

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092420\
 Data File : VU040269.D
 Acq On : 24 Sep 2020 13:27
 Operator : SY/MD
 Sample : MDL07
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleID :
 MDL-WATER-02

Quant Time: Sep 25 09:42:06 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

					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	3.88	63	5662	0.884 ug/L	92
20) cis-1,2-Dichloroethene	4.68	96	7204	2.155 ug/L	89
23) Bromochloromethane	5.00	128	4073	2.324 ug/L	88

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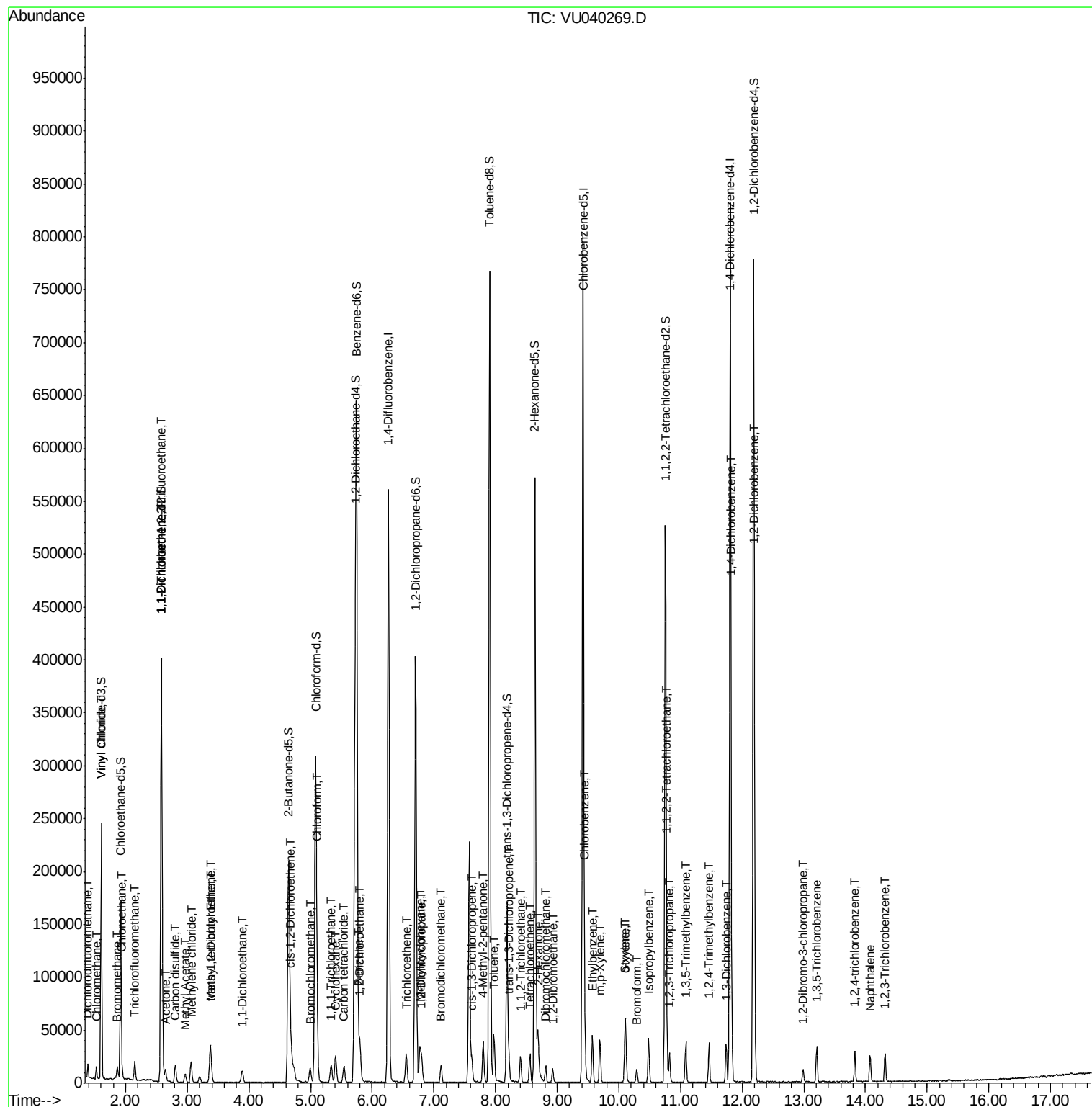
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Chloroform	5.11	83	20920	3.234	ug/L	99
27) 1,2-Dichloroethane	5.81	62	12769	2.334	ug/L	97
29) Cyclohexane	5.40	56	10782	1.933	ug/L	95
30) 1,1,1-Trichloroethane	5.34	97	12054	2.279	ug/L #	82
31) Carbon tetrachloride	5.54	117	10201	2.231	ug/L	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

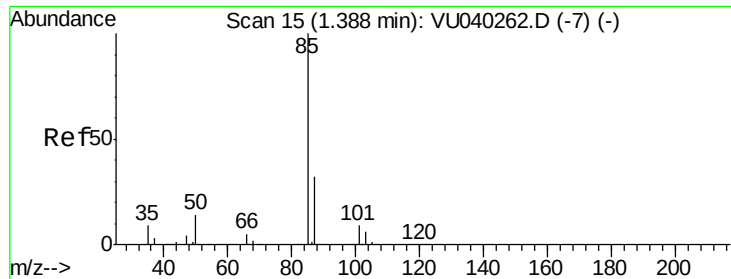
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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 :

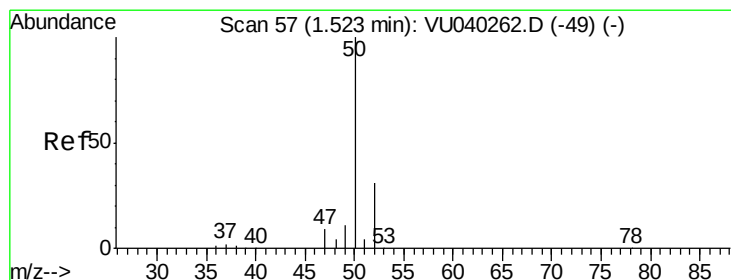
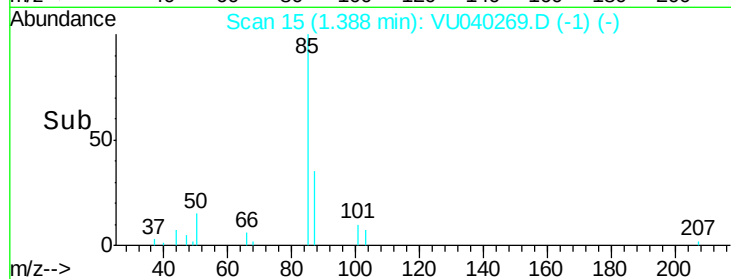
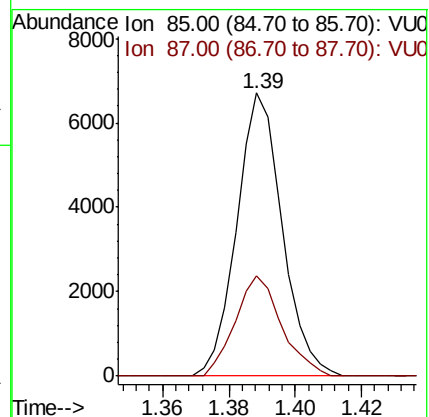
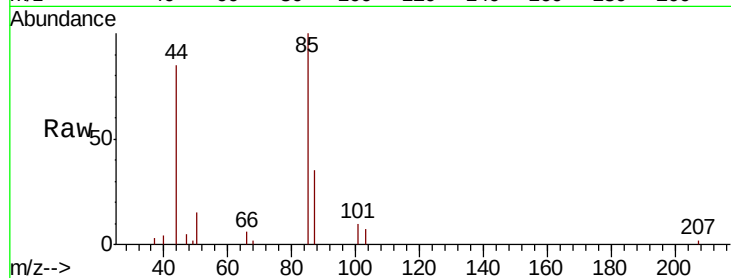
MDL-WATER-02

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

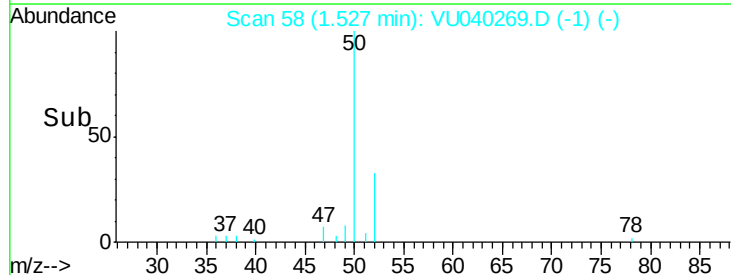
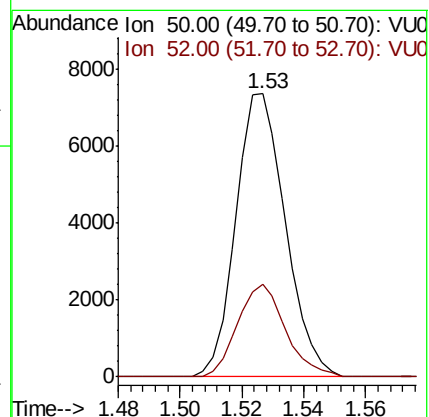
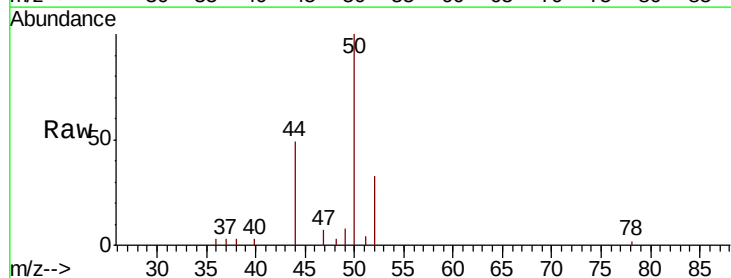
Acq: 24 Sep 2020 13:27

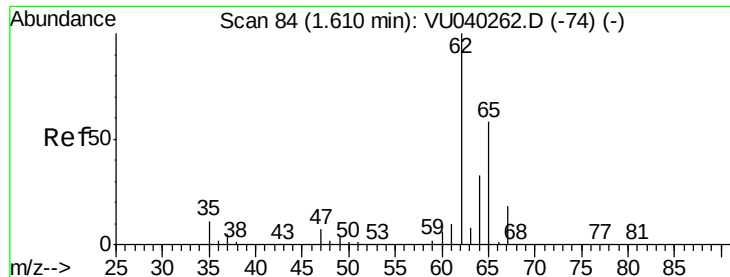
Tgt Ion: 50 Resp: 8197

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 :

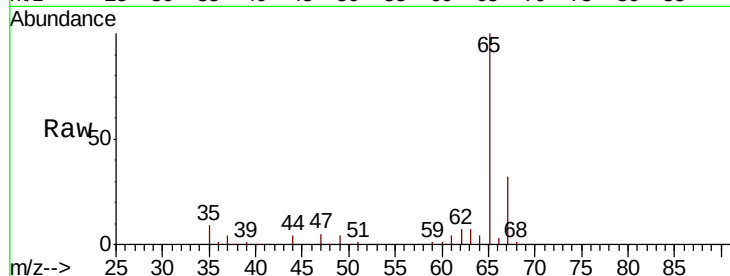
MDL-WATER-02

Tot Ion: 62 Resp: 8083

Ion Ratio Lower Upper

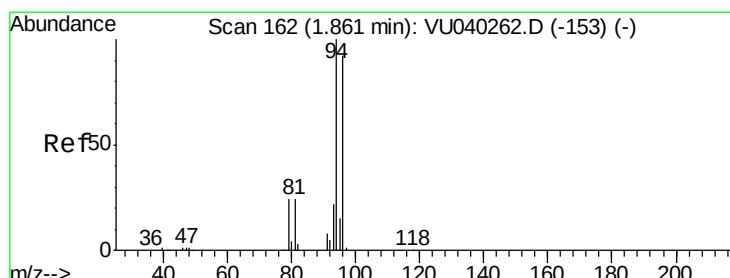
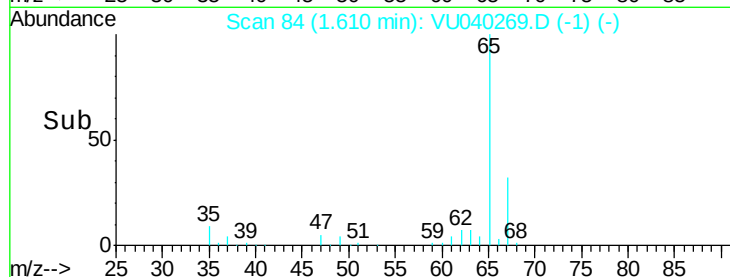
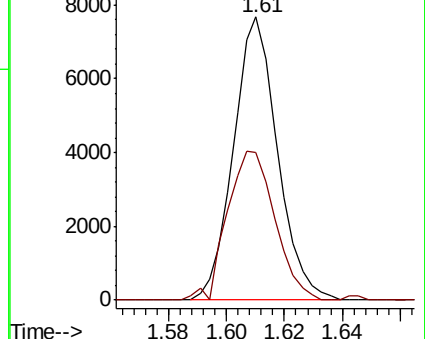
62 100

64 52.4 23.4 43.4#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 2.011 ug/L

RT: 1.86 min Scan# 163

Delta R.T. 0.00 min

Lab File: VU040269.D

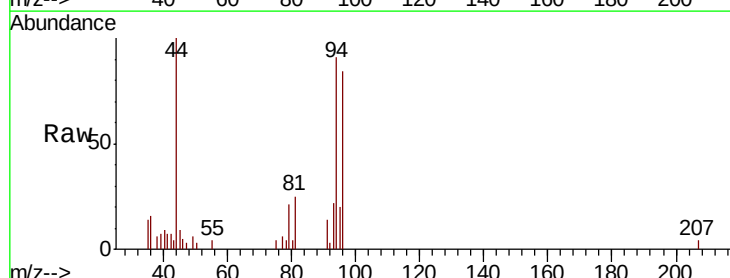
Acq: 24 Sep 2020 13:27

Tgt Ion: 94 Resp: 3721

Ion Ratio Lower Upper

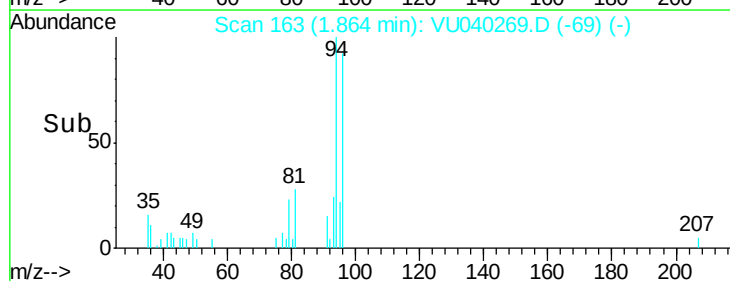
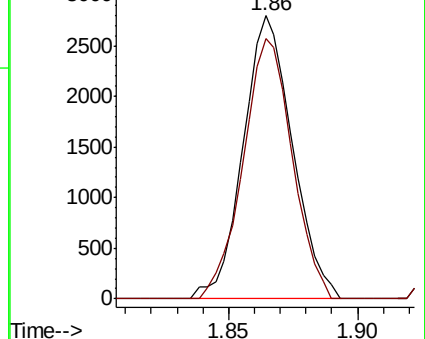
94 100

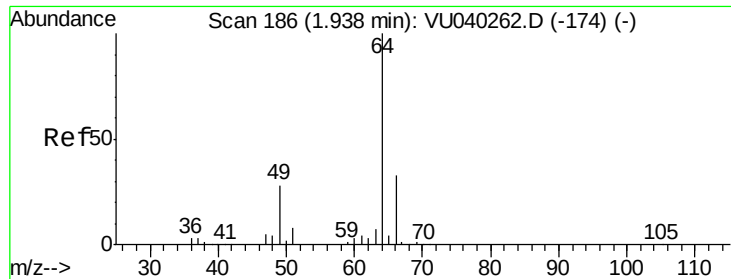
96 92.0 64.7 120.1



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#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 :

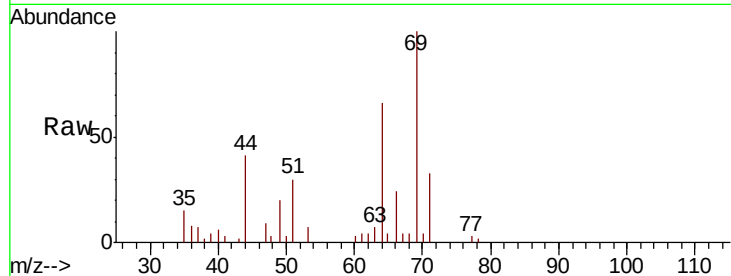
MDL-WATER-02

Tot Ion: 64 Resp: 5401

Ion Ratio Lower Upper

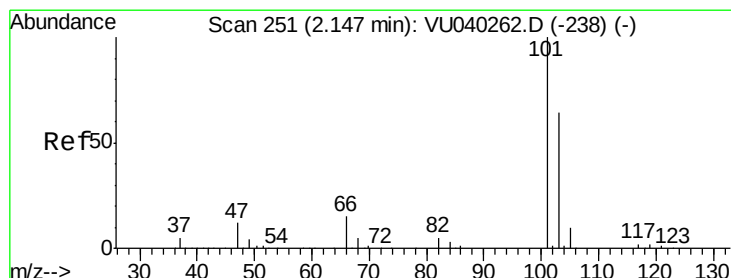
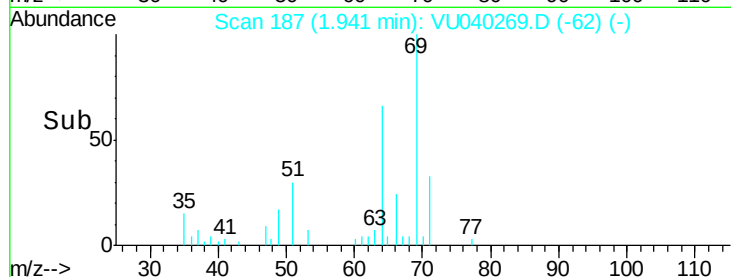
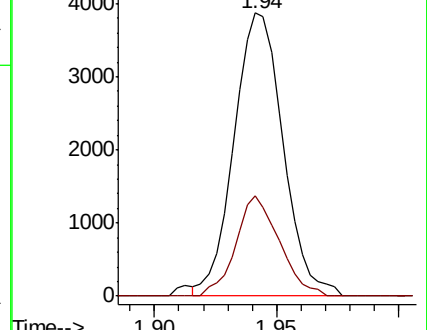
64 100

