

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071218\
 Data File : VU025336.D
 Acq On : 12 Jul 2018 13:30
 Operator : MD/SY
 Sample : J3762-07 LOD/MDL .5PPB
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2018

Quant Time: Jul 13 01:07:26 2018
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U070918W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 10 09:34:16 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	163639	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	243970	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	217649	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	108425	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.31	65	115884	45.58	ug/l	0.00
Spiked Amount			Recovery	=	91.16%	
35) Dibromofluoromethane	4.89	113	88576	43.04	ug/l	0.00
Spiked Amount			Recovery	=	86.08%	
50) Toluene-d8	7.57	98	286900	40.71	ug/l	0.00
Spiked Amount			Recovery	=	81.42%	
62) 4-Bromofluorobenzene	10.31	95	108205	38.14	ug/l	0.00
Spiked Amount			Recovery	=	76.28%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	981	0.58	ug/l	96
3) Chloromethane	1.33	50	1379	1.37	ug/l	89
4) Vinyl Chloride	1.40	62	1159	0.62	ug/l	94
5) Bromomethane	1.63	94	1107	Below Cal		95
6) Chloroethane	1.70	64	978	1.11	ug/l	94
7) Trichlorofluoromethane	1.89	101	1929	0.66	ug/l	94
8) Diethyl Ether	2.11	74	726	0.66	ug/l	67
9) 1,1,2-Trichlorotrifluoroet	2.29	101	1143	0.63	ug/l	95
10) Methyl Iodide	2.41	142	991	8.12	ug/l #	91
11) Tert butyl alcohol	2.83	59	1875	3.38	ug/l #	84
12) 1,1-Dichloroethene	2.29	96	914	0.55	ug/l	82
13) Acrolein	2.20	56	959	2.61	ug/l	84
14) Allyl chloride	2.59	41	1884	0.63	ug/l #	88
15) Acrylonitrile	2.95	53	2947	2.58	ug/l	94
16) Acetone	2.32	43	4225	8.06	ug/l	99
17) Carbon Disulfide	2.48	76	2507	2.43	ug/l #	92
18) Methyl Acetate	2.63	43	1551	0.60	ug/l	93
19) Methyl tert-butyl Ether	3.00	73	3660	0.58	ug/l	98
20) Methylene Chloride	2.70	84	1575	1.48	ug/l	91
21) trans-1,2-Dichloroethene	2.99	96	966	0.51	ug/l	95
22) Diisopropyl ether	3.57	45	3845	0.63	ug/l #	79
23) Vinyl Acetate	3.54	43	15100	2.80	ug/l	99
24) 1,1-Dichloroethane	3.45	63	2055	0.59	ug/l #	83
25) 2-Butanone	4.27	43	4841	2.75	ug/l	91
26) 2,2-Dichloropropane	4.24	77	1748	0.52	ug/l #	70
27) cis-1,2-Dichloroethene	4.23	96	1360	0.62	ug/l	93
29) Tetrahydrofuran	4.65	42	3391	3.21	ug/l #	72
30) Chloroform	4.68	83	2196	0.60	ug/l	85
31) Cyclohexane	4.99	56	3698	1.88	ug/l #	44
32) 1,1,1-Trichloroethane	4.91	97	904	0.27	ug/l #	24
36) 1,1-Dichloropropene	5.15	75	1552	0.57	ug/l #	81
37) Ethyl Acetate	4.39	43	1195	0.40	ug/l #	69
38) Carbon Tetrachloride	5.14	117	1411	0.48	ug/l #	89
39) Methylcyclohexane	6.42	83	1747	0.52	ug/l	97

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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Benzene	5.40	78	4147	0.53	ug/l	93
41) Methacrylonitrile	4.55	41	403	0.24	ug/l #	36
42) 1,2-Dichloroethane	5.41	62	1778	0.57	ug/l	80
43) Isopropyl Acetate	5.55	43	2687	0.55	ug/l #	88
44) Trichloroethene	6.19	130	1168	0.52	ug/l	95
45) 1,2-Dichloropropane	6.44	63	1040	0.51	ug/l	94
46) Dibromomethane	6.57	93	720	0.48	ug/l	94
47) Bromodichloromethane	6.76	83	1523	0.55	ug/l #	94
48) Methyl methacrylate	6.64	41	1251	0.52	ug/l	87
49) 1,4-Dioxane	6.63	88	619	10.65	ug/l #	50
51) 4-Methyl-2-Pentanone	7.46	43	8502	2.70	ug/l	100
52) Toluene	7.64	92	2653	0.53	ug/l	91
53) t-1,3-Dichloropropene	7.89	75	1320	0.43	ug/l #	69
54) cis-1,3-Dichloropropene	7.27	75	1613	0.50	ug/l	96
55) 1,1,2-Trichloroethane	8.08	97	933	0.45	ug/l #	88
56) Ethyl methacrylate	8.03	69	1683	0.52	ug/l	94
57) 1,3-Dichloropropane	8.25	76	1814	0.53	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.14	63	1996	12.31	ug/l	98
59) 2-Hexanone	8.37	43	6664	2.61	ug/l	92
60) Dibromochloromethane	8.48	129	1023	0.46	ug/l	95
61) 1,2-Dibromoethane	8.59	107	1023	0.46	ug/l #	75
64) Tetrachloroethene	8.23	164	1032	0.52	ug/l	96
65) Chlorobenzene	9.12	112	3221	0.59	ug/l	96
66) 1,1,1,2-Tetrachloroethane	9.21	131	1053	0.54	ug/l #	65
67) Ethyl Benzene	9.26	91	5025	0.54	ug/l	98
68) m/p-Xylenes	9.38	106	3651	1.02	ug/l	95
69) o-Xylene	9.79	106	1884	0.53	ug/l	86
70) Styrene	9.80	104	2466	0.43	ug/l	96
71) Bromoform	9.96	173	777	4.97	ug/l #	81
73) Isopropylbenzene	10.17	105	4912	0.59	ug/l	95
74) N-amyl acetate	10.02	43	2418	1.96	ug/l #	79
75) 1,1,2,2-Tetrachloroethane	10.46	83	1898	0.70	ug/l	86
76) 1,2,3-Trichloropropane	10.50	75	1938	1.75	ug/l #	58
77) Bromobenzene	10.45	156	1207	0.57	ug/l	89
78) n-propylbenzene	10.60	91	4877	0.53	ug/l	94
79) 2-Chlorotoluene	10.66	91	3799	0.86	ug/l	93
80) 1,3,5-Trimethylbenzene	10.78	105	4036	0.58	ug/l	93
81) trans-1,4-Dichloro-2-buten	10.50	75	1938	2.24	ug/l #	100
82) 4-Chlorotoluene	10.78	91	3749	0.58	ug/l	88
83) tert-Butylbenzene	11.10	119	4193	0.60	ug/l	97
84) 1,2,4-Trimethylbenzene	11.15	105	3811	0.53	ug/l	99
85) sec-Butylbenzene	11.33	105	4167	0.50	ug/l	88
86) p-Isopropyltoluene	11.48	119	3888	0.53	ug/l	89
87) 1,3-Dichlorobenzene	11.42	146	2144	0.55	ug/l	98
88) 1,4-Dichlorobenzene	11.42	146	2144	2.04	ug/l	99
89) n-Butylbenzene	11.90	91	2522	0.42	ug/l	99
90) Hexachloroethane	12.15	117	497	0.40	ug/l	88
91) 1,2-Dichlorobenzene	11.89	146	2026	0.52	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	12.66	75	348	0.53	ug/l	58
93) 1,2,4-Trichlorobenzene	13.52	180	886	3.60	ug/l #	52

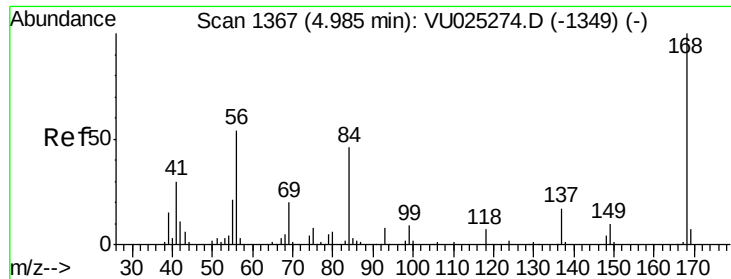
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071218\
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Quant Title : SW846 8260
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) Hexachlorobutadiene	13.70	225	623	0.45	ug/l	83
95) Naphthalene	13.76	128	2661	2.73	ug/l #	86
96) 1,2,3-Trichlorobenzene	13.99	180	1070	2.91	ug/l #	18

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VU025336.D

Acq: 12 Jul 2018 13:30

Instrument :

MSVOA_U

ClientSampleId :

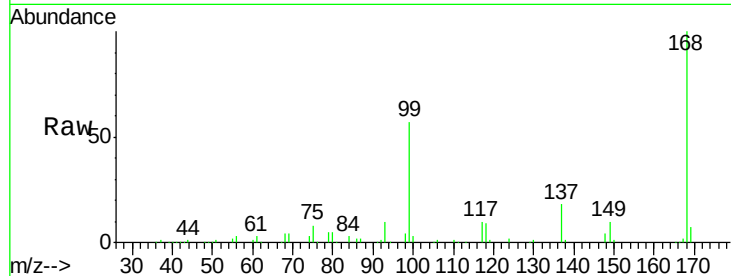
LOD-MDL-WATER-01-QT3-2018

Tot Ion:168 Resp: 163639

Ion Ratio Lower Upper

168 100

99 56.4 42.8 64.2



Abundance Ion 167.90 (167.60 to 168.60): VU025274.D (-1349) (-)

Ion 98.90 (98.60 to 99.60): VU025274.D (-1349) (-)

4.99

80000

60000

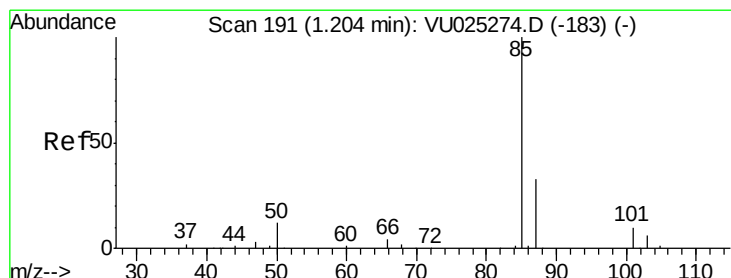
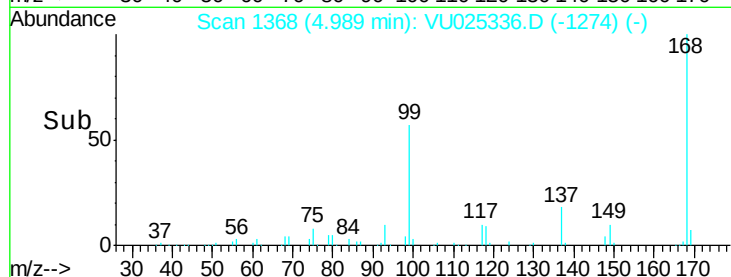
40000

20000

0

4.90 5.00 5.10

Time-->



#2

Dichlorodifluoromethane

Concen: 0.58 ug/l

RT: 1.20 min Scan# 191

Delta R.T. -0.00 min

Lab File: VU025336.D

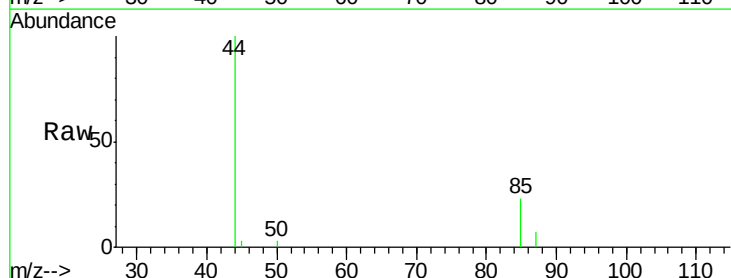
Acq: 12 Jul 2018 13:30

Tgt Ion: 85 Resp: 981

Ion Ratio Lower Upper

85 100

87 30.6 16.5 49.5



Abundance Ion 84.90 (84.60 to 85.60): VU025274.D (-183) (-)

Ion 86.90 (86.60 to 87.60): VU025274.D (-183) (-)

1.20

1200

1000

800

600

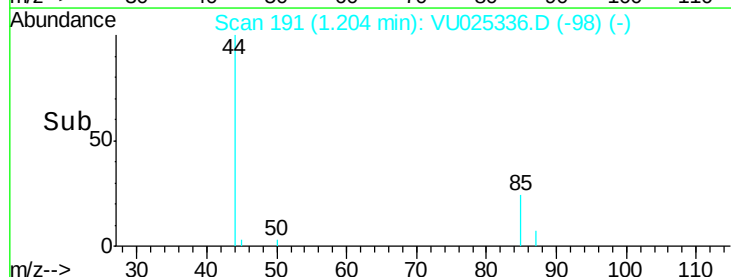
400

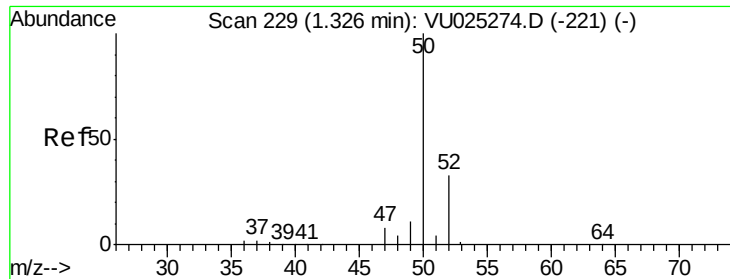
200

0

1.18 1.20 1.22 1.24

Time-->





#3

Chloromethane

Concen: 1.37 ug/l

RT: 1.33 min Scan# 229

Delta R.T. 0.00 min

Lab File: VU025336.D

Acq: 12 Jul 2018 13:30

Instrument :

MSVOA_U

ClientSampleId :

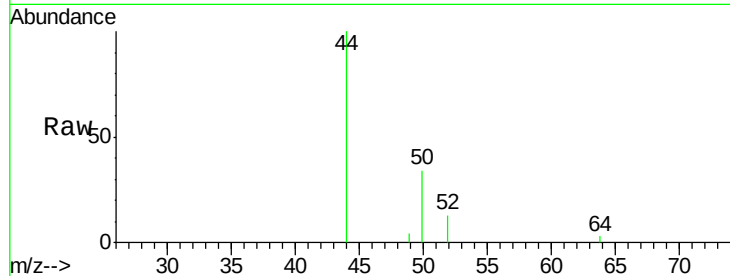
LOD-MDL-WATER-01-QT3-2018

Tot Ion: 50 Resp: 1379

Ion Ratio Lower Upper

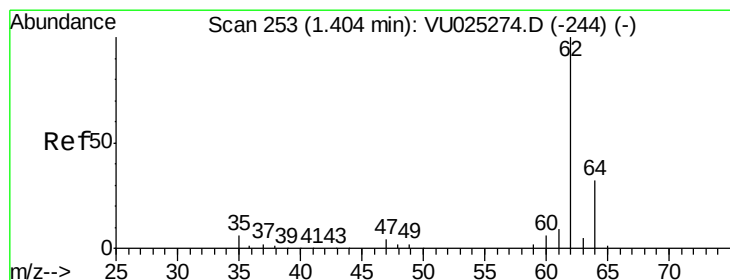
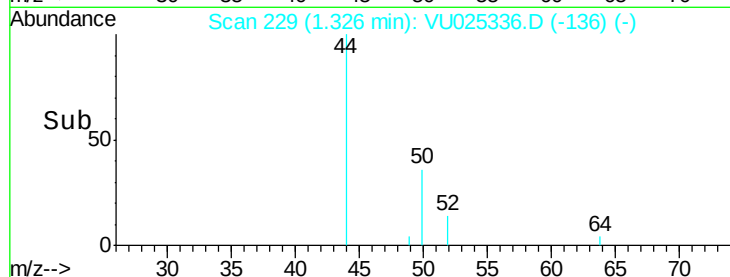
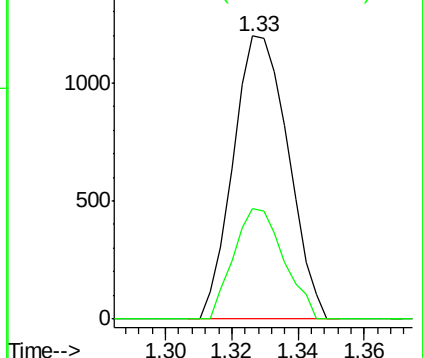
50 100

52 39.2 26.5 39.7



Abundance Ion 49.90 (49.60 to 50.60): VU0

Ion 51.90 (51.60 to 52.60): VU0



#4

Vinyl Chloride

Concen: 0.62 ug/l

RT: 1.40 min Scan# 253

Delta R.T. -0.00 min

Lab File: VU025336.D

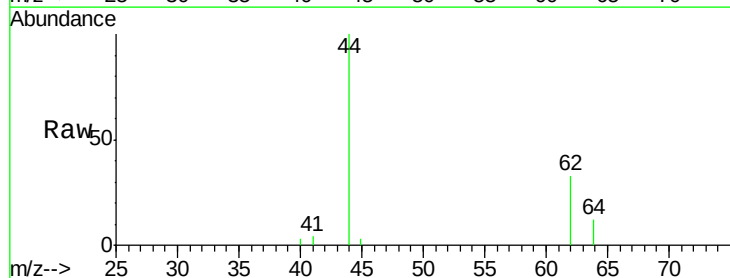
Acq: 12 Jul 2018 13:30

Tgt Ion: 62 Resp: 1159

Ion Ratio Lower Upper

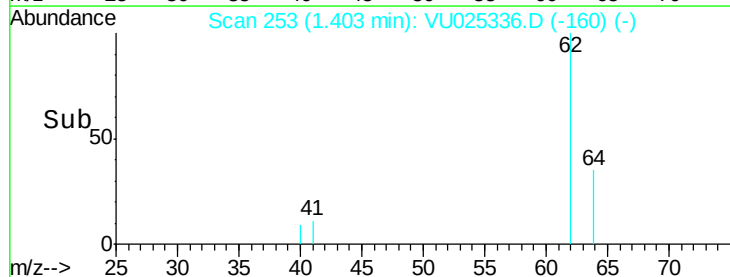
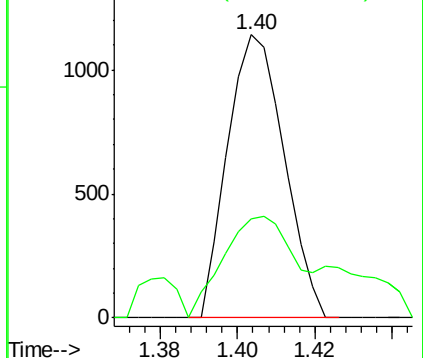
62 100

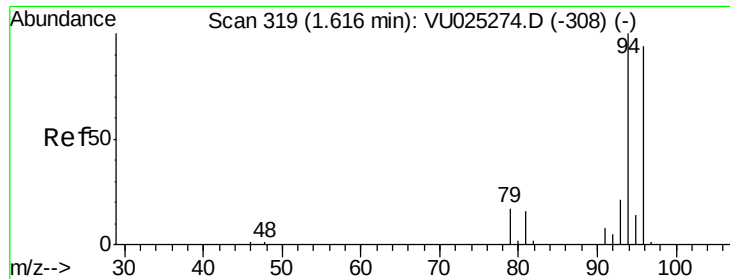
64 34.8 25.4 38.0



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 63.90 (63.60 to 64.60): VU0





#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 322

Delta R.T. 0.01 min

Lab File: VU025336.D

Acq: 12 Jul 2018 13:30

Instrument :

MSVOA_U

ClientSampleId :

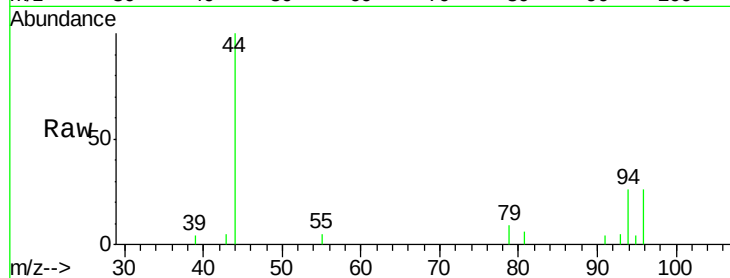
LOD-MDL-WATER-01-QT3-2018

Tot Ion: 94 Resp: 1107

Ion Ratio Lower Upper

94 100

96 98.8 75.0 112.4



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0

1.63

800

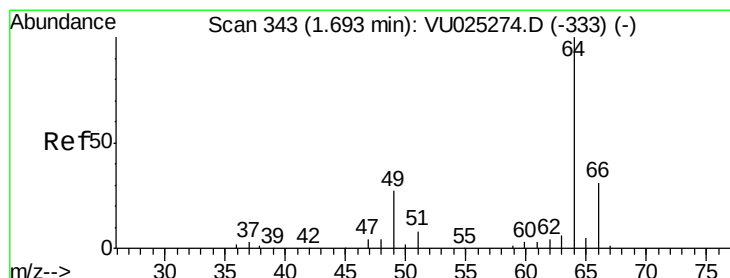
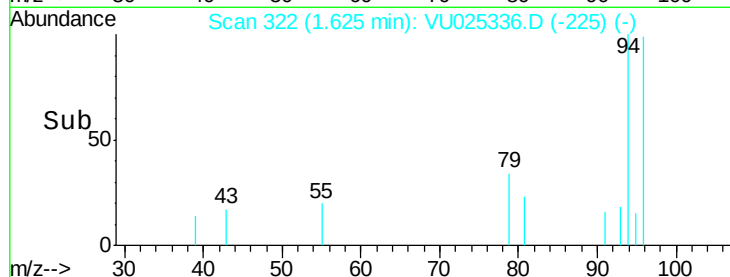
600

400

200

0

Time-->



#6

Chloroethane

Concen: 1.11 ug/l

RT: 1.70 min Scan# 346

Delta R.T. 0.01 min

Lab File: VU025336.D

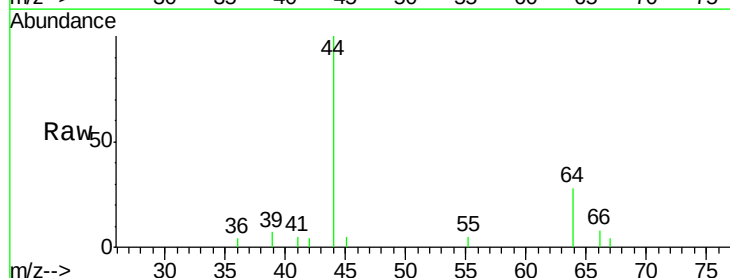
Acq: 12 Jul 2018 13:30

Tgt Ion: 64 Resp: 978

Ion Ratio Lower Upper

64 100

66 27.7 25.0 37.4



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0

1.70

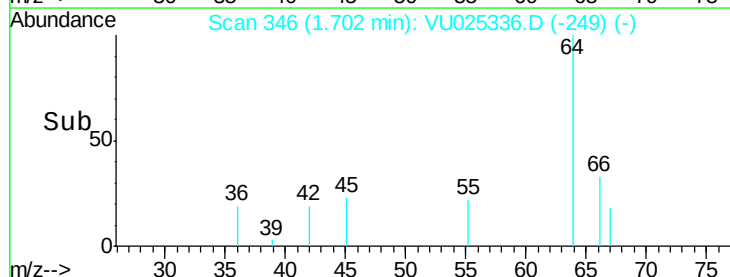
600

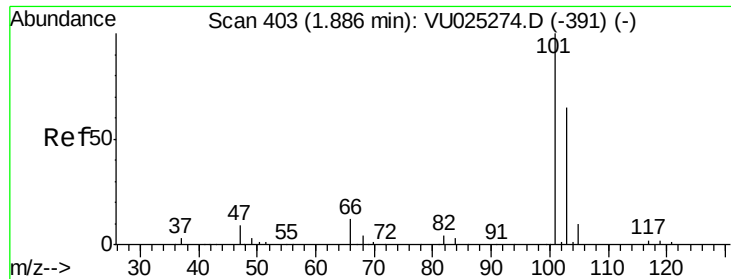
400

200

0

Time-->





#7

Trichlorofluoromethane

Concen: 0.66 ug/l

RT: 1.89 min Scan# 403

Delta R.T. -0.00 min

Lab File: VU025336.D

Acq: 12 Jul 2018 13:30

Instrument :

MSVOA_U

ClientSampleId :

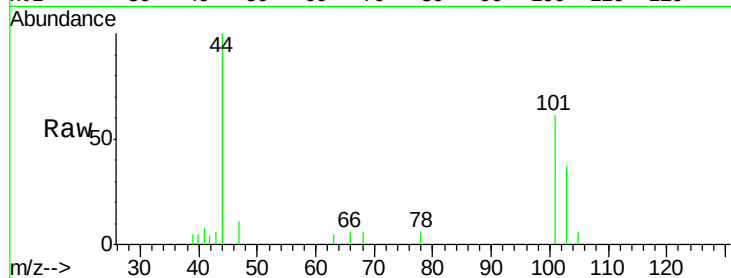
LOD-MDL-WATER-01-QT3-2018

Tot Ion:101 Resp: 1929

Ion Ratio Lower Upper

101 100

103 60.9 52.2 78.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V

1.89

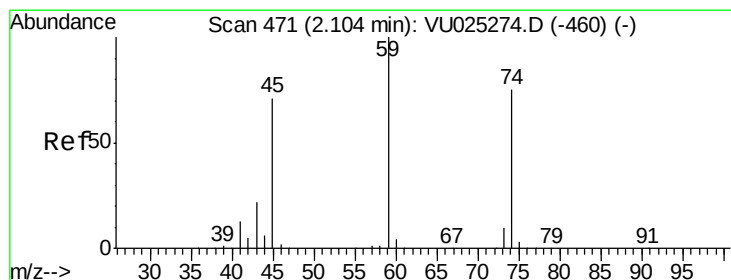
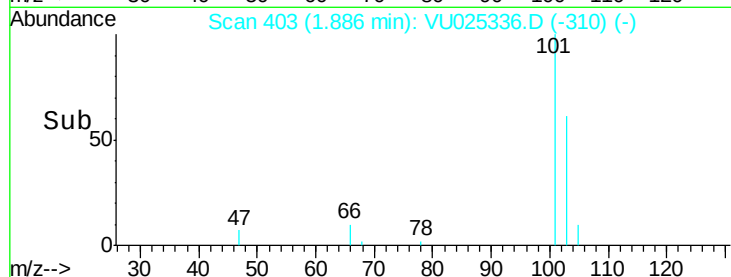
1500

1000

500

0

Time-->



#8

Diethyl Ether

Concen: 0.66 ug/l

RT: 2.11 min Scan# 472

Delta R.T. 0.00 min

Lab File: VU025336.D

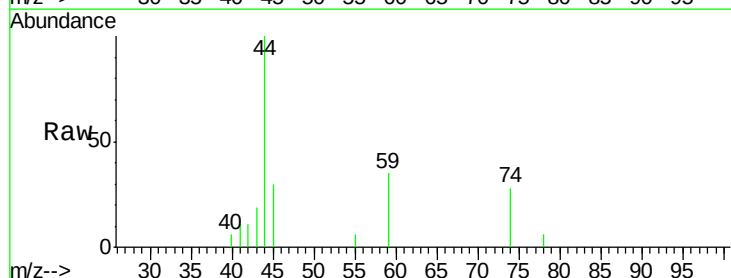
Acq: 12 Jul 2018 13:30

Tgt Ion: 74 Resp: 726

Ion Ratio Lower Upper

74 100

45 129.3 48.3 144.9



Abundance Ion 74.00 (73.70 to 74.70): VU0

Ion 45.00 (44.70 to 45.70): VU0

2.11

600

500

400

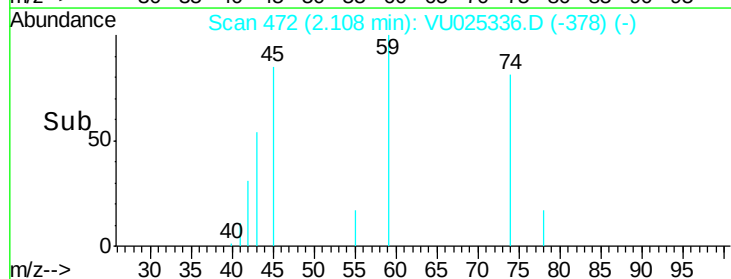
300

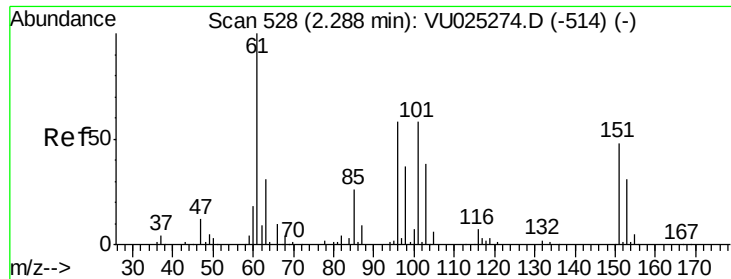
200

100

0

Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.63 ug/l

RT: 2.29 min Scan# 528

Delta R.T. -0.00 min

Lab File: VU025336.D

Acq: 12 Jul 2018 13:30

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

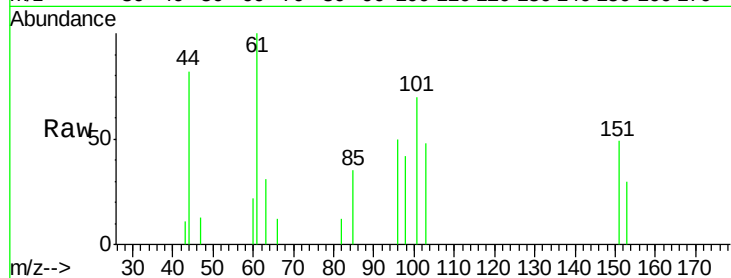
Tot Ion:101 Resp: 1143

Ion Ratio Lower Upper

101 100

85 48.5 36.0 54.0

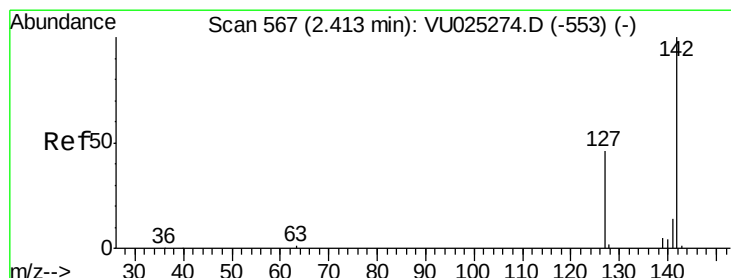
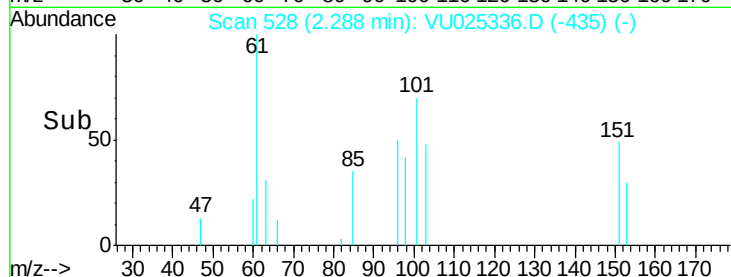
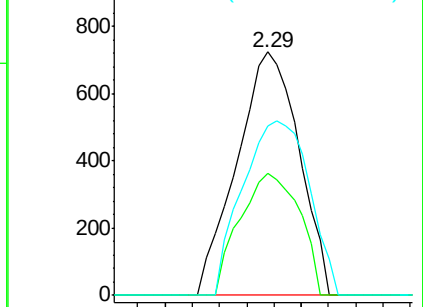
151 77.2 65.6 98.4



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): V

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 8.12 ug/l

RT: 2.41 min Scan# 567

Delta R.T. 0.00 min

Lab File: VU025336.D

Acq: 12 Jul 2018 13:30

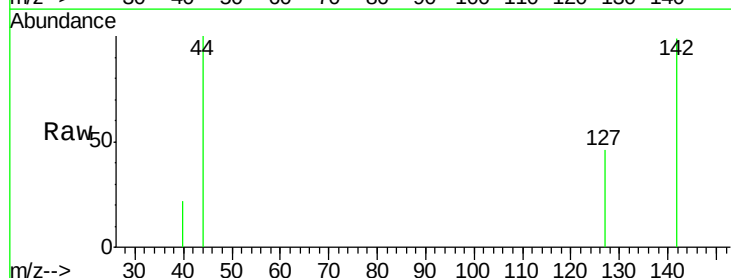
Tgt Ion:142 Resp: 991

Ion Ratio Lower Upper

142 100

127 45.3 36.5 54.7

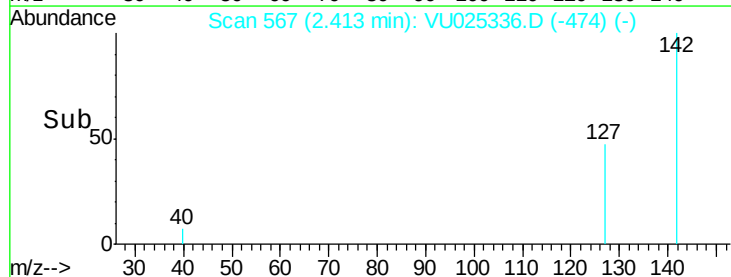
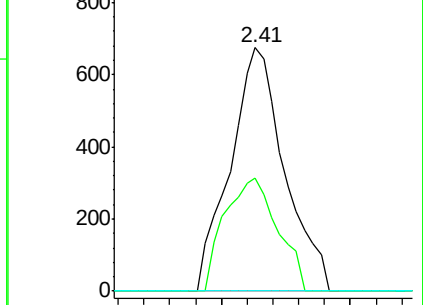
141 0.0 11.4 17.2#

