

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092420\
 Data File : VU040269.D
 Acq On : 24 Sep 2020 13:27
 Operator : SY/MD
 Sample : L4485-09
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleID :
 MDL-WATER-02

Quant Time: Sep 25 09:55:50 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMULM092420WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Sep 25 09:34:00 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	416320	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	403591	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.81	152	191193	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	152600	44.08	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	88.16%
7) Chloroethane-d5	1.92	69	115632	44.54	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	89.08%
11) 1,1-Dichloroethene-d2	2.58	63	232105	34.50	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	69.00%
21) 2-Butanone-d5	4.65	46	314981	107.38	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	107.38%
24) Chloroform-d	5.08	84	270660	43.97	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.94%
26) 1,2-Dichloroethane-d4	5.72	65	197221	45.34	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.68%
32) Benzene-d6	5.75	84	532991	46.64	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.28%
36) 1,2-Dichloropropane-d6	6.70	67	179078	46.28	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	92.56%
41) Toluene-d8	7.91	98	466332	45.24	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	90.48%
43) trans-1,3-Dichloropropene-	8.19	79	87988	44.72	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	89.44%
47) 2-Hexanone-d5	8.64	63	183907	107.28	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	107.28%
56) 1,1,2,2-Tetrachloroethane-	10.75	84	254065	46.39	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	92.78%
66) 1,2-Dichlorobenzene-d4	12.19	152	184957	50.28	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.56%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.39	85	6379	2.152	ug/L	93
3) Chloromethane	1.53	50	8197	2.284	ug/L	97
5) Vinyl chloride	1.61	62	8083	2.257	ug/L #	67
6) Bromomethane	1.86	94	3721	2.011	ug/L	100
8) Chloroethane	1.94	64	5401	2.348	ug/L	95
9) Trichlorofluoromethane	2.15	101	9997	2.013	ug/L	90
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	8466	2.678	ug/L #	85
12) 1,1-Dichloroethene	2.59	96	7793	2.639	ug/L #	1
13) Acetone	2.65	43	14248	4.571	ug/L	99
14) Carbon disulfide	2.81	76	21391	2.277	ug/L	98
15) Methyl Acetate	2.97	43	10795	2.310	ug/L	97
16) Methylene chloride	3.06	84	8306	2.374	ug/L	95
17) trans-1,2-Dichloroethene	3.37	96	6528	2.137	ug/L	87
18) Methyl tert-butyl Ether	3.38	73	21599	2.149	ug/L	99
19) 1,1-Dichloroethane	3.89	63	12990m	2.029	ug/L	
20) cis-1,2-Dichloroethene	4.68	96	7204	2.155	ug/L	89
22) 2-Butanone	4.73	43	17216m	4.656	ug/L	

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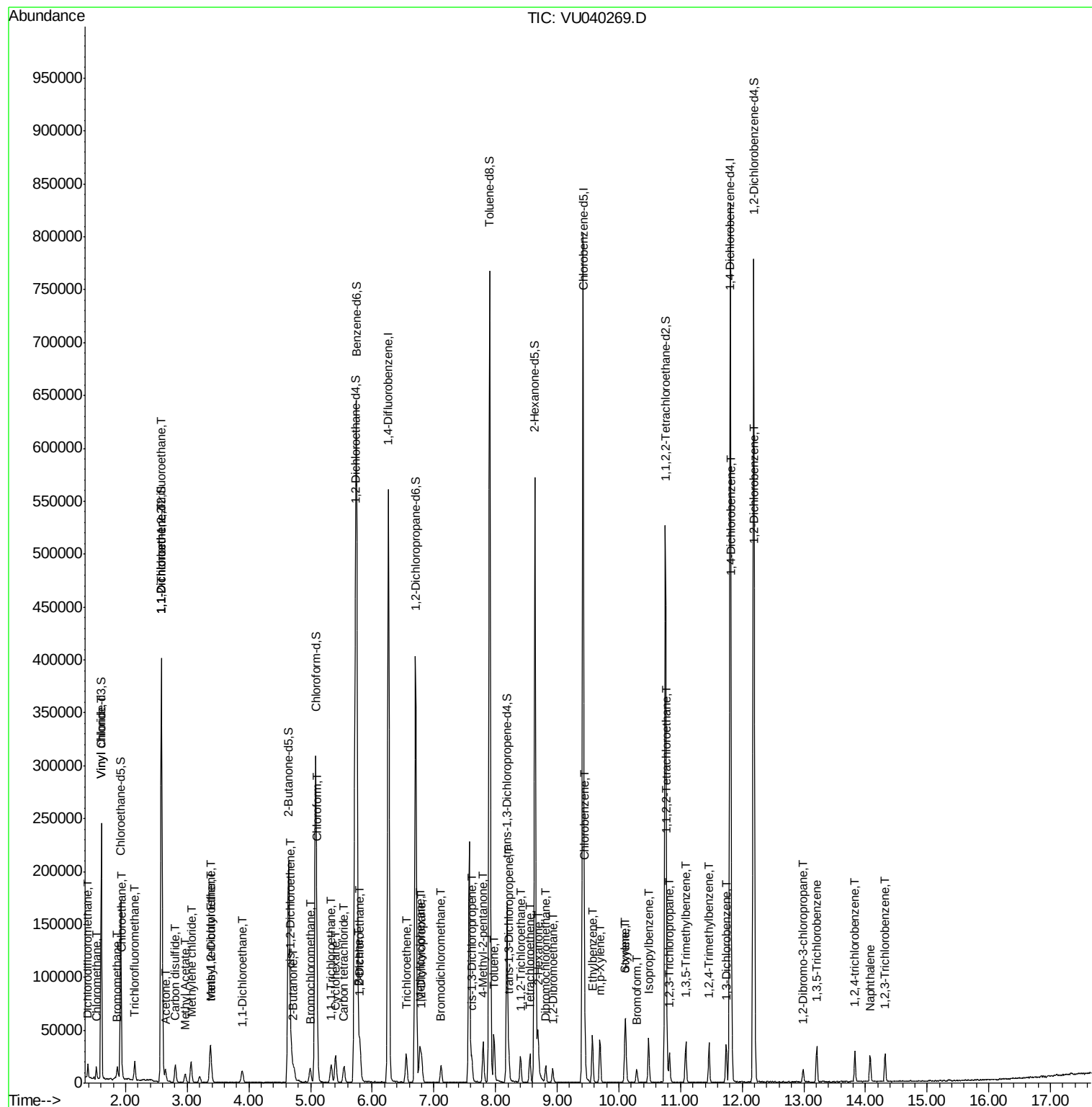
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.00	128	4073	2.324	ug/L	88
25) Chloroform	5.11	83	20920	3.234	ug/L	99
27) 1,2-Dichloroethane	5.81	62	12769	2.334	ug/L	97
29) Cyclohexane	5.40	56	10782	1.933	ug/L	95
30) 1,1,1-Trichloroethane	5.34	97	12054	2.279	ug/L #	82
31) Carbon tetrachloride	5.54	117	10201	2.231	ug/L	96
33) Benzene	5.79	78	30683	2.302	ug/L	100
34) Trichloroethene	6.56	95	7379	2.161	ug/L	97
35) Methylcyclohexane	6.77	83	10529	2.006	ug/L	96
37) 1,2-Dichloropropane	6.80	63	8065	2.151	ug/L #	96
38) Bromodichloromethane	7.11	83	10634	2.235	ug/L #	91
39) cis-1,3-Dichloropropene	7.62	75	11023	2.039	ug/L	99
40) 4-Methyl-2-pentanone	7.80	43	26234	4.308	ug/L	98
42) Toluene	7.97	91	28924	2.146	ug/L	98
44) trans-1,3-Dichloropropene	8.22	75	10870	1.989	ug/L	93
45) 1,1,2-Trichloroethane	8.40	97	7142	2.193	ug/L	97
46) Tetrachloroethene	8.56	164	5449	2.278	ug/L	90
48) 2-Hexanone	8.69	43	28145	5.771	ug/L	96
49) Dibromochloromethane	8.81	129	7580	2.123	ug/L	97
50) 1,2-Dibromoethane	8.93	107	7575	2.167	ug/L	93
51) Chlorobenzene	9.45	112	19729	2.219	ug/L	94
52) Ethylbenzene	9.57	91	29962	1.995	ug/L	100
53) m,p-Xylene	9.69	106	10571	1.937	ug/L	88
54) o-xylene	10.10	106	9494	1.781	ug/L	89
55) Styrene	10.11	104	16141	1.769	ug/L	98
57) 1,1,2,2-Tetrachloroethane	10.78	83	13300	2.322	ug/L #	95
59) Bromoform	10.29	173	4947	2.118	ug/L	99
60) 1,2,3-Trichloropropane	10.82	75	10845	2.396	ug/L	96
61) Isopropylbenzene	10.48	105	25112	1.896	ug/L	100
62) 1,3,5-Trimethylbenzene	11.09	105	20448	1.890	ug/L	99
63) 1,2,4-Trimethylbenzene	11.46	105	18658	1.702	ug/L	99
64) 1,3-Dichlorobenzene	11.74	146	13751	2.194	ug/L	93
65) 1,4-Dichlorobenzene	11.83	146	15784	2.424	ug/L	94
67) 1,2-Dichlorobenzene	12.21	146	15665	2.510	ug/L	96
68) 1,2-Dibromo-3-chloropropan	12.99	75	3379	2.648	ug/L #	83
69) 1,3,5-Trichlorobenzene	13.21	180	9450	2.314	ug/L	97
70) 1,2,4-trichlorobenzene	13.83	180	7783	2.207	ug/L	98
71) Naphthalene	14.08	128	19000	1.740	ug/L #	96
72) 1,2,3-Trichlorobenzene	14.32	180	7698	2.213	ug/L	97

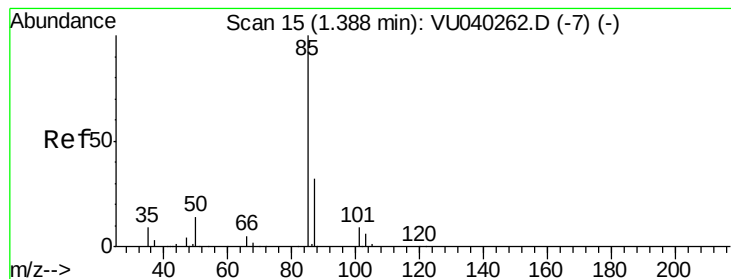
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 2.152 ug/L

RT: 1.39 min Scan# 15

Delta R.T. 0.00 min

Lab File: VU040269.D

Acq: 24 Sep 2020 13:27

Instrument :

MSVOA_U

ClientSampleId :

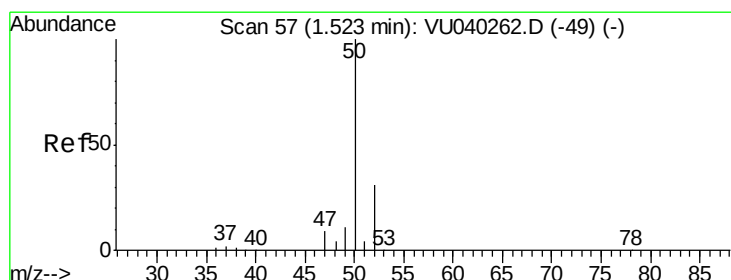
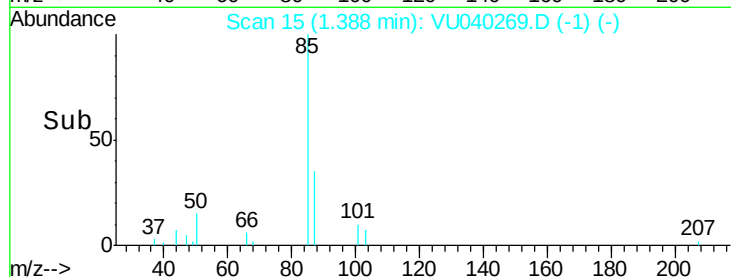
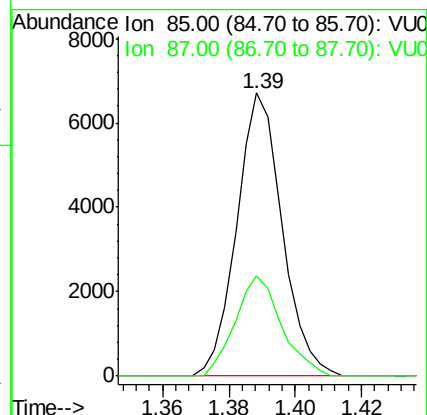
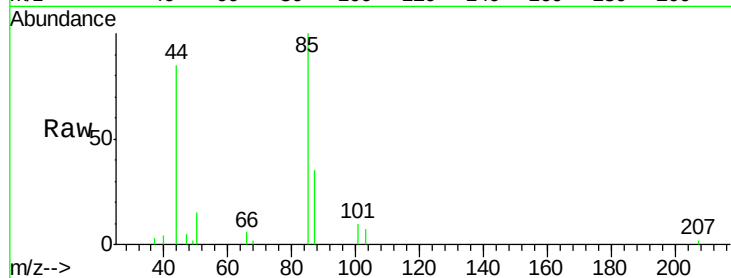
MDL-WATER-02

Tot Ion: 85 Resp: 6379

Ion Ratio Lower Upper

85 100

87 36.2 25.7 38.5



#3

Chloromethane

Concen: 2.284 ug/L

RT: 1.53 min Scan# 58

Delta R.T. 0.00 min

Lab File: VU040269.D

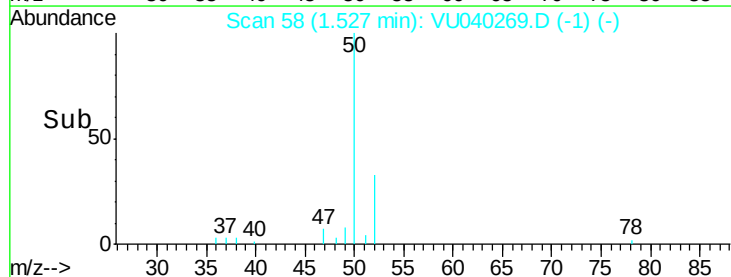
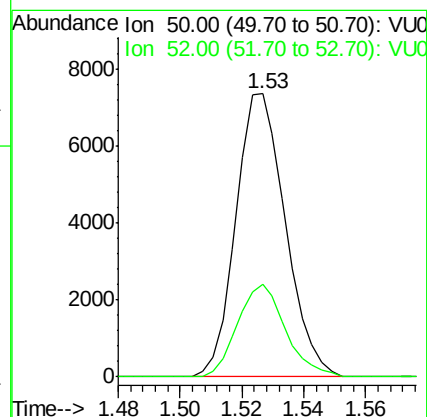
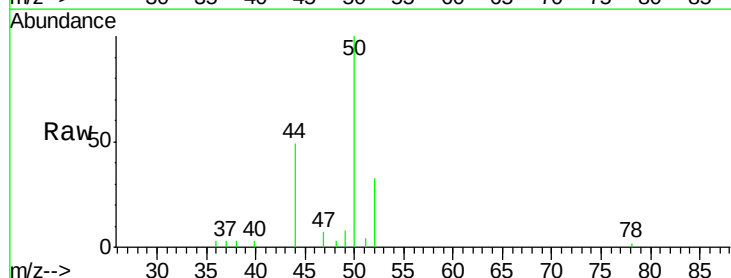
Acq: 24 Sep 2020 13:27

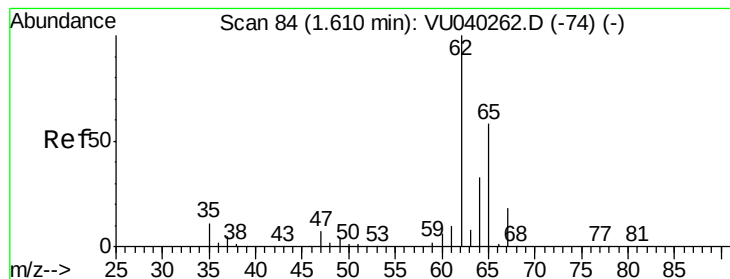
Tgt Ion: 50 Resp: 8197

Ion Ratio Lower Upper

50 100

52 32.8 21.8 40.6





#5

Vinyl chloride

Concen: 2.257 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU040269.D

Acq: 24 Sep 2020 13:27

Instrument :

MSVOA_U

ClientSampleId :

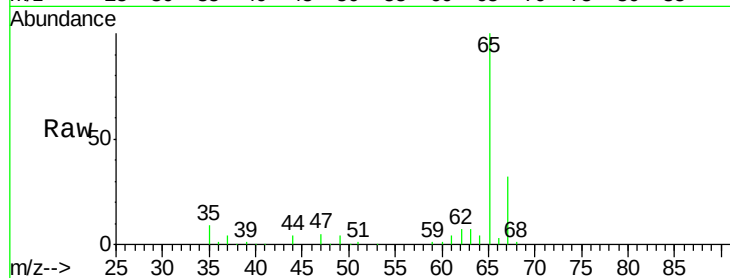
MDL-WATER-02

Tot Ion: 62 Resp: 8083

Ion Ratio Lower Upper

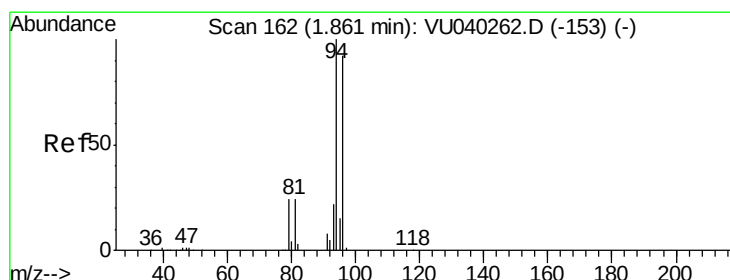
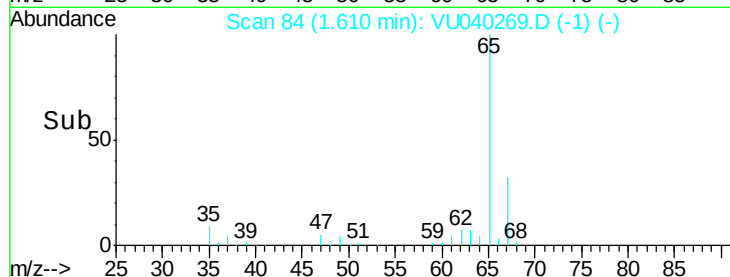
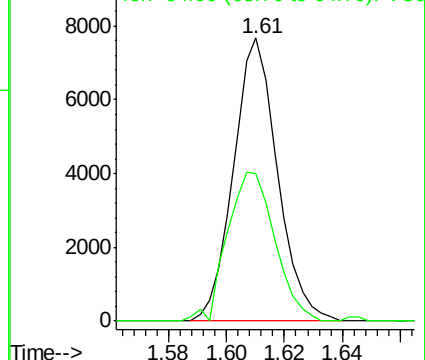
62 100

64 52.4 23.4 43.4#



Abundance Ion 62.00 (61.70 to 62.70): VU040269.D (-1) (-)

Ion 64.00 (63.70 to 64.70): VU040269.D (-1) (-)



#6

Bromomethane

Concen: 2.011 ug/L

RT: 1.86 min Scan# 163

Delta R.T. 0.00 min

Lab File: VU040269.D

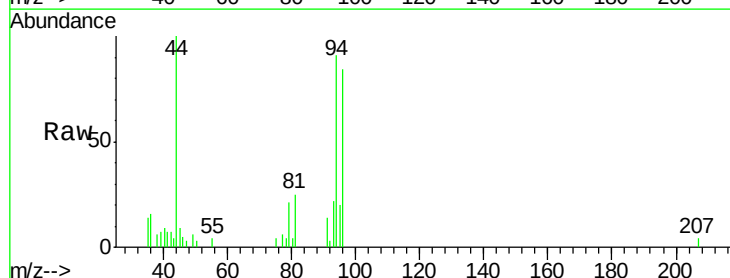
Acq: 24 Sep 2020 13:27

Tgt Ion: 94 Resp: 3721

Ion Ratio Lower Upper

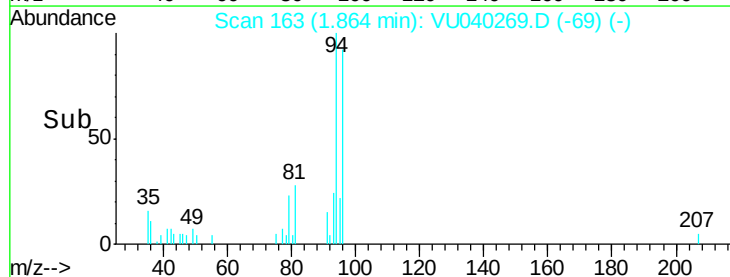
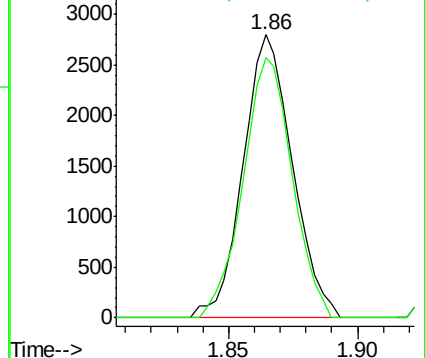
94 100

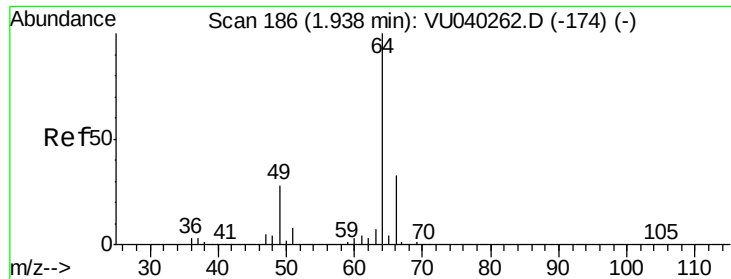
96 92.0 64.7 120.1



Abundance Ion 94.00 (93.70 to 94.70): VU040269.D (-69) (-)