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

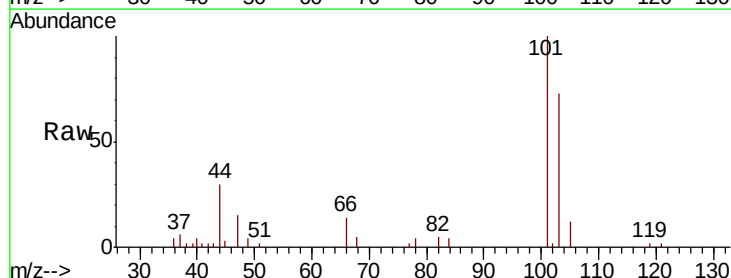
Acq: 24 Sep 2020 13:27

Tgt Ion: 101 Resp: 9997

Ion Ratio Lower Upper

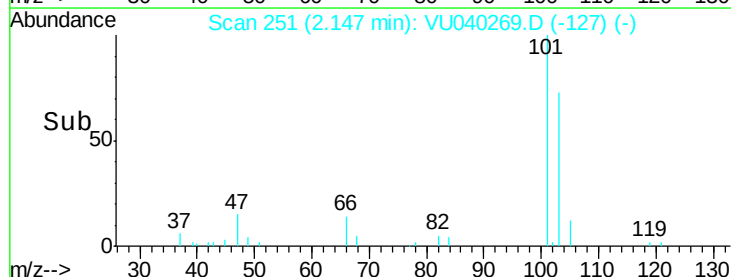
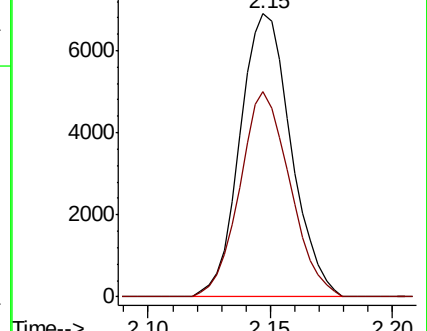
101 100

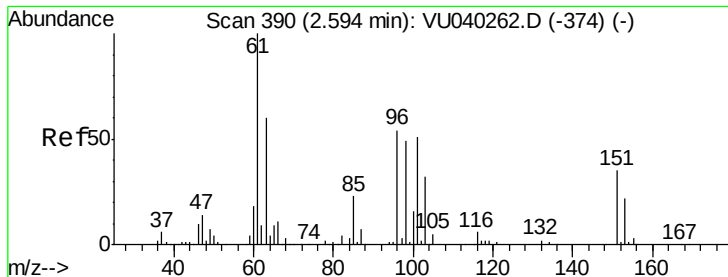
103 71.2 50.9 76.3



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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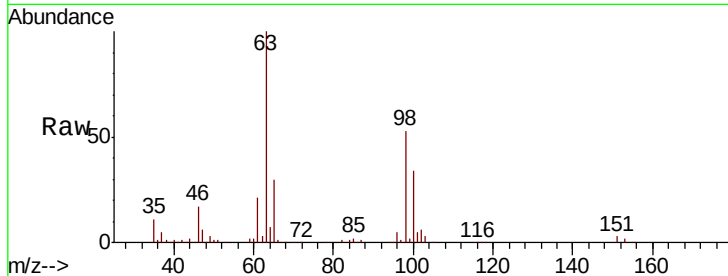
Tot Ion:101 Resp: 8466

Ion Ratio Lower Upper

101 100

85 35.6 36.0 54.0#

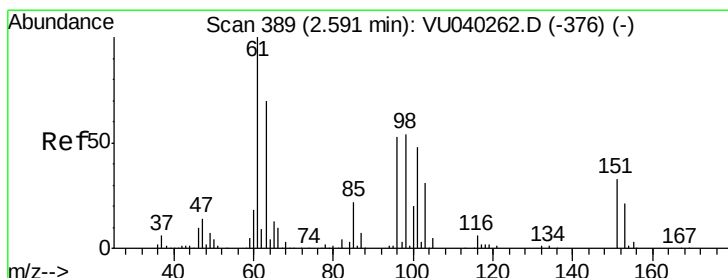
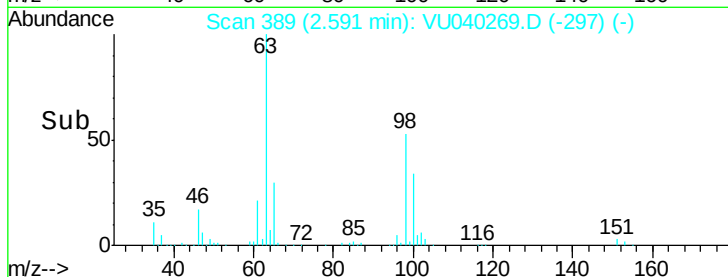
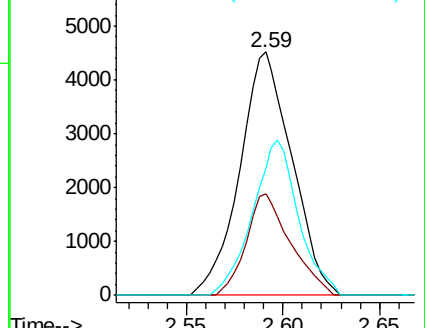
151 56.0 54.5 81.7



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

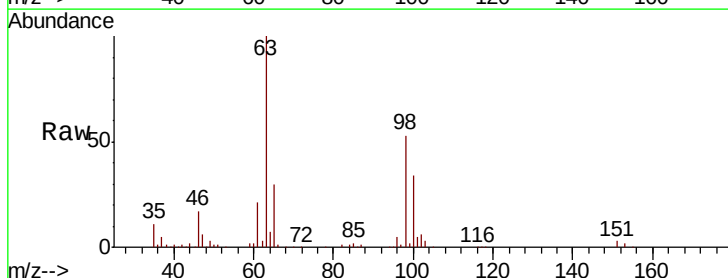
Tgt Ion: 96 Resp: 7793

Ion Ratio Lower Upper

96 100

61 400.5 131.8 244.8#

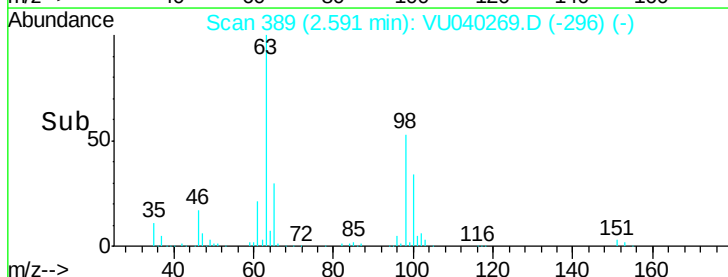
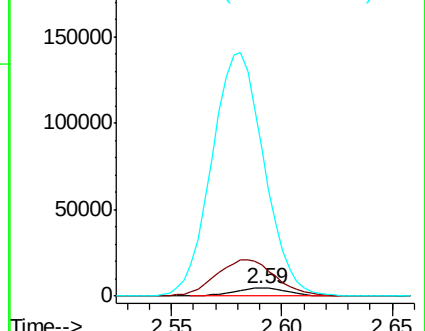
63 1890.4 94.1 174.7#

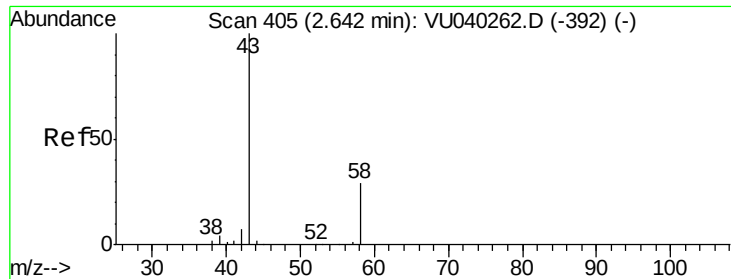


Abundance Ion 96.00 (95.70 to 96.70): VU0

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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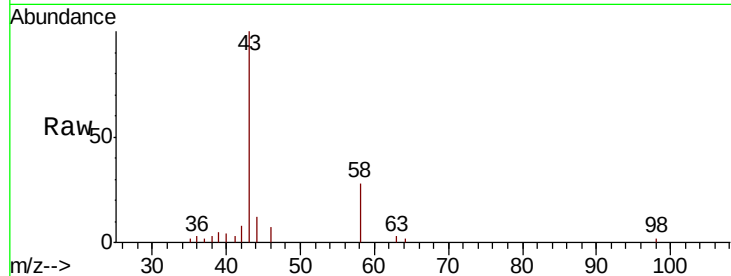
MDL-WATER-02

Tot Ion: 43 Resp: 14248

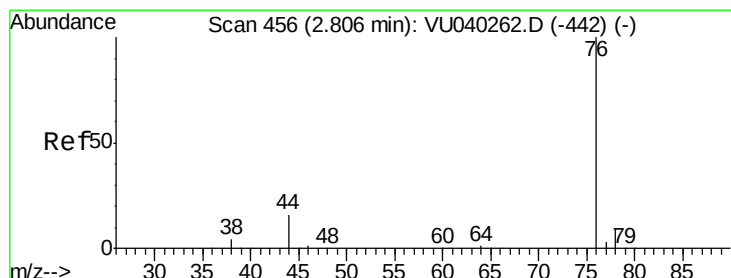
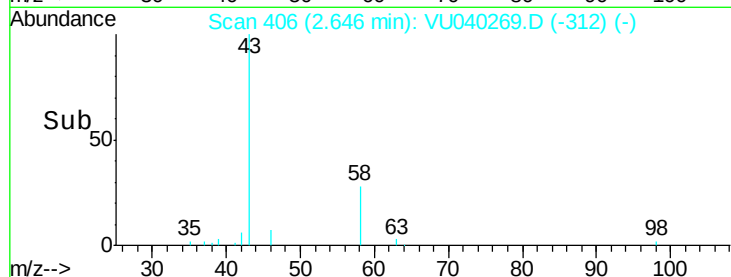
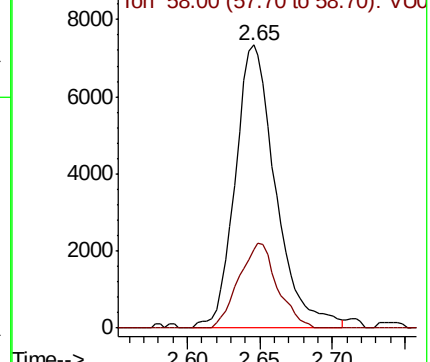
Ion Ratio Lower Upper

43 100

58 28.6 0.0 58.2



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



#14

Carbon disulfide

Concen: 2.277 ug/L

RT: 2.81 min Scan# 456

Delta R.T. 0.00 min

Lab File: VU040269.D

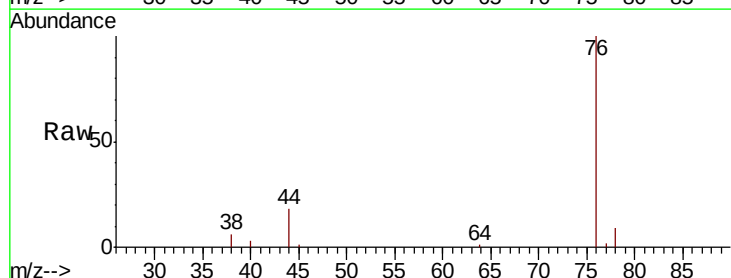
Acq: 24 Sep 2020 13:27

Tgt Ion: 76 Resp: 21391

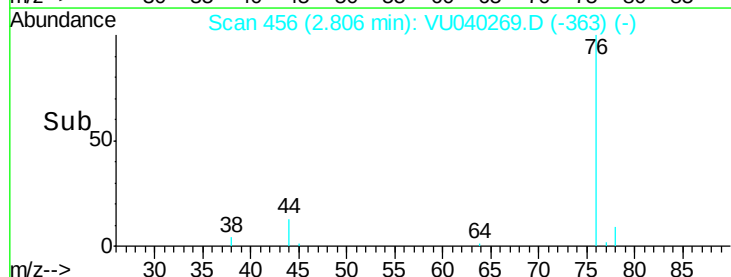
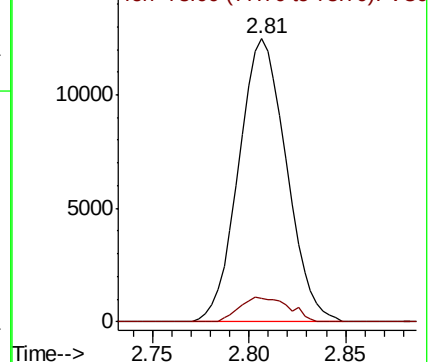
Ion Ratio Lower Upper

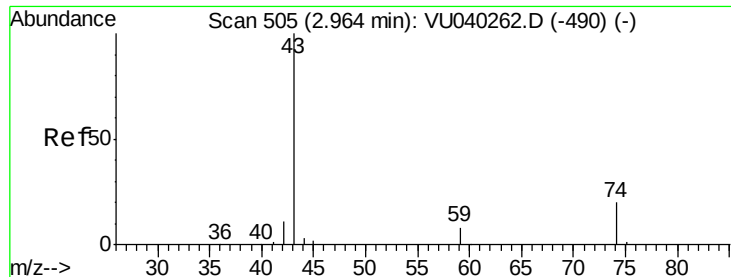
76 100

78 8.5 7.4 11.2



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





#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 :

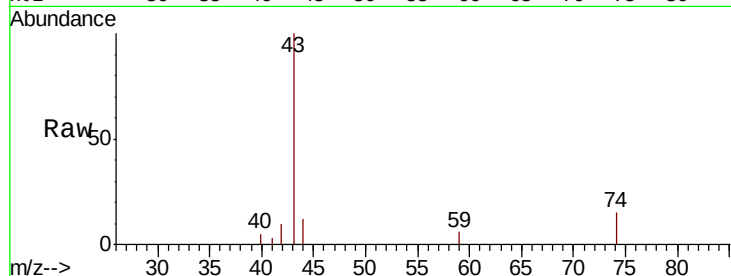
MDL-WATER-02

Tot Ion: 43 Resp: 10795

Ion Ratio Lower Upper

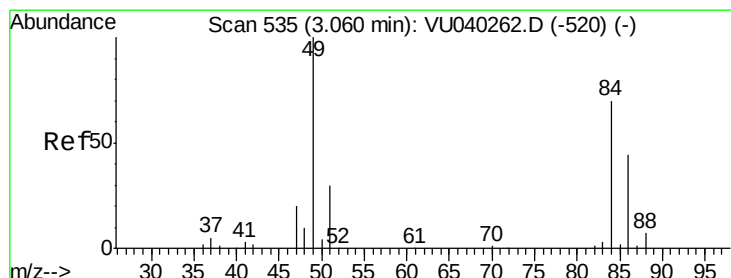
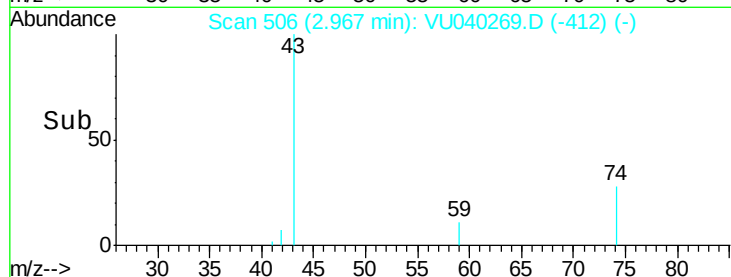
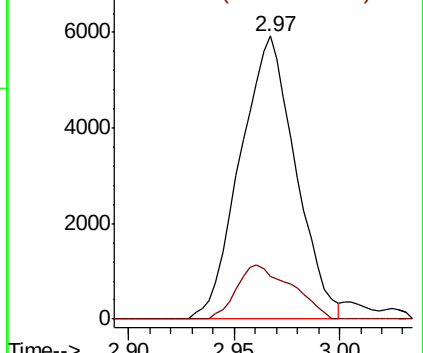
43 100

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

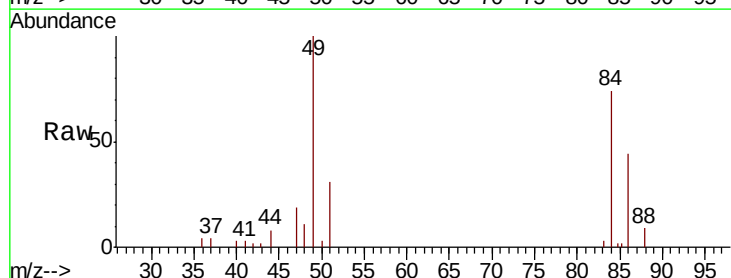
Tgt Ion: 84 Resp: 8306

Ion Ratio Lower Upper

84 100

86 60.0 43.9 81.5

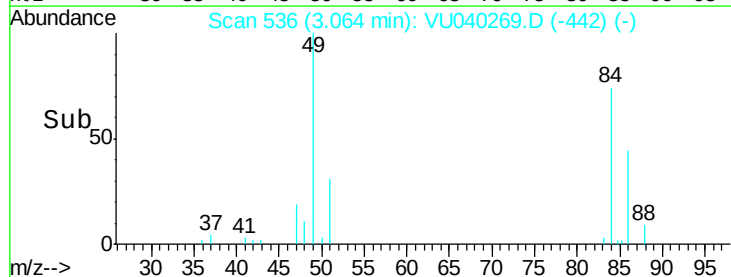
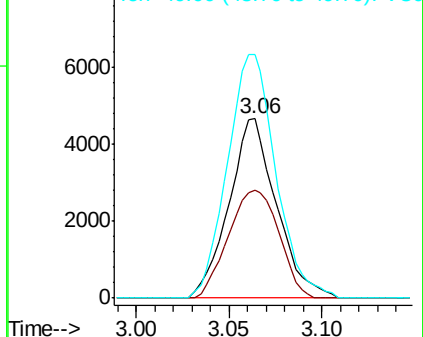
49 135.9 99.7 185.1

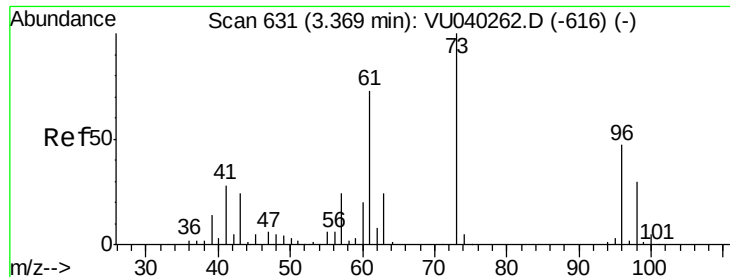


Abundance Ion 84.00 (83.70 to 84.70): VU0

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

ClientSampled :

