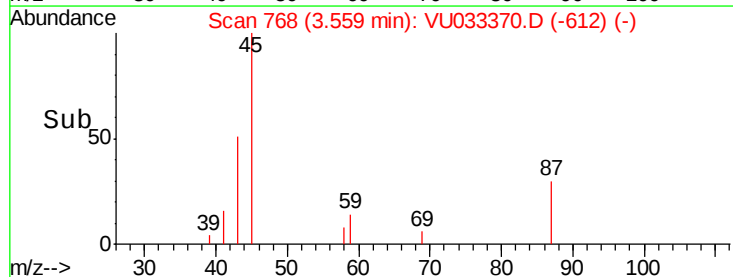
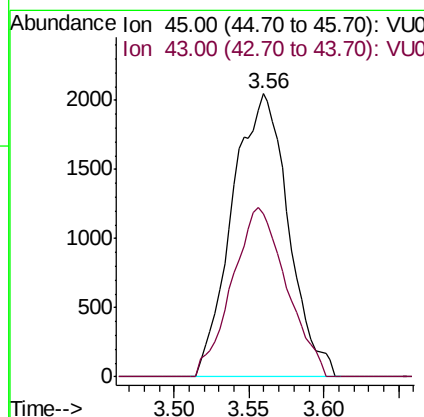
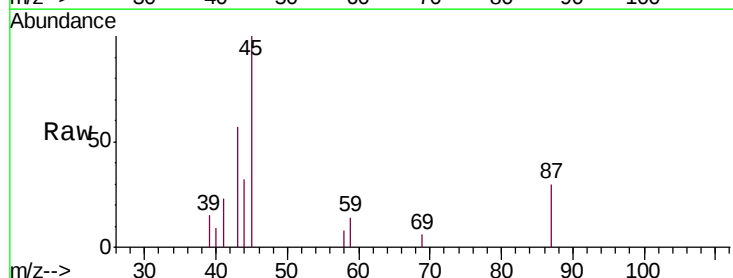
Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

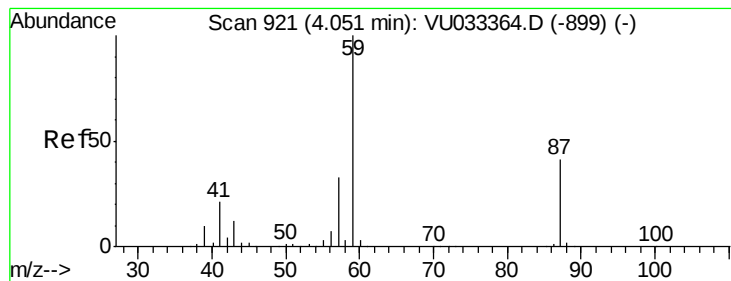
Tgt Ion: 117 Resp: 2899
Ion Ratio Lower Upper
117 100
119 96.3 77.9 116.9
121 30.6 24.0 36.0



#31
Isopropyl Ether
Concen: 0.268 ug/l
RT: 3.56 min Scan# 768
Delta R.T. 0.00 min
Lab File: VU033370.D
Acq: 23 Jul 2019 10:06

Tgt Ion: 45 Resp: 5351
Ion Ratio Lower Upper
45 100
43 57.7 27.8 83.3





#32

Ethyl-t-butyl ether

Concen: 0.255 ug/l

RT: 4.05 min Scan# 921

Delta R.T. -0.00 min

Lab File: VU033370.D

Acq: 23 Jul 2019 10:06

Instrument :

MSVOA_U

ClientSampleId :

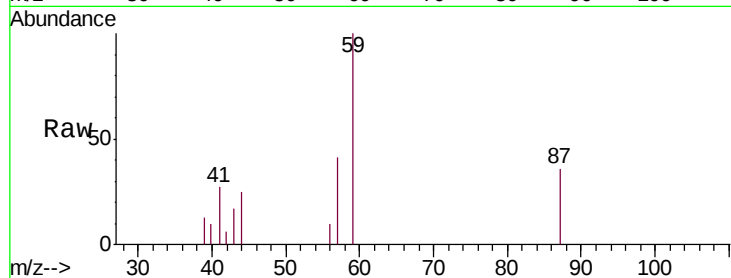
LOD-MDL-WATER-01-QT3-2019

Tgt Ion: 59 Resp: 4898

Ion Ratio Lower Upper

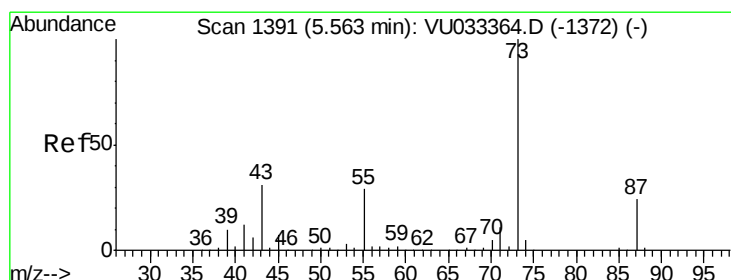
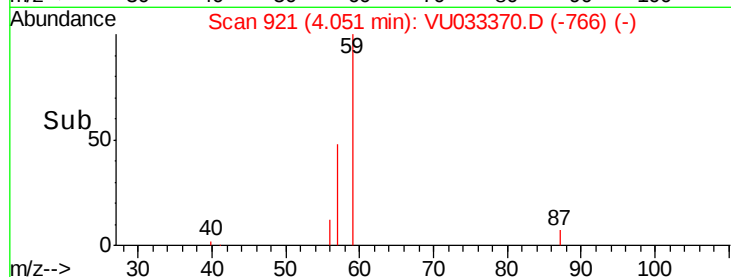
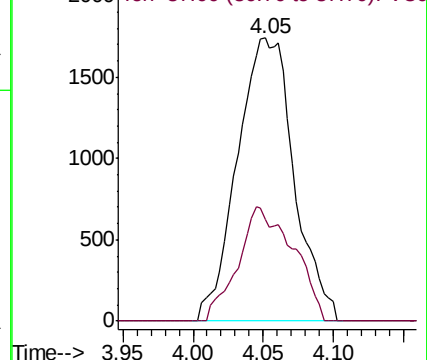
59 100

87 39.2 33.8 50.6



Abundance Ion 59.00 (58.70 to 59.70): VU033364.D (-899) (-)

Ion 87.00 (86.70 to 87.70): VU033364.D (-899) (-)



#33

Tert-Amyl methyl ether

Concen: 0.234 ug/l

RT: 5.56 min Scan# 1390

Delta R.T. -0.00 min

Lab File: VU033370.D

Acq: 23 Jul 2019 10:06

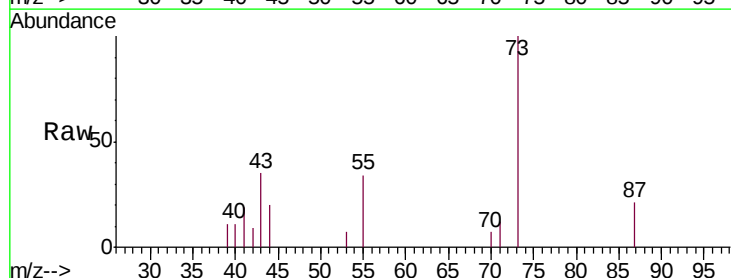
Tgt Ion: 73 Resp: 4043

Ion Ratio Lower Upper

73 100

87 20.1 18.9 28.3

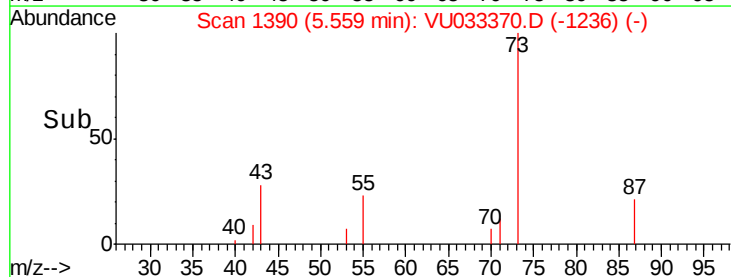
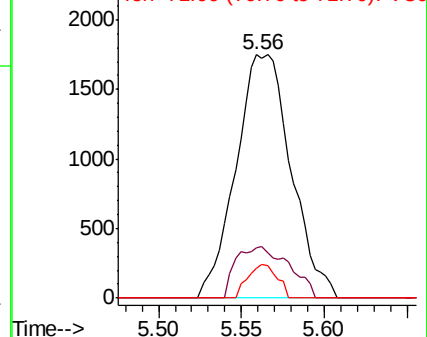
71 7.3 9.3 13.9#

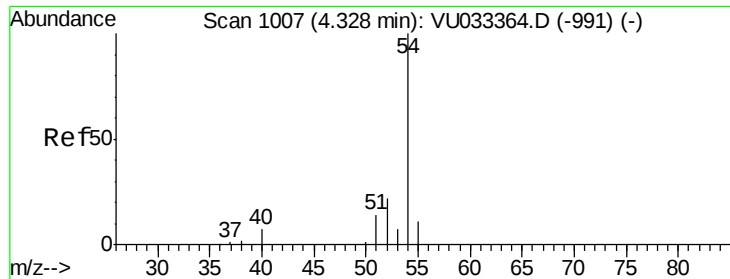


Abundance Ion 73.00 (72.70 to 73.70): VU033364.D (-1372) (-)

Ion 87.00 (86.70 to 87.70): VU033364.D (-1372) (-)

Ion 71.00 (70.70 to 71.70): VU033364.D (-1372) (-)

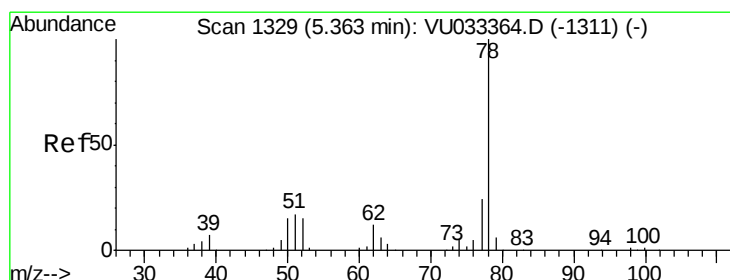
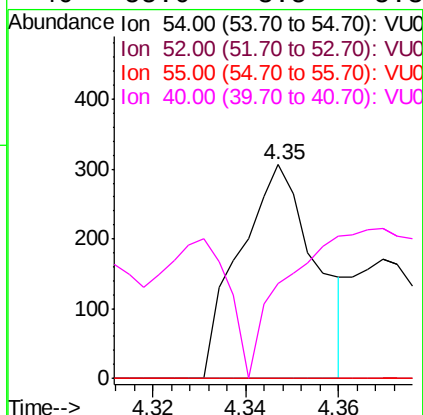
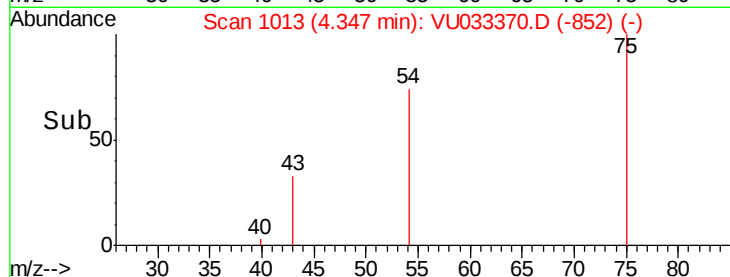
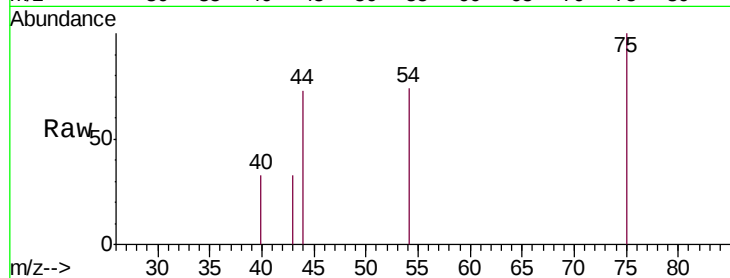




#34
 Propionitrile
 Concen: 0.540 ug/l
 RT: 4.35 min Scan# 1013
 Delta R.T. 0.02 min
 Lab File: VU033370.D
 Acq: 23 Jul 2019 10:06

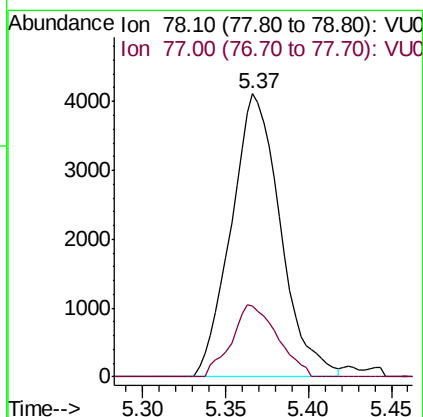
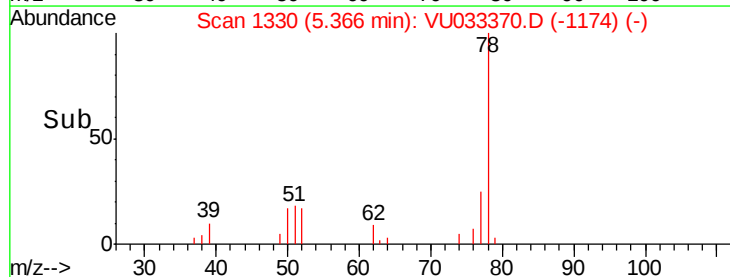
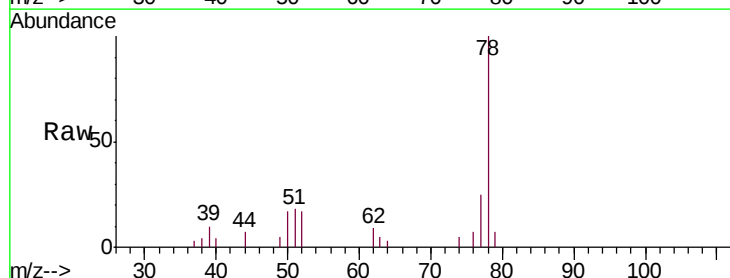
Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2019

