

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U101920\
 Data File : VU040796.D
 Acq On : 19 Oct 2020 11:50
 Operator : SY/MD
 Sample : L4419-04
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 C0AH1

Quant Time: Oct 20 01:36:33 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR100820WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Oct 20 01:28:45 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	125092	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	129855	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	54475	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	29239	2.82	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	56.40%
7) Chloroethane-d5	1.92	69	31846	3.98	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	79.60%
11) 1,1-Dichloroethene-d2	2.58	63	49467	2.44	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	48.80%#
20) 2-Butanone-d5	4.66	46	167962	50.64	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	101.28%
24) Chloroform-d	5.08	84	83697	4.60	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.00%
26) 1,2-Dichloroethane-d4	5.72	65	51763	4.67	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.40%
32) Benzene-d6	5.74	84	139078	3.97	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	79.40%
36) 1,2-Dichloropropane-d6	6.70	67	50408	4.34	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	86.80%
41) Toluene-d8	7.91	98	105440	3.36	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	67.20%#
43) trans-1,3-Dichloropropene-	8.19	79	19065	3.87	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	77.40%
46) 2-Hexanone-d5	8.64	63	112614	44.37	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	88.74%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	47987	4.60	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	92.00%
64) 1,2-Dichlorobenzene-d4	12.19	152	47687	4.72	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	94.40%

Target Compounds

					Ovalue
3) Chloromethane	1.49	50	5831	0.550 ug/L #	43
5) Vinyl chloride	1.61	62	1342	0.120 ug/L #	1
8) Chloroethane	1.95	64	877	0.123 ug/L #	50
12) 1,1-Dichloroethene	2.59	96	939	0.105 ug/L #	1
14) Carbon disulfide	2.81	76	2098	0.084 ug/L	96
22) cis-1,2-Dichloroethene	4.68	96	3795	0.377 ug/L	91
25) Chloroform	5.11	83	2580	0.131 ug/L	85
27) 1,2-Dichloroethane	5.74	62	874	0.063 ug/L #	77
31) Carbon tetrachloride	5.54	117	3173	0.212 ug/L	99
33) Benzene	5.75	78	1152	0.028 ug/L	100
34) Trichloroethene	6.56	95	4976	0.460 ug/L	92
35) Methylcyclohexane	6.70	83	12273	0.800 ug/L #	14
37) 1,2-Dichloropropane	6.70	63	5823	0.501 ug/L #	87
39) cis-1,3-Dichloropropene	7.58	75	1308	0.082 ug/L	98
44) trans-1,3-Dichloropropene	8.19	75	877	0.060 ug/L #	36
47) Tetrachloroethene	8.56	164	4722	0.612 ug/L	92
49) Dibromochloromethane	8.56	129	4742	0.473 ug/L #	9

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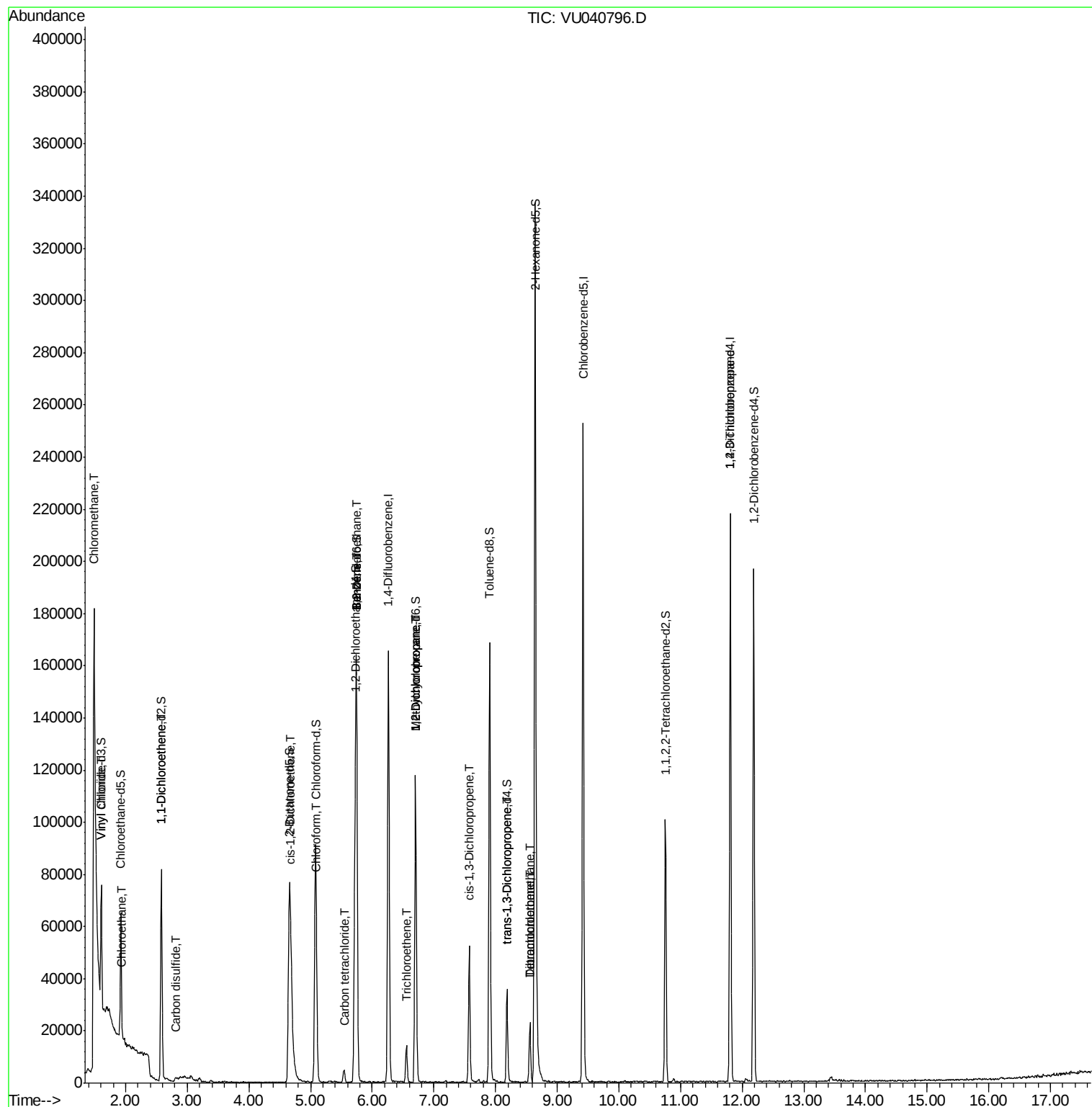
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
59) 1,2,3-Trichloropropane	11.81	75	7009	0.821	ug/L	90

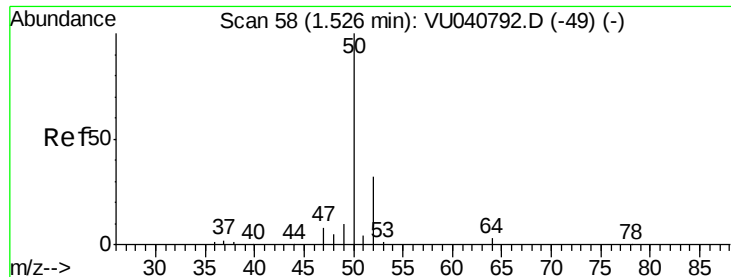
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.550 ug/L