MDL-WATER-02

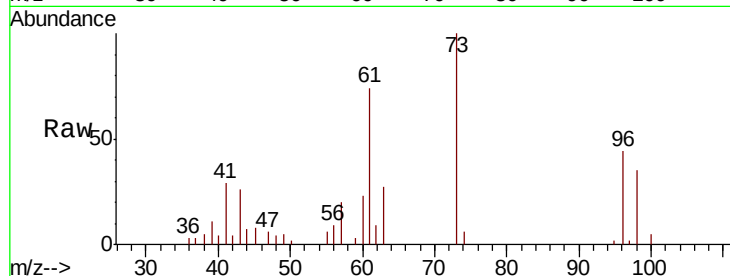
Tot Ion: 96 Resp: 6528

Ion Ratio Lower Upper

96 100

61 166.9 108.1 200.9

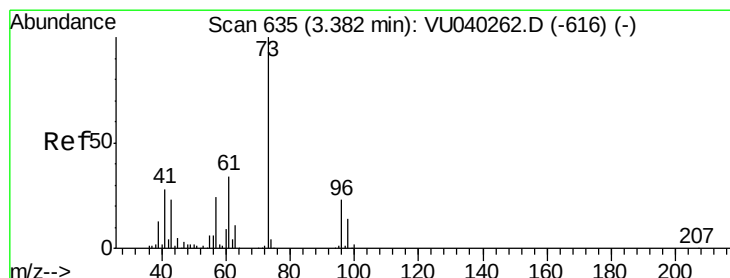
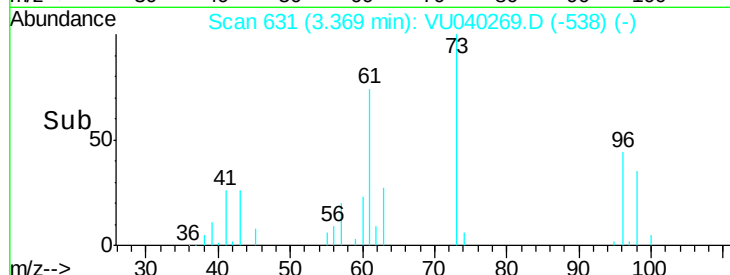
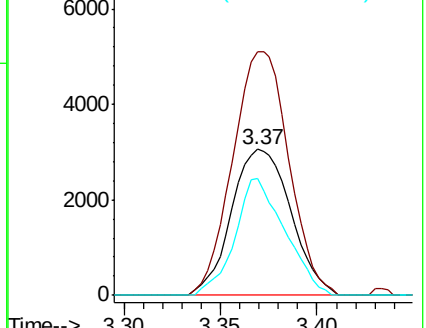
98 79.9 44.2 82.0



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

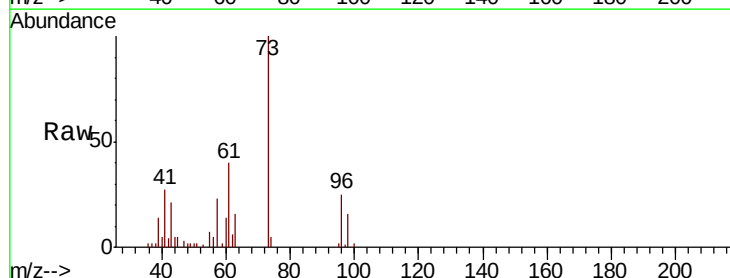
Tgt Ion: 73 Resp: 21599

Ion Ratio Lower Upper

73 100

43 22.9 18.5 27.7

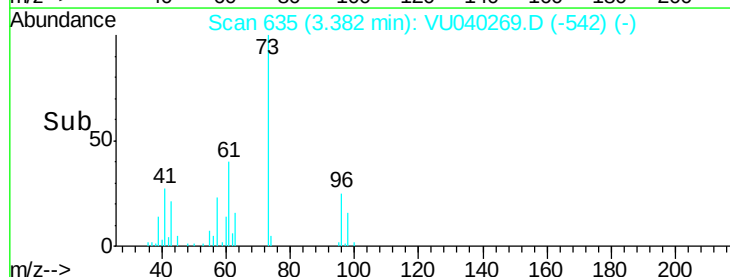
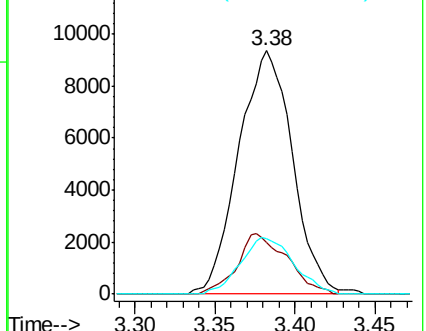
57 22.8 18.8 28.2

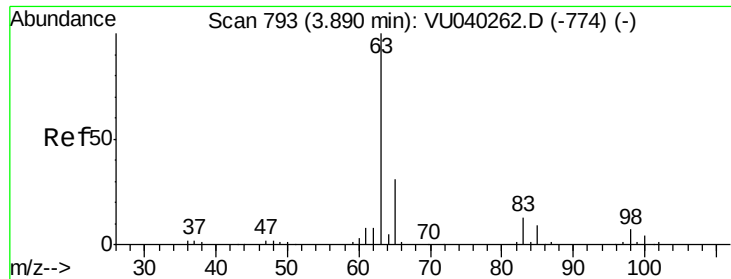


Abundance Ion 73.00 (72.70 to 73.70): VU040269.D (-542) (-)

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

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

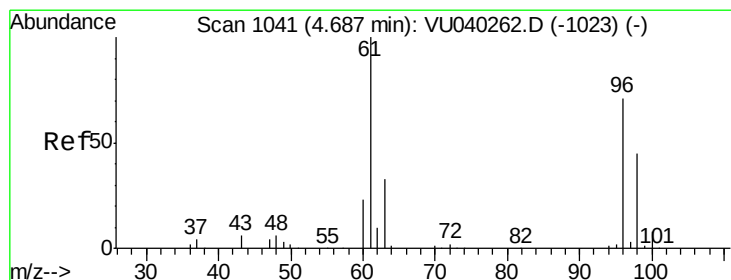
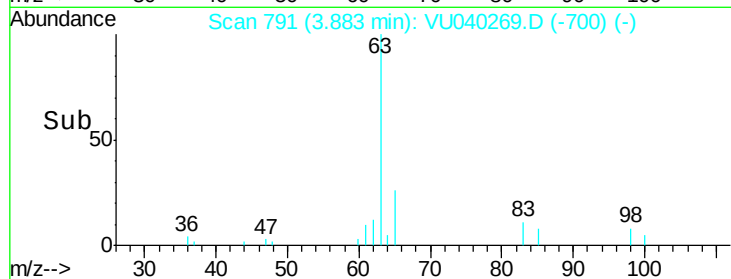
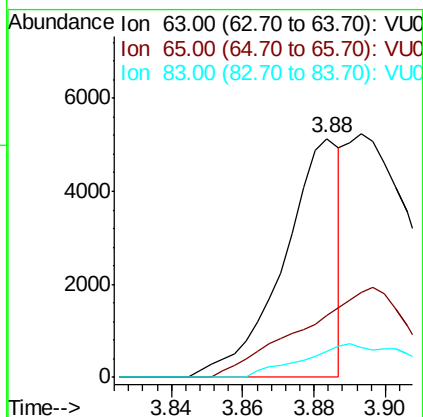
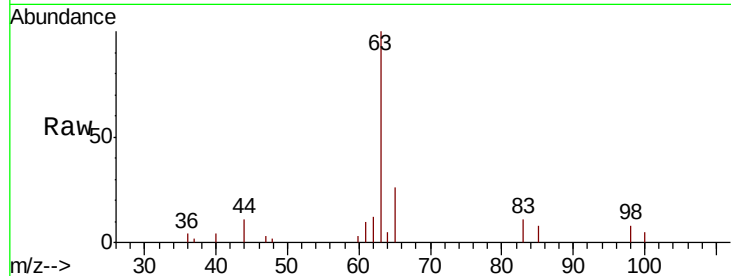




#19
 1,1-Dichloroethane
 Concen: 0.884 ug/L
 RT: 3.88 min Scan# 791
 Delta R.T. -0.01 min
 Lab File: VU040269.D
 Acq: 24 Sep 2020 13:27

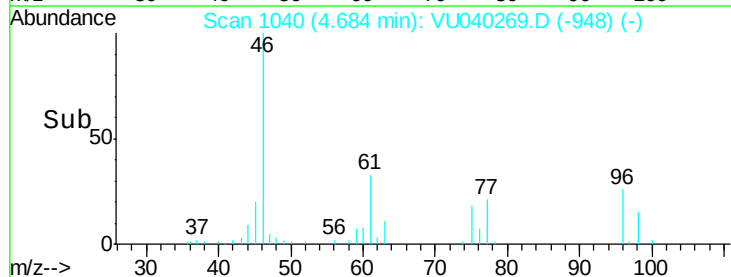
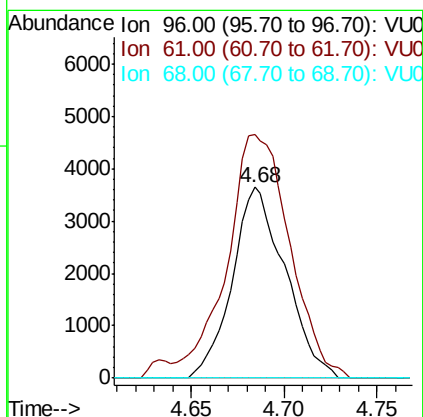
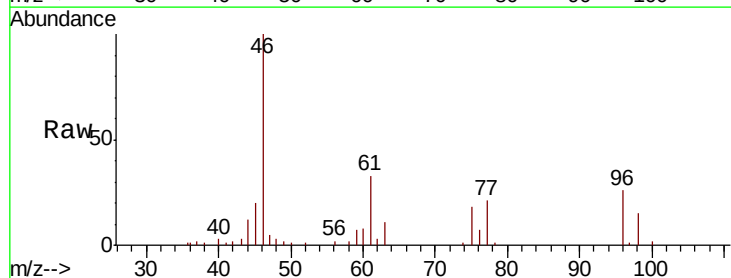
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-02

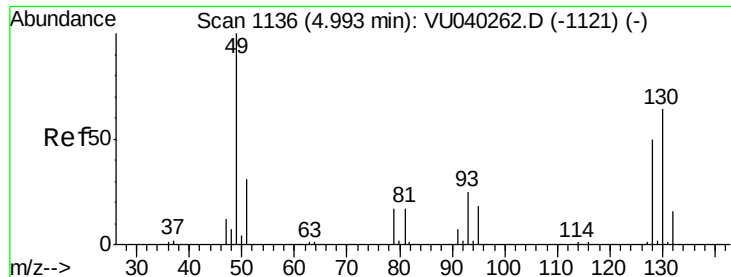
Tot Ion: 63 Resp: 5662
 Ion Ratio Lower Upper
 63 100
 65 26.1 22.0 40.8
 83 10.7 8.9 16.5



#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

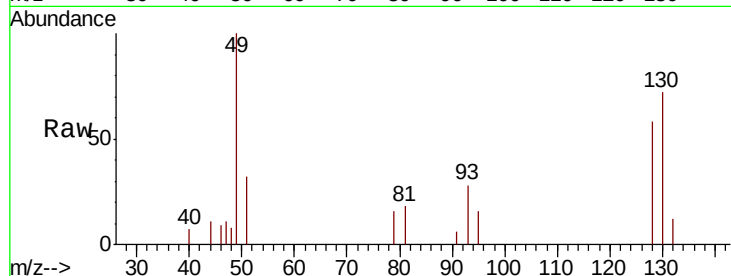




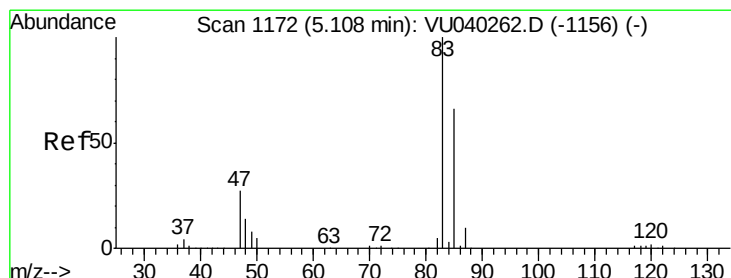
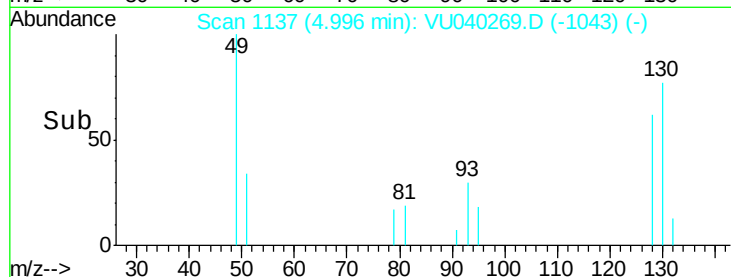
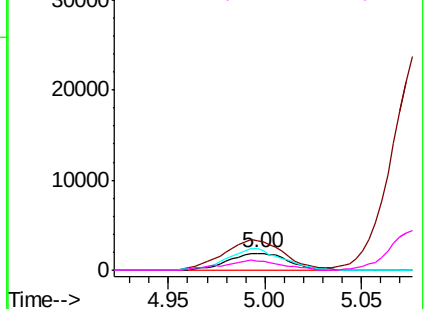
#23
Bromochloromethane
Concen: 2.324 ug/L
RT: 5.00 min Scan# 1137
Delta R.T. 0.00 min
Lab File: VU040269.D
Acq: 24 Sep 2020 13:27

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-02

Tot 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

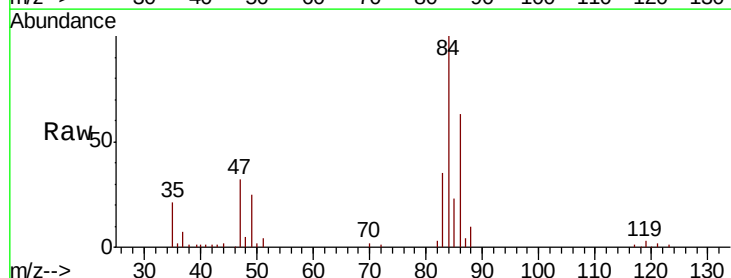


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VU0
Ion 130.00 (129.70 to 130.70): V
Ion 51.00 (50.70 to 51.70): VU0

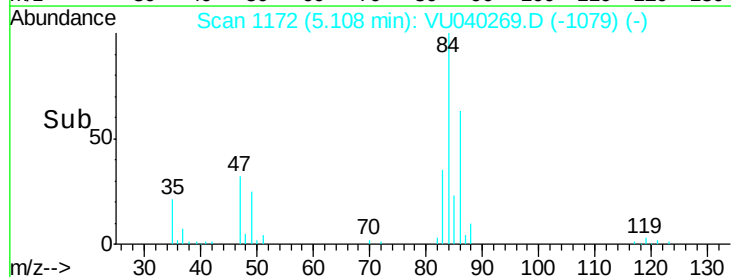
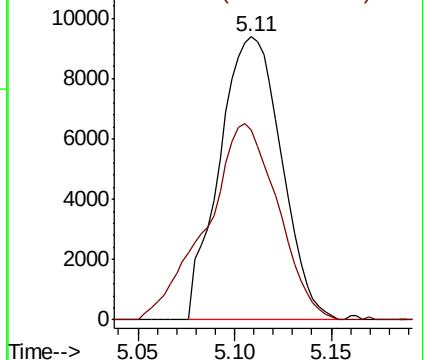


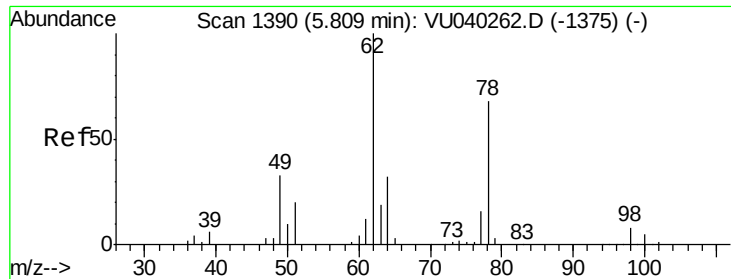
#25
Chloroform
Concen: 3.234 ug/L
RT: 5.11 min Scan# 1172
Delta R.T. 0.00 min
Lab File: VU040269.D
Acq: 24 Sep 2020 13:27

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



Abundance Ion 83.00 (82.70 to 83.70): VU0
Ion 85.00 (84.70 to 85.70): VU0

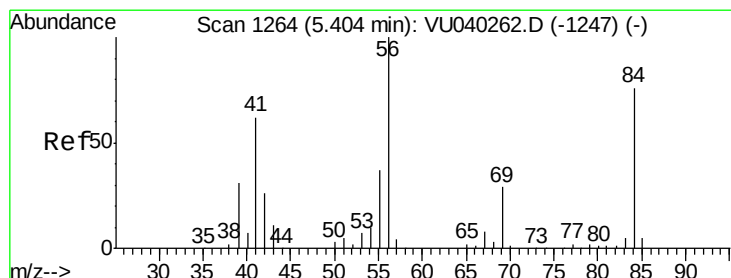
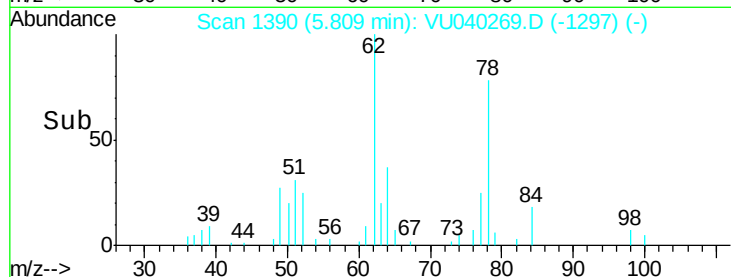
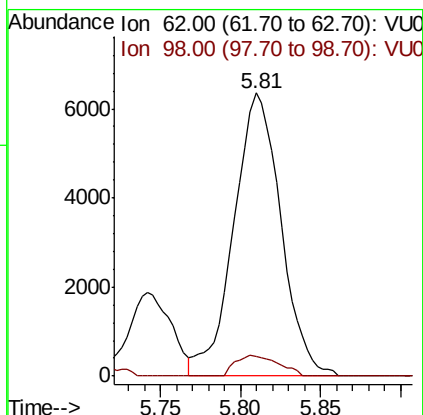
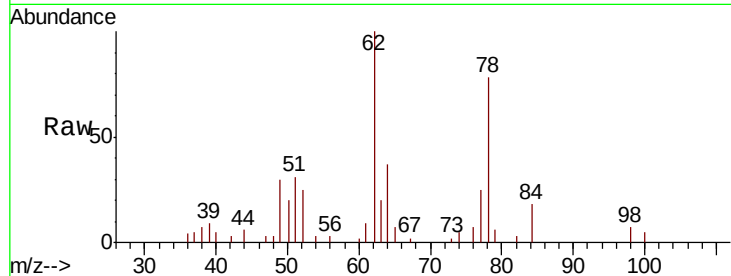




#27
 1,2-Dichloroethane
 Concen: 2.334 ug/L
 RT: 5.81 min Scan# 1390
 Delta R.T. 0.00 min
 Lab File: VU040269.D
 Acq: 24 Sep 2020 13:27

