

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U102020\
 Data File : VU040857.D
 Acq On : 20 Oct 2020 19:06
 Operator : SY/MD
 Sample : L4428-16
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 ETZ50

Quant Time: Oct 21 00:00:08 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR100820WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Oct 20 23:49:45 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	114355	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	123210	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	52459	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	42256	4.46	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	89.20%
7) Chloroethane-d5	1.92	69	37281	5.10	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	102.00%
11) 1,1-Dichloroethene-d2	2.58	63	64558	3.49	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	69.80%
20) 2-Butanone-d5	4.65	46	172310	56.83	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	113.66%
24) Chloroform-d	5.08	84	89644	5.39	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	107.80%
26) 1,2-Dichloroethane-d4	5.72	65	54179	5.35	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	107.00%
32) Benzene-d6	5.74	84	156502	4.71	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.20%
36) 1,2-Dichloropropane-d6	6.70	67	54376	4.93	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	98.60%
41) Toluene-d8	7.91	98	125195	4.21	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	84.20%
43) trans-1,3-Dichloropropene-	8.19	79	20345	4.35	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	87.00%
46) 2-Hexanone-d5	8.64	63	125029	51.91	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	103.82%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	51658	5.22	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	104.40%
64) 1,2-Dichlorobenzene-d4	12.19	152	53236	5.47	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	109.40%

Target Compounds

				Ovalue
3) Chloromethane	1.48	50	9834	1.015 ug/L # 43
5) Vinyl chloride	1.61	62	3272	0.321 ug/L # 1
8) Chloroethane	1.98	64	556	0.086 ug/L # 49
10) 1,1,2-Trichloro-1,2,2-trif	2.58	101	516	0.054 ug/L # 20
12) 1,1-Dichloroethene	2.58	96	507	0.062 ug/L # 1
13) Acetone	2.66	43	3288	1.399 ug/L # 80
14) Carbon disulfide	2.81	76	1797	0.079 ug/L # 84
22) cis-1,2-Dichloroethene	4.69	96	12260	1.331 ug/L # 95
34) Trichloroethene	6.56	95	1169	0.114 ug/L # 96
35) Methylcyclohexane	6.70	83	13322	0.916 ug/L # 14
37) 1,2-Dichloropropane	6.70	63	6021	0.546 ug/L # 87
39) cis-1,3-Dichloropropene	7.57	75	1482	0.098 ug/L # 55
44) trans-1,3-Dichloropropene	8.19	75	1032	0.074 ug/L # 56
47) Tetrachloroethene	8.56	164	3270	0.447 ug/L # 94
49) Dibromochloromethane	8.56	129	3096	0.326 ug/L # 9
53) m,p-Xylene	9.70	106	1536	0.097 ug/L # 83
59) 1,2,3-Trichloropropane	11.81	75	7181	0.886 ug/L # 90

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Response via : Initial Calibration

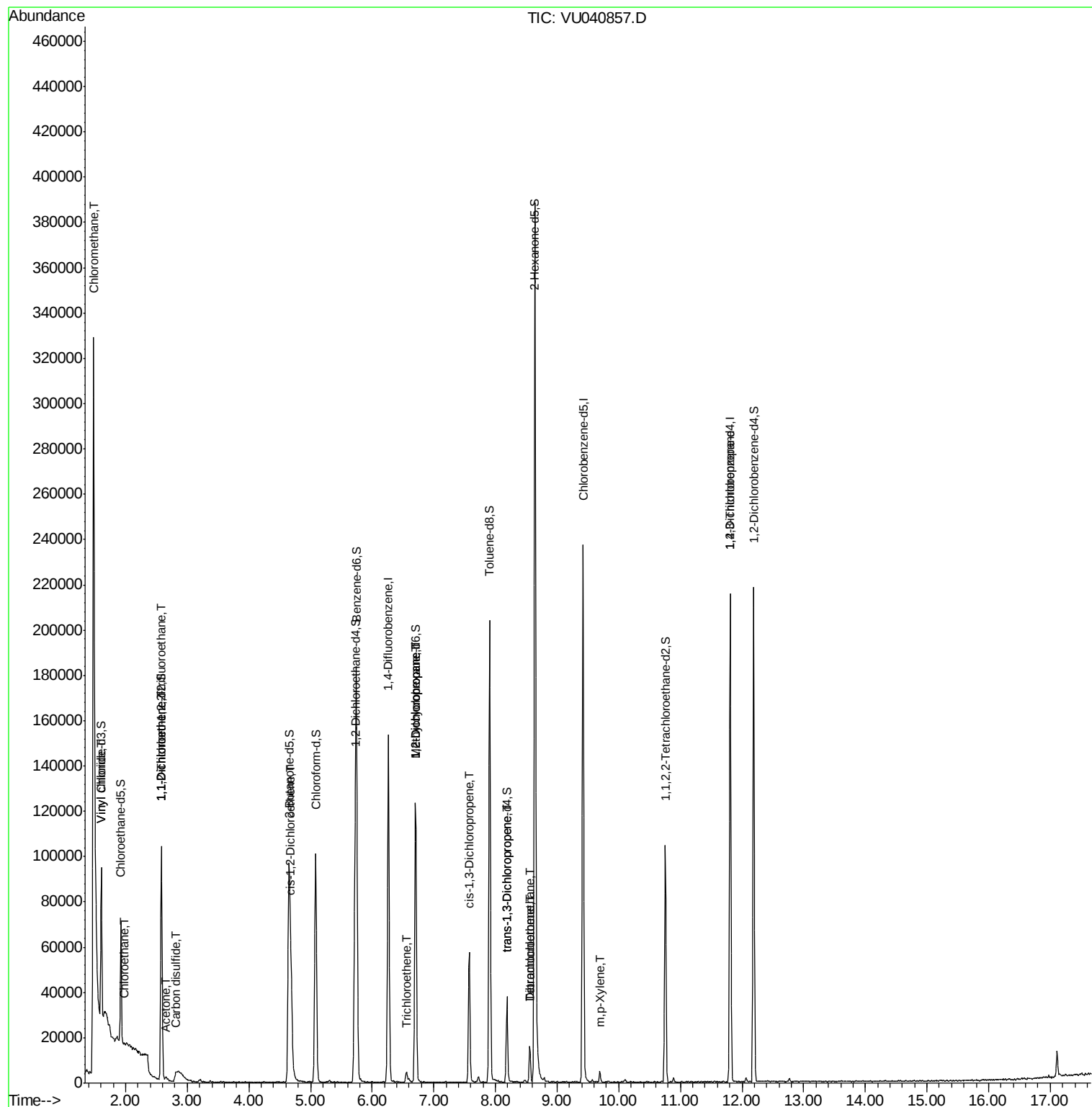
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