RT: 1.49 min Scan# 46

Delta R.T. -0.04 min

Lab File: VU040796.D

Acq: 19 Oct 2020 11:50

Instrument :

MSVOA_U

ClientSampleId :

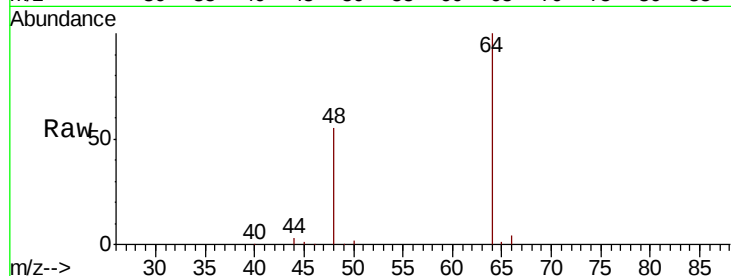
C0AH1

Tot Ion: 50 Resp: 5831

Ion Ratio Lower Upper

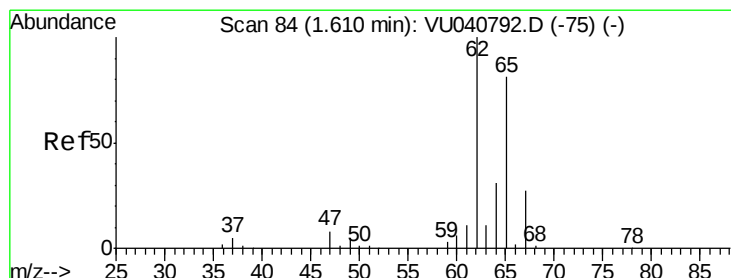
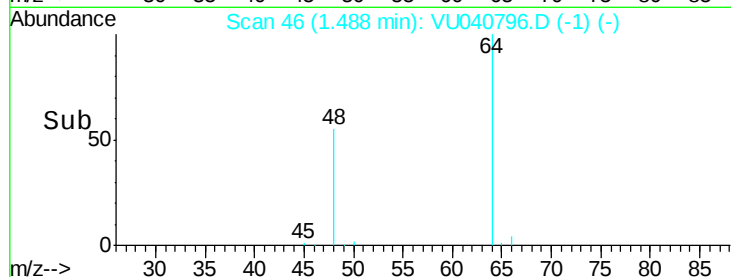
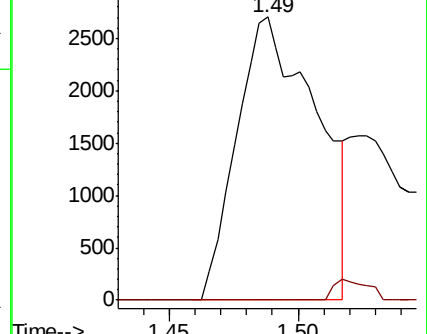
50 100

52 0.0 21.9 40.7#



Abundance Ion 50.05 (49.75 to 50.75): VU040792.D (-49) (-)

Ion 52.05 (51.75 to 52.75): VU040792.D (-49) (-)



#5

Vinyl chloride

Concen: 0.120 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU040796.D

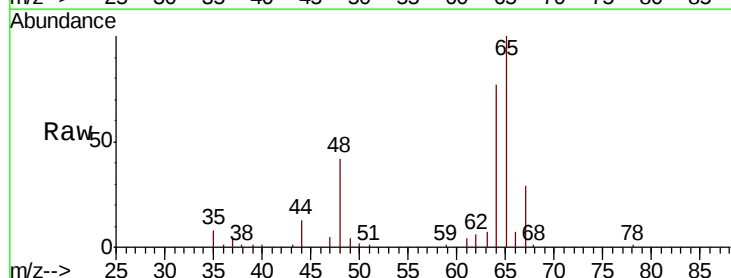
Acq: 19 Oct 2020 11:50

Tgt Ion: 62 Resp: 1342

Ion Ratio Lower Upper

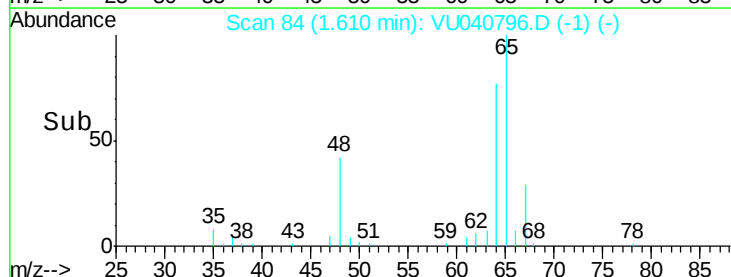
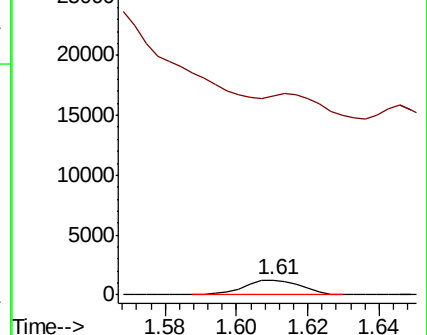
62 100

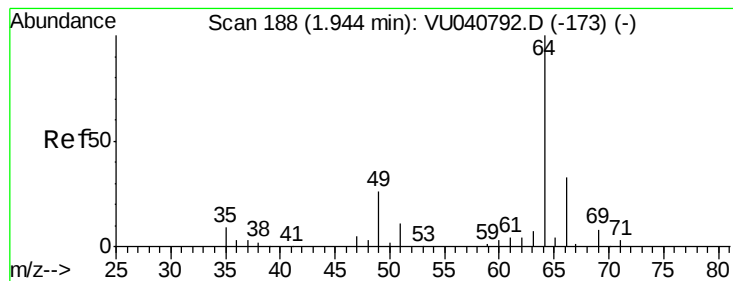
64 1316.6 23.7 44.1#



Abundance Ion 62.00 (61.70 to 62.70): VU040792.D (-75) (-)

Ion 64.10 (63.80 to 64.80): VU040792.D (-75) (-)





#8

Chloroethane

Concen: 0.123 ug/L

RT: 1.95 min Scan# 189

Delta R.T. 0.00 min

Lab File: VU040796.D

Acq: 19 Oct 2020 11:50

Instrument :

MSVOA_U

ClientSampled :