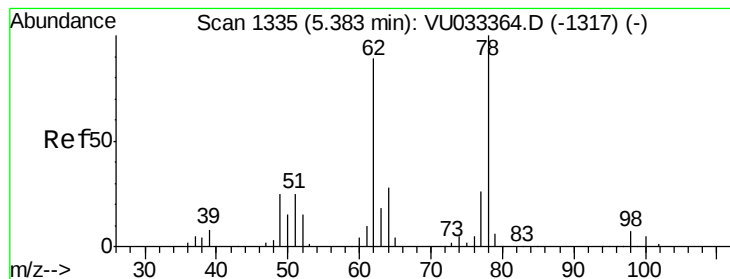
Tgt Ion: 54 Resp: 349
 Ion Ratio Lower Upper
 54 100
 52 0.0 17.1 25.7#
 55 0.0 11.6 17.4#
 40 55.0 3.5 5.3#



#35
 Benzene
 Concen: 0.255 ug/l
 RT: 5.37 min Scan# 1330
 Delta R.T. 0.00 min
 Lab File: VU033370.D
 Acq: 23 Jul 2019 10:06

Tgt Ion: 78 Resp: 8483
 Ion Ratio Lower Upper
 78 100
 77 25.0 19.4 29.2





#36

1,2-Dichloroethane

Concen: 0.240 ug/l

RT: 5.39 min Scan# 1336

Delta R.T. 0.00 min

Lab File: VU033370.D

Acq: 23 Jul 2019 10:06

Instrument :

MSVOA_U

ClientSampleId :

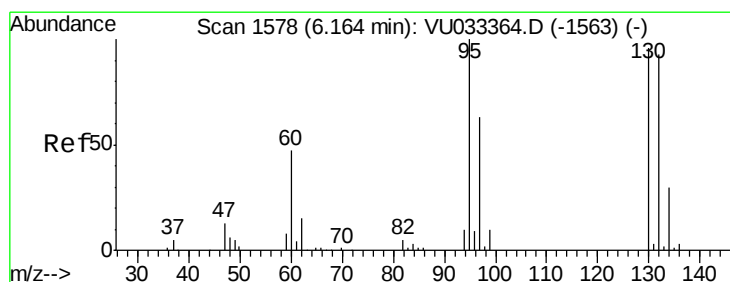
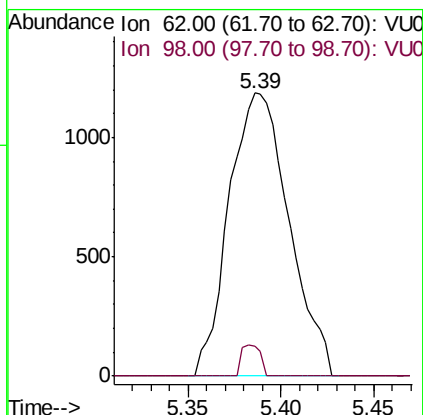
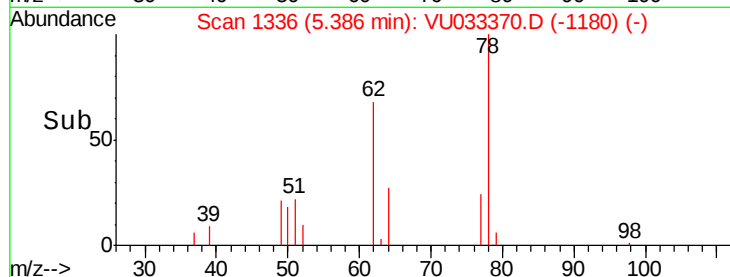
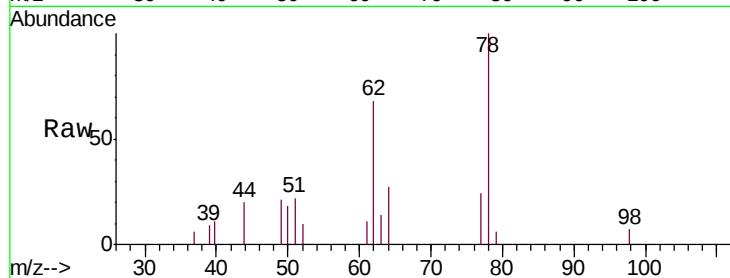
LOD-MDL-WATER-01-QT3-2019

Tgt Ion: 62 Resp: 2666

Ion Ratio Lower Upper

62 100

98 3.5 6.5 9.7#



#37

Trichloroethene

Concen: 0.235 ug/l

RT: 6.16 min Scan# 1578

Delta R.T. -0.00 min

Lab File: VU033370.D

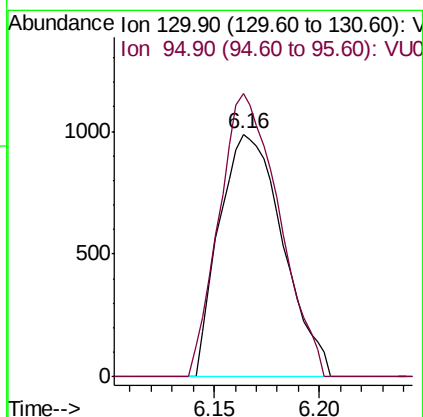
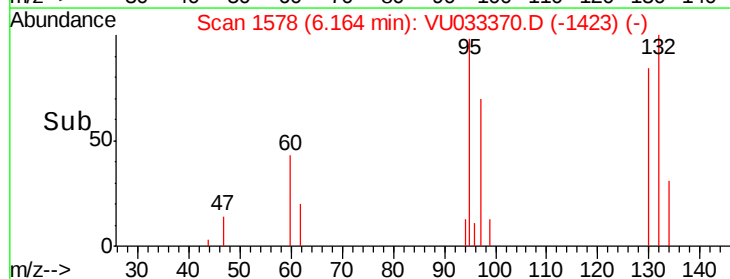
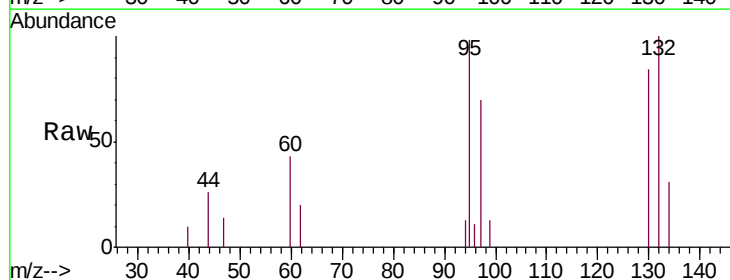
Acq: 23 Jul 2019 10:06

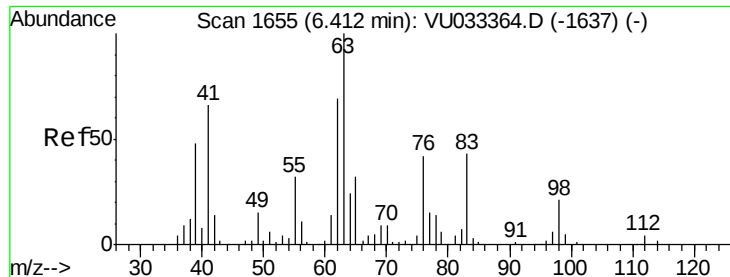
Tgt Ion: 130 Resp: 2071

Ion Ratio Lower Upper

130 100

95 116.5 83.4 125.0

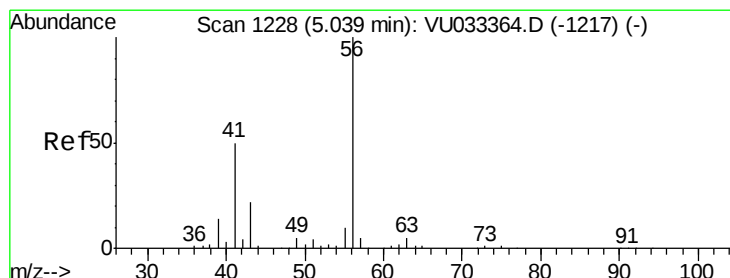
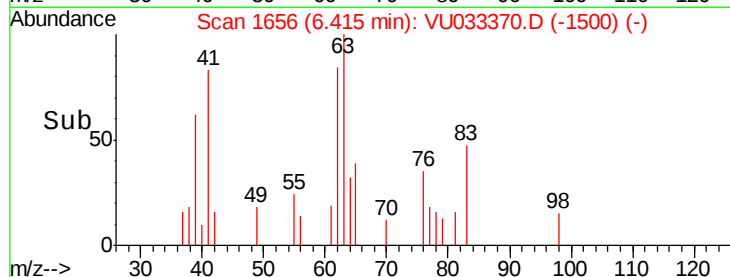
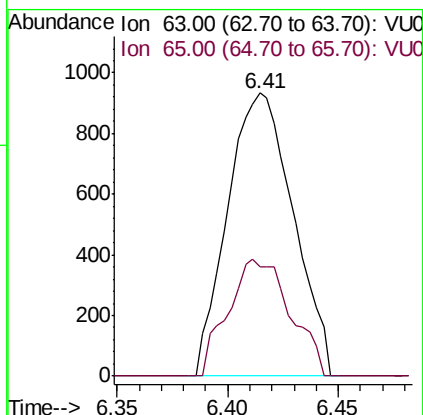
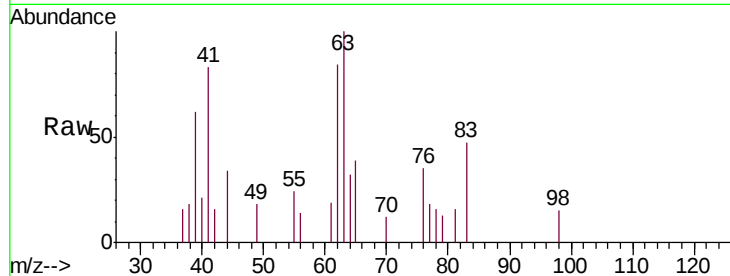




#38
 1,2-Dichloropropane
 Concen: 0.209 ug/l
 RT: 6.41 min Scan# 1656
 Delta R.T. 0.00 min
 Lab File: VU033370.D
 Acq: 23 Jul 2019 10:06

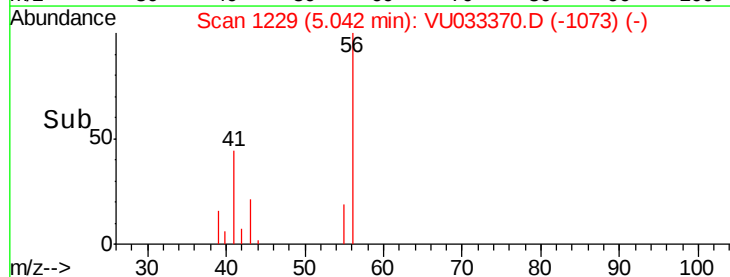
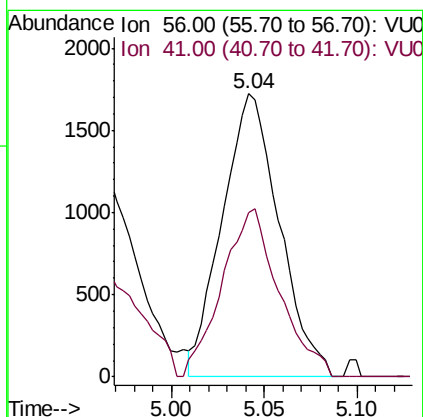
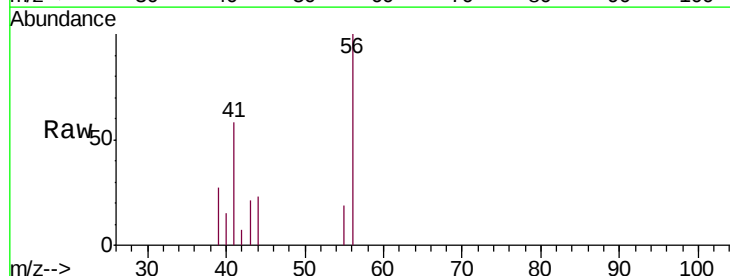
Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2019

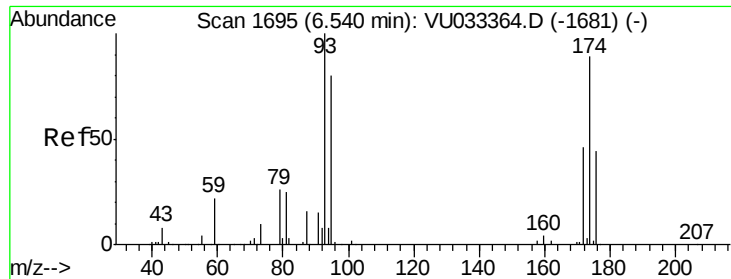
Tgt Ion: 63 Resp: 1921
 Ion Ratio Lower Upper
 63 100
 65 38.8 25.7 38.5#



#42
 1-Chlorobutane
 Concen: 0.238 ug/l
 RT: 5.04 min Scan# 1229
 Delta R.T. 0.00 min
 Lab File: VU033370.D
 Acq: 23 Jul 2019 10:06