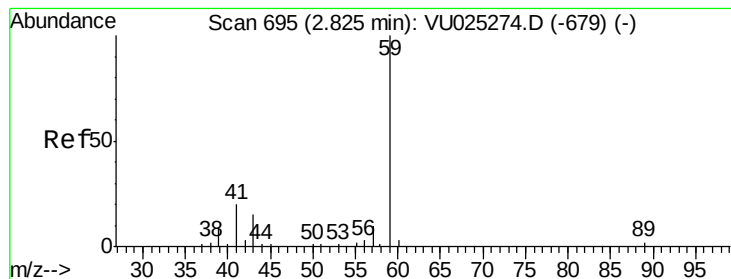


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



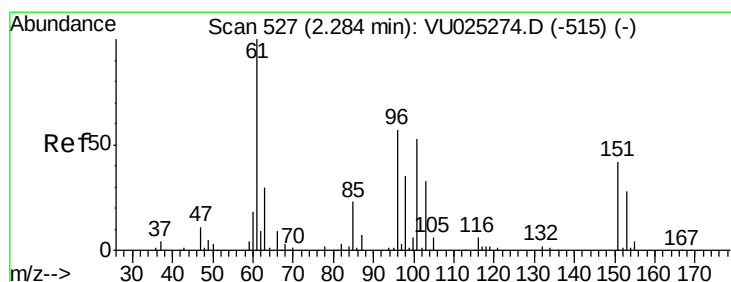
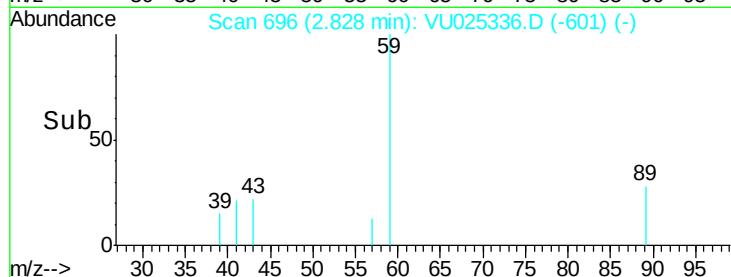
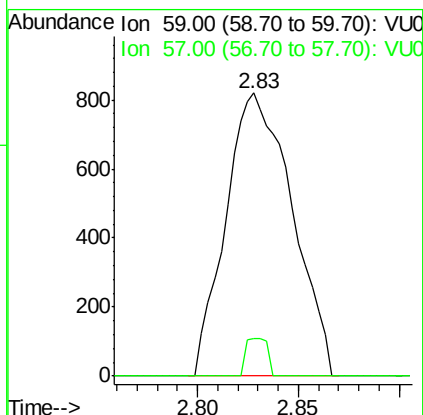
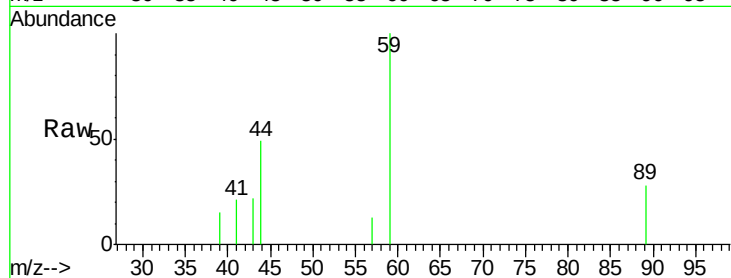


#11

Tert butyl alcohol
 Concen: 3.38 ug/l
 RT: 2.83 min Scan# 696
 Delta R.T. 0.00 min
 Lab File: VU025336.D
 Acq: 12 Jul 2018 13:30

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2018

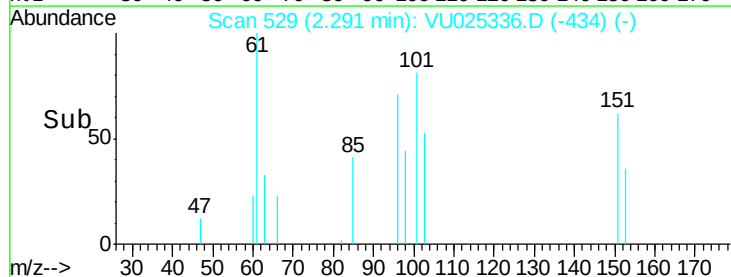
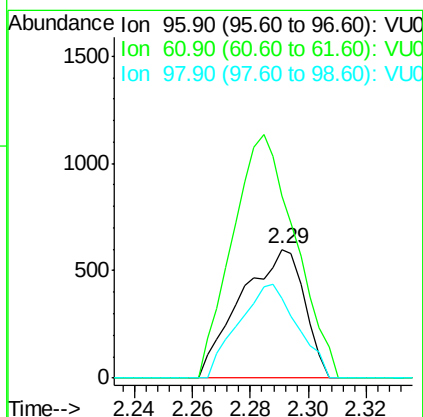
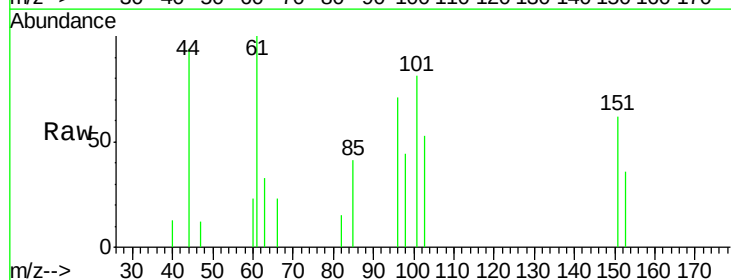
Tot Ion: 59 Resp: 1875
 Ion Ratio Lower Upper
 59 100
 57 4.4 8.2 12.2#

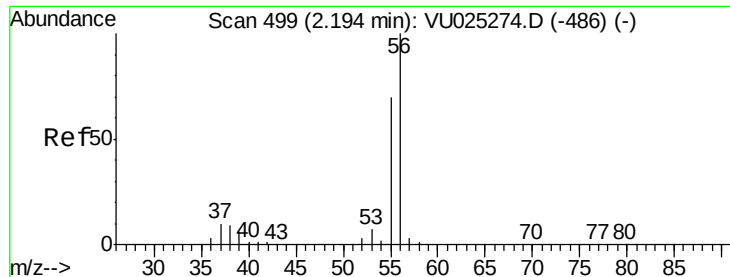


#12

1,1-Dichloroethene
 Concen: 0.55 ug/l
 RT: 2.29 min Scan# 529
 Delta R.T. 0.01 min
 Lab File: VU025336.D
 Acq: 12 Jul 2018 13:30

Tgt Ion: 96 Resp: 914
 Ion Ratio Lower Upper
 96 100
 61 141.2 140.2 210.4
 98 61.9 49.3 73.9





#13

Acrolein

Concen: 2.61 ug/l

RT: 2.20 min Scan# 500

Delta R.T. 0.00 min

Lab File: VU025336.D

Acq: 12 Jul 2018 13:30

Instrument :

MSVOA_U

ClientSampleId :

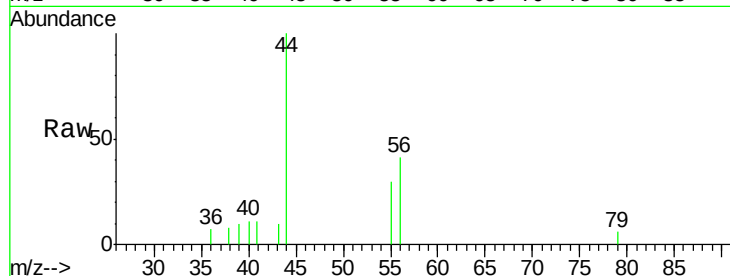
LOD-MDL-WATER-01-QT3-2018

Tot Ion: 56 Resp: 959

Ion Ratio Lower Upper

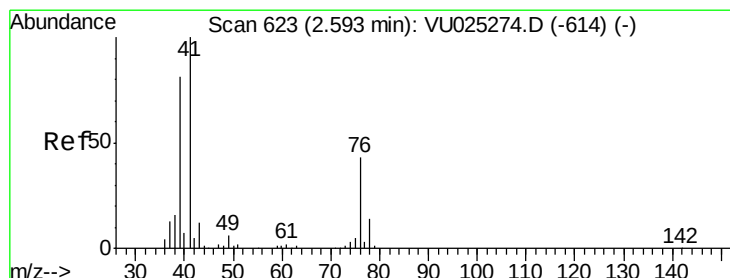
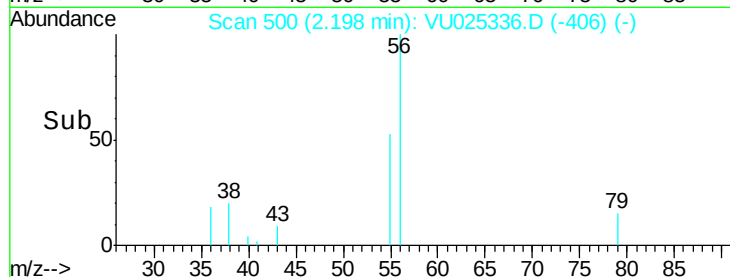
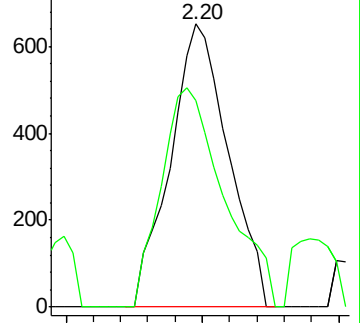
56 100

55 85.2 57.2 85.8



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 55.00 (54.70 to 55.70): VU0



#14

Allyl chloride

Concen: 0.63 ug/l

RT: 2.59 min Scan# 622

Delta R.T. -0.00 min

Lab File: VU025336.D

Acq: 12 Jul 2018 13:30

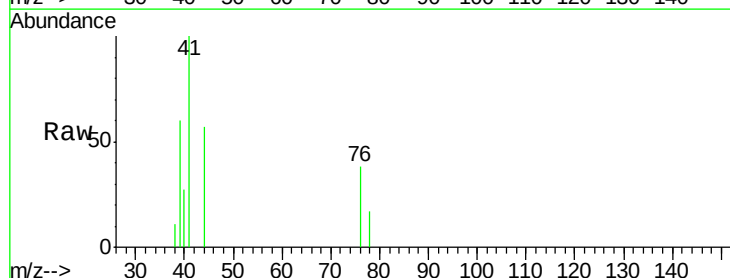
Tgt Ion: 41 Resp: 1884

Ion Ratio Lower Upper

41 100

39 68.4 60.6 91.0

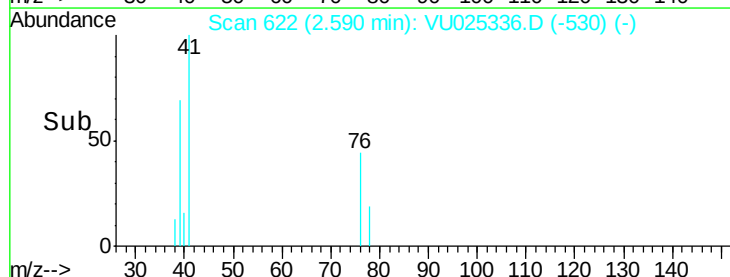
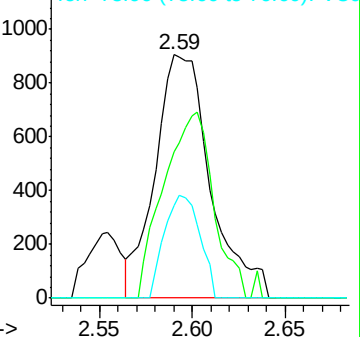
76 27.0 30.5 45.7#

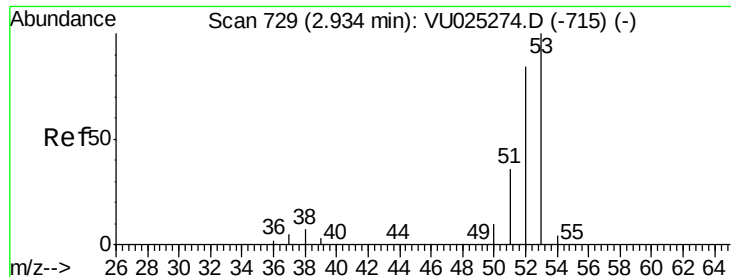


Abundance Ion 41.00 (40.70 to 41.70): VU0

Ion 39.00 (38.70 to 39.70): VU0

Ion 75.90 (75.60 to 76.60): VU0





#15

Acrylonitrile

Concen: 2.58 ug/l

RT: 2.95 min Scan# 734

Delta R.T. 0.02 min

Lab File: VU025336.D

Acq: 12 Jul 2018 13:30

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

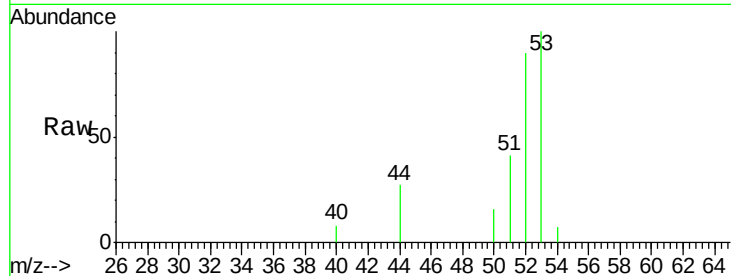
Tot Ion: 53 Resp: 2947

Ion Ratio Lower Upper

53 100

52 91.1 66.6 99.8

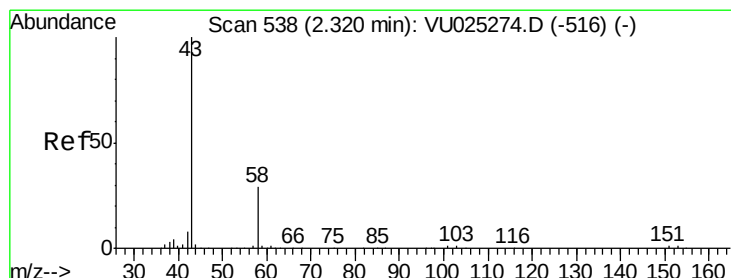
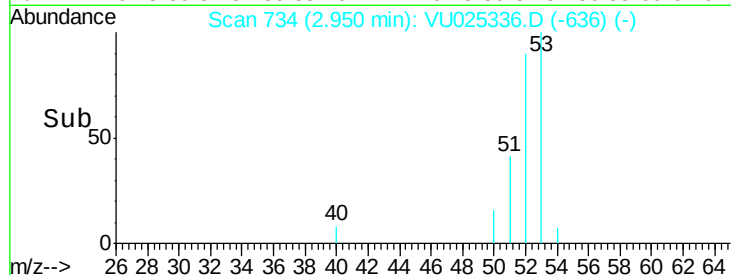
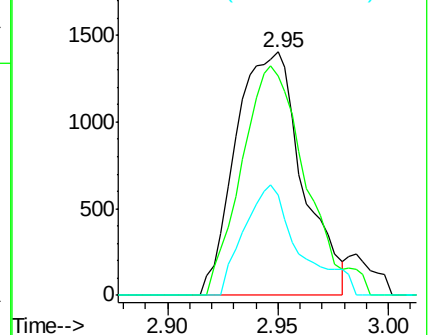
51 37.5 29.4 44.2



Abundance Ion 53.00 (52.70 to 53.70): VU0

Ion 52.00 (51.70 to 52.70): VU0

Ion 51.00 (50.70 to 51.70): VU0



#16

Acetone

Concen: 8.06 ug/l

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU025336.D

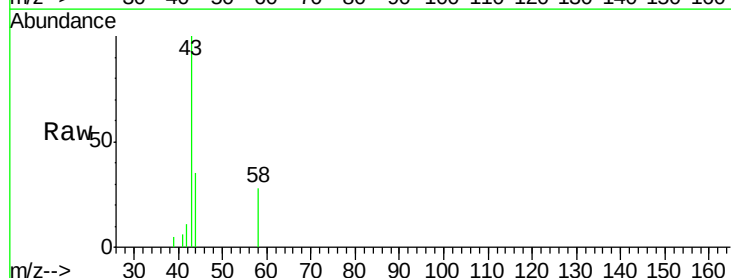
Acq: 12 Jul 2018 13:30

Tgt Ion: 43 Resp: 4225

Ion Ratio Lower Upper

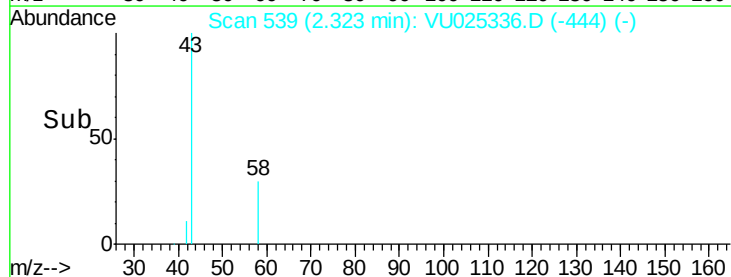
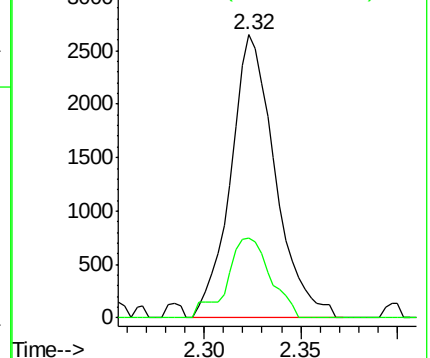
43 100

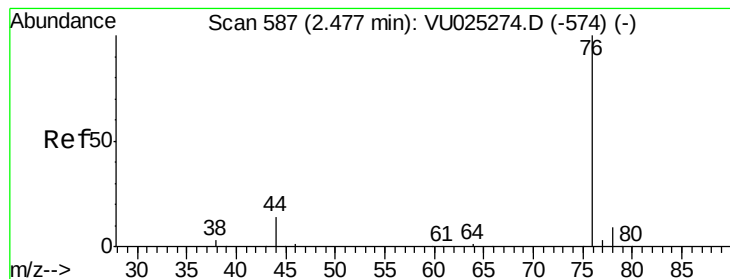
58 28.2 23.1 34.7



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0





#17

Carbon Disulfide

Concen: 2.43 ug/l

RT: 2.48 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU025336.D

Acq: 12 Jul 2018 13:30

Instrument :

MSVOA_U

ClientSampleId :

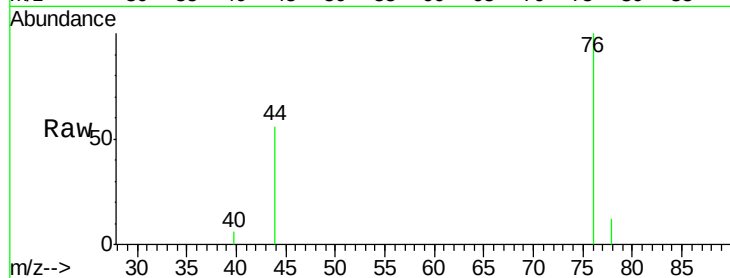
LOD-MDL-WATER-01-QT3-2018

Tot Ion: 76 Resp: 2507

Ion Ratio Lower Upper

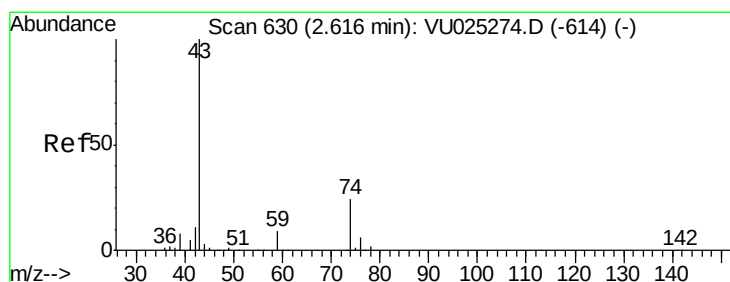
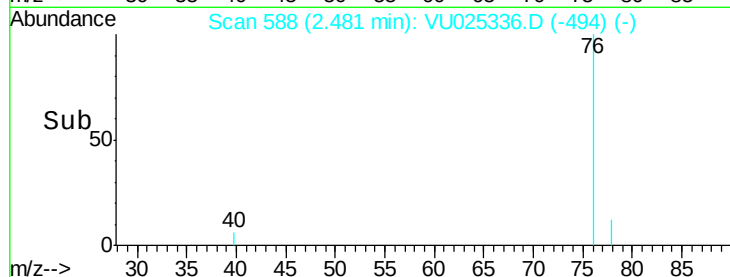
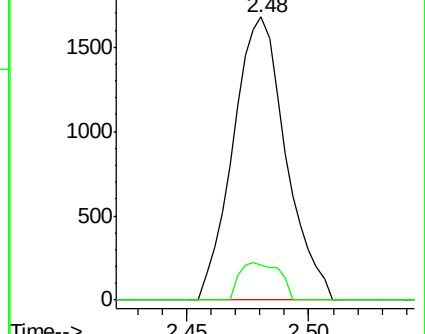
76 100

78 12.3 7.4 11.2#



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0



#18

Methyl Acetate

Concen: 0.60 ug/l

RT: 2.63 min Scan# 633

Delta R.T. 0.01 min

Lab File: VU025336.D

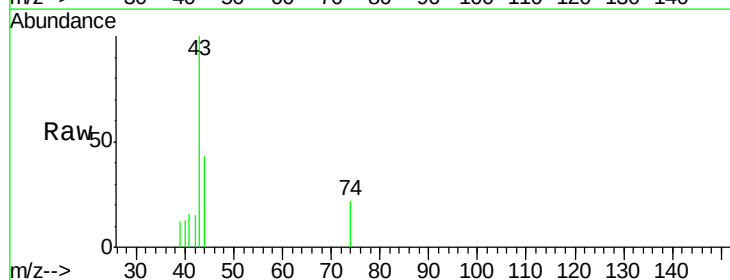
Acq: 12 Jul 2018 13:30

Tgt Ion: 43 Resp: 1551

Ion Ratio Lower Upper

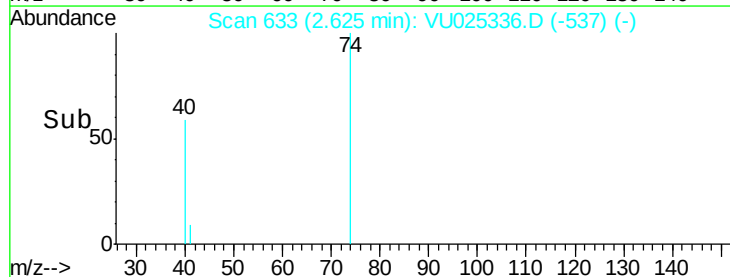
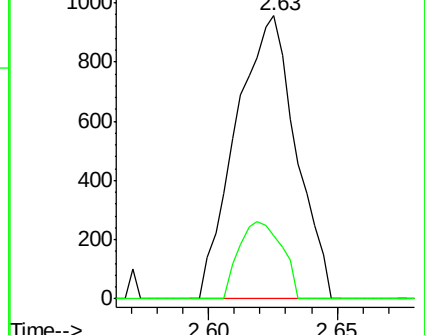
43 100

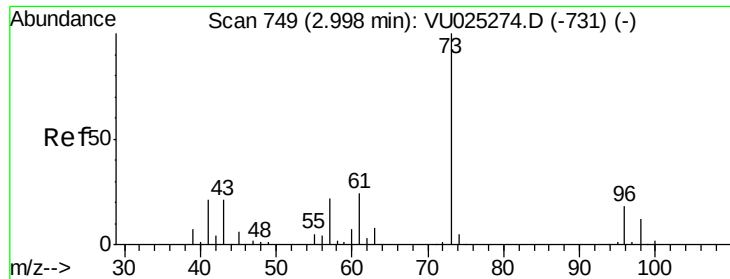
74 19.6 18.5 27.7



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0

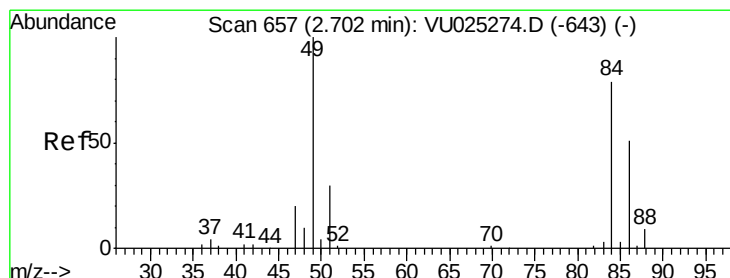
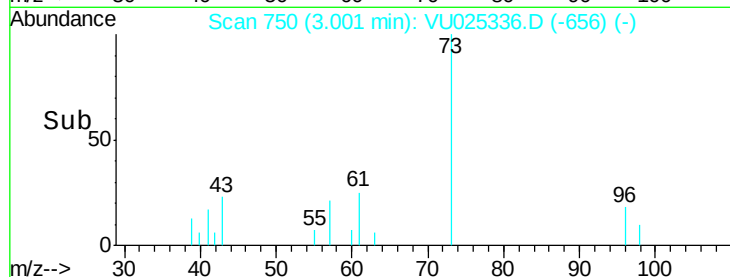
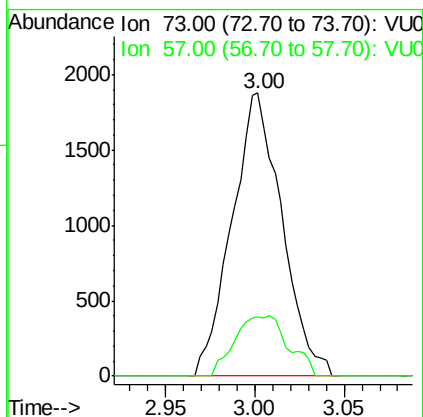
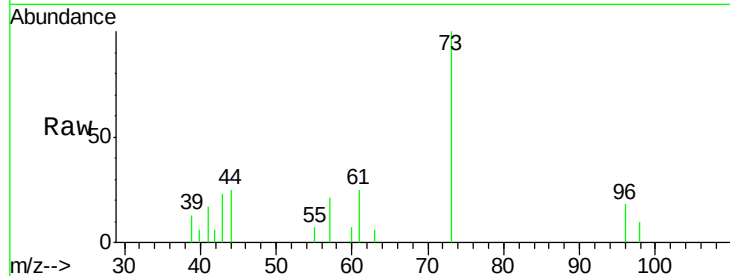




#19
Methyl tert-butyl Ether
Concen: 0.58 ug/l
RT: 3.00 min Scan# 750
Delta R.T. 0.00 min
Lab File: VU025336.D
Acq: 12 Jul 2018 13:30

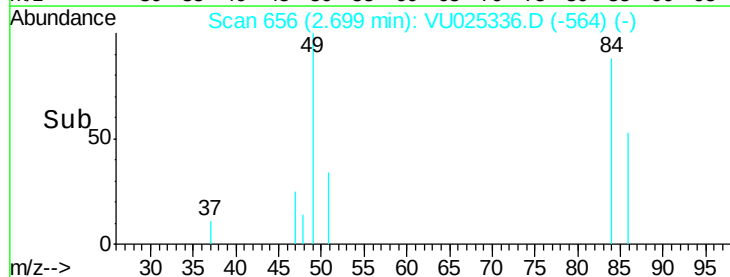
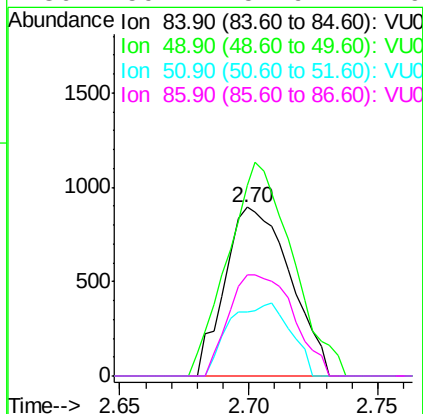
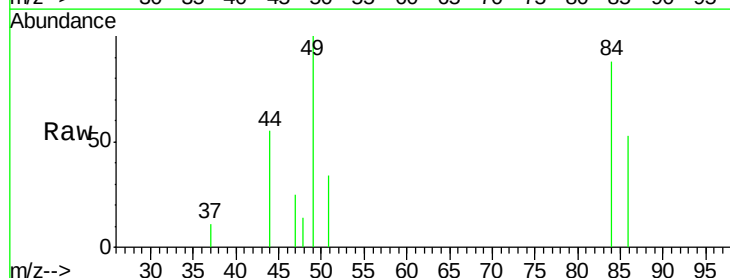
Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT3-2018

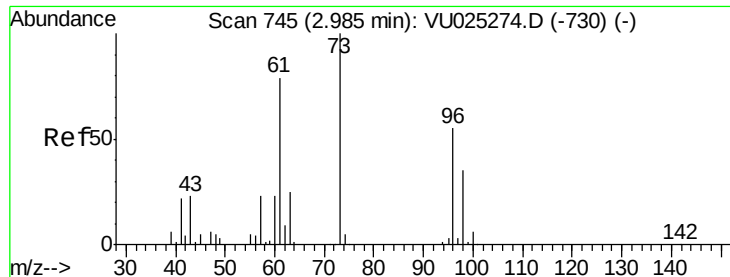
Tot Ion: 73 Resp: 3660
Ion Ratio Lower Upper
73 100
57 20.9 17.4 26.2



#20
Methylene Chloride
Concen: 1.48 ug/l
RT: 2.70 min Scan# 656
Delta R.T. -0.00 min
Lab File: VU025336.D
Acq: 12 Jul 2018 13:30

Tgt Ion: 84 Resp: 1575
Ion Ratio Lower Upper
84 100
49 113.1 101.8 152.6
51 38.1 30.8 46.2
86 59.7 51.9 77.9





#21

trans-1,2-Dichloroethene

Concen: 0.51 ug/l

RT: 2.99 min Scan# 745

Delta R.T. -0.00 min

Lab File: VU025336.D

Acq: 12 Jul 2018 13:30

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

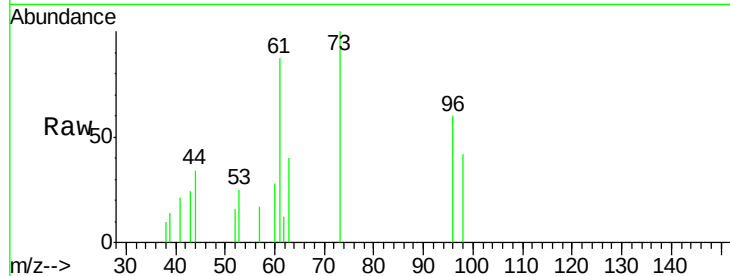
Tot Ion: 96 Resp: 966

Ion Ratio Lower Upper

96 100

61 145.7 114.5 171.7

98 71.3 50.5 75.7

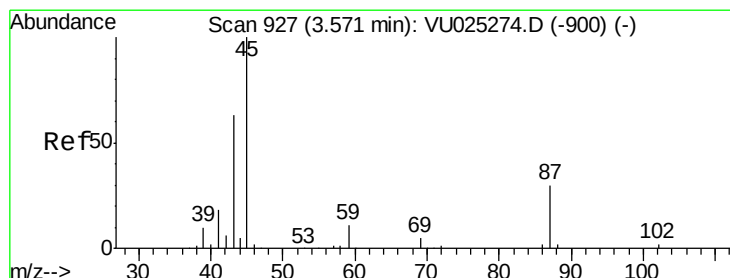
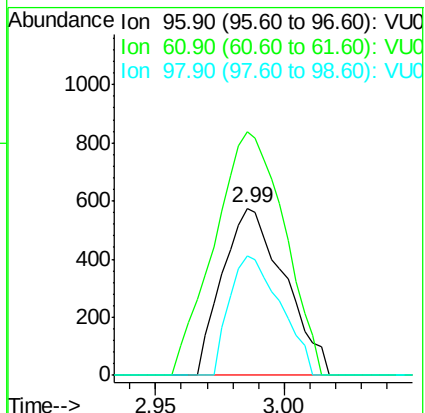
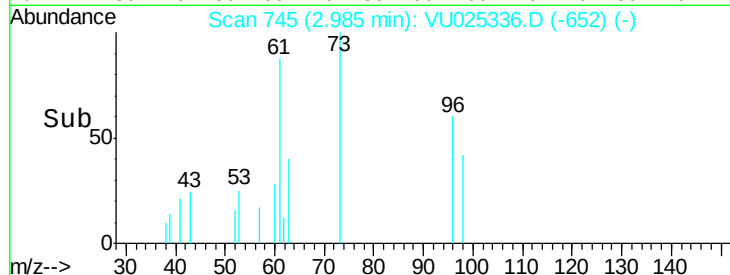


Abundance Ion 95.90 (95.60 to 96.60): VU025274.D (-730) (-)

Ion 60.90 (60.60 to 61.60): VU025274.D (-730) (-)

Ion 97.90 (97.60 to 98.60): VU025274.D (-730) (-)

Time-->



#22

Diisopropyl ether

Concen: 0.63 ug/l

RT: 3.57 min Scan# 928

Delta R.T. 0.00 min

Lab File: VU025336.D

Acq: 12 Jul 2018 13:30

Tgt Ion: 45 Resp: 3845

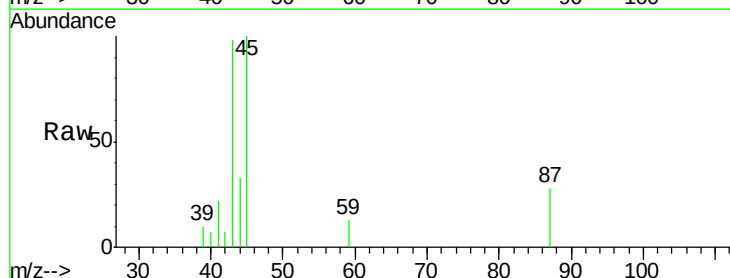
Ion Ratio Lower Upper

45 100

43 89.3 50.9 76.3#

87 28.5 23.8 35.8

59 12.6 9.0 13.4



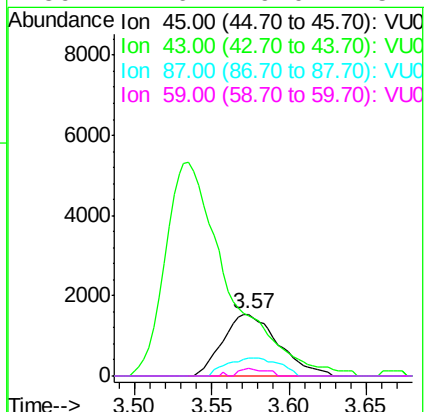
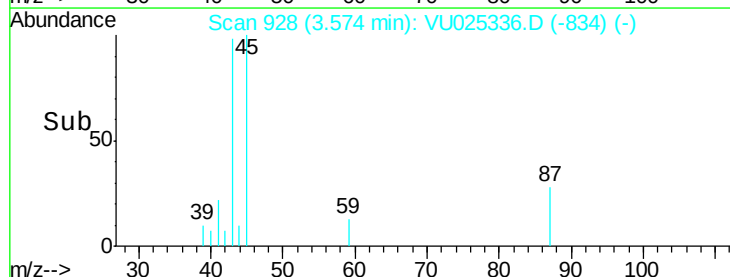
Abundance Ion 45.00 (44.70 to 45.70): VU025274.D (-900) (-)

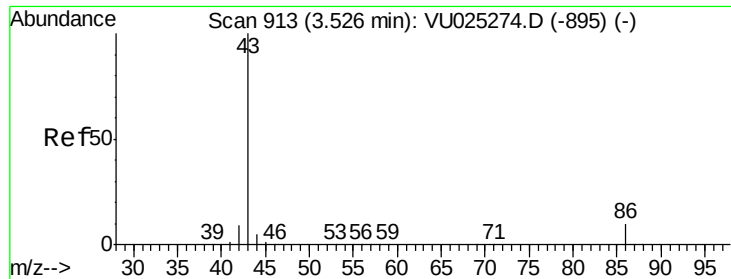
Ion 43.00 (42.70 to 43.70): VU025274.D (-900) (-)