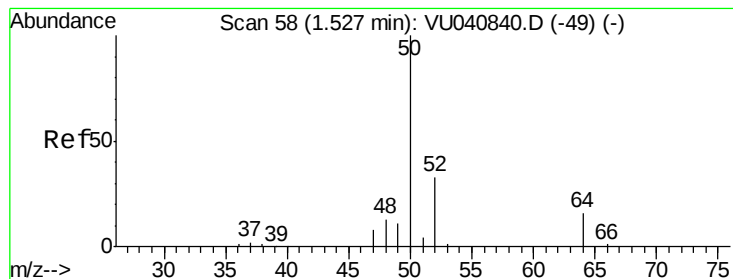
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 1.015 ug/L

RT: 1.48 min Scan# 43

Delta R.T. -0.05 min

Lab File: VU040857.D

Acq: 20 Oct 2020 19:06

Instrument :

MSVOA_U

ClientSampled :

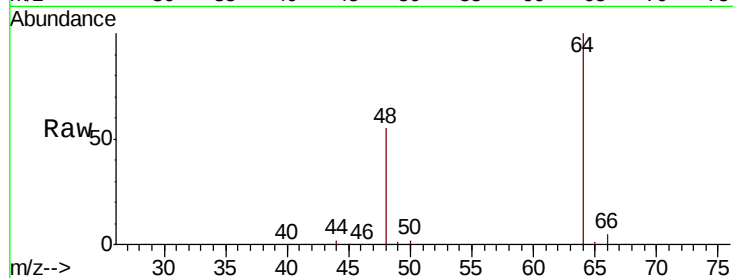
ETZ50

Tot Ion: 50 Resp: 9834

Ion Ratio Lower Upper

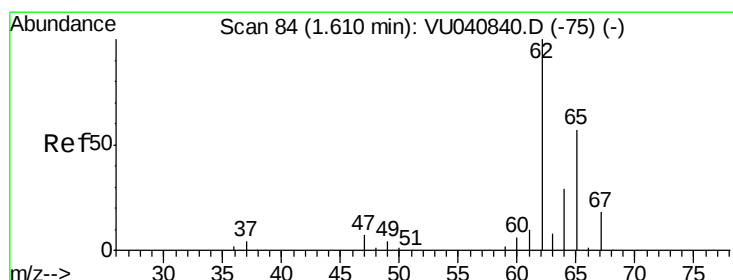
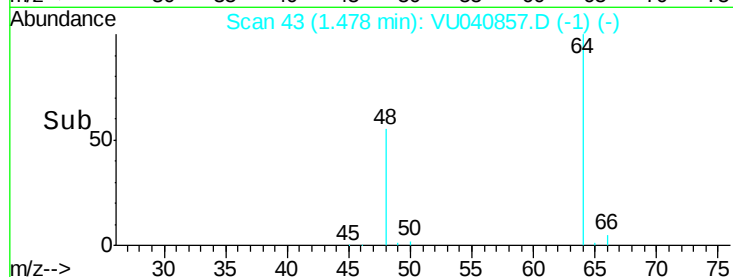
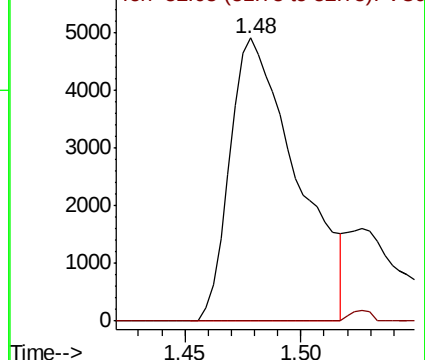
50 100

52 0.0 21.9 40.7#



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0



#5

Vinyl chloride

Concen: 0.321 ug/L

RT: 1.61 min Scan# 84

Delta R.T. -0.00 min

Lab File: VU040857.D

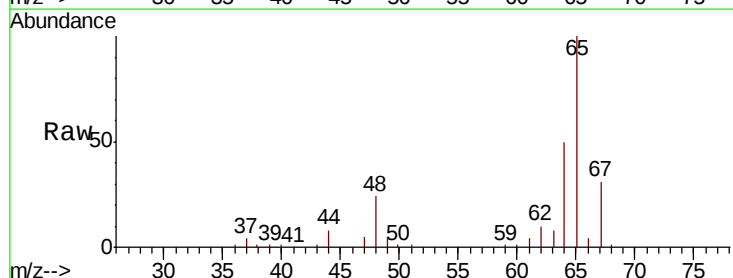
Acq: 20 Oct 2020 19:06

Tgt Ion: 62 Resp: 3272

Ion Ratio Lower Upper

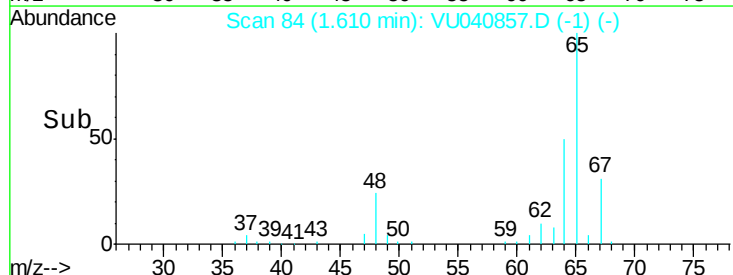
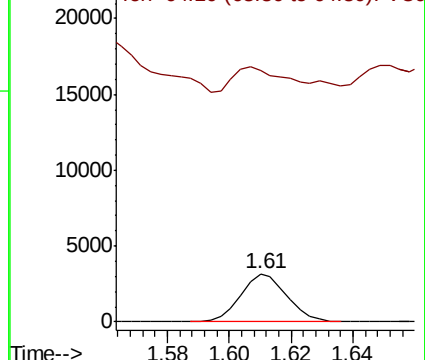
62 100

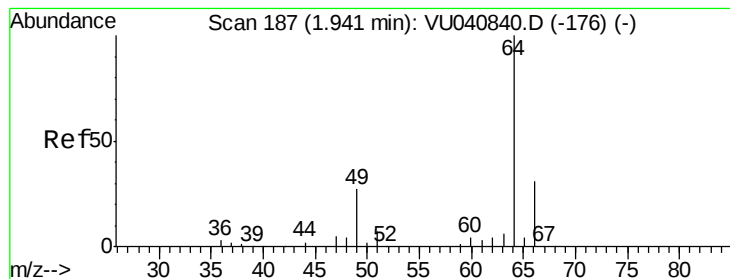
64 521.8 23.7 44.1#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0





#8

Chloroethane

Concen: 0.086 ug/L

RT: 1.98 min Scan# 200

Delta R.T. 0.04 min

Lab File: VU040857.D

Acq: 20 Oct 2020 19:06

Instrument :