Tgt Ion: 56 Resp: 3683
 Ion Ratio Lower Upper
 56 100
 41 59.5 25.7 77.1

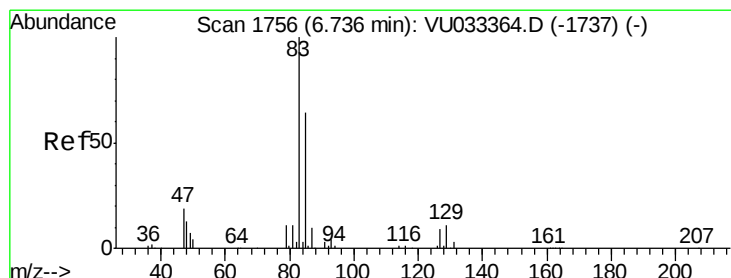
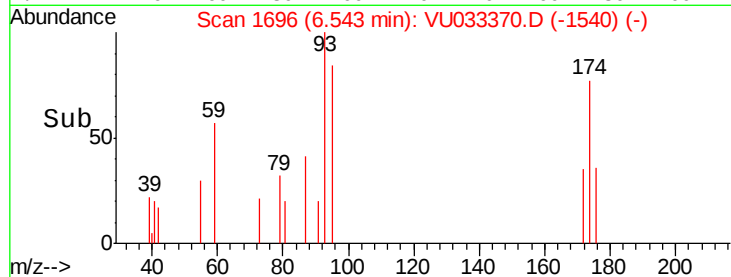
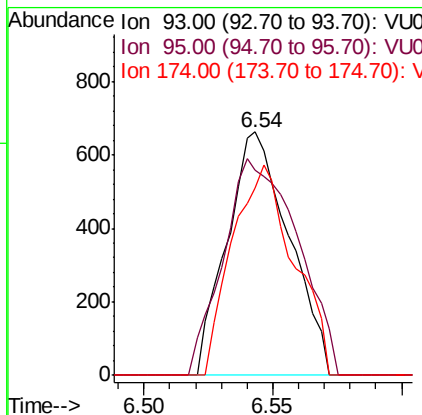
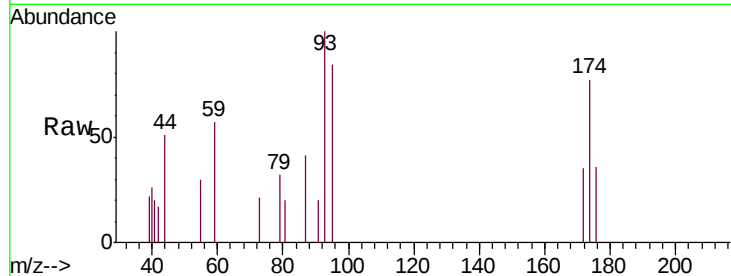




#43
 Dibromomethane
 Concen: 0.218 ug/l
 RT: 6.54 min Scan# 1696
 Delta R.T. 0.00 min
 Lab File: VU033370.D
 Acq: 23 Jul 2019 10:06

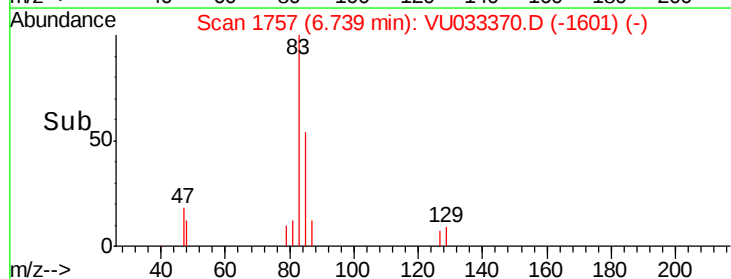
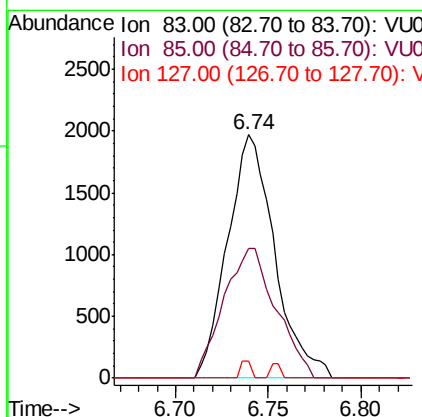
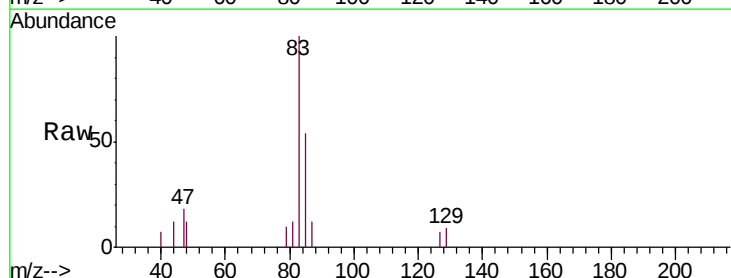
Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2019

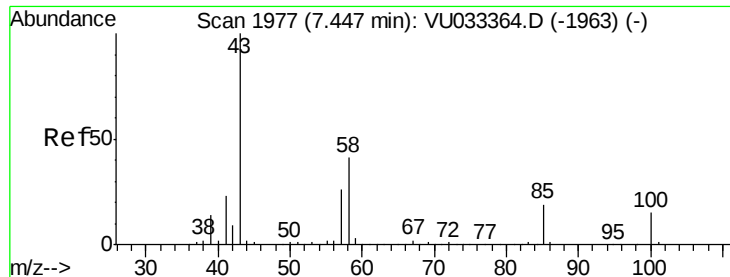
Tgt Ion: 93 Resp: 1110
 Ion Ratio Lower Upper
 93 100
 95 106.8 65.3 97.9#
 174 85.9 70.7 106.1



#44
 Bromodichloromethane
 Concen: 0.284 ug/l
 RT: 6.74 min Scan# 1757
 Delta R.T. 0.00 min
 Lab File: VU033370.D
 Acq: 23 Jul 2019 10:06

Tgt Ion: 83 Resp: 3480
 Ion Ratio Lower Upper
 83 100
 85 53.5 51.1 76.7
 127 7.0 7.2 10.8#

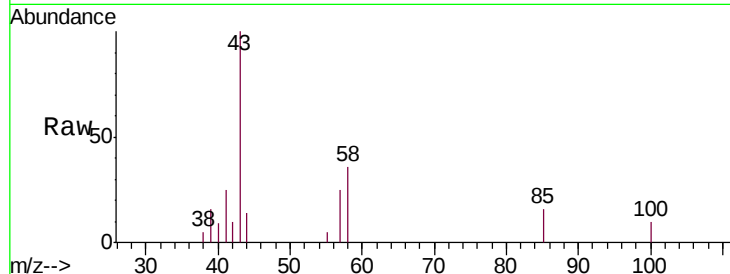




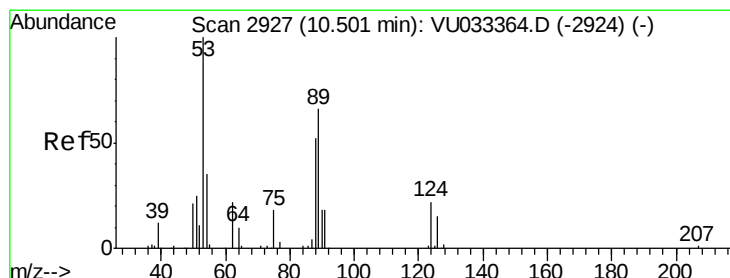
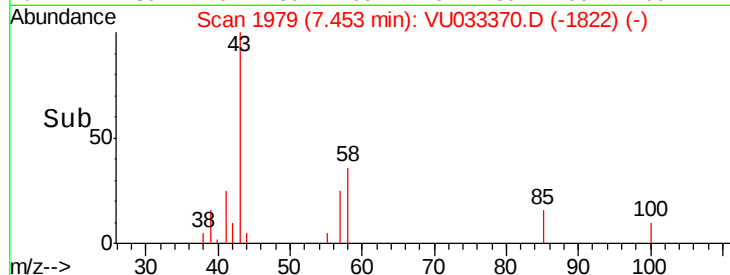
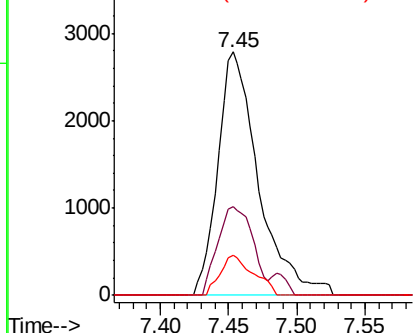
#45
 4-Methyl-2-Pentanone
 Concen: 1.115 ug/l
 RT: 7.45 min Scan# 1979
 Delta R.T. 0.01 min
 Lab File: VU033370.D
 Acq: 23 Jul 2019 10:06

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2019

Tgt Ion: 43 Resp: 5786
 Ion Ratio Lower Upper
 43 100
 58 31.4 20.3 60.8
 85 13.3 15.0 22.6#

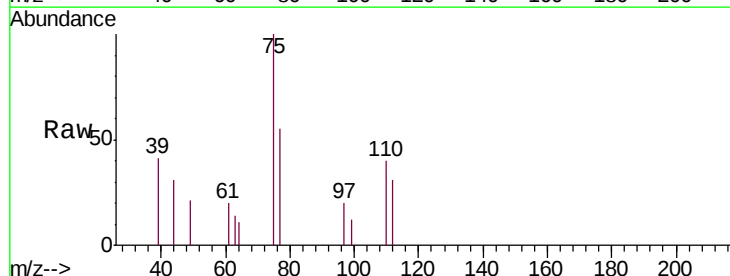


Abundance Ion 43.00 (42.70 to 43.70): VU0
 Ion 58.00 (57.70 to 58.70): VU0
 Ion 85.00 (84.70 to 85.70): VU0

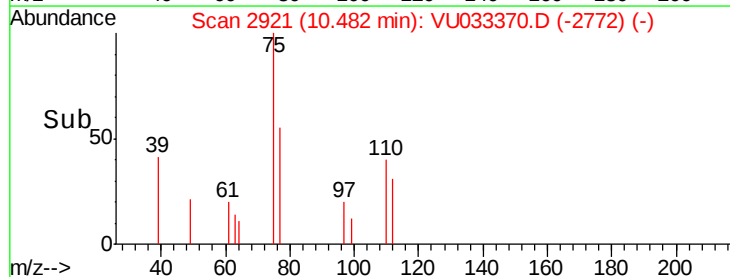
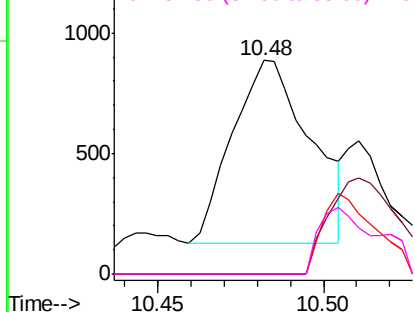


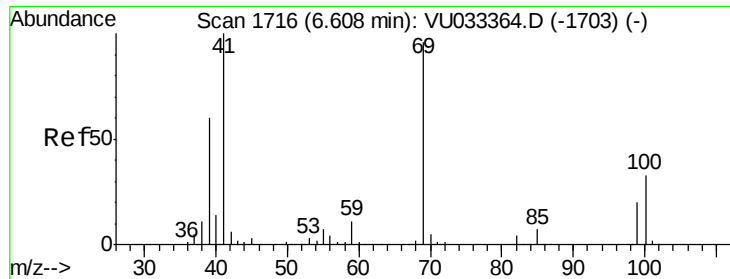
#46
 t-1,4-Dichloro-2-butene
 Concen: 0.594 ug/l
 RT: 10.48 min Scan# 2921
 Delta R.T. -0.02 min
 Lab File: VU033370.D
 Acq: 23 Jul 2019 10:06

Tgt Ion: 75 Resp: 1245
 Ion Ratio Lower Upper
 75 100
 53 45.4 62.9 94.3#
 89 29.4 43.0 64.4#
 88 27.1 35.0 52.4#



Abundance Ion 74.90 (74.60 to 75.60): VU0
 Ion 53.00 (52.70 to 53.70): VU0
 Ion 88.80 (88.50 to 89.50): VU0
 Ion 87.80 (87.50 to 88.50): VU0

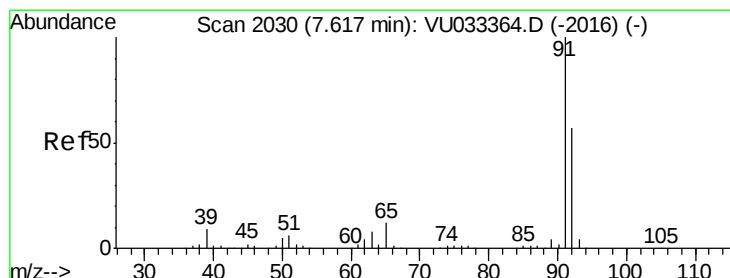
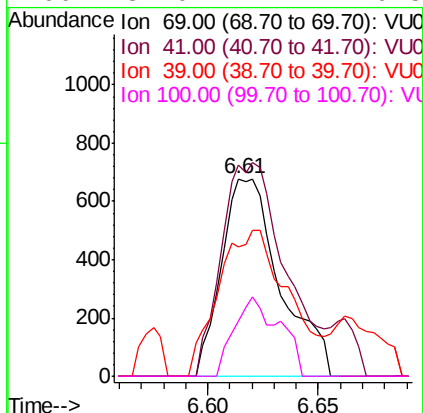
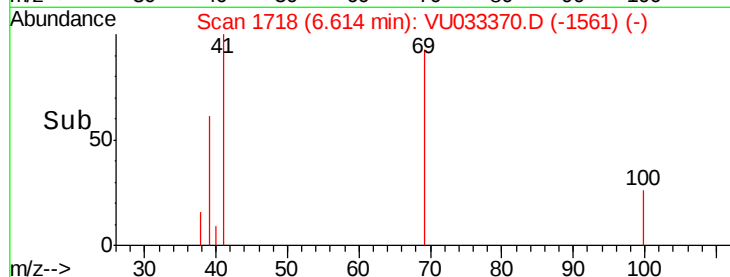
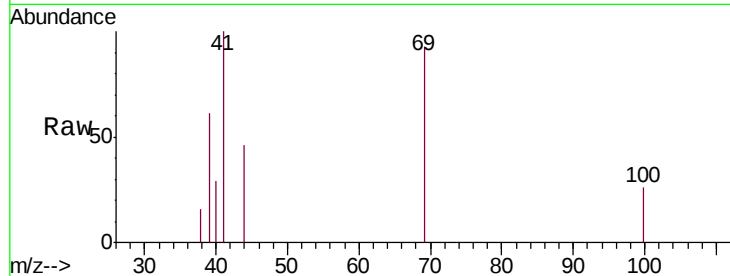




#47
Methyl methacrylate
Concen: 0.323 ug/l
RT: 6.61 min Scan# 1718
Delta R.T. 0.01 min
Lab File: VU033370.D
Acq: 23 Jul 2019 10:06