Ion 87.00 (86.70 to 87.70): VU025274.D (-900) (-)

Ion 59.00 (58.70 to 59.70): VU025274.D (-900) (-)

Time-->





#23

Vinyl Acetate

Concen: 2.80 ug/l

RT: 3.54 min Scan# 916

Delta R.T. 0.01 min

Lab File: VU025336.D

Acq: 12 Jul 2018 13:30

Instrument :

MSVOA_U

ClientSampleId :

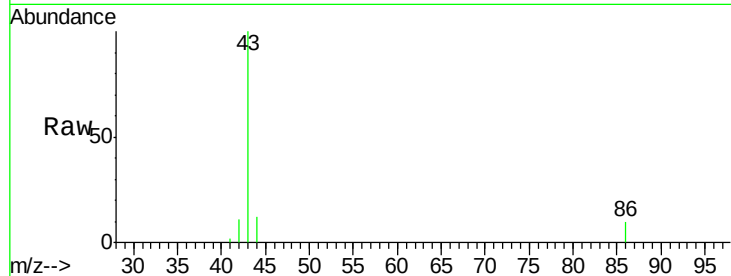
LOD-MDL-WATER-01-QT3-2018

Tot Ion: 43 Resp: 15100

Ion Ratio Lower Upper

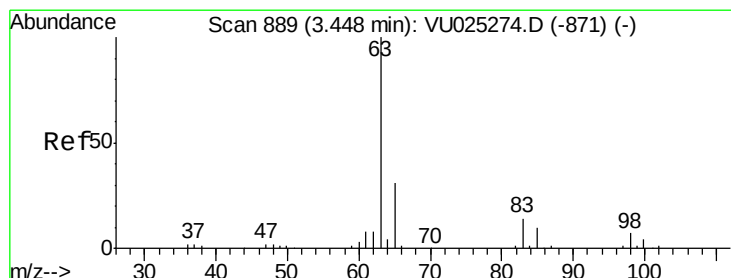
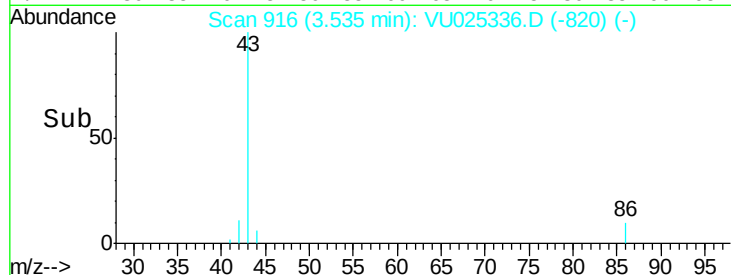
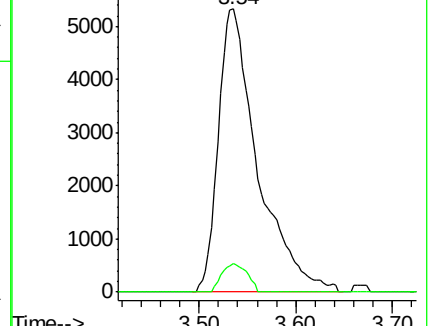
43 100

86 9.9 8.2 12.2



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 86.00 (85.70 to 86.70): VU0



#24

1,1-Dichloroethane

Concen: 0.59 ug/l

RT: 3.45 min Scan# 889

Delta R.T. -0.00 min

Lab File: VU025336.D

Acq: 12 Jul 2018 13:30

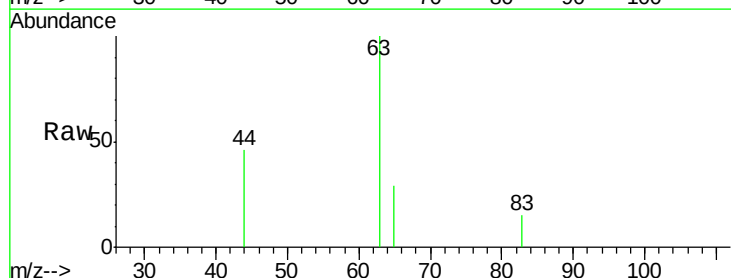
Tgt Ion: 63 Resp: 2055

Ion Ratio Lower Upper

63 100

98 0.0 3.4 10.1#

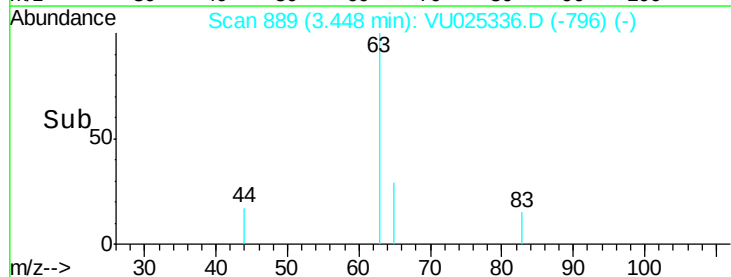
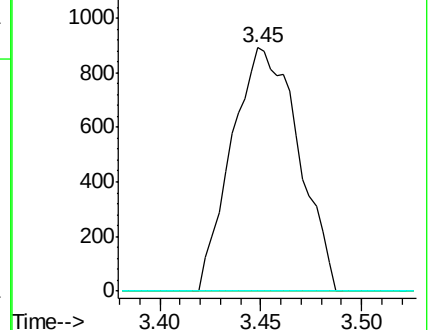
100 0.0 2.0 6.0#

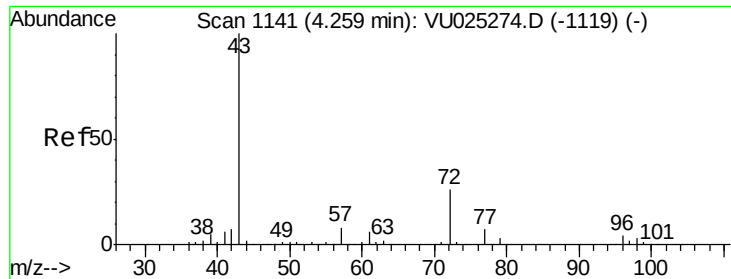


Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 97.90 (97.60 to 98.60): VU0

Ion 99.90 (99.60 to 100.60): VU0

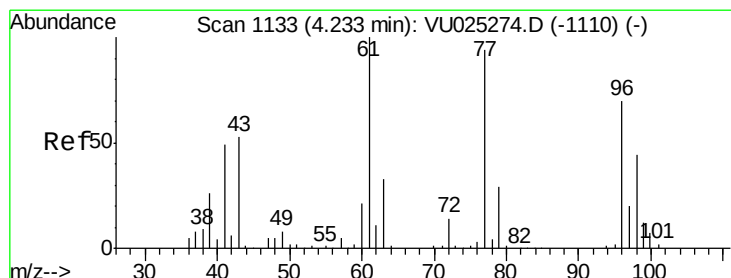
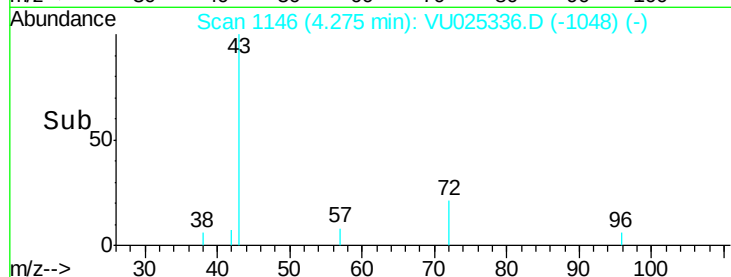
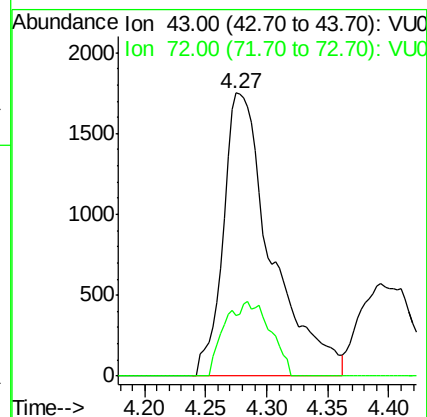
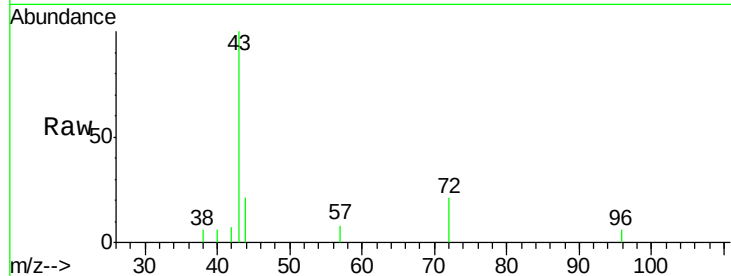




#25
 2-Butanone
 Concen: 2.75 ug/l
 RT: 4.27 min Scan# 1146
 Delta R.T. 0.02 min
 Lab File: VU025336.D
 Acq: 12 Jul 2018 13:30

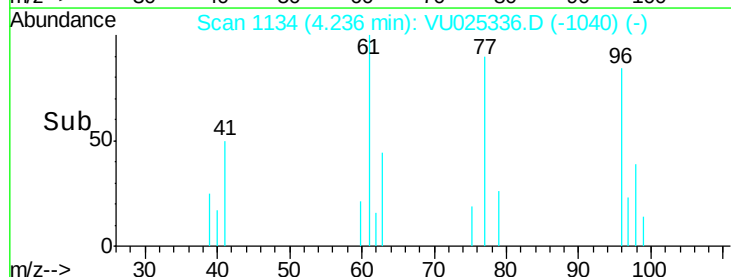
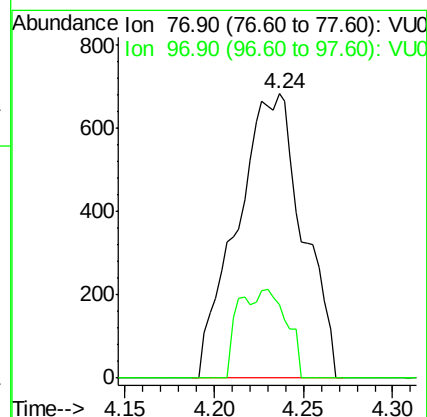
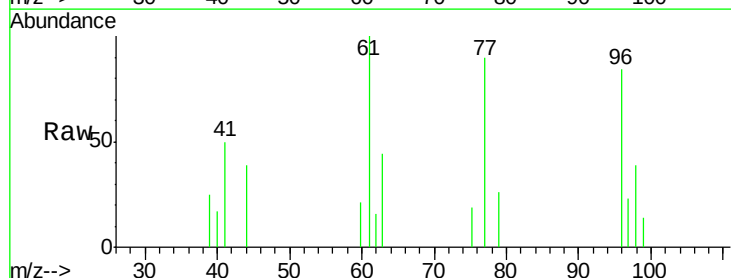
Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2018

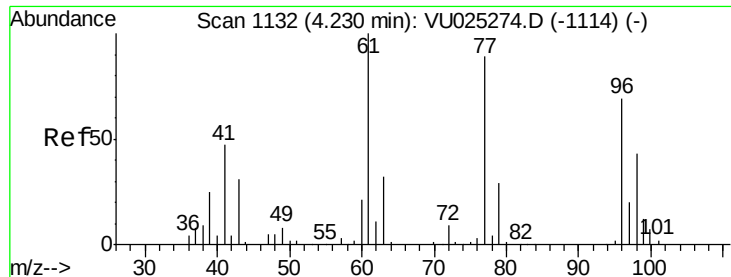
Tot Ion: 43 Resp: 4841
 Ion Ratio Lower Upper
 43 100
 72 21.4 21.0 31.4



#26
 2,2-Dichloropropane
 Concen: 0.52 ug/l
 RT: 4.24 min Scan# 1134
 Delta R.T. 0.00 min
 Lab File: VU025336.D
 Acq: 12 Jul 2018 13:30

Tgt Ion: 77 Resp: 1748
 Ion Ratio Lower Upper
 77 100
 97 7.7 11.2 33.5#





#27

cis-1,2-Dichloroethene

Concen: 0.62 ug/l

RT: 4.23 min Scan# 1133

Delta R.T. 0.00 min

Lab File: VU025336.D

Acq: 12 Jul 2018 13:30

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

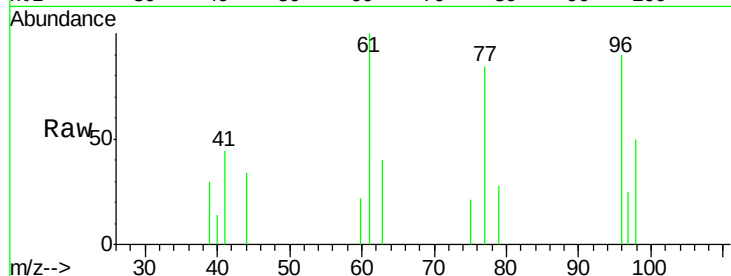
Tot Ion: 96 Resp: 1360

Ion Ratio Lower Upper

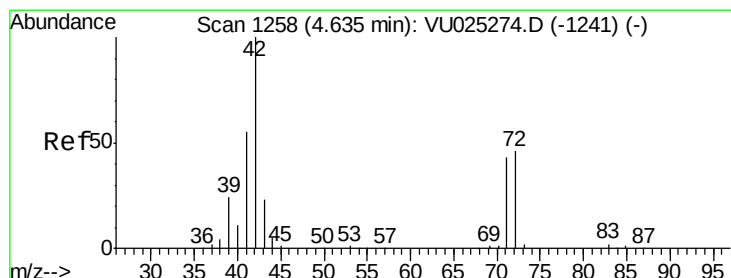
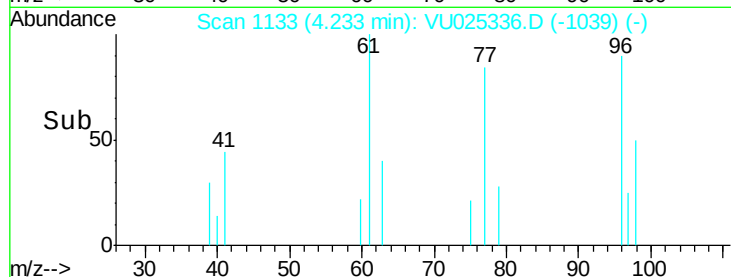
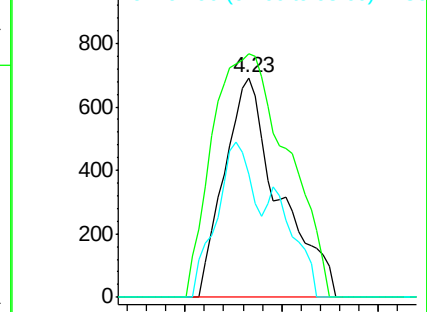
96 100

61 152.6 0.0 299.8

98 48.9 0.0 128.6



Abundance Ion 95.90 (95.60 to 96.60): VU0
Ion 60.90 (60.60 to 61.60): VU0
Ion 97.90 (97.60 to 98.60): VU0



#29

Tetrahydrofuran

Concen: 3.21 ug/l

RT: 4.65 min Scan# 1264

Delta R.T. 0.02 min

Lab File: VU025336.D

Acq: 12 Jul 2018 13:30

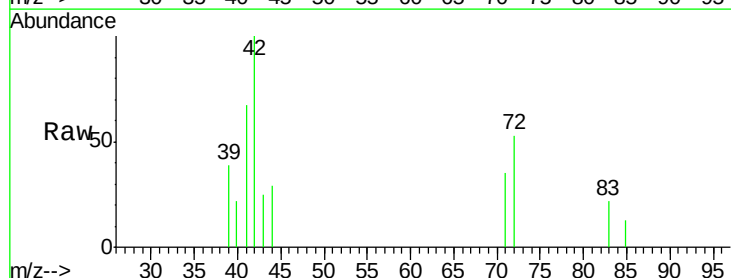
Tgt Ion: 42 Resp: 3391

Ion Ratio Lower Upper

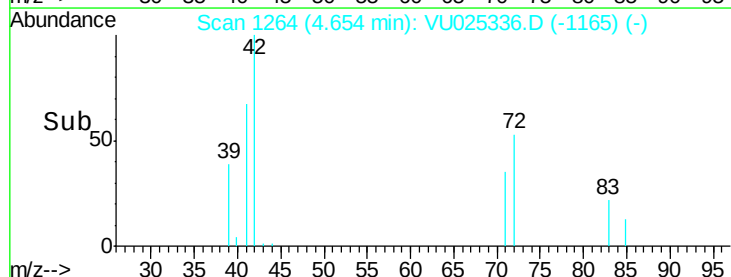
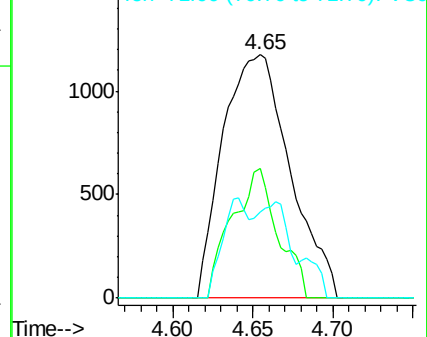
42 100

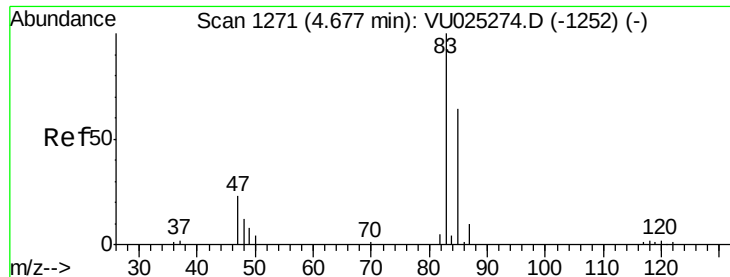
72 36.2 36.7 55.1#

71 15.8 33.9 50.9#



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

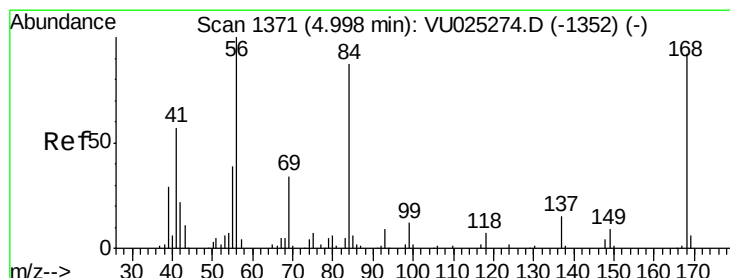
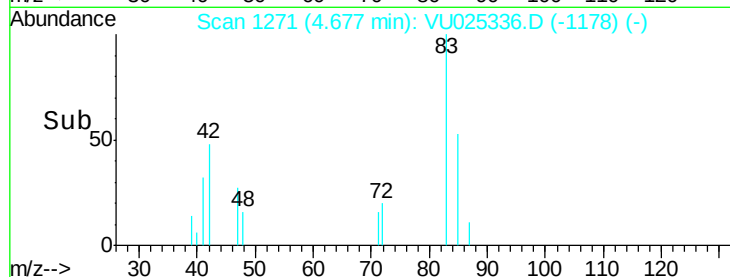
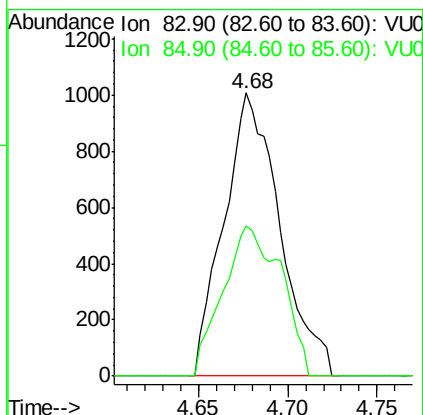
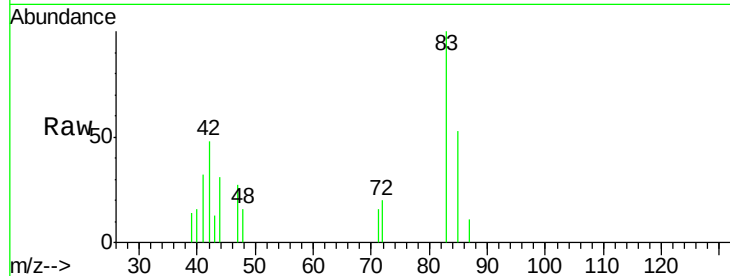




#30
Chloroform
Concen: 0.60 ug/l
RT: 4.68 min Scan# 1271
Delta R.T. -0.00 min
Lab File: VU025336.D
Acq: 12 Jul 2018 13:30

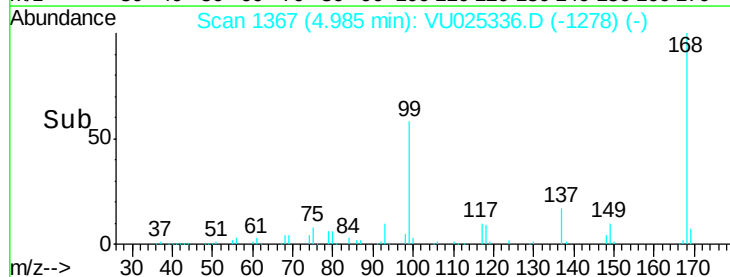
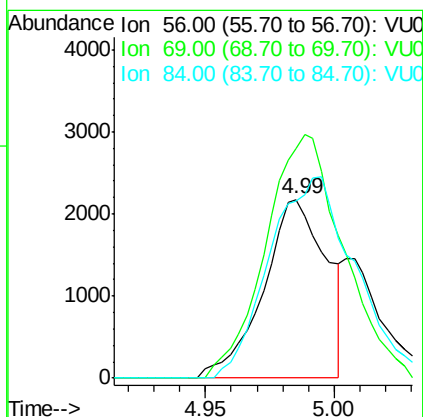
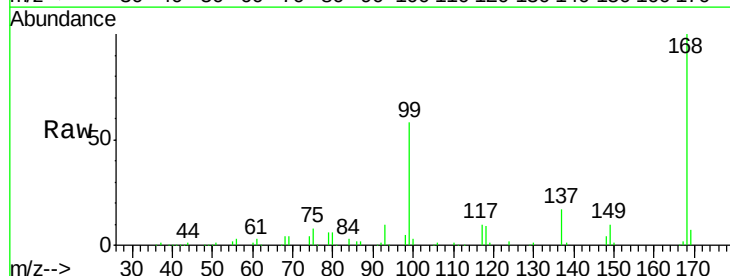
Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT3-2018

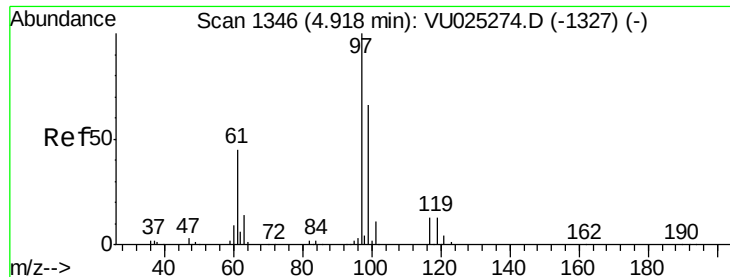
Tot Ion: 83 Resp: 2196
Ion Ratio Lower Upper
83 100
85 52.9 51.5 77.3



#31
Cyclohexane
Concen: 1.88 ug/l
RT: 4.99 min Scan# 1367
Delta R.T. -0.01 min
Lab File: VU025336.D
Acq: 12 Jul 2018 13:30

Tgt Ion: 56 Resp: 3698
Ion Ratio Lower Upper
56 100
69 128.5 26.8 40.2#
84 98.9 69.7 104.5





#32

1,1,1-Trichloroethane

Concen: 0.27 ug/l

RT: 4.91 min Scan# 1345

Delta R.T. -0.00 min

Lab File: VU025336.D

Acq: 12 Jul 2018 13:30

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

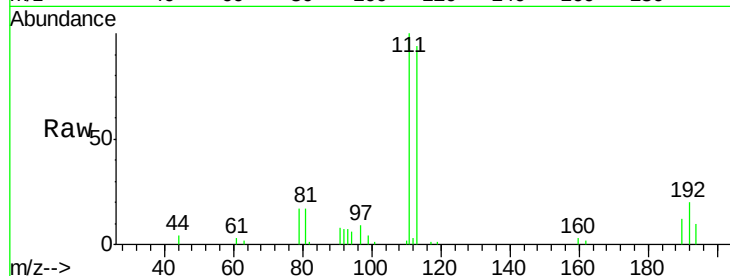
Tot Ion: 97 Resp: 904

Ion Ratio Lower Upper

97 100

99 0.0 50.8 76.2#

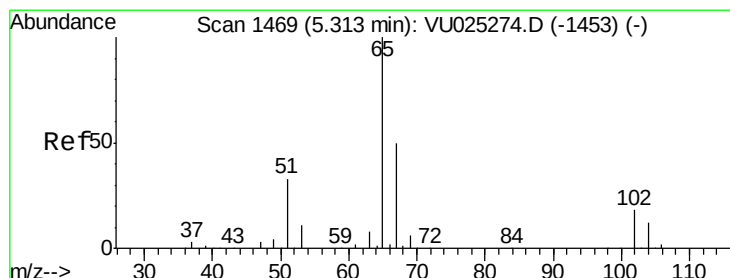
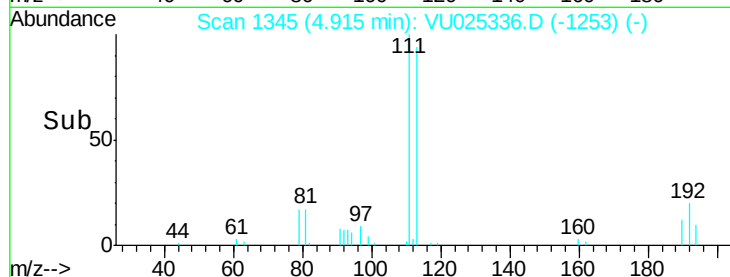
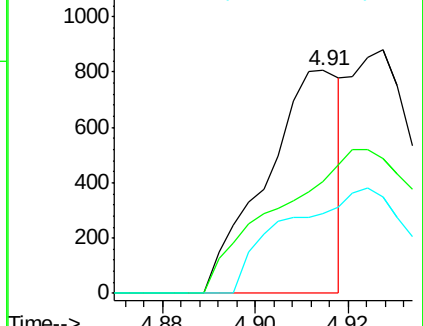
61 87.3 35.2 52.8#



Abundance Ion 96.90 (96.60 to 97.60): VU025274.D (-1327) (-)

Ion 98.90 (98.60 to 99.60): VU025274.D (-1327) (-)

Ion 60.90 (60.60 to 61.60): VU025274.D (-1327) (-)



#33

1,2-Dichloroethane-d4

Concen: 45.58 ug/l

RT: 5.31 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VU025336.D

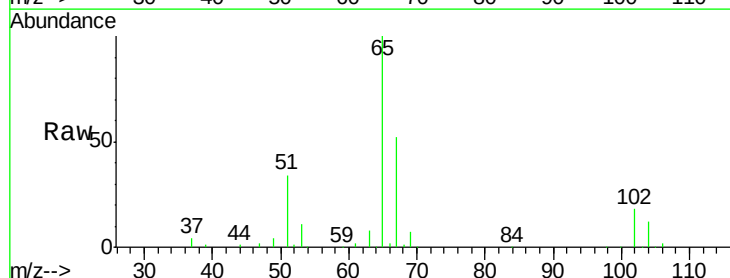
Acq: 12 Jul 2018 13:30

Tgt Ion: 65 Resp: 115884

Ion Ratio Lower Upper

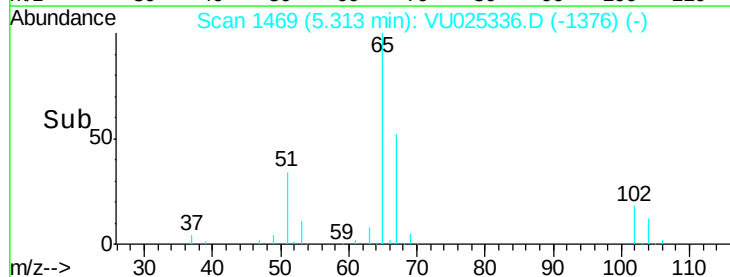
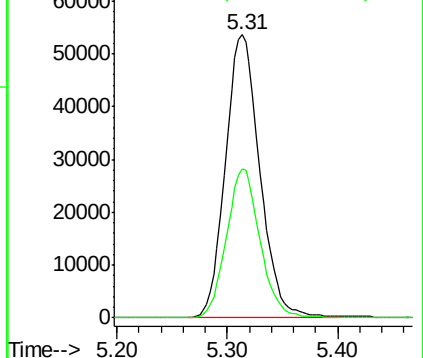
65 100

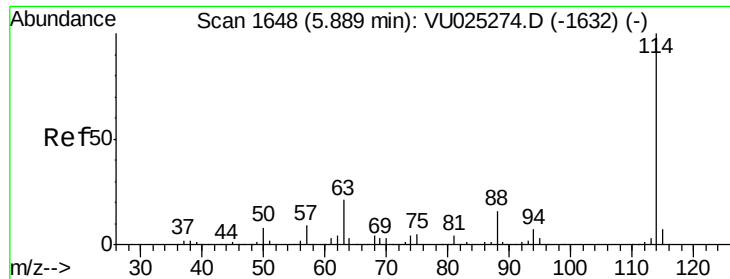
67 51.3 0.0 103.6



Abundance Ion 64.90 (64.60 to 65.60): VU025274.D (-1453) (-)

Ion 66.90 (66.60 to 67.60): VU025274.D (-1453) (-)

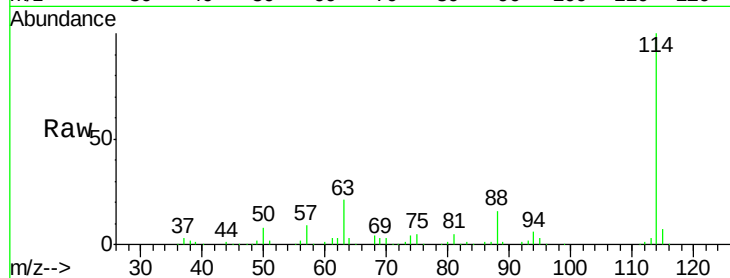




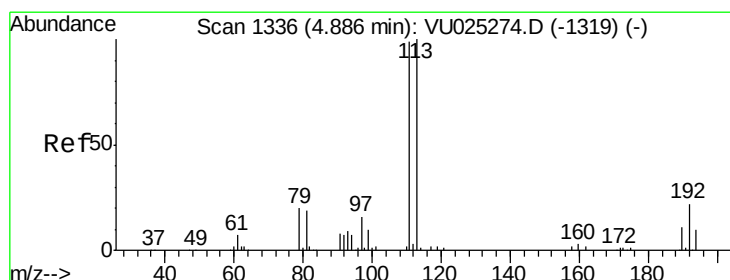
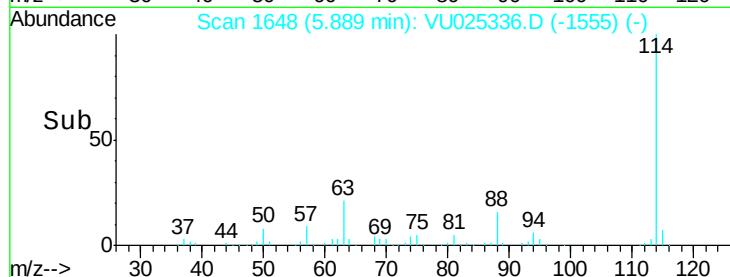
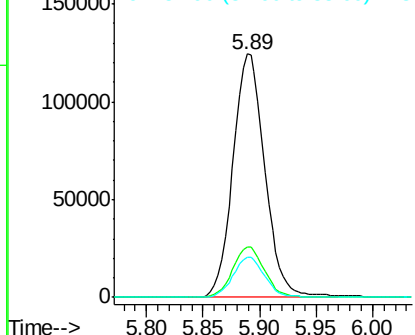
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.89 min Scan# 1648
 Delta R.T. -0.00 min
 Lab File: VU025336.D
 Acq: 12 Jul 2018 13:30

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2018

Tot Ion:114 Resp: 243970
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 41.6
 88 16.4 0.0 32.4

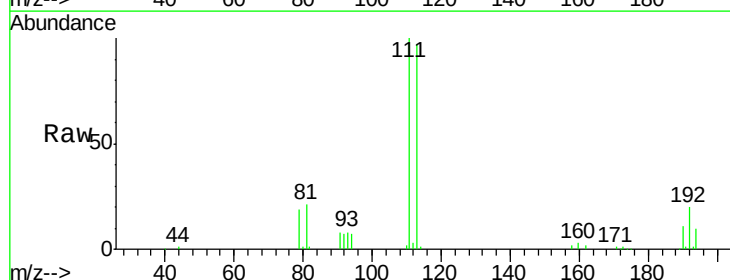


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

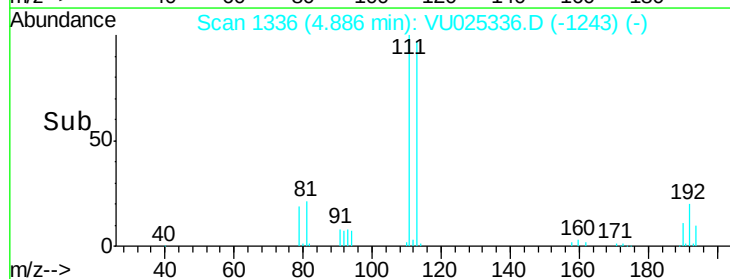
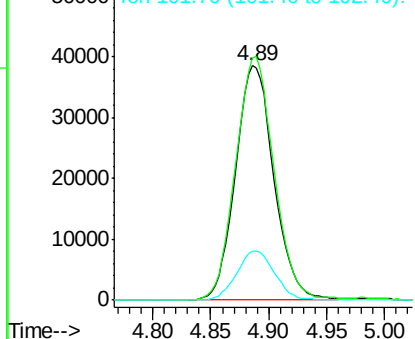


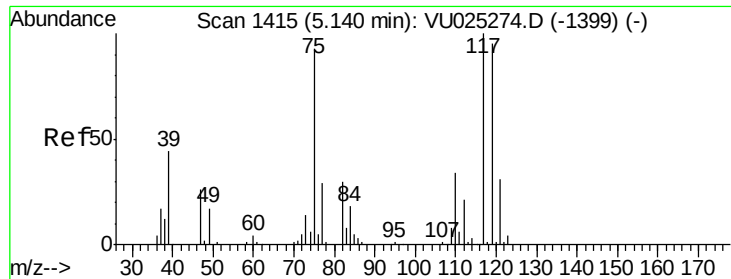
#35
 Dibromofluoromethane
 Concen: 43.04 ug/l
 RT: 4.89 min Scan# 1336
 Delta R.T. -0.00 min
 Lab File: VU025336.D
 Acq: 12 Jul 2018 13:30