Ion 96.00 (95.70 to 96.70): VU040269.D (-69) (-)





#8

Chloroethane

Concen: 2.348 ug/L

RT: 1.94 min Scan# 187

Delta R.T. 0.00 min

Lab File: VU040269.D

Acq: 24 Sep 2020 13:27

Instrument :

MSVOA_U

ClientSampleId :

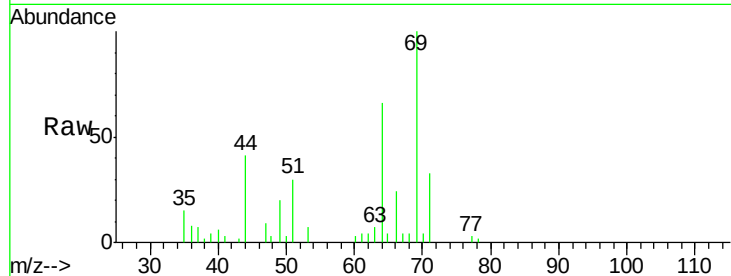
MDL-WATER-02

Tot Ion: 64 Resp: 5401

Ion Ratio Lower Upper

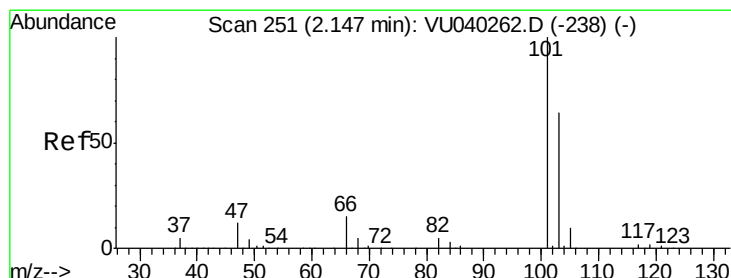
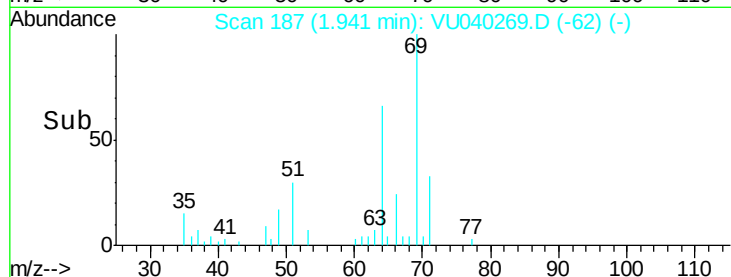
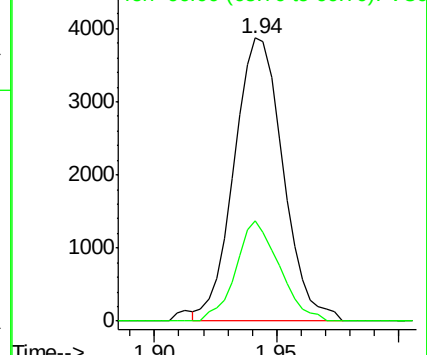
64 100

66 35.4 22.8 42.4



Abundance Ion 64.00 (63.70 to 64.70): VU040269.D (-62) (-)

Ion 66.00 (65.70 to 66.70): VU040269.D (-62) (-)



#9

Trichlorofluoromethane

Concen: 2.013 ug/L

RT: 2.15 min Scan# 251

Delta R.T. 0.00 min

Lab File: VU040269.D

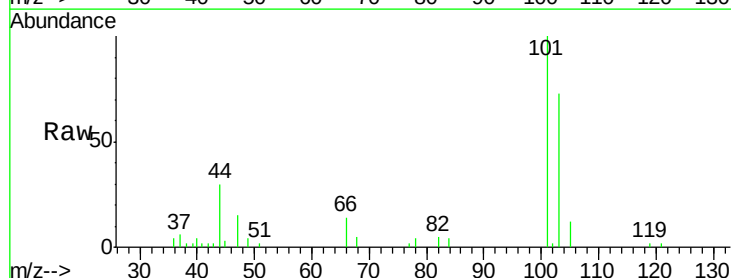
Acq: 24 Sep 2020 13:27

Tgt Ion: 101 Resp: 9997

Ion Ratio Lower Upper

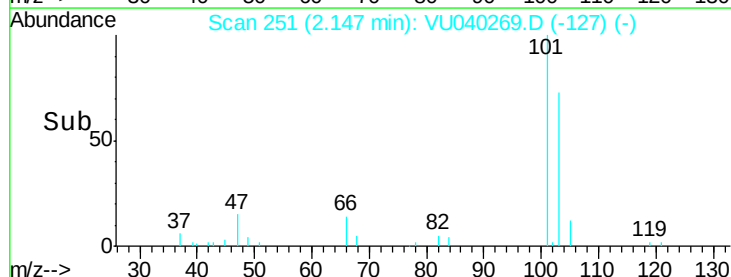
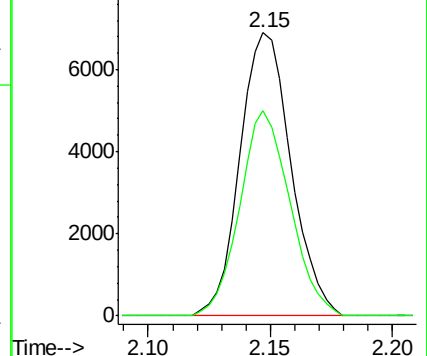
101 100

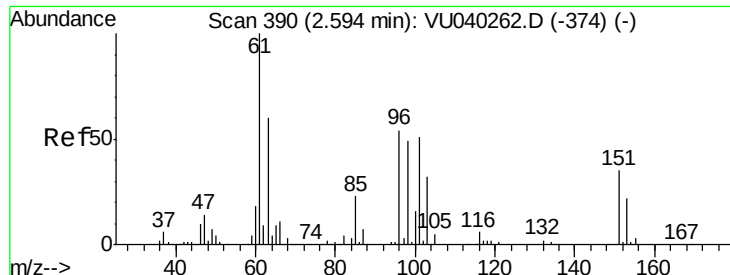
103 71.2 50.9 76.3



Abundance Ion 101.00 (100.70 to 101.70): VU040269.D (-127) (-)

Ion 103.00 (102.70 to 103.70): VU040269.D (-127) (-)





#10

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

Concen: 2.678 ug/L

RT: 2.59 min Scan# 389

Delta R.T. -0.00 min

Lab File: VU040269.D

Acq: 24 Sep 2020 13:27

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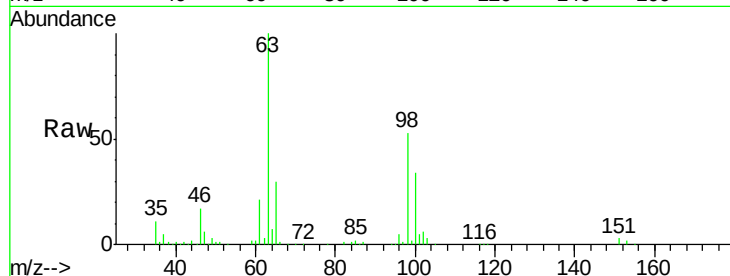
Tot Ion:101 Resp: 8466

Ion Ratio Lower Upper

101 100

85 35.6 36.0 54.0#

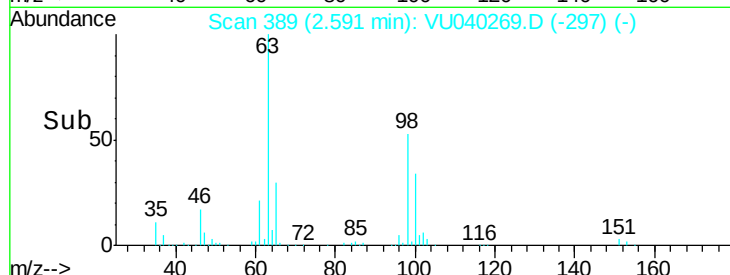
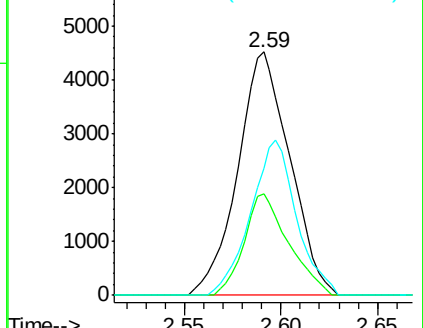
151 56.0 54.5 81.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 2.639 ug/L

RT: 2.59 min Scan# 389

Delta R.T. 0.00 min

Lab File: VU040269.D

Acq: 24 Sep 2020 13:27

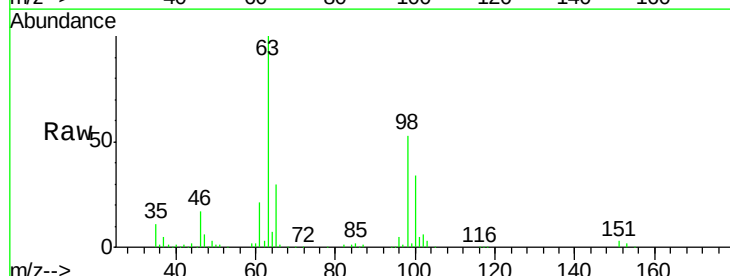
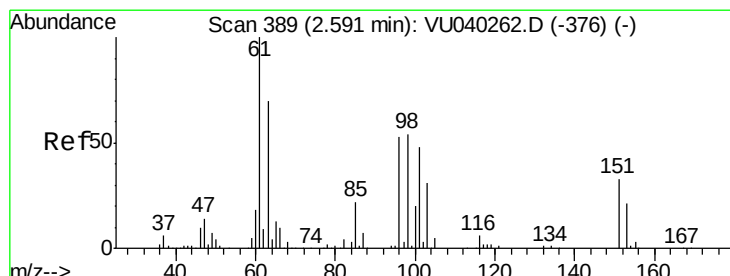
Tgt Ion: 96 Resp: 7793

Ion Ratio Lower Upper

96 100

61 400.5 131.8 244.8#

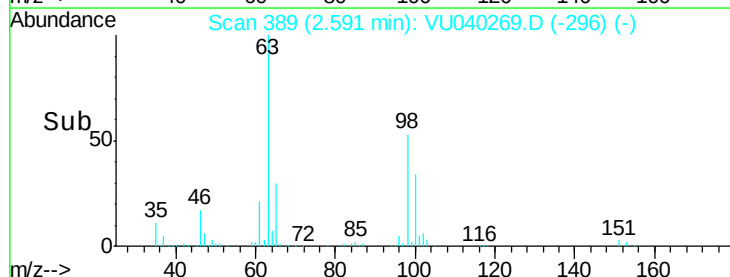
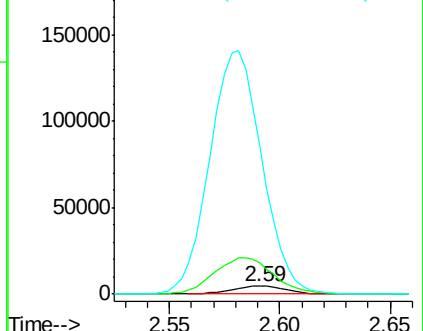
63 1890.4 94.1 174.7#

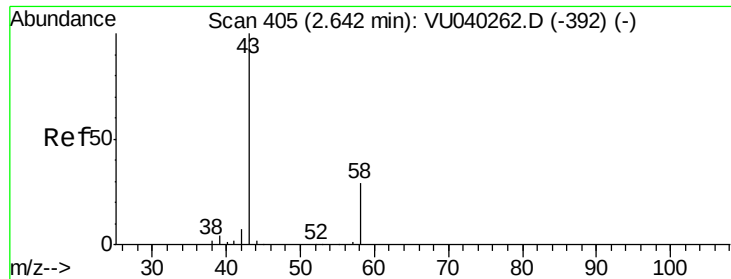


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 4.571 ug/L

RT: 2.65 min Scan# 406

Delta R.T. 0.00 min

Lab File: VU040269.D

Acq: 24 Sep 2020 13:27

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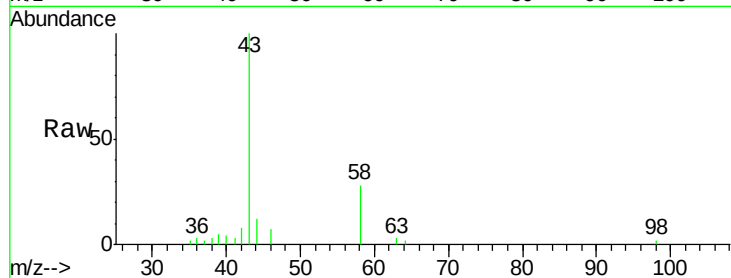
MDL-WATER-02

Tot Ion: 43 Resp: 14248

Ion Ratio Lower Upper

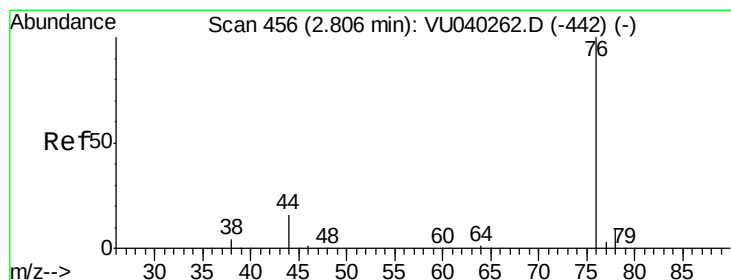
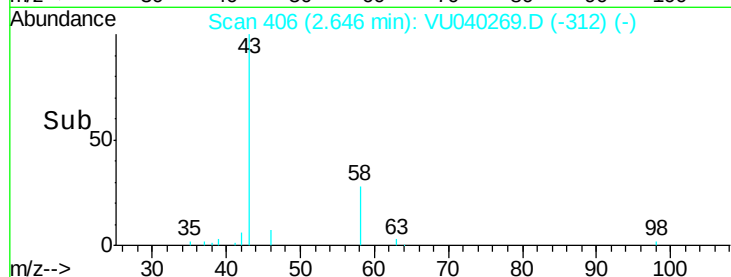
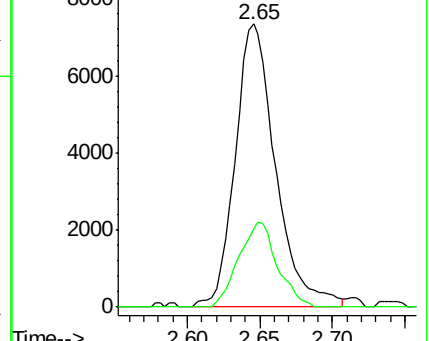
43 100

58 28.6 0.0 58.2



Abundance Ion 43.00 (42.70 to 43.70): VU040269.D (-312) (-)

Ion 58.00 (57.70 to 58.70): VU040269.D (-312) (-)



#14

Carbon disulfide

Concen: 2.277 ug/L

RT: 2.81 min Scan# 456

Delta R.T. 0.00 min

Lab File: VU040269.D

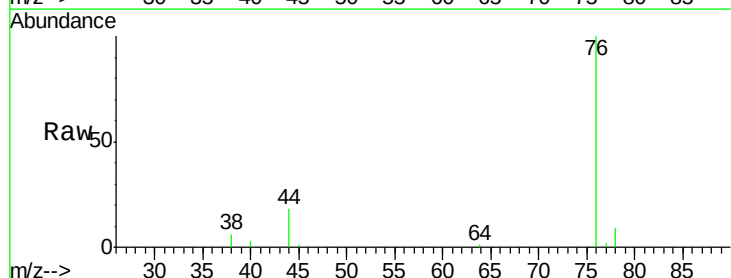
Acq: 24 Sep 2020 13:27

Tgt Ion: 76 Resp: 21391

Ion Ratio Lower Upper

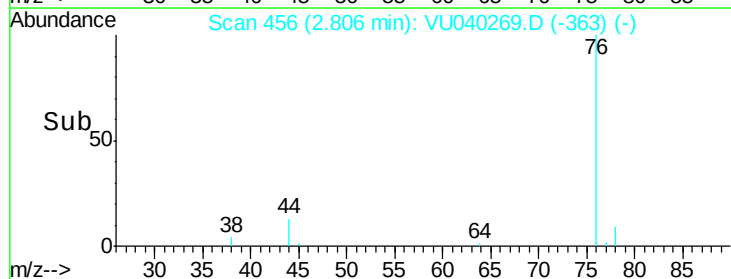
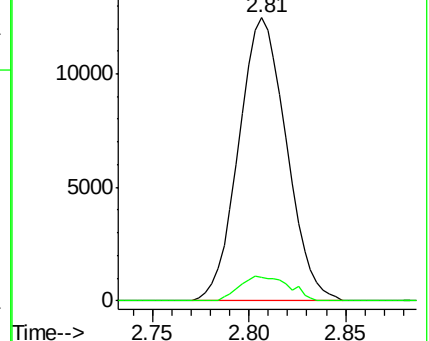
76 100

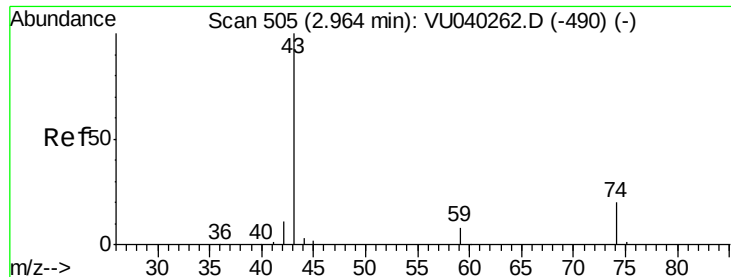
78 8.5 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VU040269.D (-363) (-)

Ion 78.00 (77.70 to 78.70): VU040269.D (-363) (-)





#15

Methvl Acetate

Concen: 2.310 ug/L

RT: 2.97 min Scan# 506

Delta R.T. 0.00 min

Lab File: VU040269.D

Acq: 24 Sep 2020 13:27

Instrument :

MSVOA_U

ClientSampleId :

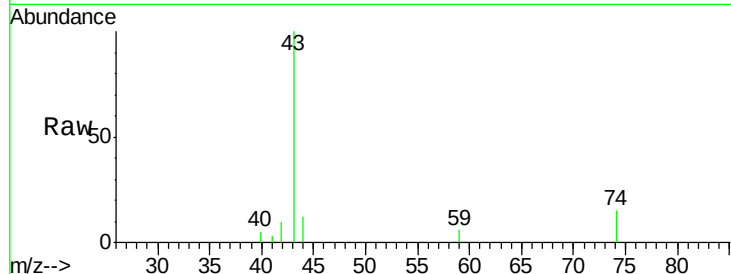
MDL-WATER-02

Tot Ion: 43 Resp: 10795

Ion Ratio Lower Upper

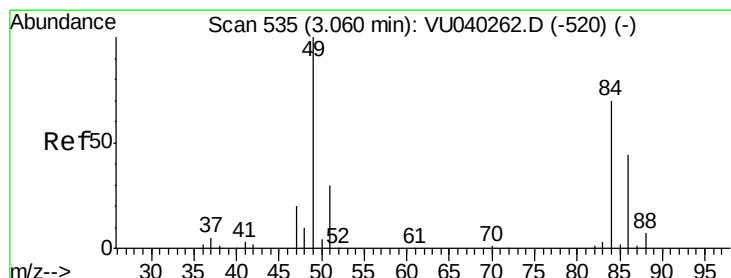
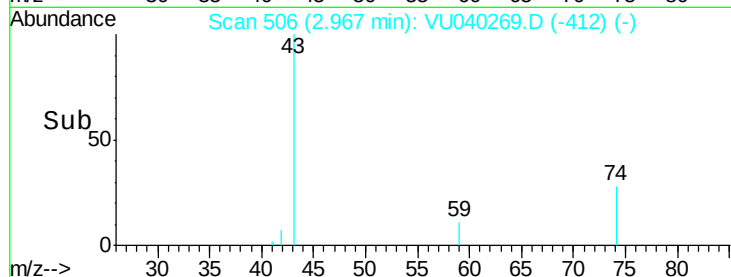
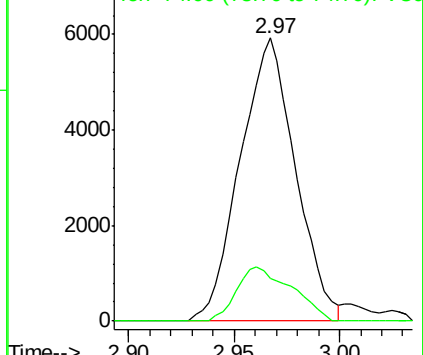
43 100