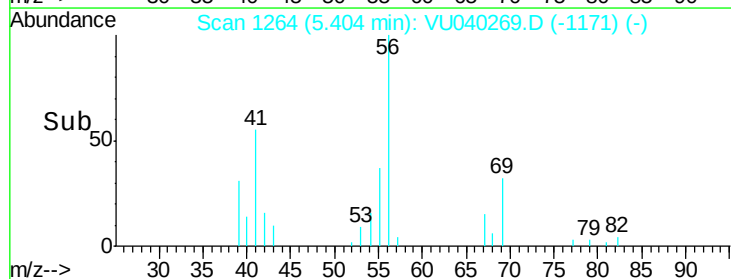
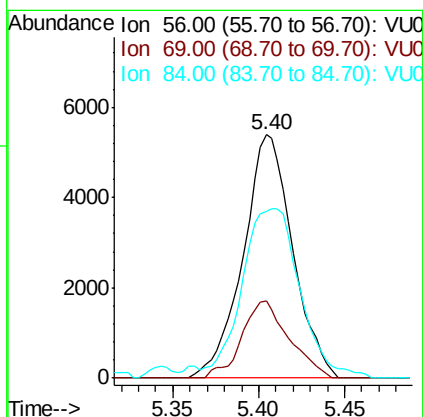
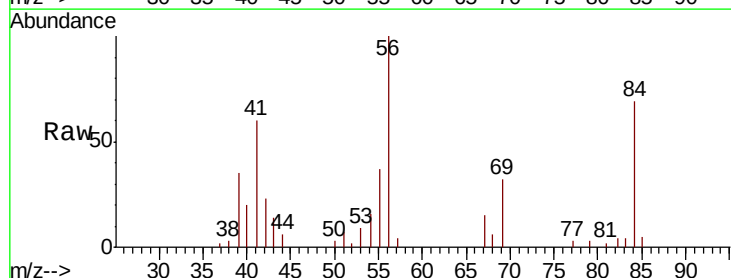
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-02

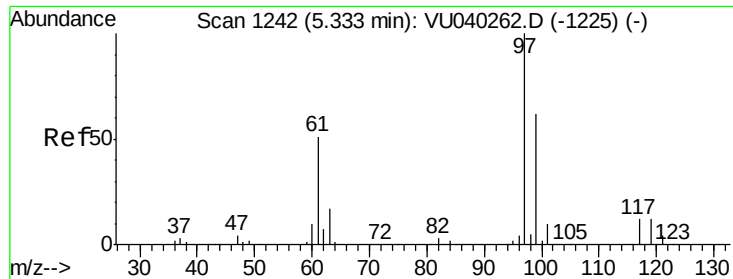
Tot Ion: 62 Resp: 12769
 Ion Ratio Lower Upper
 62 100
 98 7.2 6.5 9.7



#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

Tgt Ion: 56 Resp: 10782
 Ion Ratio Lower Upper
 56 100
 69 30.3 22.6 33.8
 84 81.6 61.9 92.9

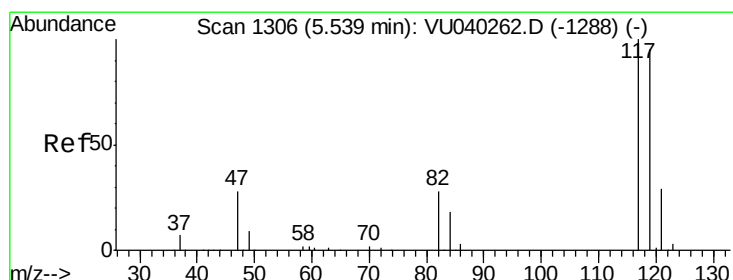
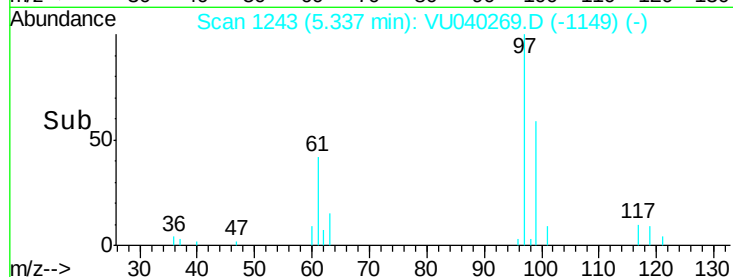
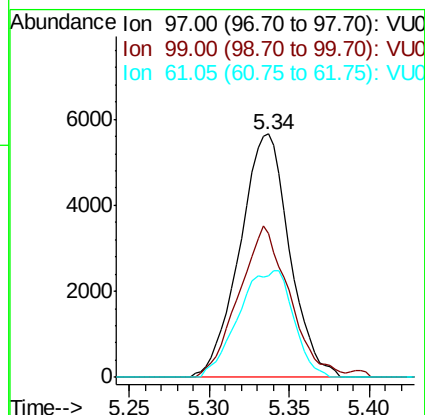
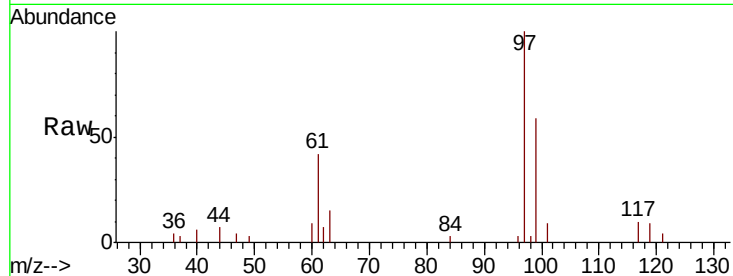




#30
 1,1,1-Trichloroethane
 Concen: 2.279 ug/L
 RT: 5.34 min Scan# 1243
 Delta R.T. 0.00 min
 Lab File: VU040269.D
 Acq: 24 Sep 2020 13:27

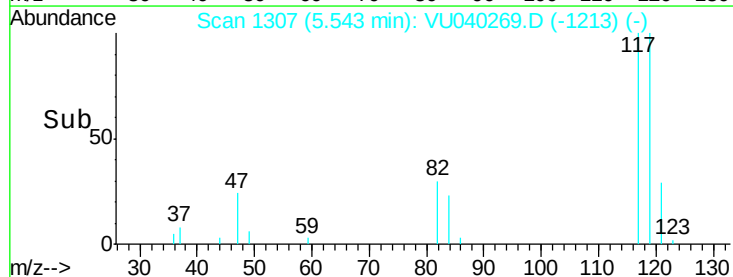
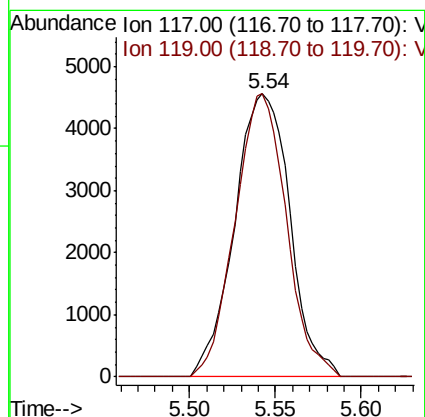
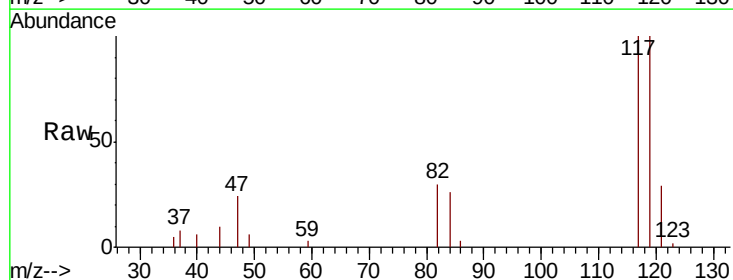
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-02

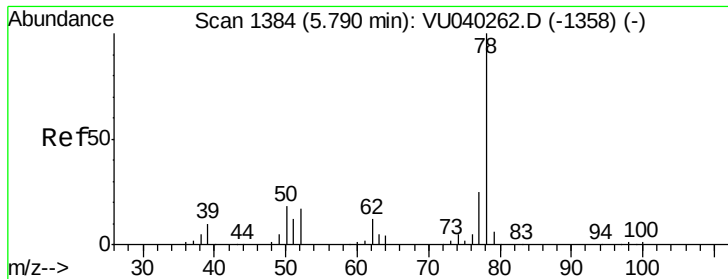
Tot Ion: 97 Resp: 12054
 Ion Ratio Lower Upper
 97 100
 99 61.8 50.8 76.2
 61 24.2 40.2 60.4#



#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

Tgt Ion: 117 Resp: 10201
 Ion Ratio Lower Upper
 117 100
 119 92.5 77.4 116.2





#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

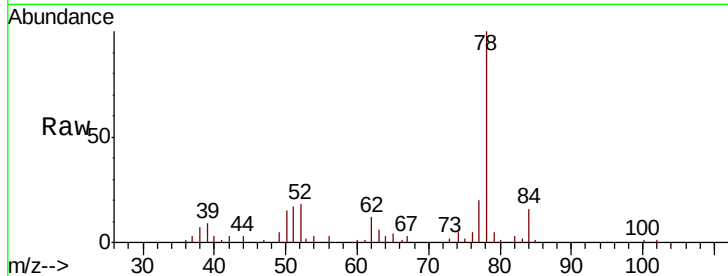
Instrument :

MSVOA_U

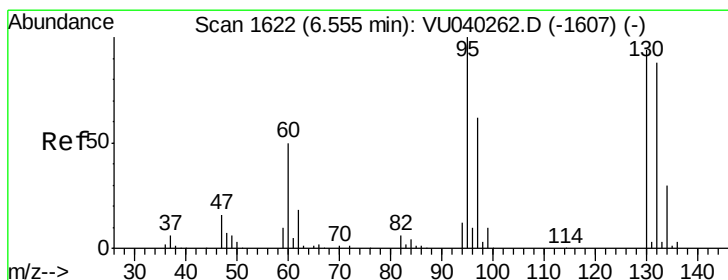
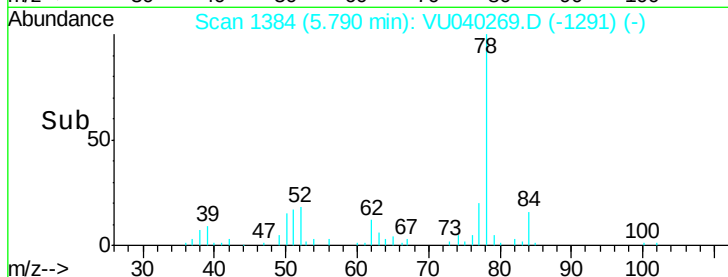
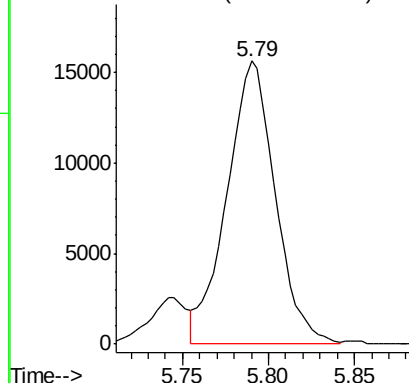
ClientSampleId :

MDL-WATER-02

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

Tgt Ion: 95 Resp: 7379

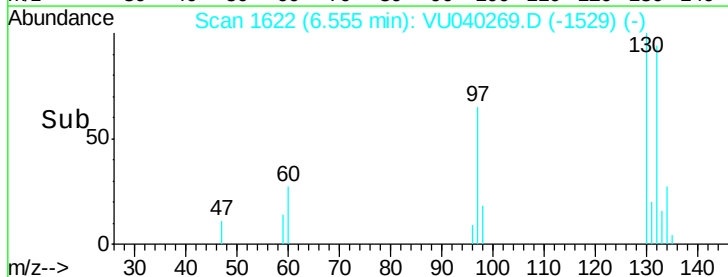
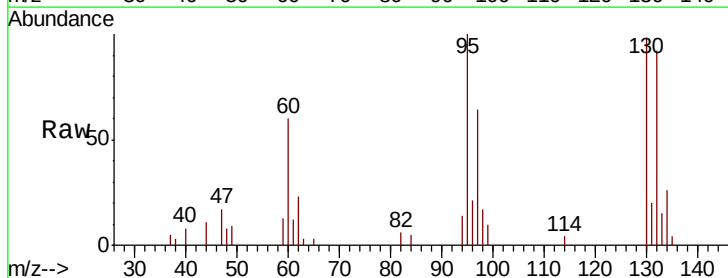
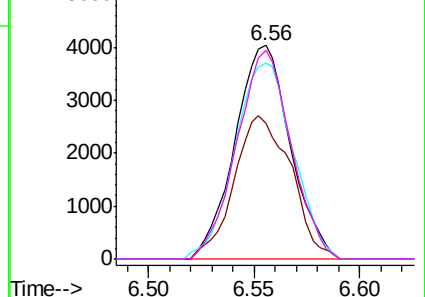
Ion	Ratio	Lower	Upper
95	100		
97	63.5	43.8	81.3
132	91.5	61.7	114.7
130	97.5	65.9	122.5

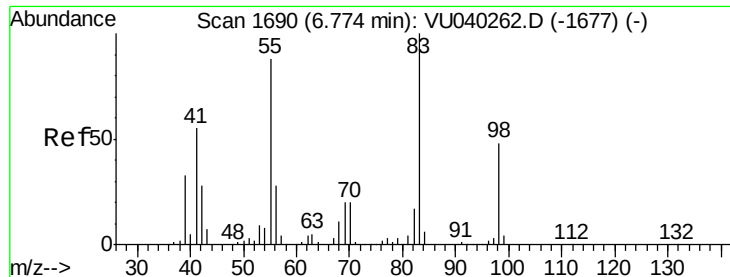
Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): VU0

Ion 130.00 (129.70 to 130.70): VU0

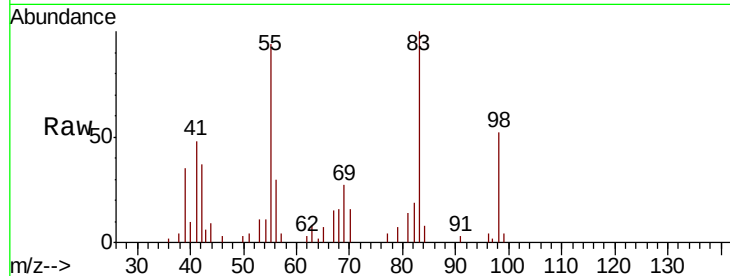




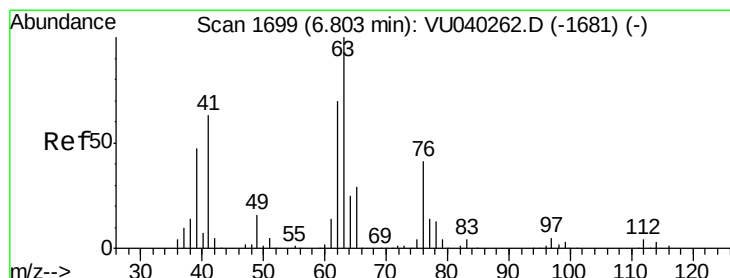
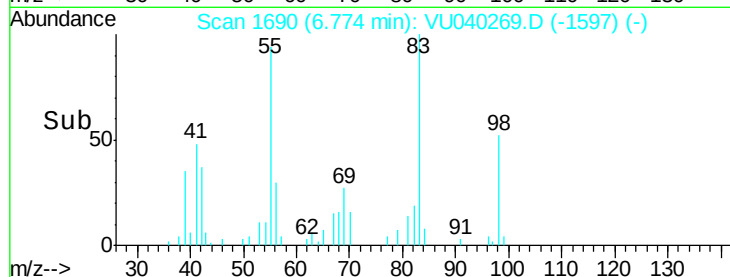
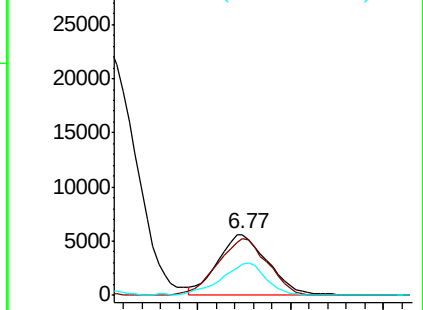
#35
Methylvlcyclohexane
Concen: 2.006 ug/L
RT: 6.77 min Scan# 1690
Delta R.T. 0.00 min
Lab File: VU040269.D
Acq: 24 Sep 2020 13:27

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-02

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

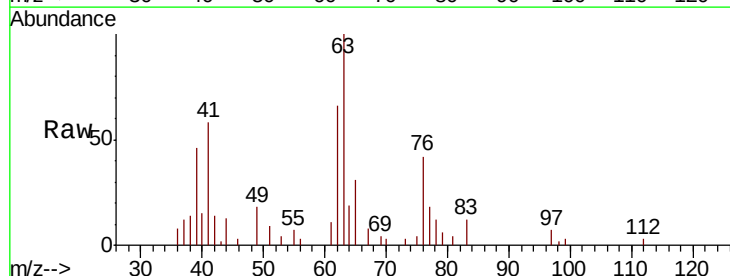


Abundance Ion 83.00 (82.70 to 83.70): VU0
Ion 55.00 (54.70 to 55.70): VU0
Ion 98.00 (97.70 to 98.70): VU0

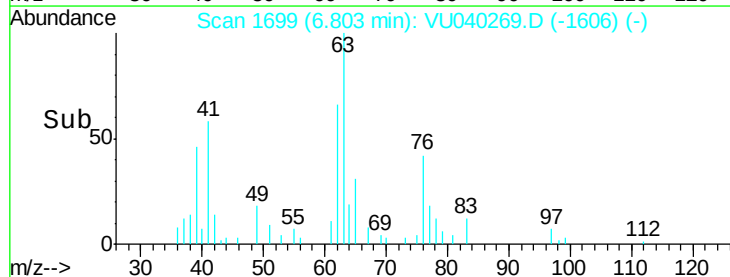
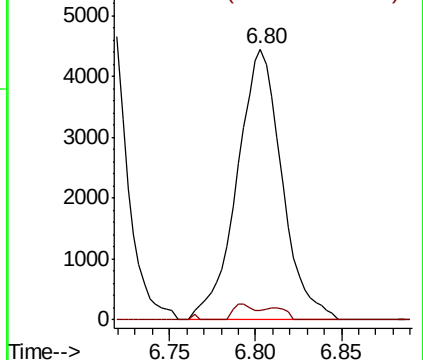


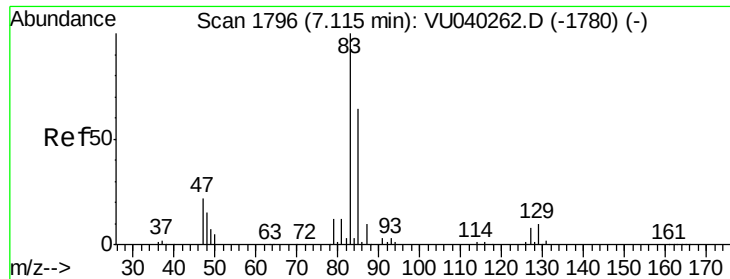
#37
1,2-Dichloropropane
Concen: 2.151 ug/L
RT: 6.80 min Scan# 1699
Delta R.T. 0.00 min
Lab File: VU040269.D
Acq: 24 Sep 2020 13:27