Tgt Ion:113 Resp: 88576
 Ion Ratio Lower Upper
 113 100
 111 103.7 81.7 122.5
 192 20.8 17.1 25.7



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

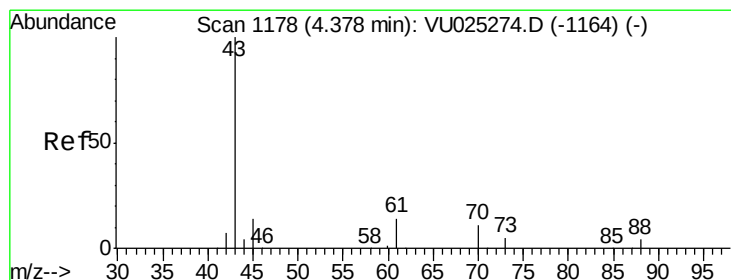
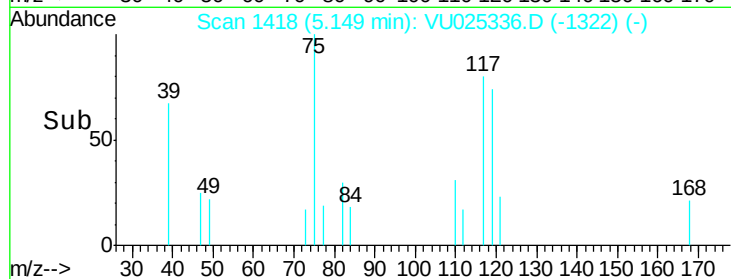
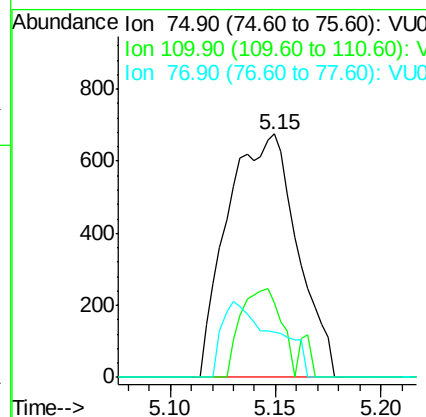
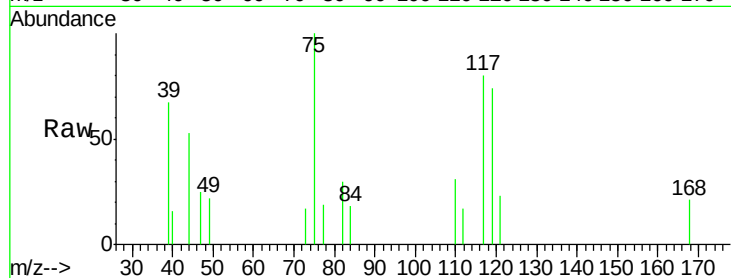




#36
 1,1-Dichloropropene
 Concen: 0.57 ug/l
 RT: 5.15 min Scan# 1418
 Delta R.T. 0.01 min
 Lab File: VU025336.D
 Acq: 12 Jul 2018 13:30

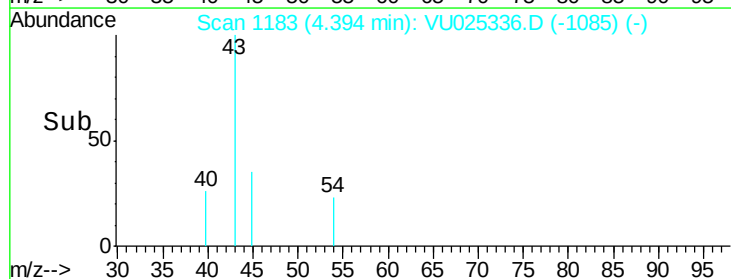
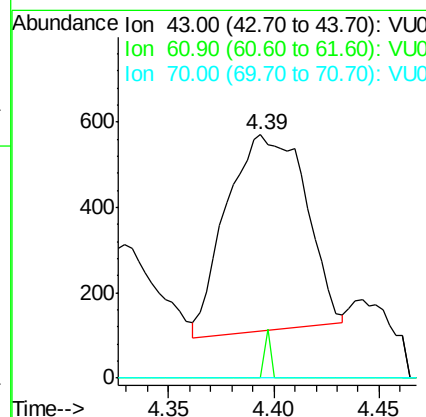
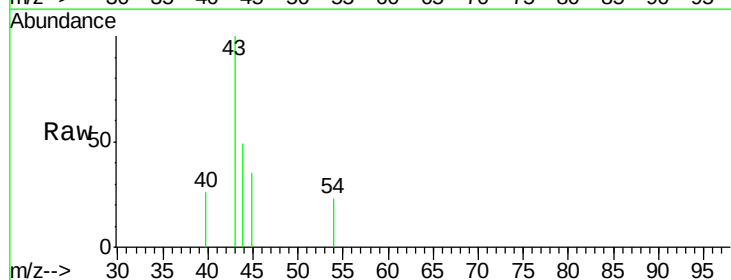
Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2018

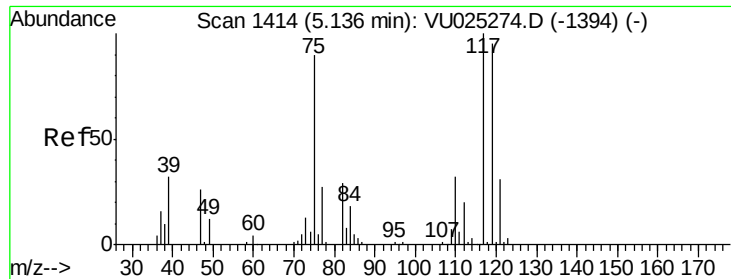
Tot Ion: 75 Resp: 1552
 Ion Ratio Lower Upper
 75 100
 110 21.1 17.6 52.9
 77 23.4 24.4 36.6#



#37
 Ethyl Acetate
 Concen: 0.40 ug/l
 RT: 4.39 min Scan# 1183
 Delta R.T. 0.02 min
 Lab File: VU025336.D
 Acq: 12 Jul 2018 13:30

Tgt Ion: 43 Resp: 1195
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.7 16.1#
 70 0.0 8.4 12.6#





#38

Carbon Tetrachloride

Concen: 0.48 ug/l

RT: 5.14 min Scan# 1415

Delta R.T. 0.00 min

Lab File: VU025336.D

Acq: 12 Jul 2018 13:30

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

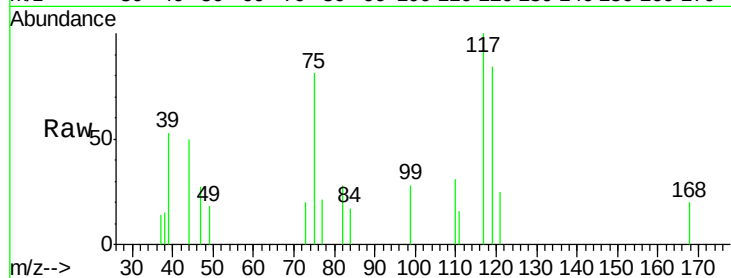
Tot Ion:117 Resp: 1411

Ion Ratio Lower Upper

117 100

119 83.6 75.7 113.5

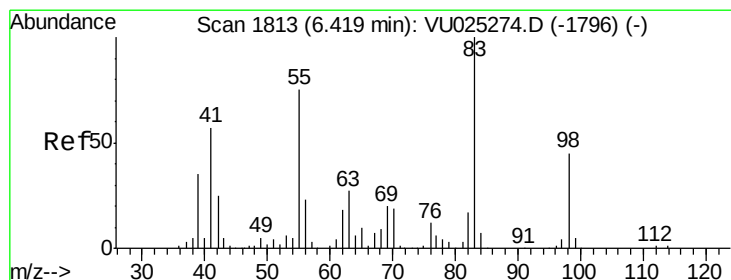
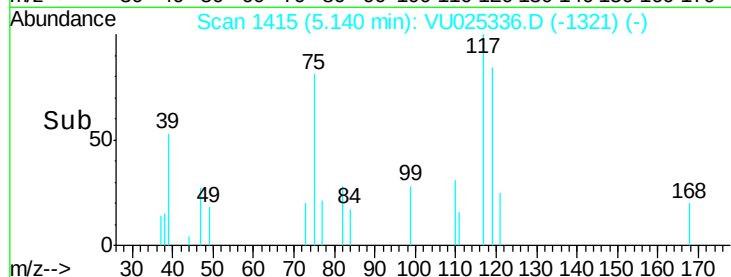
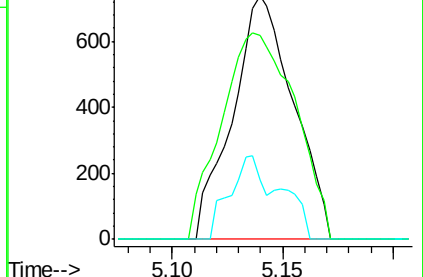
121 24.5 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 0.52 ug/l

RT: 6.42 min Scan# 1814

Delta R.T. 0.00 min

Lab File: VU025336.D

Acq: 12 Jul 2018 13:30

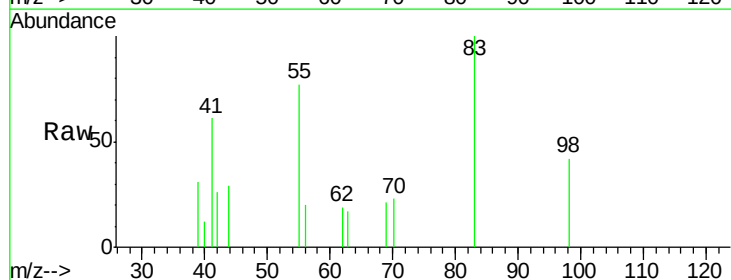
Tgt Ion: 83 Resp: 1747

Ion Ratio Lower Upper

83 100

55 77.5 60.0 90.0

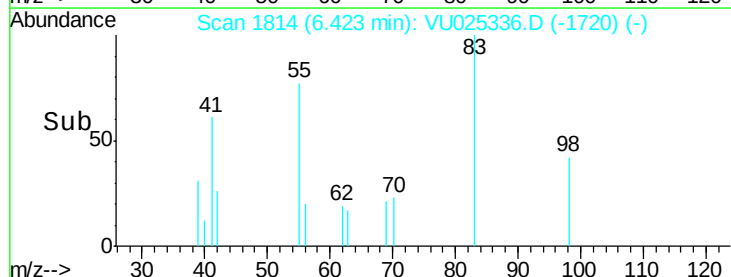
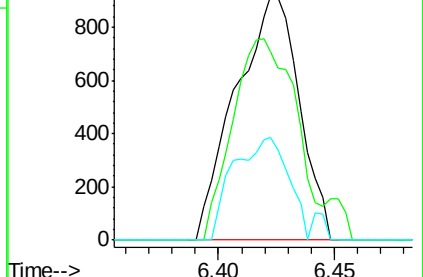
98 42.2 36.1 54.1

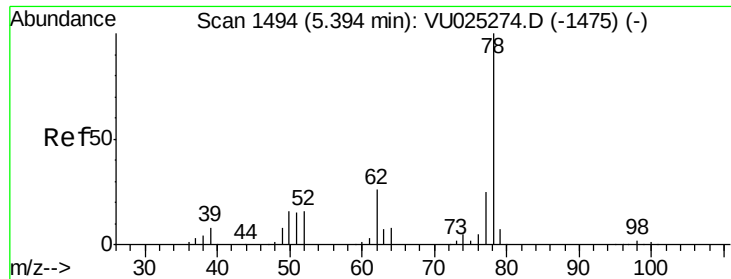


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#40

Benzene

Concen: 0.53 ug/l

RT: 5.40 min Scan# 1496

Delta R.T. 0.01 min

Lab File: VU025336.D

Acq: 12 Jul 2018 13:30

Instrument :

MSVOA_U

ClientSampleId :

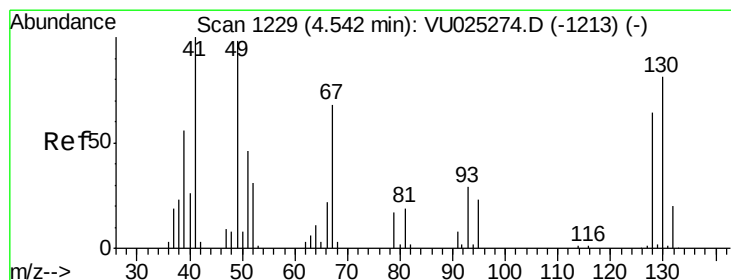
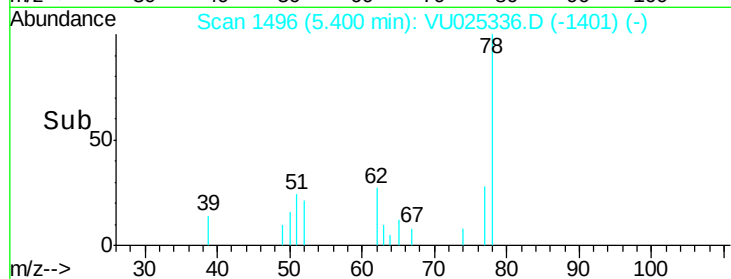
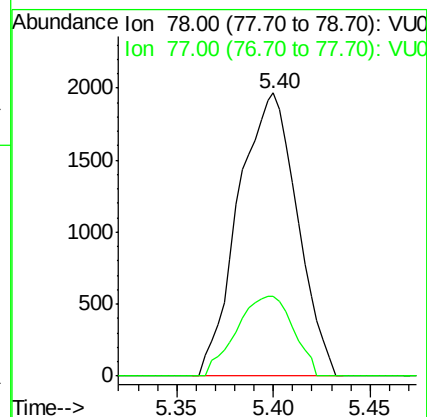
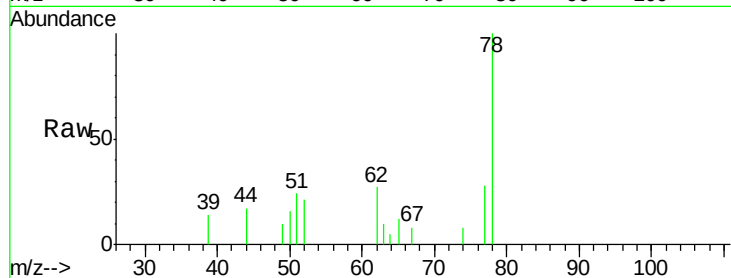
LOD-MDL-WATER-01-QT3-2018

Tot Ion: 78 Resp: 4147

Ion Ratio Lower Upper

78 100

77 28.1 19.8 29.6



#41

Methacrylonitrile

Concen: 0.24 ug/l

RT: 4.55 min Scan# 1231

Delta R.T. 0.01 min

Lab File: VU025336.D

Acq: 12 Jul 2018 13:30

Tgt Ion: 41 Resp: 403

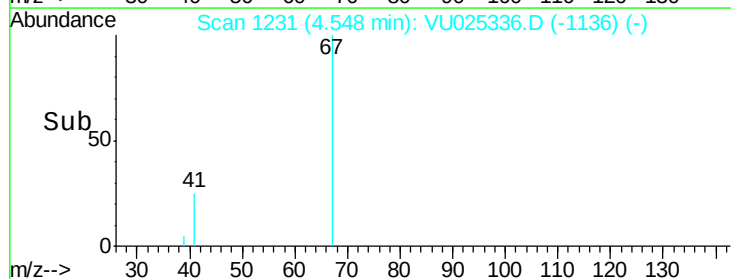
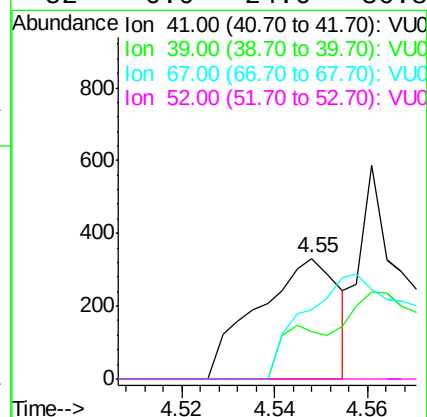
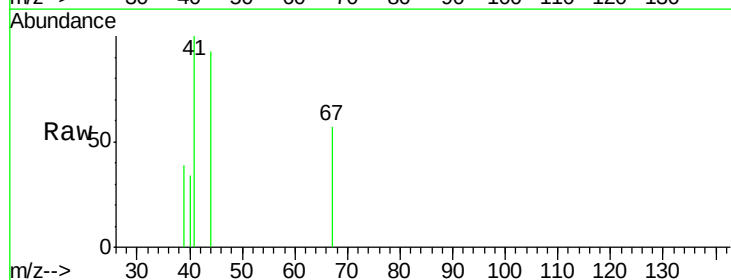
Ion Ratio Lower Upper

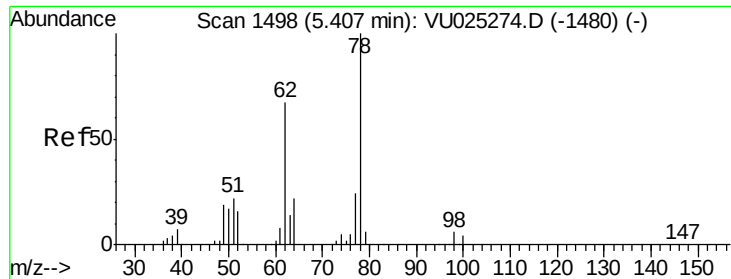
41 100

39 24.8 44.4 66.6#

67 0.0 56.0 84.0#

52 0.0 24.6 36.8#

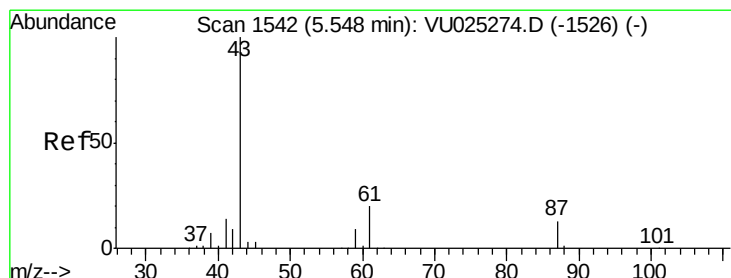
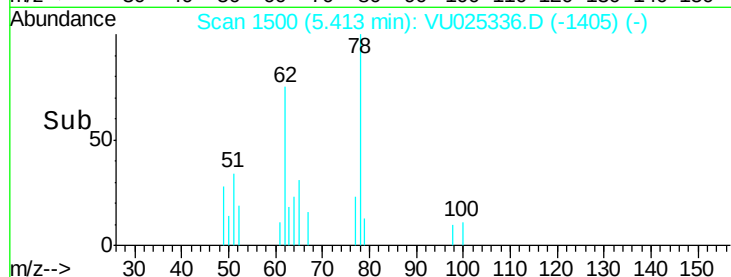
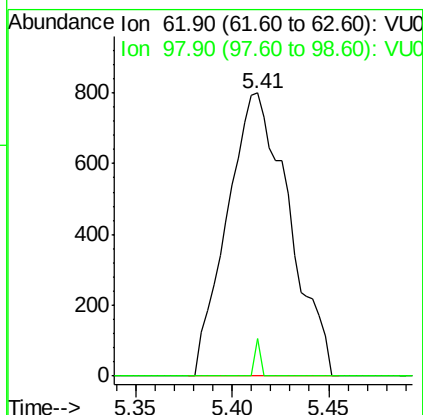
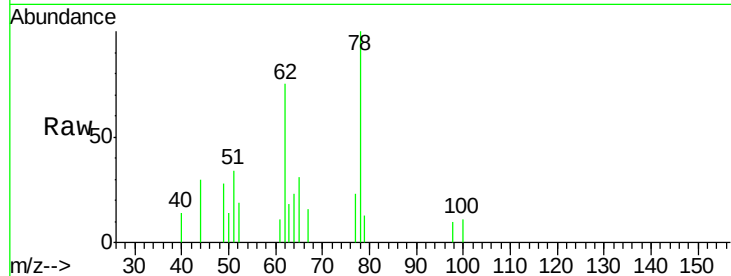




#42
 1,2-Dichloroethane
 Concen: 0.57 ug/l
 RT: 5.41 min Scan# 1500
 Delta R.T. 0.01 min
 Lab File: VU025336.D
 Acq: 12 Jul 2018 13:30

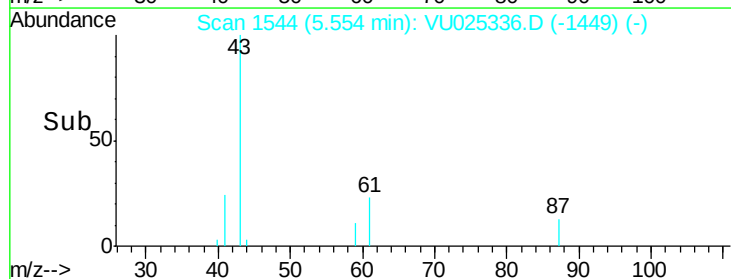
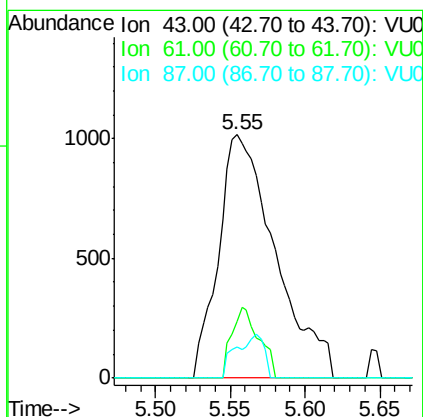
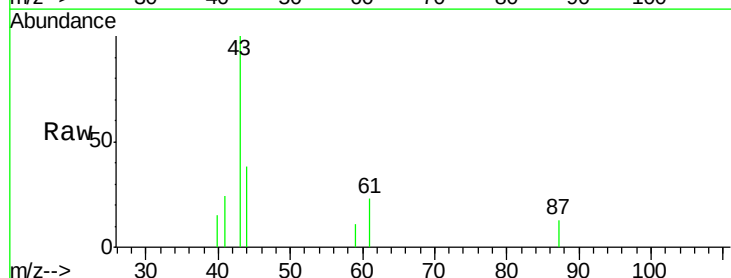
Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2018

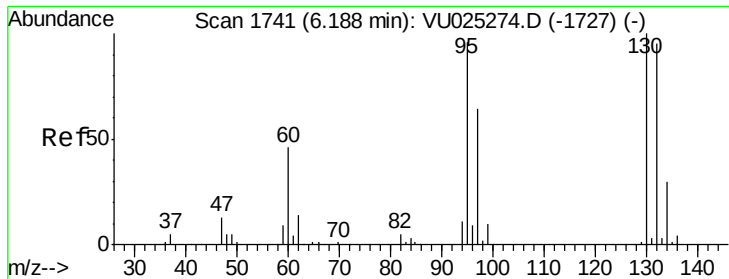
Tot Ion: 62 Resp: 1778
 Ion Ratio Lower Upper
 62 100
 98 1.2 0.0 16.4



#43
 Isopropyl Acetate
 Concen: 0.55 ug/l
 RT: 5.55 min Scan# 1544
 Delta R.T. 0.01 min
 Lab File: VU025336.D
 Acq: 12 Jul 2018 13:30

Tgt Ion: 43 Resp: 2687
 Ion Ratio Lower Upper
 43 100
 61 13.9 15.5 23.3#
 87 8.8 10.6 16.0#





#44

Trichloroethene

Concen: 0.52 ug/l

RT: 6.19 min Scan# 1742

Delta R.T. 0.00 min

Lab File: VU025336.D

Acq: 12 Jul 2018 13:30

Instrument :

MSVOA_U

ClientSampleId :

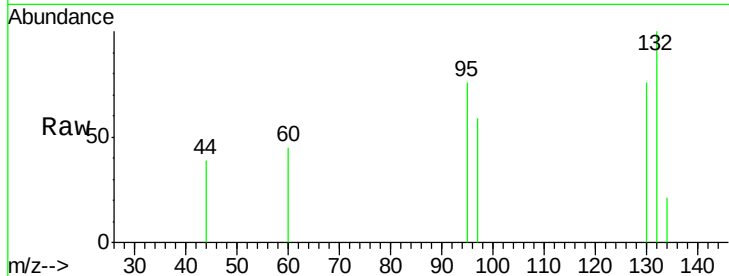
LOD-MDL-WATER-01-QT3-2018

Tot Ion:130 Resp: 1168

Ion Ratio Lower Upper

130 100

95 100.8 0.0 192.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VU0

6.19

800

600

400

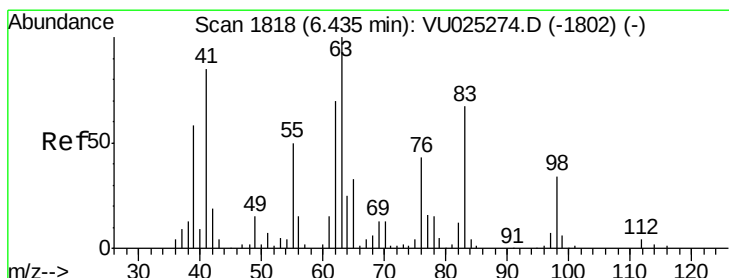
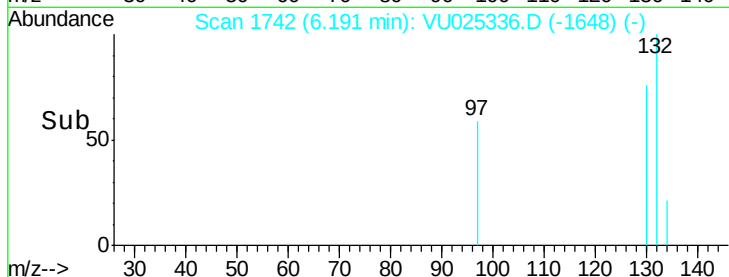
200

0

6.15

6.20

Time-->



#45

1,2-Dichloropropane

Concen: 0.51 ug/l

RT: 6.44 min Scan# 1820

Delta R.T. 0.01 min

Lab File: VU025336.D

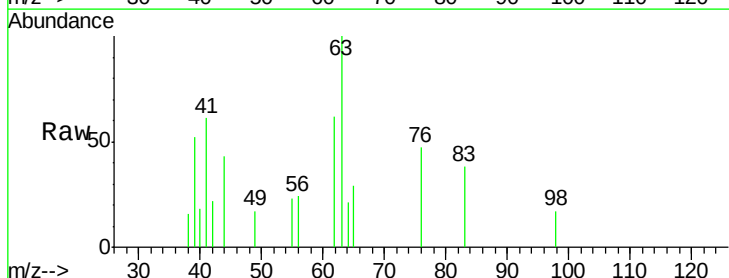
Acq: 12 Jul 2018 13:30

Tgt Ion: 63 Resp: 1040

Ion Ratio Lower Upper

63 100

65 29.0 26.1 39.1



Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 64.90 (64.60 to 65.60): VU0

6.44

600

400

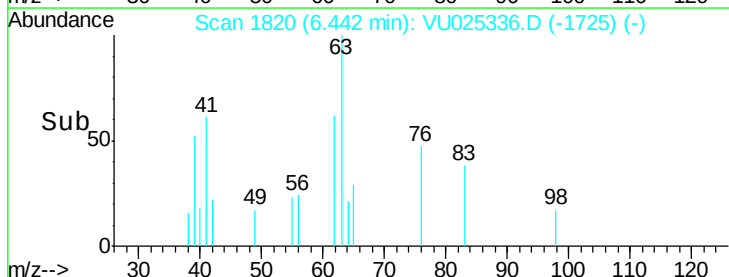
200

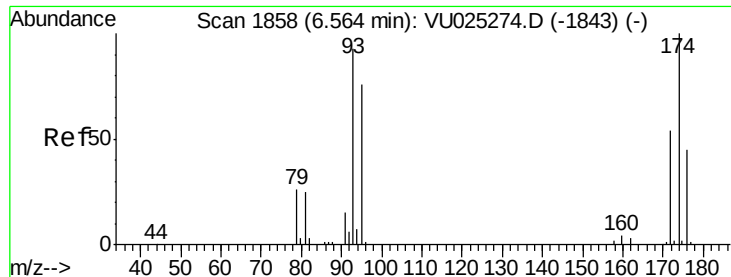
0

6.40

6.45

Time-->

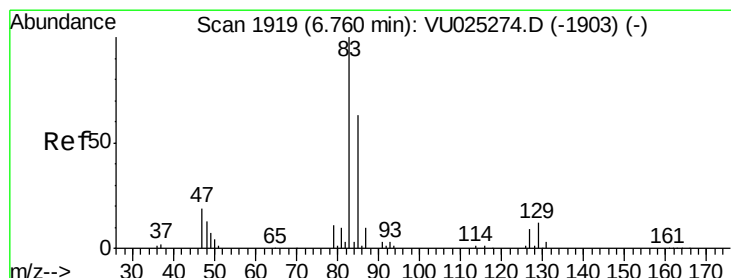
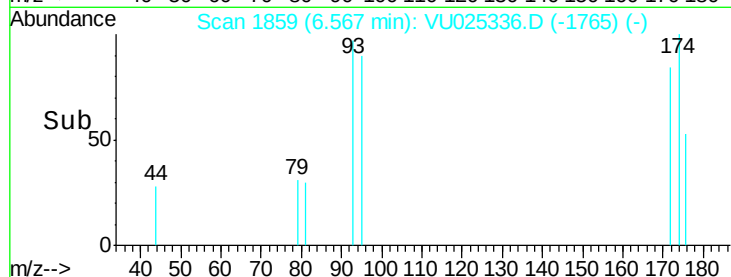
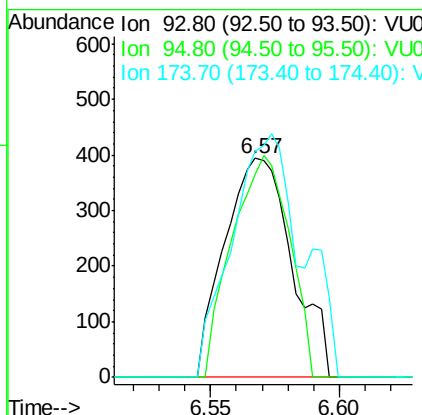
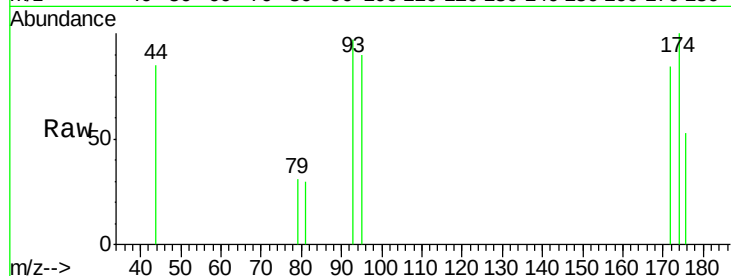




#46
Dibromomethane
Concen: 0.48 ug/l
RT: 6.57 min Scan# 1859
Delta R.T. 0.00 min
Lab File: VU025336.D
Acq: 12 Jul 2018 13:30

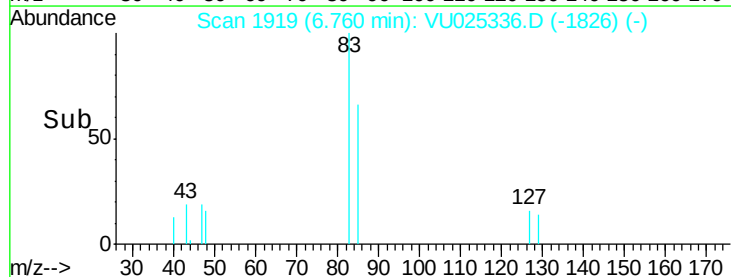
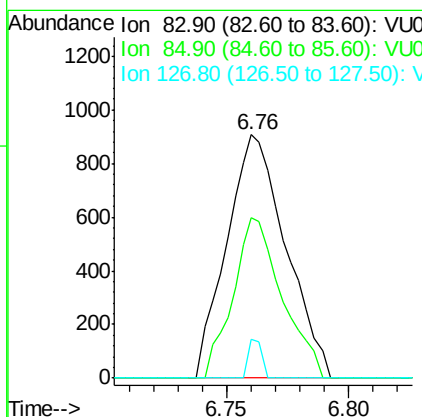
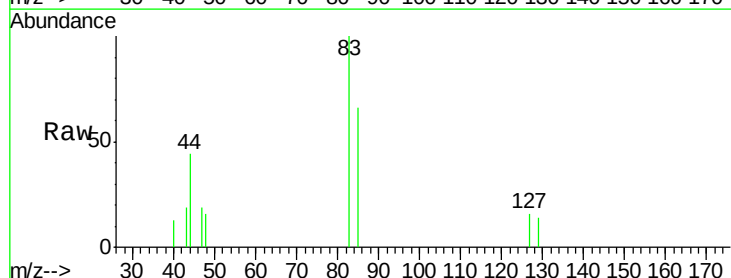
Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT3-2018

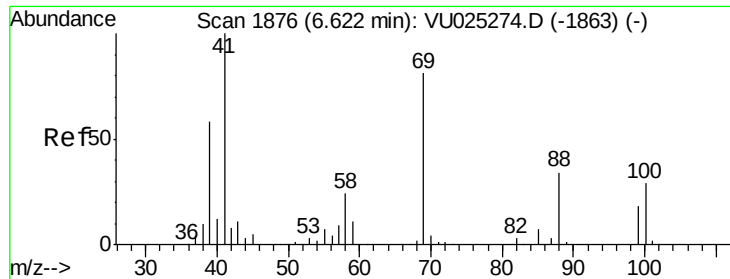
Tot Ion: 93 Resp: 720
Ion Ratio Lower Upper
93 100
95 86.4 66.6 100.0
174 99.2 85.8 128.8



#47
Bromodichloromethane
Concen: 0.55 ug/l
RT: 6.76 min Scan# 1919
Delta R.T. -0.00 min
Lab File: VU025336.D
Acq: 12 Jul 2018 13:30

Tgt Ion: 83 Resp: 1523
Ion Ratio Lower Upper
83 100
85 66.1 50.2 75.4
127 16.2 7.2 10.8#