74 19.1 16.2 24.4



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0



#16

Methylene chloride

Concen: 2.374 ug/L

RT: 3.06 min Scan# 536

Delta R.T. 0.00 min

Lab File: VU040269.D

Acq: 24 Sep 2020 13:27

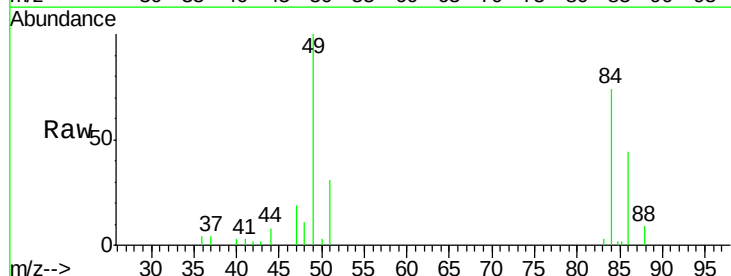
Tgt Ion: 84 Resp: 8306

Ion Ratio Lower Upper

84 100

86 60.0 43.9 81.5

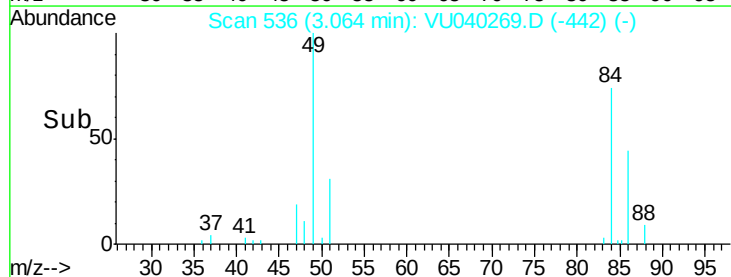
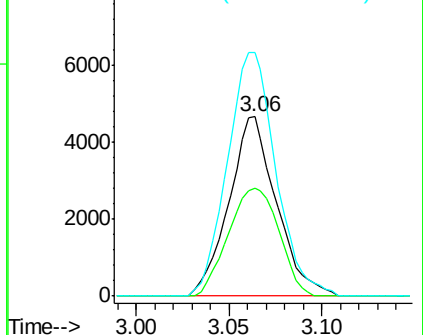
49 135.9 99.7 185.1

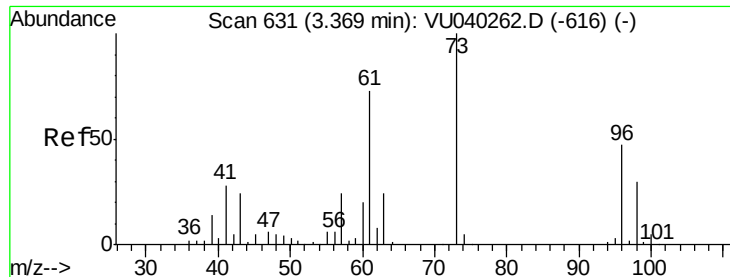


Abundance Ion 84.00 (83.70 to 84.70): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.00 (48.70 to 49.70): VU0





#17

trans-1,2-Dichloroethene

Concen: 2.137 ug/L

RT: 3.37 min Scan# 631

Delta R.T. 0.00 min

Lab File: VU040269.D

Acq: 24 Sep 2020 13:27

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-02

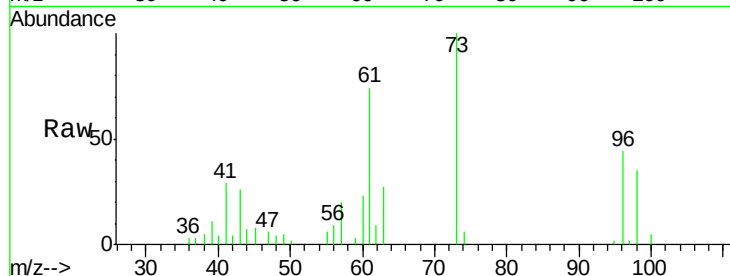
Tot Ion: 96 Resp: 6528

Ion Ratio Lower Upper

96 100

61 166.9 108.1 200.9

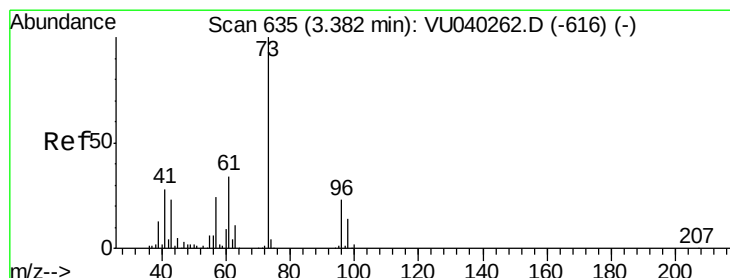
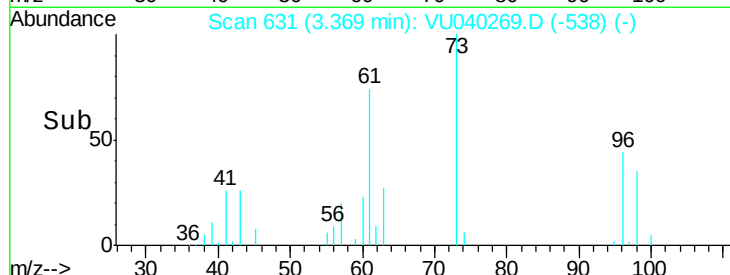
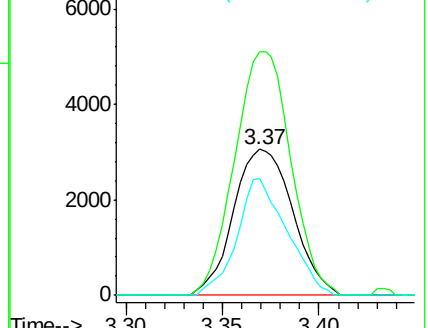
98 79.9 44.2 82.0



Abundance Ion 96.00 (95.70 to 96.70): VU040269.D (-538) (-)

Ion 61.00 (60.70 to 61.70): VU040269.D (-538) (-)

Ion 98.00 (97.70 to 98.70): VU040269.D (-538) (-)



#18

Methyl tert-butyl Ether

Concen: 2.149 ug/L

RT: 3.38 min Scan# 635

Delta R.T. 0.00 min

Lab File: VU040269.D

Acq: 24 Sep 2020 13:27

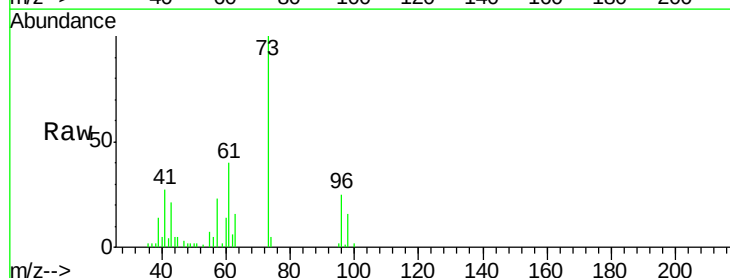
Tgt Ion: 73 Resp: 21599

Ion Ratio Lower Upper

73 100

43 22.9 18.5 27.7

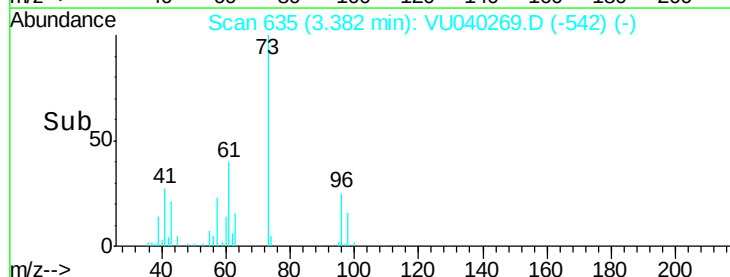
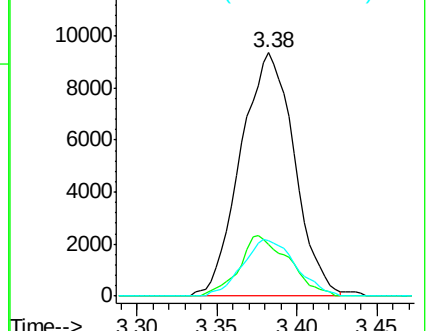
57 22.8 18.8 28.2

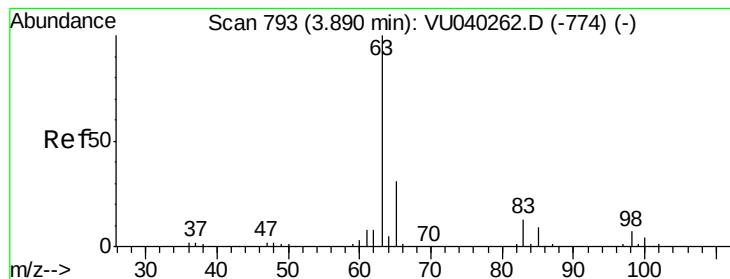


Abundance Ion 73.00 (72.70 to 73.70): VU040269.D (-542) (-)

Ion 43.00 (42.70 to 43.70): VU040269.D (-542) (-)

Ion 57.00 (56.70 to 57.70): VU040269.D (-542) (-)





#19

1,1-Dichloroethane

Concen: 2.029 ug/L m

RT: 3.89 min Scan# 794

Delta R.T. 0.00 min

Lab File: VU040269.D

Acq: 24 Sep 2020 13:27

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-02

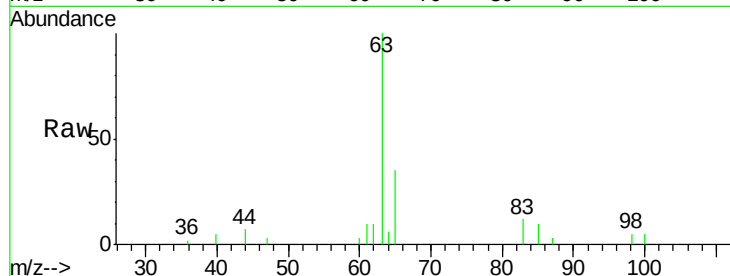
Tot Ion: 63 Resp: 12990

Ion Ratio Lower Upper

63 100

65 34.9 22.0 40.8

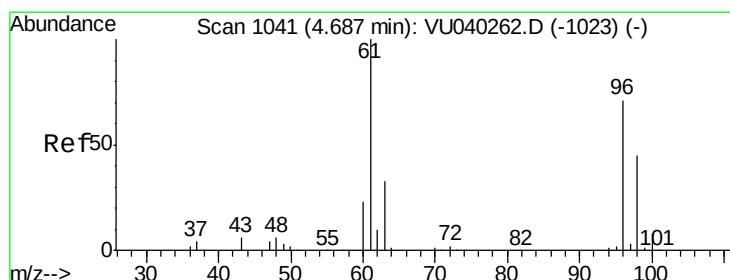
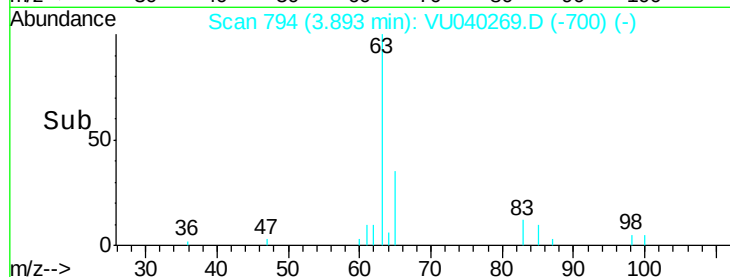
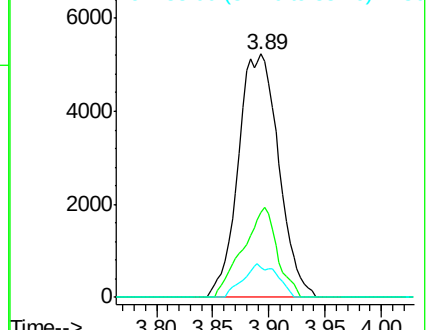
83 12.5 8.9 16.5



Abundance Ion 63.00 (62.70 to 63.70): VU040269.D (-700) (-)

Ion 65.00 (64.70 to 65.70): VU040269.D (-700) (-)

Ion 83.00 (82.70 to 83.70): VU040269.D (-700) (-)



#20

cis-1,2-Dichloroethene

Concen: 2.155 ug/L

RT: 4.68 min Scan# 1040

Delta R.T. -0.00 min

Lab File: VU040269.D

Acq: 24 Sep 2020 13:27

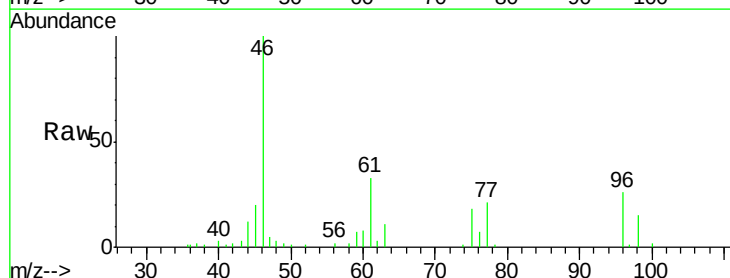
Tgt Ion: 96 Resp: 7204

Ion Ratio Lower Upper

96 100

61 127.5 98.6 183.0

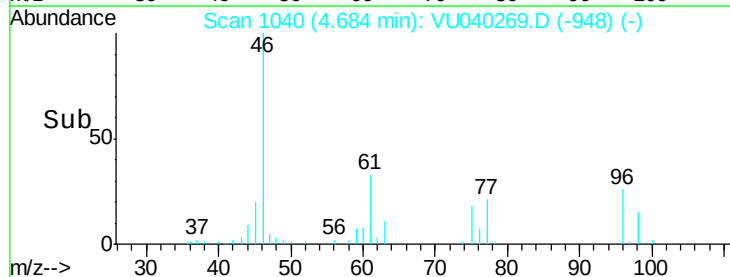
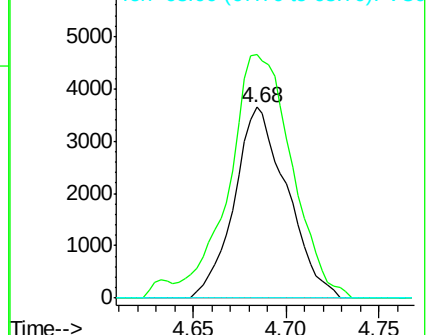
68 0.0 0.0 0.0

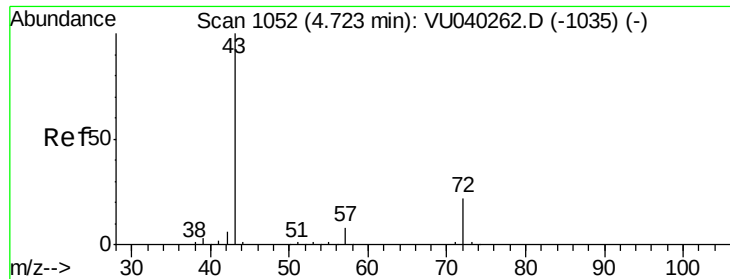


Abundance Ion 96.00 (95.70 to 96.70): VU040269.D (-948) (-)

Ion 61.00 (60.70 to 61.70): VU040269.D (-948) (-)

Ion 68.00 (67.70 to 68.70): VU040269.D (-948) (-)





#22

2-Butanone

Concen: 4.656 ug/L m

RT: 4.73 min Scan# 1053

Delta R.T. 0.00 min

Lab File: VU040269.D

Acq: 24 Sep 2020 13:27

Instrument :

MSVOA_U

ClientSampleId :

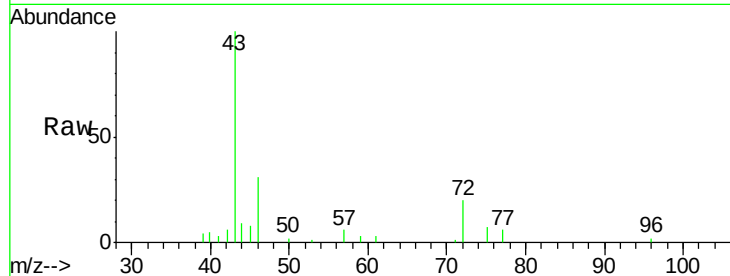
MDL-WATER-02

Tot Ion: 43 Resp: 17216

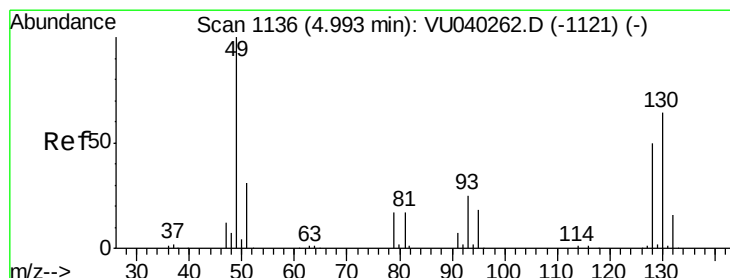
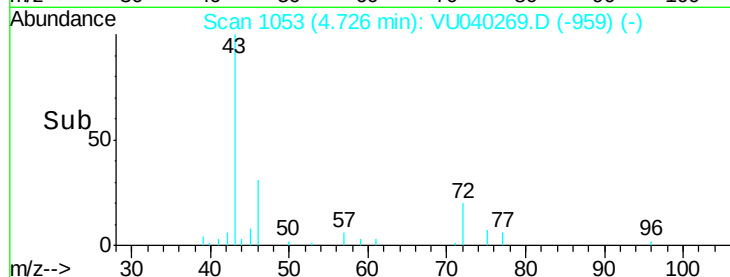
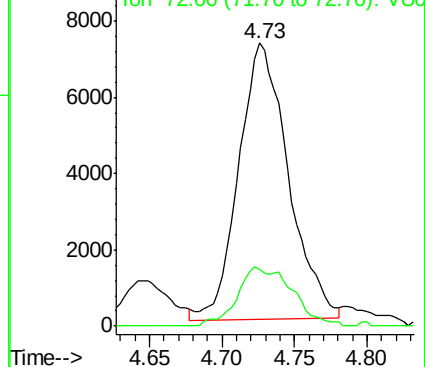
Ion Ratio Lower Upper

43 100

72 0.2 11.5 34.4#



Abundance Ion 43.00 (42.70 to 43.70): VU040269.D (-959) (-)



#23

Bromochloromethane

Concen: 2.324 ug/L

RT: 5.00 min Scan# 1137

Delta R.T. 0.00 min

Lab File: VU040269.D

Acq: 24 Sep 2020 13:27

Tgt Ion: 128 Resp: 4073

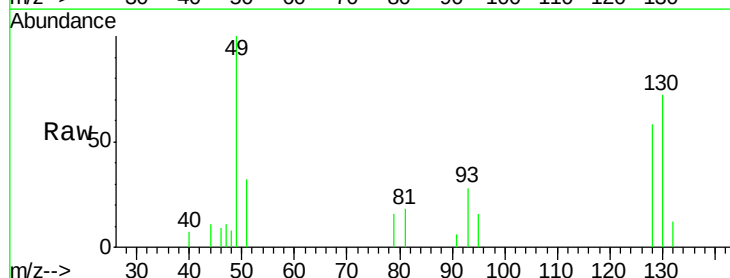
Ion Ratio Lower Upper

128 100

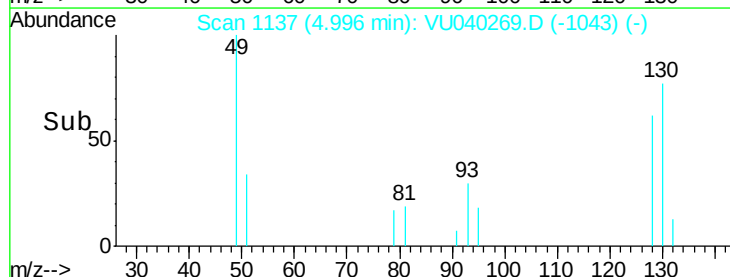
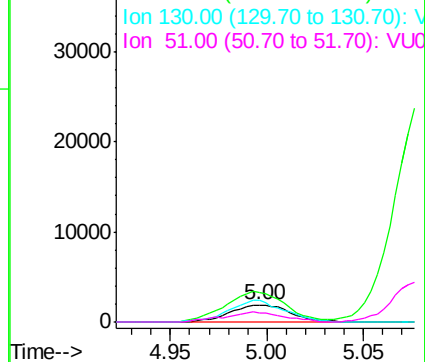
49 173.8 140.8 261.4

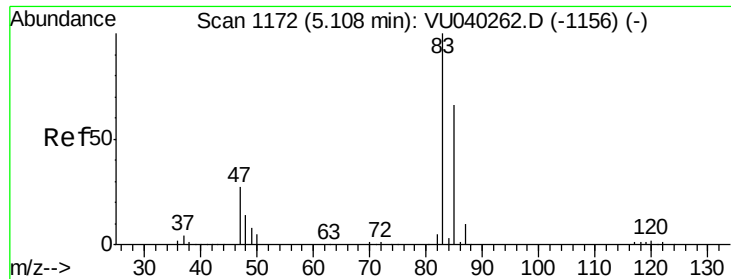
130 124.3 89.2 165.6

51 55.4 50.2 75.4



Abundance Ion 128.00 (127.70 to 128.70): VU040269.D (-1043) (-)

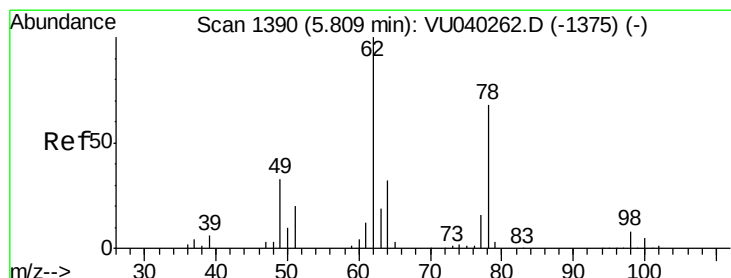
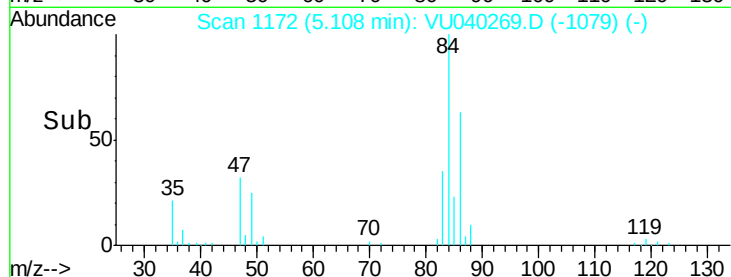
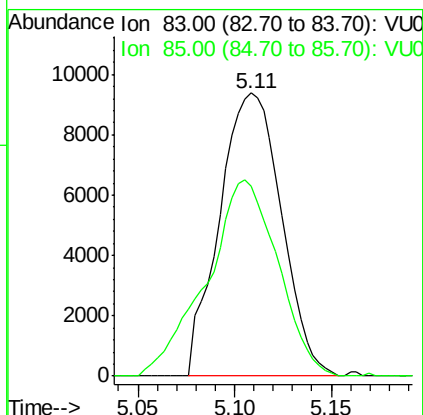
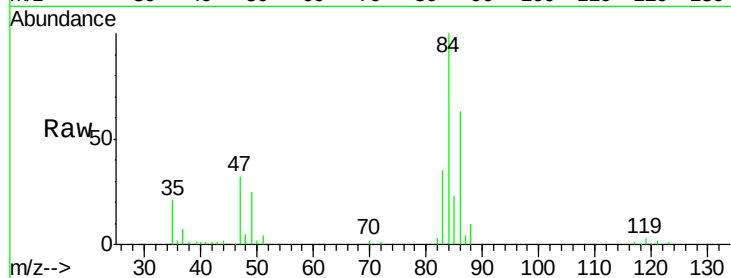