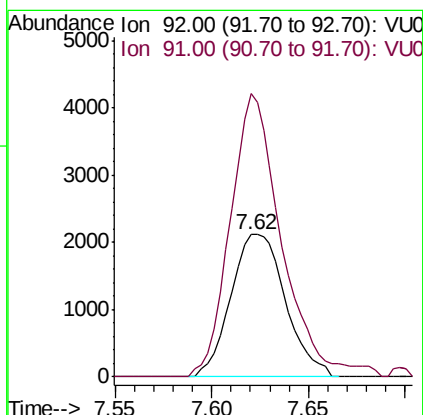
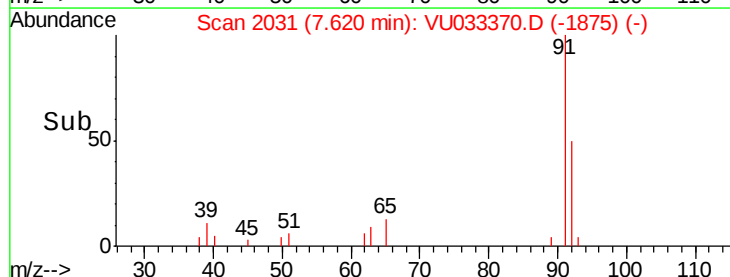
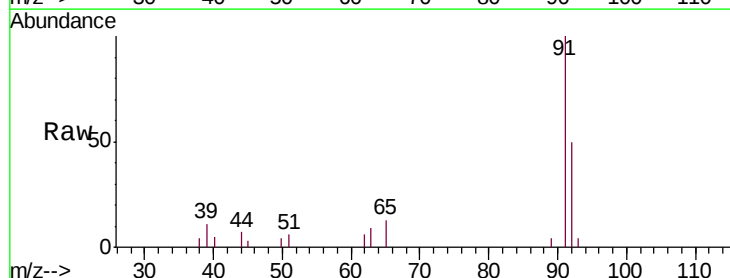
Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

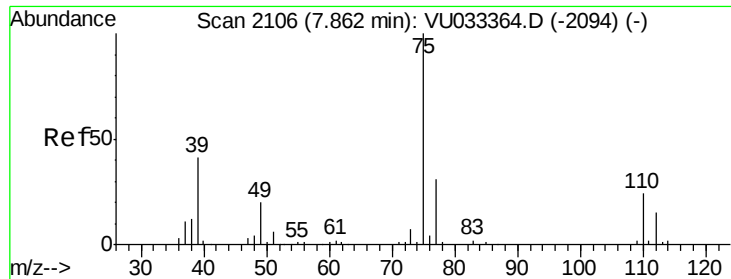
Tgt Ion: 69 Resp: 1253
Ion Ratio Lower Upper
69 100
41 117.2 0.0 208.2
39 88.4 50.6 75.8#
100 31.0 27.2 40.8



#49
Toluene
Concen: 0.217 ug/l
RT: 7.62 min Scan# 2031
Delta R.T. 0.00 min
Lab File: VU033370.D
Acq: 23 Jul 2019 10:06

Tgt Ion: 92 Resp: 4149
Ion Ratio Lower Upper
92 100
91 187.2 142.1 213.1

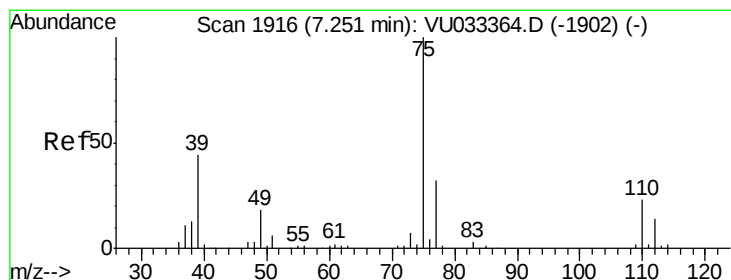
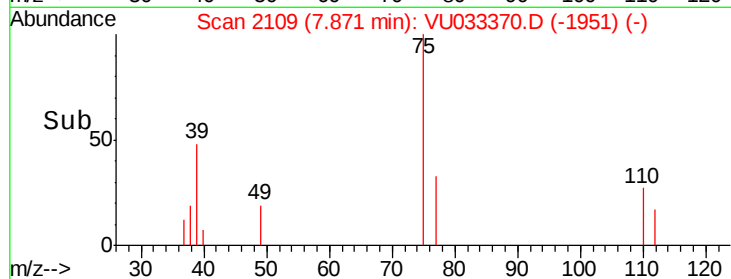
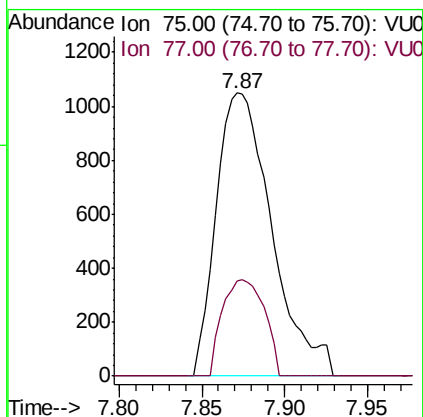
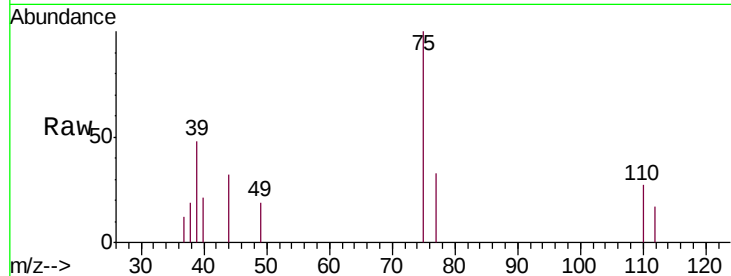




#50
 t-1,3-Dichloropropene
 Concen: 0.239 ug/l
 RT: 7.87 min Scan# 2109
 Delta R.T. 0.01 min
 Lab File: VU033370.D
 Acq: 23 Jul 2019 10:06

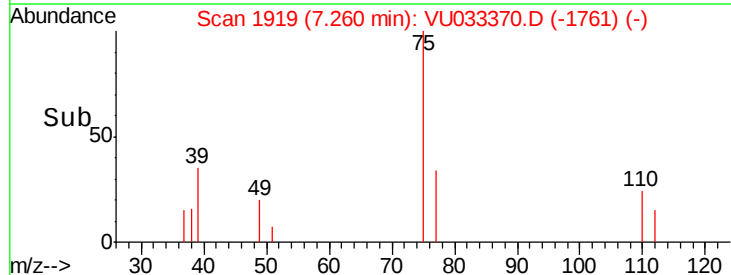
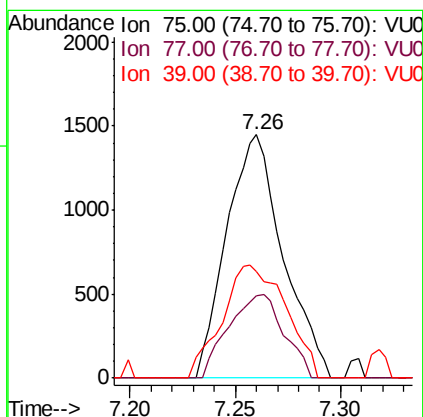
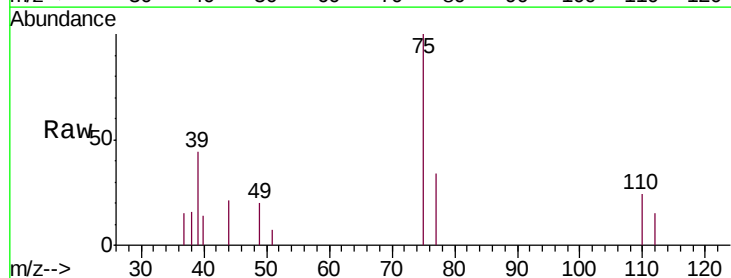
Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2019

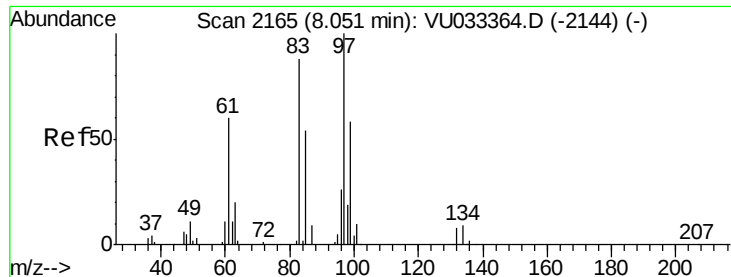
Tgt Ion: 75 Resp: 2445
 Ion Ratio Lower Upper
 75 100
 77 33.5 25.2 37.8



#51
 cis-1,3-Dichloropropene
 Concen: 0.223 ug/l
 RT: 7.26 min Scan# 1919
 Delta R.T. 0.01 min
 Lab File: VU033370.D
 Acq: 23 Jul 2019 10:06

Tgt Ion: 75 Resp: 2692
 Ion Ratio Lower Upper
 75 100
 77 34.0 25.8 38.8
 39 43.9 35.2 52.8

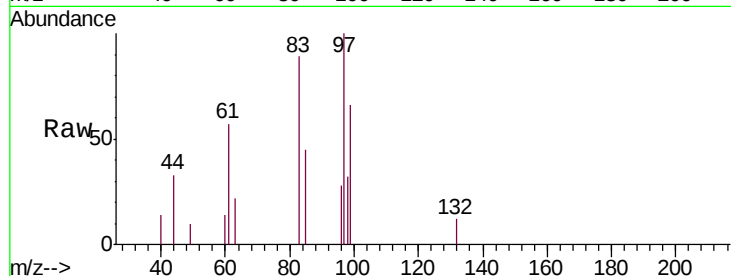




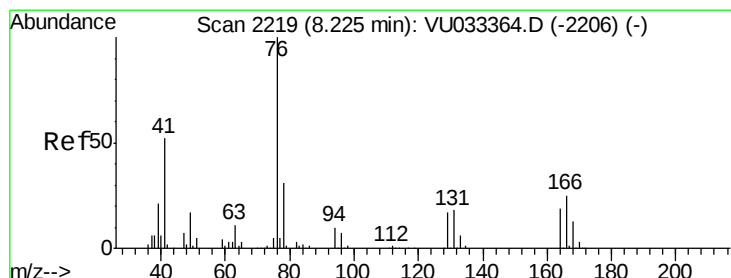
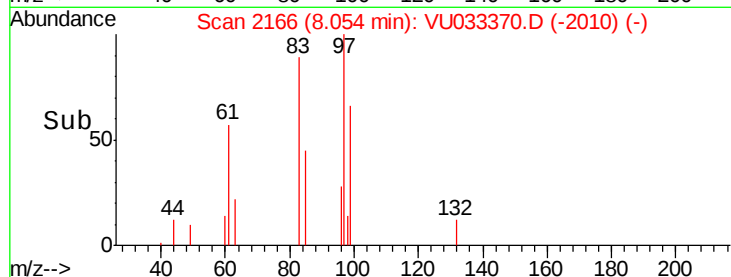
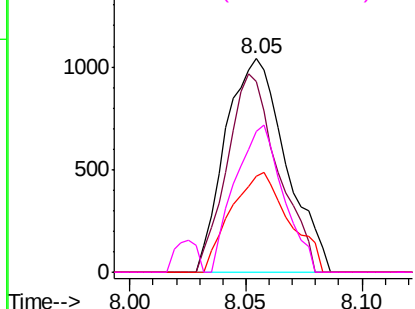
#52
 1,1,2-Trichloroethane
 Concen: 0.277 ug/l
 RT: 8.05 min Scan# 2166
 Delta R.T. 0.00 min
 Lab File: VU033370.D
 Acq: 23 Jul 2019 10:06

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2019

Tgt Ion: 97 Resp: 1886
 Ion Ratio Lower Upper
 97 100
 83 89.4 70.2 105.2
 85 45.2 43.5 65.3
 99 65.8 47.9 71.9

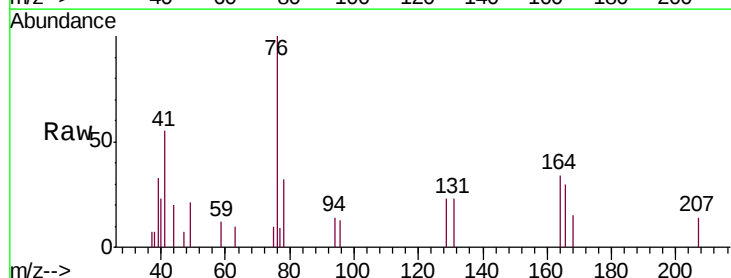


Abundance Ion 97.00 (96.70 to 97.70): VU0
 Ion 82.95 (82.65 to 83.65): VU0
 Ion 84.95 (84.65 to 85.65): VU0
 Ion 98.95 (98.65 to 99.65): VU0

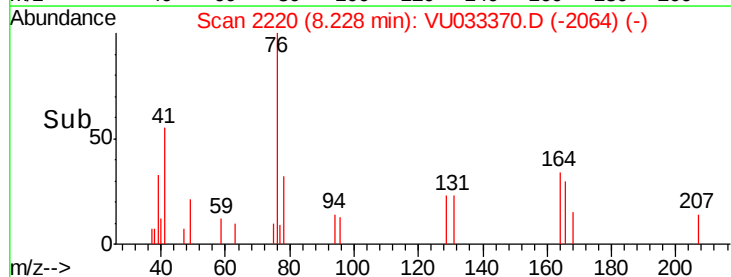
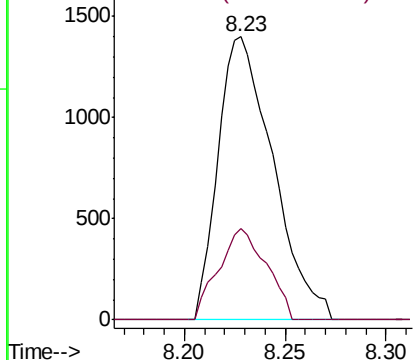


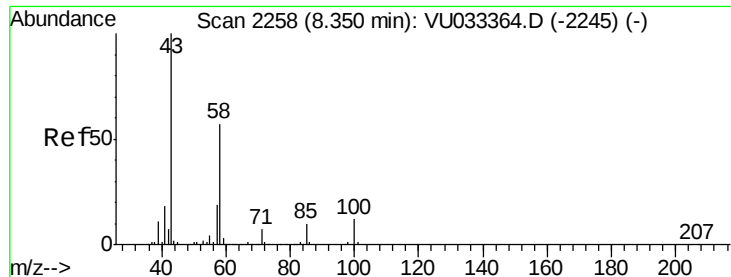
#53
 1,3-Dichloropropane
 Concen: 0.231 ug/l
 RT: 8.23 min Scan# 2220
 Delta R.T. 0.00 min
 Lab File: VU033370.D
 Acq: 23 Jul 2019 10:06