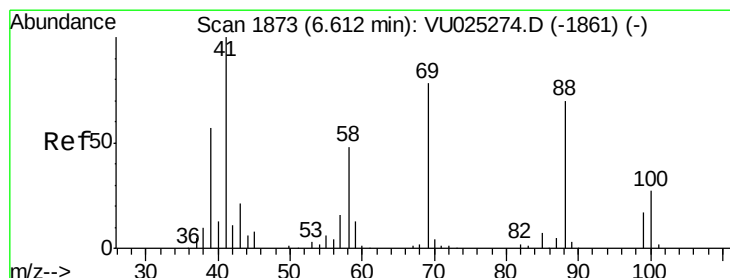
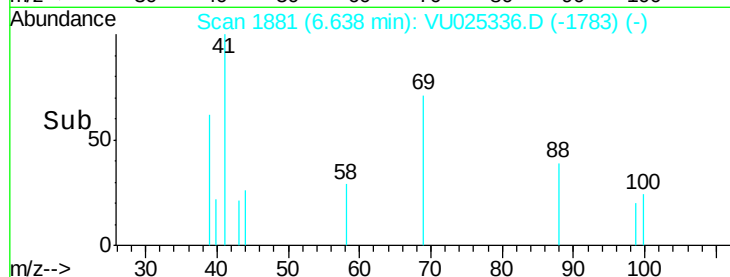
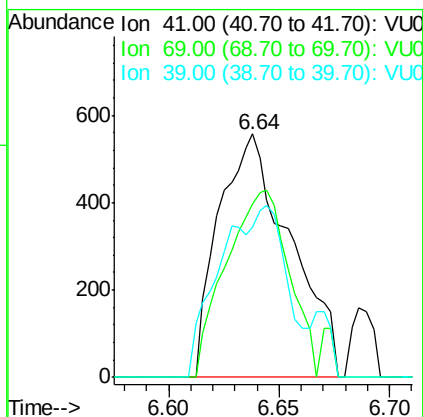
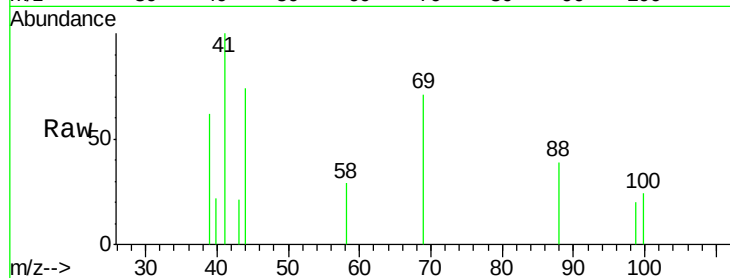




#48
Methvl methacrylate
Concen: 0.52 ug/l
RT: 6.64 min Scan# 1881
Delta R.T. 0.02 min
Lab File: VU025336.D
Acq: 12 Jul 2018 13:30

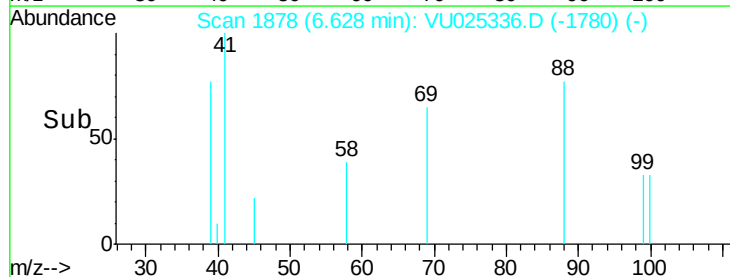
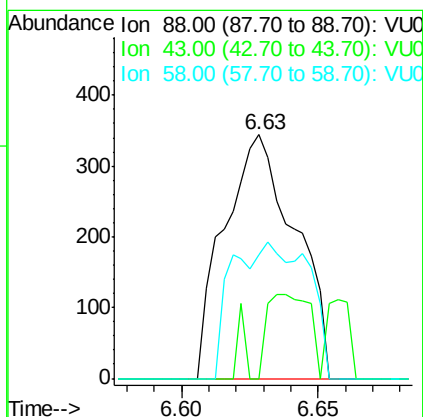
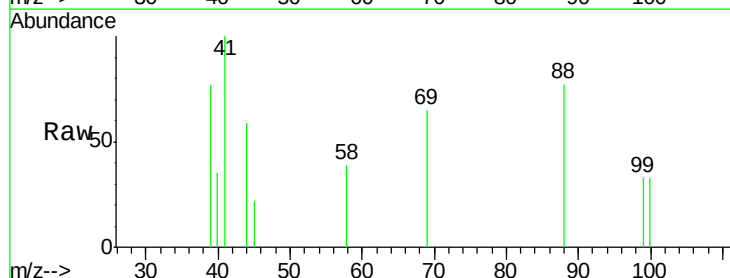
Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT3-2018

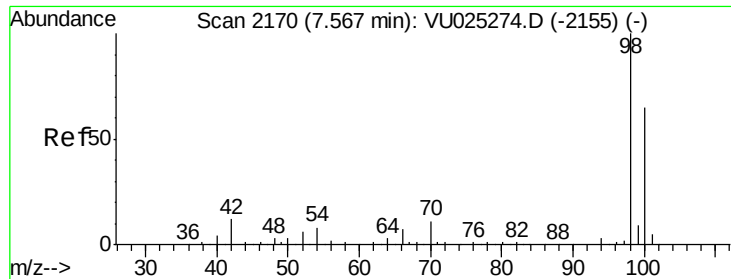
Tot Ion: 41 Resp: 1251
Ion Ratio Lower Upper
41 100
69 67.5 65.0 97.4
39 66.0 46.4 69.6



#49
1,4-Dioxane
Concen: 10.65 ug/l
RT: 6.63 min Scan# 1878
Delta R.T. 0.02 min
Lab File: VU025336.D
Acq: 12 Jul 2018 13:30

Tgt Ion: 88 Resp: 619
Ion Ratio Lower Upper
88 100
43 20.8 27.3 40.9#
58 19.9 57.6 86.4#

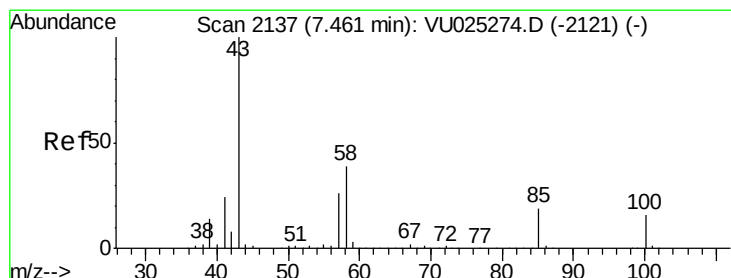
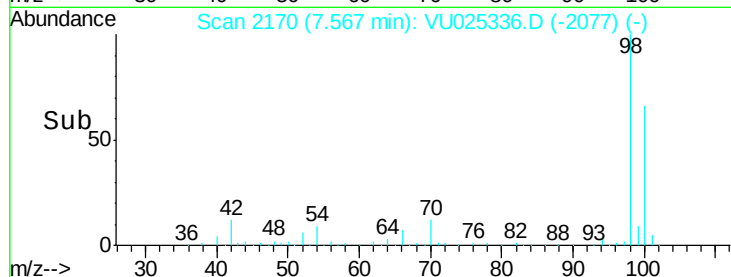
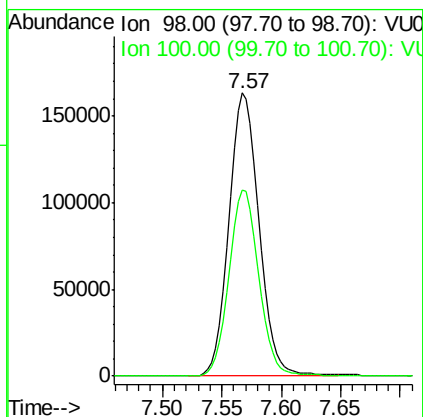
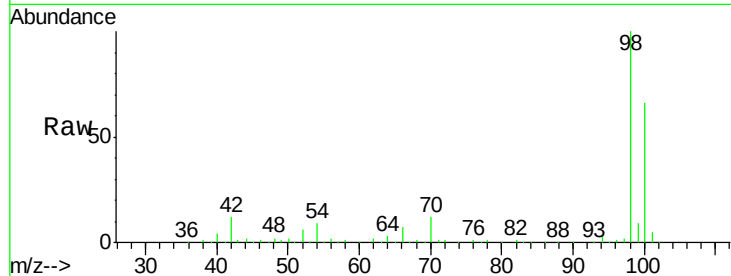




#50
Toluene-d8
Concen: 40.71 ug/l
RT: 7.57 min Scan# 2170
Delta R.T. -0.00 min
Lab File: VU025336.D
Acq: 12 Jul 2018 13:30

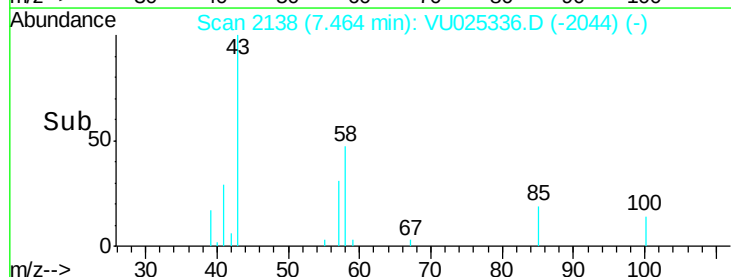
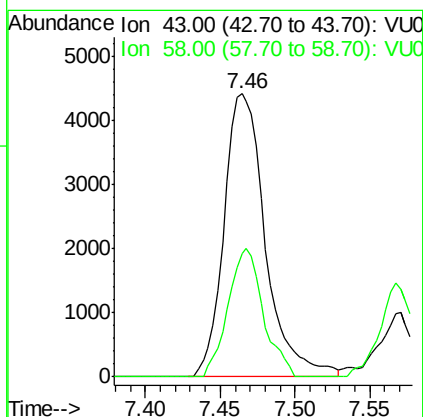
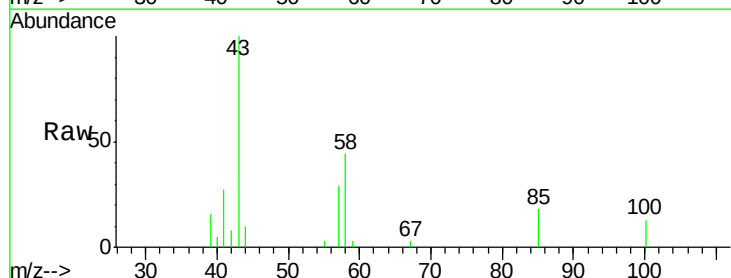
Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT3-2018

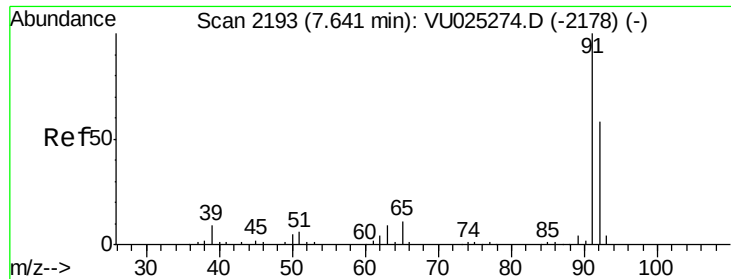
Tot Ion: 98 Resp: 286900
Ion Ratio Lower Upper
98 100
100 65.4 51.1 76.7



#51
4-Methyl-2-Pentanone
Concen: 2.70 ug/l
RT: 7.46 min Scan# 2138
Delta R.T. 0.00 min
Lab File: VU025336.D
Acq: 12 Jul 2018 13:30

Tgt Ion: 43 Resp: 8502
Ion Ratio Lower Upper
43 100
58 38.6 31.0 46.4





#52

Toluene

Concen: 0.53 ug/l

RT: 7.64 min Scan# 2193

Delta R.T. -0.00 min

Lab File: VU025336.D

Acq: 12 Jul 2018 13:30

Instrument :

MSVOA_U

ClientSampleId :

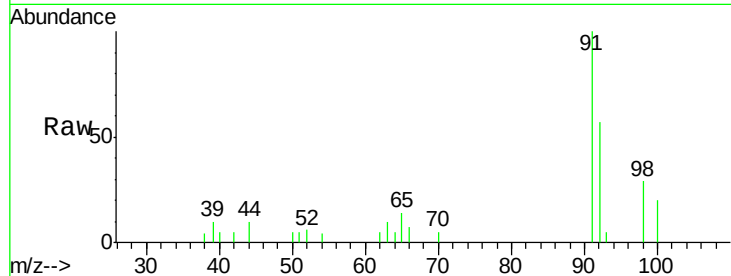
LOD-MDL-WATER-01-QT3-2018

Tot Ion: 92 Resp: 2653

Ion Ratio Lower Upper

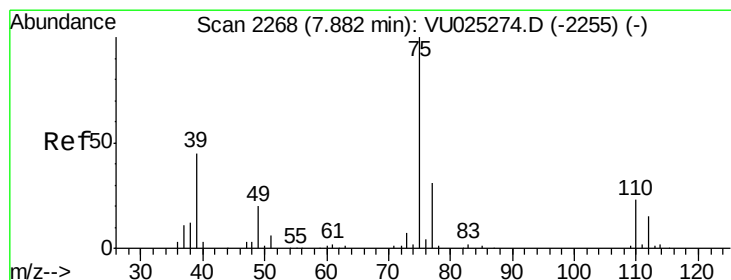
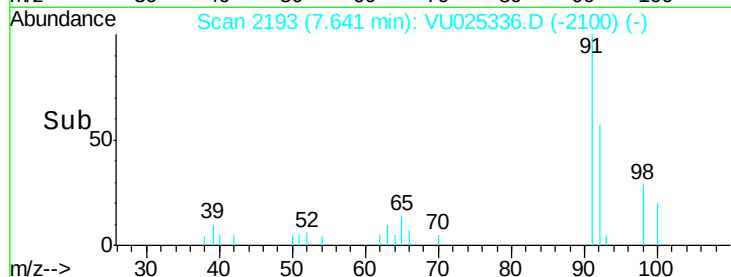
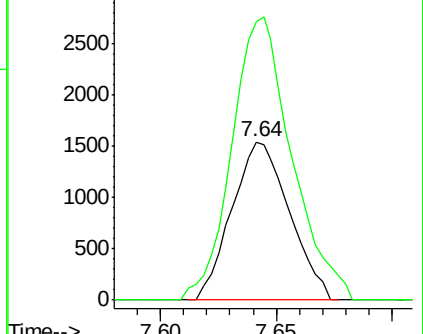
92 100

91 186.1 139.2 208.8



Abundance Ion 92.00 (91.70 to 92.70): VU0

Ion 91.00 (90.70 to 91.70): VU0



#53

t-1,3-Dichloropropene

Concen: 0.43 ug/l

RT: 7.89 min Scan# 2271

Delta R.T. 0.01 min

Lab File: VU025336.D

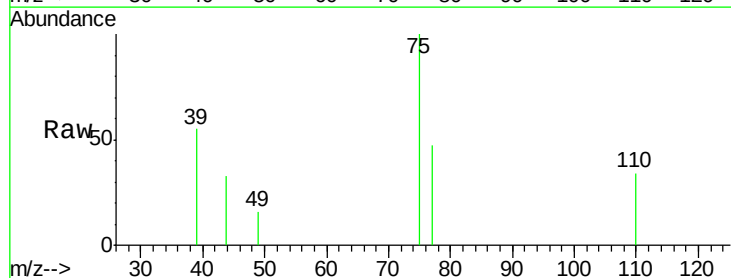
Acq: 12 Jul 2018 13:30

Tgt Ion: 75 Resp: 1320

Ion Ratio Lower Upper

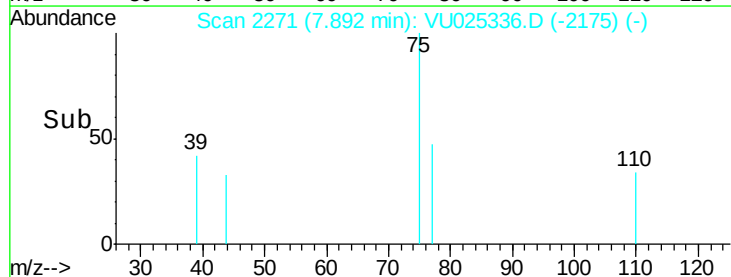
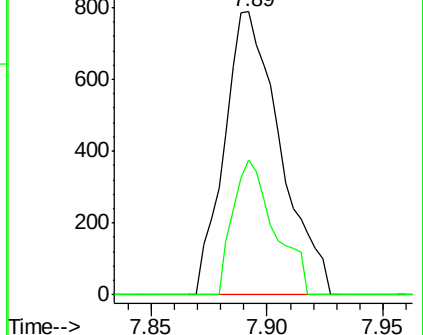
75 100

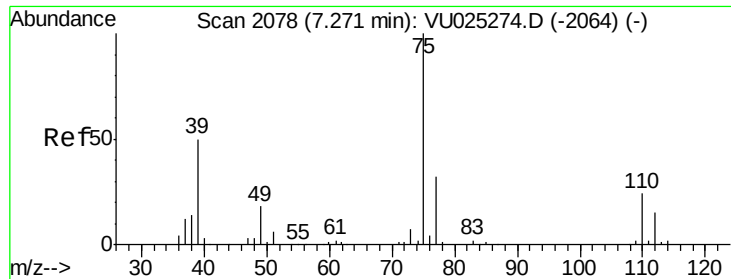
77 47.5 24.5 36.7#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 76.90 (76.60 to 77.60): VU0





#54

cis-1,3-Dichloropropene

Concen: 0.50 ug/l

RT: 7.27 min Scan# 2079

Delta R.T. 0.00 min

Lab File: VU025336.D

Acq: 12 Jul 2018 13:30

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

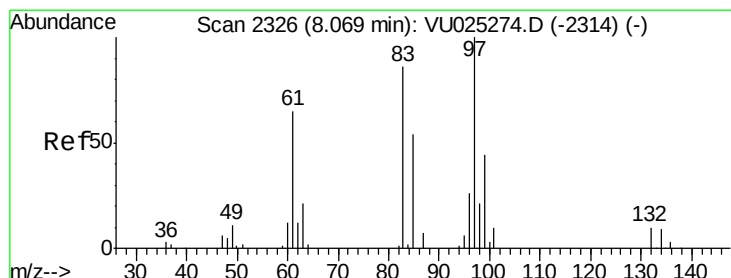
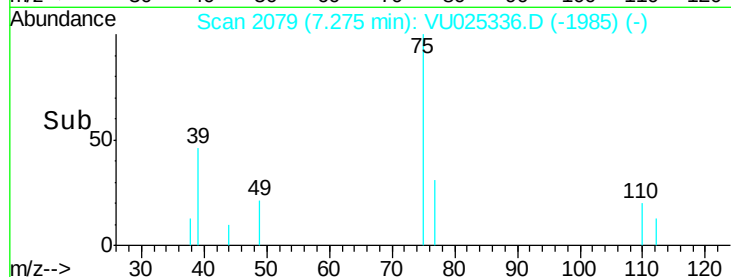
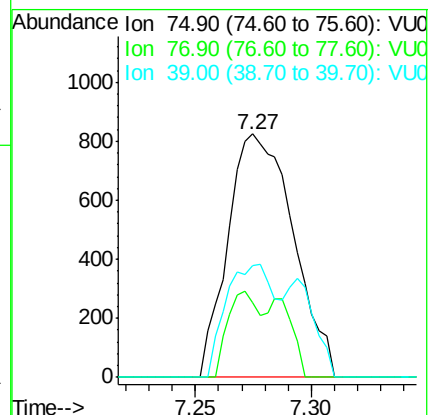
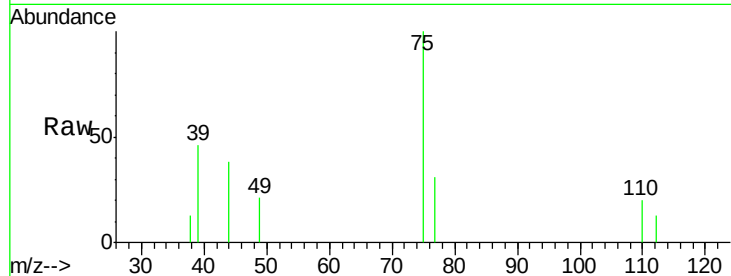
Tot Ion: 75 Resp: 1613

Ion Ratio Lower Upper

75 100

77 30.8 25.6 38.4

39 45.9 40.0 60.0



#55

1,1,2-Trichloroethane

Concen: 0.45 ug/l

RT: 8.08 min Scan# 2328

Delta R.T. 0.01 min

Lab File: VU025336.D

Acq: 12 Jul 2018 13:30

Tgt Ion: 97 Resp: 933

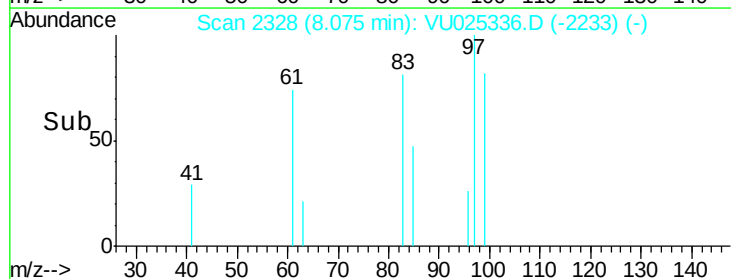
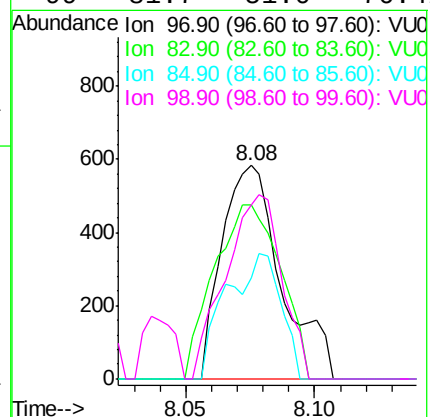
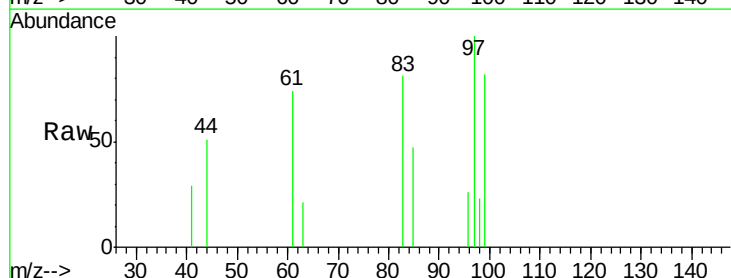
Ion Ratio Lower Upper

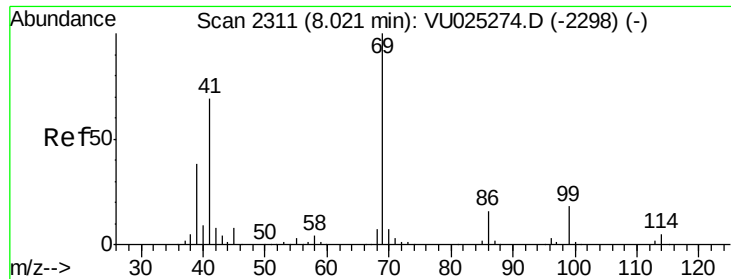
97 100

83 81.3 68.9 103.3

85 47.1 44.4 66.6

99 81.7 51.0 76.4#

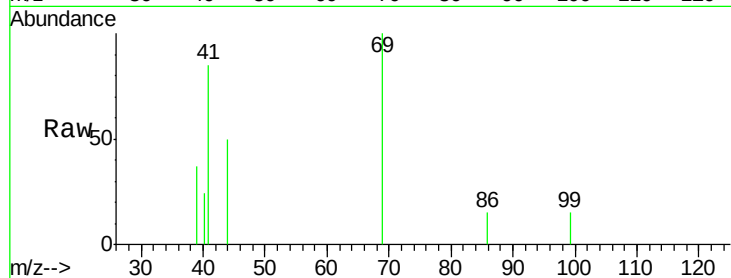




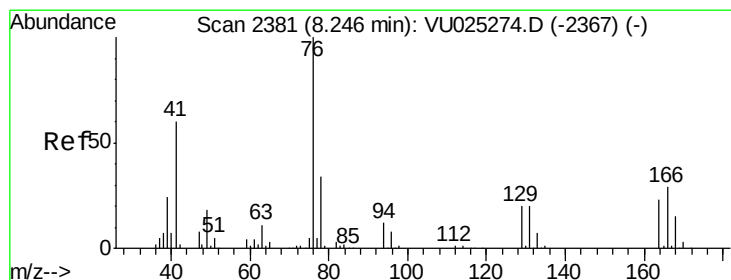
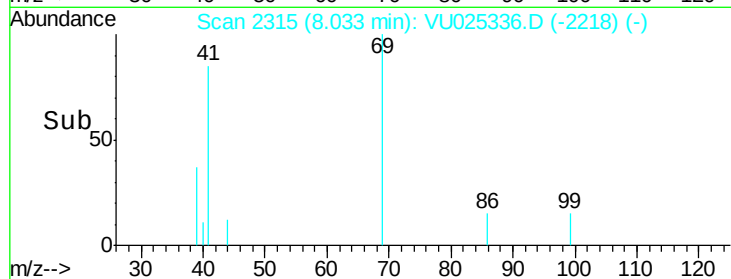
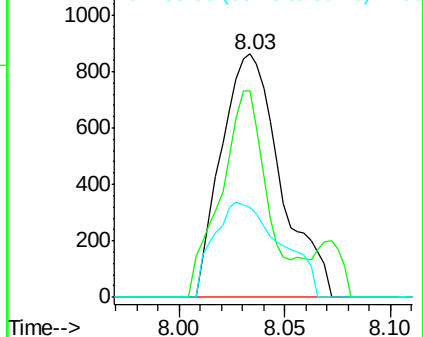
#56
Ethyl methacrylate
Concen: 0.52 ug/l
RT: 8.03 min Scan# 2315
Delta R.T. 0.01 min
Lab File: VU025336.D
Acq: 12 Jul 2018 13:30

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT3-2018

Tot Ion: 69 Resp: 1683
Ion Ratio Lower Upper
69 100
41 64.6 54.8 82.2
39 44.2 31.1 46.7

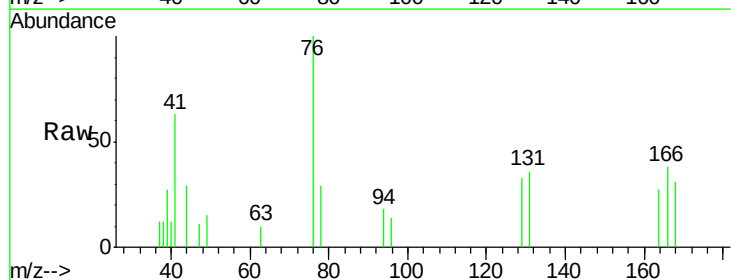


Abundance Ion 69.00 (68.70 to 69.70): VU0
Ion 41.00 (40.70 to 41.70): VU0
Ion 39.00 (38.70 to 39.70): VU0

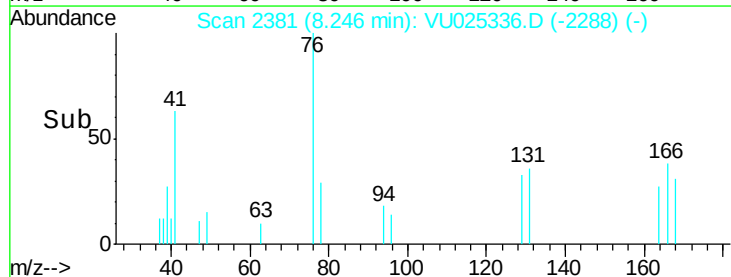
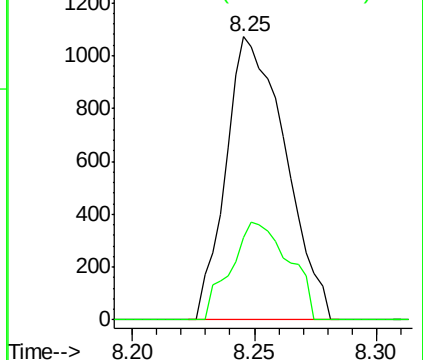


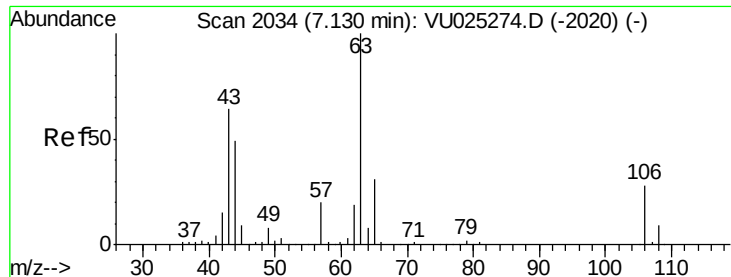
#57
1,3-Dichloropropane
Concen: 0.53 ug/l
RT: 8.25 min Scan# 2381
Delta R.T. -0.00 min
Lab File: VU025336.D
Acq: 12 Jul 2018 13:30

Tgt Ion: 76 Resp: 1814
Ion Ratio Lower Upper
76 100
78 33.6 26.1 39.1



Abundance Ion 75.90 (75.60 to 76.60): VU0
Ion 77.90 (77.60 to 78.60): VU0





#58

2-Chloroethyl Vinyl ether

Concen: 12.31 ug/l

RT: 7.14 min Scan# 2037

Delta R.T. 0.01 min

Lab File: VU025336.D

Acq: 12 Jul 2018 13:30

Instrument :

MSVOA_U

ClientSampleId :

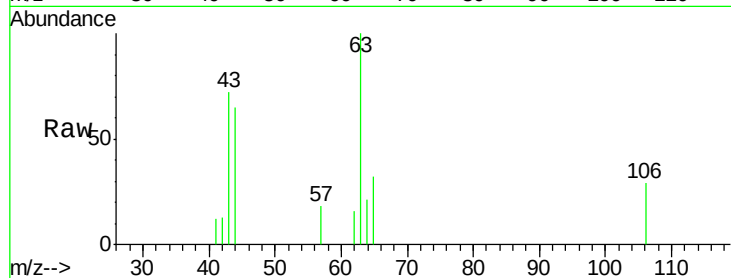
LOD-MDL-WATER-01-QT3-2018

Tot Ion: 63 Resp: 1996

Ion Ratio Lower Upper

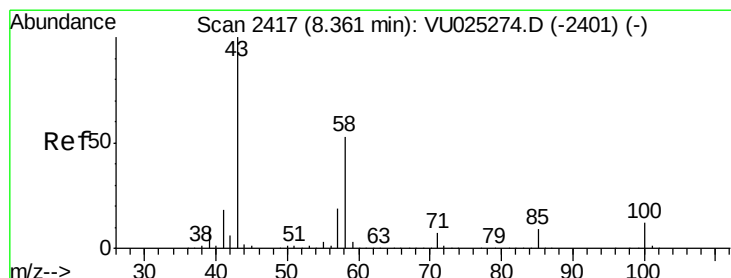
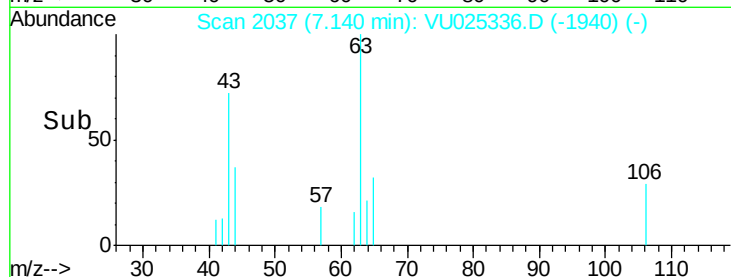
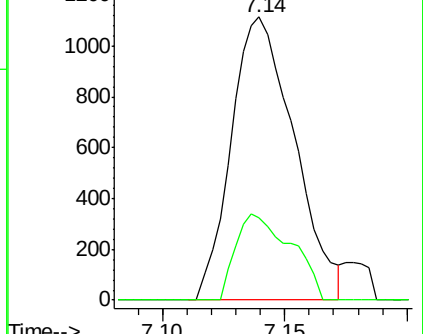
63 100

106 26.8 22.3 33.5



Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 105.90 (105.60 to 106.60): V



#59

2-Hexanone

Concen: 2.61 ug/l

RT: 8.37 min Scan# 2421

Delta R.T. 0.01 min

Lab File: VU025336.D

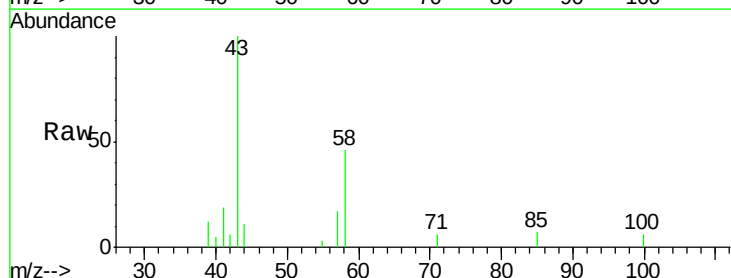
Acq: 12 Jul 2018 13:30

Tgt Ion: 43 Resp: 6664

Ion Ratio Lower Upper

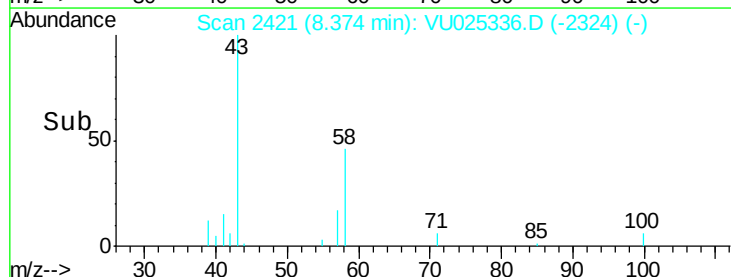
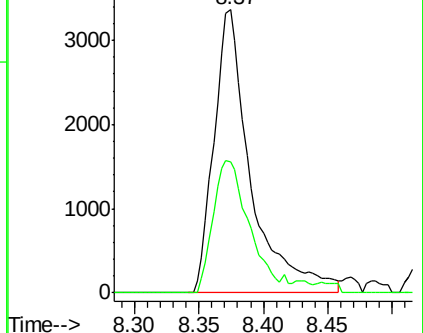
43 100

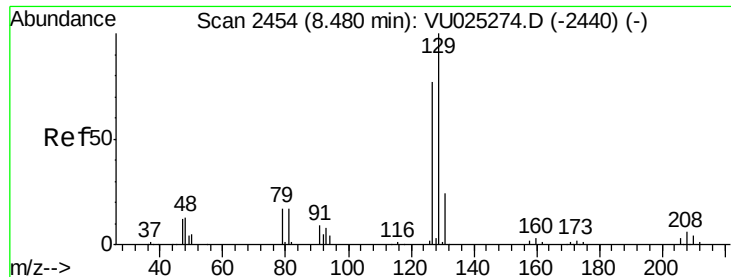
58 46.6 26.2 78.5



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0





#60

Dibromochloromethane

Concen: 0.46 ug/l

RT: 8.48 min Scan# 2454

Delta R.T. -0.00 min

Lab File: VU025336.D

Acq: 12 Jul 2018 13:30

Instrument :

MSVOA_U

ClientSampleId :