#25
Chloroform
Concen: 3.234 ug/L
RT: 5.11 min Scan# 1172
Delta R.T. 0.00 min
Lab File: VU040269.D
Acq: 24 Sep 2020 13:27

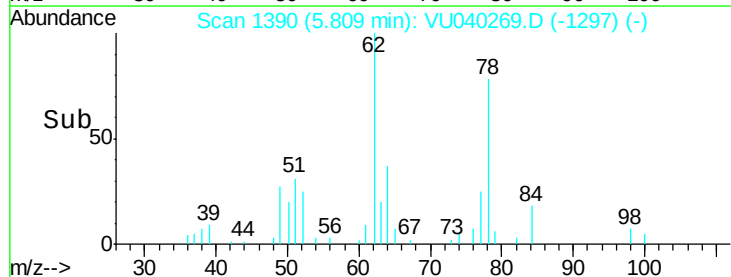
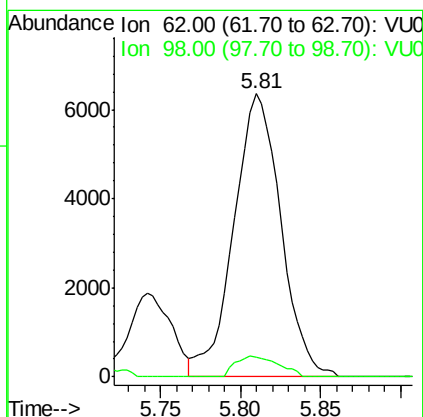
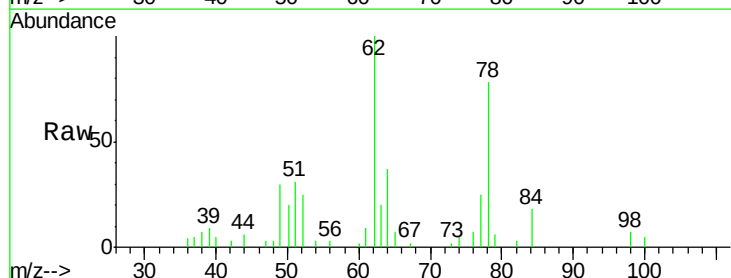
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-02

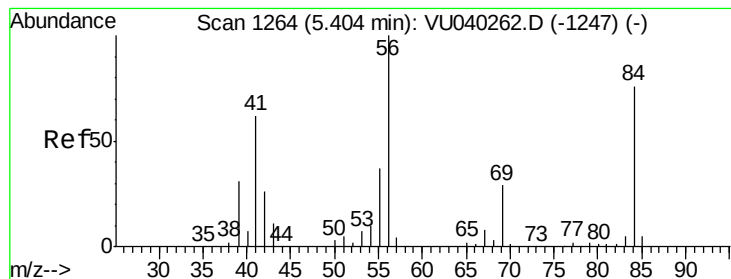
Tot Ion: 83 Resp: 20920
Ion Ratio Lower Upper
83 100
85 67.0 46.4 86.2



#27
1,2-Dichloroethane
Concen: 2.334 ug/L
RT: 5.81 min Scan# 1390
Delta R.T. 0.00 min
Lab File: VU040269.D
Acq: 24 Sep 2020 13:27

Tgt Ion: 62 Resp: 12769
Ion Ratio Lower Upper
62 100
98 7.2 6.5 9.7





#29

Cyclohexane

Concen: 1.933 ug/L

RT: 5.40 min Scan# 1264

Delta R.T. 0.00 min

Lab File: VU040269.D

Acq: 24 Sep 2020 13:27

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-02

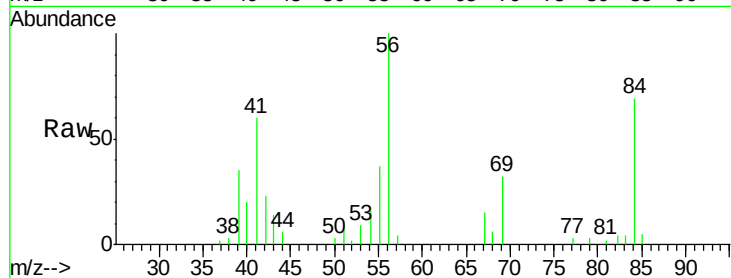
Tot Ion: 56 Resp: 10782

Ion Ratio Lower Upper

56 100

69 30.3 22.6 33.8

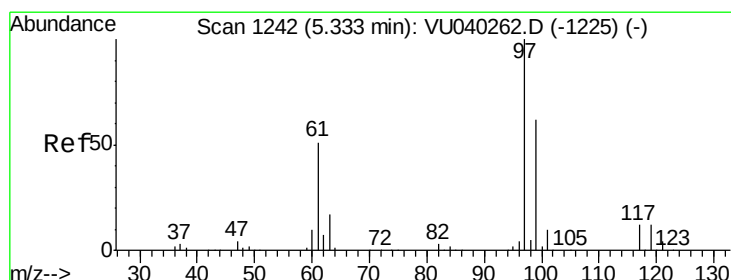
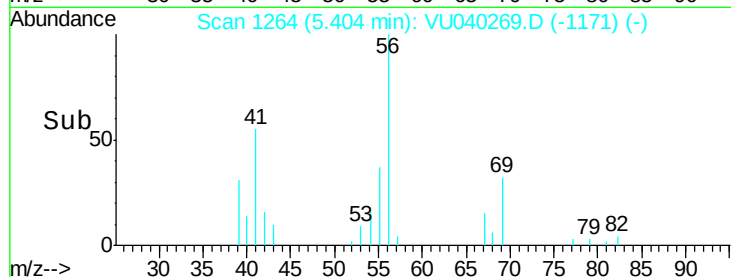
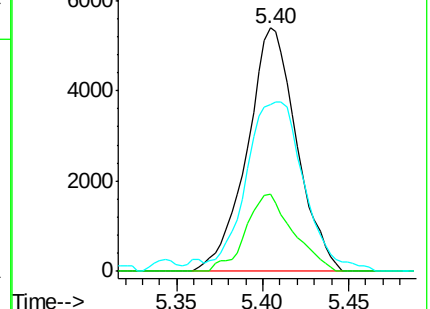
84 81.6 61.9 92.9



Abundance Ion 56.00 (55.70 to 56.70): VU040269.D (-1171) (-)

Ion 69.00 (68.70 to 69.70): VU040269.D (-1171) (-)

Ion 84.00 (83.70 to 84.70): VU040269.D (-1171) (-)



#30

1,1,1-Trichloroethane

Concen: 2.279 ug/L

RT: 5.34 min Scan# 1243

Delta R.T. 0.00 min

Lab File: VU040269.D

Acq: 24 Sep 2020 13:27

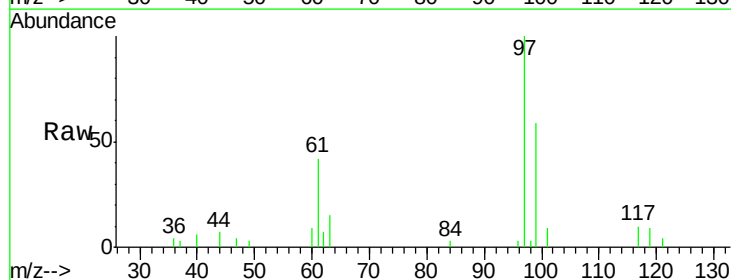
Tgt Ion: 97 Resp: 12054

Ion Ratio Lower Upper

97 100

99 61.8 50.8 76.2

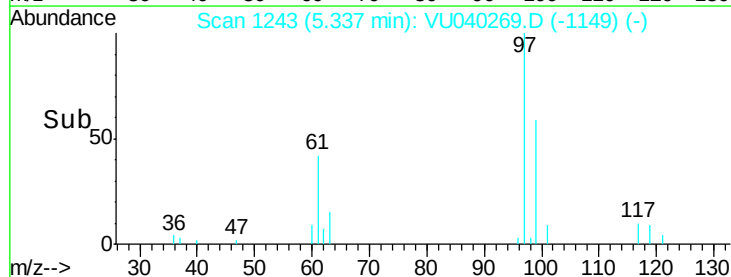
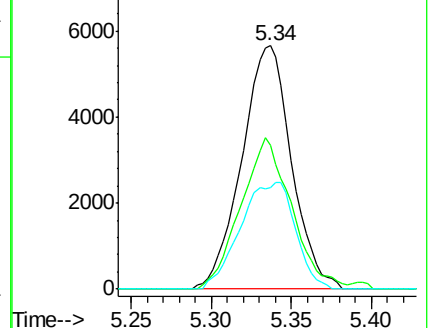
61 24.2 40.2 60.4#

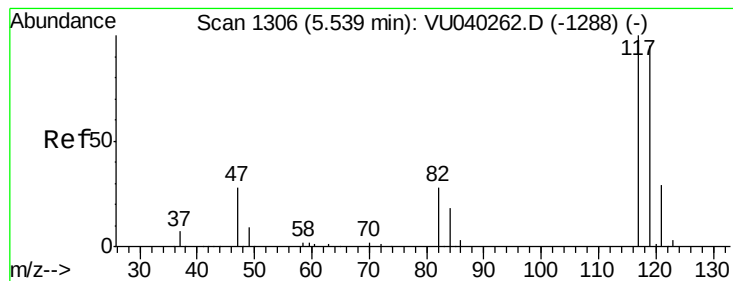


Abundance Ion 97.00 (96.70 to 97.70): VU040269.D (-1149) (-)

Ion 99.00 (98.70 to 99.70): VU040269.D (-1149) (-)

Ion 61.05 (60.75 to 61.75): VU040269.D (-1149) (-)





#31

Carbon tetrachloride

Concen: 2.231 ug/L

RT: 5.54 min Scan# 1307

Delta R.T. 0.00 min

Lab File: VU040269.D

Acq: 24 Sep 2020 13:27

Instrument :

MSVOA_U

ClientSampleId :

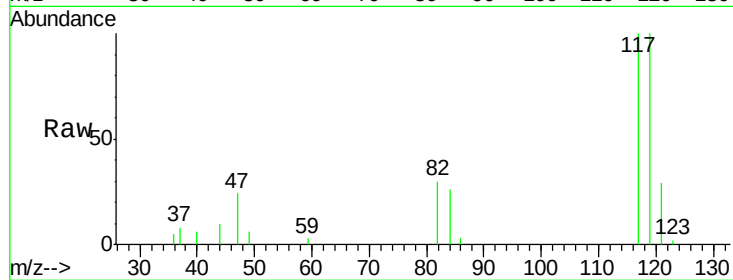
MDL-WATER-02

Tot Ion:117 Resp: 10201

Ion Ratio Lower Upper

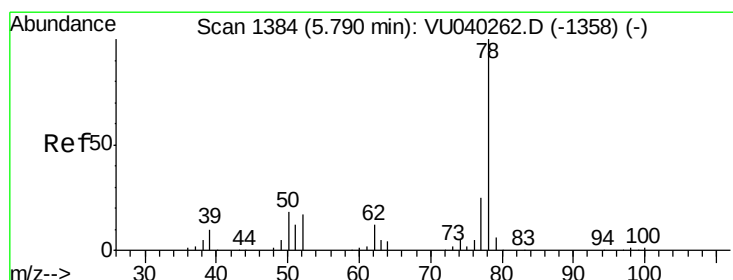
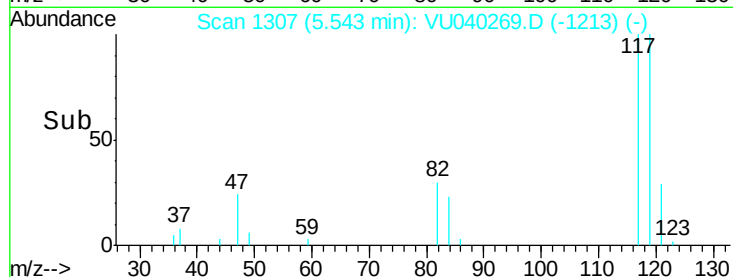
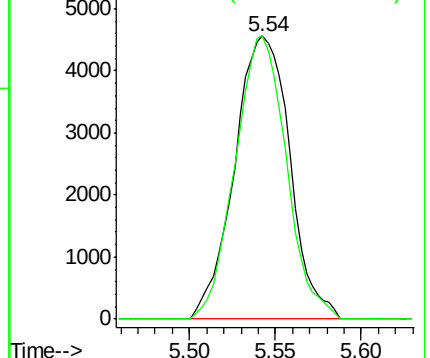
117 100

119 92.5 77.4 116.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 2.302 ug/L

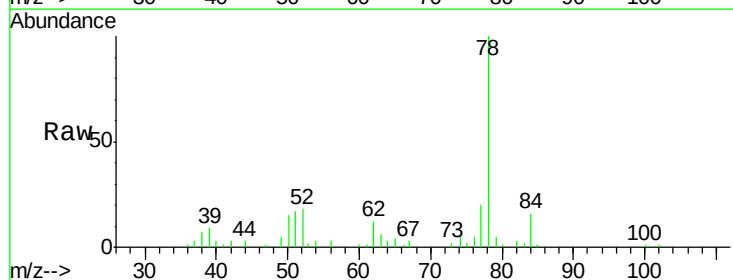
RT: 5.79 min Scan# 1384

Delta R.T. 0.00 min

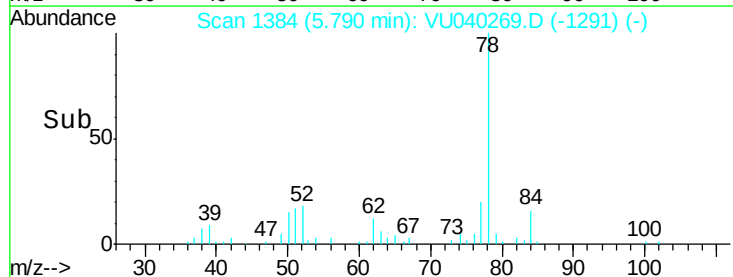
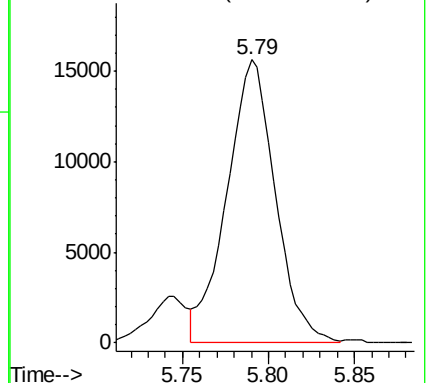
Lab File: VU040269.D

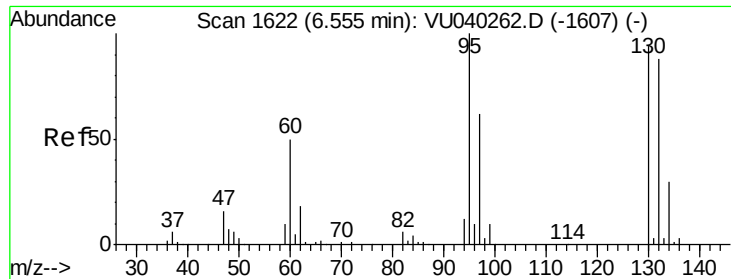
Acq: 24 Sep 2020 13:27

Tgt Ion: 78 Resp: 30683



Abundance Ion 78.00 (77.70 to 78.70): VU0

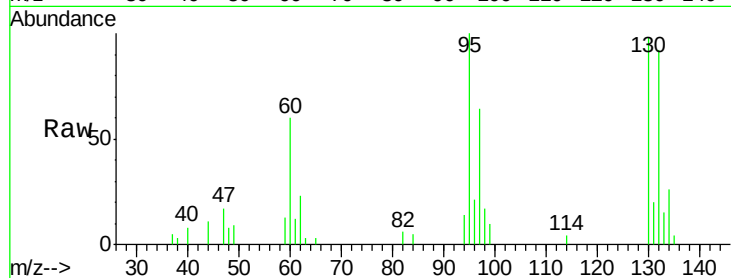




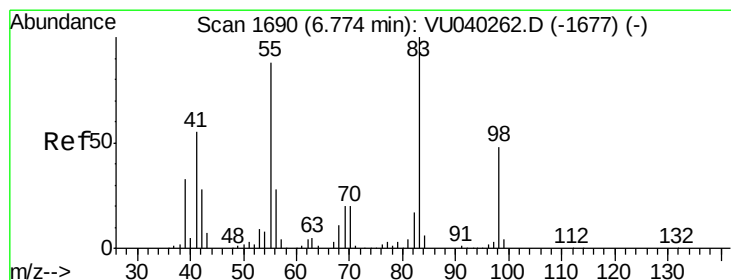
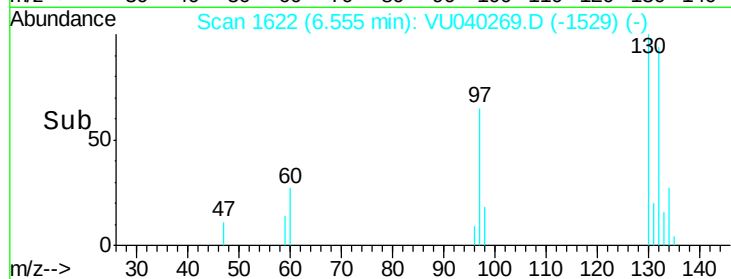
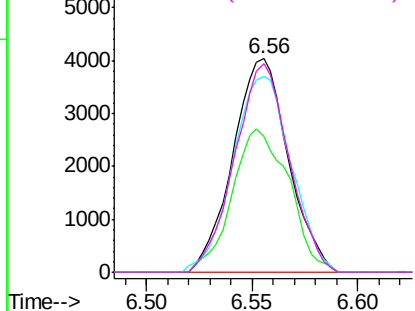
#34
 Trichloroethene
 Concen: 2.161 ug/L
 RT: 6.56 min Scan# 1622
 Delta R.T. 0.00 min
 Lab File: VU040269.D
 Acq: 24 Sep 2020 13:27

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-02

Tot Ion: 95 Resp: 7379
 Ion Ratio Lower Upper
 95 100
 97 63.5 43.8 81.3
 132 91.5 61.7 114.7
 130 97.5 65.9 122.5

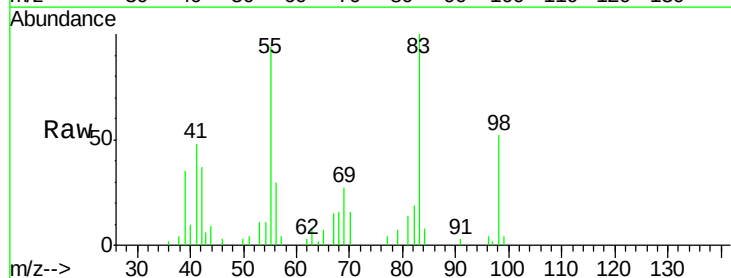


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

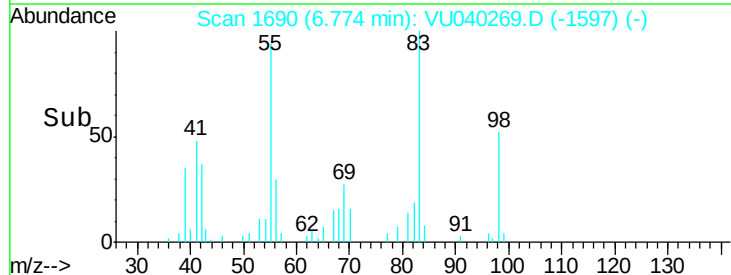
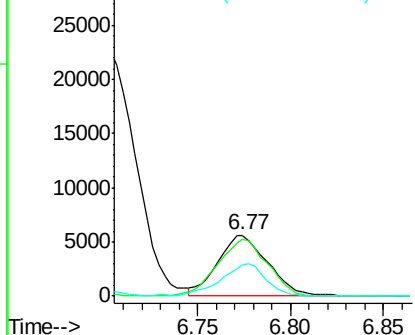


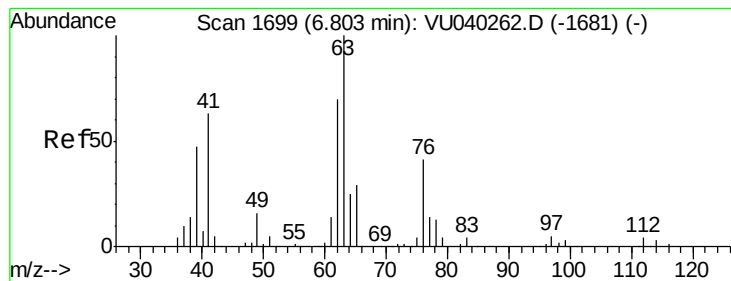
#35
 Methylcyclohexane
 Concen: 2.006 ug/L
 RT: 6.77 min Scan# 1690
 Delta R.T. 0.00 min
 Lab File: VU040269.D
 Acq: 24 Sep 2020 13:27