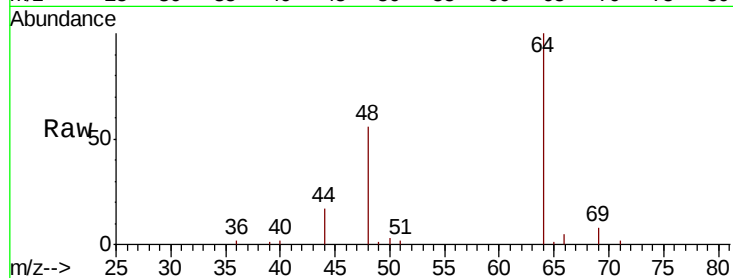
C0AH1

Tot Ion: 64 Resp: 877

Ion Ratio Lower Upper

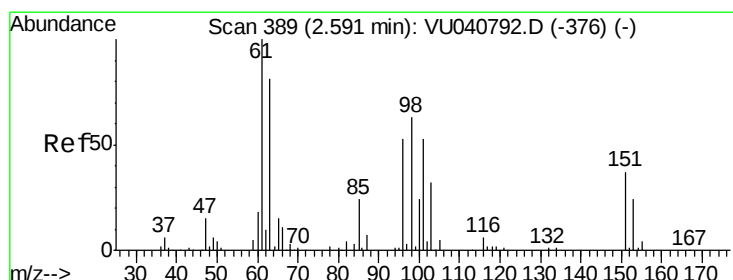
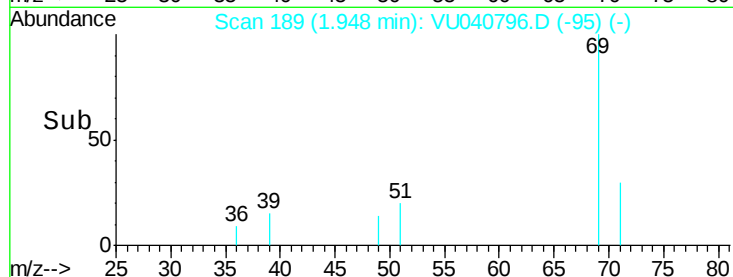
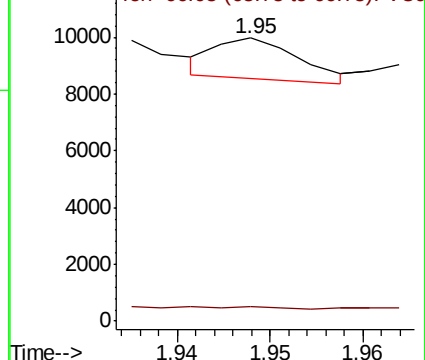
64 100

66 5.0 23.3 43.3#



Abundance Ion 64.10 (63.80 to 64.80): VU0

Ion 66.05 (65.75 to 66.75): VU0



#12

1,1-Dichloroethene

Concen: 0.105 ug/L

RT: 2.59 min Scan# 389

Delta R.T. 0.00 min

Lab File: VU040796.D

Acq: 19 Oct 2020 11:50

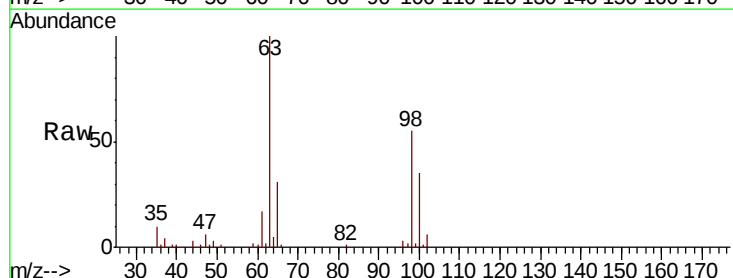
Tgt Ion: 96 Resp: 939

Ion Ratio Lower Upper

96 100

61 614.5 128.8 239.2#

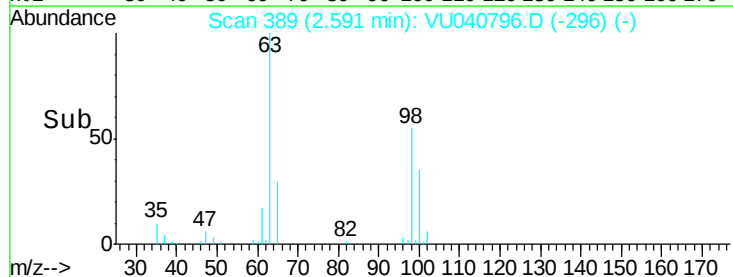
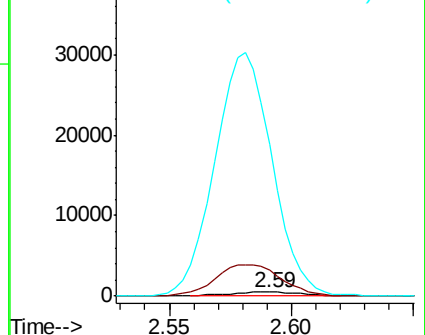
63 3614.6 84.6 157.2#

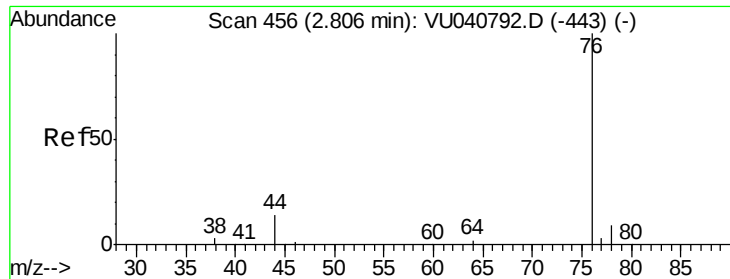


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#14

Carbon disulfide

Concen: 0.084 ug/L

RT: 2.81 min Scan# 458

Delta R.T. 0.01 min

Lab File: VU040796.D

Acq: 19 Oct 2020 11:50

Instrument :

MSVOA_U

ClientSampleId :

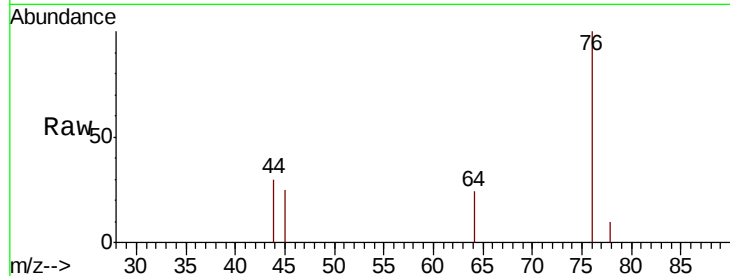
C0AH1

Tot Ion: 76 Resp: 2098

Ion Ratio Lower Upper

76 100

78 9.8 6.8 10.2



Abundance Ion 76.05 (75.75 to 76.75): VU040796.D (-363) (-)

Ion 78.00 (77.70 to 78.70): VU040796.D (-363) (-)

2.81

1200

1000

800

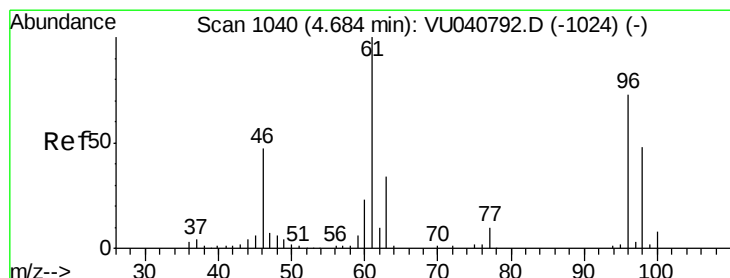
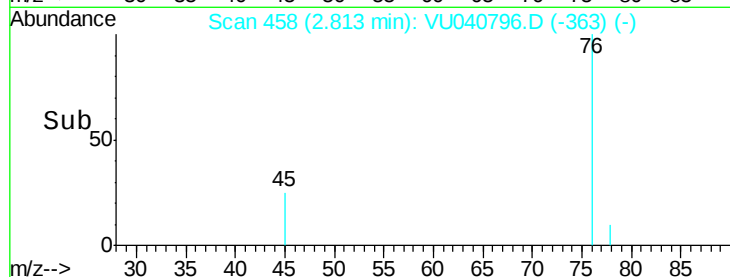
600