Tgt Ion: 63 Resp: 8065
Ion Ratio Lower Upper
63 100
112 2.5 3.1 4.7#



Abundance Ion 63.00 (62.70 to 63.70): VU0
Ion 112.00 (111.70 to 112.70): V





#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

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-02

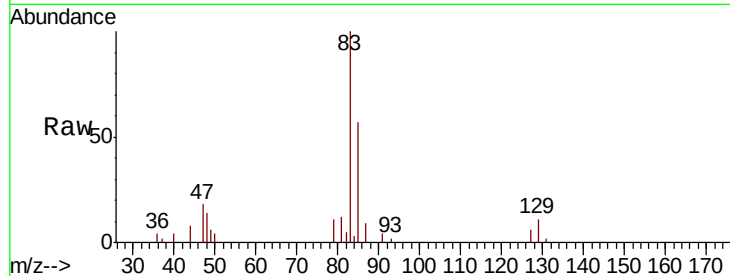
Tot Ion: 83 Resp: 10634

Ion Ratio Lower Upper

83 100

85 57.3 44.9 83.5

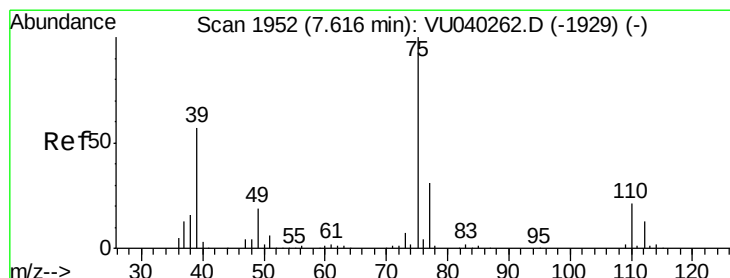
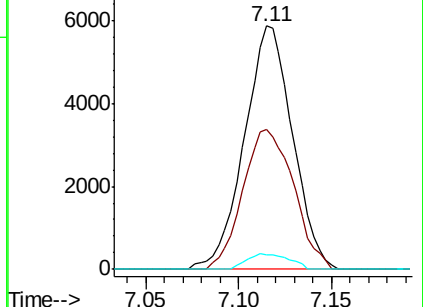
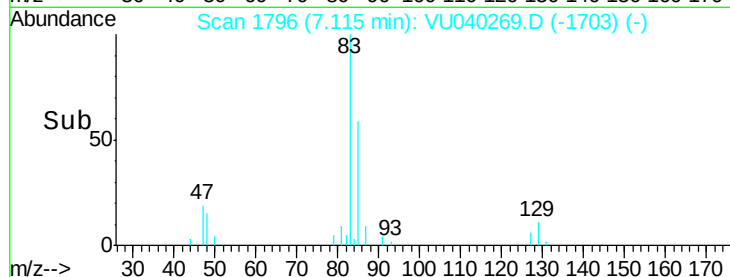
127 5.9 6.4 9.6#



Abundance Ion 83.00 (82.70 to 83.70): VU040269.D (-1703) (-)

Ion 85.00 (84.70 to 85.70): VU040269.D (-1703) (-)

Ion 127.00 (126.70 to 127.70): VU040269.D (-1703) (-)



#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

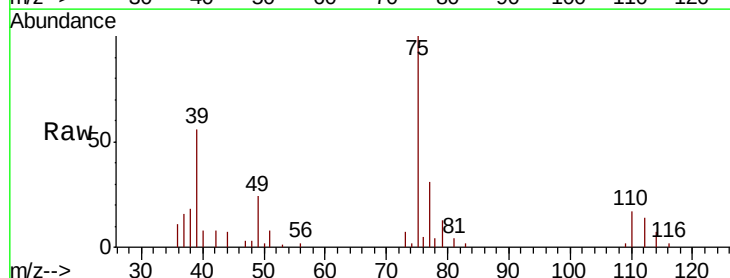
Acq: 24 Sep 2020 13:27

Tgt Ion: 75 Resp: 11023

Ion Ratio Lower Upper

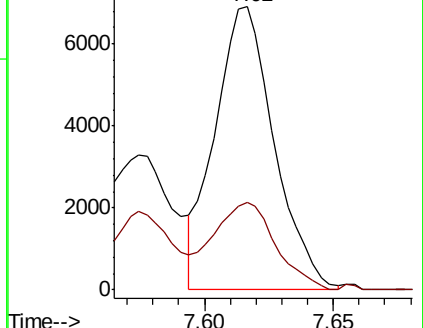
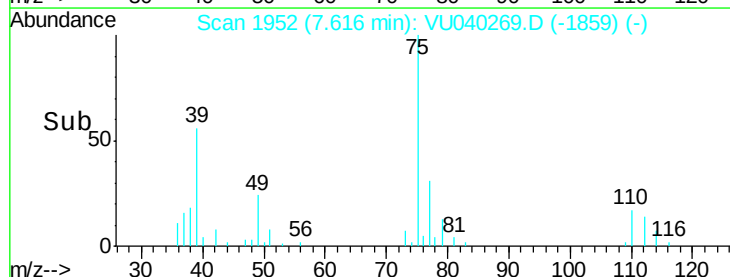
75 100

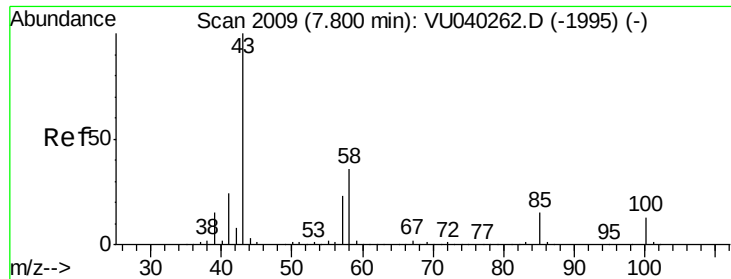
77 30.8 21.9 40.7



Abundance Ion 75.00 (74.70 to 75.70): VU040269.D (-1859) (-)

Ion 77.00 (76.70 to 77.70): VU040269.D (-1859) (-)

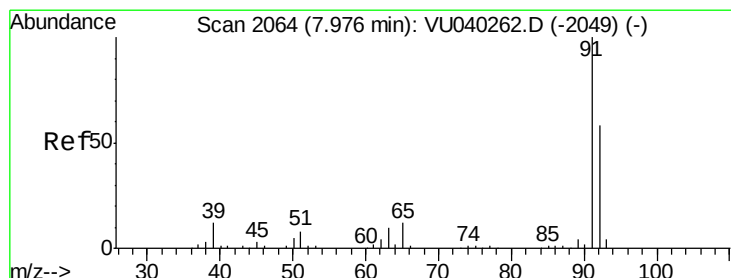
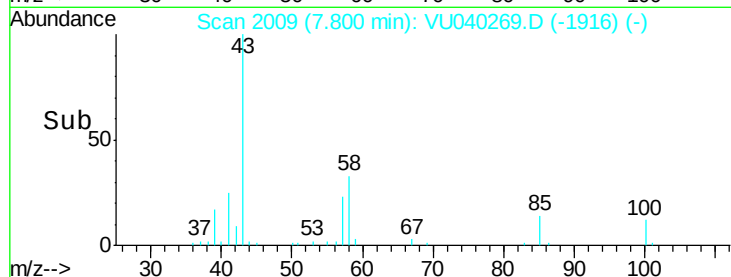
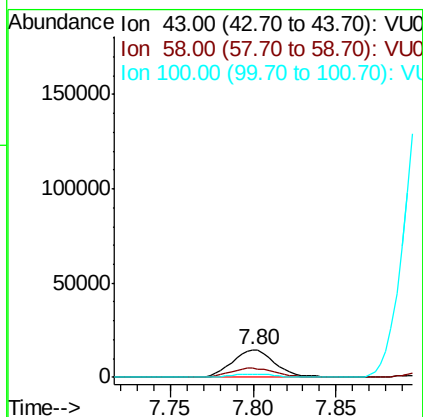
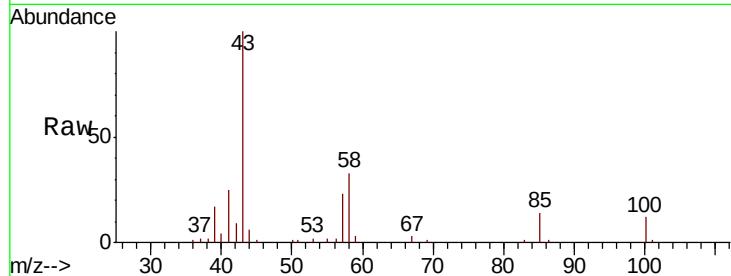




#40
4-Methyl-2-pentanone
Concen: 4.308 ug/L
RT: 7.80 min Scan# 2009
Delta R.T. 0.00 min
Lab File: VU040269.D
Acq: 24 Sep 2020 13:27

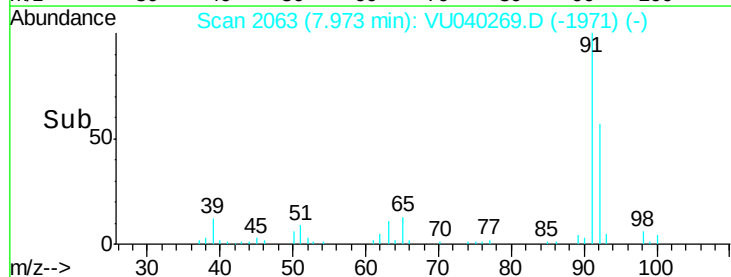
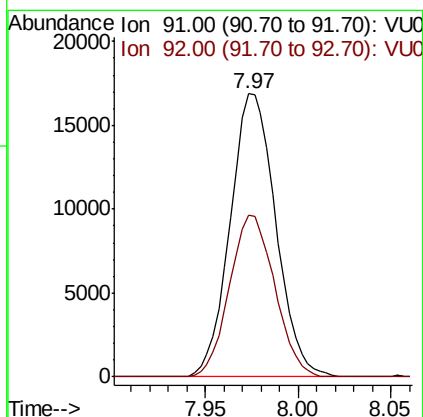
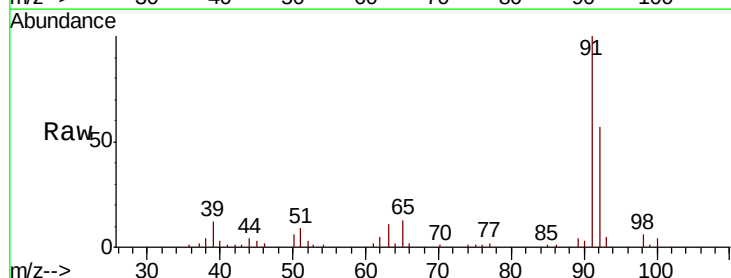
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-02

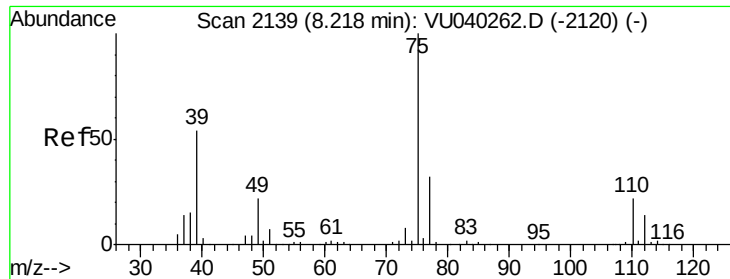
Tot Ion: 43 Resp: 26234
Ion Ratio Lower Upper
43 100
58 34.4 28.5 42.7
100 12.3 10.0 15.0



#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

Tgt Ion: 91 Resp: 28924
Ion Ratio Lower Upper
91 100
92 57.3 40.9 75.9

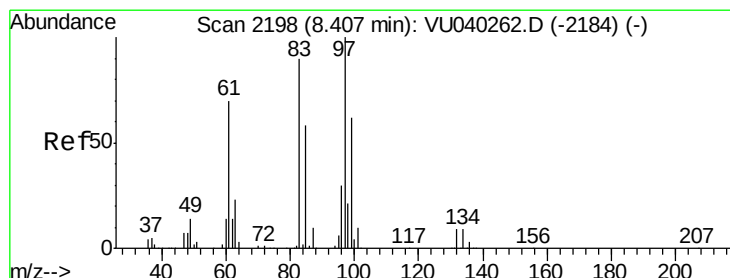
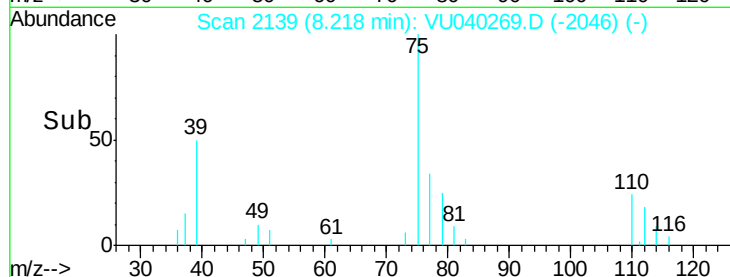
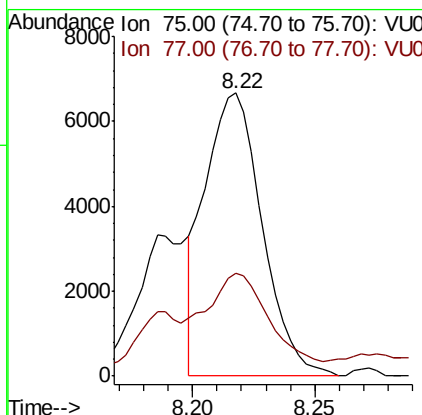
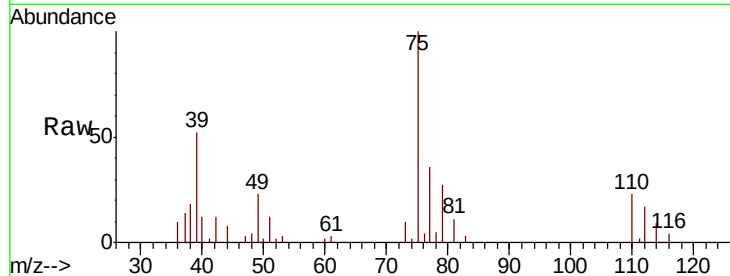




#44
trans-1,3-Dichloropropene
Concen: 1.989 ug/L
RT: 8.22 min Scan# 2139
Delta R.T. 0.00 min
Lab File: VU040269.D
Acq: 24 Sep 2020 13:27

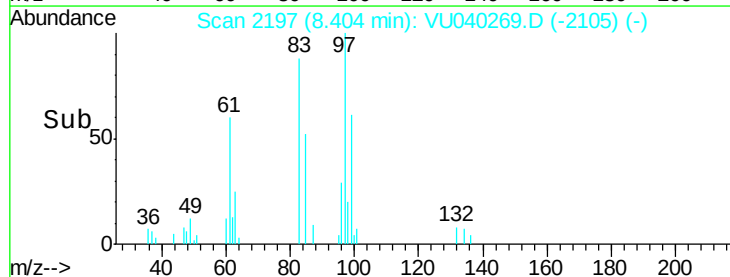
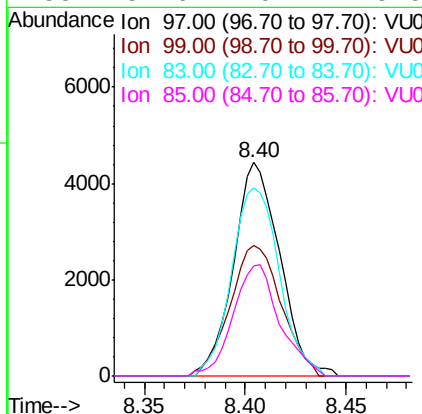
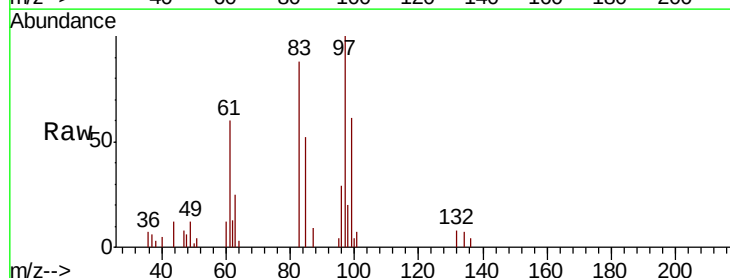
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-02

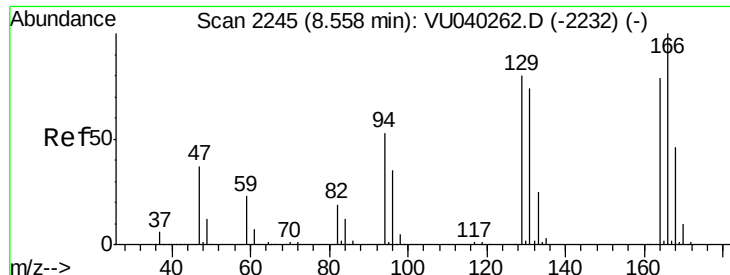
Tot Ion: 75 Resp: 10870
Ion Ratio Lower Upper
75 100
77 36.1 22.5 41.7



#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

Tgt 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





#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

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-02

Tot Ion:164 Resp: 5449

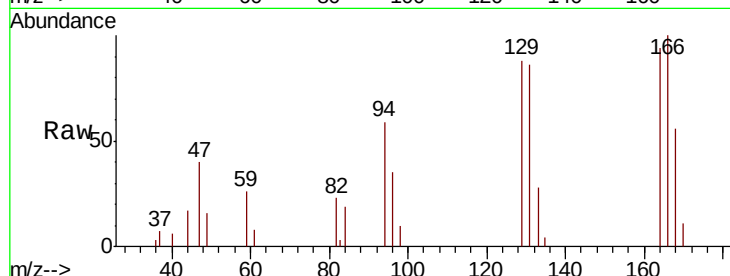
Ion Ratio Lower Upper

164 100

129 93.5 70.5 130.9

131 91.7 65.7 121.9

166 106.4 88.5 164.4

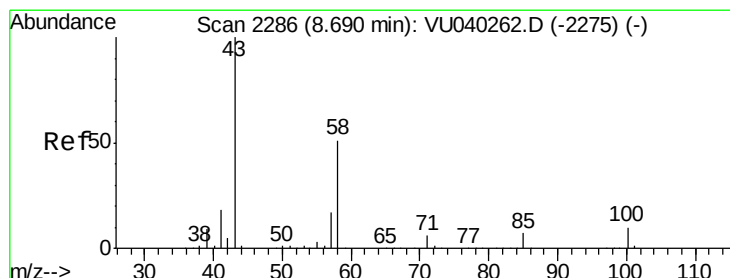
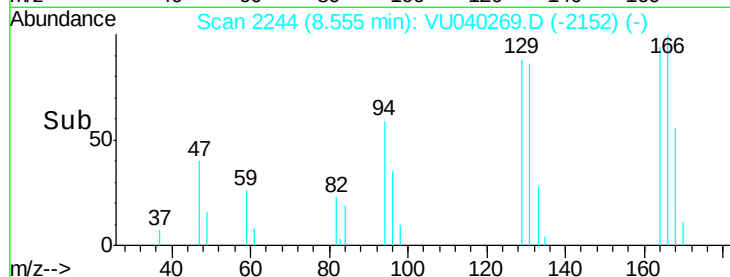
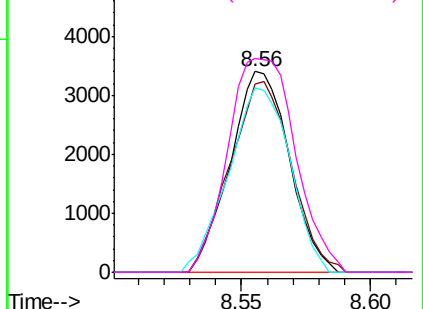


Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V



#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

Tgt Ion: 43 Resp: 28145

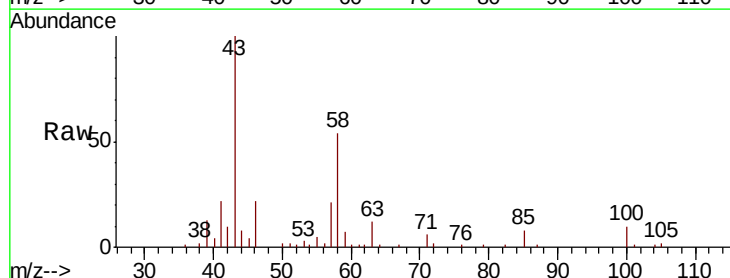
Ion Ratio Lower Upper

43 100

58 47.6 40.3 60.5

57 20.1 13.9 20.9

100 9.3 8.2 12.2

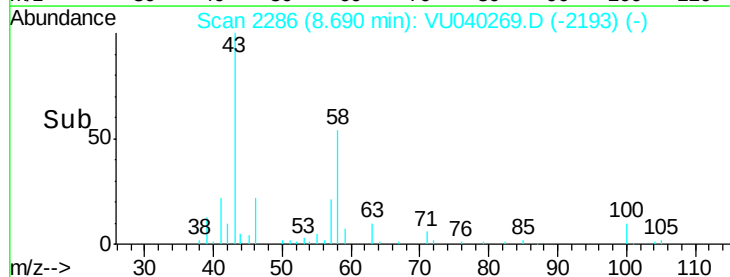
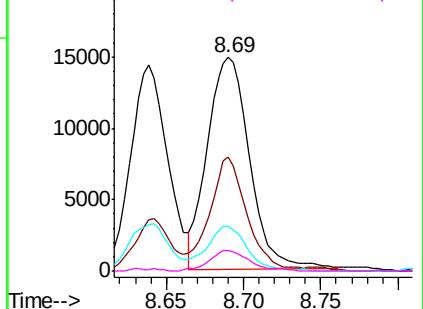


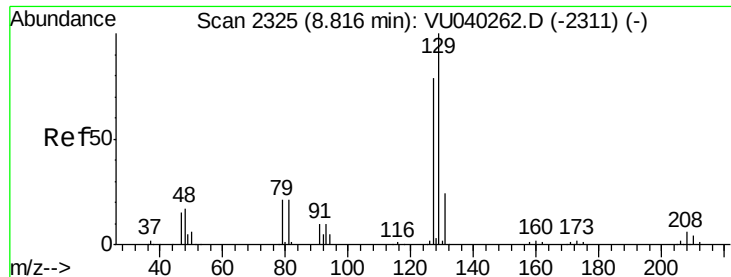
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

Ion 100.00 (99.70 to 100.70): VU0





#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

Instrument :

MSVOA_U

ClientSampleId :

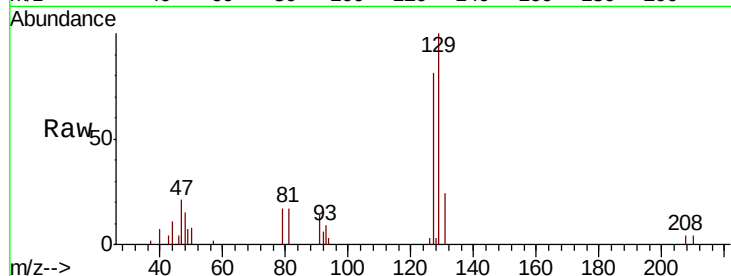
MDL-WATER-02

Tot 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): V

Ion 127.00 (126.70 to 127.70): V

8.81

5000

4000

3000

2000

1000

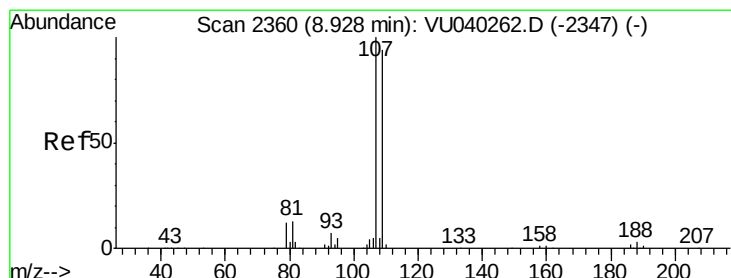
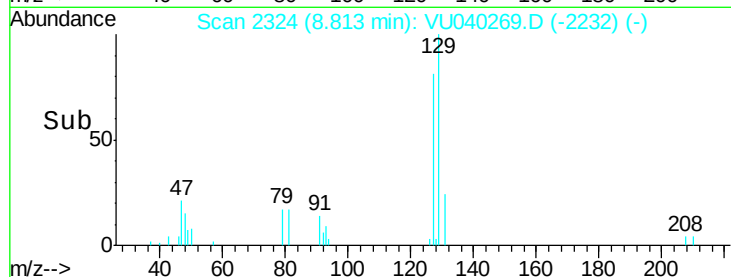
0

8.75

8.80

8.85

Time-->



#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

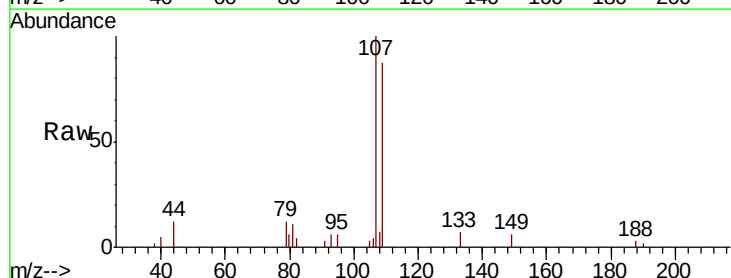
Tgt Ion:107 Resp: 7575

Ion Ratio Lower Upper

107 100

109 87.2 65.9 122.3

188 2.8 2.6 3.8



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V

8.93

6000

5000

4000

3000

2000

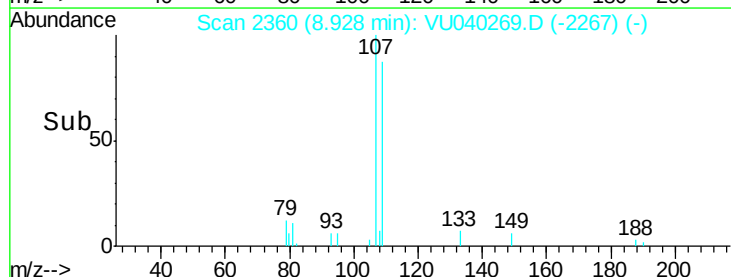
1000

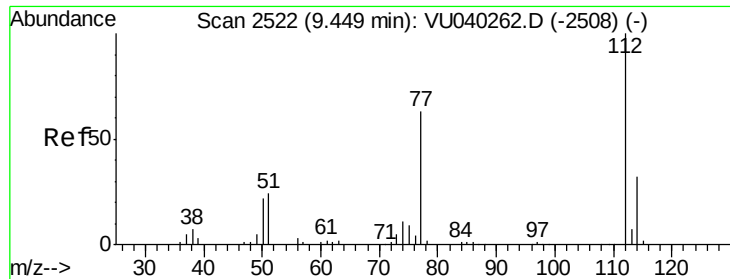
0

8.90

8.95

Time-->





#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

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-02

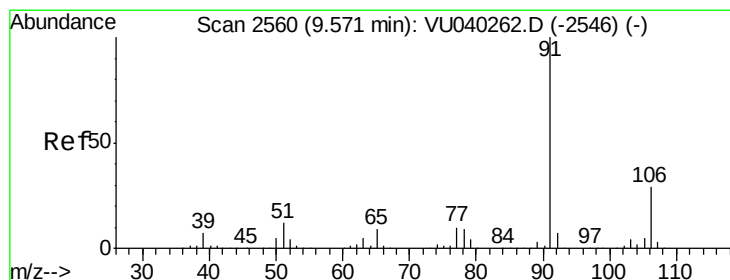
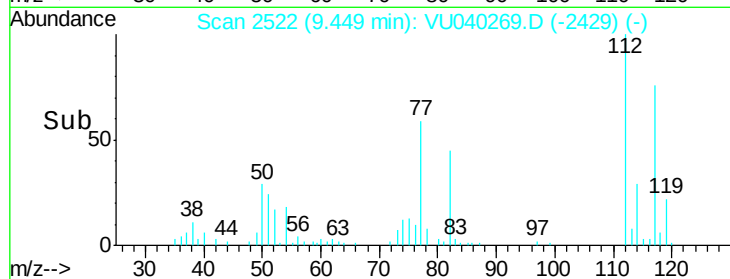
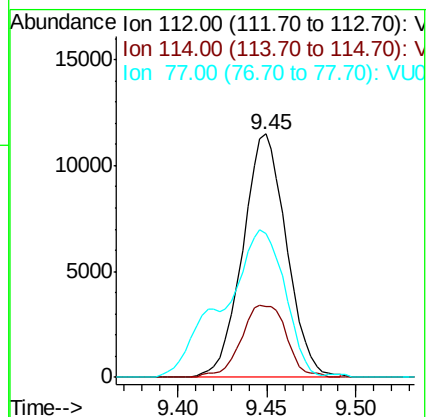
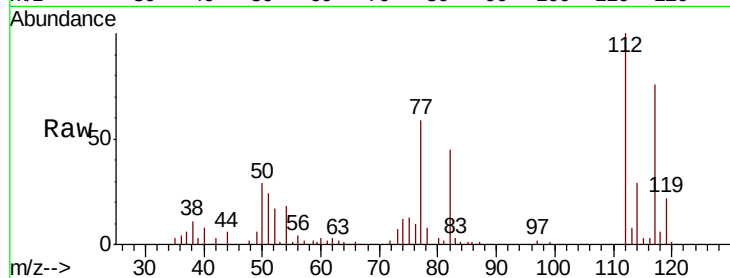
Tot Ion:112 Resp: 19729

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

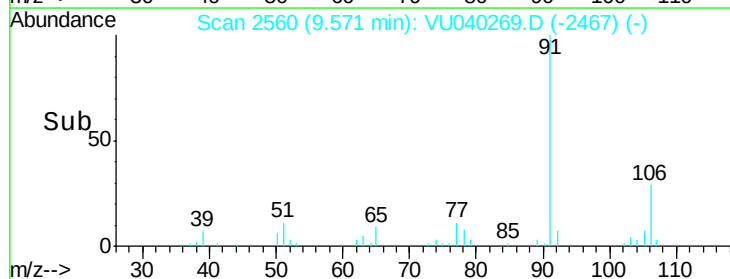
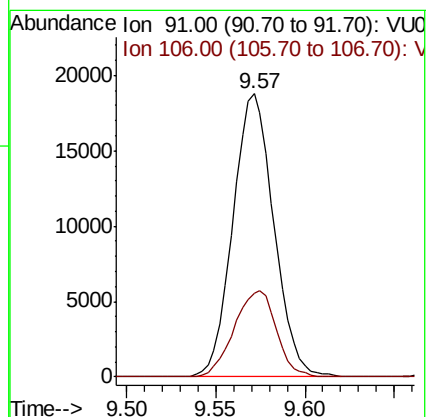
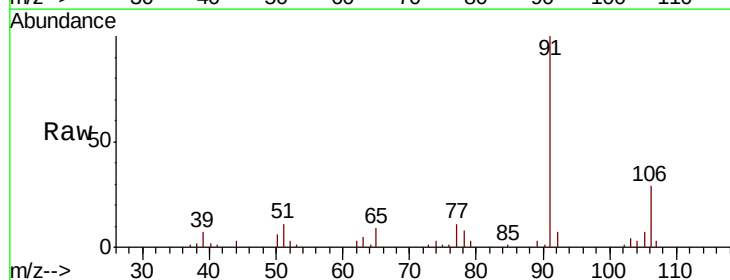
Acq: 24 Sep 2020 13:27

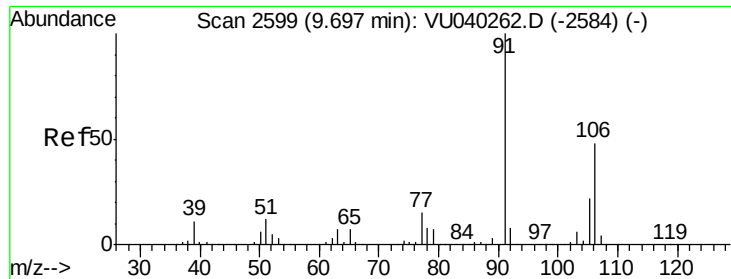
Tgt Ion: 91 Resp: 29962

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

Instrument :

MSVOA_U

ClientSampleId :

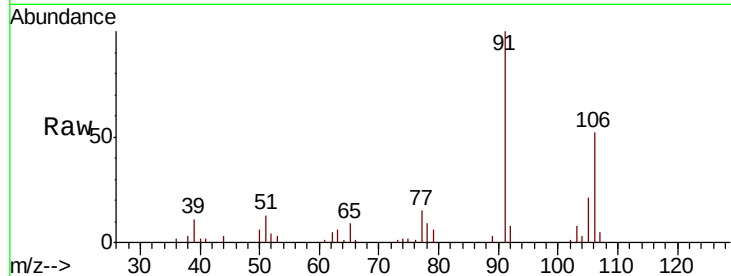
MDL-WATER-02

Tot Ion:106 Resp: 10571

Ion Ratio Lower Upper

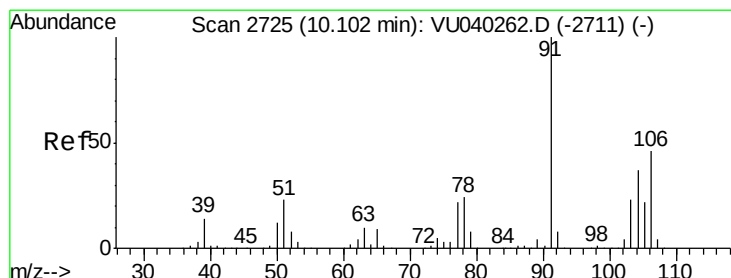
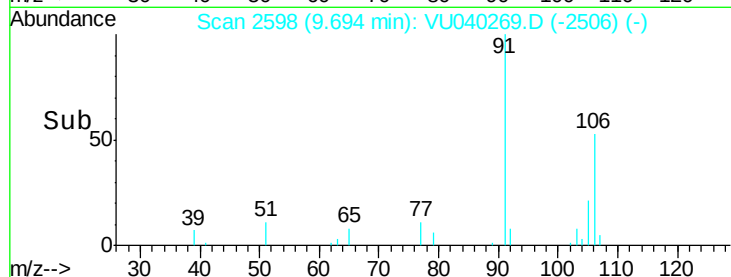
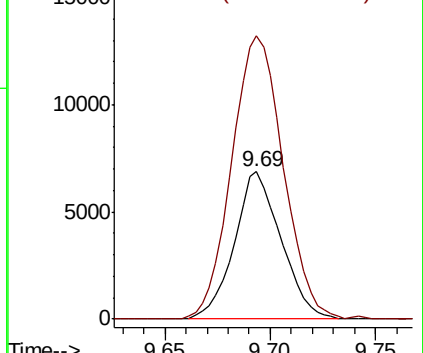
106 100

91 191.9 147.1 273.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#54

o-xylene

Concen: 1.781 ug/L

RT: 10.10 min Scan# 2725

Delta R.T. 0.00 min

Lab File: VU040269.D

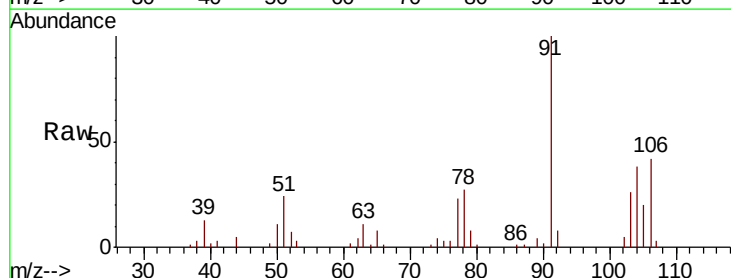
Acq: 24 Sep 2020 13:27

Tgt Ion:106 Resp: 9494

Ion Ratio Lower Upper

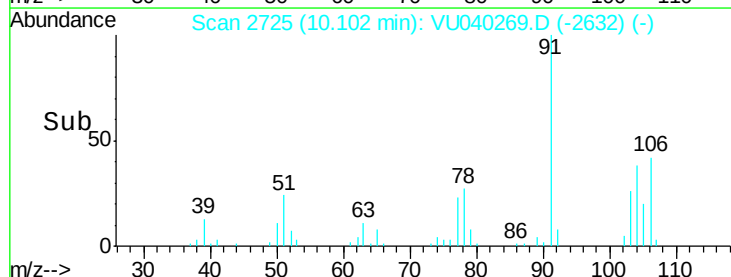
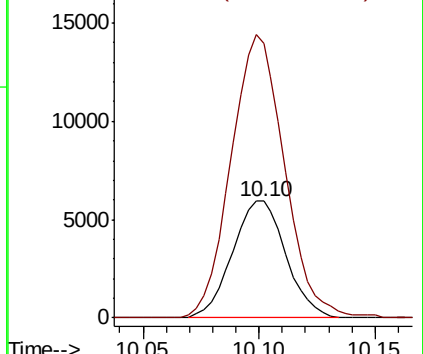
106 100

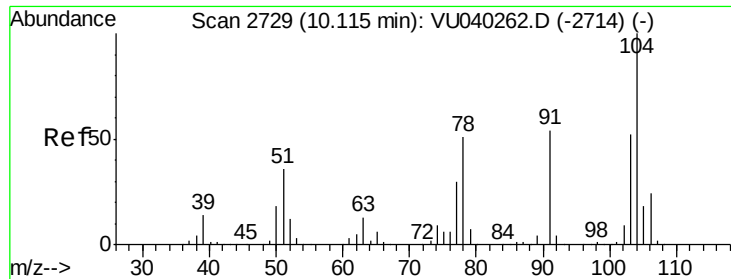
91 235.4 152.8 283.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0





#55

Stvrene

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

Instrument :

MSVOA_U

ClientSampleId :