Tgt Ion: 83 Resp: 10529
 Ion Ratio Lower Upper
 83 100
 55 92.5 69.4 104.0
 98 47.7 38.7 58.1



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





#37

1,2-Dichloropropane

Concen: 2.151 ug/L

RT: 6.80 min Scan# 1699

Delta R.T. 0.00 min

Lab File: VU040269.D

Acq: 24 Sep 2020 13:27

Instrument :

MSVOA_U

ClientSampleId :

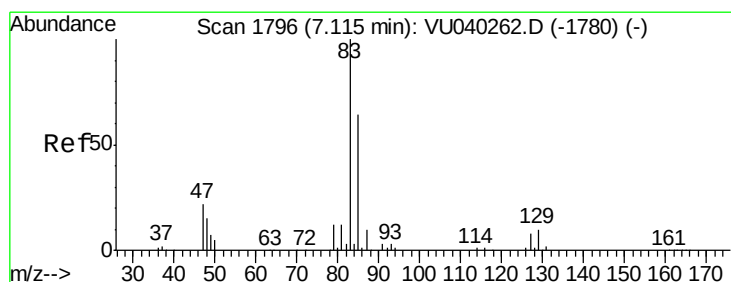
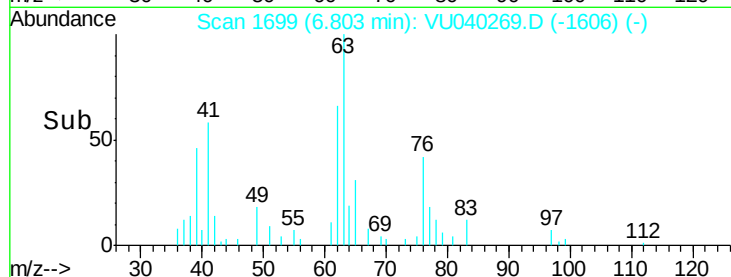
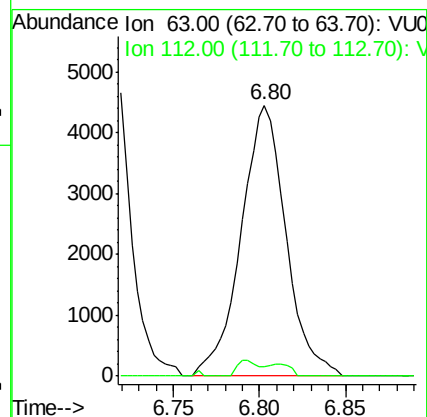
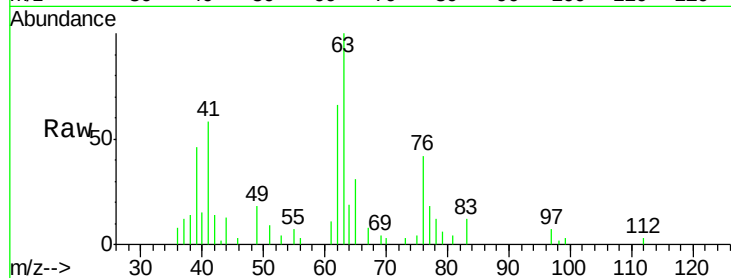
MDL-WATER-02

Tot Ion: 63 Resp: 8065

Ion Ratio Lower Upper

63 100

112 2.5 3.1 4.7#



#38

Bromodichloromethane

Concen: 2.235 ug/L

RT: 7.11 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VU040269.D

Acq: 24 Sep 2020 13:27

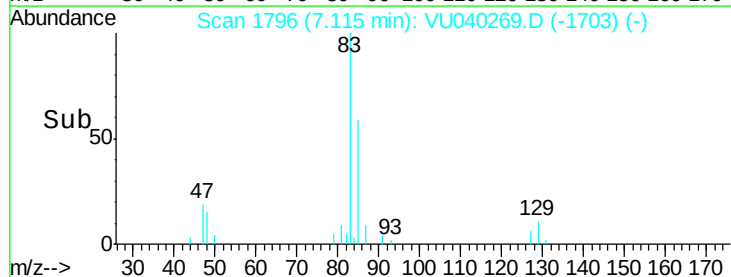
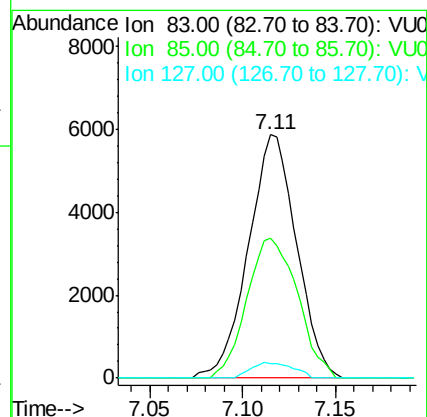
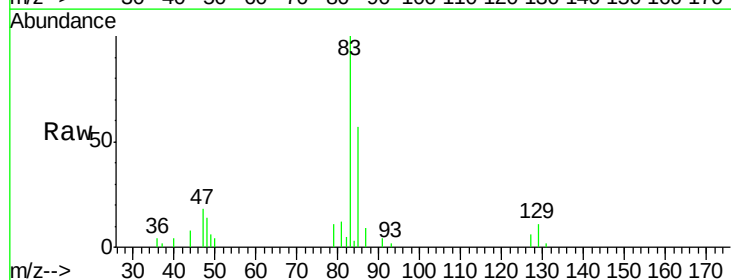
Tgt Ion: 83 Resp: 10634

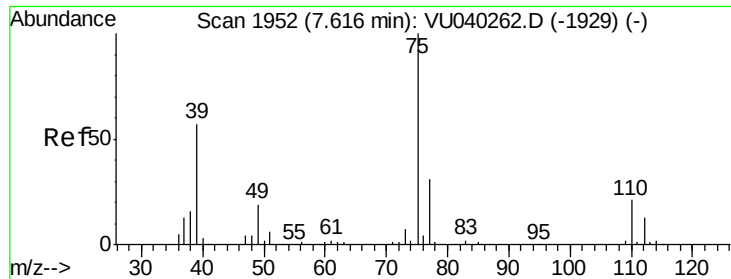
Ion Ratio Lower Upper

83 100

85 57.3 44.9 83.5

127 5.9 6.4 9.6#

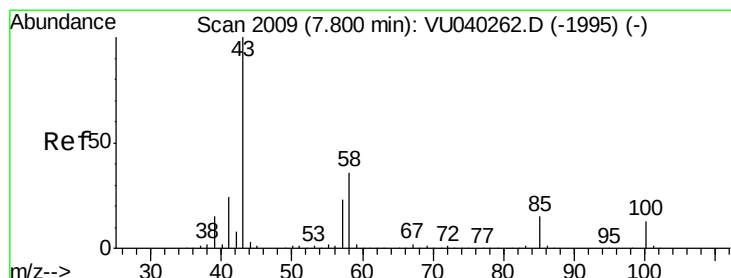
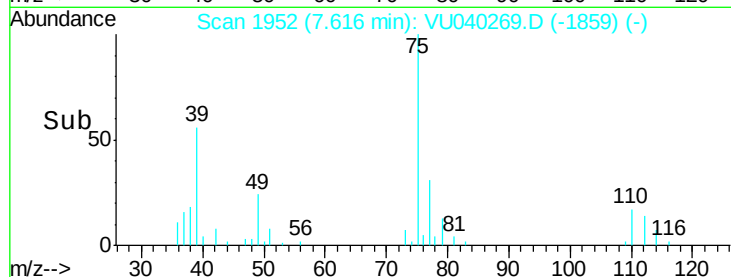
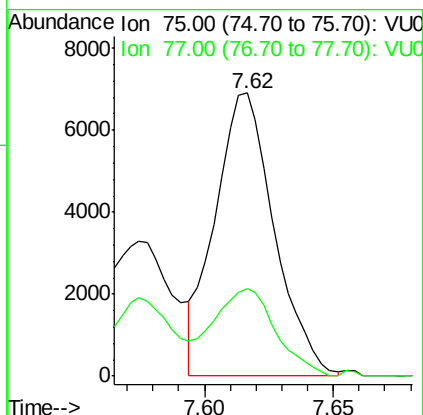
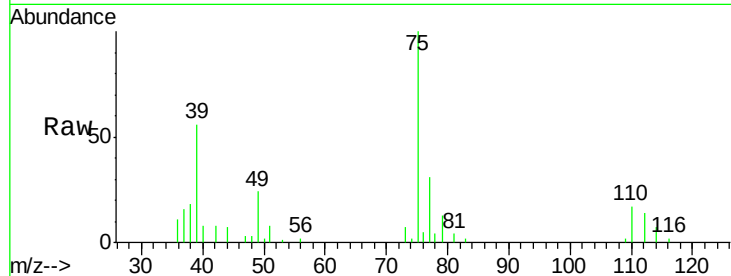




#39
 cis-1,3-Dichloropropene
 Concen: 2.039 ug/L
 RT: 7.62 min Scan# 1952
 Delta R.T. 0.00 min
 Lab File: VU040269.D
 Acq: 24 Sep 2020 13:27

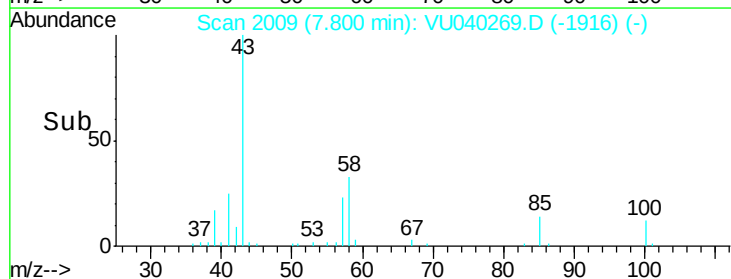
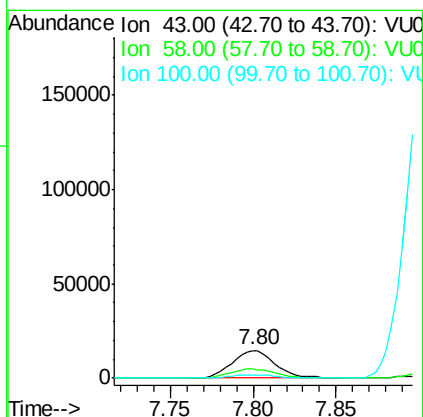
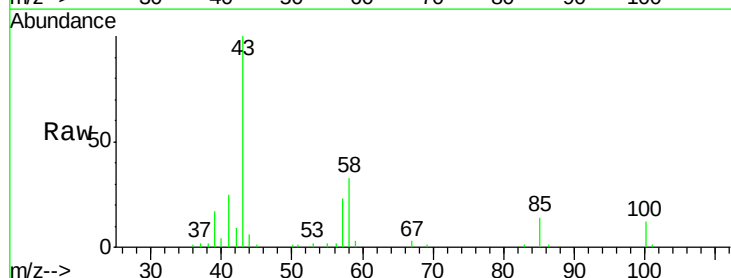
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-02

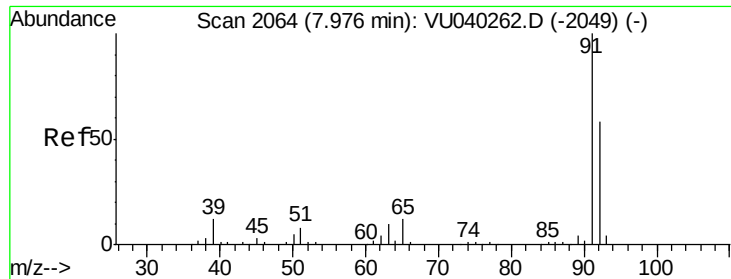
Tot Ion: 75 Resp: 11023
 Ion Ratio Lower Upper
 75 100
 77 30.8 21.9 40.7



#40
 4-Methyl-2-pentanone
 Concen: 4.308 ug/L
 RT: 7.80 min Scan# 2009
 Delta R.T. 0.00 min
 Lab File: VU040269.D
 Acq: 24 Sep 2020 13:27

Tgt Ion: 43 Resp: 26234
 Ion Ratio Lower Upper
 43 100
 58 34.4 28.5 42.7
 100 12.3 10.0 15.0





#42

Toluene

Concen: 2.146 ug/L

RT: 7.97 min Scan# 2063

Delta R.T. -0.00 min

Lab File: VU040269.D

Acq: 24 Sep 2020 13:27

Instrument :

MSVOA_U

ClientSampleId :

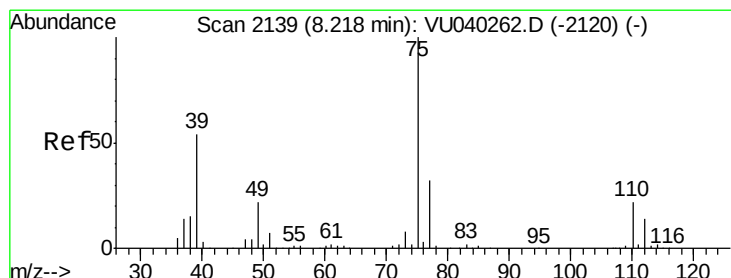
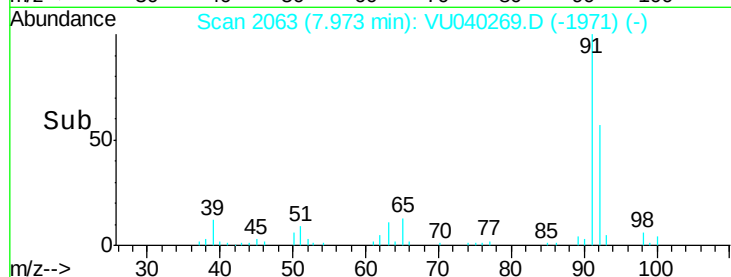
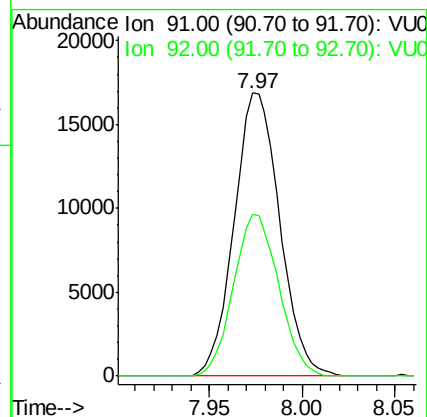
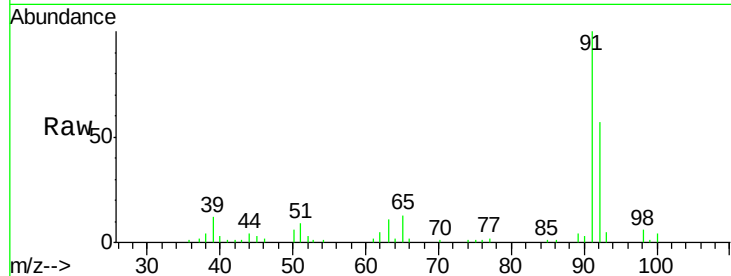
MDL-WATER-02

Tot Ion: 91 Resp: 28924

Ion Ratio Lower Upper

91 100

92 57.3 40.9 75.9



#44

trans-1,3-Dichloropropene

Concen: 1.989 ug/L

RT: 8.22 min Scan# 2139

Delta R.T. 0.00 min

Lab File: VU040269.D

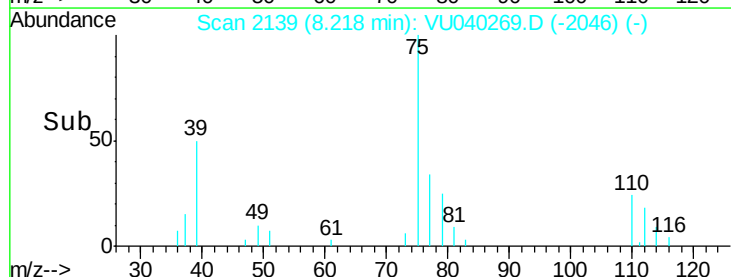
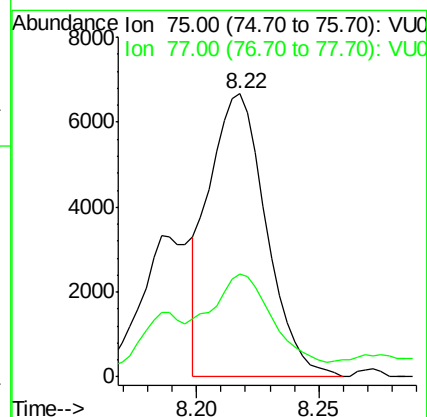
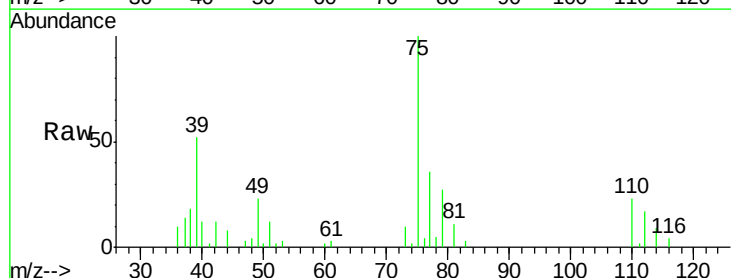
Acq: 24 Sep 2020 13:27

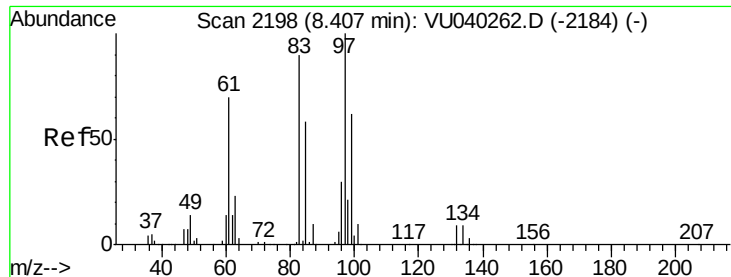
Tgt Ion: 75 Resp: 10870

Ion Ratio Lower Upper

75 100

77 36.1 22.5 41.7

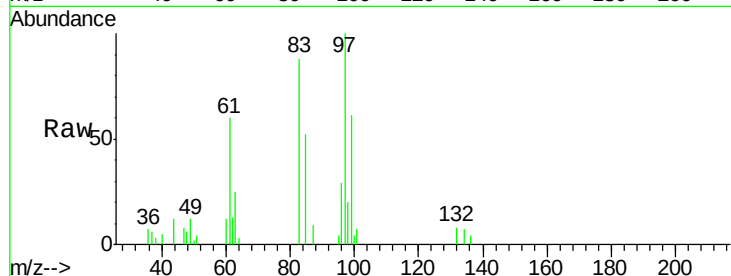




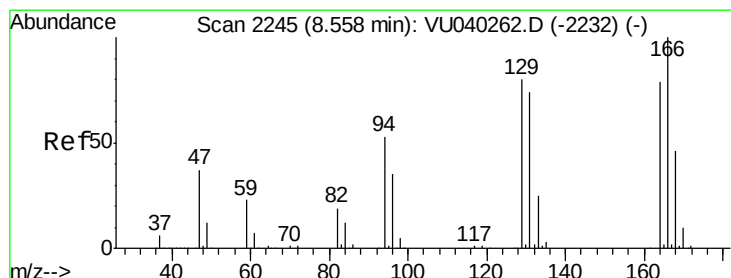
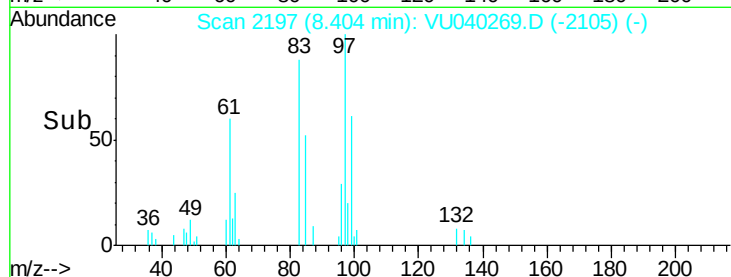
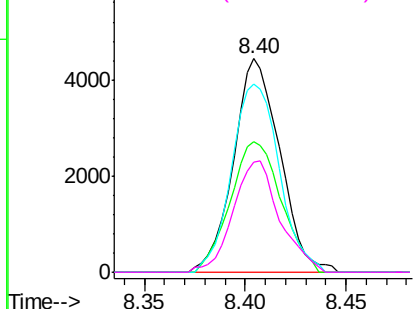
#45
 1,1,2-Trichloroethane
 Concen: 2.193 ug/L
 RT: 8.40 min Scan# 2197
 Delta R.T. -0.00 min
 Lab File: VU040269.D
 Acq: 24 Sep 2020 13:27

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-02

Tot Ion:	97	Resp:	7142
Ion	Ratio	Lower	Upper
97	100		
99	60.9	43.3	80.5
83	88.1	62.7	116.5
85	51.6	40.7	75.5

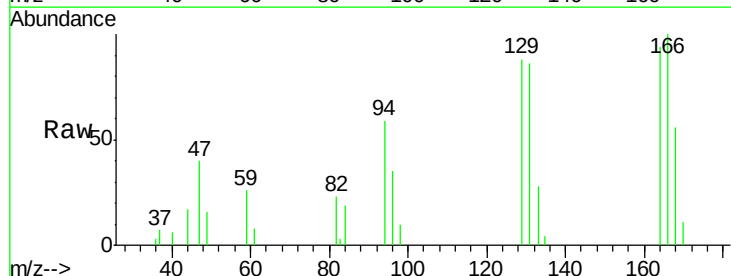


Abundance Ion 97.00 (96.70 to 97.70): VU040269.D (-2197) (-)
 Ion 99.00 (98.70 to 99.70): VU040269.D (-2197) (-)
 Ion 83.00 (82.70 to 83.70): VU040269.D (-2197) (-)
 Ion 85.00 (84.70 to 85.70): VU040269.D (-2197) (-)