MSVOA_U

ClientSampleId :

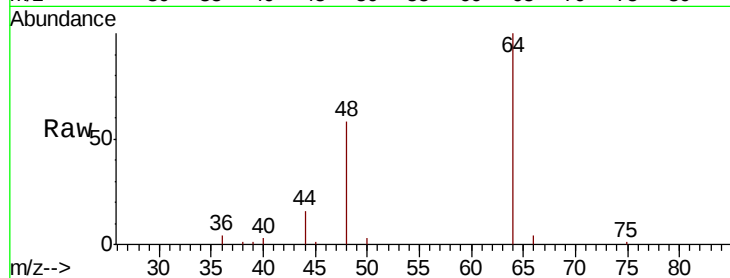
ETZ50

Tot Ion: 64 Resp: 556

Ion Ratio Lower Upper

64 100

66 4.4 23.3 43.3#



Abundance Ion 64.10 (63.80 to 64.80): VU0

Ion 66.05 (65.75 to 66.75): VU0

1.98

8000

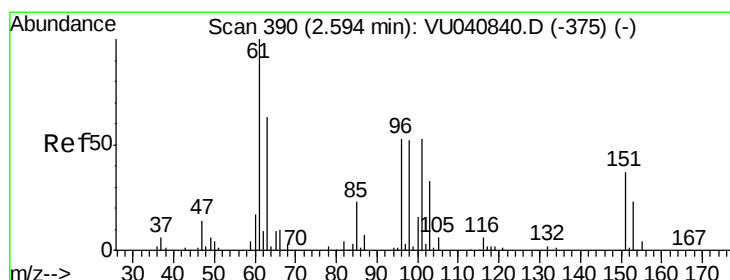
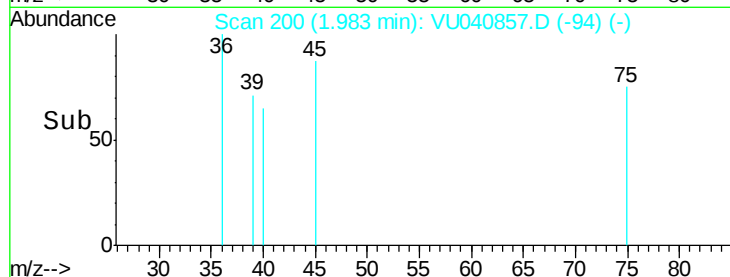
6000

4000

2000

0

Time-->



#10

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

Concen: 0.054 ug/L

RT: 2.58 min Scan# 387

Delta R.T. -0.01 min

Lab File: VU040857.D

Acq: 20 Oct 2020 19:06

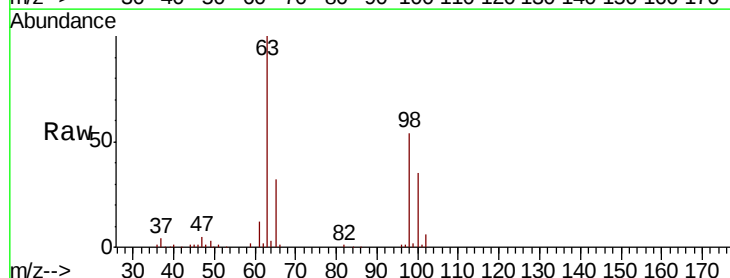
Tgt Ion:101 Resp: 516

Ion Ratio Lower Upper

101 100

85 0.0 36.7 55.1#

151 0.0 58.0 87.0#



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

500

400

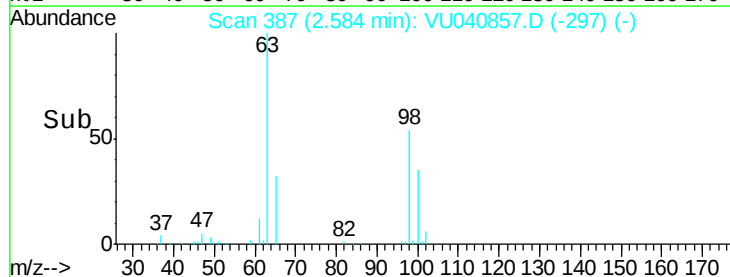
300

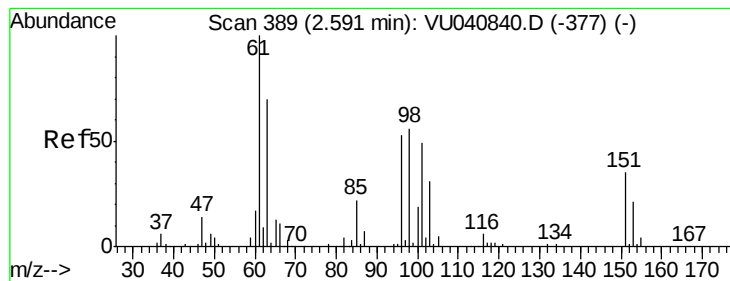
200

100

0

Time-->





#12

1,1-Dichloroethene

Concen: 0.062 ug/L

RT: 2.58 min Scan# 386

Delta R.T. -0.01 min

Lab File: VU040857.D

Acq: 20 Oct 2020 19:06

Instrument :

MSVOA_U

ClientSampled :

ETZ50

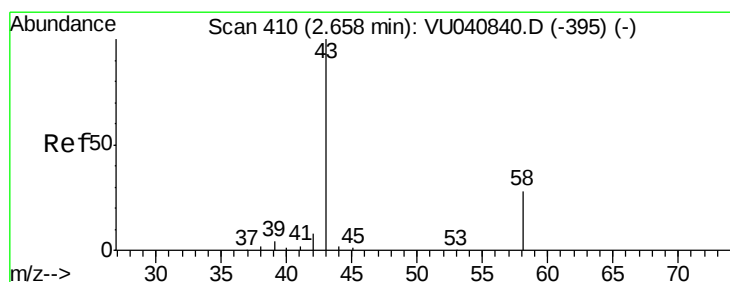
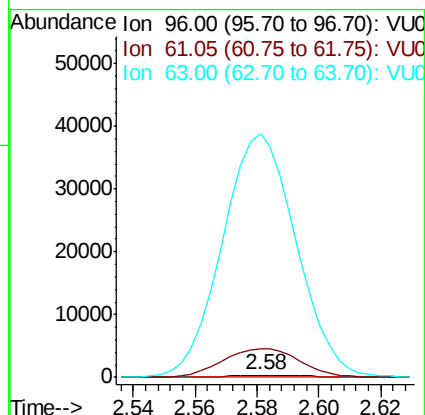
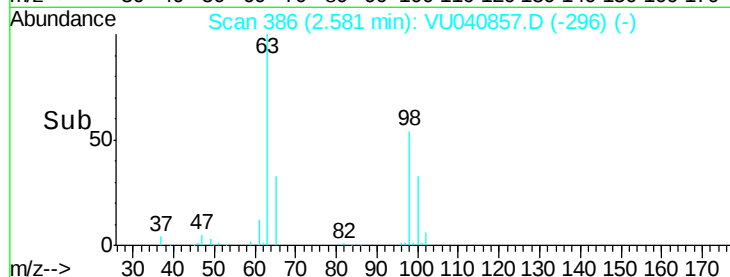
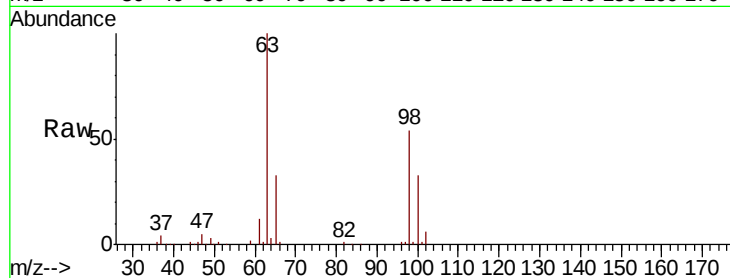
Tot Ion: 96 Resp: 507