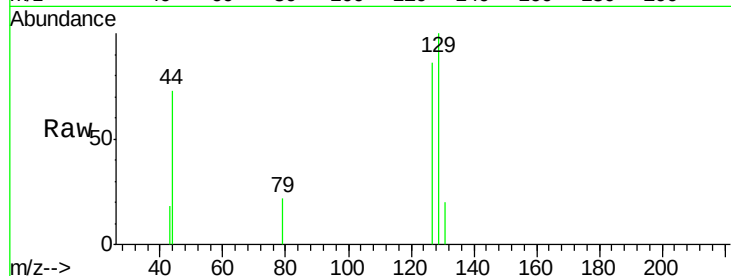
LOD-MDL-WATER-01-QT3-2018

Tot Ion:129 Resp: 1023

Ion Ratio Lower Upper

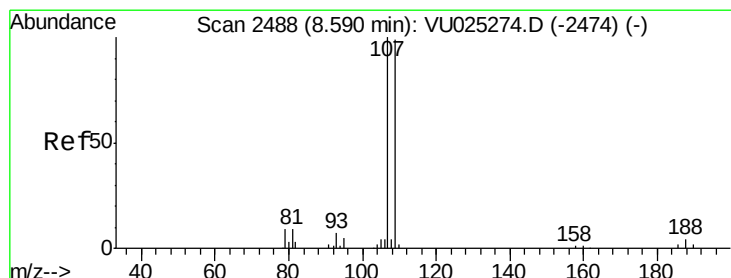
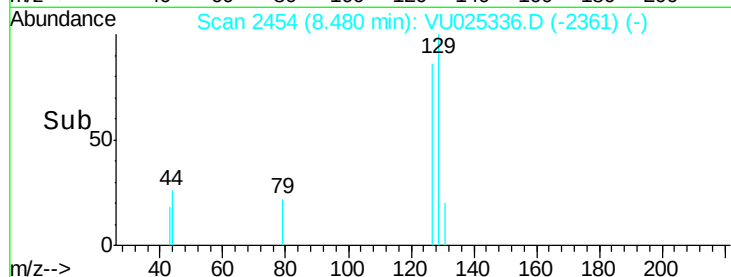
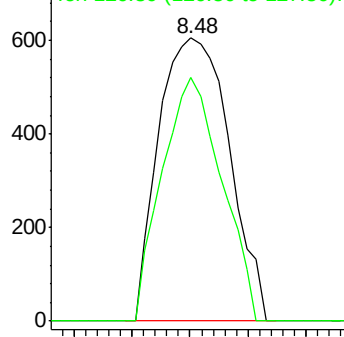
129 100

127 73.1 38.6 115.8



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#61

1,2-Dibromoethane

Concen: 0.46 ug/l

RT: 8.59 min Scan# 2488

Delta R.T. -0.00 min

Lab File: VU025336.D

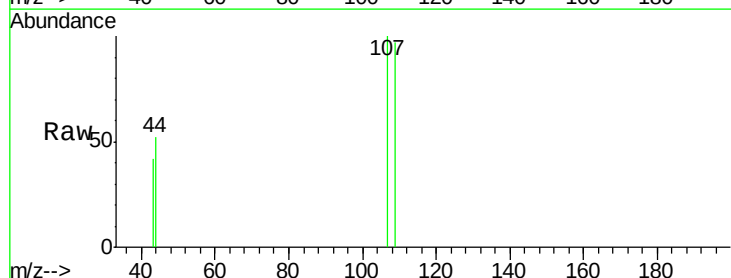
Acq: 12 Jul 2018 13:30

Tgt Ion:107 Resp: 1023

Ion Ratio Lower Upper

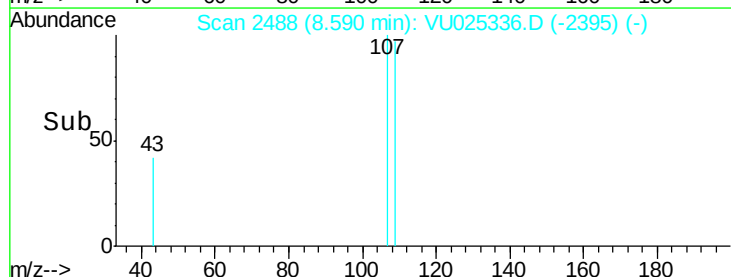
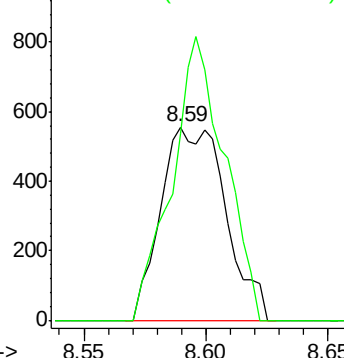
107 100

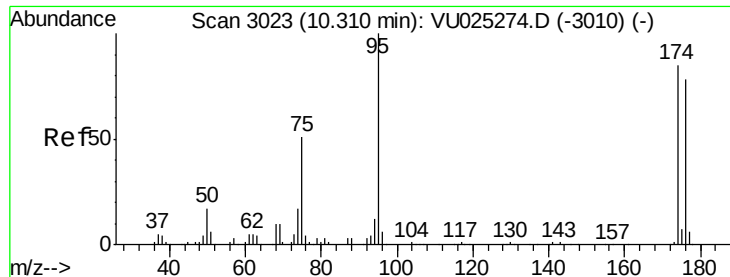
109 119.0 75.8 113.8#



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

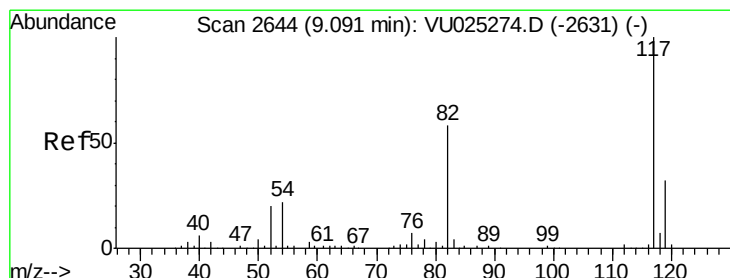
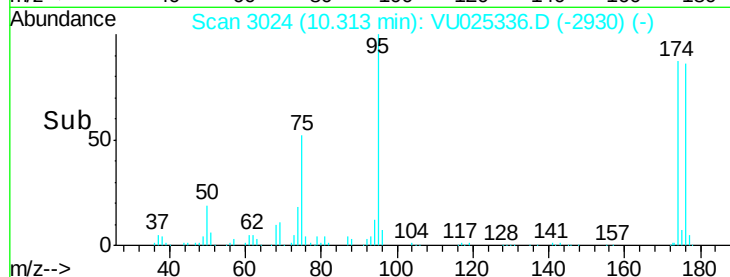
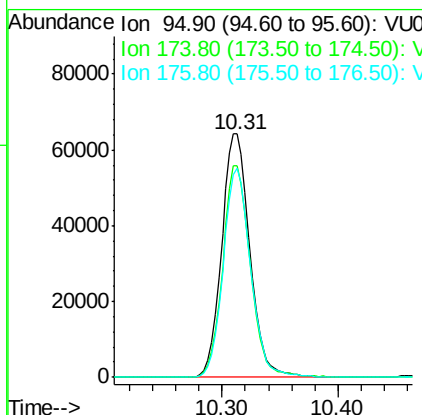
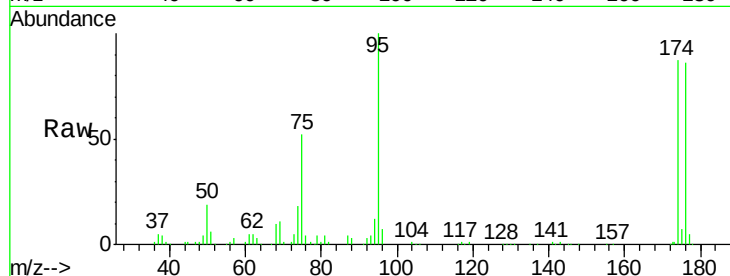




#62
4-Bromofluorobenzene
Concen: 38.14 ug/l
RT: 10.31 min Scan# 3024
Delta R.T. 0.00 min
Lab File: VU025336.D
Acq: 12 Jul 2018 13:30

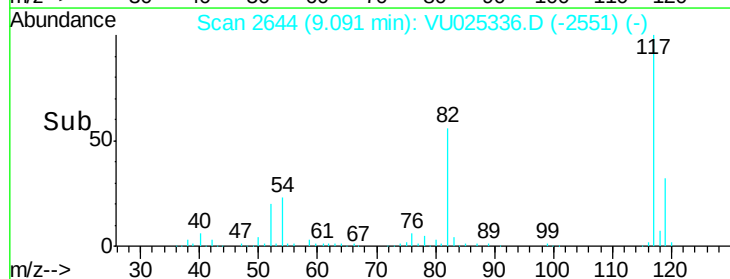
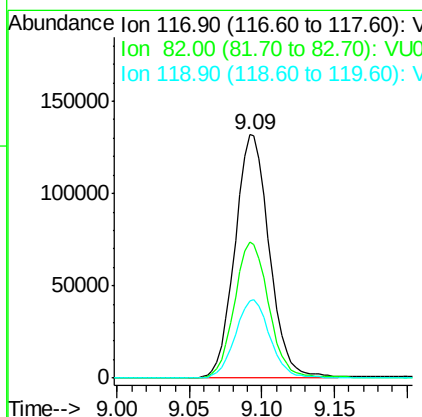
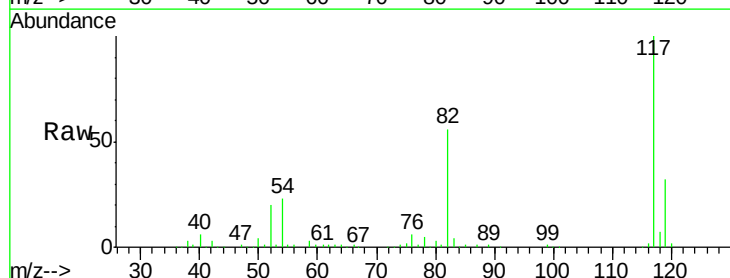
Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT3-2018

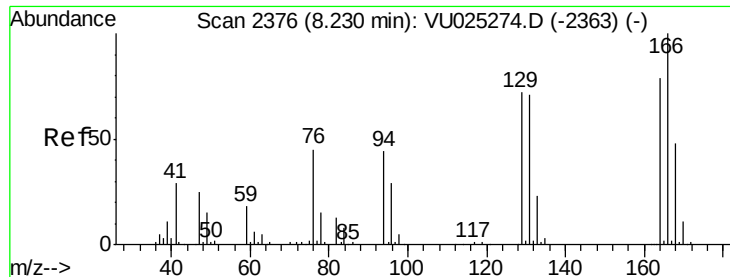
Tot Ion: 95 Resp: 108205
Ion Ratio Lower Upper
95 100
174 85.7 0.0 172.2
176 83.7 0.0 162.6



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VU025336.D
Acq: 12 Jul 2018 13:30

Tgt Ion: 117 Resp: 217649
Ion Ratio Lower Upper
117 100
82 56.1 46.0 69.0
119 31.7 26.0 39.0





#64

Tetrachloroethene

Concen: 0.52 ug/l

RT: 8.23 min Scan# 2376

Delta R.T. -0.00 min

Lab File: VU025336.D

Acq: 12 Jul 2018 13:30

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

Tot Ion:164 Resp: 1032

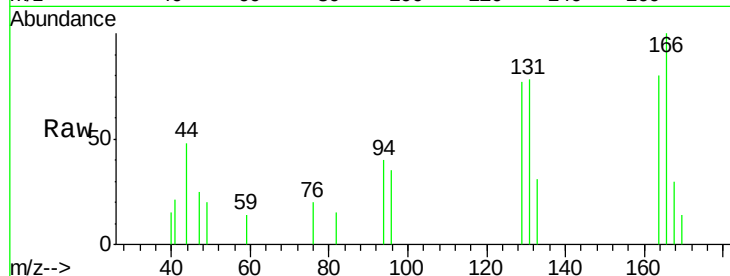
Ion Ratio Lower Upper

164 100

166 124.6 101.1 151.7

129 95.7 73.0 109.6

131 97.5 72.1 108.1

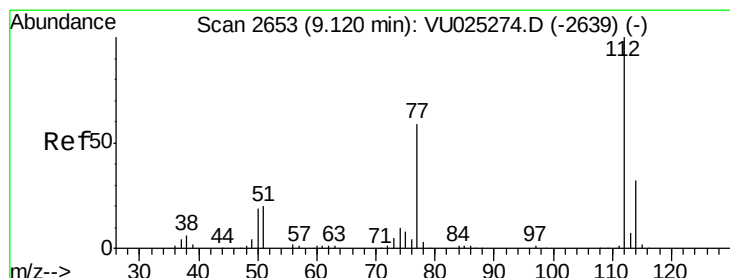
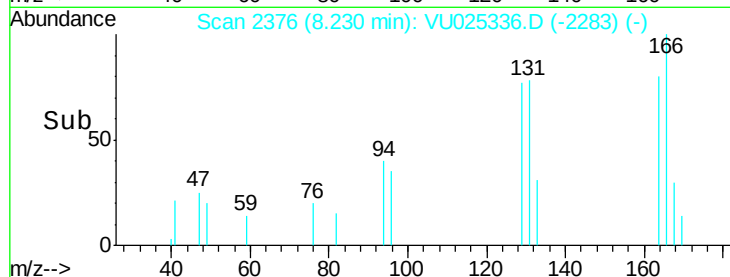
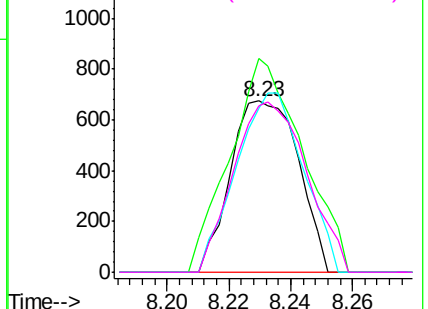


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#65

Chlorobenzene

Concen: 0.59 ug/l

RT: 9.12 min Scan# 2654

Delta R.T. 0.00 min

Lab File: VU025336.D

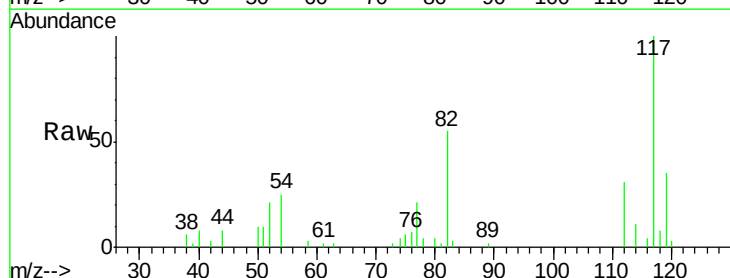
Acq: 12 Jul 2018 13:30

Tgt Ion:112 Resp: 3221

Ion Ratio Lower Upper

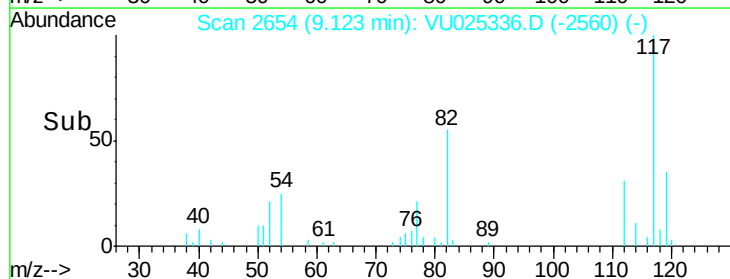
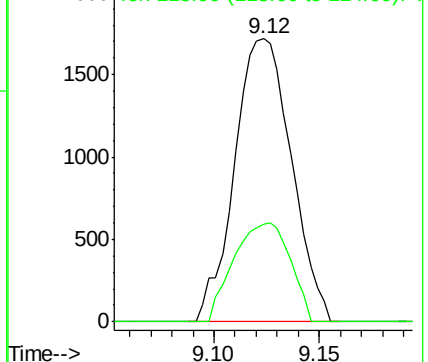
112 100

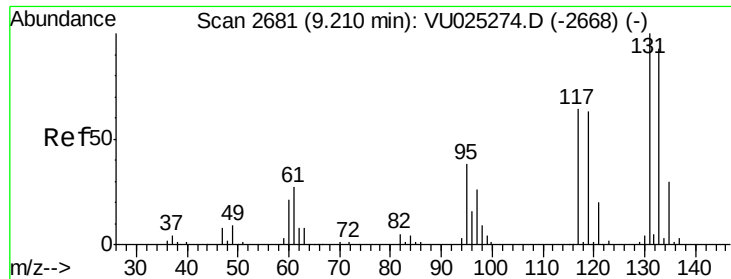
114 34.3 25.8 38.8



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V





#66

1,1,1,2-Tetrachloroethane

Concen: 0.54 ug/l

RT: 9.21 min Scan# 2682

Delta R.T. 0.00 min

Lab File: VU025336.D

Acq: 12 Jul 2018 13:30

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

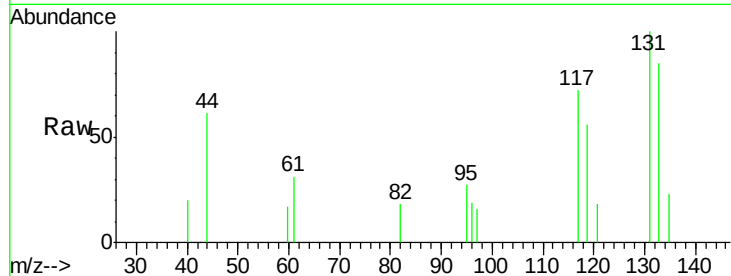
Tot Ion:131 Resp: 1053

Ion Ratio Lower Upper

131 100

133 91.2 47.8 143.3

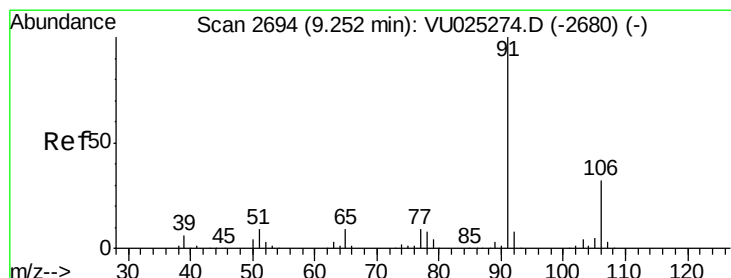
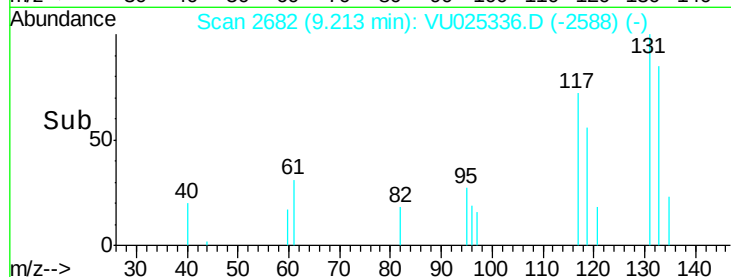
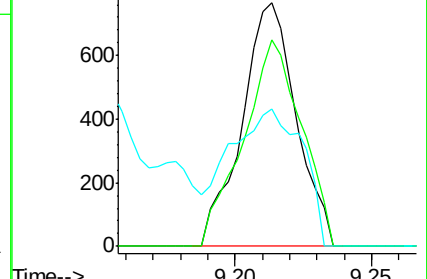
119 0.0 31.6 95.0#



Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V



#67

Ethyl Benzene

Concen: 0.54 ug/l

RT: 9.26 min Scan# 2695

Delta R.T. 0.00 min

Lab File: VU025336.D

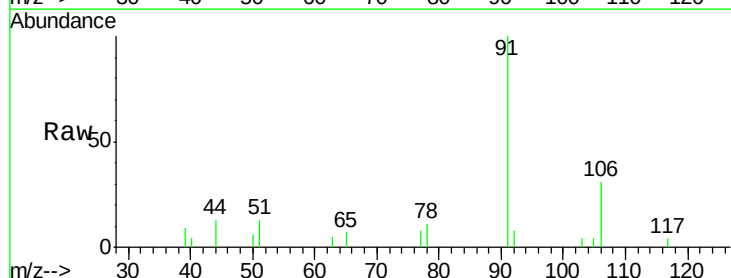
Acq: 12 Jul 2018 13:30

Tgt Ion: 91 Resp: 5025

Ion Ratio Lower Upper

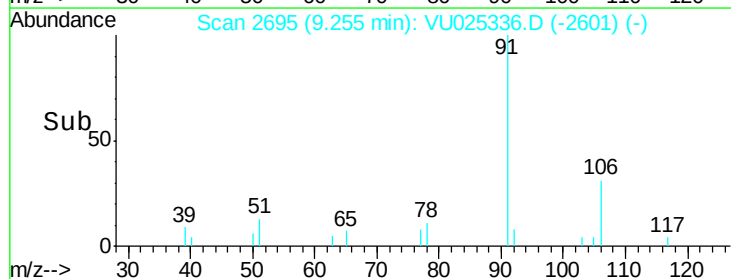
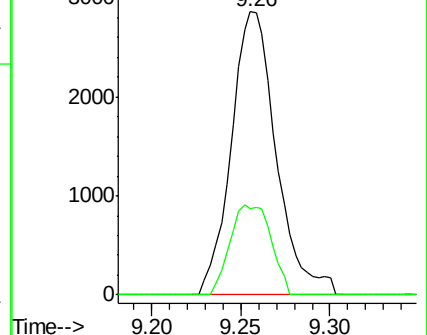
91 100

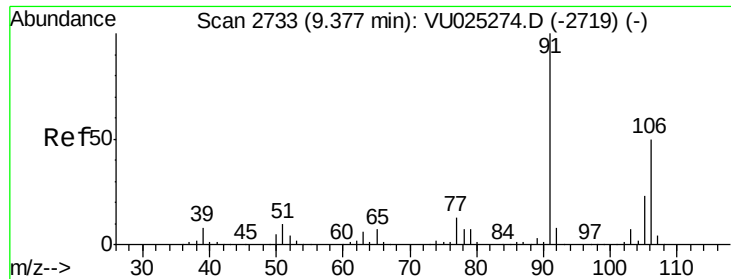
106 30.5 25.3 37.9



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 106.00 (105.70 to 106.70): V

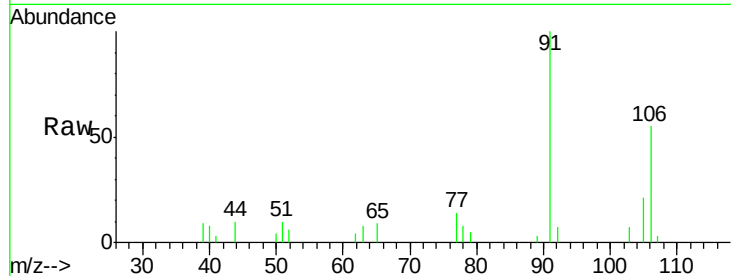




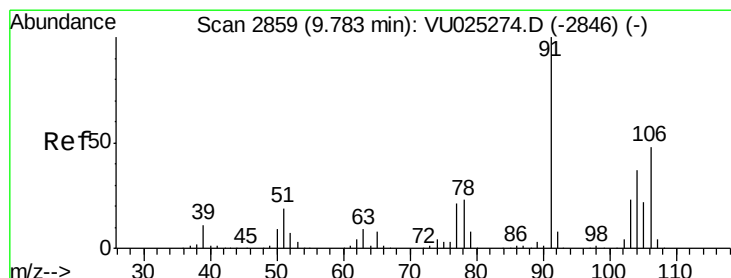
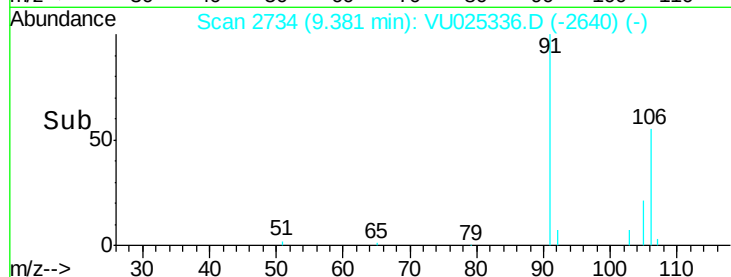
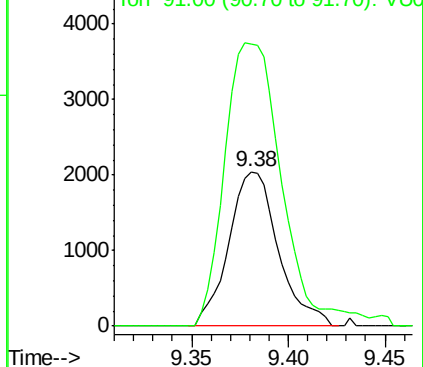
#68
m/p-Xylenes
Concen: 1.02 ug/l
RT: 9.38 min Scan# 2734
Delta R.T. 0.00 min
Lab File: VU025336.D
Acq: 12 Jul 2018 13:30

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT3-2018

Tot Ion:106 Resp: 3651
Ion Ratio Lower Upper
106 100
91 211.1 162.3 243.5

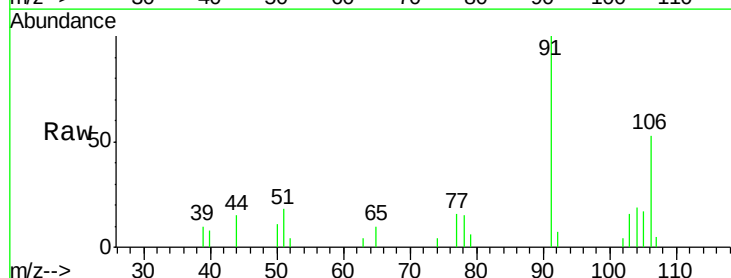


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

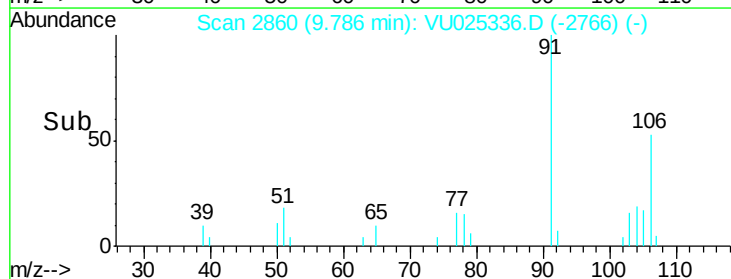
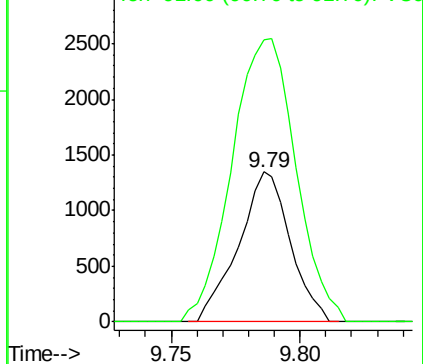


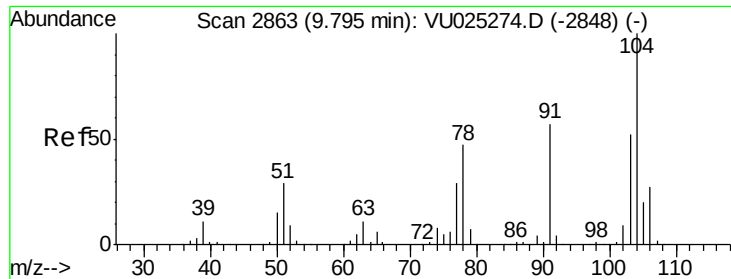
#69
o-Xylene
Concen: 0.53 ug/l
RT: 9.79 min Scan# 2860
Delta R.T. 0.00 min
Lab File: VU025336.D
Acq: 12 Jul 2018 13:30

Tgt Ion:106 Resp: 1884
Ion Ratio Lower Upper
106 100
91 232.9 105.3 315.8



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

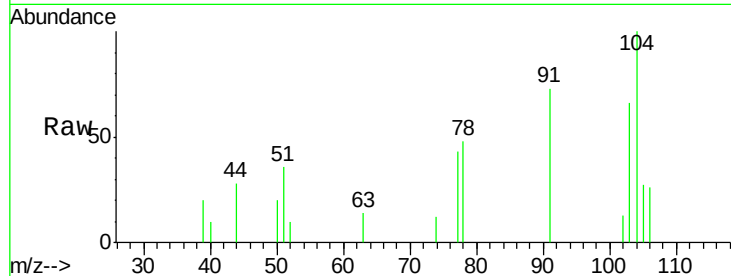




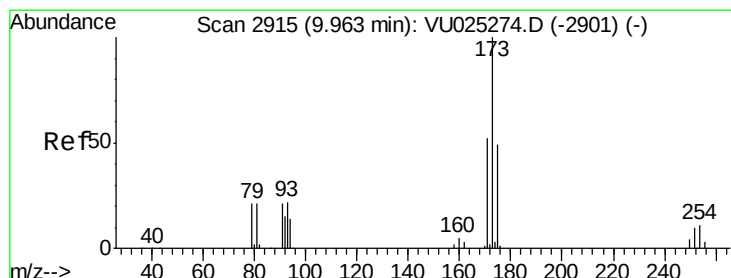
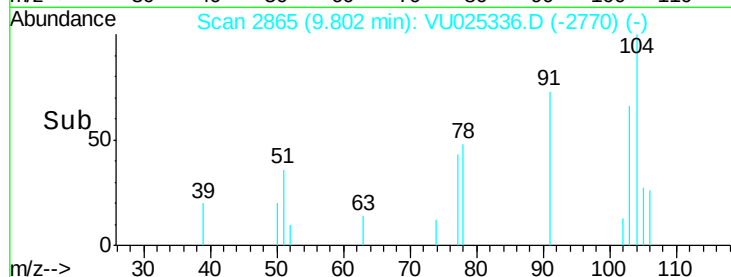
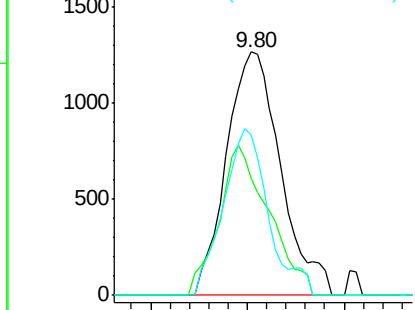
#70
Stvrene
Concen: 0.43 ug/l
RT: 9.80 min Scan# 2865
Delta R.T. 0.01 min
Lab File: VU025336.D
Acq: 12 Jul 2018 13:30

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT3-2018

Tot Ion:104 Resp: 2466
Ion Ratio Lower Upper
104 100
78 56.4 41.6 62.4
103 56.9 44.6 66.8

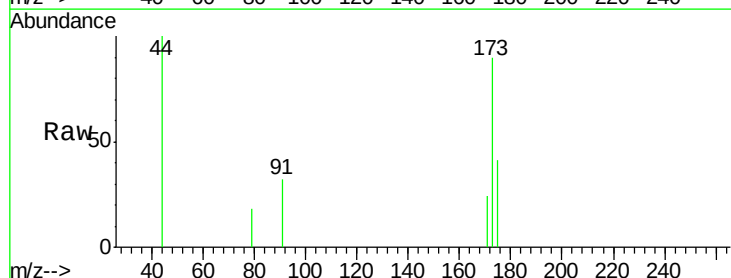


Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VU0
Ion 103.00 (102.70 to 103.70): V

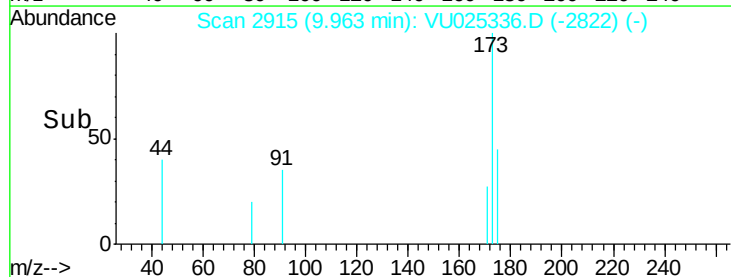
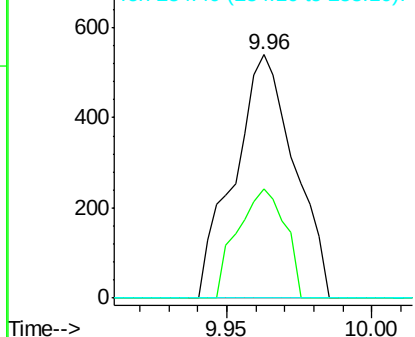


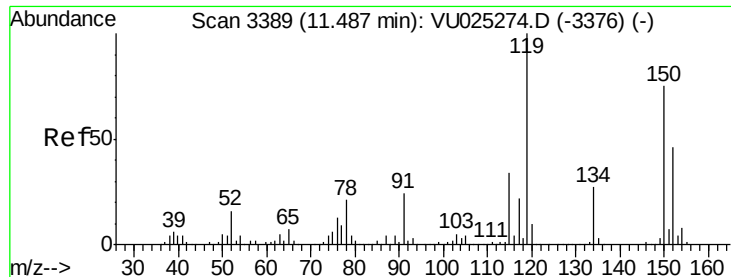
#71
Bromoform
Concen: 4.97 ug/l
RT: 9.96 min Scan# 2915
Delta R.T. 0.00 min
Lab File: VU025336.D
Acq: 12 Jul 2018 13:30

Tgt Ion:173 Resp: 777
Ion Ratio Lower Upper
173 100
175 35.4 24.0 72.0
254 0.0 0.0 0.0