400

200

0

Time--> 2.75 2.80 2.85



#22

cis-1,2-Dichloroethene

Concen: 0.377 ug/L

RT: 4.68 min Scan# 1040

Delta R.T. 0.00 min

Lab File: VU040796.D

Acq: 19 Oct 2020 11:50

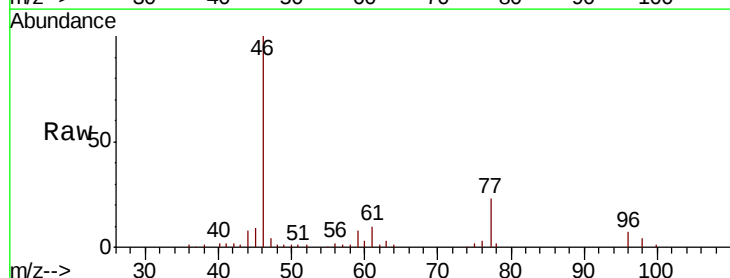
Tgt Ion: 96 Resp: 3795

Ion Ratio Lower Upper

96 100

61 153.7 99.8 185.4

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU040796.D (-947) (-)

Ion 61.05 (60.75 to 61.75): VU040796.D (-947) (-)

Ion 68.15 (67.85 to 68.85): VU040796.D (-947) (-)

4.68

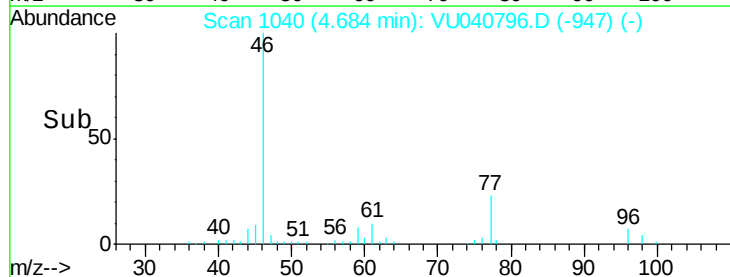
3000

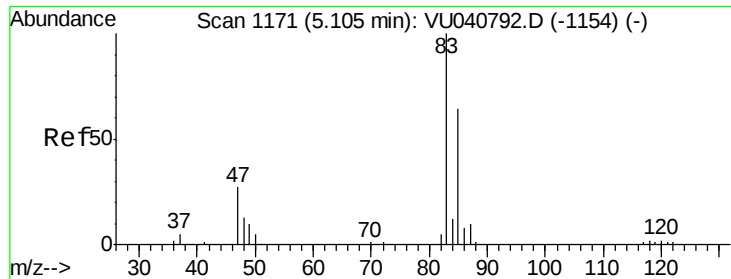
2000

1000

0

Time--> 4.65 4.70 4.75

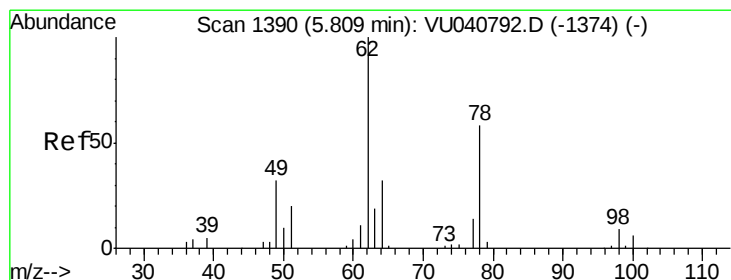
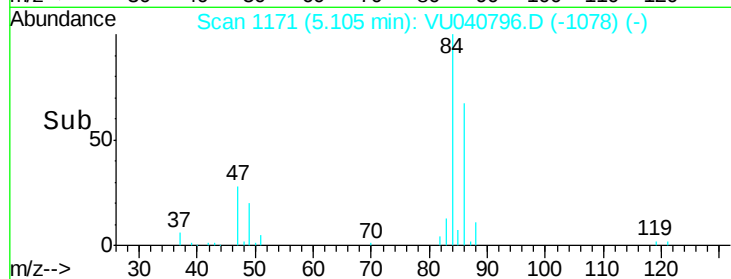
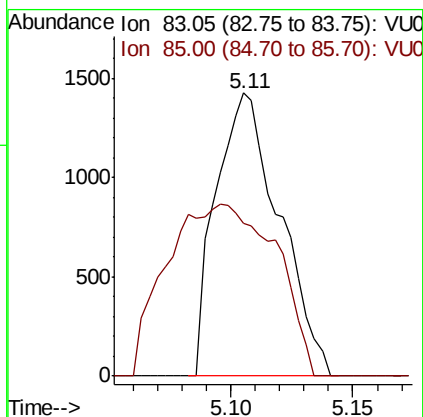
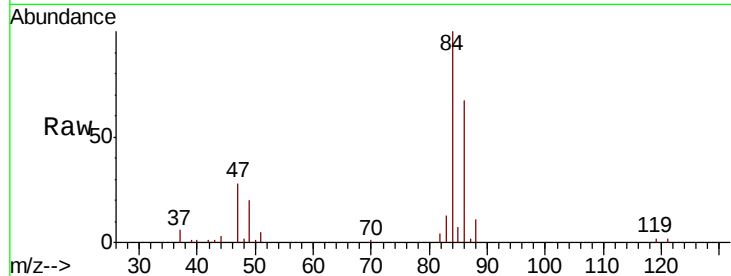




#25
Chloroform
Concen: 0.131 ug/L
RT: 5.11 min Scan# 1171
Delta R.T. 0.00 min
Lab File: VU040796.D
Acq: 19 Oct 2020 11:50