Ion Ratio Lower Upper

96 100

61 1483.7 128.8 239.2#

63 12682.4 84.6 157.2#



#13

Acetone

Concen: 1.399 ug/L

RT: 2.66 min Scan# 411

Delta R.T. 0.00 min

Lab File: VU040857.D

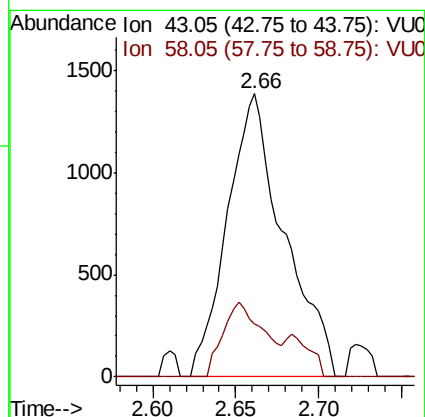
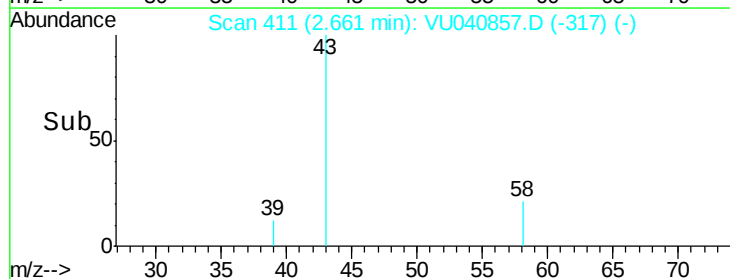
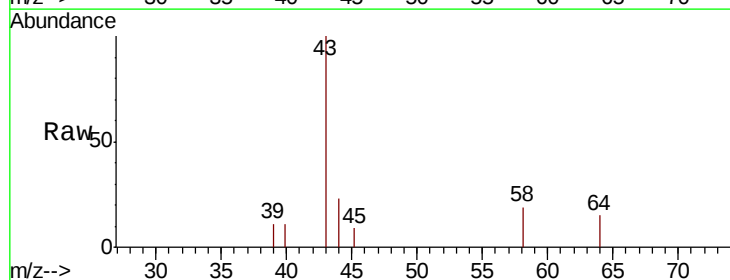
Acq: 20 Oct 2020 19:06

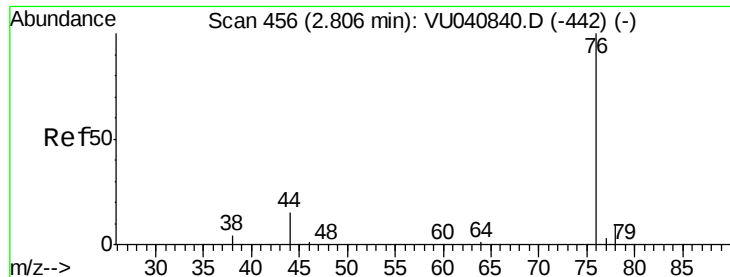
Tgt Ion: 43 Resp: 3288

Ion Ratio Lower Upper

43 100

58 19.3 0.0 60.6





#14

Carbon disulfide

Concen: 0.079 ug/L

RT: 2.81 min Scan# 458

Delta R.T. 0.01 min

Lab File: VU040857.D

Acq: 20 Oct 2020 19:06

Instrument :

MSVOA_U

ClientSampled :

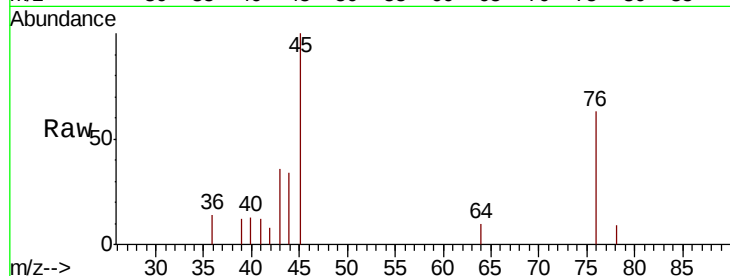
ETZ50

Tot Ion: 76 Resp: 1797

Ion Ratio Lower Upper

76 100

78 14.2 6.8 10.2#



Abundance Ion 76.05 (75.75 to 76.75): VU040840.D (-442) (-)

Ion 78.00 (77.70 to 78.70): VU040840.D (-442) (-)

2.81

1000

800

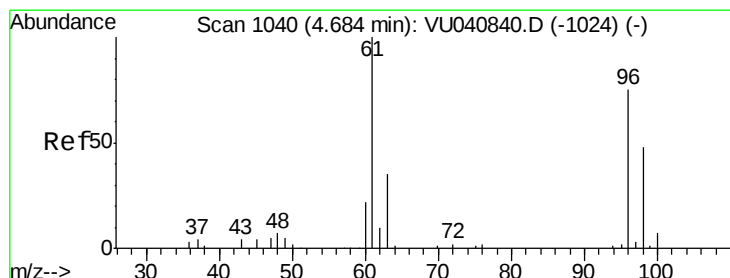
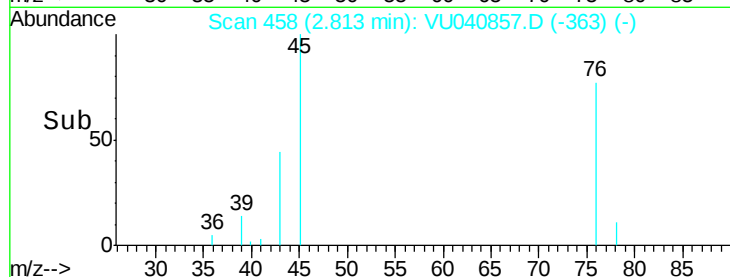
600

