

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U110320\
 Data File : VU041085.D
 Acq On : 03 Nov 2020 18:08
 Operator : SY/MD
 Sample : L4575-03
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 C0AA2

Quant Time: Nov 04 01:01:16 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102620WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Nov 04 00:51:13 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	48829	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	50618	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	20342	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	16935	4.13	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	82.60%
7) Chloroethane-d5	1.93	69	14181	4.50	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	90.00%
11) 1,1-Dichloroethene-d2	2.58	63	24771	3.08	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	61.60%
20) 2-Butanone-d5	4.65	46	74159	54.90	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	109.80%
24) Chloroform-d	5.08	84	34016	4.69	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.80%
26) 1,2-Dichloroethane-d4	5.72	65	21844	4.86	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.20%
32) Benzene-d6	5.74	84	61451	4.54	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.80%
36) 1,2-Dichloropropane-d6	6.70	67	22124	5.02	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	100.40%
41) Toluene-d8	7.91	98	50095	4.08	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	81.60%
43) trans-1,3-Dichloropropene-	8.19	79	8662	4.53	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	90.60%
46) 2-Hexanone-d5	8.64	63	52646	51.18	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	102.36%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	19652	4.80	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	96.00%
64) 1,2-Dichlorobenzene-d4	12.19	152	19078	5.35	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	107.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chloromethane	1.53	50	459	0.099	ug/L	89
8) Chloroethane	1.94	64	256	0.088	ug/L #	43
9) Trichlorofluoromethane	2.15	101	74390	11.935	ug/L	99
13) Acetone	2.66	43	2026	2.194	ug/L	80
22) cis-1,2-Dichloroethene	4.68	96	4940	1.366	ug/L	93
25) Chloroform	5.11	83	1425	0.203	ug/L	83
27) 1,2-Dichloroethane	5.74	62	296	0.057	ug/L #	74
31) Carbon tetrachloride	5.54	117	1648	0.301	ug/L	95
33) Benzene	5.74	78	407	0.027	ug/L	100
34) Trichloroethene	6.55	95	2529	0.657	ug/L	98
35) Methylcyclohexane	6.70	83	5127	0.893	ug/L #	14
37) 1,2-Dichloropropane	6.70	63	2442	0.597	ug/L #	86
39) cis-1,3-Dichloropropene	7.57	75	576	0.102	ug/L #	75
40) 4-Methyl-2-pentanone	7.72	43	4054	1.242	ug/L #	45
44) trans-1,3-Dichloropropene	8.19	75	421	0.080	ug/L #	75
45) 1,1,2-Trichloroethane	8.40	97	390	0.128	ug/L #	52
47) Tetrachloroethene	8.56	164	60331	21.316	ug/L	97

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Instrument :
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ClientSampleId :
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Quant Time: Nov 04 01:01:16 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102620WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Nov 04 00:51:13 2020
Response via : Initial Calibration

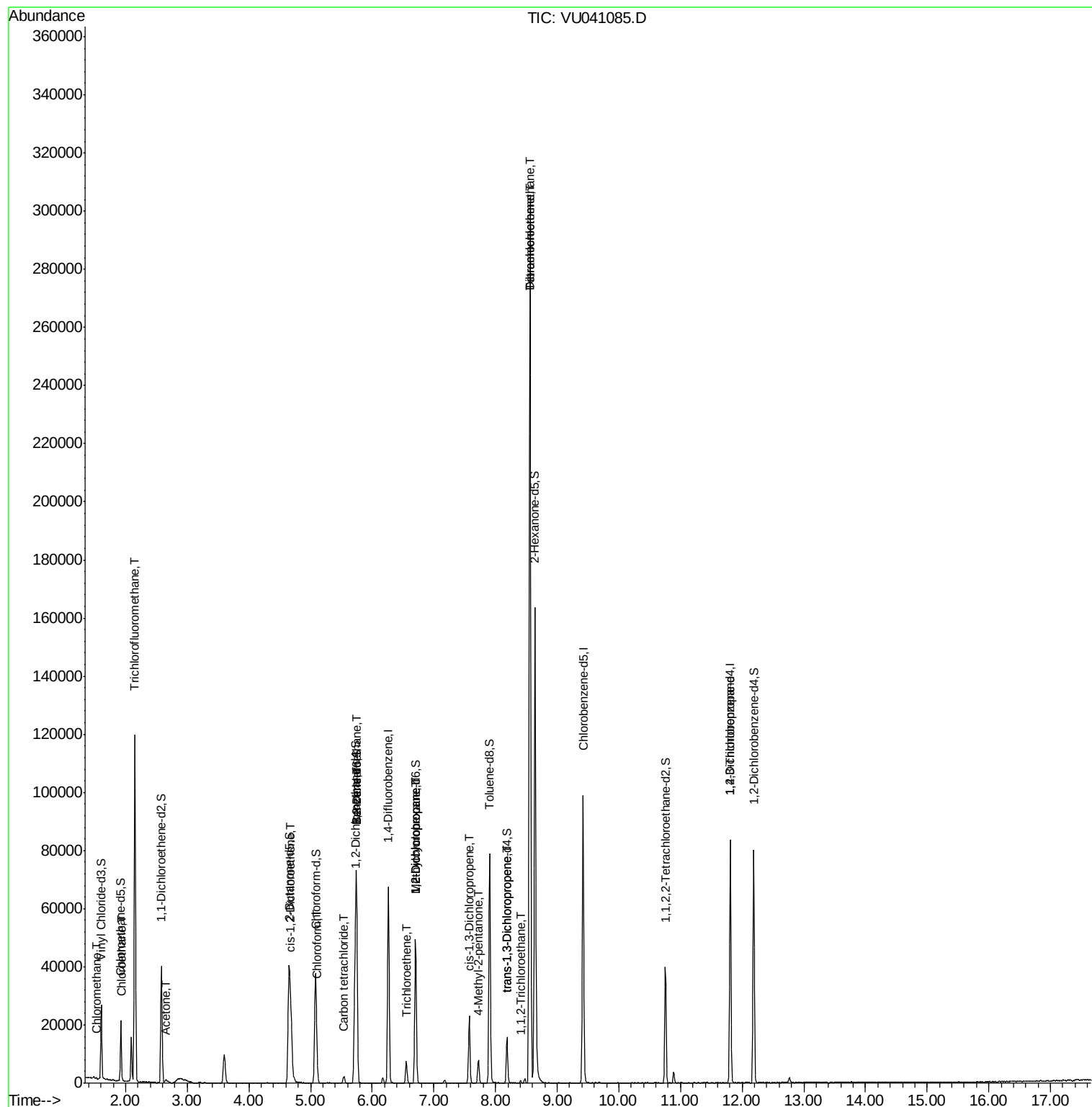
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Dibromochloromethane	8.56	129	61373	17.347	ug/L #	11
59) 1,2,3-Trichloropropane	11.81	75	2940	0.964	ug/L	92