Tgt Ion: 76 Resp: 2652
 Ion Ratio Lower Upper
 76 100
 78 28.1 25.7 38.5



Abundance Ion 76.00 (75.70 to 76.70): VU0
 Ion 78.00 (77.70 to 78.70): VU0

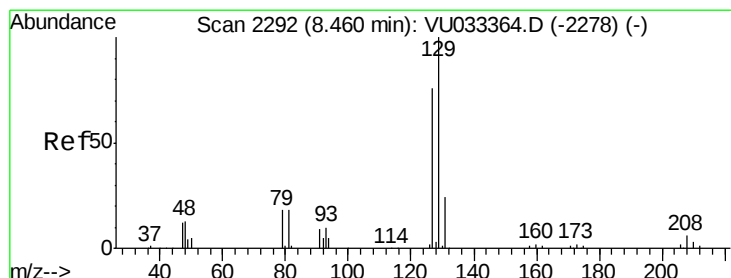
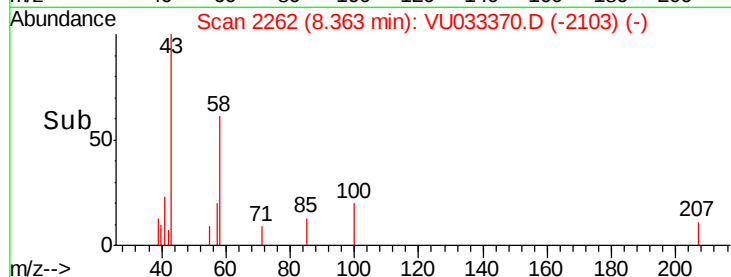
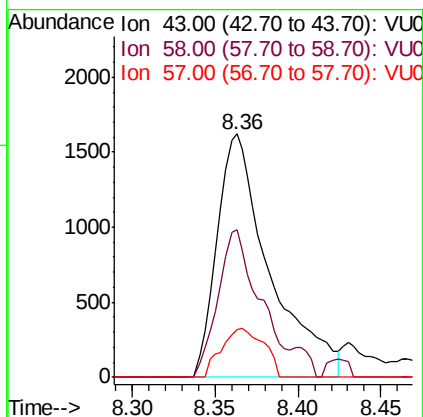
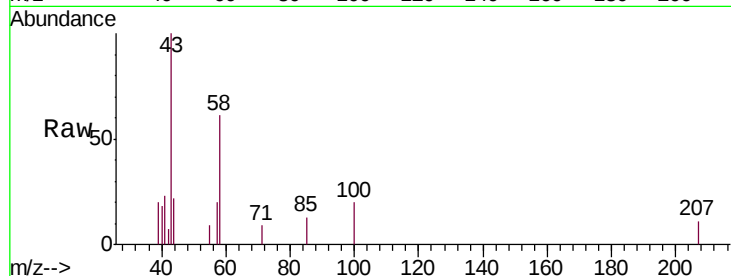




#54
2-Hexanone
Concen: 0.976 ug/l
RT: 8.36 min Scan# 2262
Delta R.T. 0.01 min
Lab File: VU033370.D
Acq: 23 Jul 2019 10:06

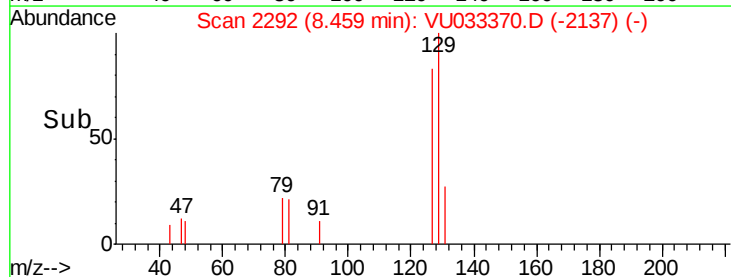
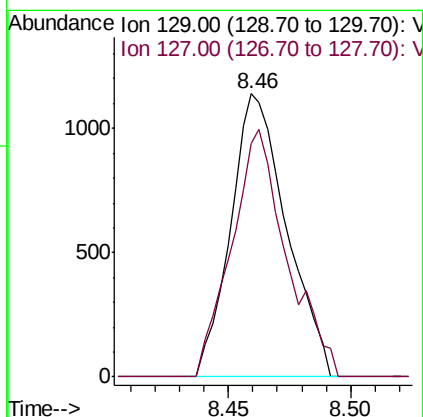
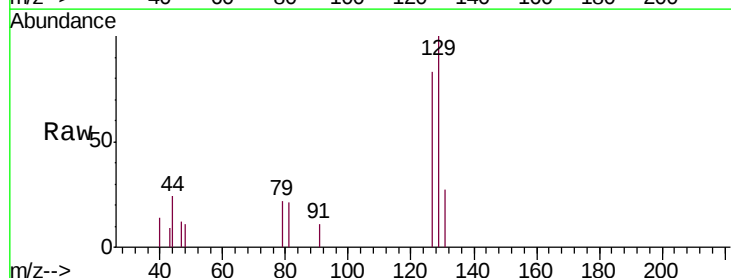
Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

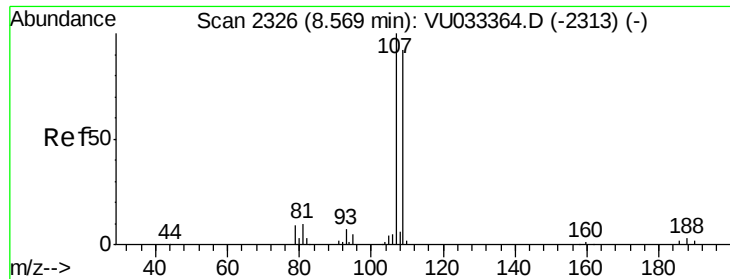
Tgt Ion: 43 Resp: 3566
Ion Ratio Lower Upper
43 100
58 48.2 36.0 76.0
57 16.1 0.0 39.4



#55
Dibromochloromethane
Concen: 0.228 ug/l
RT: 8.46 min Scan# 2292
Delta R.T. -0.00 min
Lab File: VU033370.D
Acq: 23 Jul 2019 10:06

Tgt Ion: 129 Resp: 1808
Ion Ratio Lower Upper
129 100
127 86.5 60.9 91.3

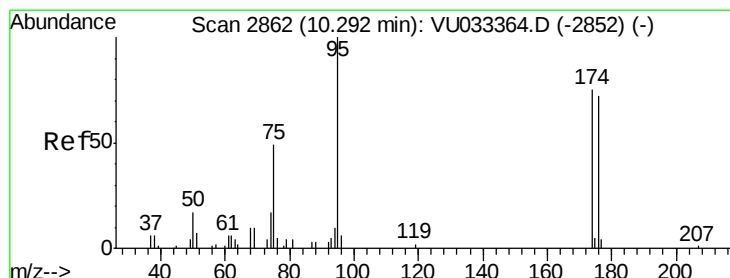
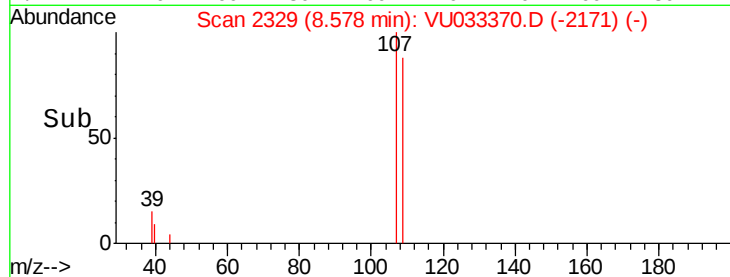
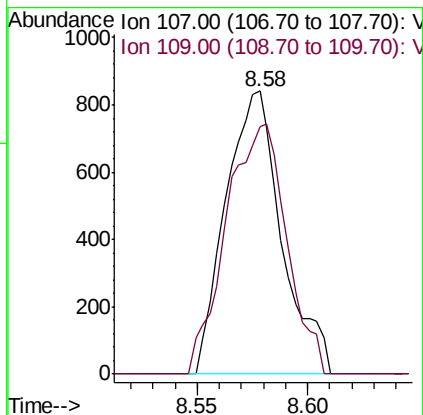
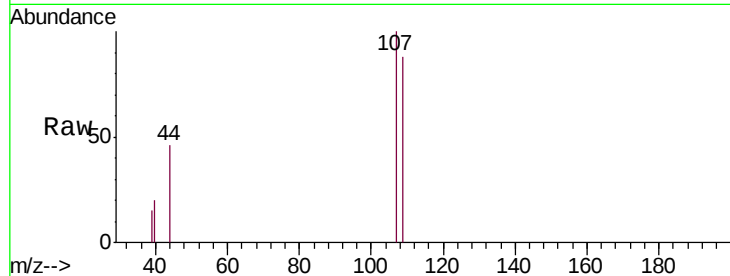




#56
 1,2-Dibromoethane
 Concen: 0.234 ug/l
 RT: 8.58 min Scan# 2329
 Delta R.T. 0.01 min
 Lab File: VU033370.D
 Acq: 23 Jul 2019 10:06

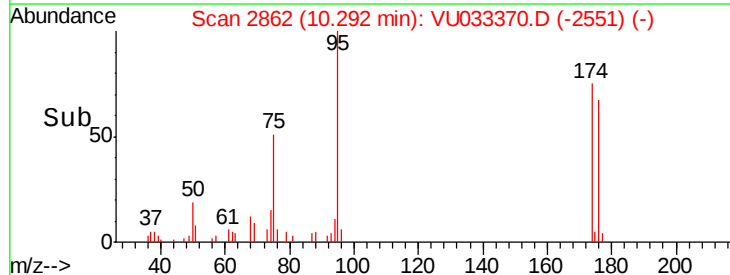
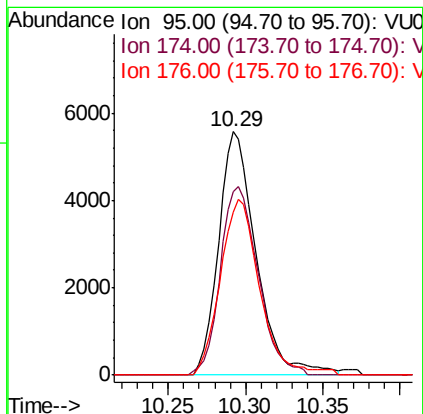
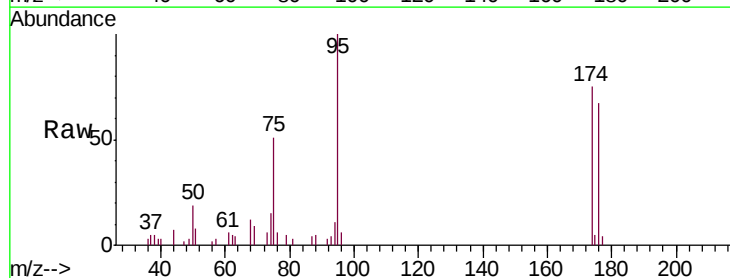
Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2019

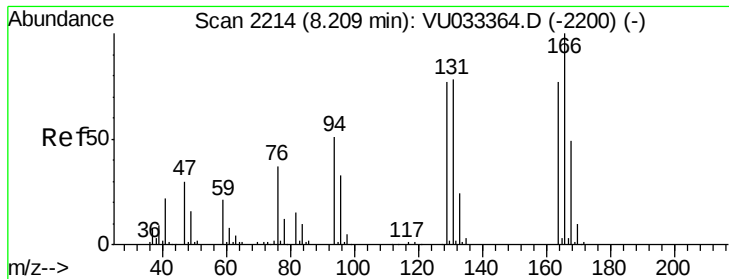
Tgt Ion: 107 Resp: 1482
 Ion Ratio Lower Upper
 107 100
 109 95.0 0.0 184.8



#57
 4-Bromofluorobenzene
 Concen: 0.856 ug/l
 RT: 10.29 min Scan# 2862
 Delta R.T. -0.00 min
 Lab File: VU033370.D
 Acq: 23 Jul 2019 10:06

Tgt Ion: 95 Resp: 9372
 Ion Ratio Lower Upper
 95 100
 174 78.0 58.8 88.2
 176 74.8 54.4 81.6

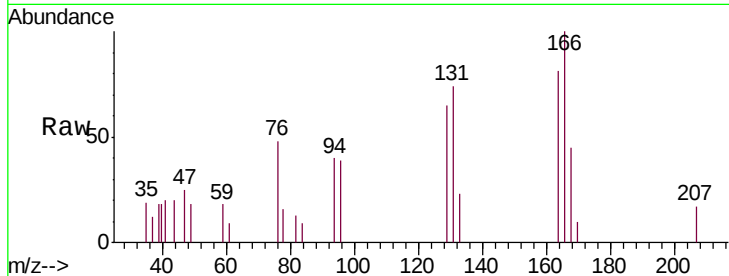




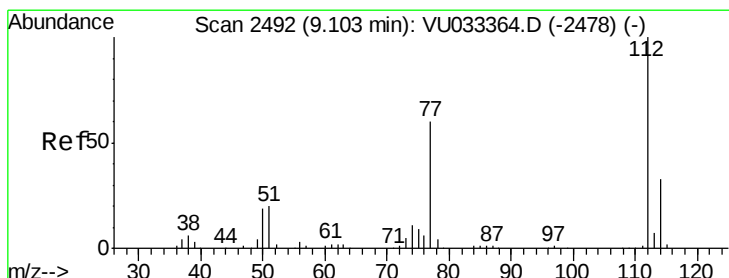
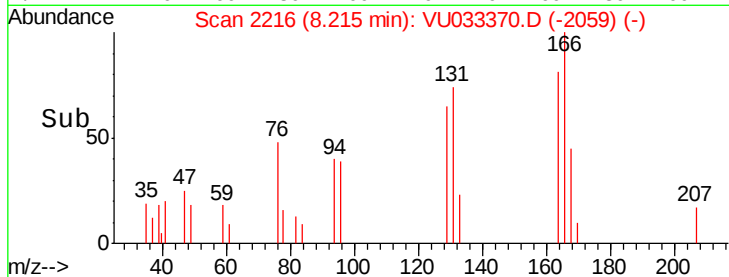
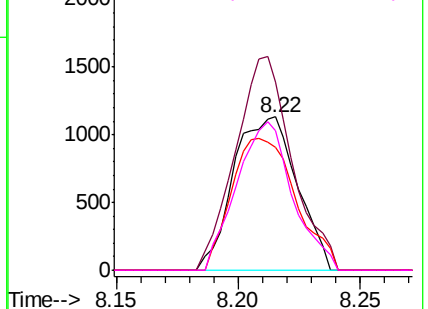
#58
Tetrachloroethene
Concen: 0.256 ug/l
RT: 8.22 min Scan# 2216
Delta R.T. 0.01 min
Lab File: VU033370.D
Acq: 23 Jul 2019 10:06