400

200

0

Time--> 2.75 2.80 2.85



#22

cis-1,2-Dichloroethene

Concen: 1.331 ug/L

RT: 4.69 min Scan# 1041

Delta R.T. 0.00 min

Lab File: VU040857.D

Acq: 20 Oct 2020 19:06

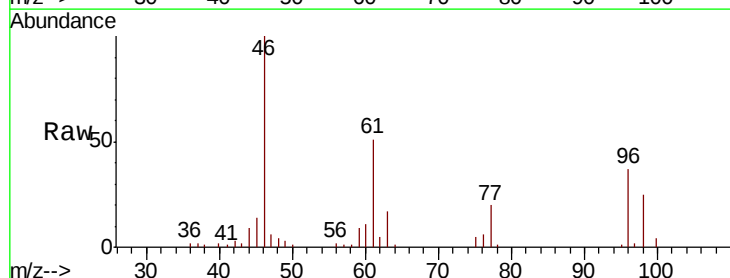
Tgt Ion: 96 Resp: 12260

Ion Ratio Lower Upper

96 100

61 136.4 99.8 185.4

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU040840.D (-1024) (-)

Ion 61.05 (60.75 to 61.75): VU040840.D (-1024) (-)

Ion 68.15 (67.85 to 68.85): VU040840.D (-1024) (-)

10000

8000

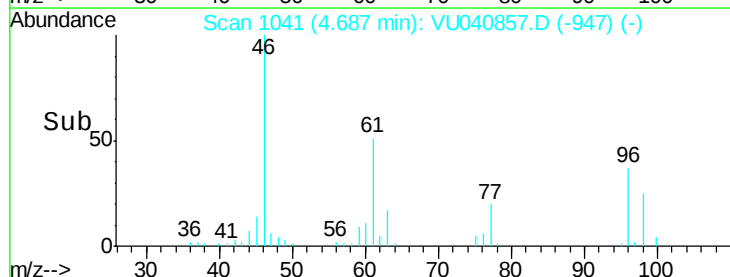
6000

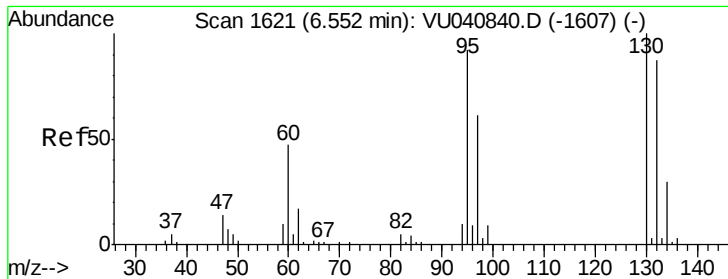
4000

2000

0

Time--> 4.60 4.65 4.70 4.75





#34

Trichloroethene

Concen: 0.114 ug/L

RT: 6.56 min Scan# 1622

Delta R.T. 0.00 min

Lab File: VU040857.D

Acq: 20 Oct 2020 19:06

Instrument :

MSVOA_U

ClientSampleId :

ETZ50

Tot Ion: 95 Resp: 1169

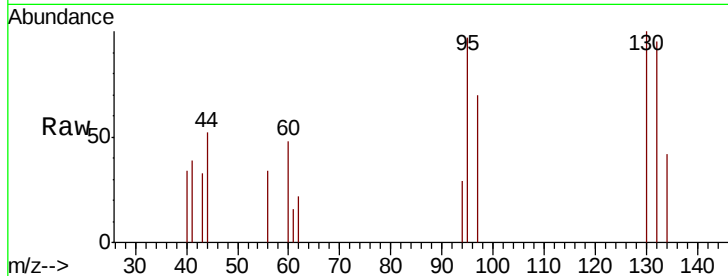
Ion Ratio Lower Upper

95 100

97 71.6 45.5 84.5

132 98.1 67.5 125.4

130 102.8 69.9 129.9

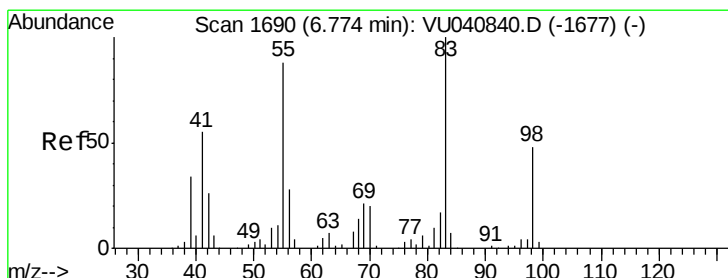
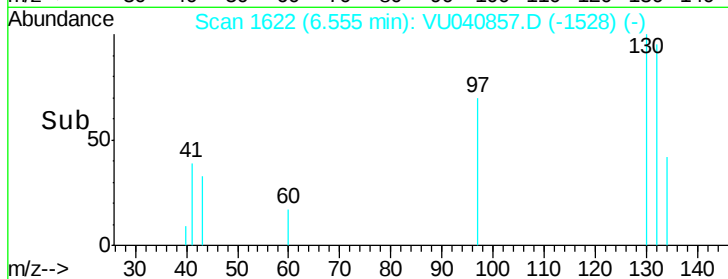
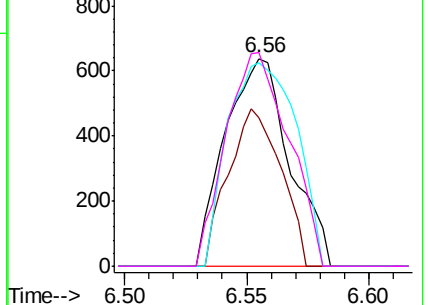