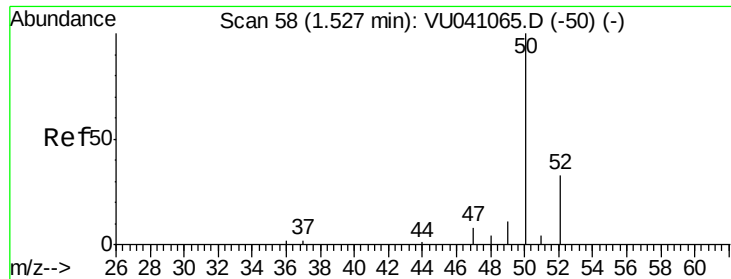
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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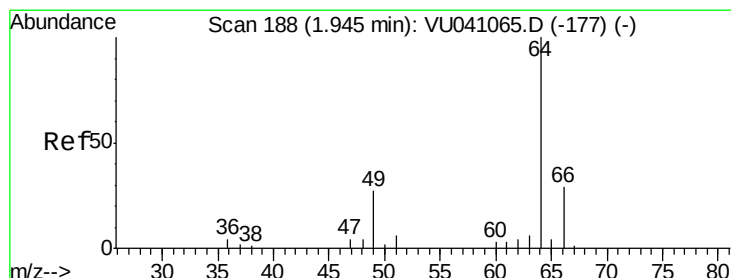
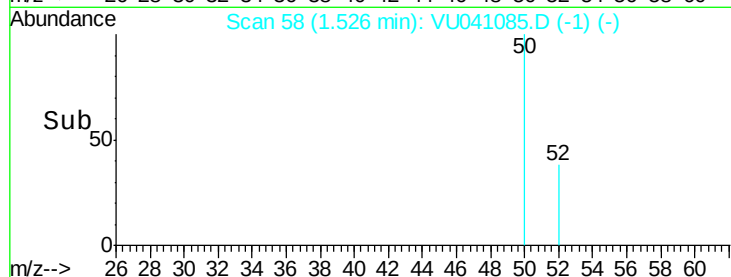
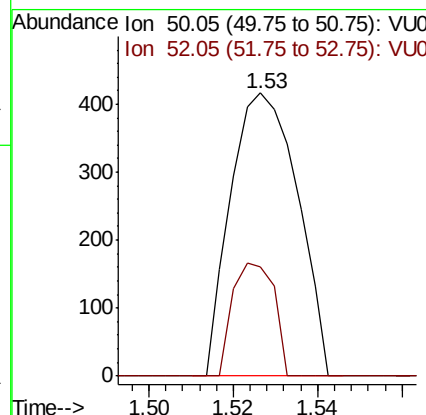
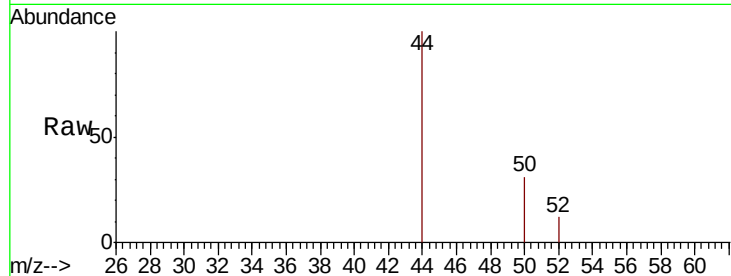




#3
 Chloromethane
 Concen: 0.099 ug/L
 RT: 1.53 min Scan# 58
 Delta R.T. -0.00 min
 Lab File: VU041085.D
 Acq: 03 Nov 2020 18:08

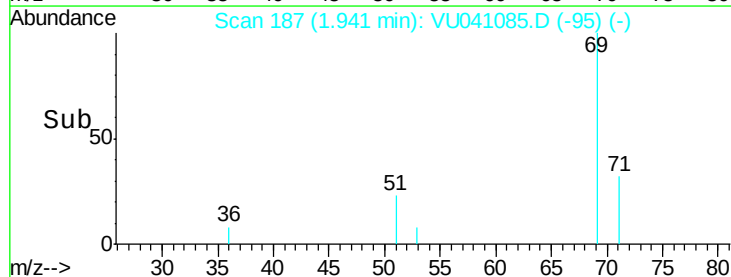
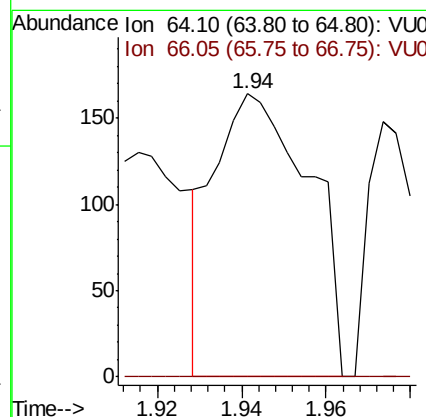
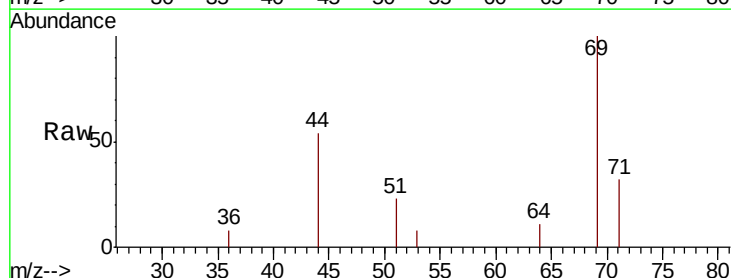
Instrument :
 MSVOA_U
 ClientSampleId :
 C0AA2

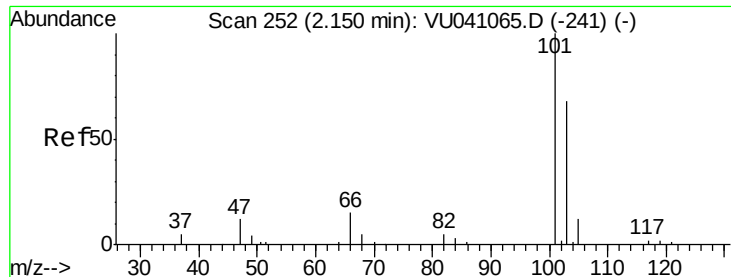
Tot Ion: 50 Resp: 459
 Ion Ratio Lower Upper
 50 100
 52 38.4 22.4 41.6



#8
 Chloroethane
 Concen: 0.088 ug/L
 RT: 1.94 min Scan# 187
 Delta R.T. -0.00 min
 Lab File: VU041085.D
 Acq: 03 Nov 2020 18:08

Tgt Ion: 64 Resp: 256
 Ion Ratio Lower Upper
 64 100
 66 0.0 22.3 41.5#



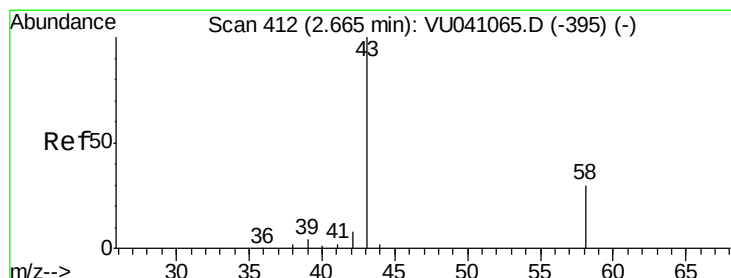
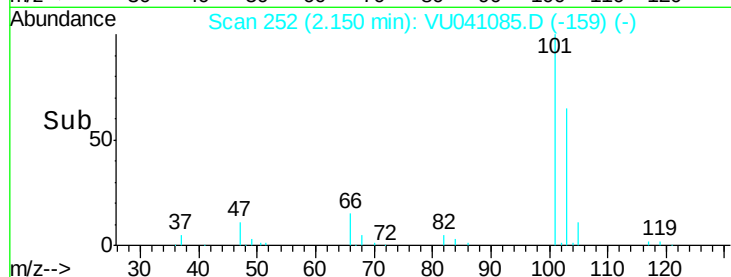
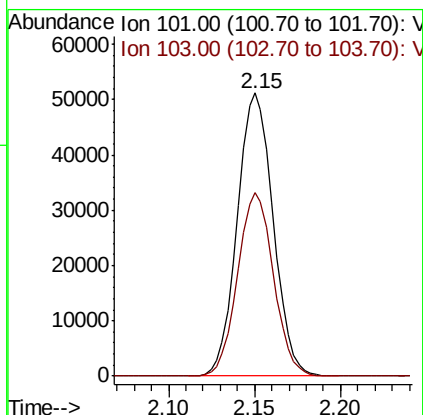
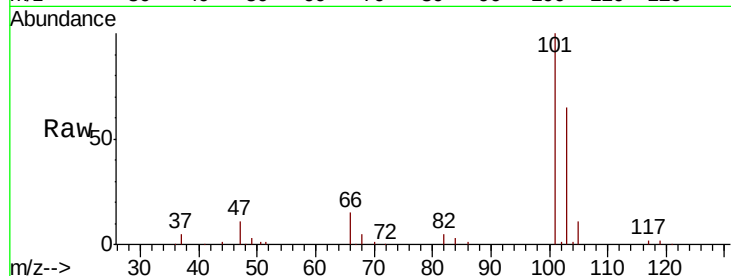