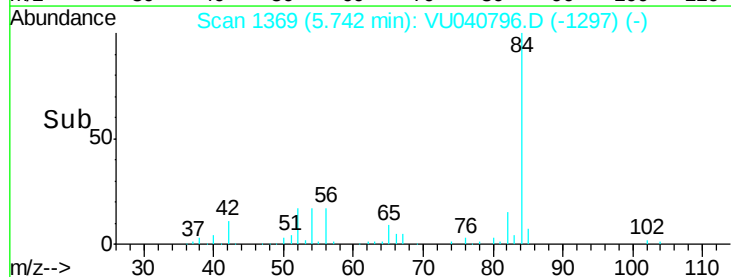
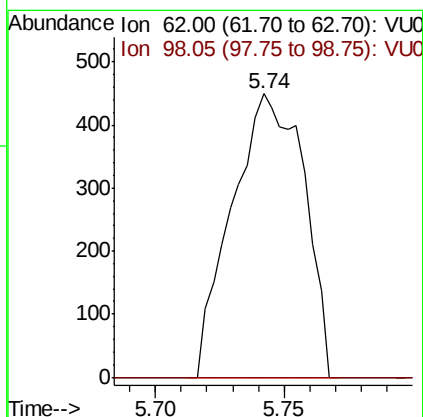
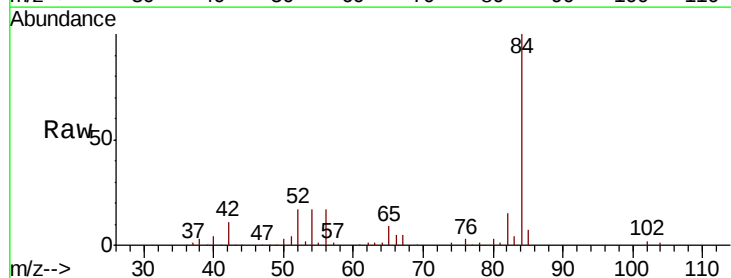
Instrument :
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ClientSampleId :
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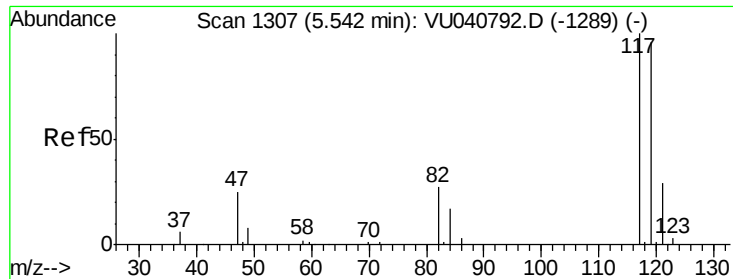
Tot Ion: 83 Resp: 2580
Ion Ratio Lower Upper
83 100
85 54.2 46.5 86.5



#27
1,2-Dichloroethane
Concen: 0.063 ug/L
RT: 5.74 min Scan# 1369
Delta R.T. -0.07 min
Lab File: VU040796.D
Acq: 19 Oct 2020 11:50

Tgt Ion: 62 Resp: 874
Ion Ratio Lower Upper
62 100
98 0.0 6.6 10.0#





#31

Carbon tetrachloride

Concen: 0.212 ug/L

RT: 5.54 min Scan# 1306

Delta R.T. -0.00 min

Lab File: VU040796.D

Acq: 19 Oct 2020 11:50

Instrument :

MSVOA_U

ClientSampleId :

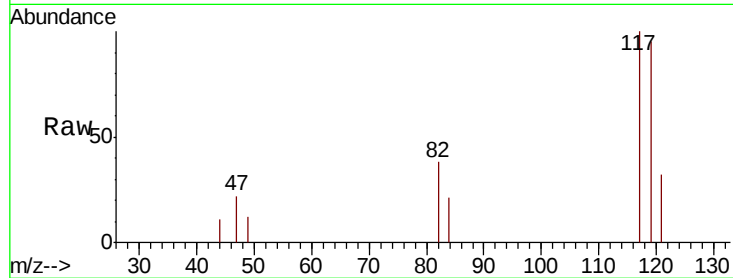
C0AH1

Tot Ion:117 Resp: 3173

Ion Ratio Lower Upper

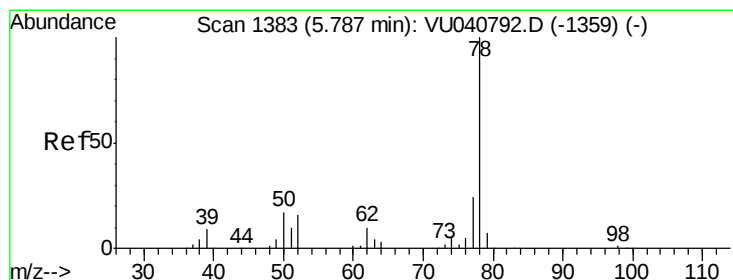
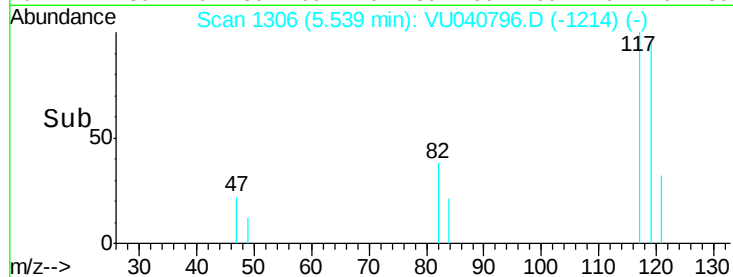
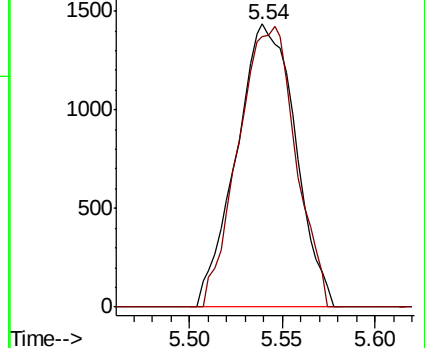
117 100

119 95.7 76.2 114.2



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 0.028 ug/L

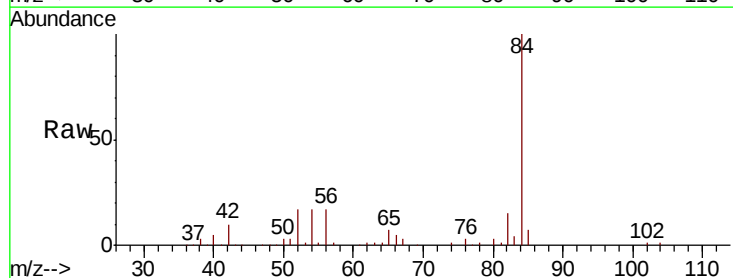
RT: 5.75 min Scan# 1370

Delta R.T. -0.04 min

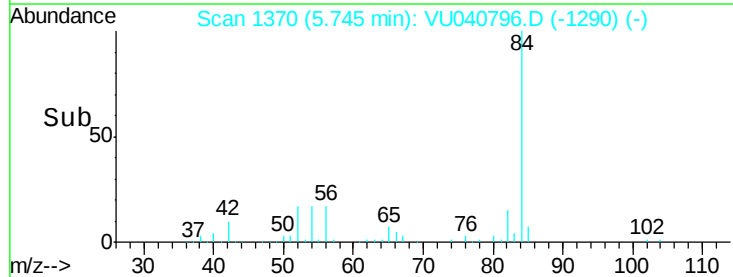
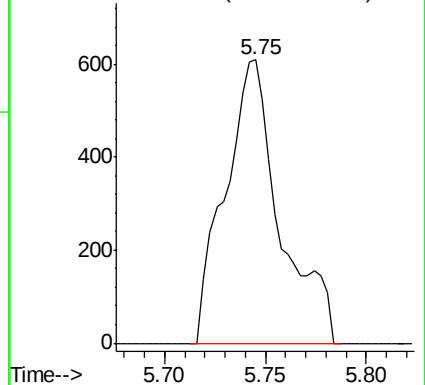
Lab File: VU040796.D