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 0.916 ug/L

RT: 6.70 min Scan# 1668

Delta R.T. -0.07 min

Lab File: VU040857.D

Acq: 20 Oct 2020 19:06

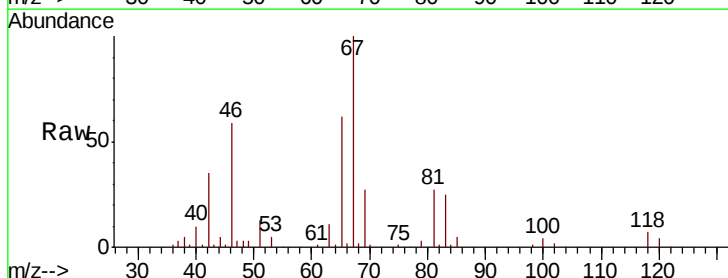
Tgt Ion: 83 Resp: 13322

Ion Ratio Lower Upper

83 100

55 0.4 70.7 106.1#

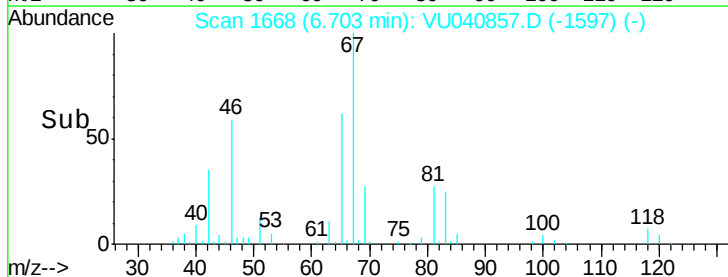
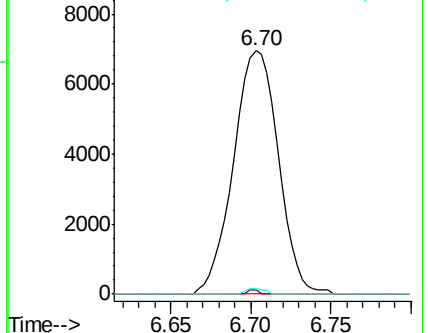
98 1.0 38.4 57.6#

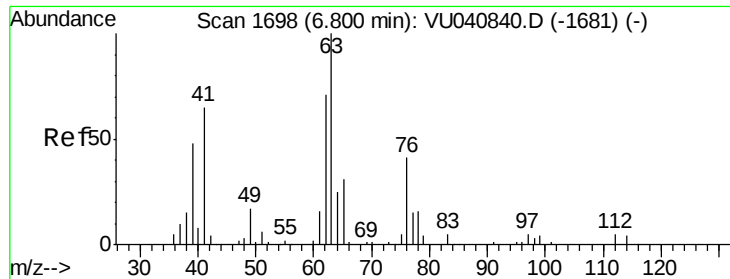


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

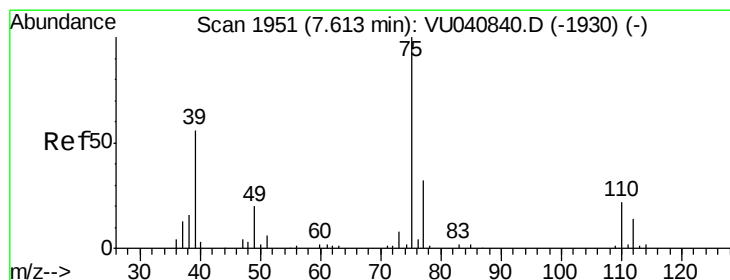
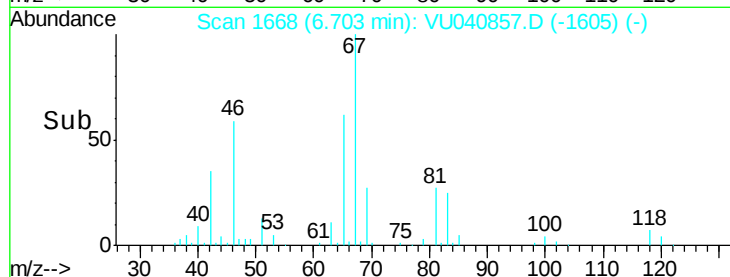
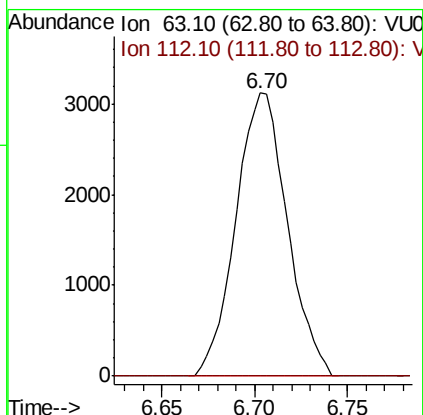
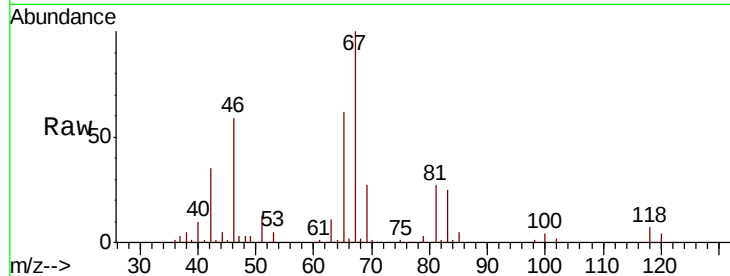




#37
 1,2-Dichloropropane
 Concen: 0.546 ug/L
 RT: 6.70 min Scan# 1668
 Delta R.T. -0.10 min
 Lab File: VU040857.D
 Acq: 20 Oct 2020 19:06

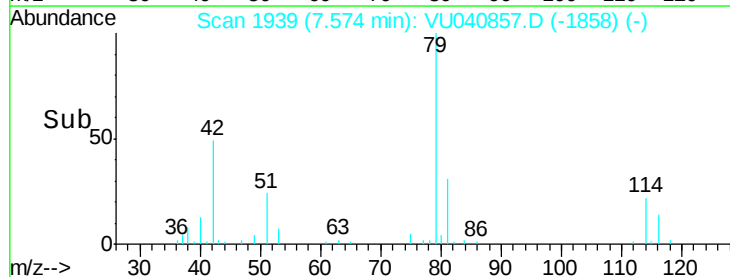
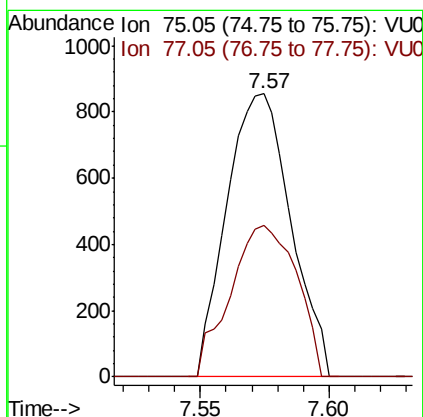
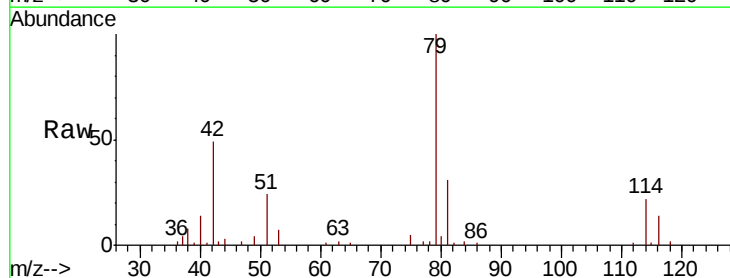
Instrument :
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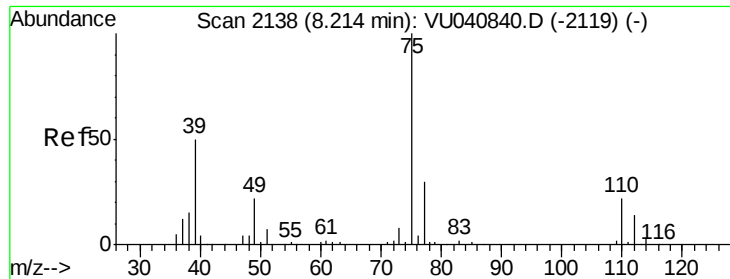
Tot Ion: 63 Resp: 6021
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.5 5.3#