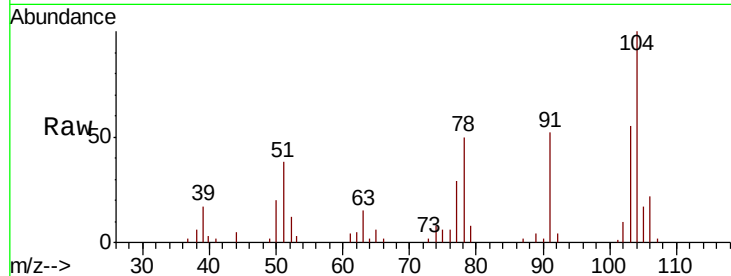
MDL-WATER-02

Tot Ion:104 Resp: 16141

Ion Ratio Lower Upper

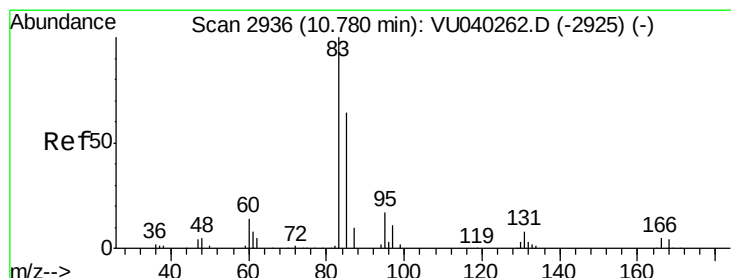
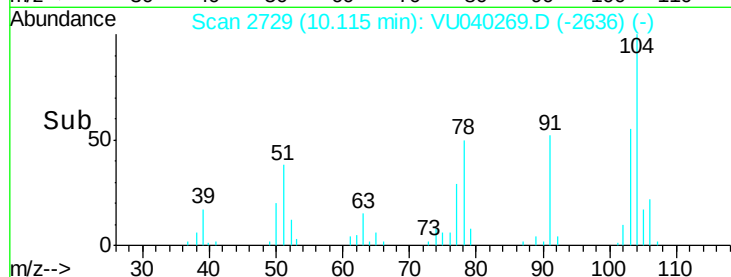
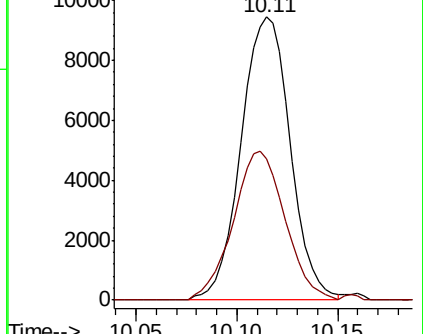
104 100

78 49.8 35.8 66.4



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0



#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

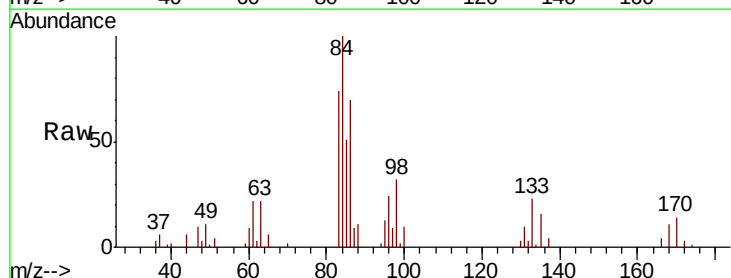
Tgt Ion: 83 Resp: 13300

Ion Ratio Lower Upper

83 100

85 68.6 45.6 84.6

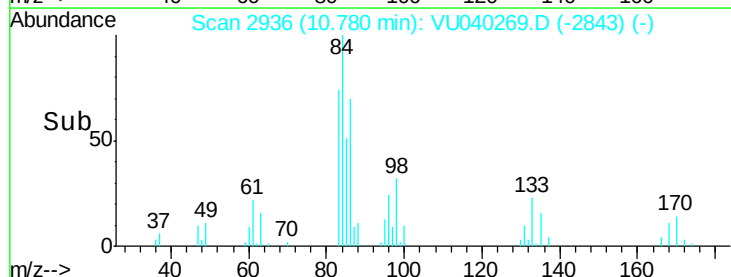
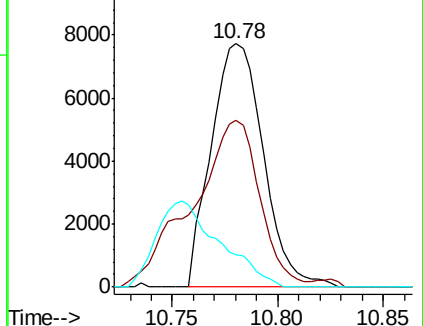
131 13.4 7.4 11.0#

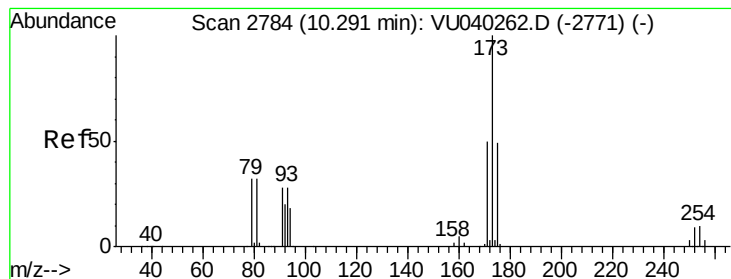


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 131.00 (130.70 to 131.70): V





#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

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-02

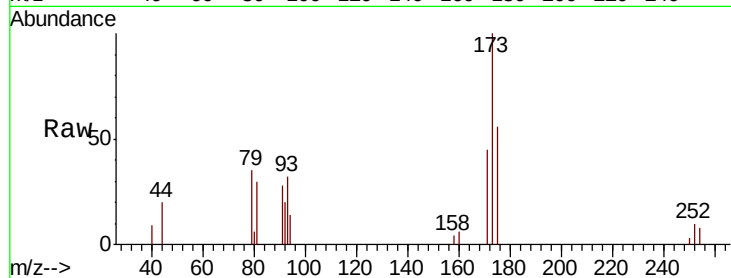
Tot Ion:173 Resp: 4947

Ion Ratio Lower Upper

173 100

175 49.0 38.6 58.0

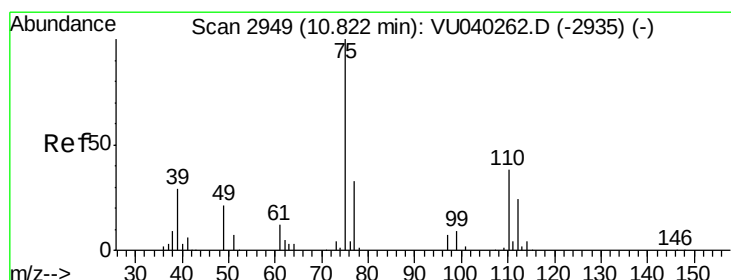
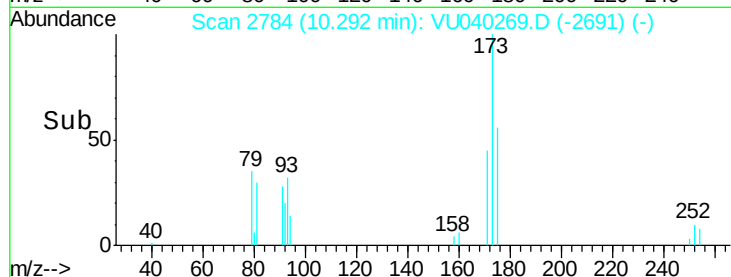
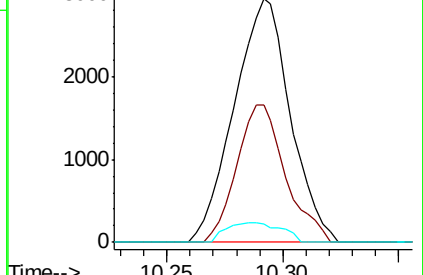
254 8.0 7.0 10.4



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#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

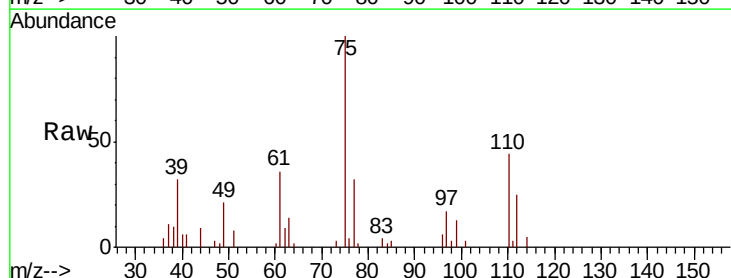
Tgt Ion: 75 Resp: 10845

Ion Ratio Lower Upper

75 100

77 31.8 26.0 39.0

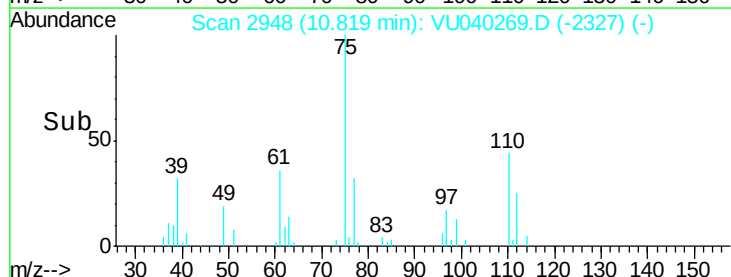
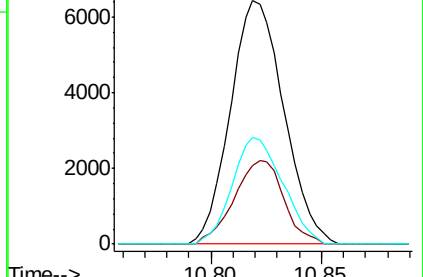
110 41.5 29.8 44.8

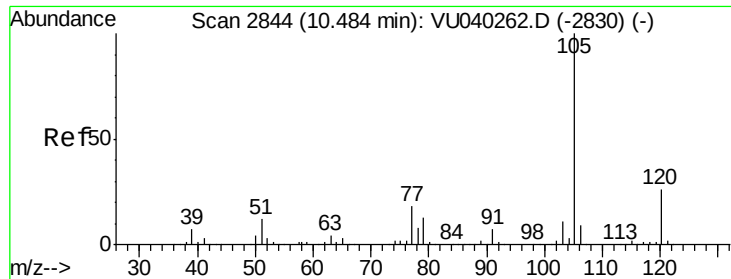


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

Ion 110.00 (109.70 to 110.70): V





#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

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-02

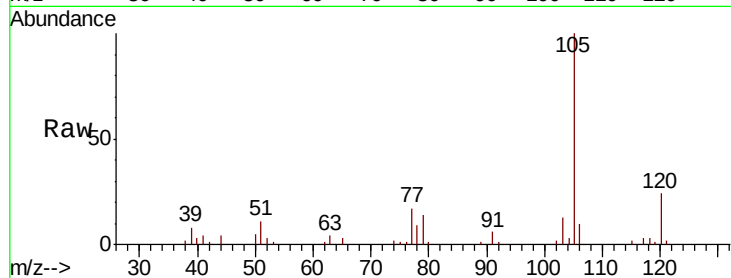
Tot Ion:105 Resp: 25112

Ion Ratio Lower Upper

105 100

120 25.8 20.6 30.8

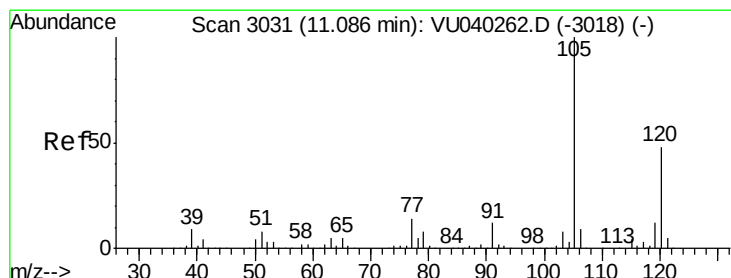
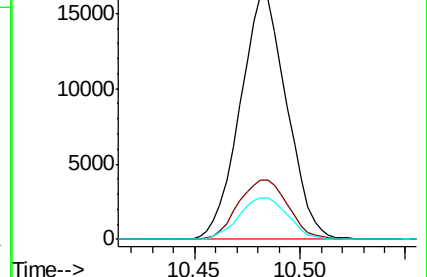
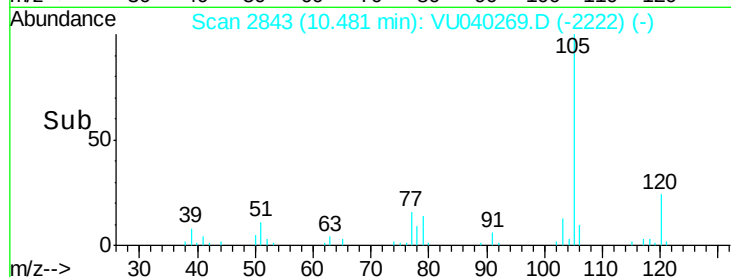
77 17.6 13.8 20.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VU



#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

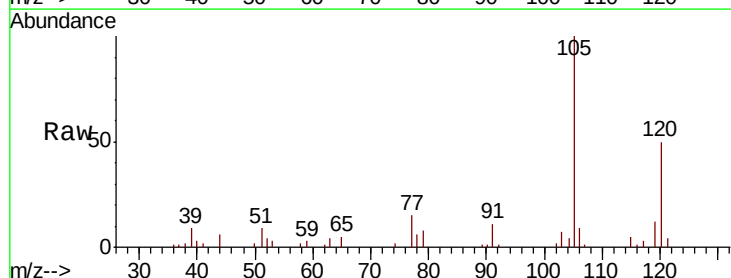
Acq: 24 Sep 2020 13:27

Tgt Ion:105 Resp: 20448

Ion Ratio Lower Upper

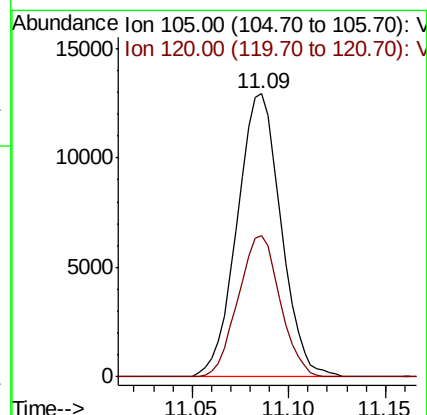
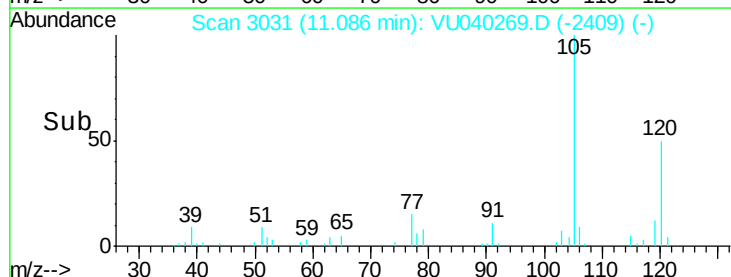
105 100

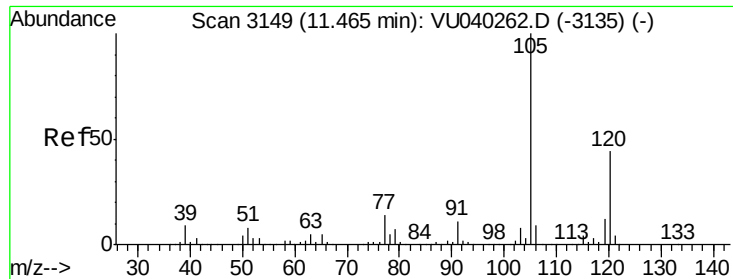
120 47.6 38.7 58.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

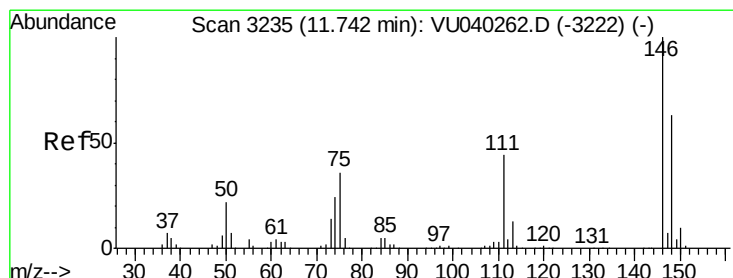
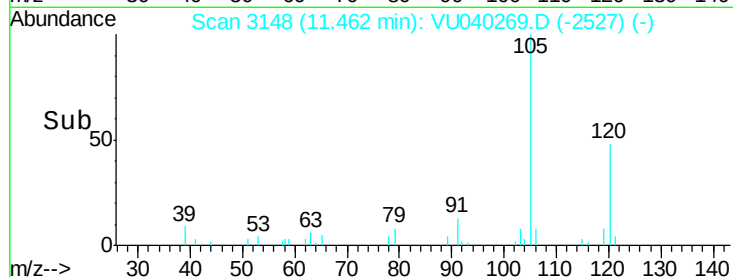
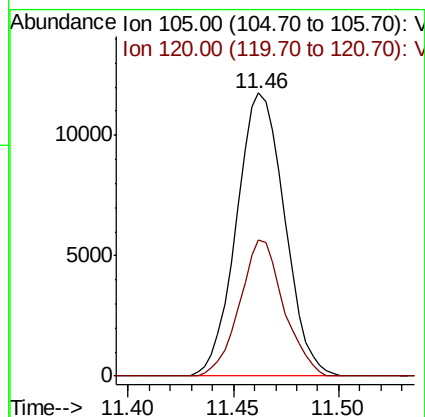
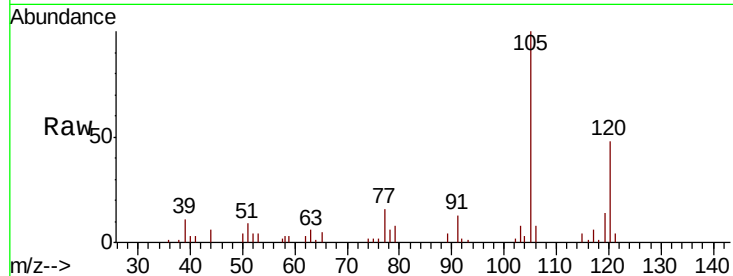




#63
 1,2,4-Trimethylbenzene
 Concen: 1.702 ug/L
 RT: 11.46 min Scan# 3148
 Delta R.T. -0.00 min
 Lab File: VU040269.D
 Acq: 24 Sep 2020 13:27