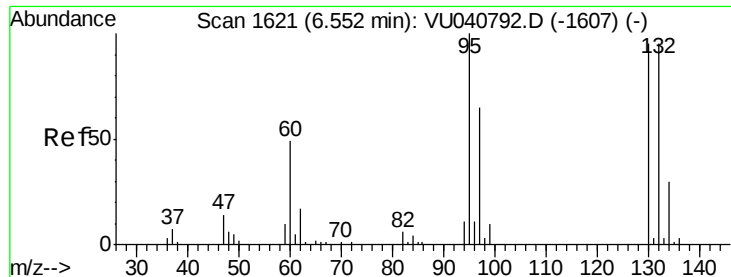
Acq: 19 Oct 2020 11:50

Tgt Ion: 78 Resp: 1152



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 0.460 ug/L

RT: 6.56 min Scan# 1623

Delta R.T. 0.01 min

Lab File: VU040796.D

Acq: 19 Oct 2020 11:50

Instrument :

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ClientSampleId :

C0AH1

Tot Ion: 95 Resp: 4976

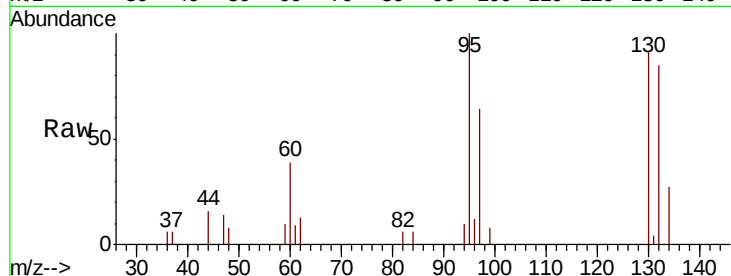
Ion Ratio Lower Upper

95 100

97 63.6 45.5 84.5

132 84.9 67.5 125.4

130 90.7 69.9 129.9

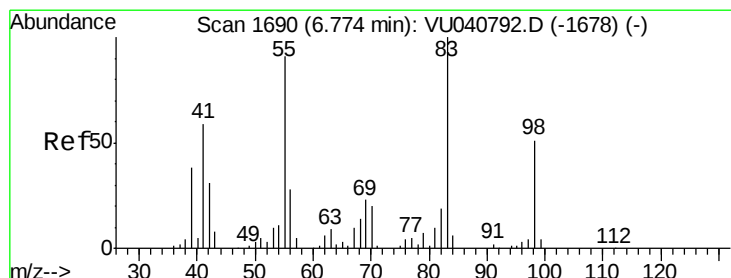
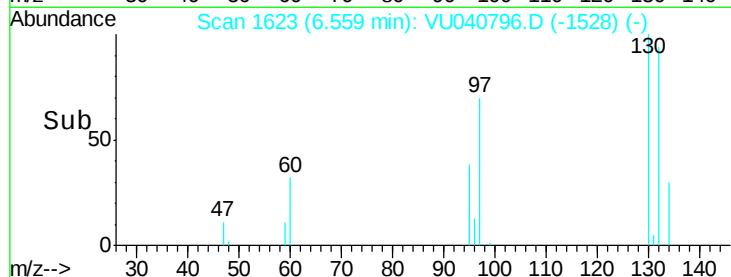
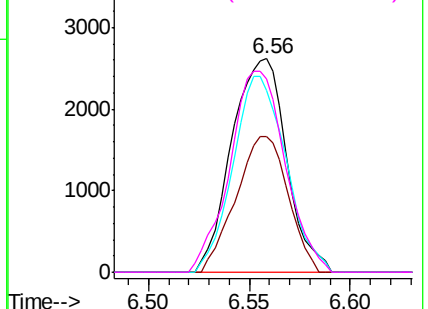


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 0.800 ug/L

RT: 6.70 min Scan# 1668

Delta R.T. -0.07 min

Lab File: VU040796.D

Acq: 19 Oct 2020 11:50

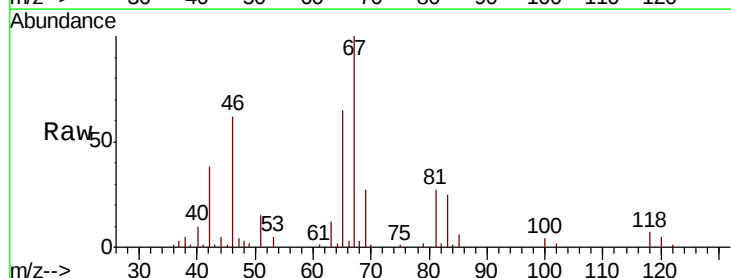
Tgt Ion: 83 Resp: 12273

Ion Ratio Lower Upper

83 100

55 0.0 70.7 106.1#

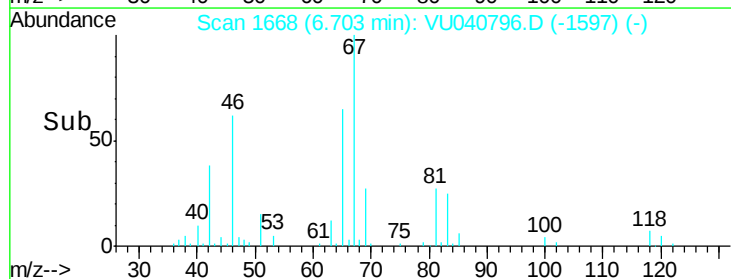
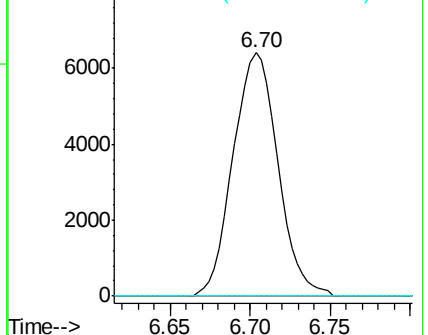
98 0.0 38.4 57.6#