#39
 cis-1,3-Dichloropropene
 Concen: 0.098 ug/L
 RT: 7.57 min Scan# 1939
 Delta R.T. -0.04 min
 Lab File: VU040857.D
 Acq: 20 Oct 2020 19:06

Tgt Ion: 75 Resp: 1482
 Ion Ratio Lower Upper
 75 100
 77 53.6 20.5 38.1#





#44

trans-1,3-Dichloropropene

Concen: 0.074 ug/L

RT: 8.19 min Scan# 2130

Delta R.T. -0.03 min

Lab File: VU040857.D

Acq: 20 Oct 2020 19:06

Instrument :

MSVOA_U

ClientSampleId :

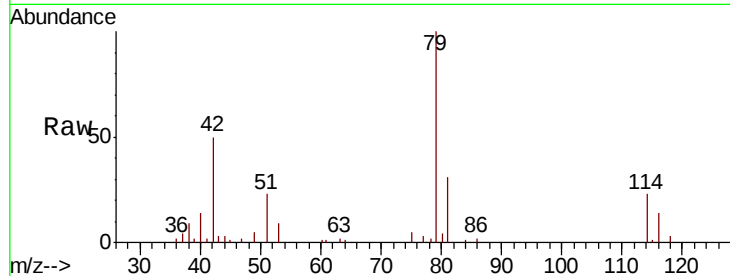
ETZ50

Tot Ion: 75 Resp: 1032

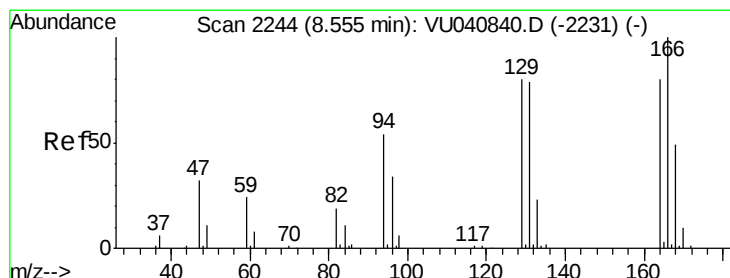
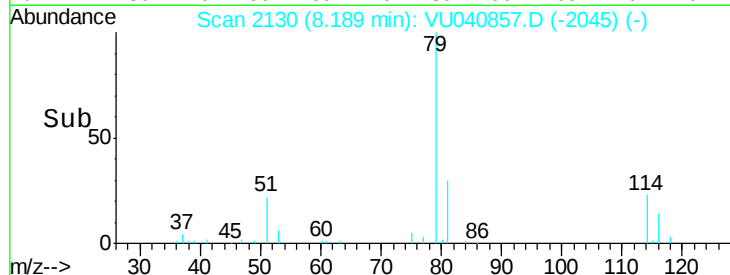
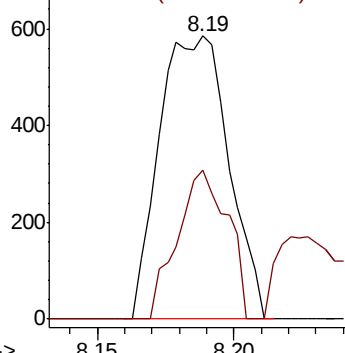
Ion Ratio Lower Upper

75 100

77 52.6 20.4 38.0#



Abundance Ion 75.05 (74.75 to 75.75): VU040840.D (-2119) (-)



#47

Tetrachloroethene

Concen: 0.447 ug/L

RT: 8.56 min Scan# 2244

Delta R.T. -0.00 min

Lab File: VU040857.D

Acq: 20 Oct 2020 19:06

Tgt Ion: 164 Resp: 3270

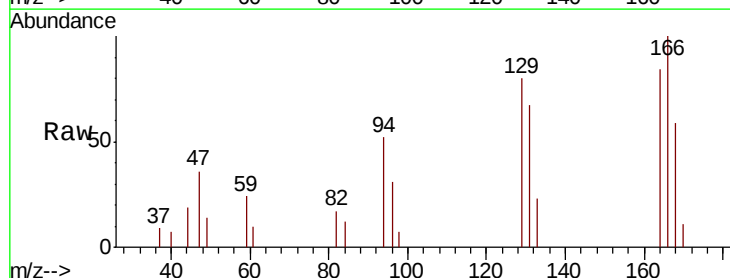
Ion Ratio Lower Upper

164 100

129 95.9 68.8 127.8

131 80.2 66.7 123.9

166 119.6 83.9 155.7

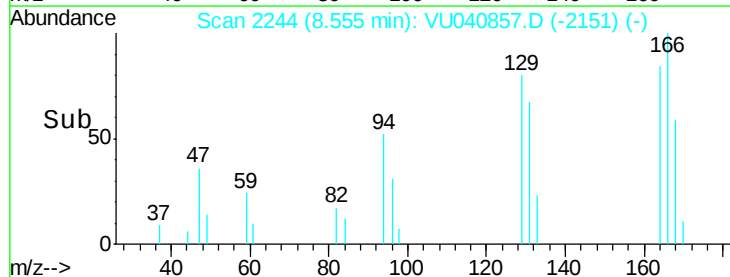
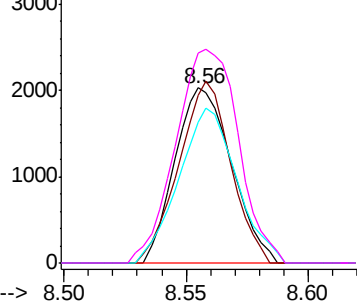


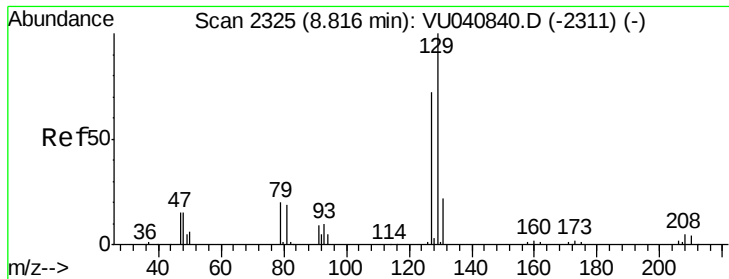
Abundance Ion 163.90 (163.60 to 164.60): VU040840.D (-2231) (-)