#9

Trichlorofluoromethane
 Concen: 11.935 ug/L
 RT: 2.15 min Scan# 252
 Delta R.T. -0.00 min
 Lab File: VU041085.D
 Acq: 03 Nov 2020 18:08

Instrument :
 MSVOA_U
 ClientSampleId :
 C0AA2

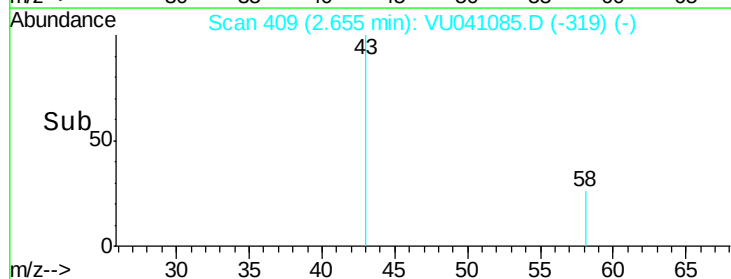
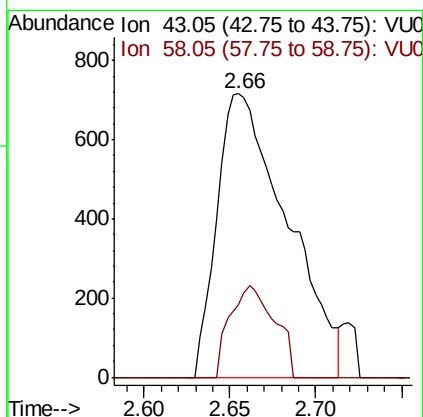
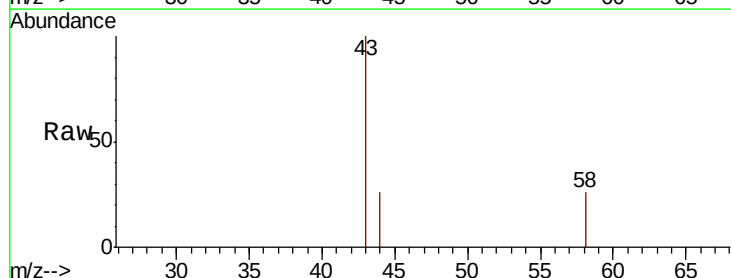
Tot Ion:101 Resp: 74390
 Ion Ratio Lower Upper
 101 100
 103 64.7 51.0 76.4

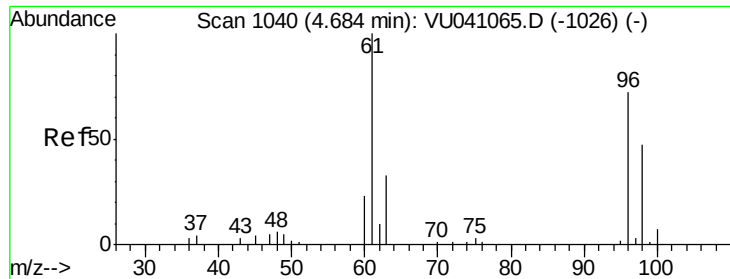


#13

Acetone
 Concen: 2.194 ug/L
 RT: 2.66 min Scan# 409
 Delta R.T. -0.01 min
 Lab File: VU041085.D
 Acq: 03 Nov 2020 18:08

Tgt Ion: 43 Resp: 2026
 Ion Ratio Lower Upper
 43 100
 58 20.6 0.0 25.4

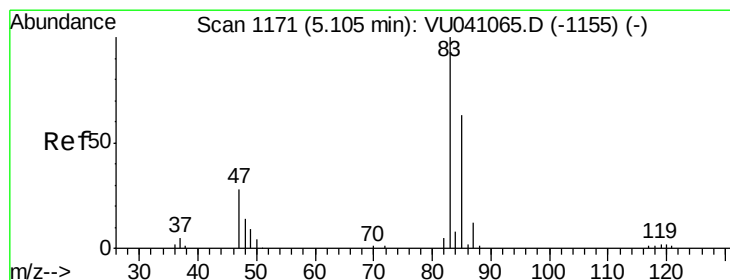
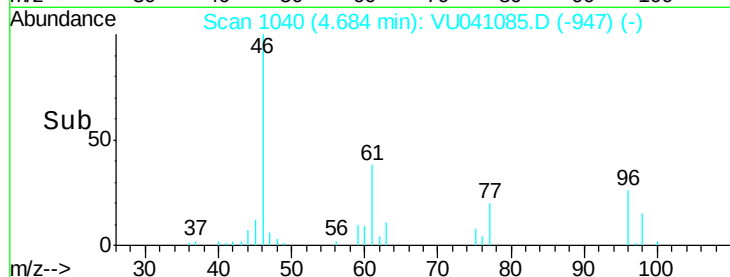
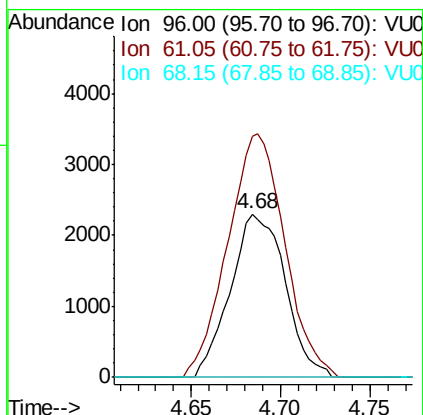
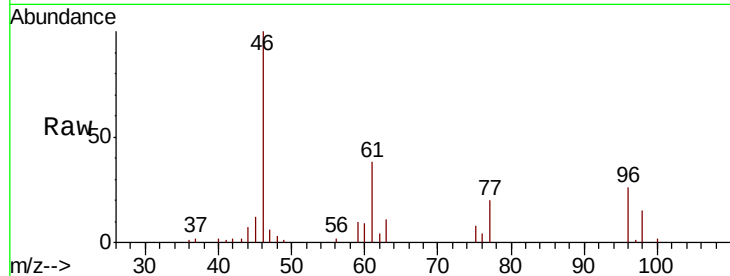




#22
 cis-1,2-Dichloroethene
 Concen: 1.366 ug/L
 RT: 4.68 min Scan# 1040
 Delta R.T. -0.00 min
 Lab File: VU041085.D
 Acq: 03 Nov 2020 18:08