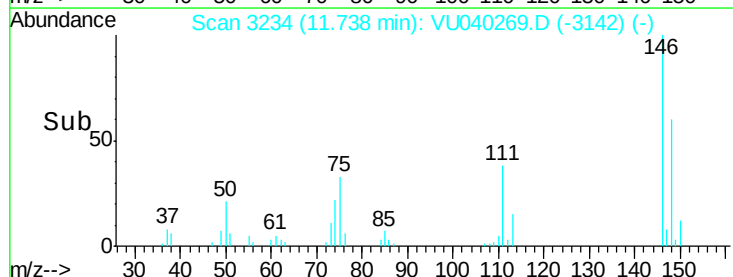
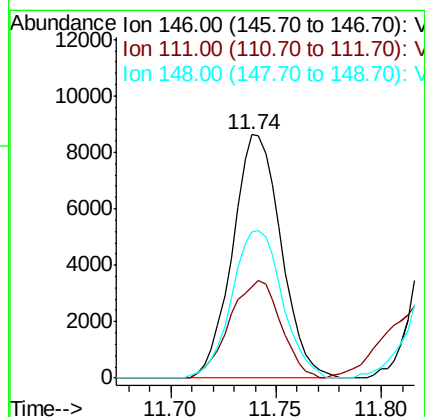
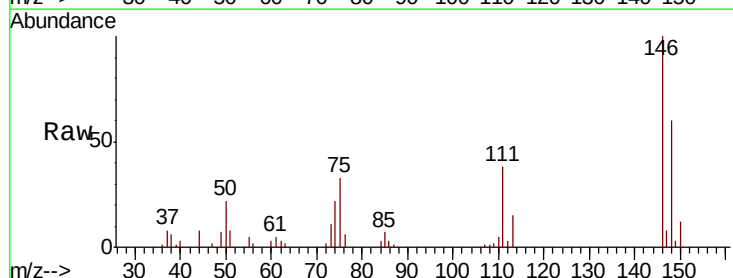
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-02

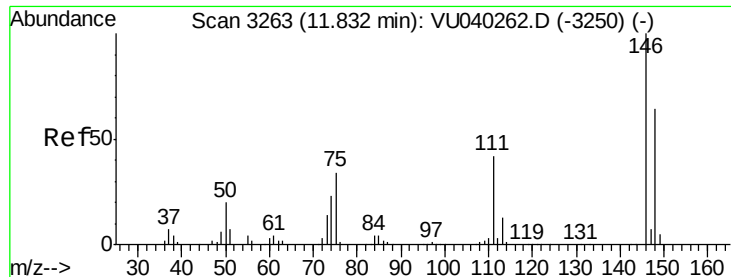
Tot Ion:105 Resp: 18658
 Ion Ratio Lower Upper
 105 100
 120 44.1 35.8 53.6



#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

Tgt Ion:146 Resp: 13751
 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

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-02

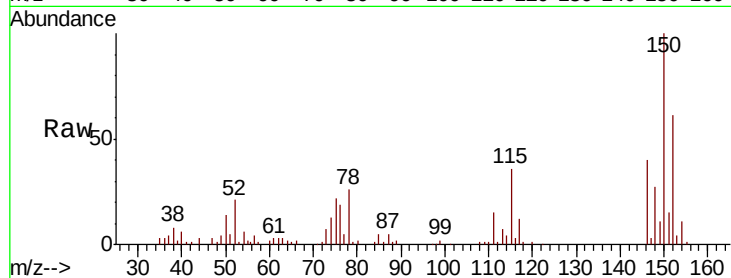
Tot Ion:146 Resp: 15784

Ion Ratio Lower Upper

146 100

111 38.1 29.4 54.6

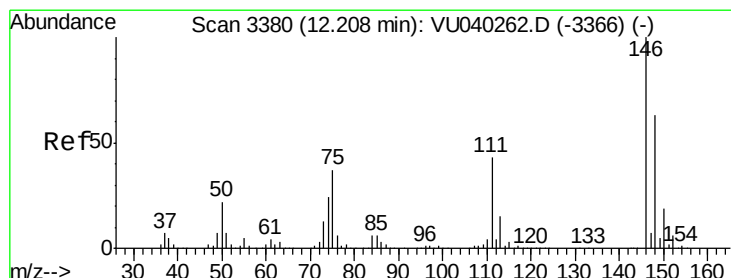
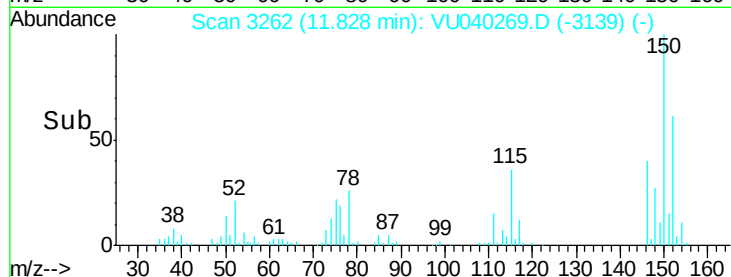
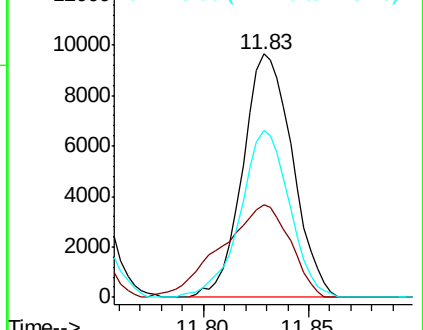
148 68.6 44.7 83.1



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#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

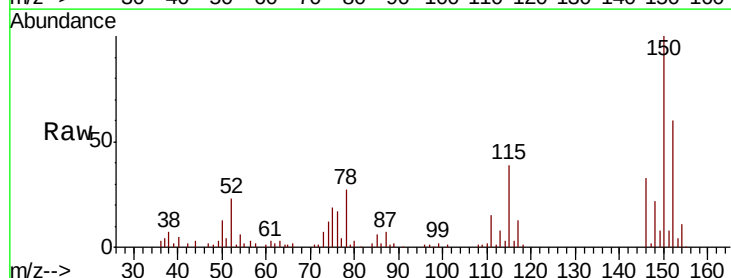
Tgt Ion:146 Resp: 15665

Ion Ratio Lower Upper

146 100

111 45.9 34.5 51.7

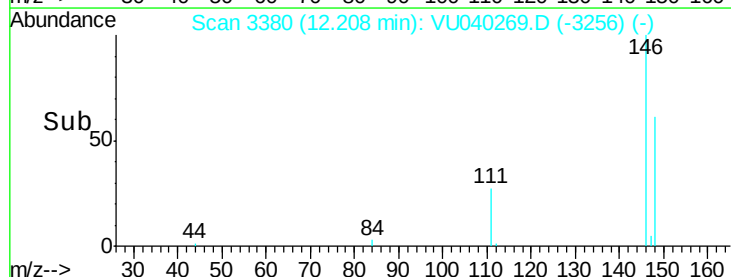
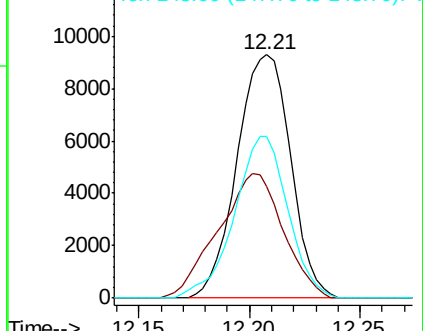
148 66.4 50.5 75.7

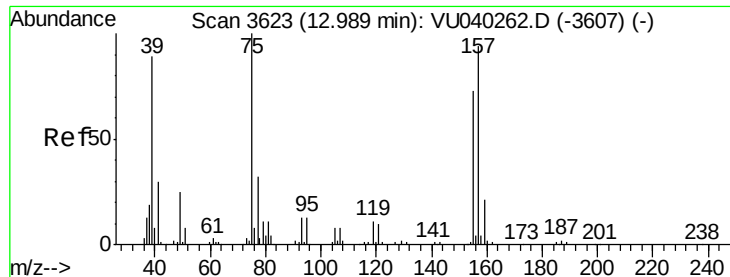


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

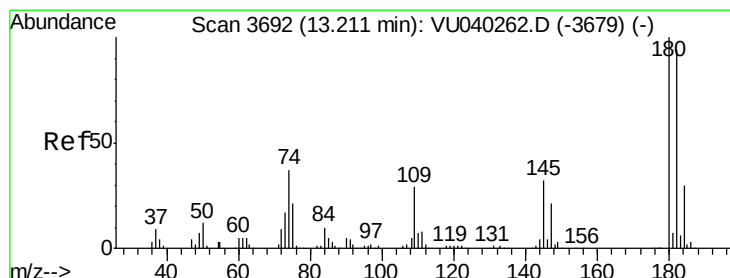
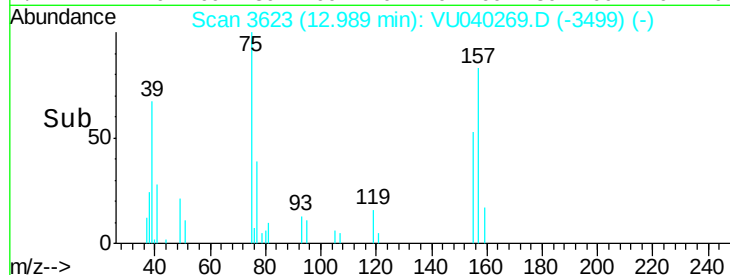
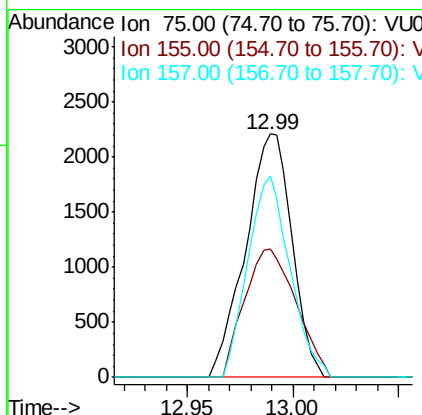
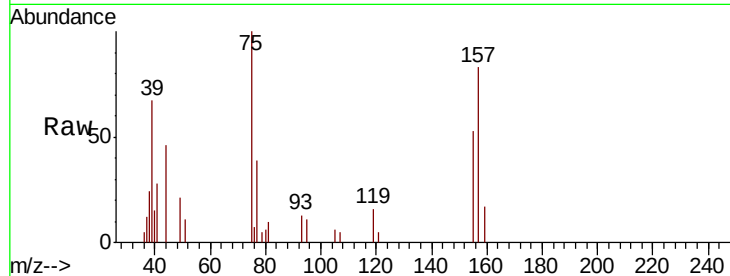




#68
 1,2-Dibromo-3-chloropropane
 Concen: 2.648 ug/L
 RT: 12.99 min Scan# 3623
 Delta R.T. 0.00 min
 Lab File: VU040269.D
 Acq: 24 Sep 2020 13:27

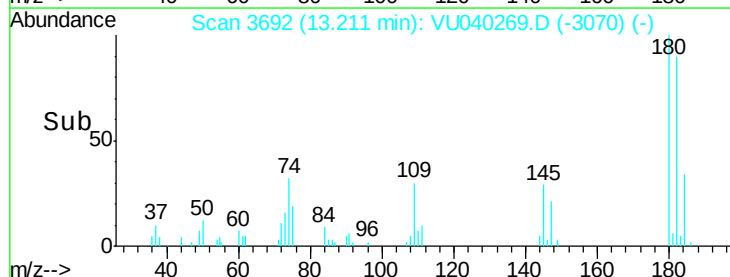
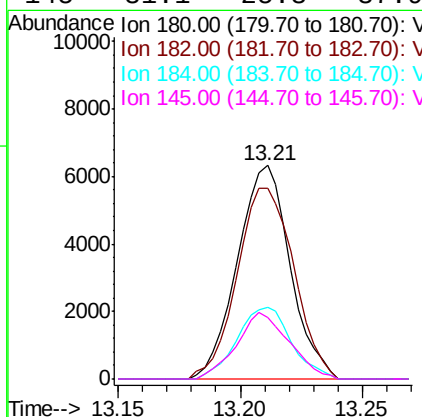
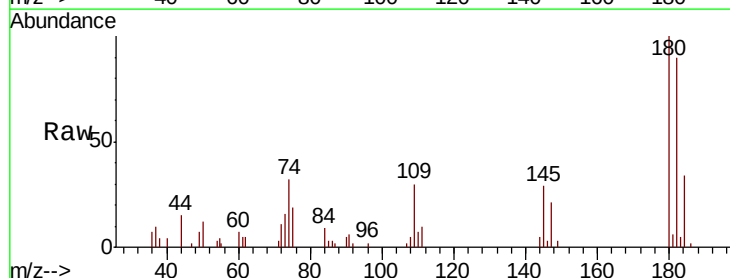
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-02

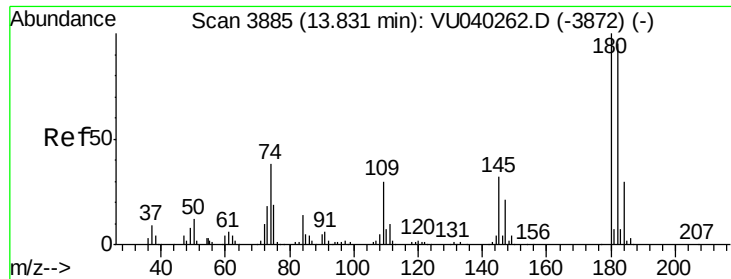
Tot Ion: 75 Resp: 3379
 Ion Ratio Lower Upper
 75 100
 155 52.5 58.8 88.2#
 157 82.9 75.1 112.7



#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

Tgt 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

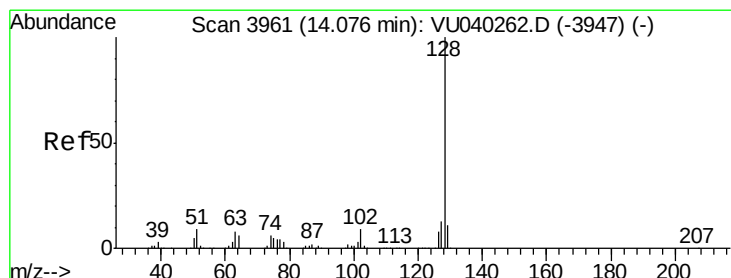
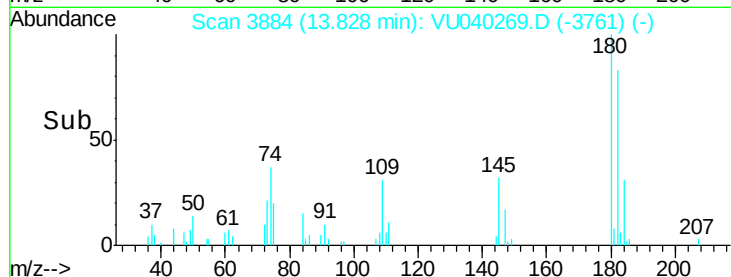
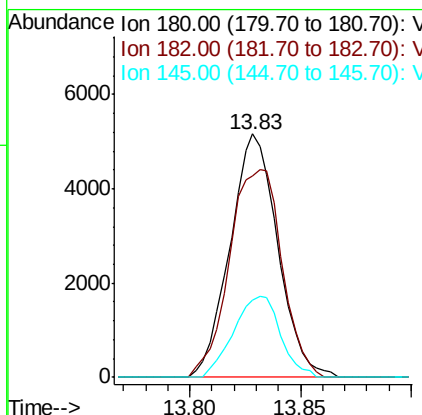
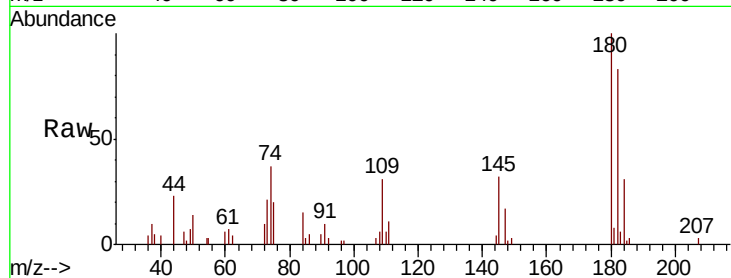




#70
 1,2,4-trichlorobenzene
 Concen: 2.207 ug/L
 RT: 13.83 min Scan# 3884
 Delta R.T. -0.00 min
 Lab File: VU040269.D
 Acq: 24 Sep 2020 13:27

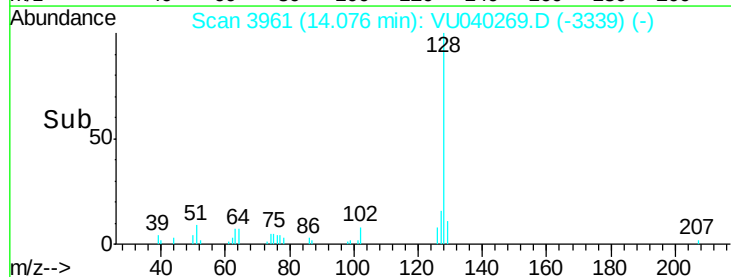
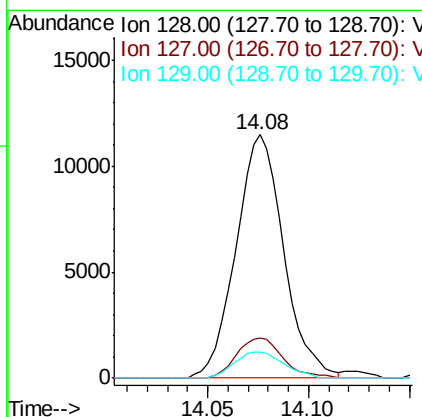
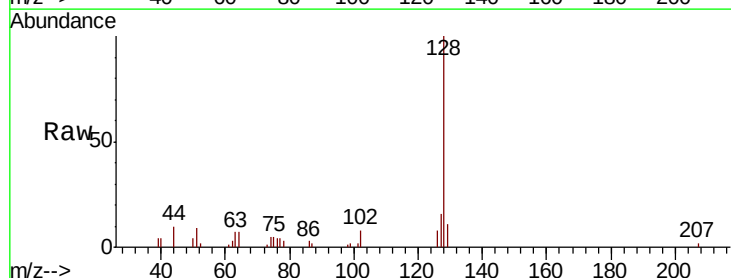
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-02

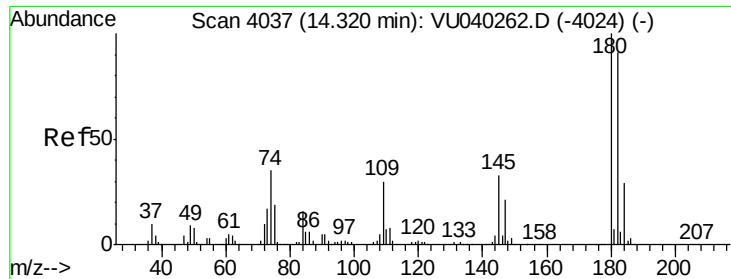
Tot Ion:180 Resp: 7783
 Ion Ratio Lower Upper
 180 100
 182 93.5 76.3 114.5
 145 32.6 26.0 39.0



#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

Tgt Ion:128 Resp: 19000
 Ion Ratio Lower Upper
 128 100
 127 16.0 10.3 15.5#
 129 11.2 8.8 13.2





#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

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-02

Tot Ion	Ratio	Lower	Upper
180	100		
182	91.0	74.2	111.4
145	30.3	27.8	41.6