Ion 128.95 (128.65 to 129.65): VU040840.D (-2231) (-)

Ion 130.95 (130.65 to 131.65): VU040840.D (-2231) (-)

Ion 165.90 (165.60 to 166.60): VU040840.D (-2231) (-)





#49

Dibromochloromethane

Concen: 0.326 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. -0.26 min

Lab File: VU040857.D

Acq: 20 Oct 2020 19:06

Instrument :

MSVOA_U

ClientSampleId :

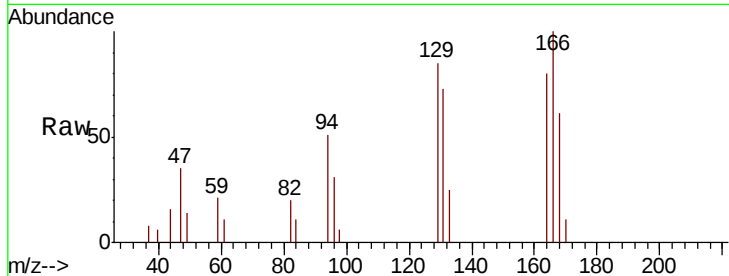
ETZ50

Tot Ion:129 Resp: 3096

Ion Ratio Lower Upper

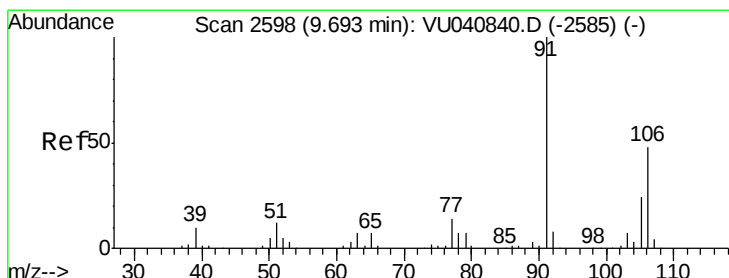
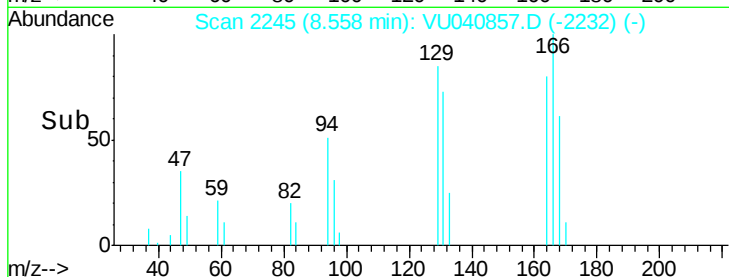
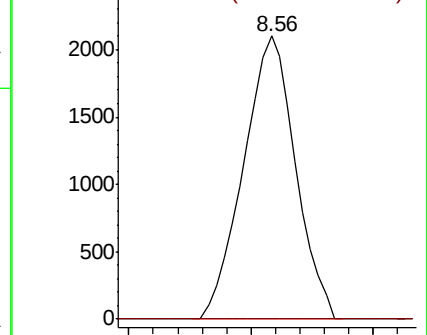
129 100

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



#53

m,p-Xylene

Concen: 0.097 ug/L

RT: 9.70 min Scan# 2599

Delta R.T. 0.00 min

Lab File: VU040857.D

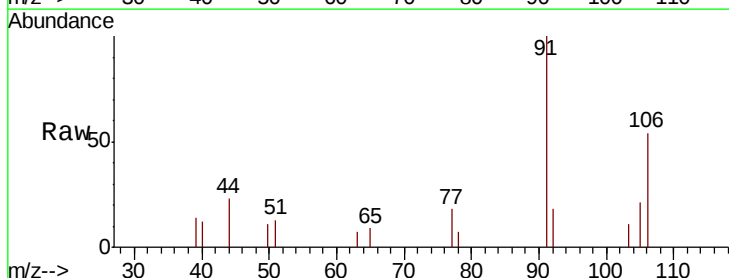
Acq: 20 Oct 2020 19:06

Tgt Ion:106 Resp: 1536

Ion Ratio Lower Upper

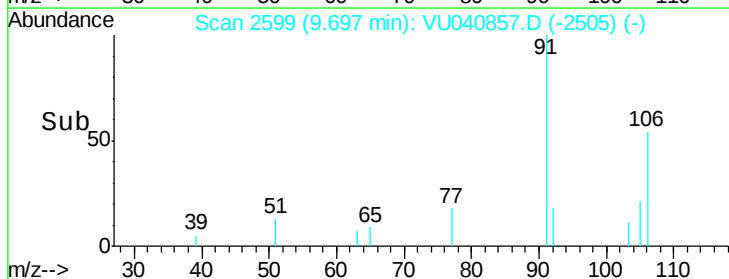
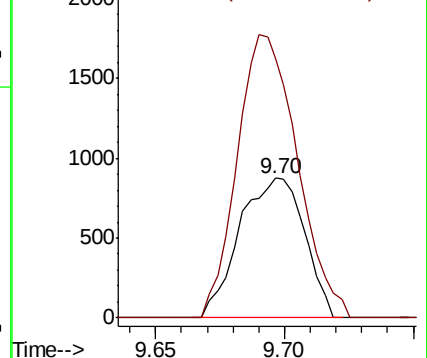
106 100

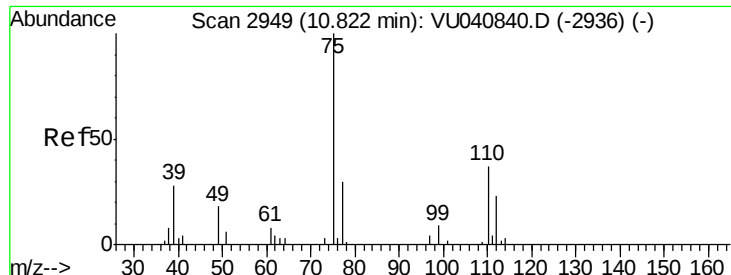
91 185.6 148.5 275.7



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0





#59

1,2,3-Trichloropropane

Concen: 0.886 ug/L

RT: 11.81 min Scan# 3256

Delta R.T. 0.99 min

Lab File: VU040857.D

Acq: 20 Oct 2020 19:06

Instrument :

MSVOA_U

ClientSampleId :

ETZ50

Tot Ion: 75 Resp: 7181

Ion Ratio Lower Upper

75 100

77 38.5 26.4 39.6