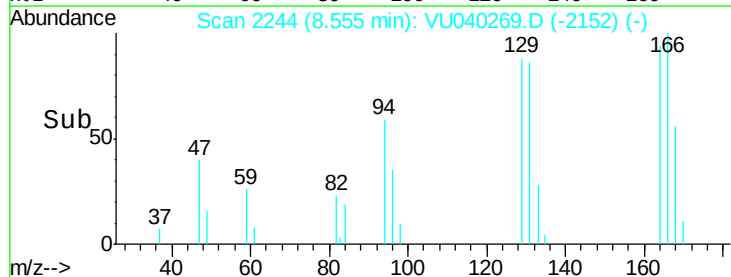
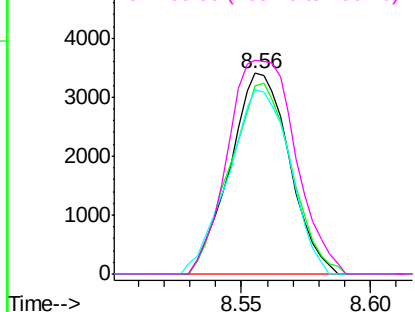


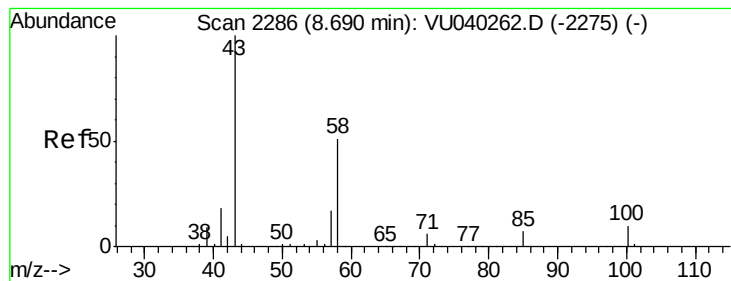
#46
 Tetrachloroethene
 Concen: 2.278 ug/L
 RT: 8.56 min Scan# 2244
 Delta R.T. -0.00 min
 Lab File: VU040269.D
 Acq: 24 Sep 2020 13:27

Tgt Ion:	164	Resp:	5449
Ion	Ratio	Lower	Upper
164	100		
129	93.5	70.5	130.9
131	91.7	65.7	121.9
166	106.4	88.5	164.4



Abundance Ion 164.00 (163.70 to 164.70): VU040269.D (-2244) (-)
 Ion 129.00 (128.70 to 129.70): VU040269.D (-2244) (-)
 Ion 131.00 (130.70 to 131.70): VU040269.D (-2244) (-)
 Ion 166.00 (165.70 to 166.70): VU040269.D (-2244) (-)





#48

2-Hexanone

Concen: 5.771 ug/L

RT: 8.69 min Scan# 2286

Delta R.T. 0.00 min

Lab File: VU040269.D

Acq: 24 Sep 2020 13:27

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-02

Tot Ion: 43 Resp: 28145

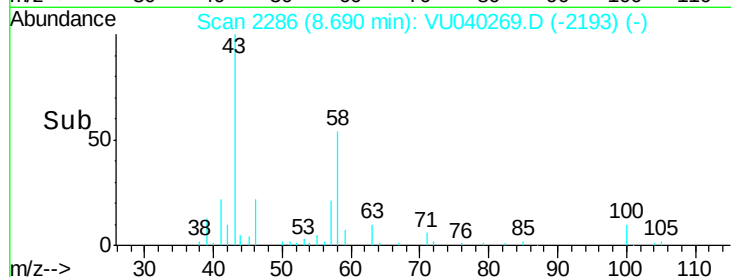
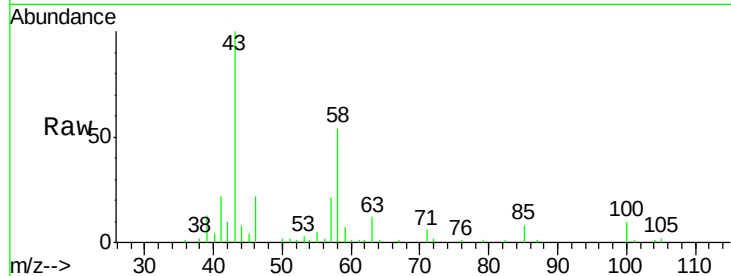
Ion Ratio Lower Upper

43 100

58 47.6 40.3 60.5

57 20.1 13.9 20.9

100 9.3 8.2 12.2



Abundance Ion 43.00 (42.70 to 43.70): VU040269.D (-2193) (-)

Ion 58.00 (57.70 to 58.70): VU040269.D (-2193) (-)

Ion 57.00 (56.70 to 57.70): VU040269.D (-2193) (-)

Ion 100.00 (99.70 to 100.70): VU040269.D (-2193) (-)

Time-->

8.69

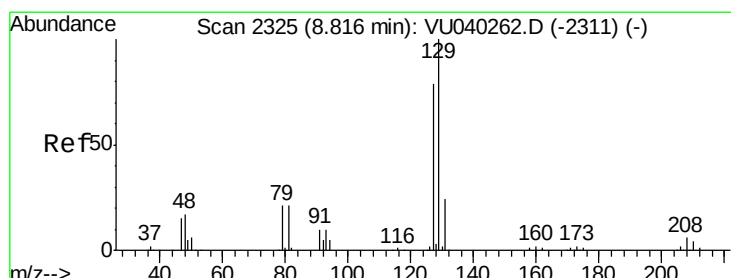
15000

10000

5000

0

8.65 8.70 8.75



#49

Dibromochloromethane

Concen: 2.123 ug/L

RT: 8.81 min Scan# 2324

Delta R.T. -0.00 min

Lab File: VU040269.D

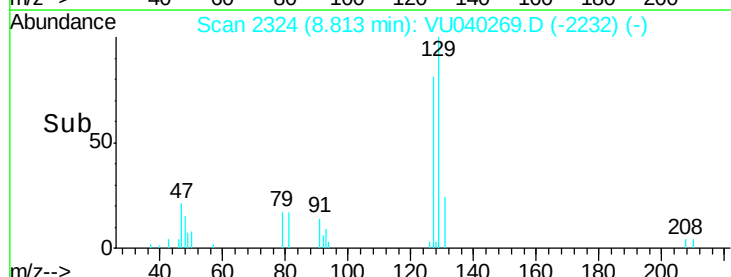
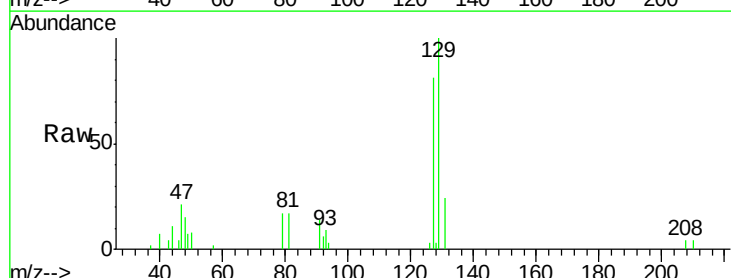
Acq: 24 Sep 2020 13:27

Tgt Ion: 129 Resp: 7580

Ion Ratio Lower Upper

129 100

127 81.5 55.1 102.3



Abundance Ion 129.00 (128.70 to 129.70): VU040269.D (-2232) (-)

Ion 127.00 (126.70 to 127.70): VU040269.D (-2232) (-)

Time-->

8.81

5000

4000

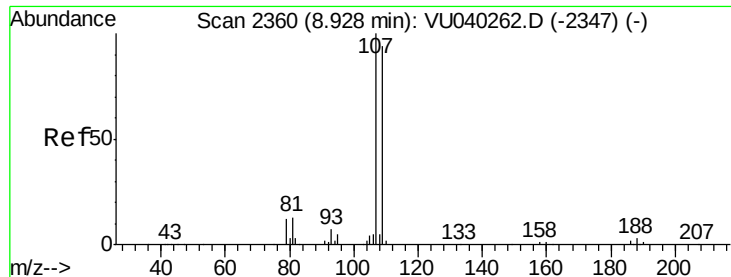
3000

2000

1000

0

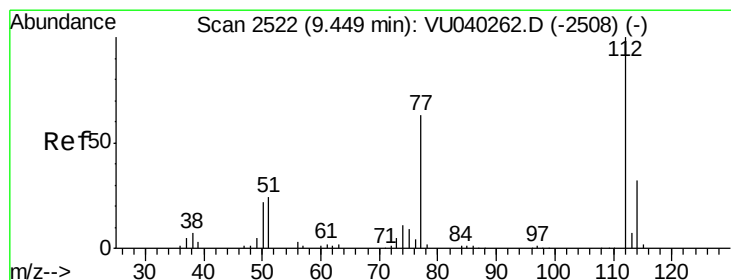
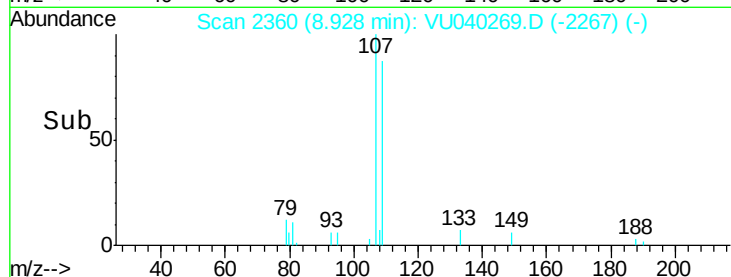
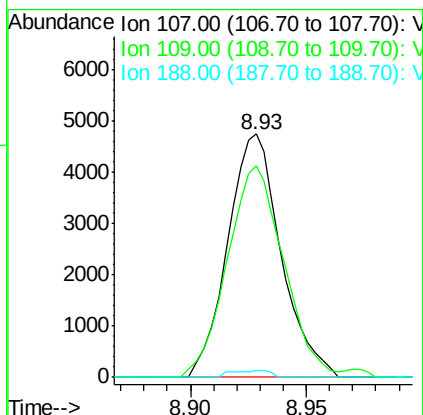
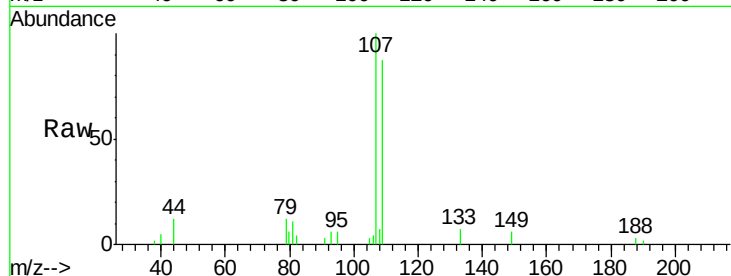
8.75 8.80 8.85



#50
 1,2-Dibromoethane
 Concen: 2.167 ug/L
 RT: 8.93 min Scan# 2360
 Delta R.T. 0.00 min
 Lab File: VU040269.D
 Acq: 24 Sep 2020 13:27

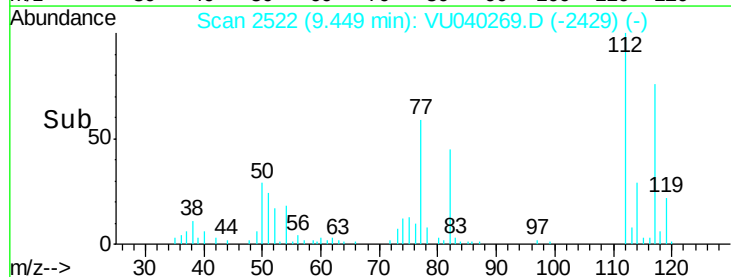
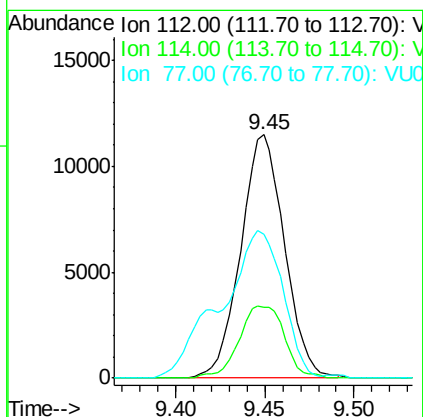
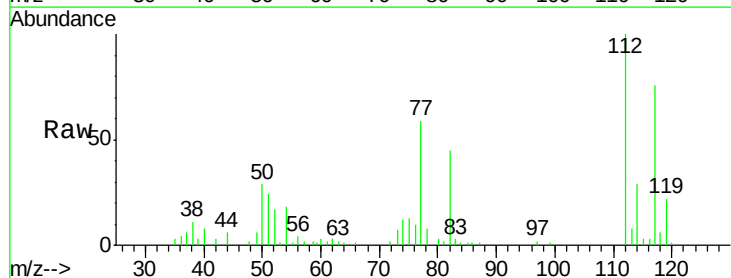
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-02

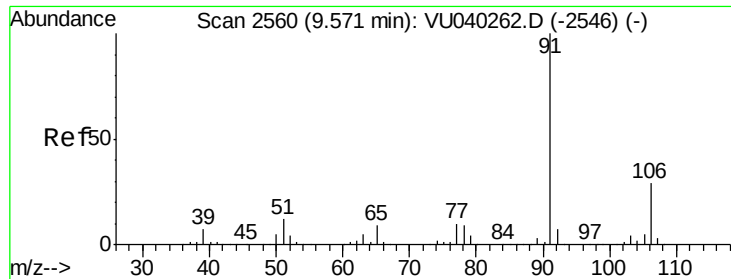
Tot Ion:107 Resp: 7575
 Ion Ratio Lower Upper
 107 100
 109 87.2 65.9 122.3
 188 2.8 2.6 3.8



#51
 Chlorobenzene
 Concen: 2.219 ug/L
 RT: 9.45 min Scan# 2522
 Delta R.T. 0.00 min
 Lab File: VU040269.D
 Acq: 24 Sep 2020 13:27

Tgt Ion:112 Resp: 19729
 Ion Ratio Lower Upper
 112 100
 114 28.9 22.7 42.3
 77 59.3 50.7 76.1





#52

Ethylbenzene

Concen: 1.995 ug/L

RT: 9.57 min Scan# 2560

Delta R.T. 0.00 min

Lab File: VU040269.D

Acq: 24 Sep 2020 13:27

Instrument :

MSVOA_U

ClientSampleId :

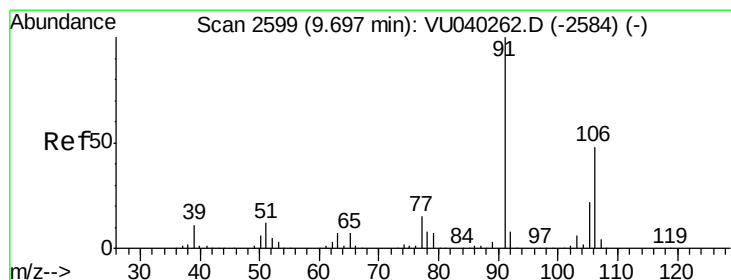
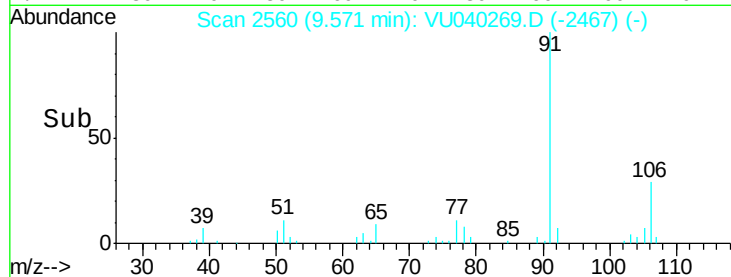
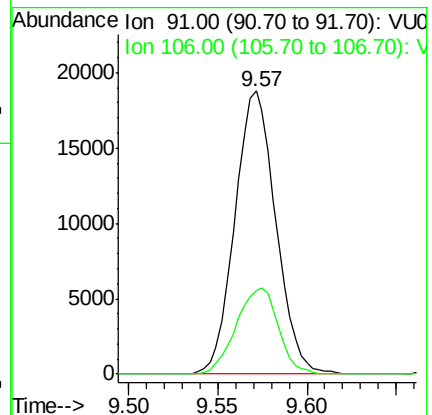
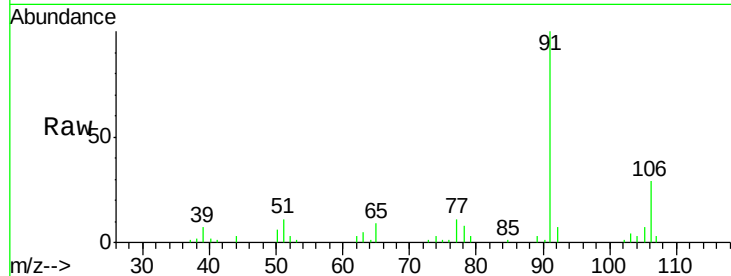
MDL-WATER-02

Tot Ion: 91 Resp: 29962

Ion Ratio Lower Upper

91 100

106 29.4 20.6 38.2



#53

m,p-Xylene

Concen: 1.937 ug/L

RT: 9.69 min Scan# 2598

Delta R.T. -0.00 min

Lab File: VU040269.D

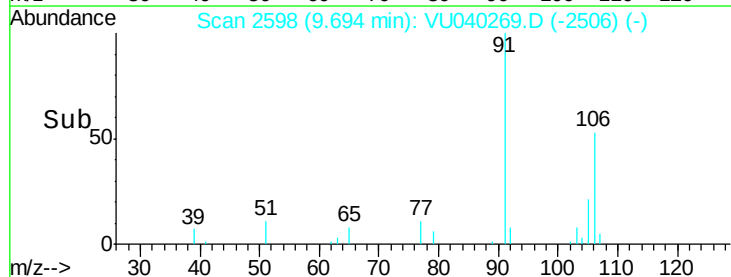
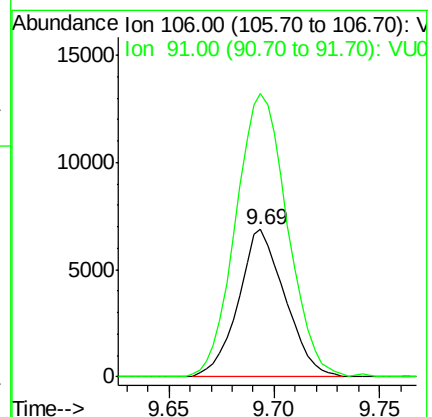
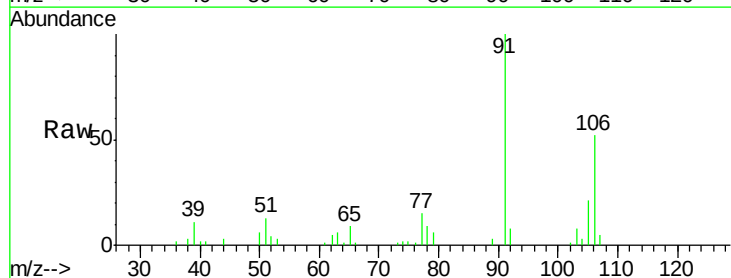
Acq: 24 Sep 2020 13:27

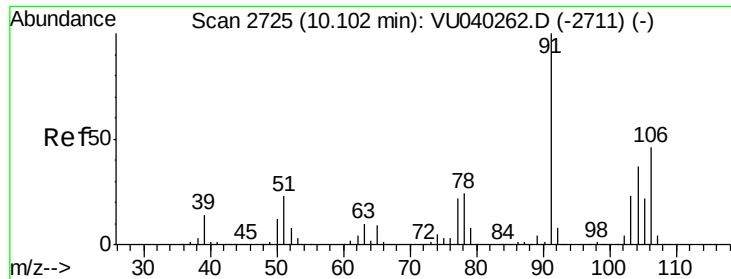
Tgt Ion: 106 Resp: 10571

Ion Ratio Lower Upper

106 100

91 191.9 147.1 273.3





#54

o-xylene

Concen: 1.781 ug/L

RT: 10.10 min Scan# 2725

Delta R.T. 0.00 min

Lab File: VU040269.D

Acq: 24 Sep 2020 13:27

Instrument :

MSVOA_U

ClientSampleId :

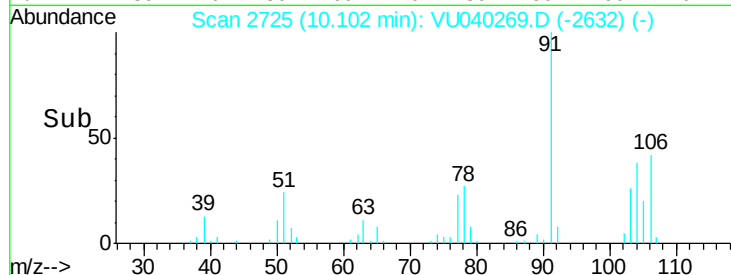
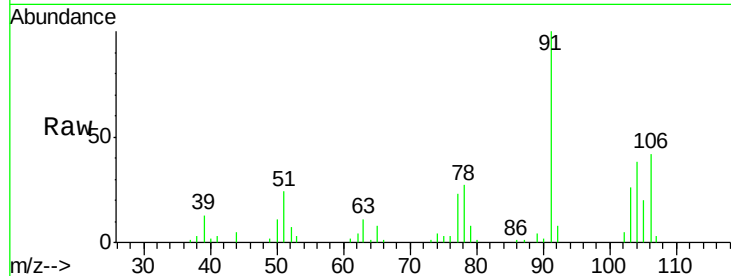
MDL-WATER-02