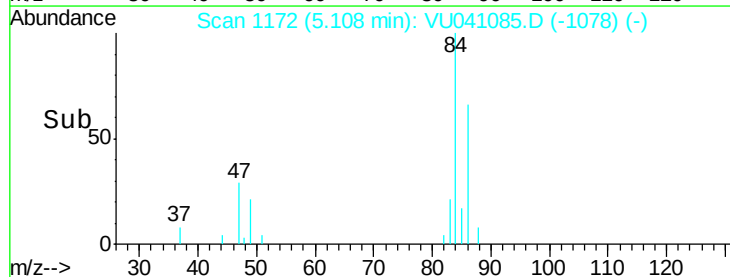
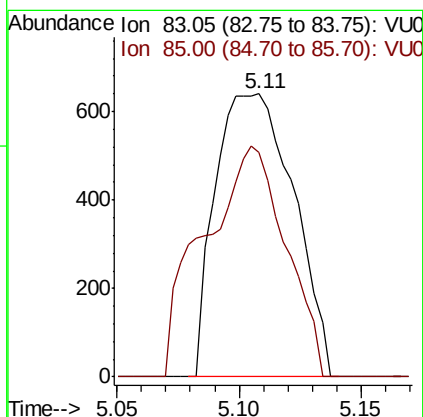
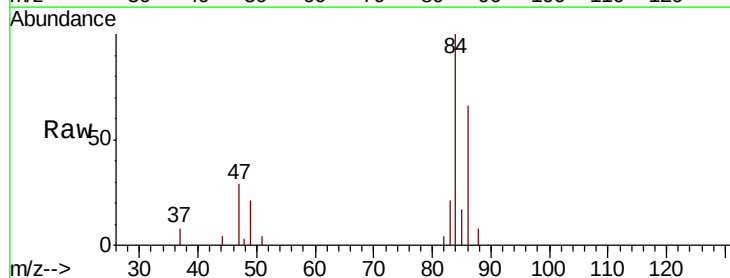
Instrument :
 MSVOA_U
 ClientSampleId :
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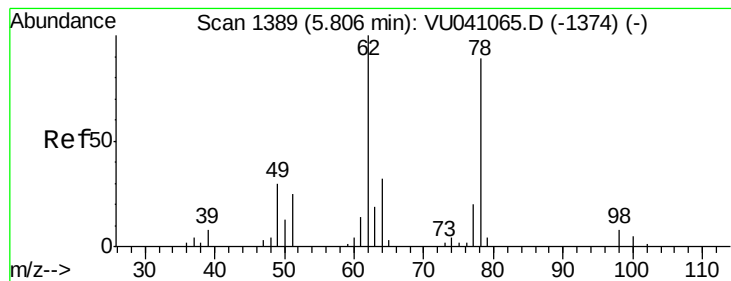
Tot Ion: 96 Resp: 4940
 Ion Ratio Lower Upper
 96 100
 61 147.1 97.2 180.4
 68 0.0 0.0 0.0



#25
 Chloroform
 Concen: 0.203 ug/L
 RT: 5.11 min Scan# 1172
 Delta R.T. 0.00 min
 Lab File: VU041085.D
 Acq: 03 Nov 2020 18:08

Tgt Ion: 83 Resp: 1425
 Ion Ratio Lower Upper
 83 100
 85 79.2 46.1 85.7





#27

1,2-Dichloroethane

Concen: 0.057 ug/L

RT: 5.74 min Scan# 1370

Delta R.T. -0.06 min

Lab File: VU041085.D

Acq: 03 Nov 2020 18:08

Instrument :

MSVOA_U

ClientSampleId :

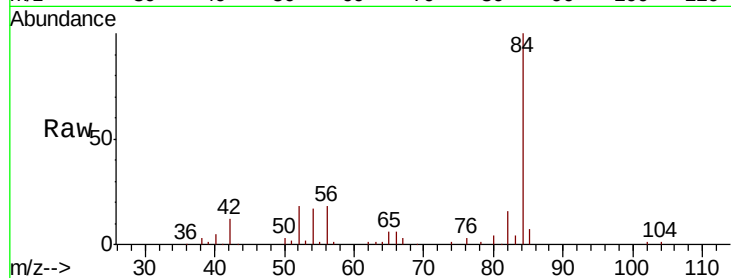
C0AA2

Tot Ion: 62.00 Resp: 296

Ion Ratio Lower Upper

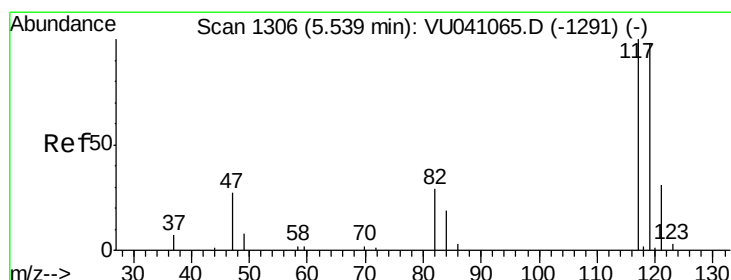
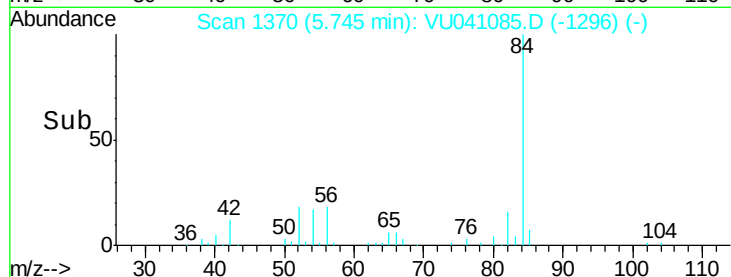
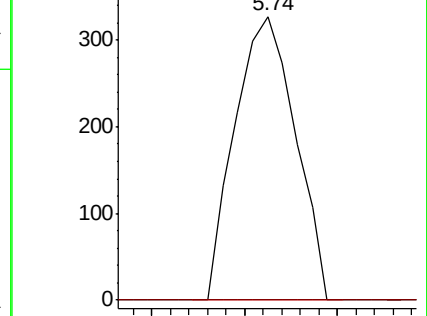
62 100

98 0.0 7.6 11.4#



Abundance Ion 62.00 (61.70 to 62.70): VU041085.D (-1374) (-)

Ion 98.05 (97.75 to 98.75): VU041085.D (-1374) (-)



#31

Carbon tetrachloride

Concen: 0.301 ug/L

RT: 5.54 min Scan# 1307

Delta R.T. 0.00 min

Lab File: VU041085.D

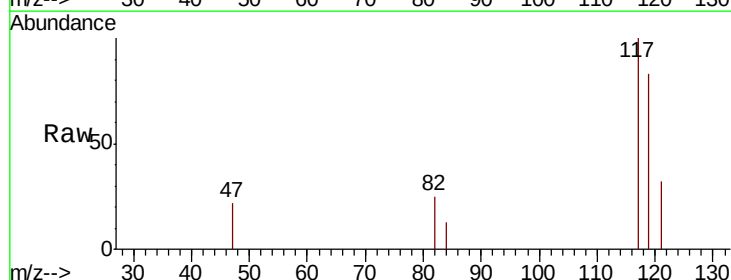
Acq: 03 Nov 2020 18:08

Tgt Ion: 117 Resp: 1648

Ion Ratio Lower Upper

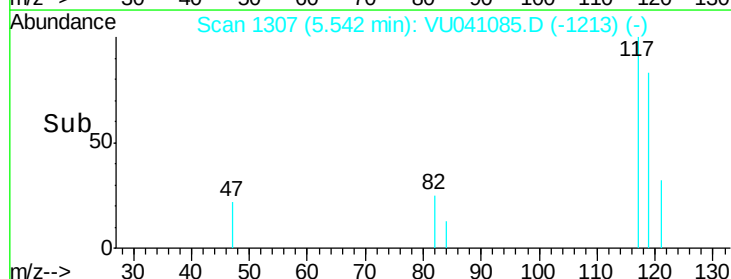
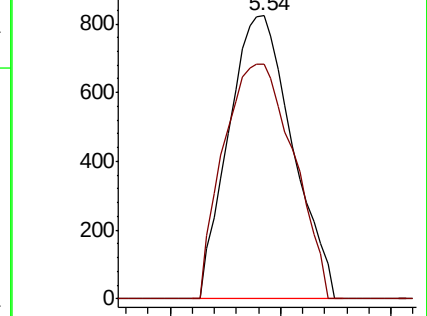
117 100