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





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. -0.00 min

Lab File: VU025336.D

Acq: 12 Jul 2018 13:30

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

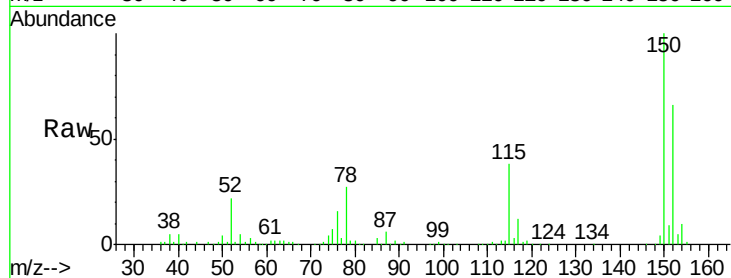
Tot Ion:152 Resp: 108425

Ion Ratio Lower Upper

152 100

115 57.5 40.1 120.3

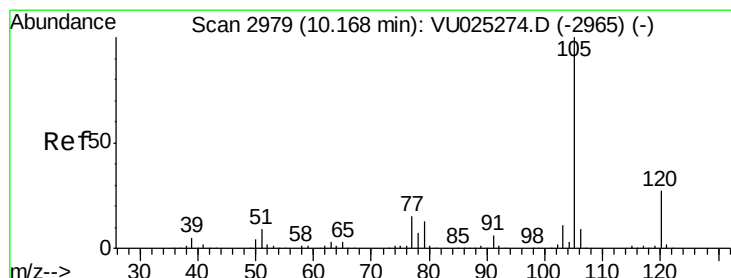
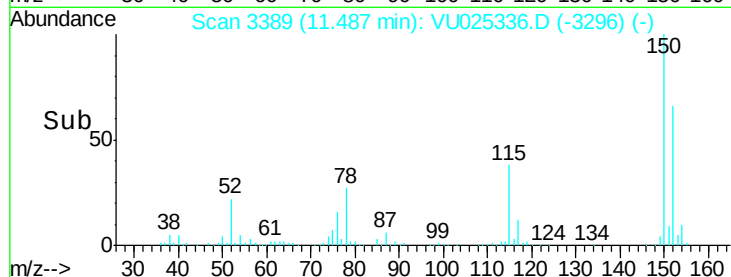
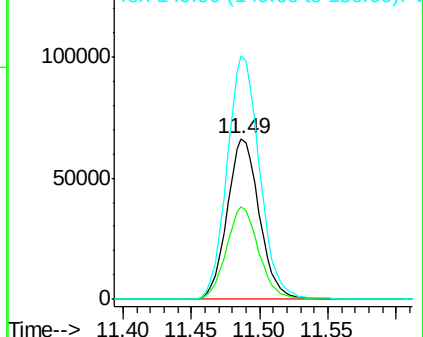
150 153.9 0.0 351.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: 0.59 ug/l

RT: 10.17 min Scan# 2980

Delta R.T. 0.00 min

Lab File: VU025336.D

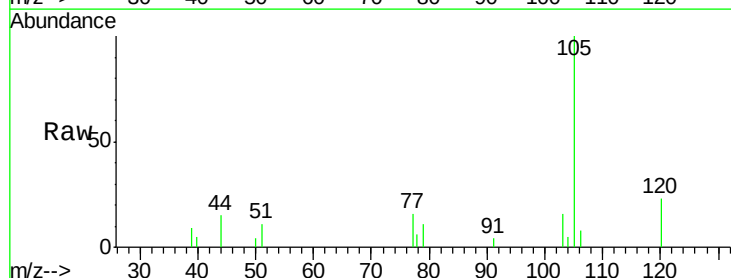
Acq: 12 Jul 2018 13:30

Tgt Ion:105 Resp: 4912

Ion Ratio Lower Upper

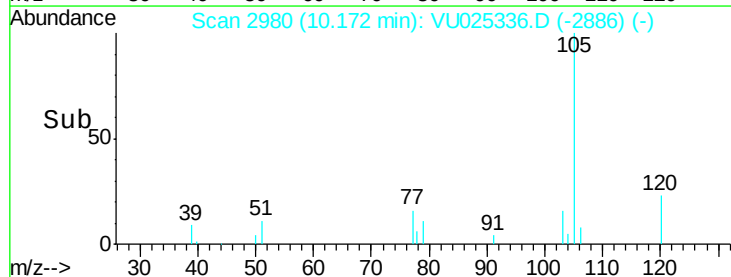
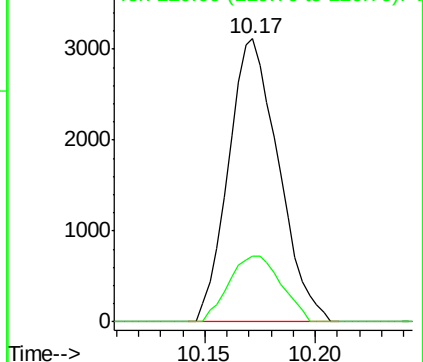
105 100

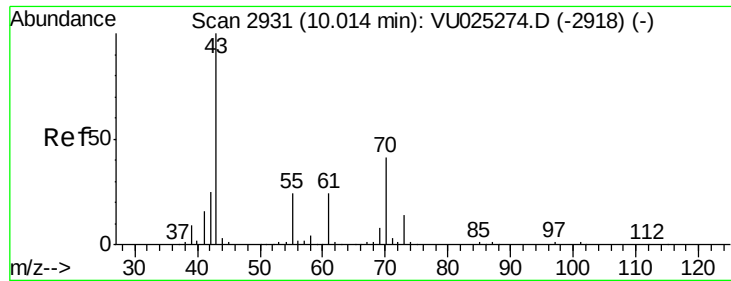
120 24.4 13.5 40.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#74

N-amvl acetate

Concen: 1.96 ug/l

RT: 10.02 min Scan# 2932

Delta R.T. 0.00 min

Lab File: VU025336.D

Acq: 12 Jul 2018 13:30

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

Tot Ion: 43 Resp: 2418

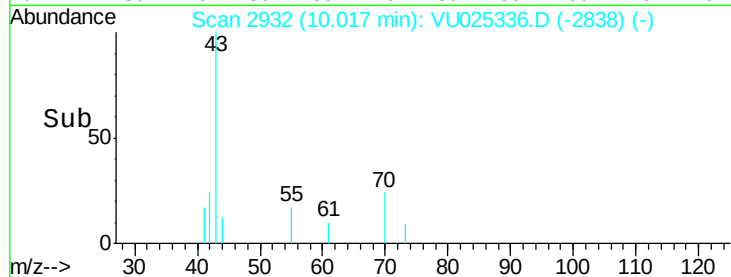
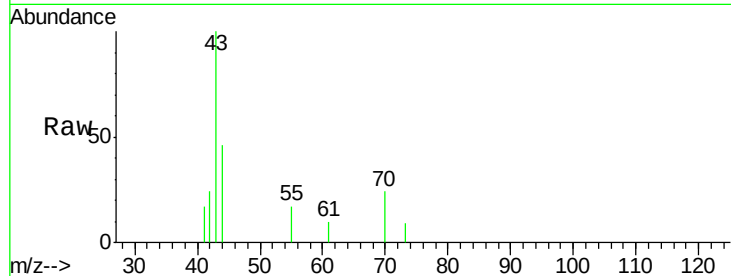
Ion Ratio Lower Upper

43 100

70 24.9 33.4 50.2#

55 16.8 19.0 28.6#

61 14.8 19.3 28.9#

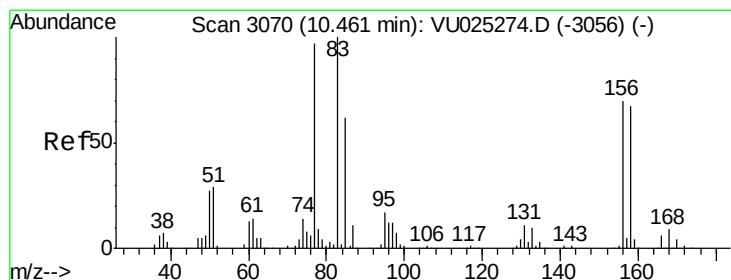
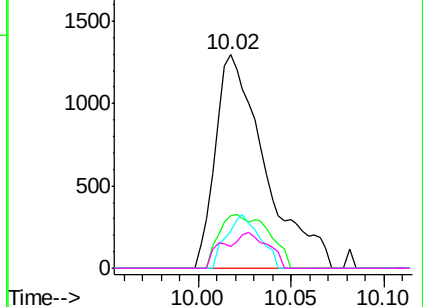


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 61.00 (60.70 to 61.70): VU0



#75

1,1,2,2-Tetrachloroethane

Concen: 0.70 ug/l

RT: 10.46 min Scan# 3070

Delta R.T. -0.00 min

Lab File: VU025336.D

Acq: 12 Jul 2018 13:30

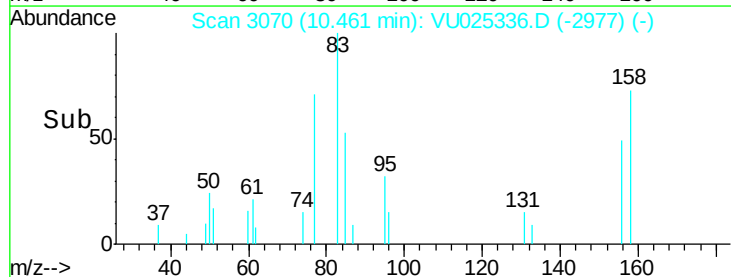
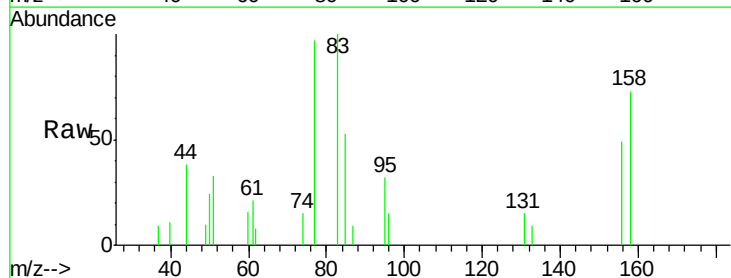
Tgt Ion: 83 Resp: 1898

Ion Ratio Lower Upper

83 100

131 6.7 5.5 16.4

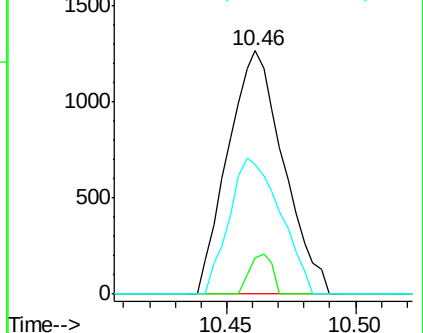
85 51.5 31.6 94.8

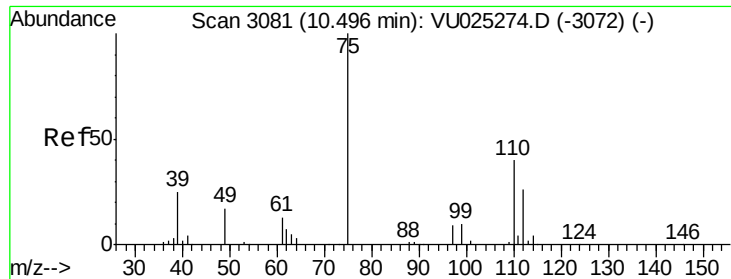


Abundance Ion 82.90 (82.60 to 83.60): VU0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VU0

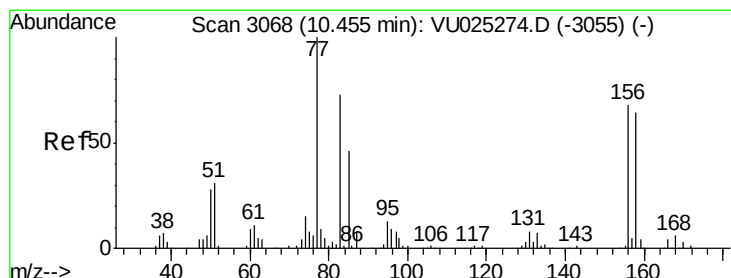
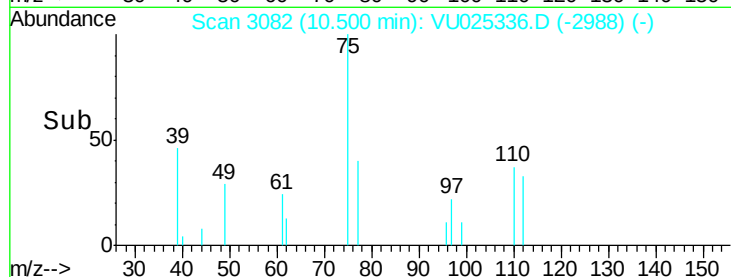
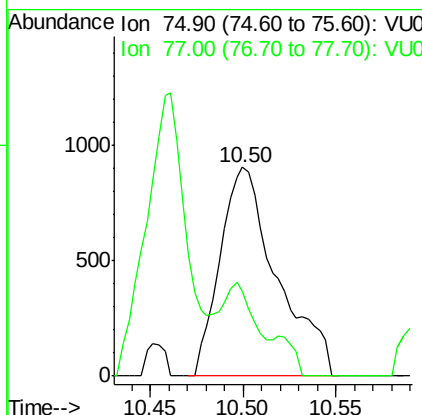
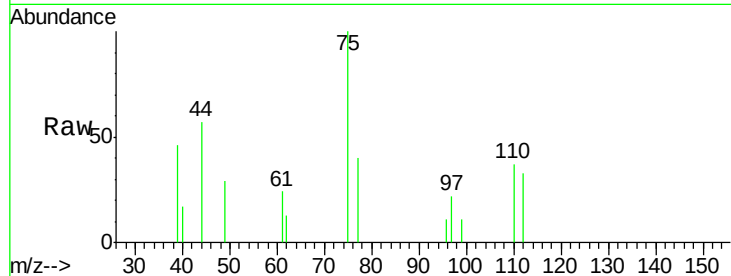




#76
 1,2,3-Trichloropropane
 Concen: 1.75 ug/l
 RT: 10.50 min Scan# 3082
 Delta R.T. 0.00 min
 Lab File: VU025336.D
 Acq: 12 Jul 2018 13:30

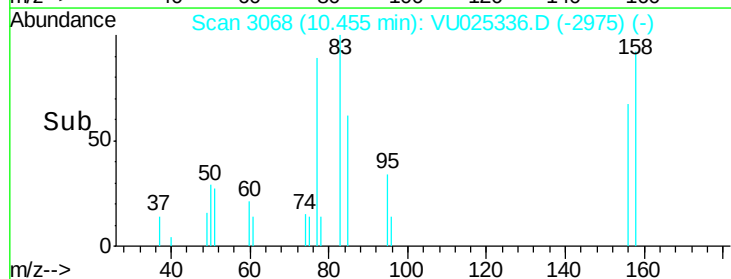
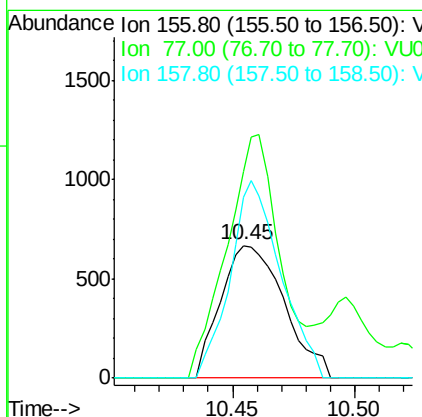
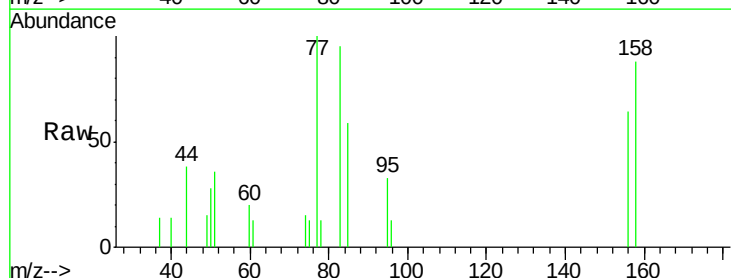
Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2018

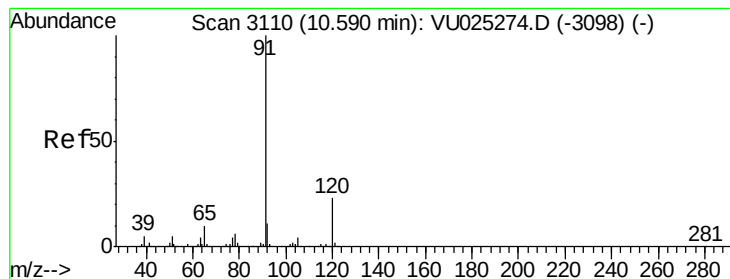
Tot Ion: 75 Resp: 1938
 Ion Ratio Lower Upper
 75 100
 77 14.7 20.4 61.3#



#77
 Bromobenzene
 Concen: 0.57 ug/l
 RT: 10.45 min Scan# 3068
 Delta R.T. -0.00 min
 Lab File: VU025336.D
 Acq: 12 Jul 2018 13:30

Tgt Ion: 156 Resp: 1207
 Ion Ratio Lower Upper
 156 100
 77 152.4 73.8 221.4
 158 118.7 48.0 144.0





#78

n-propylbenzene

Concen: 0.53 ug/l

RT: 10.60 min Scan# 3112

Delta R.T. 0.01 min

Lab File: VU025336.D

Acq: 12 Jul 2018 13:30

Instrument :

MSVOA_U

ClientSampleId :

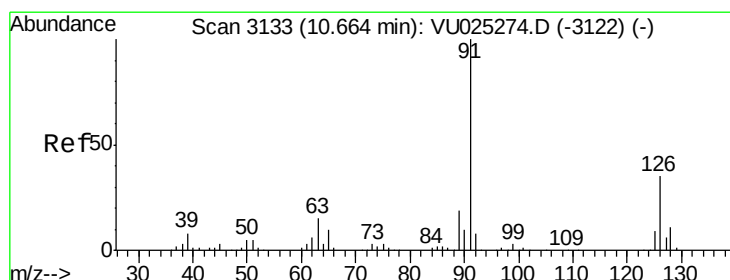
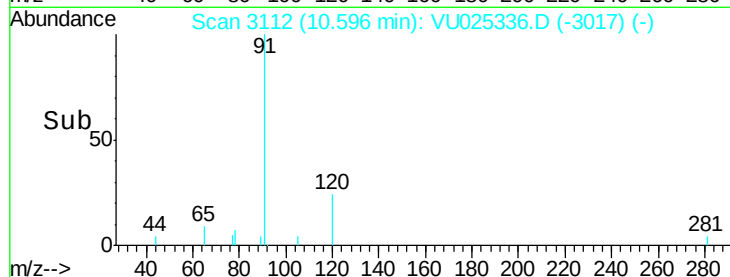
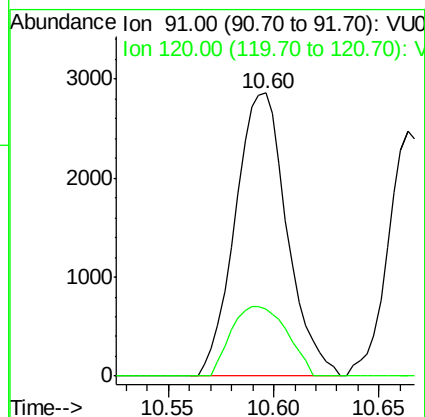
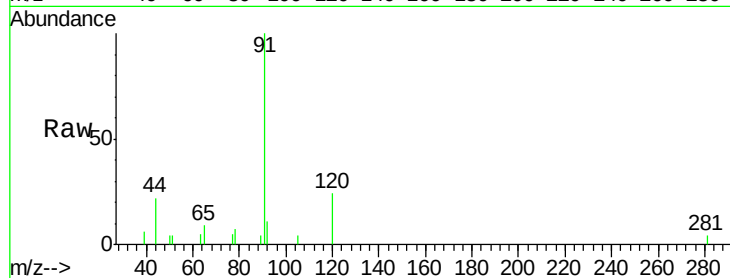
LOD-MDL-WATER-01-QT3-2018

Tot Ion: 91 Resp: 4877

Ion Ratio Lower Upper

91 100

120 26.4 11.8 35.3



#79

2-Chlorotoluene

Concen: 0.86 ug/l

RT: 10.66 min Scan# 3133

Delta R.T. 0.00 min

Lab File: VU025336.D

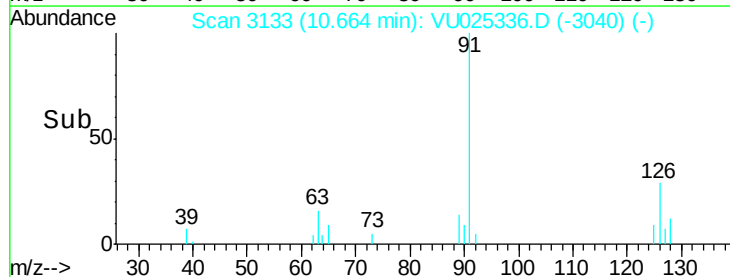
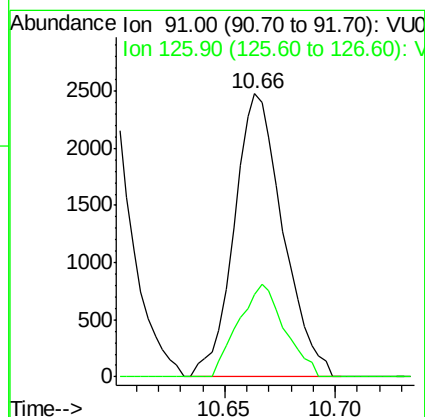
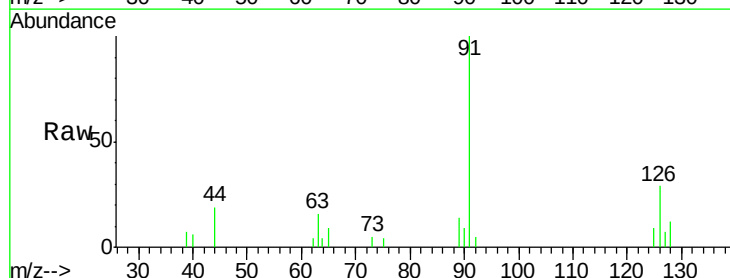
Acq: 12 Jul 2018 13:30

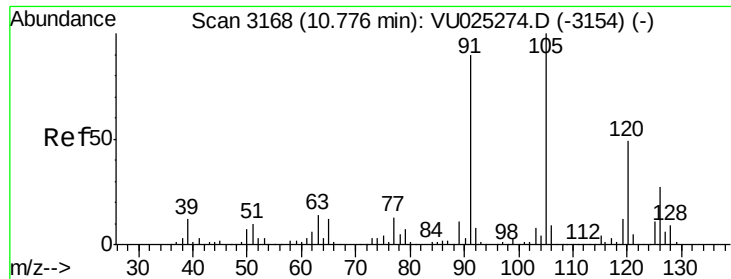
Tgt Ion: 91 Resp: 3799

Ion Ratio Lower Upper

91 100

126 31.1 17.5 52.6

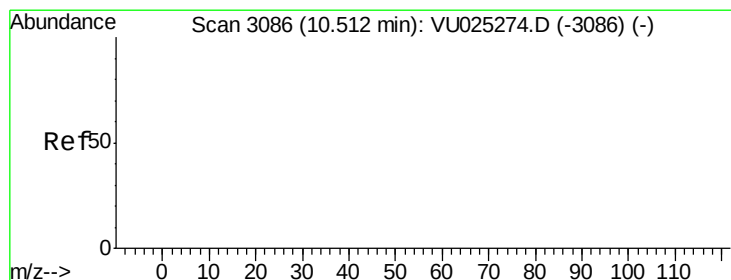
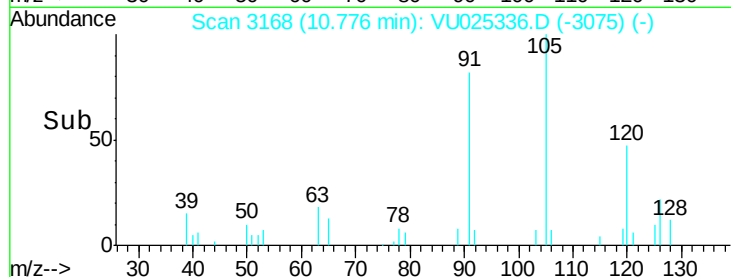
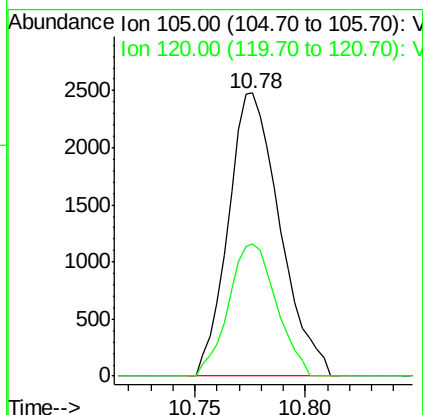
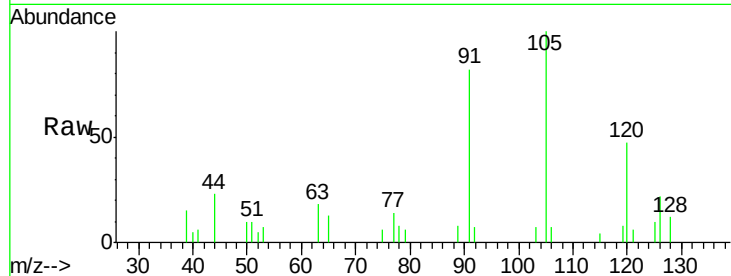




#80
 1,3,5-Trimethylbenzene
 Concen: 0.58 ug/l
 RT: 10.78 min Scan# 3168
 Delta R.T. -0.00 min
 Lab File: VU025336.D
 Acq: 12 Jul 2018 13:30

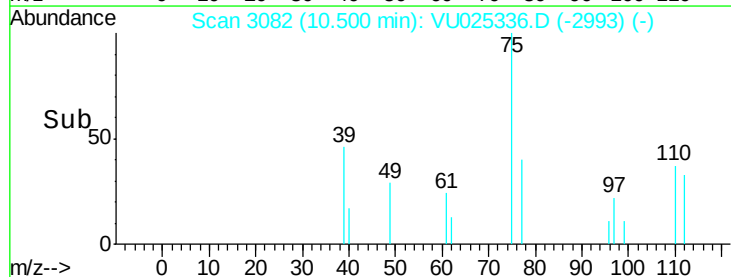
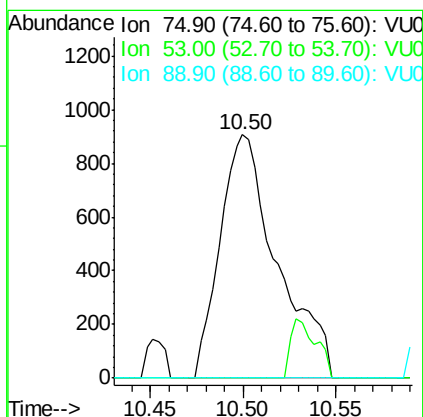
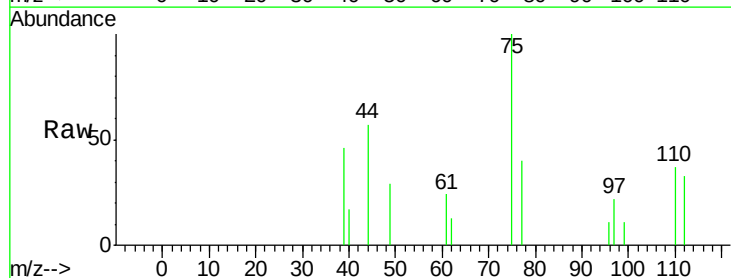
Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2018

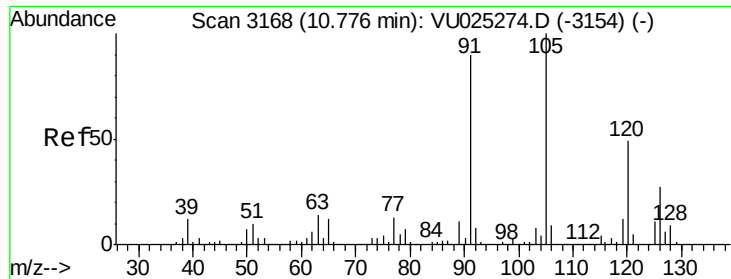
Tot Ion:105 Resp: 4036
 Ion Ratio Lower Upper
 105 100
 120 43.3 24.1 72.2



#81
 trans-1,4-Dichloro-2-butene
 Concen: 2.24 ug/l
 RT: 10.50 min Scan# 3082
 Delta R.T. -0.01 min
 Lab File: VU025336.D
 Acq: 12 Jul 2018 13:30

Tgt Ion: 75 Resp: 1938
 Ion Ratio Lower Upper
 75 100
 53 0.0 0.0 0.0
 89 0.0 0.0 0.0





#82

4-Chlorotoluene

Concen: 0.58 ug/l

RT: 10.78 min Scan# 3169

Delta R.T. 0.00 min

Lab File: VU025336.D

Acq: 12 Jul 2018 13:30

Instrument :

MSVOA_U

ClientSampleId :

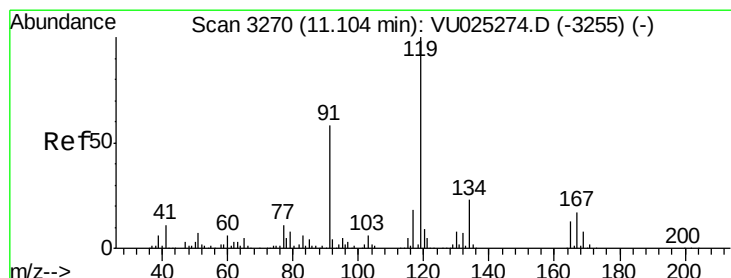
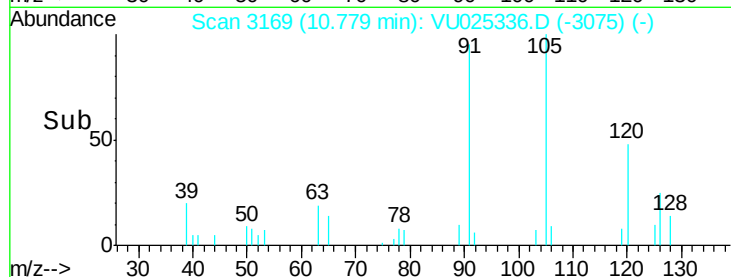
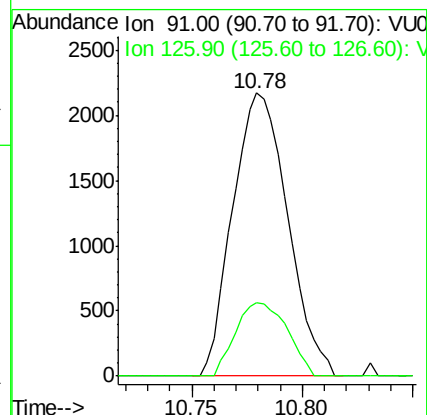
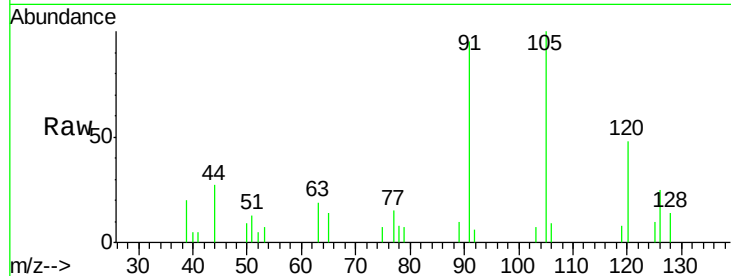
LOD-MDL-WATER-01-QT3-2018

Tot Ion: 91 Resp: 3749

Ion Ratio Lower Upper

91 100

126 24.3 15.3 45.9



#83

tert-Butylbenzene

Concen: 0.60 ug/l

RT: 11.10 min Scan# 3269

Delta R.T. -0.00 min

Lab File: VU025336.D

Acq: 12 Jul 2018 13:30

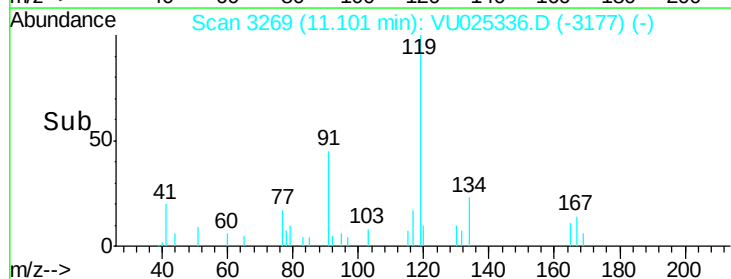
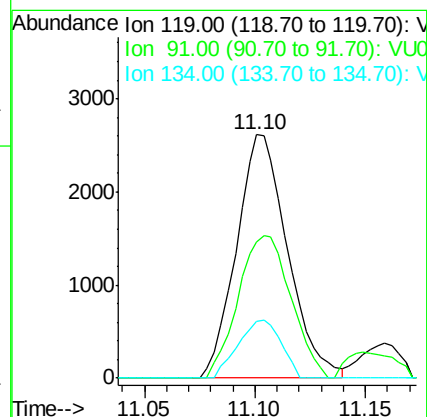
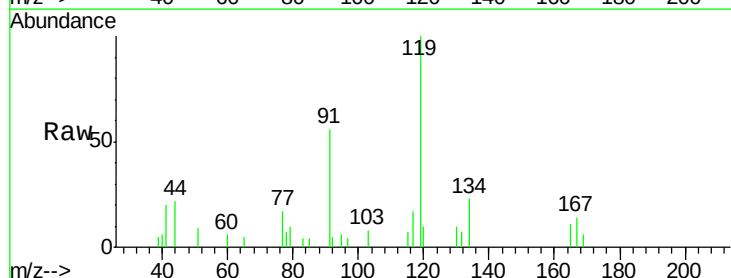
Tgt Ion: 119 Resp: 4193

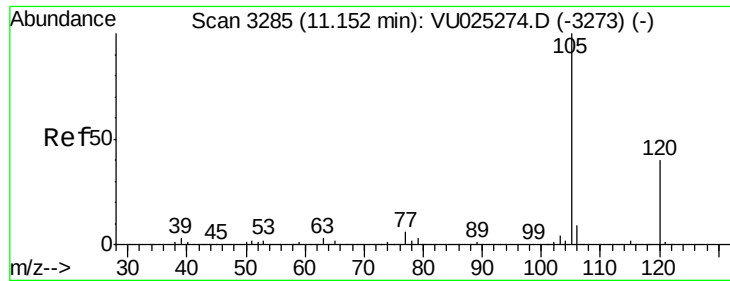
Ion Ratio Lower Upper

119 100

91 60.3 29.7 89.1

134 19.9 11.5 34.5

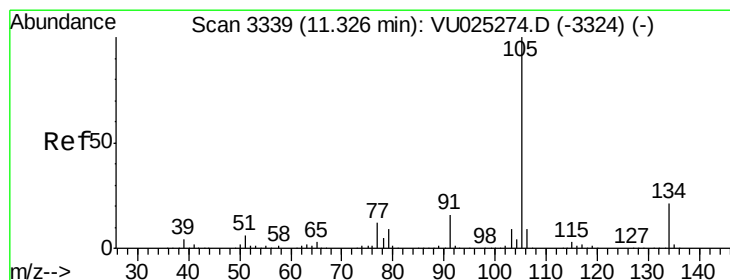
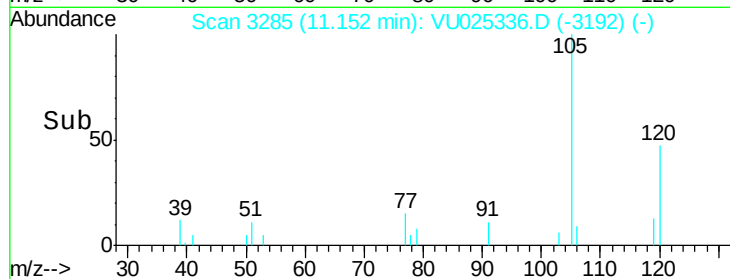
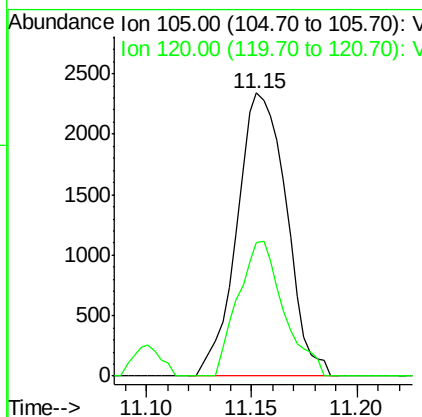
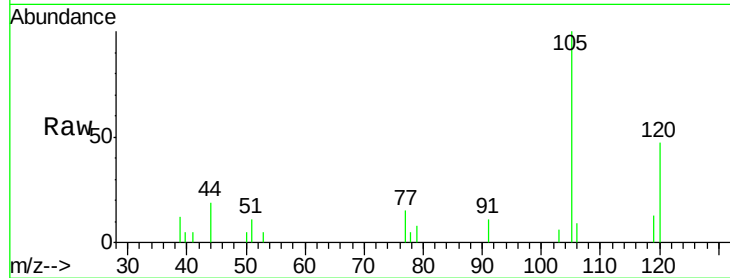