Tot Ion:106 Resp: 9494

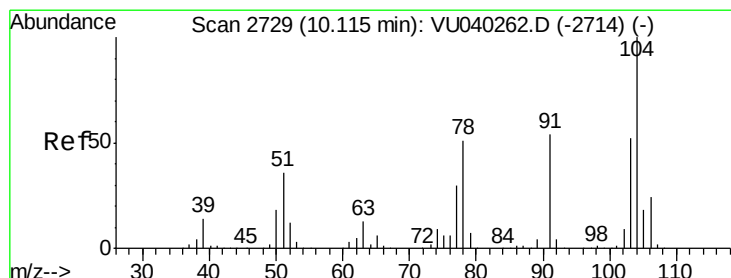
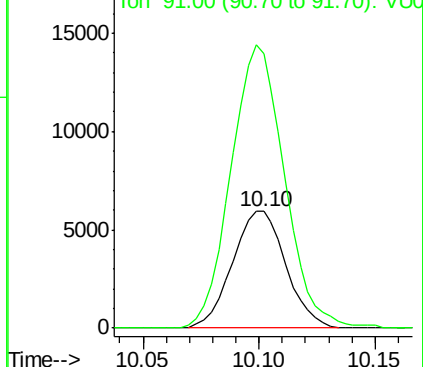
Ion Ratio Lower Upper

106 100

91 235.4 152.8 283.8



Abundance Ion 106.00 (105.70 to 106.70): V



#55

Styrene

Concen: 1.769 ug/L

RT: 10.11 min Scan# 2729

Delta R.T. 0.00 min

Lab File: VU040269.D

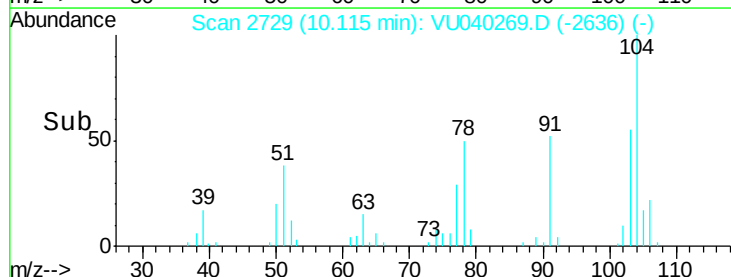
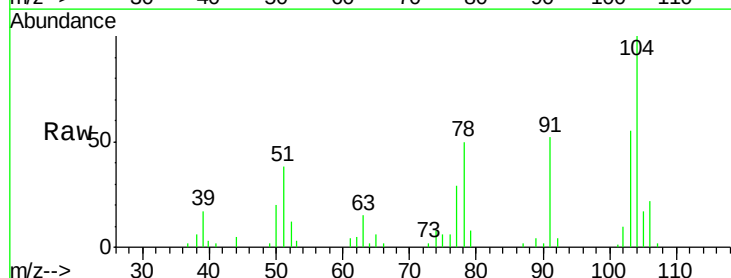
Acq: 24 Sep 2020 13:27

Tgt Ion:104 Resp: 16141

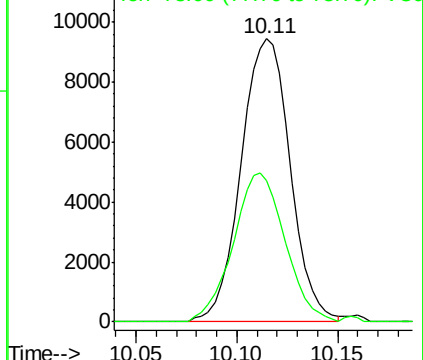
Ion Ratio Lower Upper

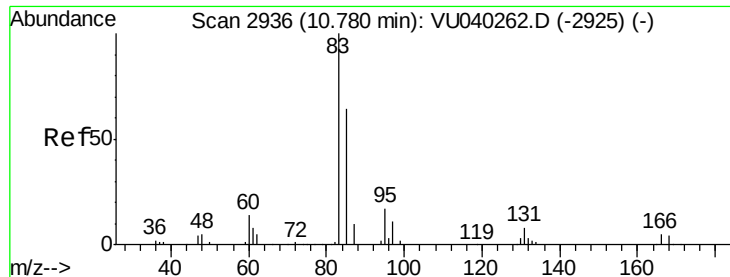
104 100

78 49.8 35.8 66.4



Abundance Ion 104.00 (103.70 to 104.70): V

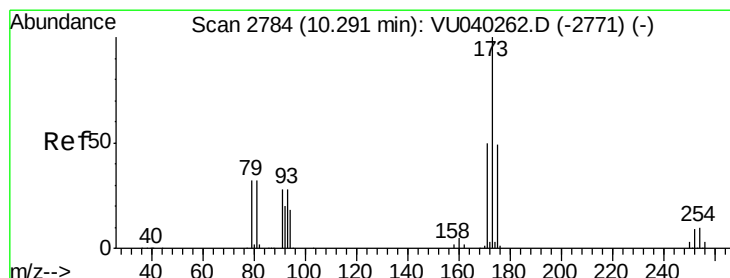
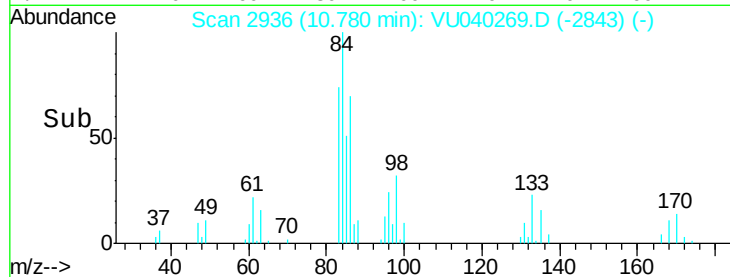
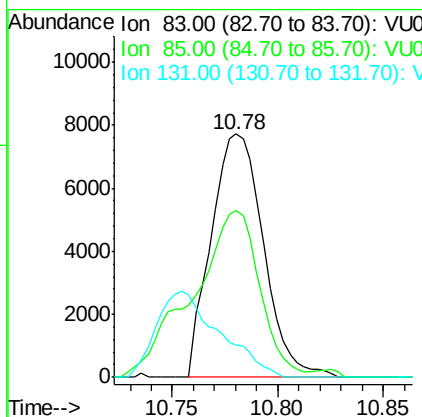
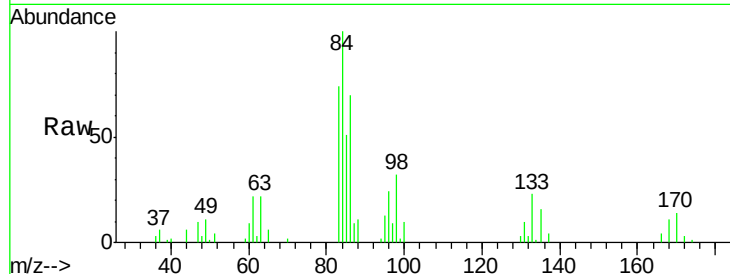




#57
 1,1,2,2-Tetrachloroethane
 Concen: 2.322 ug/L
 RT: 10.78 min Scan# 2936
 Delta R.T. 0.00 min
 Lab File: VU040269.D
 Acq: 24 Sep 2020 13:27

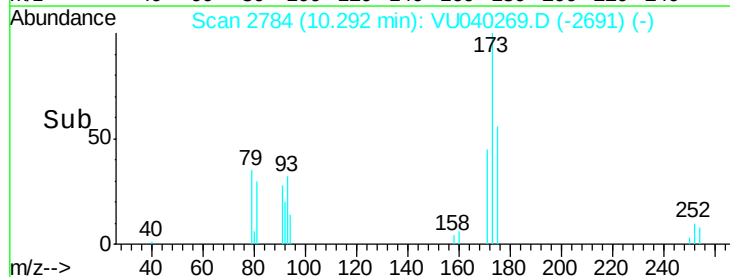
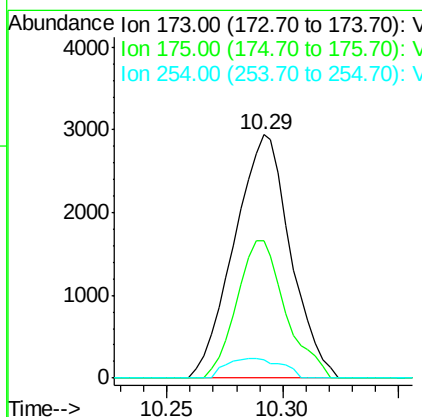
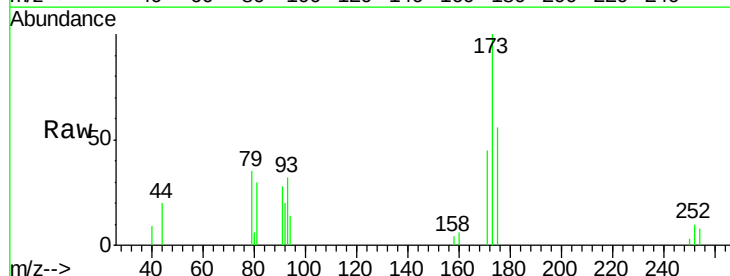
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-02

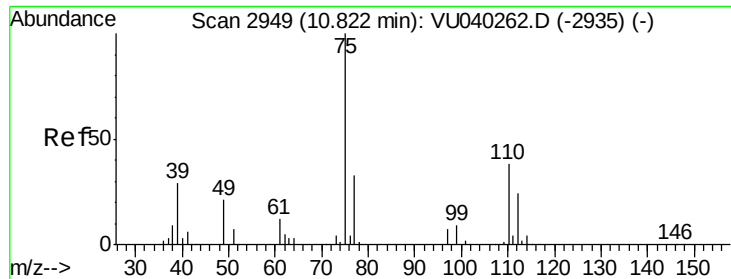
Tot Ion: 83 Resp: 13300
 Ion Ratio Lower Upper
 83 100
 85 68.6 45.6 84.6
 131 13.4 7.4 11.0#



#59
 Bromoform
 Concen: 2.118 ug/L
 RT: 10.29 min Scan# 2784
 Delta R.T. 0.00 min
 Lab File: VU040269.D
 Acq: 24 Sep 2020 13:27

Tgt Ion: 173 Resp: 4947
 Ion Ratio Lower Upper
 173 100
 175 49.0 38.6 58.0
 254 8.0 7.0 10.4

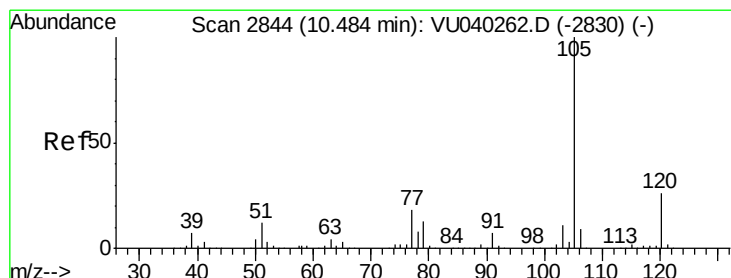
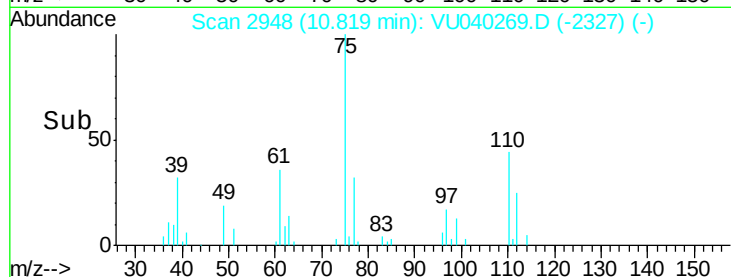
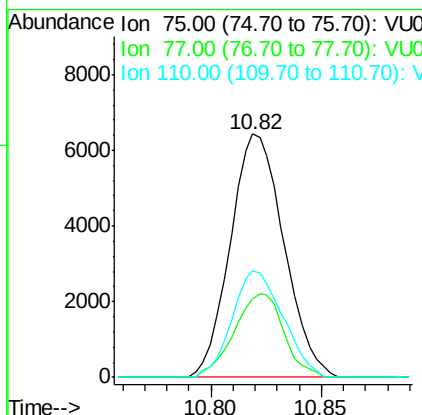
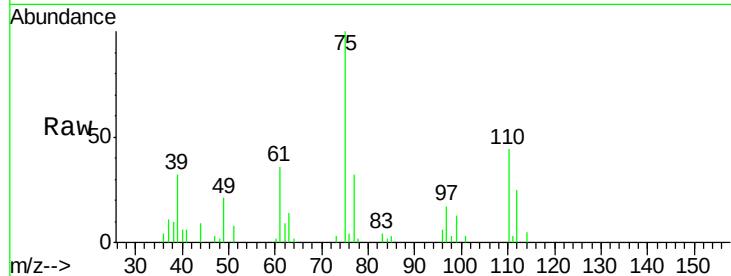




#60
 1,2,3-Trichloropropane
 Concen: 2.396 ug/L
 RT: 10.82 min Scan# 2948
 Delta R.T. -0.00 min
 Lab File: VU040269.D
 Acq: 24 Sep 2020 13:27

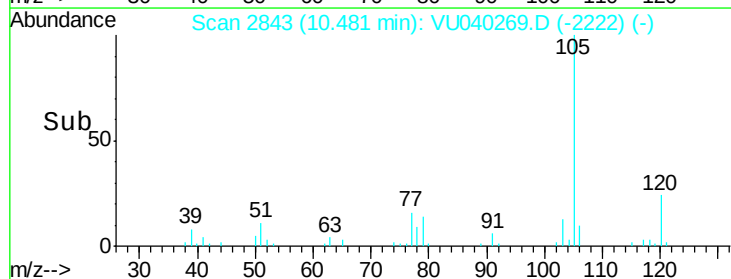
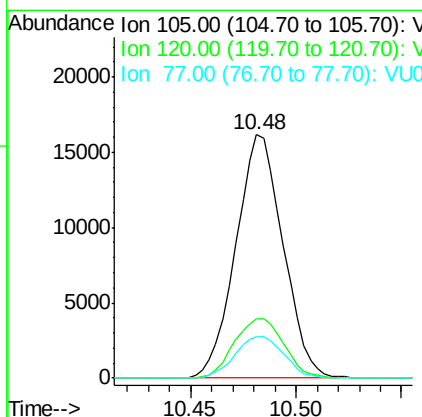
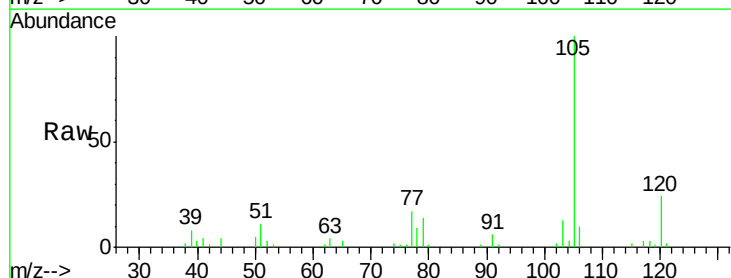
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-02

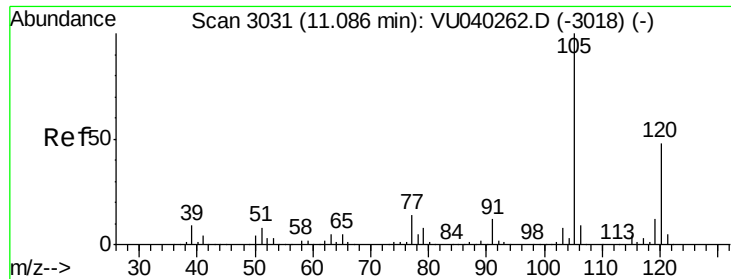
Tot Ion: 75 Resp: 10845
 Ion Ratio Lower Upper
 75 100
 77 31.8 26.0 39.0
 110 41.5 29.8 44.8



#61
 Isopropylbenzene
 Concen: 1.896 ug/L
 RT: 10.48 min Scan# 2843
 Delta R.T. -0.00 min
 Lab File: VU040269.D
 Acq: 24 Sep 2020 13:27

Tgt Ion: 105 Resp: 25112
 Ion Ratio Lower Upper
 105 100
 120 25.8 20.6 30.8
 77 17.6 13.8 20.6

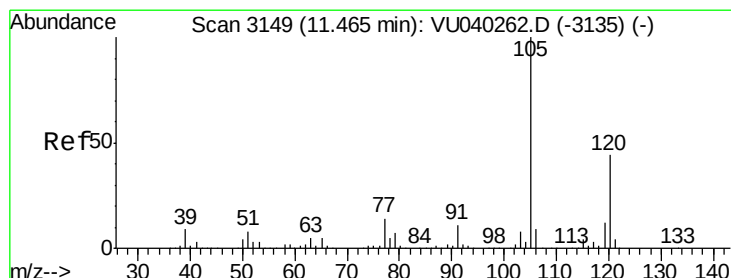
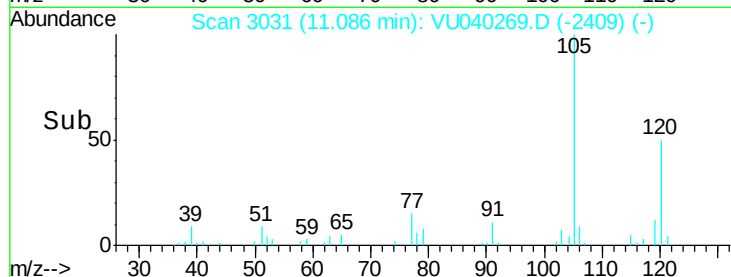
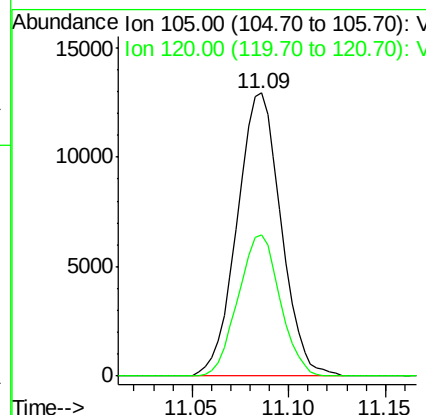
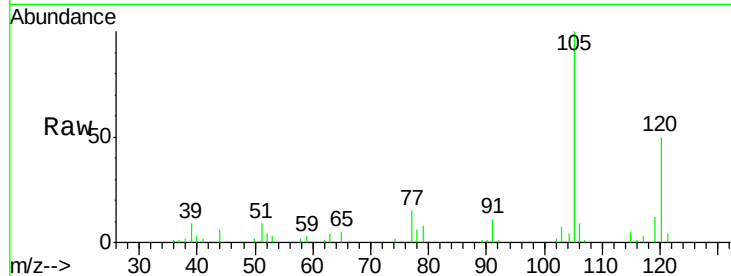




#62
 1,3,5-Trimethylbenzene
 Concen: 1.890 ug/L
 RT: 11.09 min Scan# 3031
 Delta R.T. 0.00 min
 Lab File: VU040269.D
 Acq: 24 Sep 2020 13:27

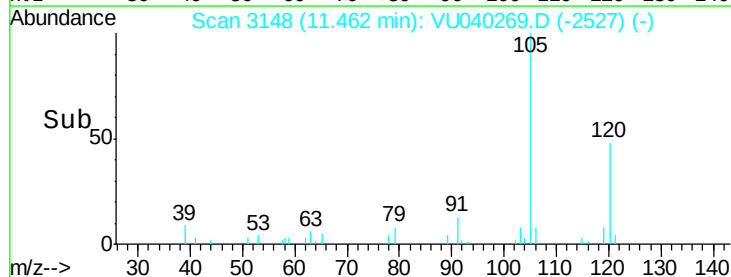
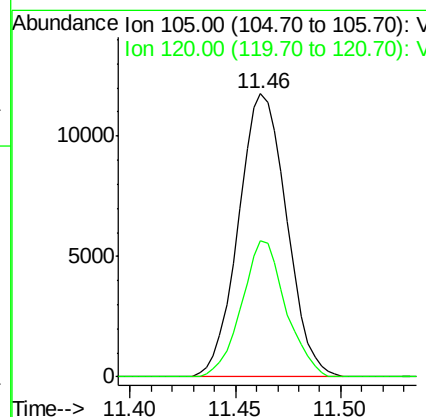
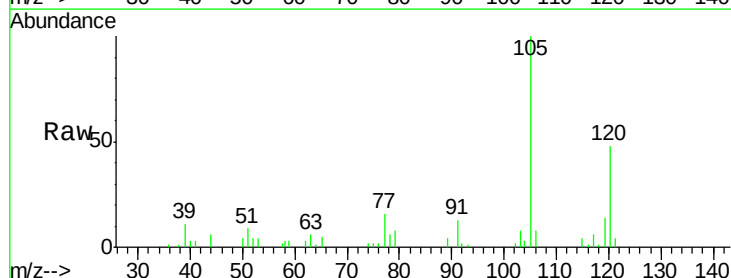
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-02

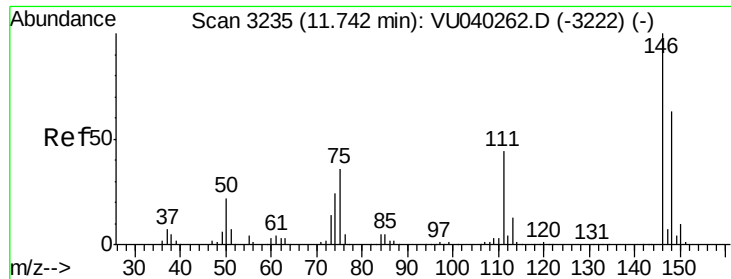
Tot Ion:105 Resp: 20448
 Ion Ratio Lower Upper
 105 100
 120 47.6 38.7 58.1