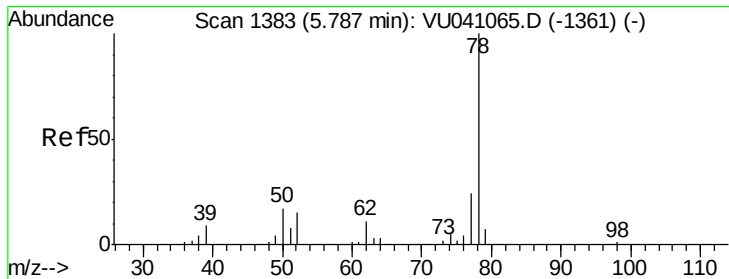
119 90.6 76.1 114.1



Abundance Ion 116.90 (116.60 to 117.60): VU041085.D (-1213) (-)

Ion 118.90 (118.60 to 119.60): VU041085.D (-1213) (-)





#33

Benzene

Concen: 0.027 ug/L

RT: 5.74 min Scan# 1369

Delta R.T. -0.05 min

Lab File: VU041085.D

Acq: 03 Nov 2020 18:08

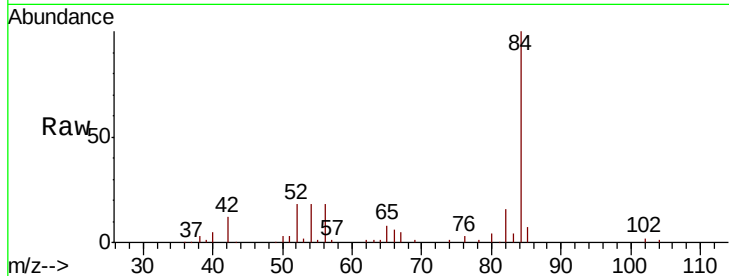
Instrument :

MSVOA_U

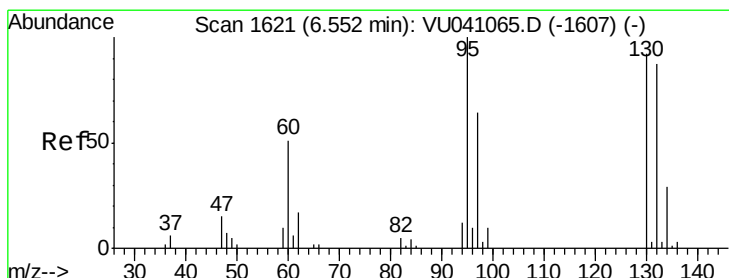
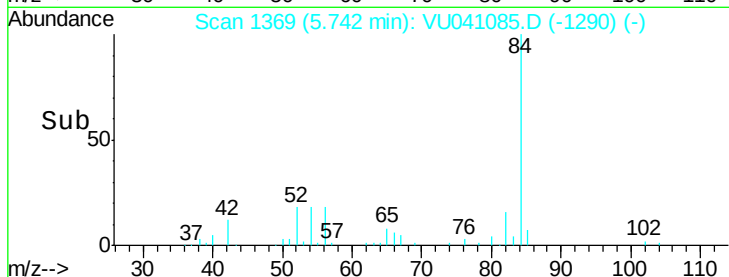
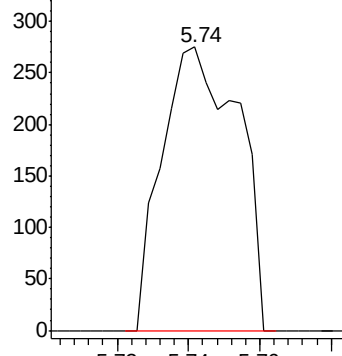
ClientSampled :

C0AA2

Tgt Ion: 78 Resp: 407



Abundance Ion 78.10 (77.80 to 78.80): VU0



#34

Trichloroethene

Concen: 0.657 ug/L

RT: 6.55 min Scan# 1621

Delta R.T. -0.00 min

Lab File: VU041085.D

Acq: 03 Nov 2020 18:08

Tgt Ion: 95 Resp: 2529

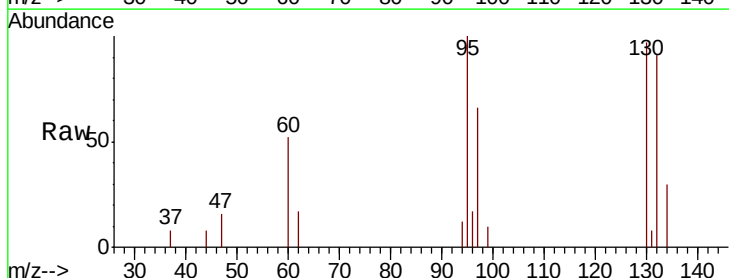
Ion Ratio Lower Upper

95 100

97 65.7 45.6 84.6

132 90.8 64.8 120.4

130 96.5 64.8 120.4

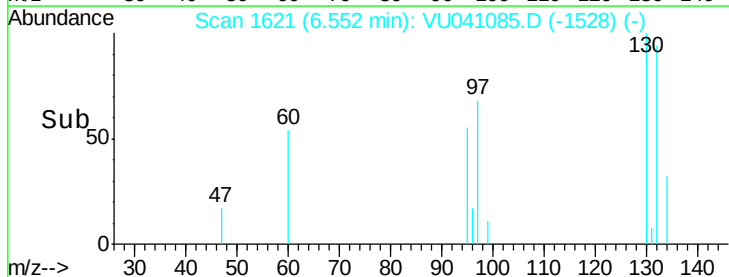
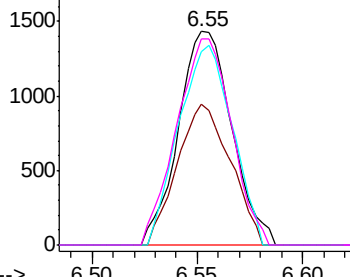


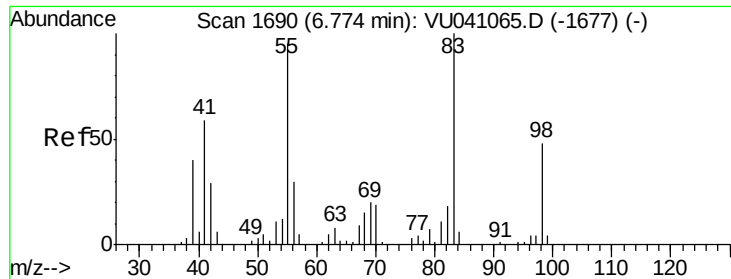
Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): VU0