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

Tgt Ion:164 Resp: 2044
Ion Ratio Lower Upper
164 100
166 123.3 103.8 155.6
129 80.5 79.7 119.5
131 90.9 80.5 120.7

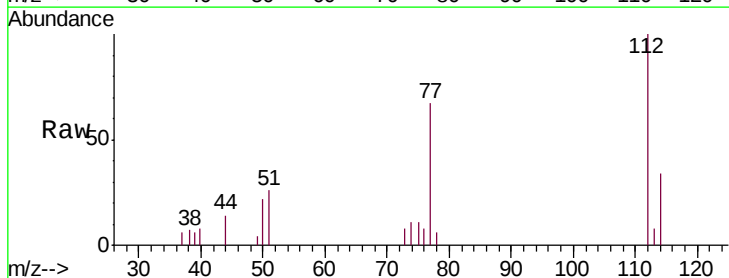


Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.90 (128.60 to 129.60): V
Ion 130.90 (130.60 to 131.60): V

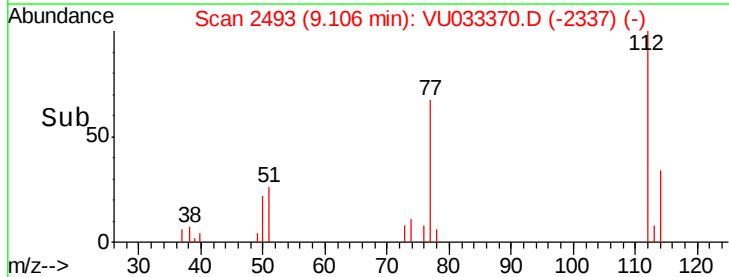
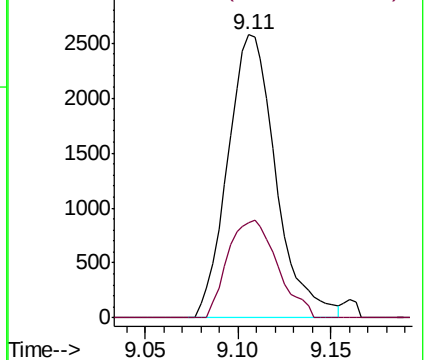


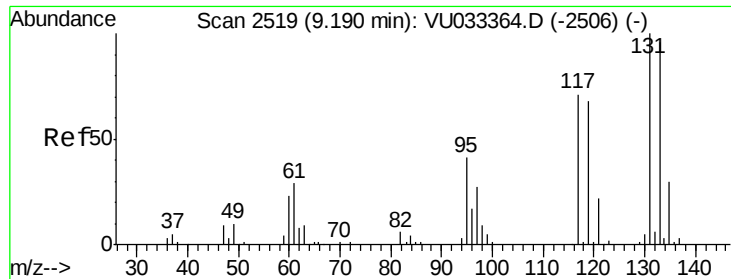
#59
Chlorobenzene
Concen: 0.213 ug/l
RT: 9.11 min Scan# 2493
Delta R.T. 0.00 min
Lab File: VU033370.D
Acq: 23 Jul 2019 10:06

Tgt Ion:112 Resp: 4652
Ion Ratio Lower Upper
112 100
114 33.9 26.4 39.6



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: 0.255 ug/l

RT: 9.19 min Scan# 2520

Delta R.T. 0.00 min

Lab File: VU033370.D

Acq: 23 Jul 2019 10:06

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

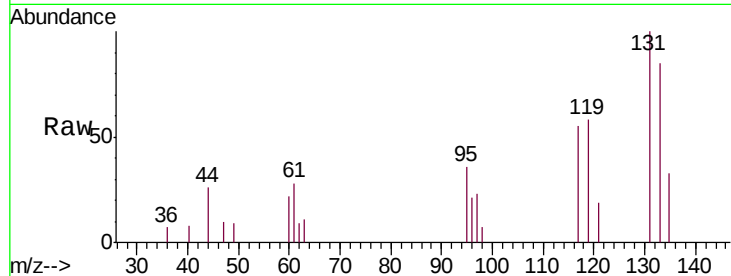
Tgt Ion:131 Resp: 2117

Ion Ratio Lower Upper

131 100

133 97.1 76.2 114.4

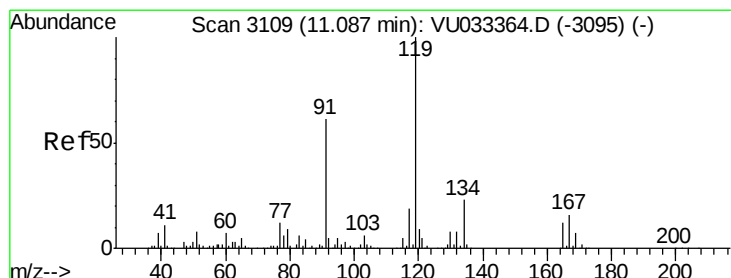
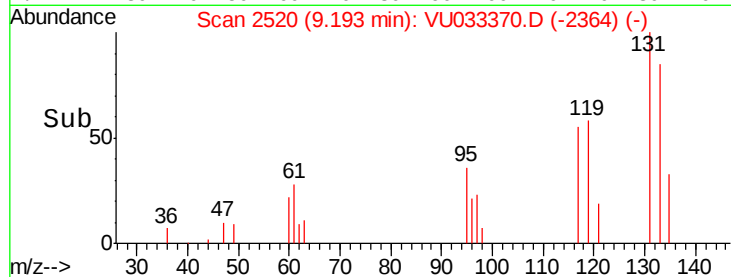
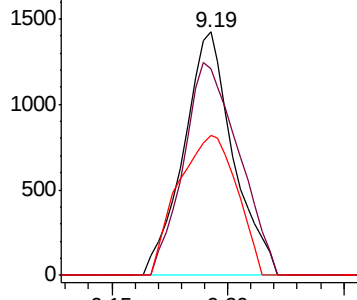
119 68.3 54.9 82.3



Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V



#61

Pentachloroethane

Concen: 0.240 ug/l

RT: 11.09 min Scan# 3109

Delta R.T. -0.00 min

Lab File: VU033370.D

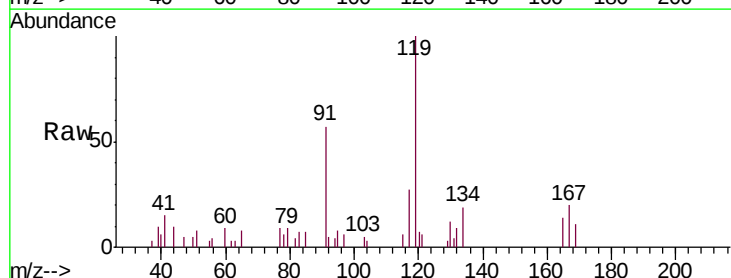
Acq: 23 Jul 2019 10:06

Tgt Ion:117 Resp: 1639

Ion Ratio Lower Upper

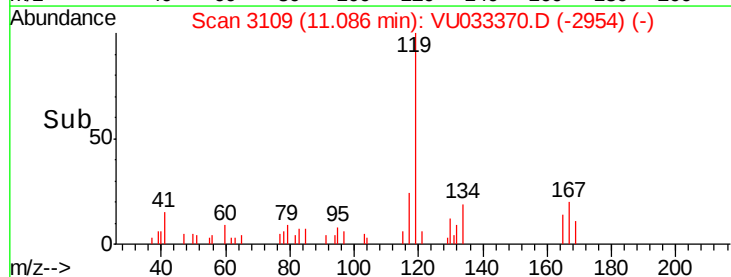
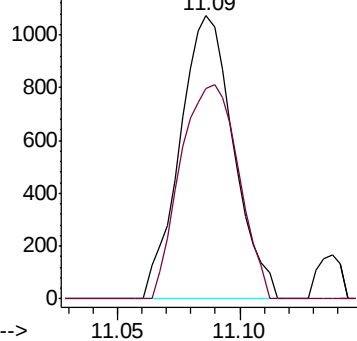
117 100

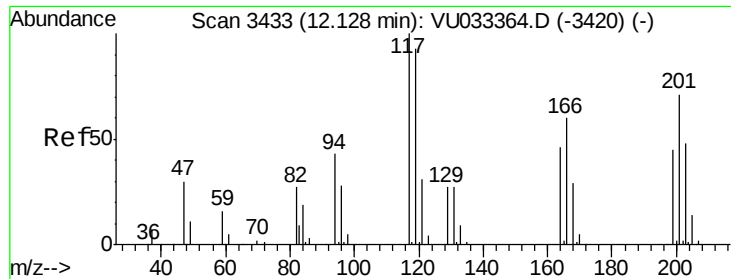
167 81.9 63.4 95.0



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 166.70 (166.40 to 167.40): V





#62

Hexachloroethane

Concen: 0.249 ug/l

RT: 12.13 min Scan# 3435

Delta R.T. 0.01 min

Lab File: VU033370.D

Acq: 23 Jul 2019 10:06

Instrument :

MSVOA_U

ClientSampleId :

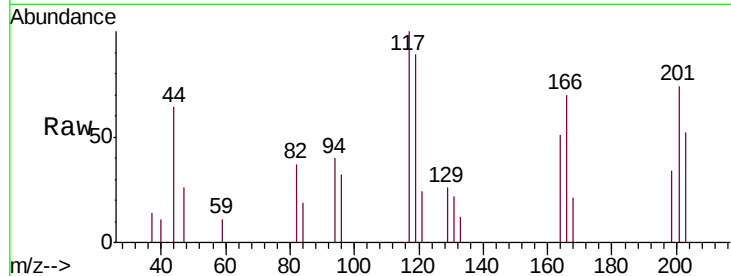
LOD-MDL-WATER-01-QT3-2019

Tgt Ion: 117 Resp: 1644

Ion Ratio Lower Upper

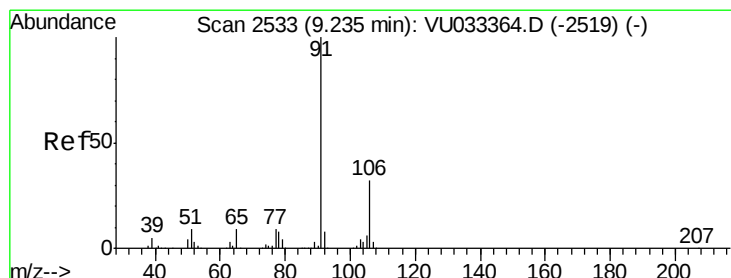
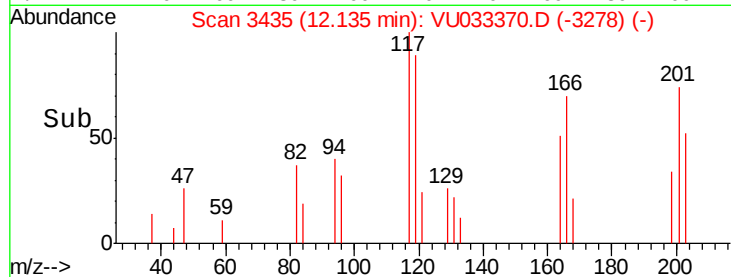
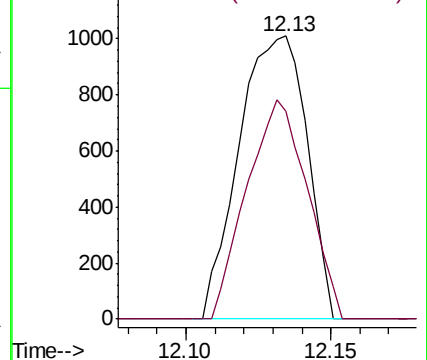
117 100

201 69.1 57.9 86.9



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.60 (200.30 to 201.30): V



#63

Ethyl Benzene

Concen: 0.209 ug/l

RT: 9.23 min Scan# 2533

Delta R.T. -0.00 min

Lab File: VU033370.D

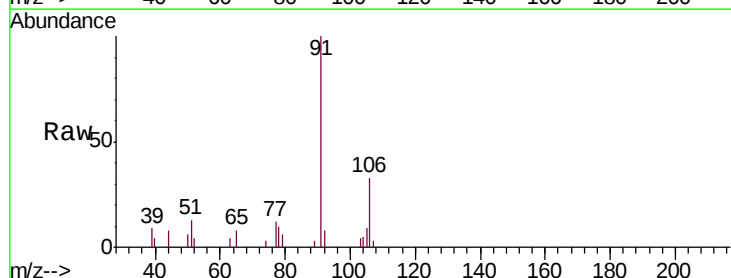
Acq: 23 Jul 2019 10:06

Tgt Ion: 91 Resp: 7332

Ion Ratio Lower Upper

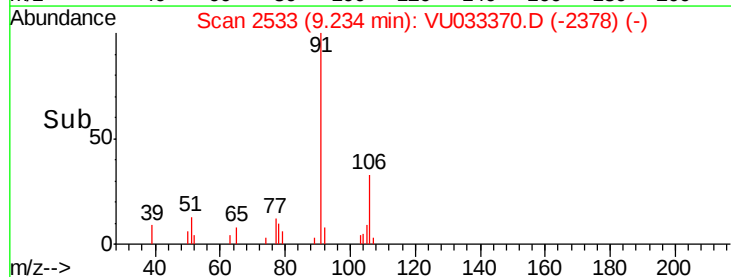
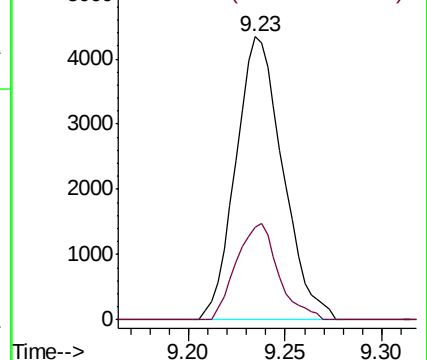
91 100