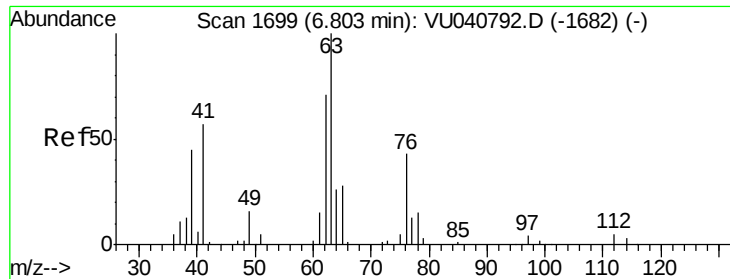


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

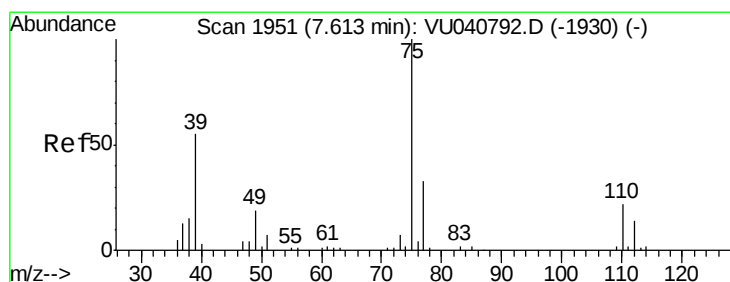
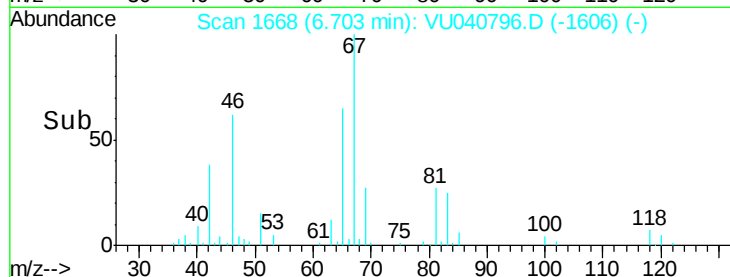
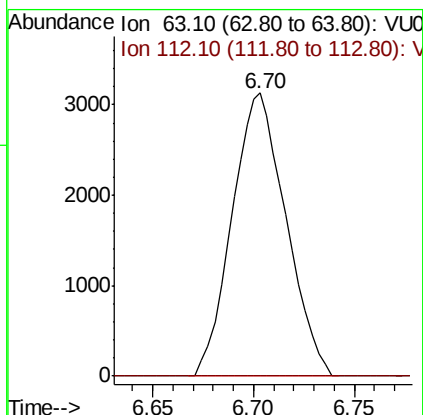
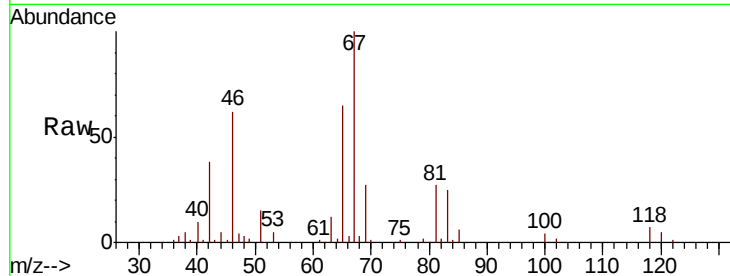




#37
 1,2-Dichloropropane
 Concen: 0.501 ug/L
 RT: 6.70 min Scan# 1668
 Delta R.T. -0.10 min
 Lab File: VU040796.D
 Acq: 19 Oct 2020 11:50

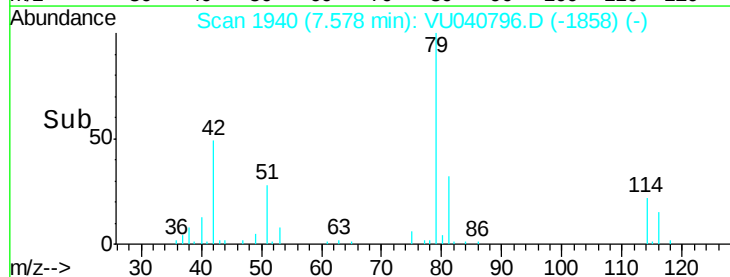
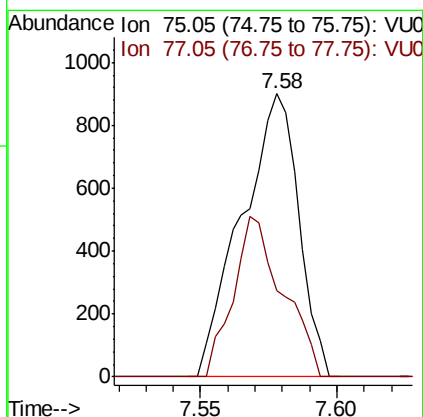
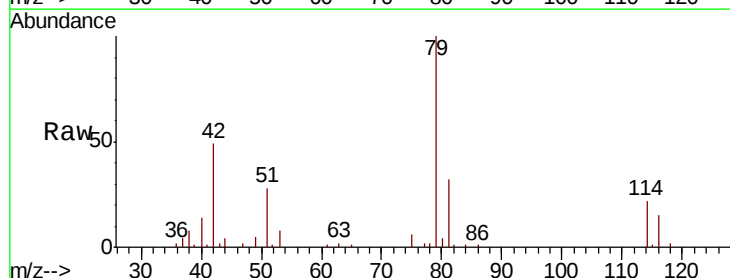
Instrument :
 MSVOA_U
 ClientSampleId :
 C0AH1

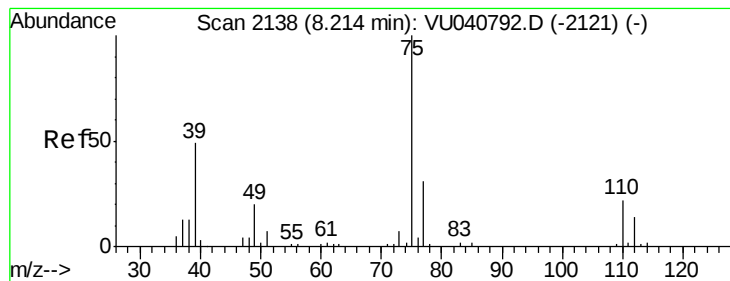
Tot Ion: 63 Resp: 5823
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.5 5.3#



#39
 cis-1,3-Dichloropropene
 Concen: 0.082 ug/L
 RT: 7.58 min Scan# 1940
 Delta R.T. -0.04 min
 Lab File: VU040796.D
 Acq: 19 Oct 2020 11:50

Tgt Ion: 75 Resp: 1308
 Ion Ratio Lower Upper
 75 100
 77 30.3 20.5 38.1





#44

trans-1,3-Dichloropropene

Concen: 0.060 ug/L

RT: 8.19 min Scan# 2129

Delta R.T. -0.03 min

Lab File: VU040796.D

Acq: 19 Oct 2020 11:50

Instrument :

MSVOA_U

ClientSampleId :

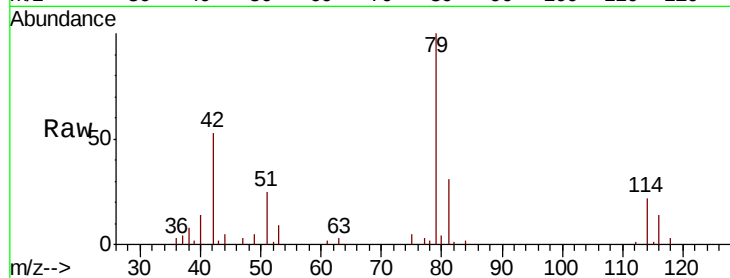
C0AH1

Tot Ion: 75 Resp: 877

Ion Ratio Lower Upper

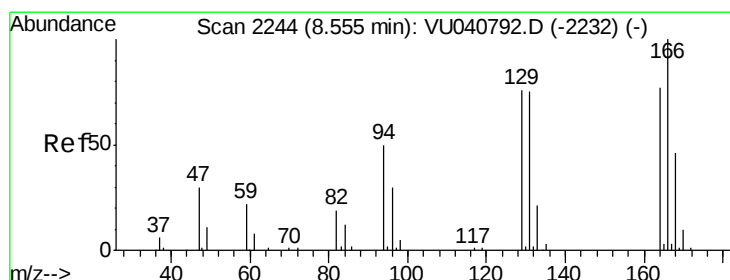
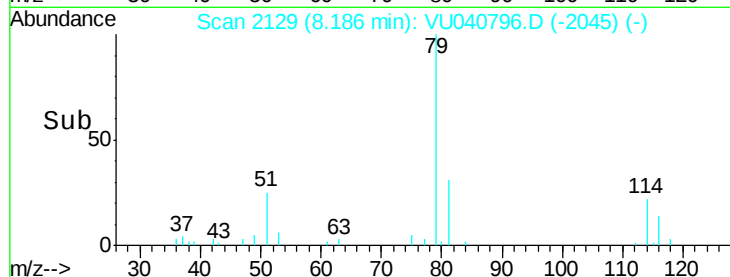
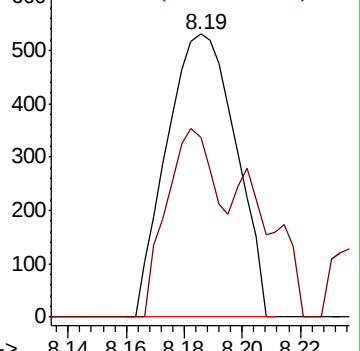
75 100