Ion 129.95 (129.65 to 130.65): VU0

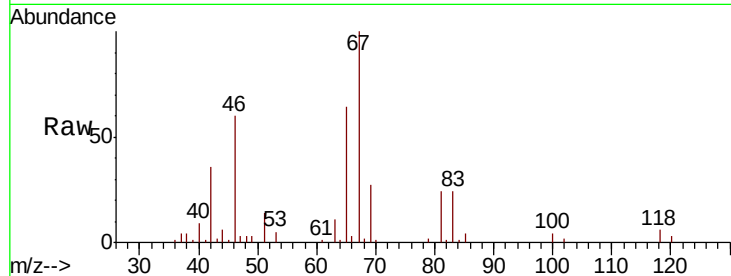




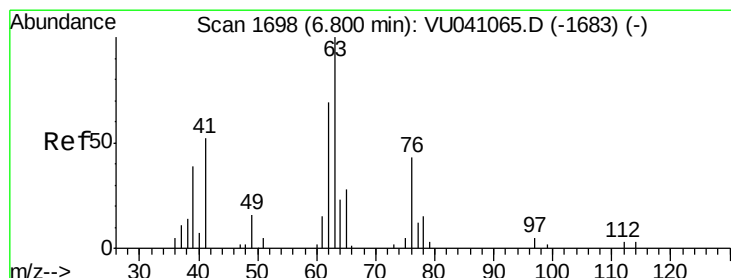
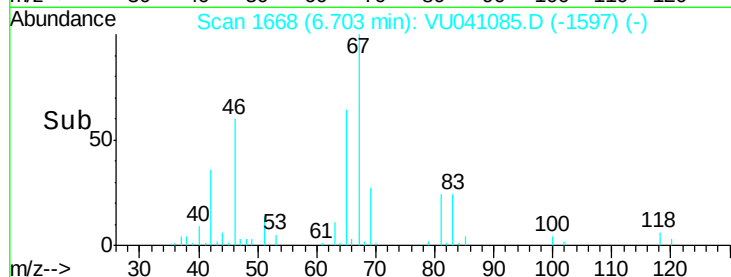
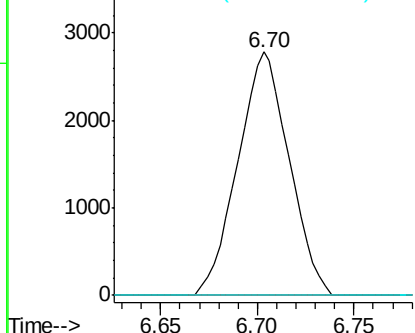
#35
Methylvlcyclohexane
Concen: 0.893 ug/L
RT: 6.70 min Scan# 1668
Delta R.T. -0.07 min
Lab File: VU041085.D
Acq: 03 Nov 2020 18:08

Instrument :
MSVOA_U
ClientSampleId :
C0AA2

Tot Ion: 83 Resp: 5127
Ion Ratio Lower Upper
83 100
55 0.0 72.0 108.0#
98 0.8 36.6 55.0#

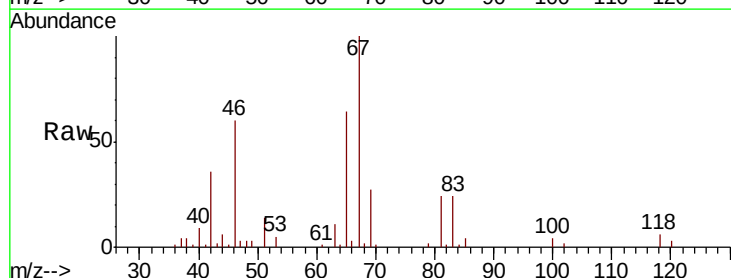


Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0

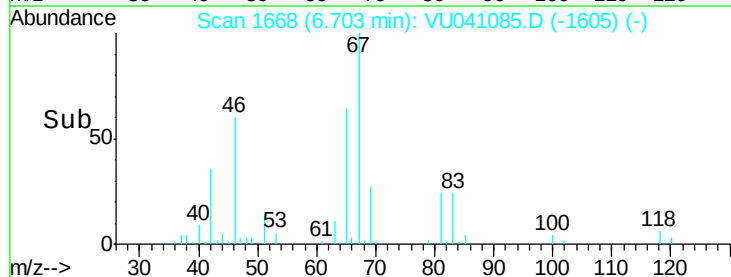
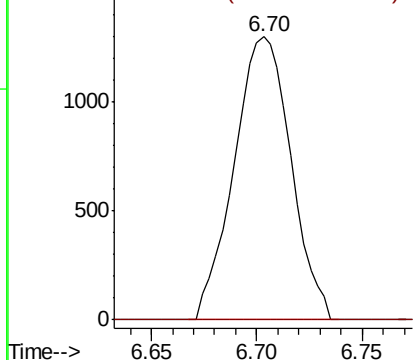


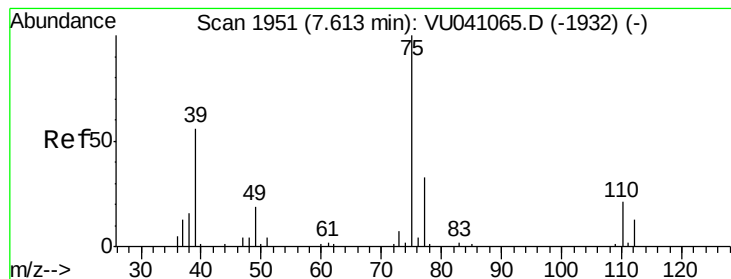
#37
1,2-Dichloropropane
Concen: 0.597 ug/L
RT: 6.70 min Scan# 1668
Delta R.T. -0.10 min
Lab File: VU041085.D
Acq: 03 Nov 2020 18:08

Tgt Ion: 63 Resp: 2442
Ion Ratio Lower Upper
63 100
112 0.0 3.6 5.4#



Abundance Ion 63.10 (62.80 to 63.80): VU0
Ion 112.10 (111.80 to 112.80): V



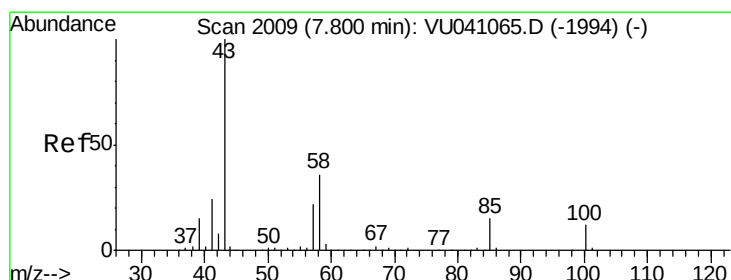
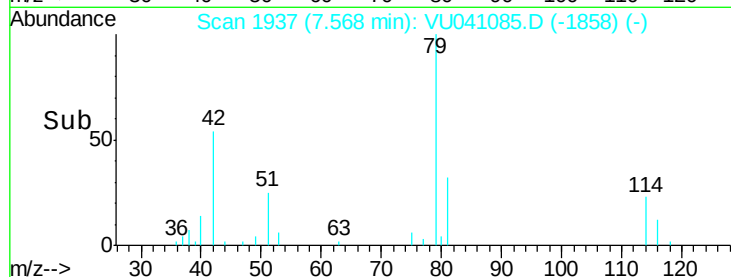
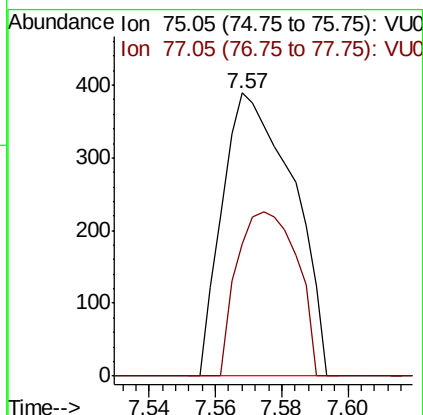
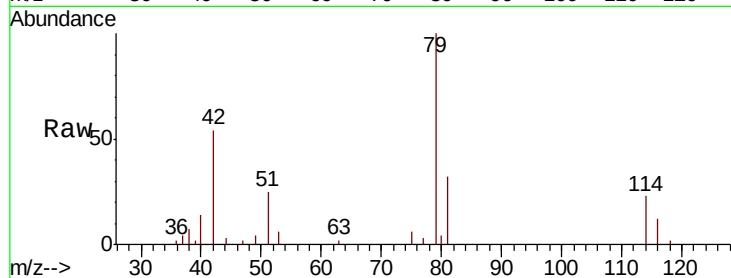


#39

cis-1,3-Dichloropropene
Concen: 0.102 ug/L
RT: 7.57 min Scan# 1937
Delta R.T. -0.05 min
Lab File: VU041085.D
Acq: 03 Nov 2020 18:08