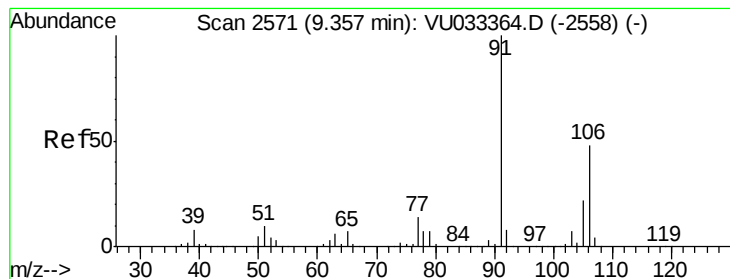
106 32.9 25.4 38.2



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 106.00 (105.70 to 106.70): V





#64

m/p-Xylenes

Concen: 0.382 ug/l

RT: 9.36 min Scan# 2572

Delta R.T. 0.00 min

Lab File: VU033370.D

Acq: 23 Jul 2019 10:06

Instrument :

MSVOA_U

ClientSampleId :

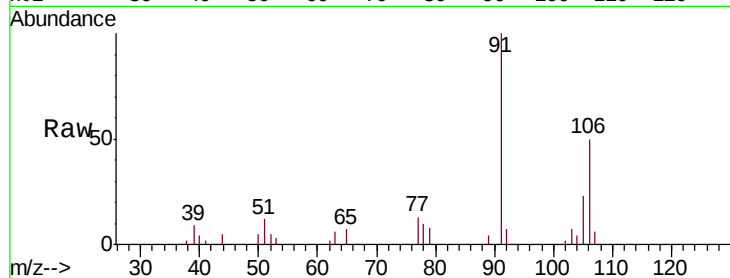
LOD-MDL-WATER-01-QT3-2019

Tgt Ion:106 Resp: 5369

Ion Ratio Lower Upper

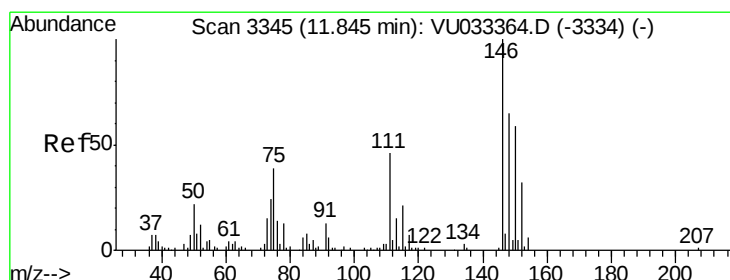
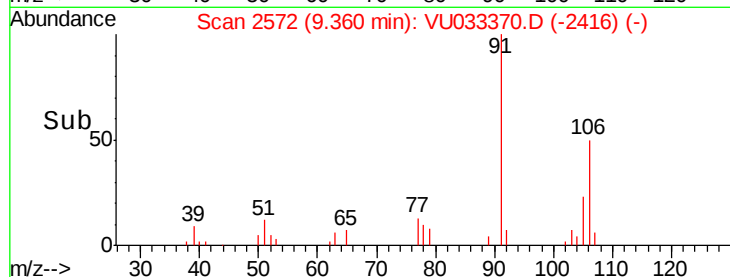
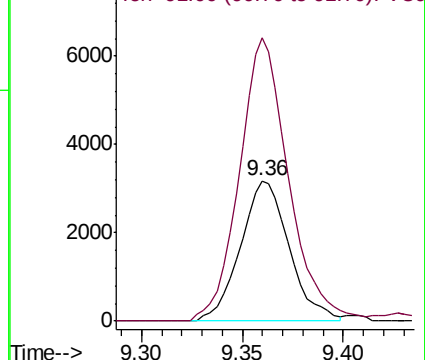
106 100

91 203.5 167.1 250.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#68

1,2-Dichlorobenzene-d4

Concen: 0.929 ug/l

RT: 11.85 min Scan# 3345

Delta R.T. -0.00 min

Lab File: VU033370.D

Acq: 23 Jul 2019 10:06

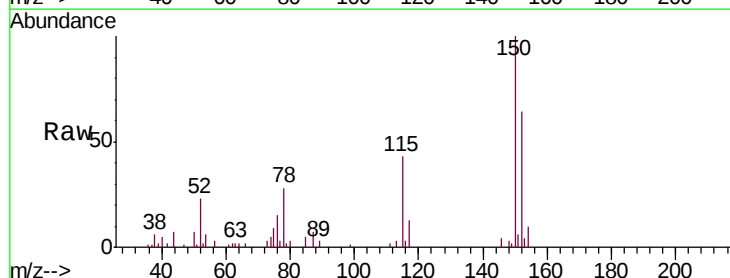
Tgt Ion:152 Resp: 10498

Ion Ratio Lower Upper

152 100

115 67.2 0.0 123.2

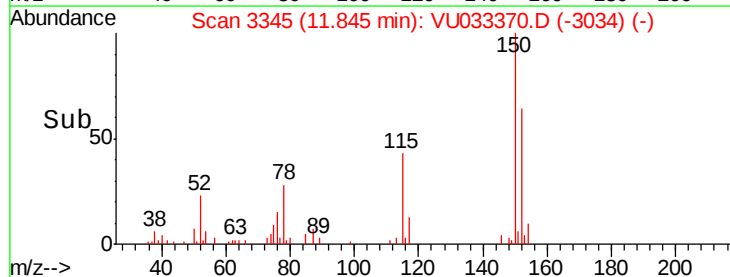
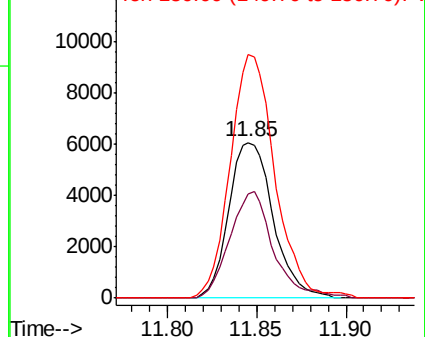
150 157.9 0.0 648.4

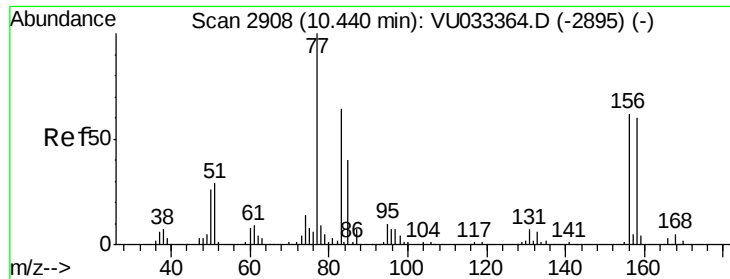


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#70

1,1,2,2-Tetrachloroethane

Concen: 0.225 ug/l

RT: 10.44 min Scan# 2909

Delta R.T. 0.00 min

Lab File: VU033370.D

Acq: 23 Jul 2019 10:06

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

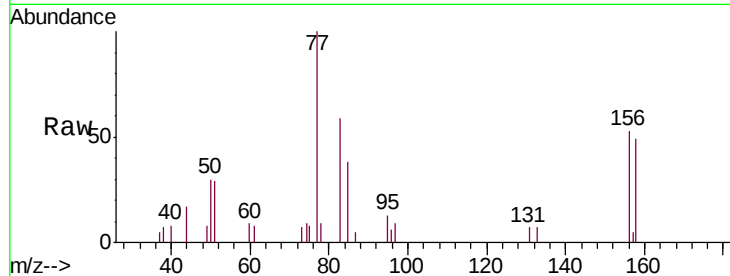
Tgt Ion: 83 Resp: 2028

Ion Ratio Lower Upper

83 100

131 7.1 8.0 12.0#

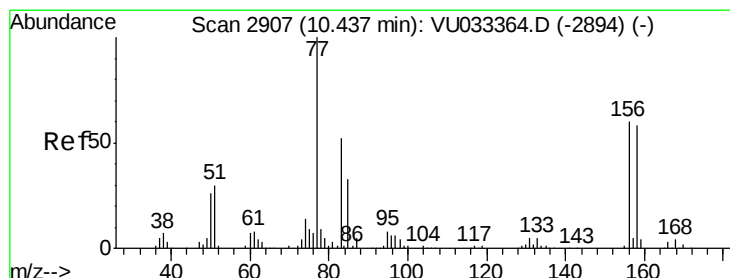
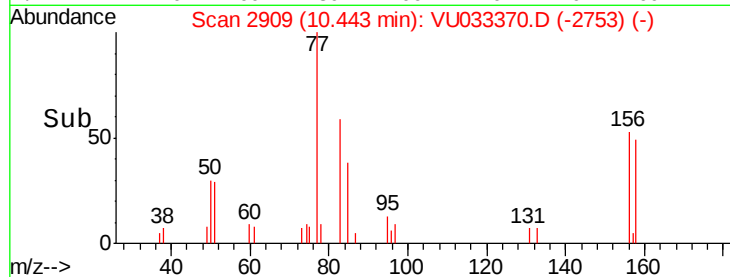
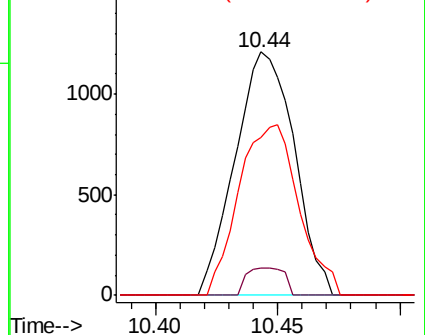
85 71.4 51.8 77.8



Abundance Ion 83.00 (82.70 to 83.70): VU033370.D (-2753) (-)

Ion 131.00 (130.70 to 131.70): VU033370.D (-2753) (-)

Ion 85.00 (84.70 to 85.70): VU033370.D (-2753) (-)



#72

Bromobenzene

Concen: 0.205 ug/l

RT: 10.45 min Scan# 2910

Delta R.T. 0.01 min

Lab File: VU033370.D

Acq: 23 Jul 2019 10:06

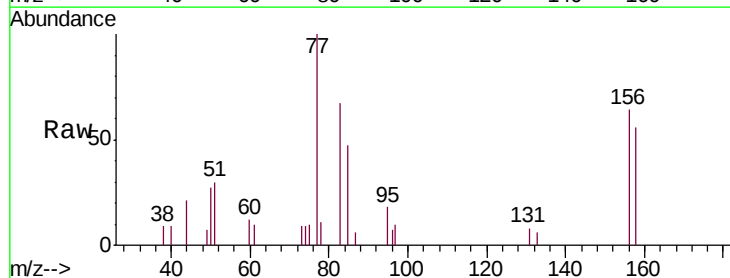
Tgt Ion: 156 Resp: 1874

Ion Ratio Lower Upper

156 100

77 175.7 0.0 324.4

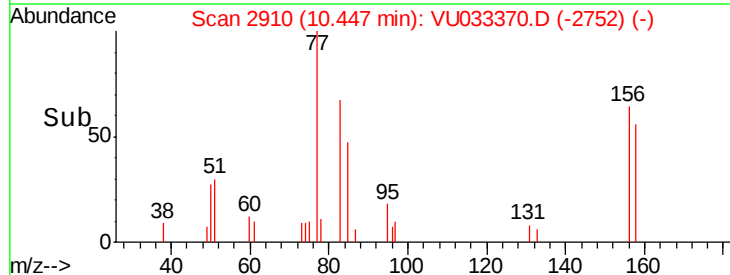
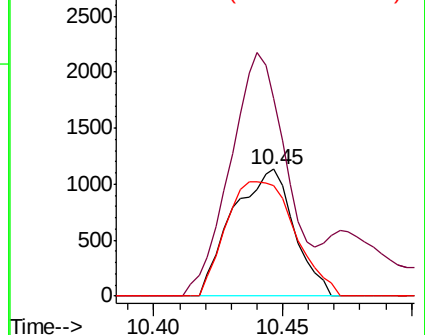
158 101.3 0.0 192.4

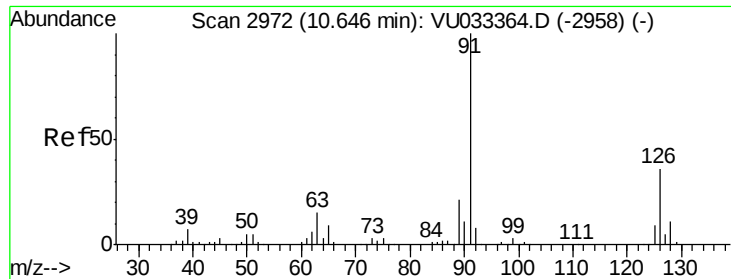


Abundance Ion 156.00 (155.70 to 156.70): VU033370.D (-2752) (-)

Ion 77.00 (76.70 to 77.70): VU033370.D (-2752) (-)

Ion 158.00 (157.70 to 158.70): VU033370.D (-2752) (-)





#74

2-Chlorotoluene

Concen: 0.201 ug/l

RT: 10.65 min Scan# 2973

Delta R.T. 0.00 min

Lab File: VU033370.D

Acq: 23 Jul 2019 10:06

Instrument :

MSVOA_U

ClientSampleId :