#63
 1,2,4-Trimethylbenzene
 Concen: 1.702 ug/L
 RT: 11.46 min Scan# 3148
 Delta R.T. -0.00 min
 Lab File: VU040269.D
 Acq: 24 Sep 2020 13:27

Tgt Ion:105 Resp: 18658
 Ion Ratio Lower Upper
 105 100
 120 44.1 35.8 53.6

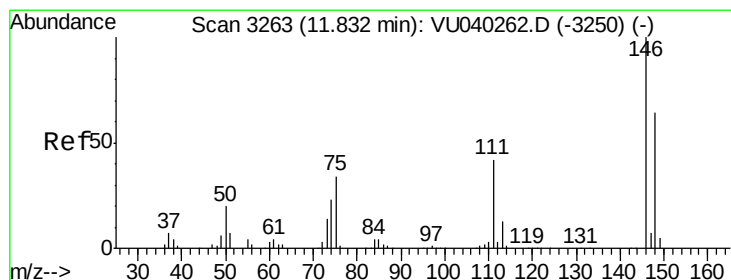
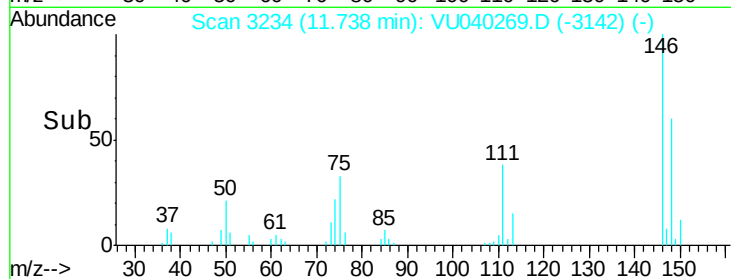
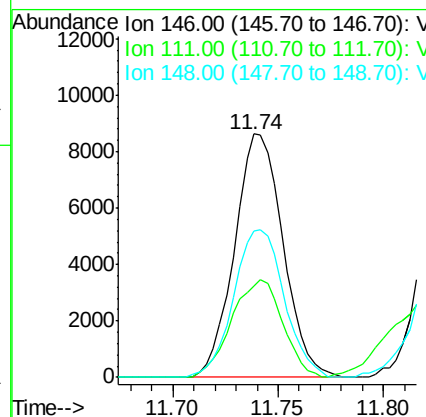
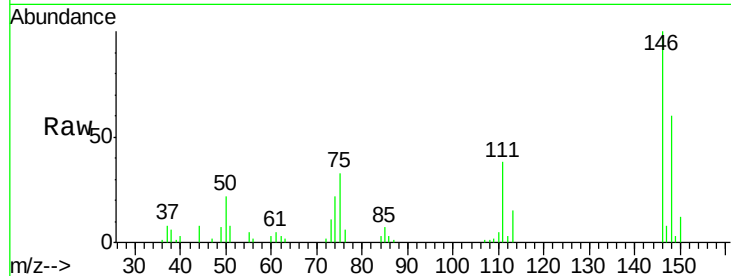




#64
 1,3-Dichlorobenzene
 Concen: 2.194 ug/L
 RT: 11.74 min Scan# 3234
 Delta R.T. -0.00 min
 Lab File: VU040269.D
 Acq: 24 Sep 2020 13:27

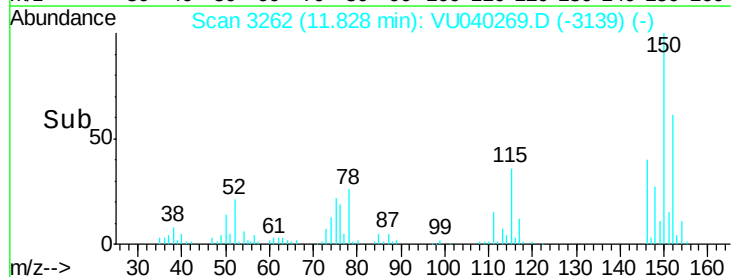
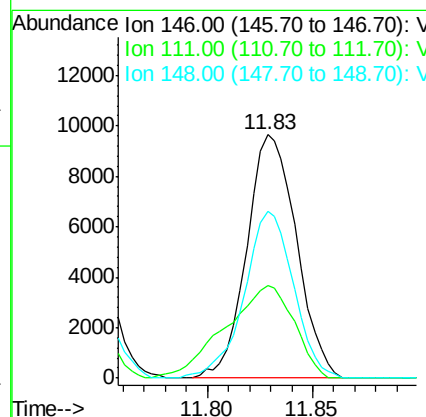
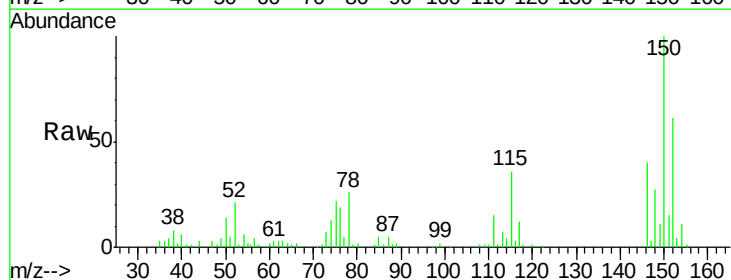
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-02

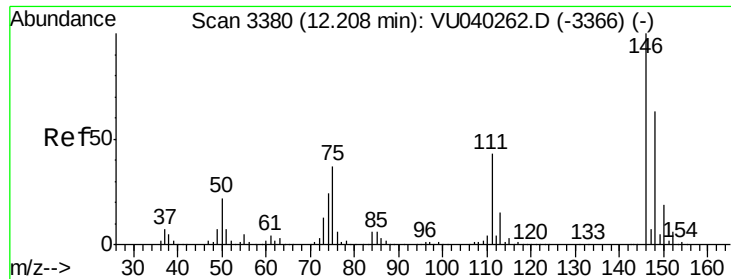
Tot Ion	Ratio	Lower	Upper
146	100		
111	37.6	30.6	56.8
148	59.8	44.4	82.5



#65
 1,4-Dichlorobenzene
 Concen: 2.424 ug/L
 RT: 11.83 min Scan# 3262
 Delta R.T. -0.00 min
 Lab File: VU040269.D
 Acq: 24 Sep 2020 13:27

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.1	29.4	54.6
148	68.6	44.7	83.1

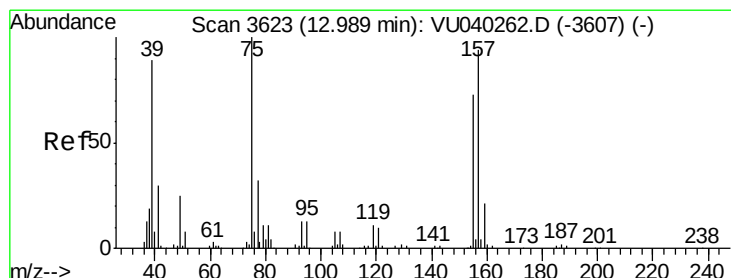
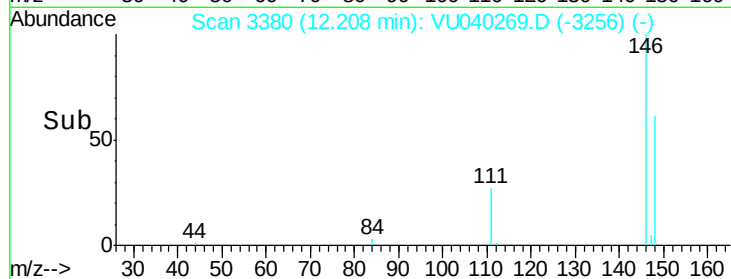
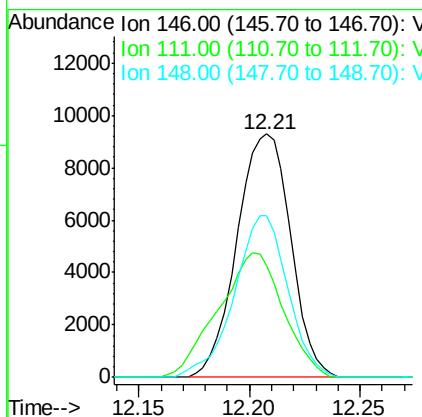
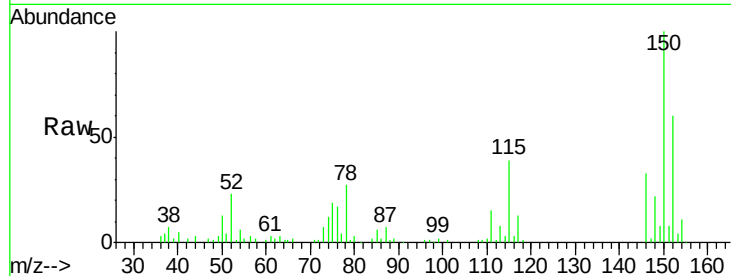




#67
 1,2-Dichlorobenzene
 Concen: 2.510 ug/L
 RT: 12.21 min Scan# 3380
 Delta R.T. 0.00 min
 Lab File: VU040269.D
 Acq: 24 Sep 2020 13:27

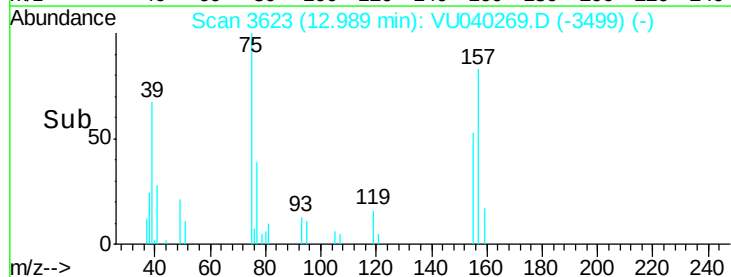
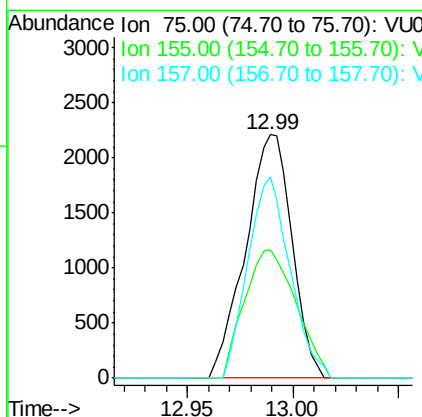
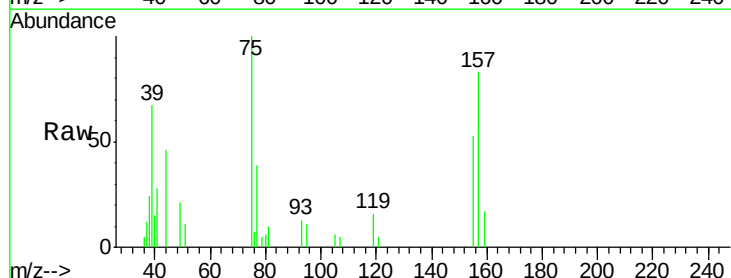
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-02

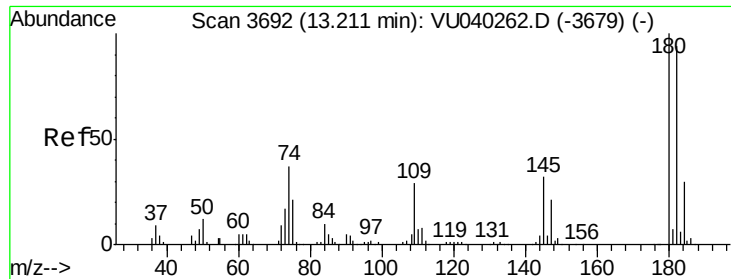
Tot Ion:146 Resp: 15665
 Ion Ratio Lower Upper
 146 100
 111 45.9 34.5 51.7
 148 66.4 50.5 75.7



#68
 1,2-Dibromo-3-chloropropane
 Concen: 2.648 ug/L
 RT: 12.99 min Scan# 3623
 Delta R.T. 0.00 min
 Lab File: VU040269.D
 Acq: 24 Sep 2020 13:27

Tgt Ion: 75 Resp: 3379
 Ion Ratio Lower Upper
 75 100
 155 52.5 58.8 88.2#
 157 82.9 75.1 112.7





#69

1,3,5-Trichlorobenzene

Concen: 2.314 ug/L

RT: 13.21 min Scan# 3692

Delta R.T. 0.00 min

Lab File: VU040269.D

Acq: 24 Sep 2020 13:27

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-02

Tot Ion:180 Resp: 9450

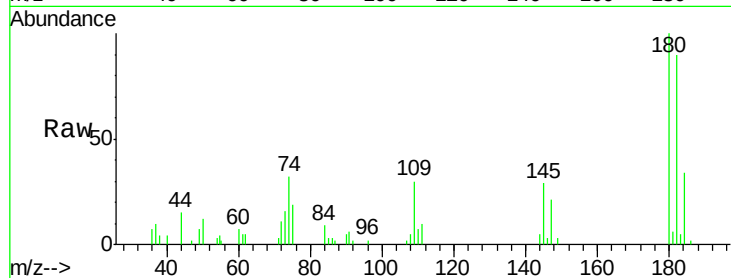
Ion Ratio Lower Upper

180 100

182 96.4 75.4 113.0

184 34.7 23.7 35.5

145 31.1 25.3 37.9

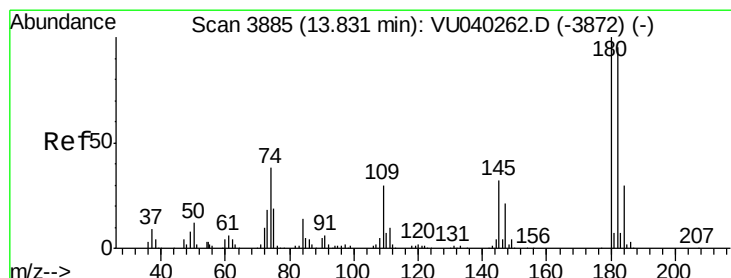
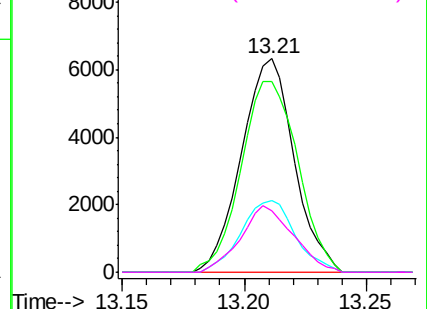
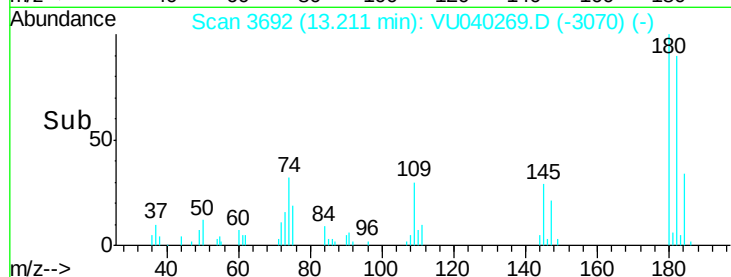


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#70

1,2,4-trichlorobenzene

Concen: 2.207 ug/L

RT: 13.83 min Scan# 3884

Delta R.T. -0.00 min

Lab File: VU040269.D

Acq: 24 Sep 2020 13:27

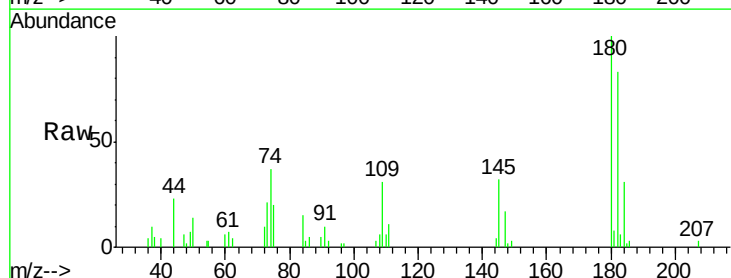
Tgt Ion:180 Resp: 7783

Ion Ratio Lower Upper

180 100

182 93.5 76.3 114.5

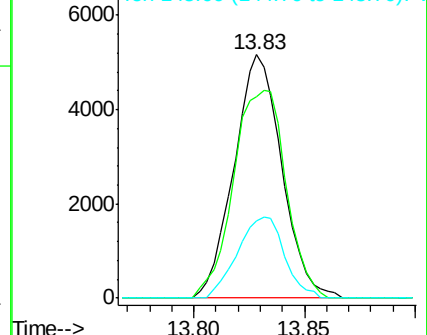
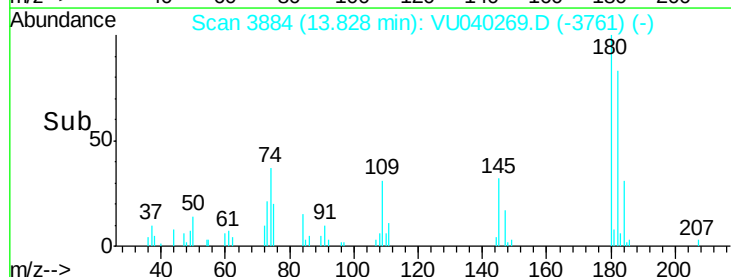
145 32.6 26.0 39.0

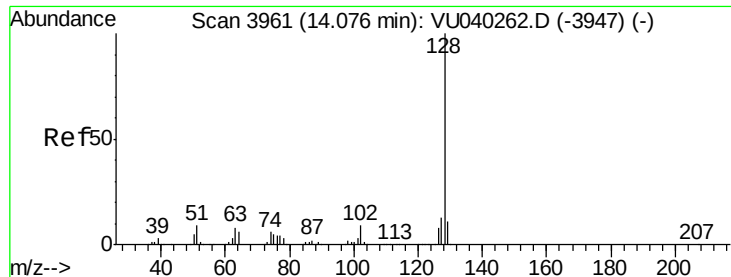


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#71

Naphthalene

Concen: 1.740 ug/L

RT: 14.08 min Scan# 3961

Delta R.T. 0.00 min

Lab File: VU040269.D

Acq: 24 Sep 2020 13:27

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-02

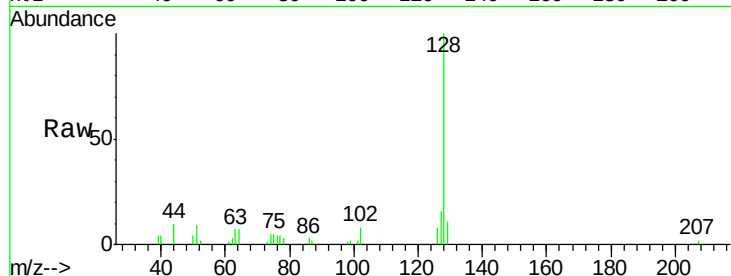
Tot Ion:128 Resp: 19000

Ion Ratio Lower Upper

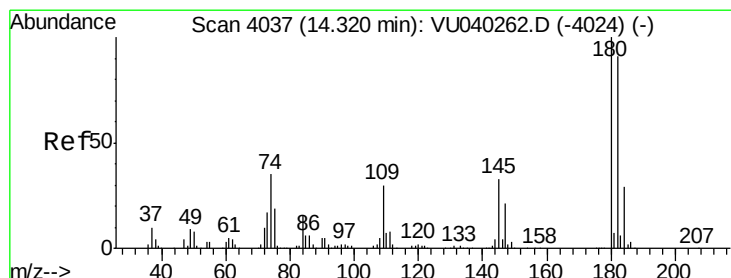
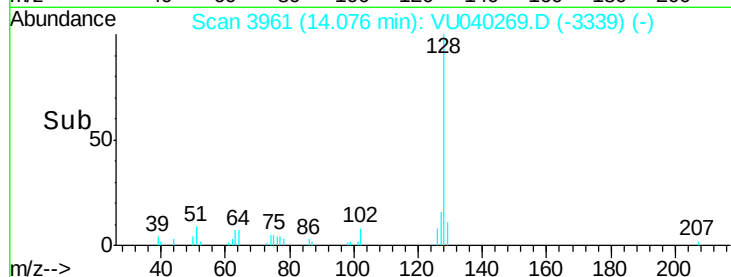
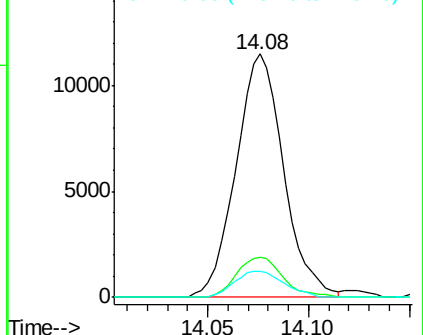
128 100

127 16.0 10.3 15.5#

129 11.2 8.8 13.2



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



#72

1,2,3-Trichlorobenzene

Concen: 2.213 ug/L

RT: 14.32 min Scan# 4037

Delta R.T. 0.00 min

Lab File: VU040269.D

Acq: 24 Sep 2020 13:27

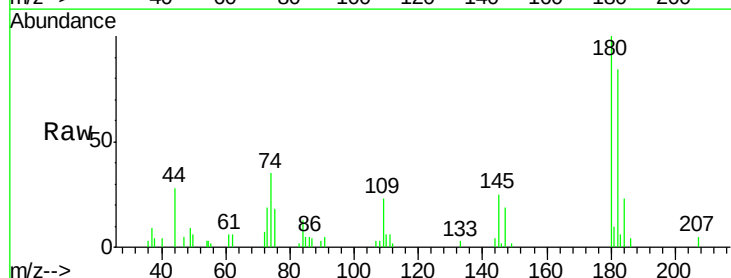
Tgt Ion:180 Resp: 7698

Ion Ratio Lower Upper

180 100

182 91.0 74.2 111.4

145 30.3 27.8 41.6



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