Instrument :
MSVOA_U
ClientSampleId :
C0AA2

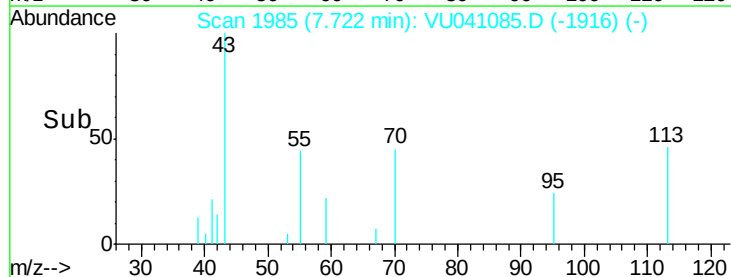
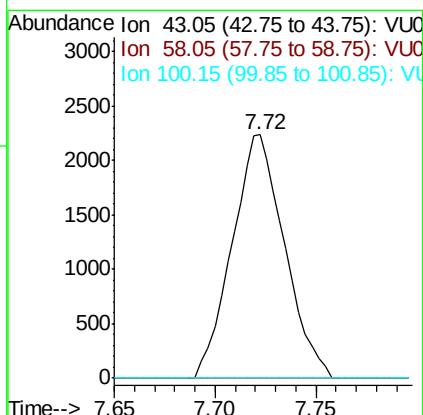
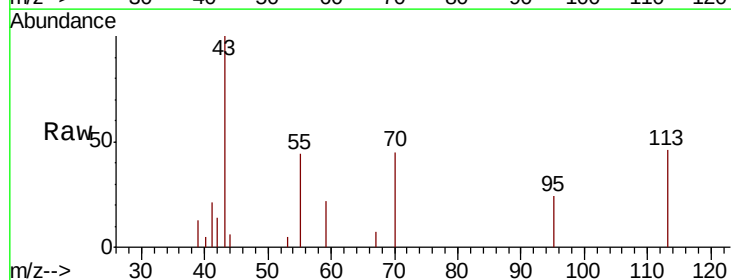
Tot Ion: 75 Resp: 576
Ion Ratio Lower Upper
75 100
77 46.8 22.7 42.3#

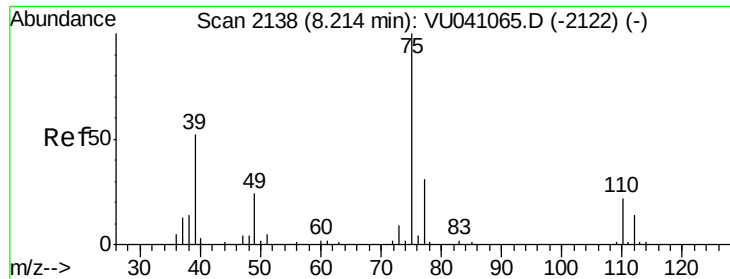


#40

4-Methyl-2-pentanone
Concen: 1.242 ug/L
RT: 7.72 min Scan# 1985
Delta R.T. -0.08 min
Lab File: VU041085.D
Acq: 03 Nov 2020 18:08

Tgt Ion: 43 Resp: 4054
Ion Ratio Lower Upper
43 100
58 0.0 29.8 44.6#
100 0.0 10.5 15.7#





#44

trans-1,3-Dichloropropene

Concen: 0.080 ug/L

RT: 8.19 min Scan# 2129

Delta R.T. -0.03 min

Lab File: VU041085.D

Acq: 03 Nov 2020 18:08

Instrument :

MSVOA_U

ClientSampleId :

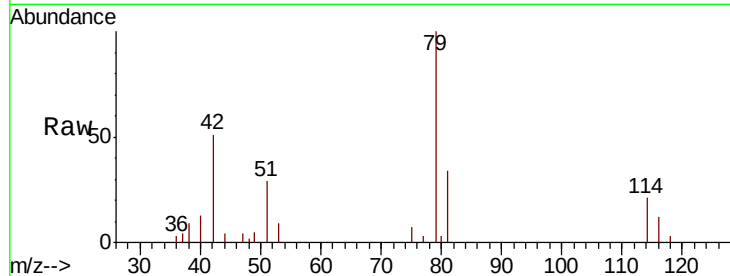
C0AA2

Tot Ion: 75 Resp: 421

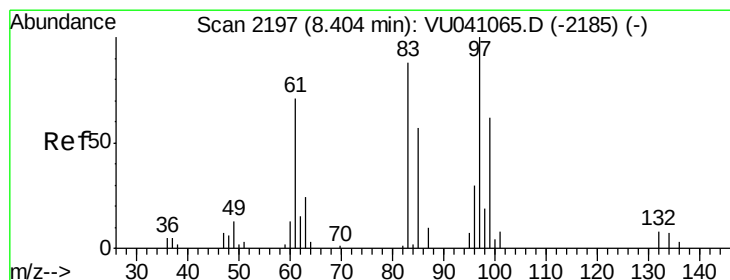
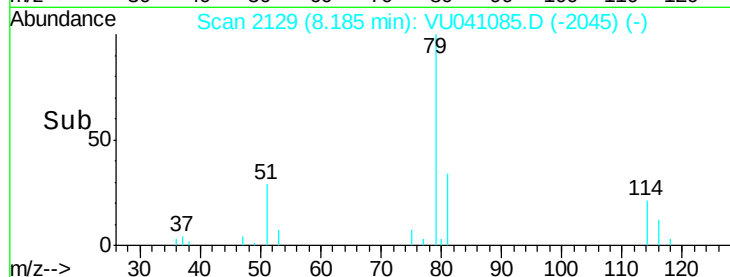
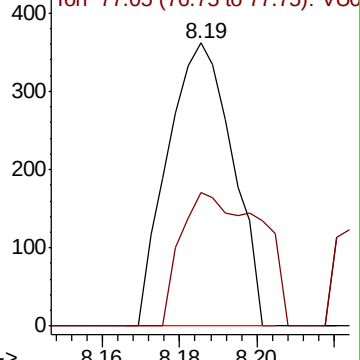
Ion Ratio Lower Upper

75 100

77 47.2 23.3 43.3#



Abundance Ion 75.05 (74.75 to 75.75): VU041085.D (-2122) (-)



#45

1,1,2-Trichloroethane

Concen: 0.128 ug/L

RT: 8.40 min Scan# 2197

Delta R.T. -0.00 min

Lab File: VU041085.D

Acq: 03 Nov 2020 18:08

Tgt Ion: 97 Resp: 390

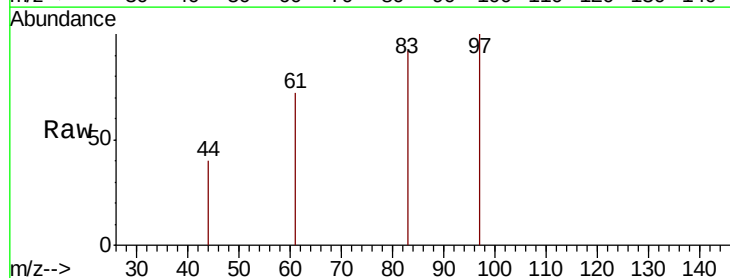
Ion Ratio Lower Upper

97 100

99 0.0 45.8 85.2#

83 91.9 67.9 126.1

85 0.0 42.8 79.6#

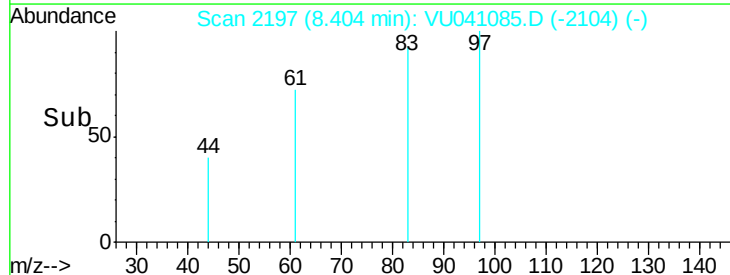
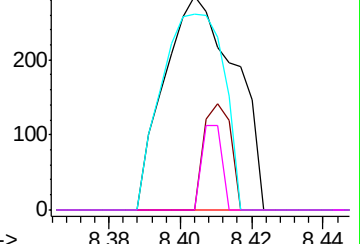