#84
 1,2,4-Trimethylbenzene
 Concen: 0.53 ug/l
 RT: 11.15 min Scan# 3285
 Delta R.T. -0.00 min
 Lab File: VU025336.D
 Acq: 12 Jul 2018 13:30

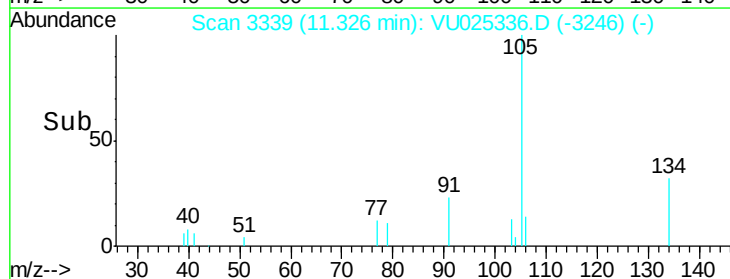
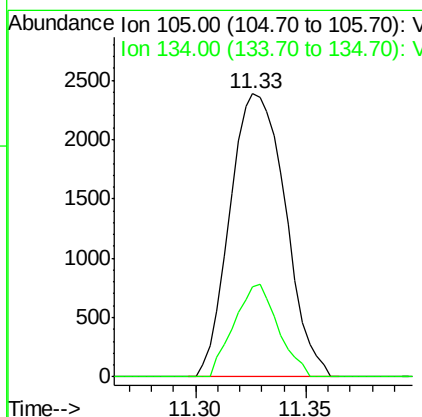
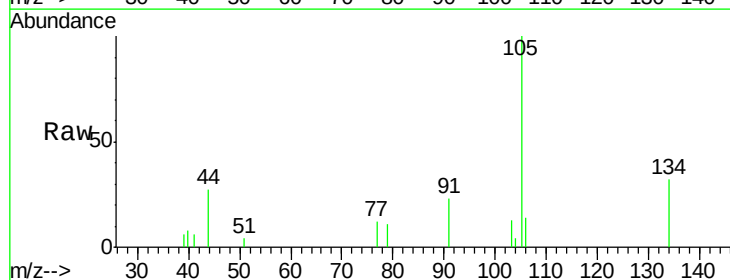
Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2018

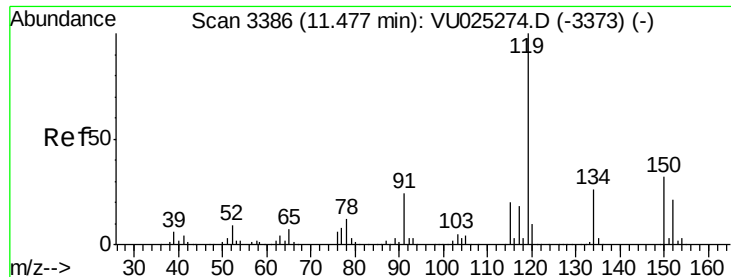
Tot Ion:105 Resp: 3811
 Ion Ratio Lower Upper
 105 100
 120 43.8 22.3 66.8



#85
 sec-Butylbenzene
 Concen: 0.50 ug/l
 RT: 11.33 min Scan# 3339
 Delta R.T. -0.00 min
 Lab File: VU025336.D
 Acq: 12 Jul 2018 13:30

Tgt Ion:105 Resp: 4167
 Ion Ratio Lower Upper
 105 100
 134 26.0 10.3 30.8





#86

p-Isopropyltoluene

Concen: 0.53 ug/l

RT: 11.48 min Scan# 3386

Delta R.T. -0.00 min

Lab File: VU025336.D

Acq: 12 Jul 2018 13:30

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

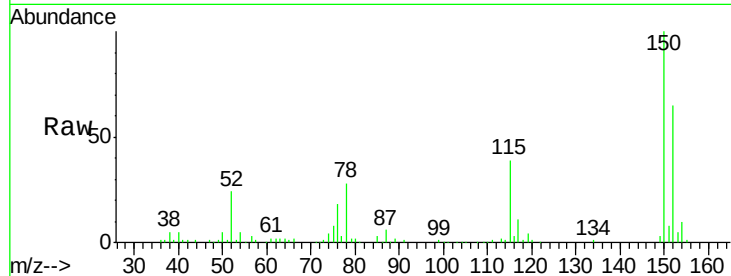
Tot Ion:119 Resp: 3888

Ion Ratio Lower Upper

119 100

134 22.9 13.2 39.5

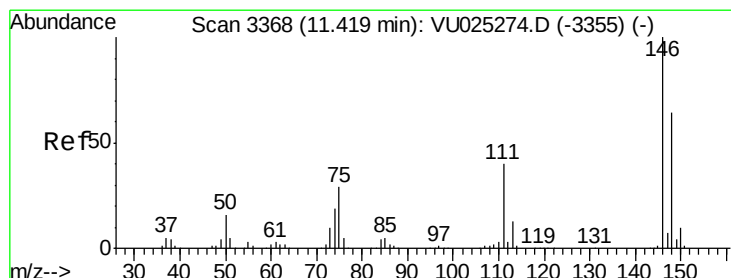
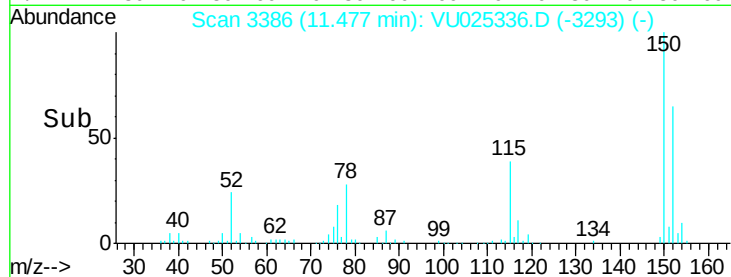
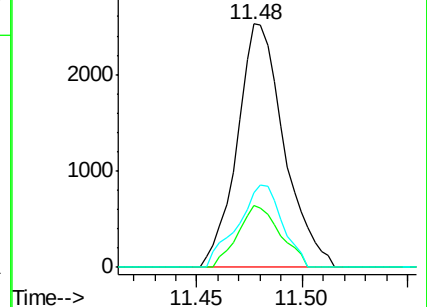
91 32.3 12.0 36.1



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VU0



#87

1,3-Dichlorobenzene

Concen: 0.55 ug/l

RT: 11.42 min Scan# 3369

Delta R.T. 0.00 min

Lab File: VU025336.D

Acq: 12 Jul 2018 13:30

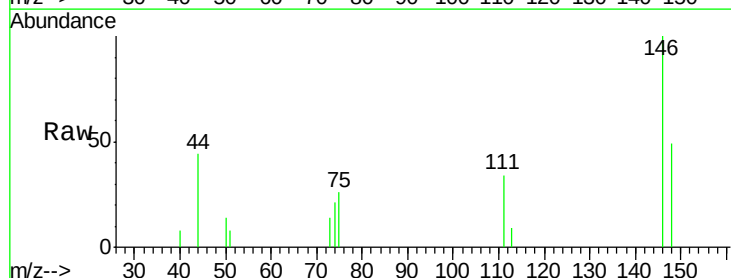
Tgt Ion:146 Resp: 2144

Ion Ratio Lower Upper

146 100

111 40.1 19.7 59.1

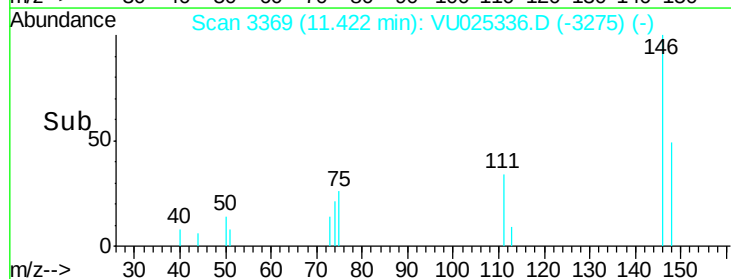
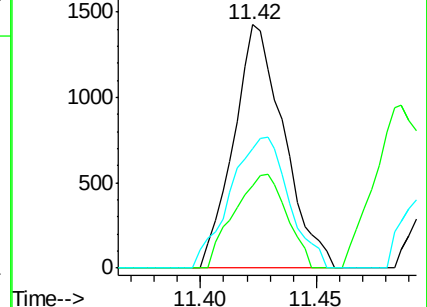
148 62.8 32.1 96.3

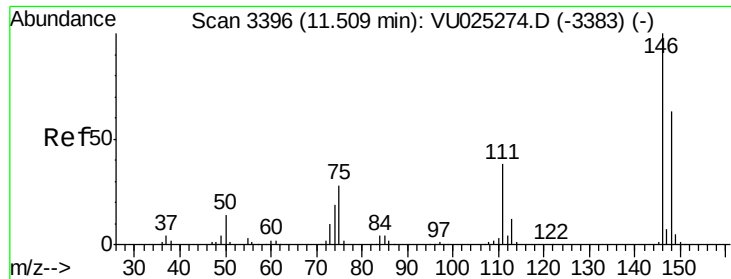


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

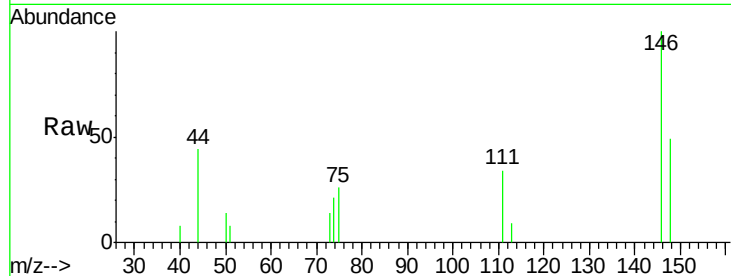




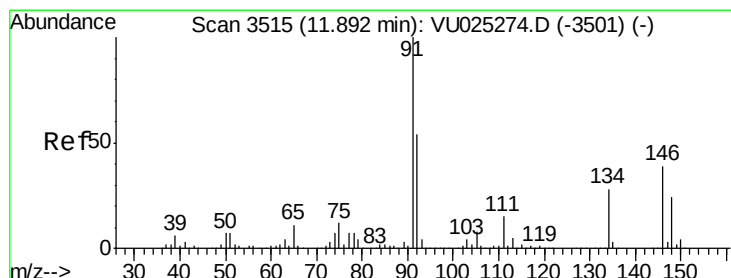
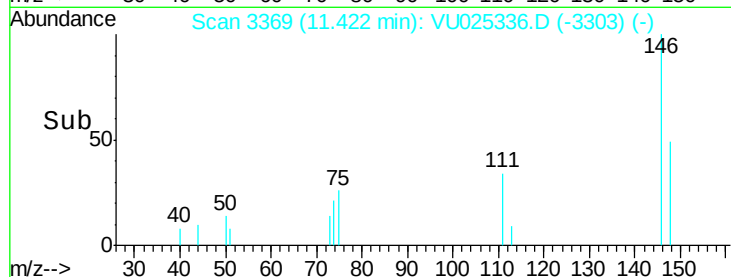
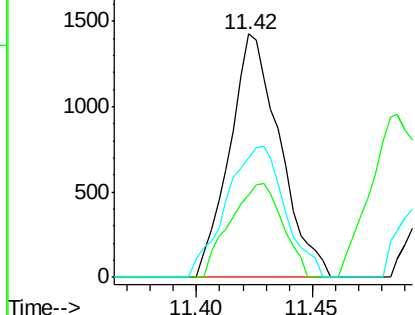
#88
 1,4-Dichlorobenzene
 Concen: 2.04 ug/l
 RT: 11.42 min Scan# 3369
 Delta R.T. -0.09 min
 Lab File: VU025336.D
 Acq: 12 Jul 2018 13:30

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2018

Tot Ion:146 Resp: 2144
 Ion Ratio Lower Upper
 146 100
 111 40.1 19.4 58.1
 148 62.8 31.7 95.1

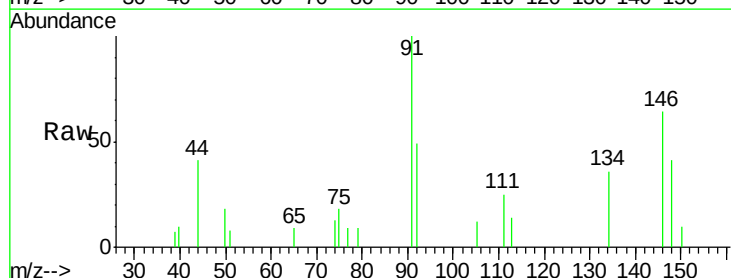


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

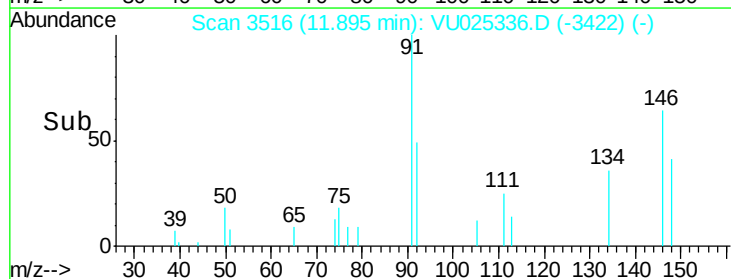
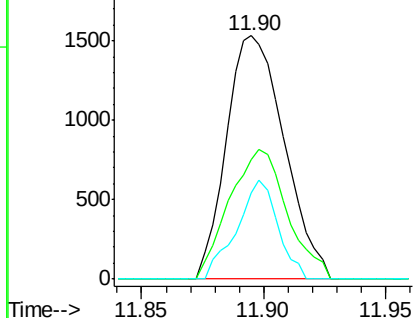


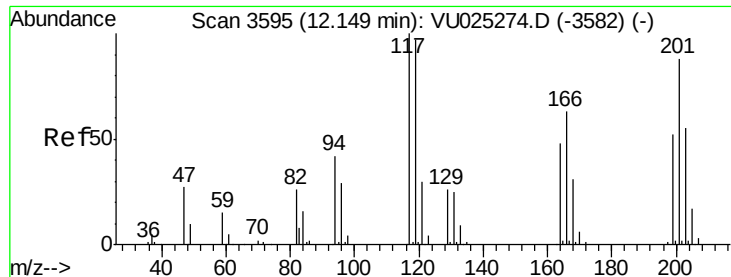
#89
 n-Butylbenzene
 Concen: 0.42 ug/l
 RT: 11.90 min Scan# 3516
 Delta R.T. 0.00 min
 Lab File: VU025336.D
 Acq: 12 Jul 2018 13:30

Tgt Ion: 91 Resp: 2522
 Ion Ratio Lower Upper
 91 100
 92 53.1 26.5 79.5
 134 28.8 13.6 40.7



Abundance Ion 91.00 (90.70 to 91.70): VU0
 Ion 92.00 (91.70 to 92.70): VU0
 Ion 134.00 (133.70 to 134.70): V

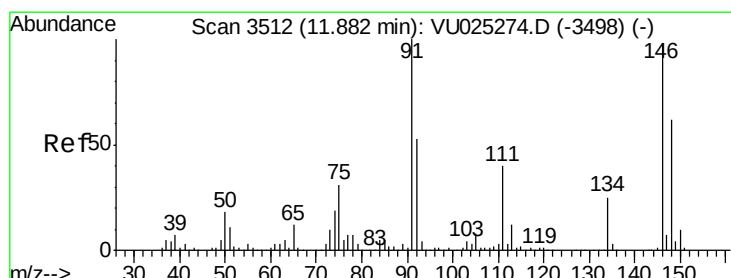
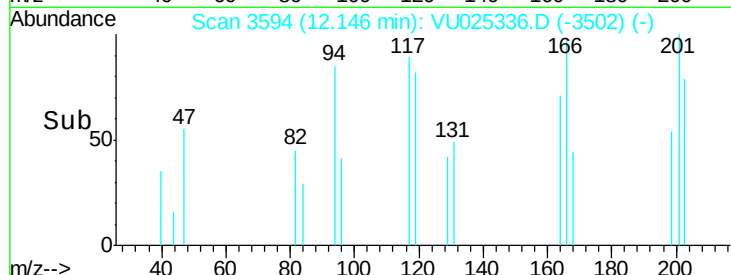
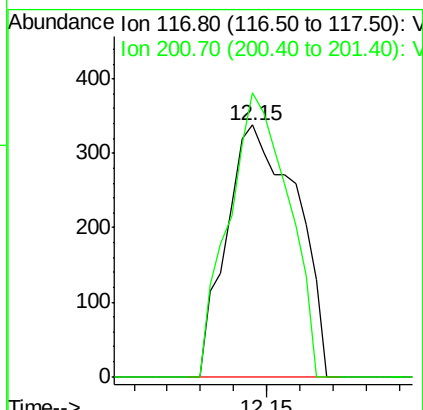
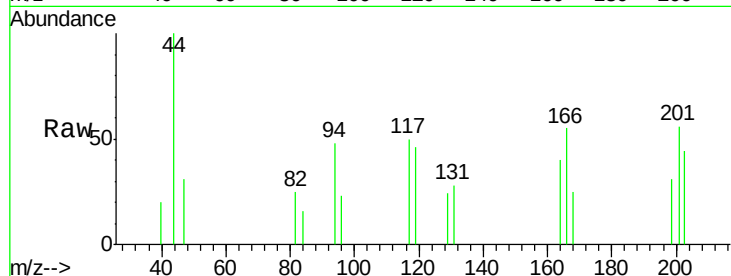




#90
Hexachloroethane
Concen: 0.40 ug/l
RT: 12.15 min Scan# 3594
Delta R.T. -0.00 min
Lab File: VU025336.D
Acq: 12 Jul 2018 13:30

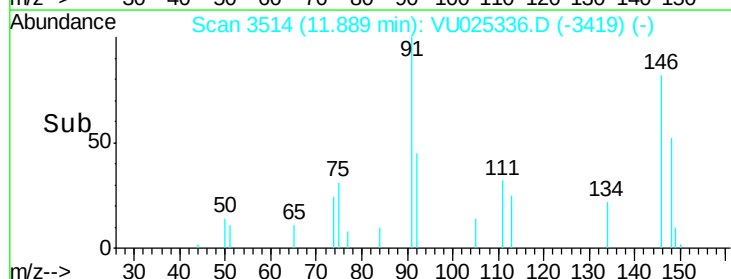
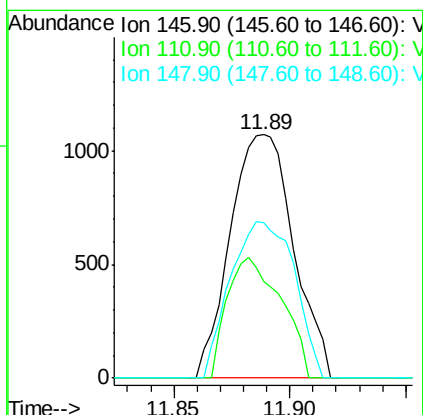
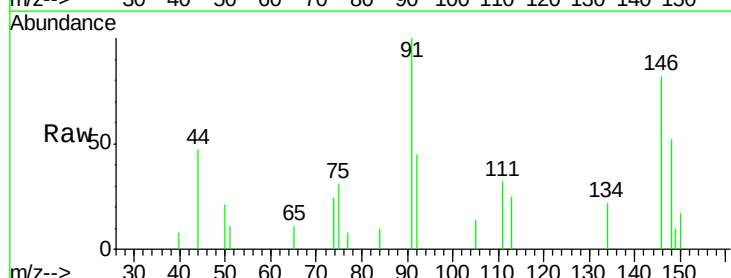
Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT3-2018

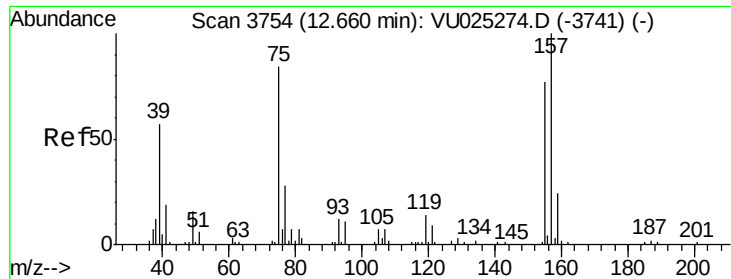
Tot Ion:117 Resp: 497
Ion Ratio Lower Upper
117 100
201 96.0 42.5 127.6



#91
1,2-Dichlorobenzene
Concen: 0.52 ug/l
RT: 11.89 min Scan# 3514
Delta R.T. 0.01 min
Lab File: VU025336.D
Acq: 12 Jul 2018 13:30

Tgt Ion:146 Resp: 2026
Ion Ratio Lower Upper
146 100
111 42.3 20.6 61.8
148 65.1 31.5 94.5





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.53 ug/l

RT: 12.66 min Scan# 3755

Delta R.T. 0.00 min

Lab File: VU025336.D

Acq: 12 Jul 2018 13:30

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

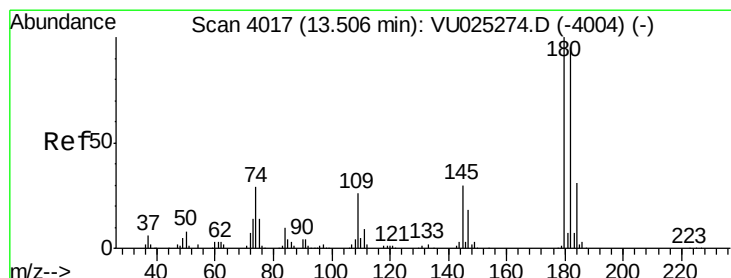
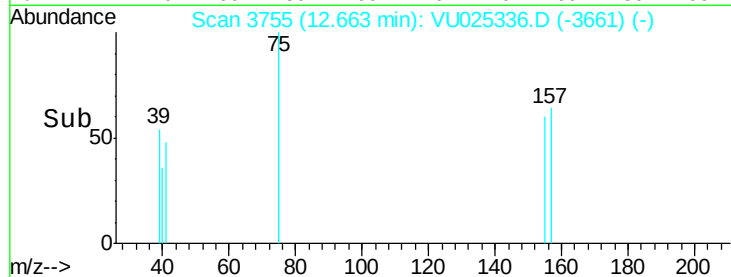
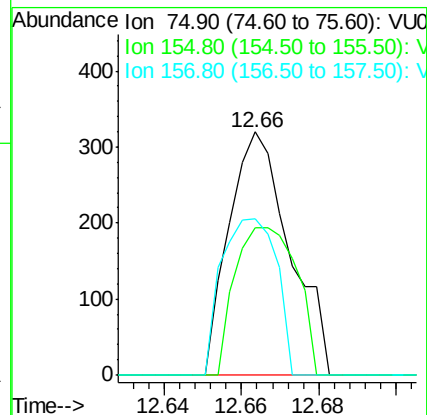
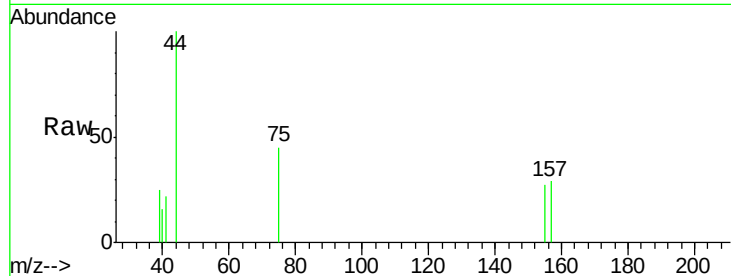
Tot Ion: 75 Resp: 348

Ion Ratio Lower Upper

75 100

155 61.5 44.5 133.3

157 58.3 57.0 170.8



#93

1,2,4-Trichlorobenzene

Concen: 3.60 ug/l

RT: 13.52 min Scan# 4021

Delta R.T. 0.01 min

Lab File: VU025336.D

Acq: 12 Jul 2018 13:30

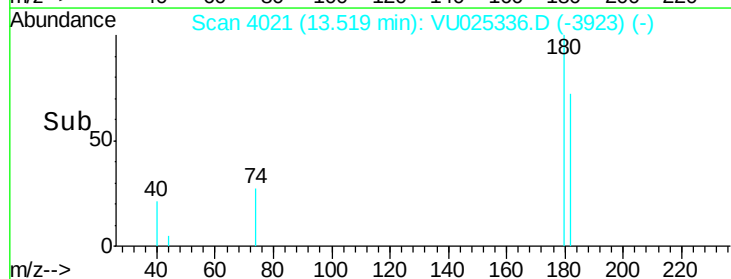
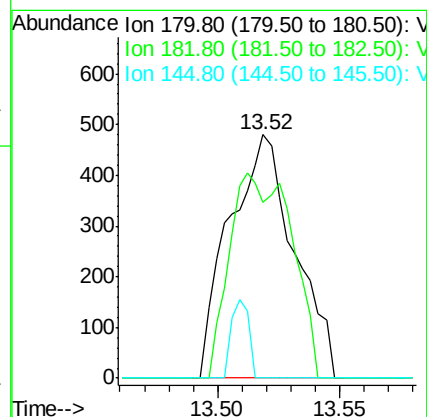
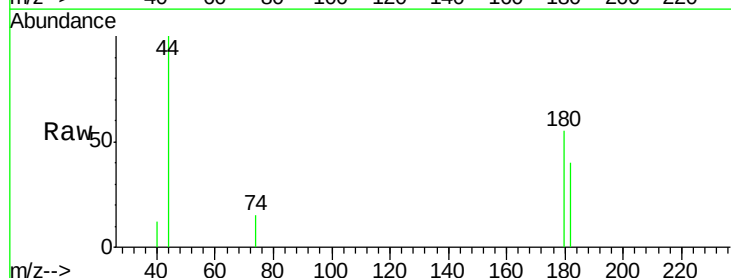
Tgt Ion: 180 Resp: 886

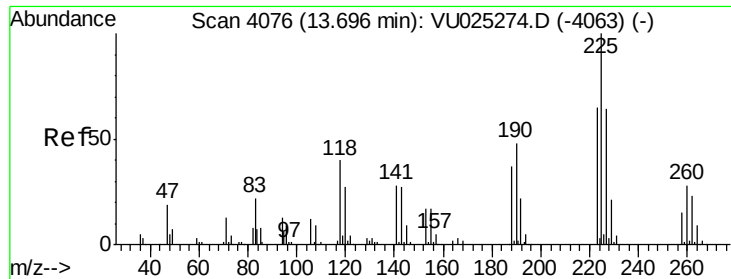
Ion Ratio Lower Upper

180 100

182 45.5 47.3 141.9#

145 8.9 14.9 44.7#





#94

Hexachlorobutadiene

Concen: 0.45 ug/l

RT: 13.70 min Scan# 4077

Delta R.T. 0.00 min

Lab File: VU025336.D

Acq: 12 Jul 2018 13:30

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

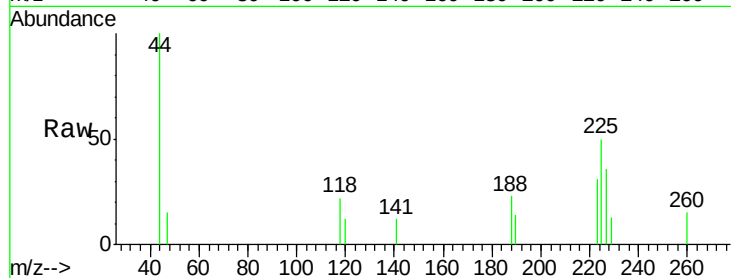
Tot Ion:225 Resp: 623

Ion Ratio Lower Upper

225 100

223 70.5 31.9 95.7

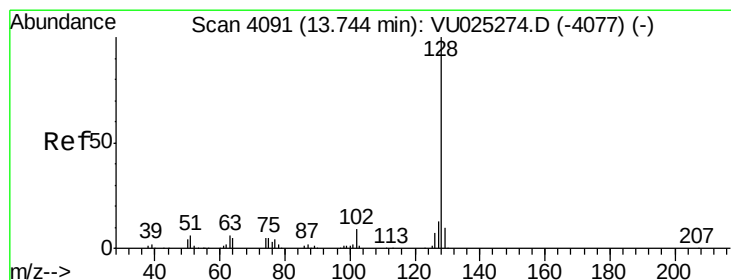
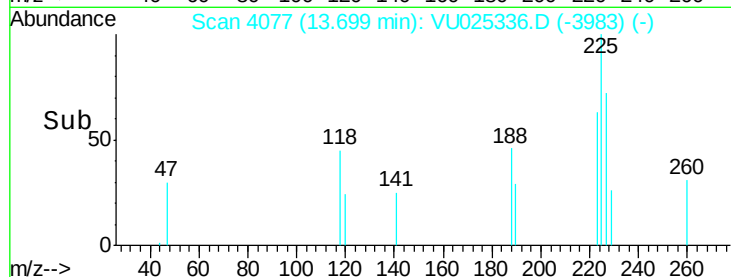
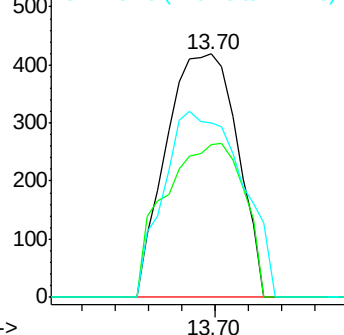
227 84.3 32.3 96.9



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 2.73 ug/l

RT: 13.76 min Scan# 4096

Delta R.T. 0.02 min

Lab File: VU025336.D

Acq: 12 Jul 2018 13:30

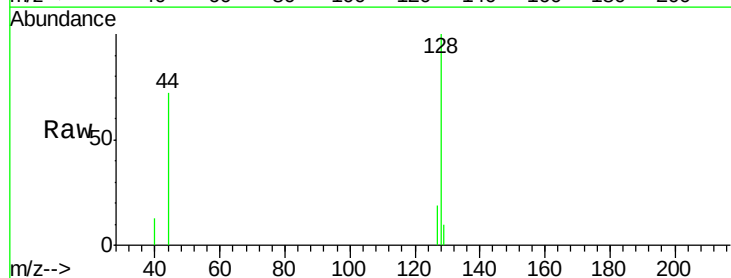
Tgt Ion:128 Resp: 2661

Ion Ratio Lower Upper

128 100

127 8.9 10.5 15.7#

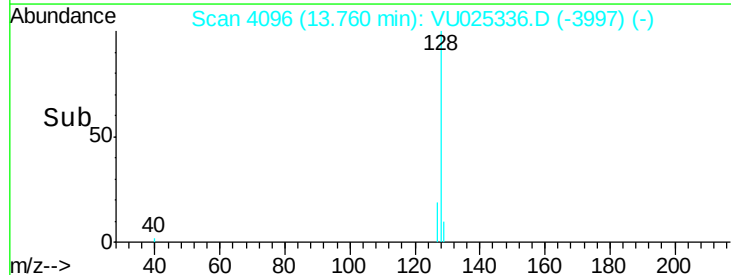
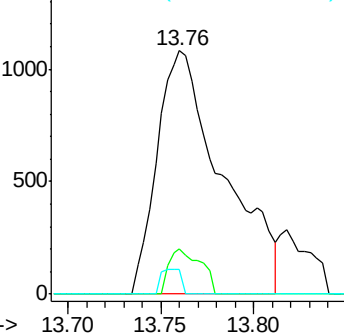
129 3.2 8.3 12.5#

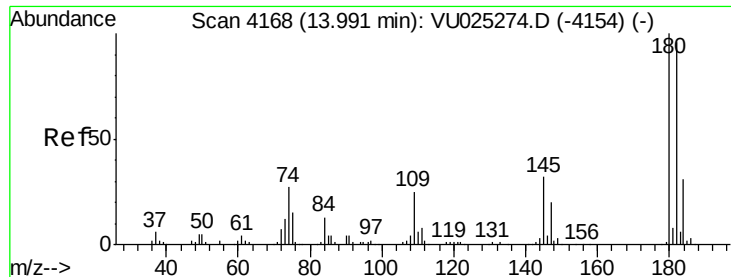


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96

1,2,3-Trichlorobenzene

Concen: 2.91 ug/l

RT: 13.99 min Scan# 4168

Delta R.T. 0.00 min

Lab File: VU025336.D

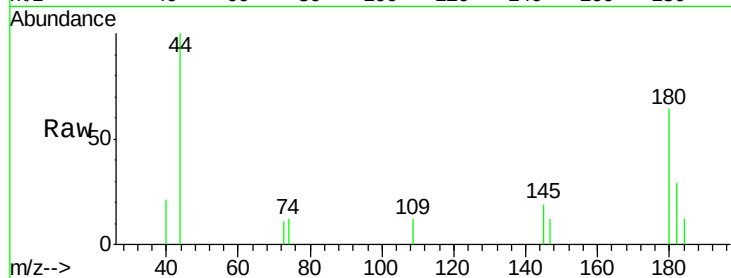
Acq: 12 Jul 2018 13:30

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT3-2018



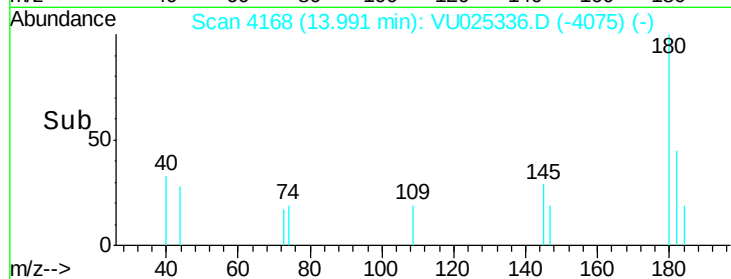
Tot Ion:180 Resp: 1070

Ion Ratio Lower Upper

180 100

182 0.0 47.8 143.3#

145 13.3 15.6 46.8#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