77 63.5 20.4 38.0#



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0



#47

Tetrachloroethene

Concen: 0.612 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. 0.00 min

Lab File: VU040796.D

Acq: 19 Oct 2020 11:50

Tgt Ion: 164 Resp: 4722

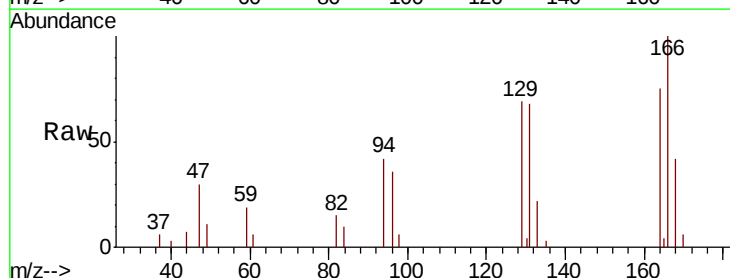
Ion Ratio Lower Upper

164 100

129 92.8 68.8 127.8

131 91.4 66.7 123.9

166 134.2 83.9 155.7

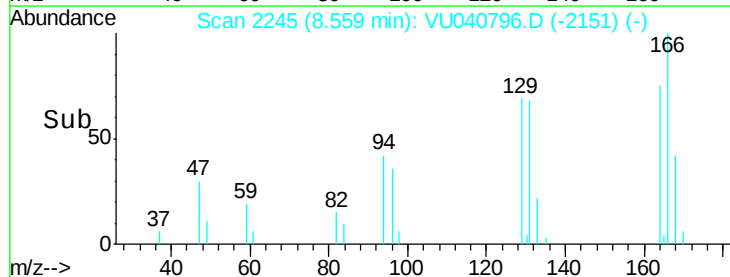
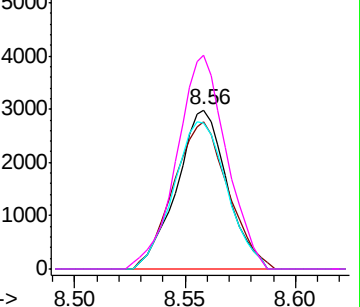


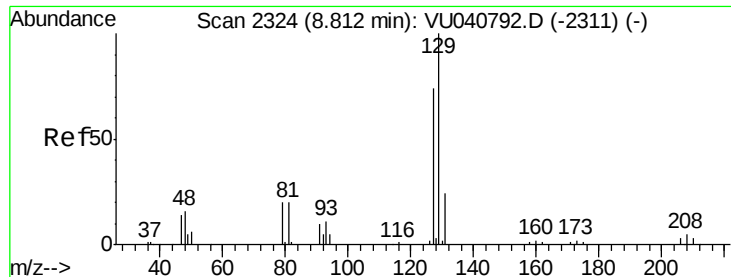
Abundance Ion 163.90 (163.60 to 164.60): V

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: 0.473 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. -0.25 min

Lab File: VU040796.D

Acq: 19 Oct 2020 11:50

Instrument :

MSVOA_U

ClientSampled :

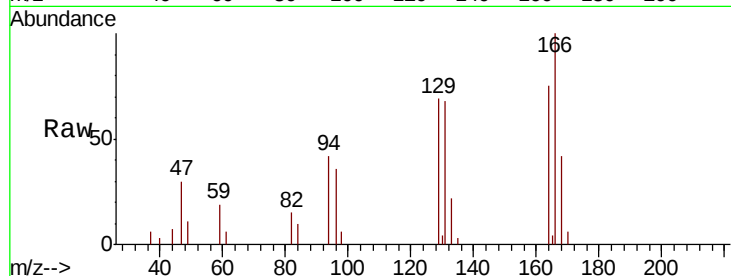
C0AH1

Tot Ion:129 Resp: 4742

Ion Ratio Lower Upper

129 100

127 0.0 55.8 103.6#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

8.56

3000

2500

2000

1500

1000

500

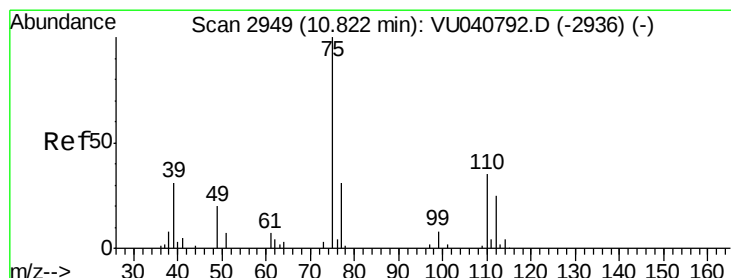
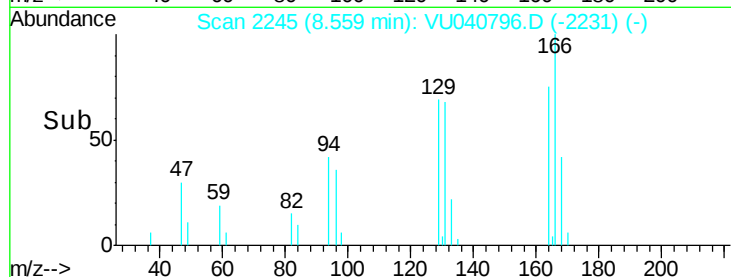
0

Time-->

8.50

8.55

8.60



#59

1,2,3-Trichloropropane

Concen: 0.821 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.98 min

Lab File: VU040796.D

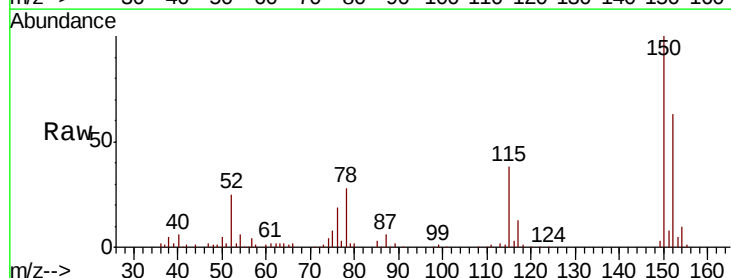
Acq: 19 Oct 2020 11:50

Tgt Ion: 75 Resp: 7009

Ion Ratio Lower Upper

75 100

77 38.5 26.4 39.6



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

11.81

5000

4000

3000

2000

1000

0

Time-->

11.75

11.80

11.85