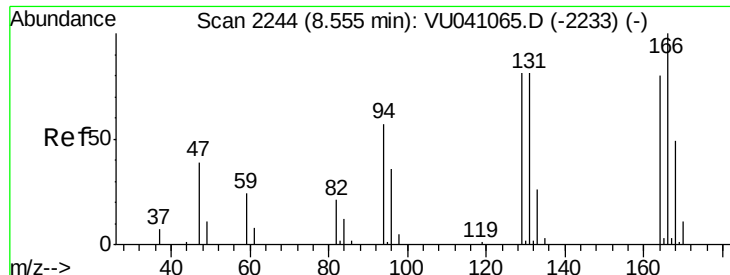
Abundance Ion 96.95 (96.65 to 97.65): VU041085.D (-2185) (-)

Ion 99.05 (98.75 to 99.75): VU041085.D (-2185) (-)

Ion 82.95 (82.65 to 83.65): VU041085.D (-2185) (-)

Ion 85.00 (84.70 to 85.70): VU041085.D (-2185) (-)





#47

Tetrachloroethene

Concen: 21.316 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. 0.00 min

Lab File: VU041085.D

Acq: 03 Nov 2020 18:08

Instrument :

MSVOA_U

ClientSampleId :

C0AA2

Tot Ion:164 Resp: 60331

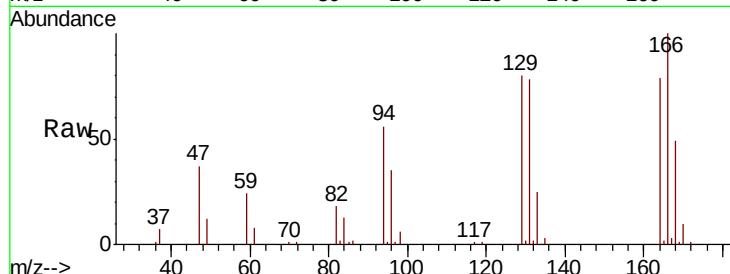
Ion Ratio Lower Upper

164 100

129 101.9 70.3 130.7

131 98.7 70.8 131.4

166 127.0 92.0 170.8

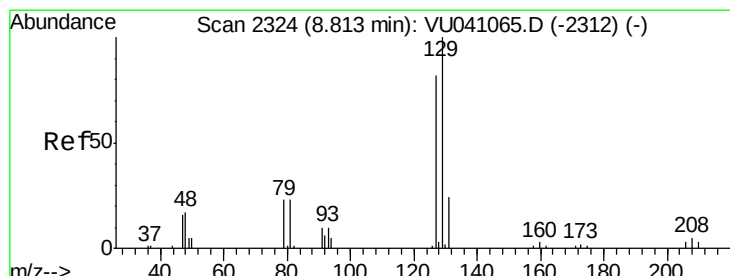
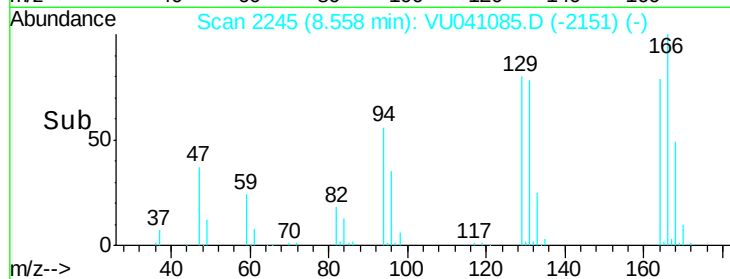
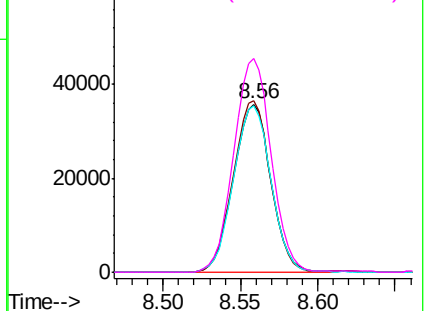


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V



#49

Dibromochloromethane

Concen: 17.347 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. -0.25 min

Lab File: VU041085.D

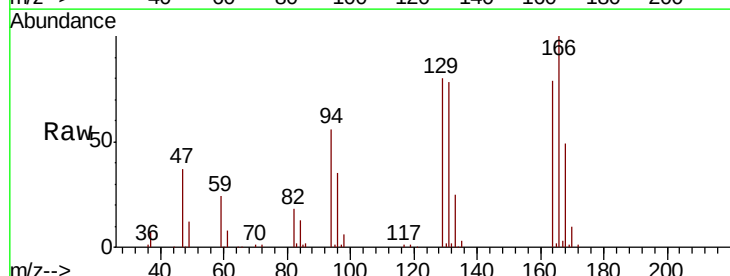
Acq: 03 Nov 2020 18:08

Tgt Ion:129 Resp: 61373

Ion Ratio Lower Upper

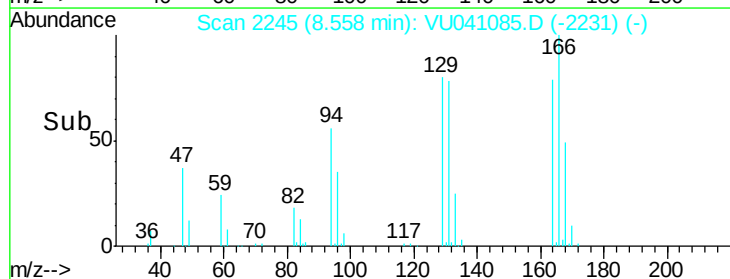
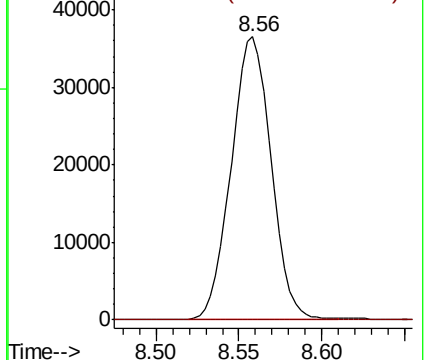
129 100

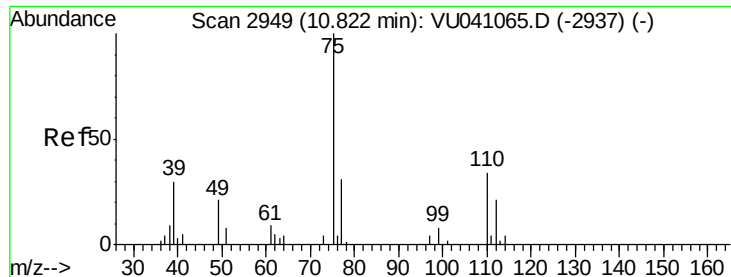
127 0.0 53.4 99.2#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V





#59

1,2,3-Trichloropropane

Concen: 0.964 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.98 min

Lab File: VU041085.D

Acq: 03 Nov 2020 18:08

Instrument :

MSVOA_U

ClientSampleId :

C0AA2

Tot Ion: 75 Resp: 2940

Ion Ratio Lower Upper

75 100

77 36.7 25.7 38.5