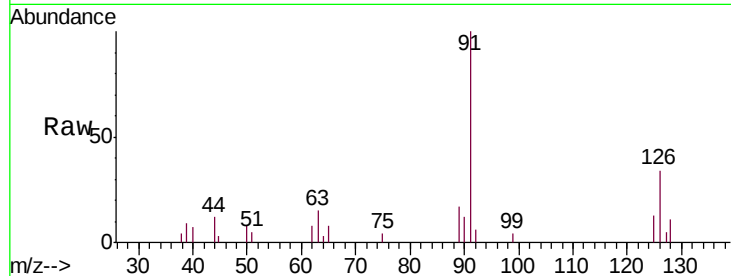
LOD-MDL-WATER-01-QT3-2019

Tgt Ion:126 Resp: 1807

Ion Ratio Lower Upper

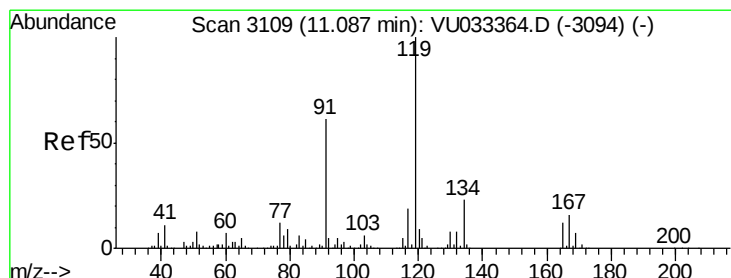
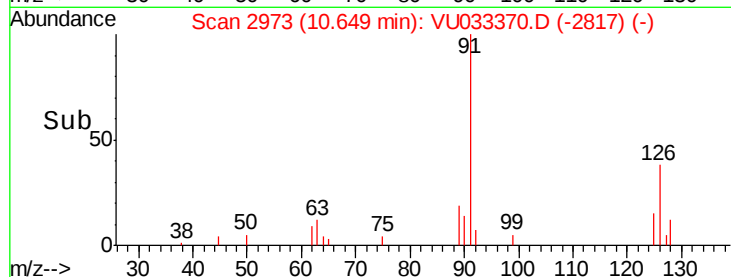
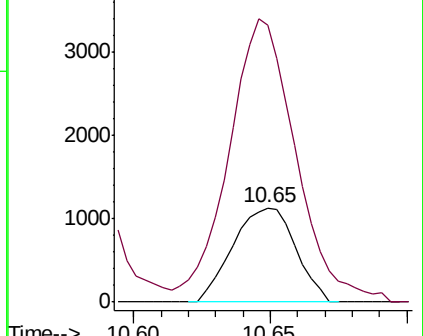
126 100

91 322.1 0.0 598.0



Abundance Ion 126.00 (125.70 to 126.70): V

Ion 91.00 (90.70 to 91.70): VU0



#77

tert-Butylbenzene

Concen: 0.206 ug/l

RT: 11.09 min Scan# 3109

Delta R.T. -0.00 min

Lab File: VU033370.D

Acq: 23 Jul 2019 10:06

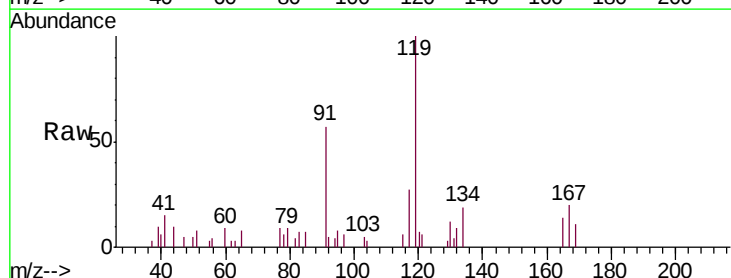
Tgt Ion:119 Resp: 6038

Ion Ratio Lower Upper

119 100

91 57.4 30.4 91.3

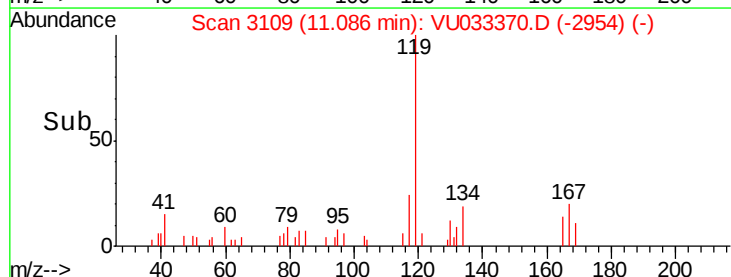
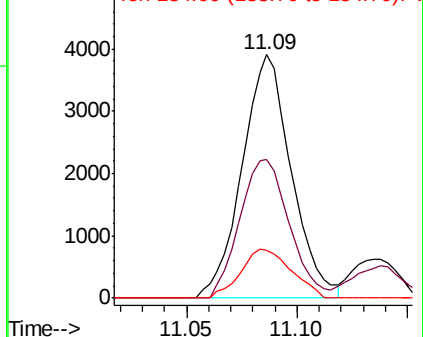
134 20.6 18.5 27.7

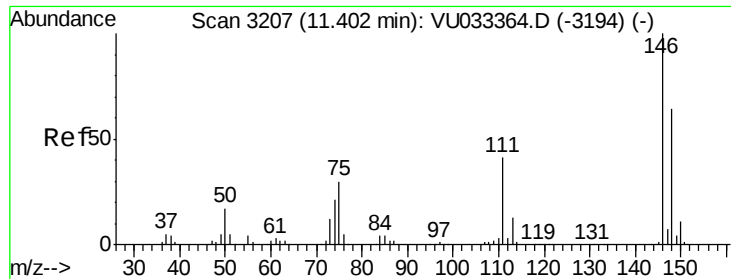


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VU0

Ion 134.00 (133.70 to 134.70): V





#82

1,3-Dichlorobenzene

Concen: 0.212 ug/l

RT: 11.40 min Scan# 3207

Delta R.T. -0.00 min

Lab File: VU033370.D

Acq: 23 Jul 2019 10:06

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

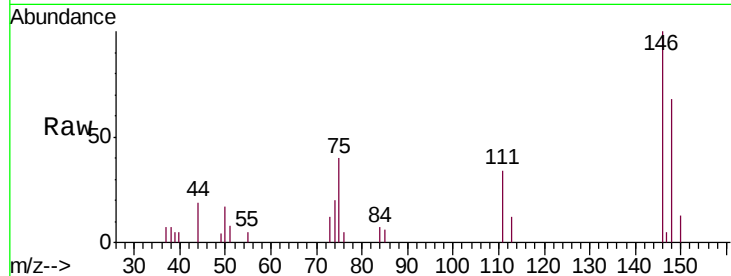
Tgt Ion:146 Resp: 4104

Ion Ratio Lower Upper

146 100

111 41.9 33.3 49.9

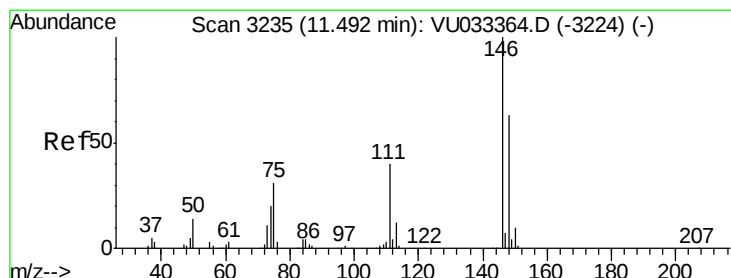
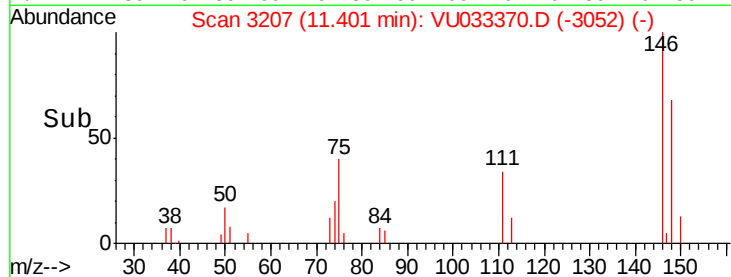
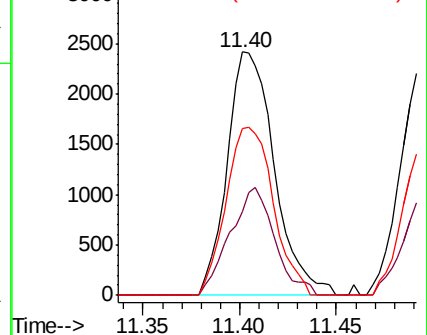
148 69.2 50.8 76.2



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#83

1,4-Dichlorobenzene

Concen: 0.220 ug/l

RT: 11.49 min Scan# 3236

Delta R.T. 0.00 min

Lab File: VU033370.D

Acq: 23 Jul 2019 10:06

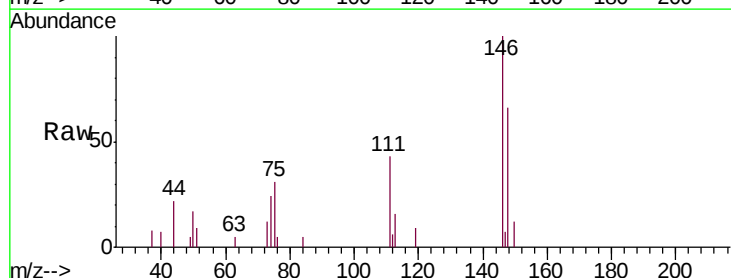
Tgt Ion:146 Resp: 4218

Ion Ratio Lower Upper

146 100

111 39.4 32.2 48.4

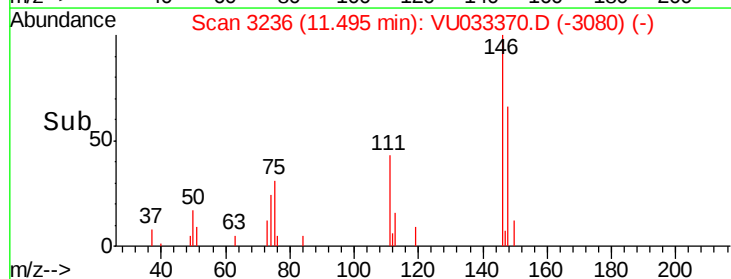
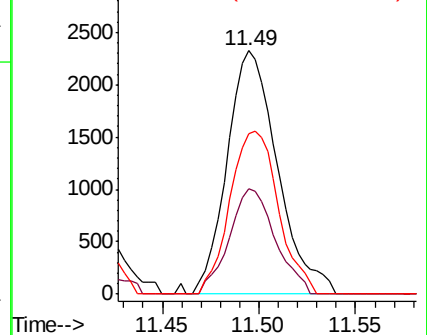
148 64.2 51.0 76.4

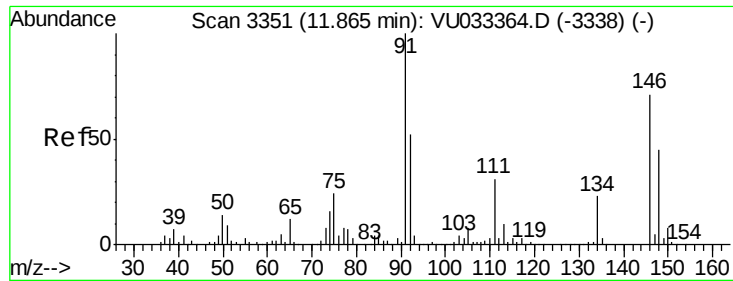


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

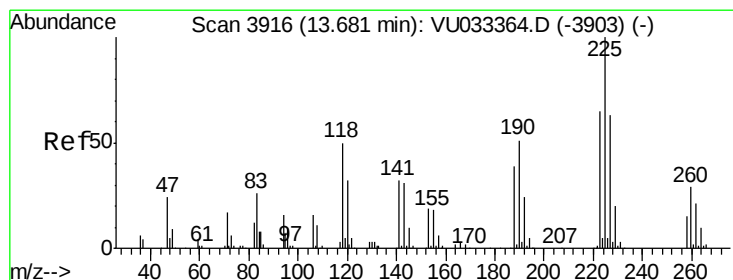
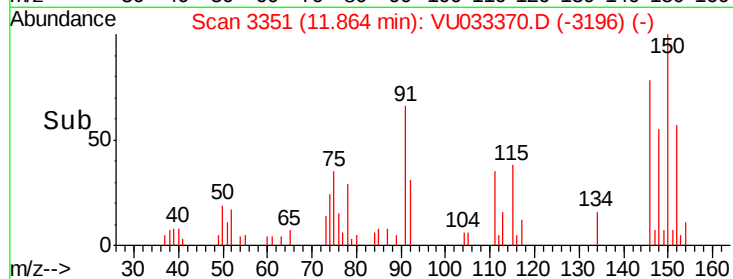
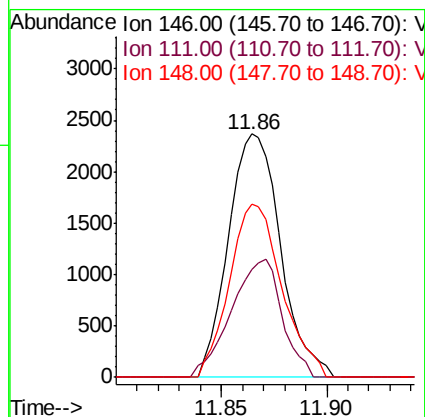
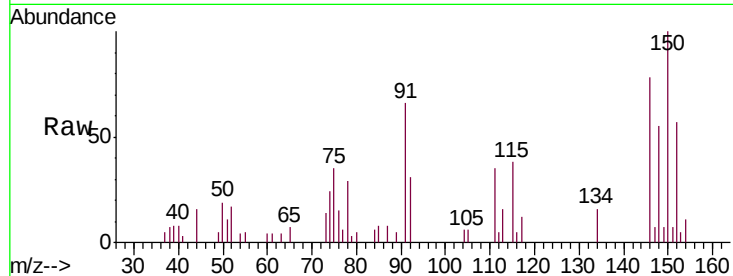




#85
 1,2-Dichlorobenzene
 Concen: 0.223 ug/l
 RT: 11.86 min Scan# 3351
 Delta R.T. -0.00 min
 Lab File: VU033370.D
 Acq: 23 Jul 2019 10:06

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2019

Tgt Ion:146 Resp: 4057
 Ion Ratio Lower Upper
 146 100
 111 47.3 21.7 65.1
 148 71.5 32.0 96.0



#88
 Hexachlorobutadiene
 Concen: 0.240 ug/l
 RT: 13.68 min Scan# 3916
 Delta R.T. -0.00 min
 Lab File: VU033370.D
 Acq: 23 Jul 2019 10:06

Tgt Ion:225 Resp: 1602
 Ion Ratio Lower Upper
 225 100
 223 65.9 52.2 78.4
 227 60.3 51.7 77.5

