

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U102120\
 Data File : VU040882.D
 Acq On : 21 Oct 2020 19:03
 Operator : SY/MD
 Sample : L4428-11
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 ETZ46

Quant Time: Oct 22 00:51:55 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102120WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Oct 22 00:42:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	237415	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	235924	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	104473	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	71509	4.39	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	87.80%
7) Chloroethane-d5	1.92	69	66828	4.71	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	94.20%
11) 1,1-Dichloroethene-d2	2.58	63	109836	3.17	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	63.40%
20) 2-Butanone-d5	4.65	46	330367	57.17	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	114.34%
24) Chloroform-d	5.08	84	160313	4.49	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.80%
26) 1,2-Dichloroethane-d4	5.72	65	103505	5.17	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	103.40%
32) Benzene-d6	5.74	84	286677	4.64	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.80%
36) 1,2-Dichloropropane-d6	6.70	67	99483	4.74	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	94.80%
41) Toluene-d8	7.91	98	226819	4.14	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	82.80%
43) trans-1,3-Dichloropropene-	8.19	79	39344	4.68	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	93.60%
46) 2-Hexanone-d5	8.64	63	246921	58.44	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	116.88%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	95254	5.33	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	106.60%
64) 1,2-Dichlorobenzene-d4	12.19	152	96807	5.27	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	105.40%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chloromethane	1.53	50	1494	0.057	ug/L	97
8) Chloroethane	1.95	64	730	0.046	ug/L #	56
10) 1,1,2-Trichloro-1,2,2-trif	2.58	101	926	0.050	ug/L #	21
12) 1,1-Dichloroethene	2.57	96	1027	0.059	ug/L #	1
13) Acetone	2.66	43	48442	11.927	ug/L	99
15) Methyl Acetate	2.97	43	1505	0.147	ug/L #	86
16) Methylene chloride	3.06	84	8058	0.377	ug/L	96
21) 2-Butanone	4.73	43	6953	1.136	ug/L	94
27) 1,2-Dichloroethane	5.81	62	53162	2.103	ug/L	99
35) Methylcyclohexane	6.70	83	24624	0.852	ug/L #	16
37) 1,2-Dichloropropane	6.71	63	11490	0.561	ug/L #	89
40) 4-Methyl-2-pentanone	7.80	43	11949	0.870	ug/L #	87
42) Toluene	7.97	91	3511	0.046	ug/L	100
48) 2-Hexanone	8.69	43	6702	0.670	ug/L	97
52) Ethylbenzene	9.57	91	30916	0.377	ug/L	98
53) m,p-Xylene	9.69	106	43268	1.466	ug/L	93
54) o-Xylene	10.10	106	19845	0.707	ug/L	99

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Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 22 00:42:50 2020
Response via : Initial Calibration

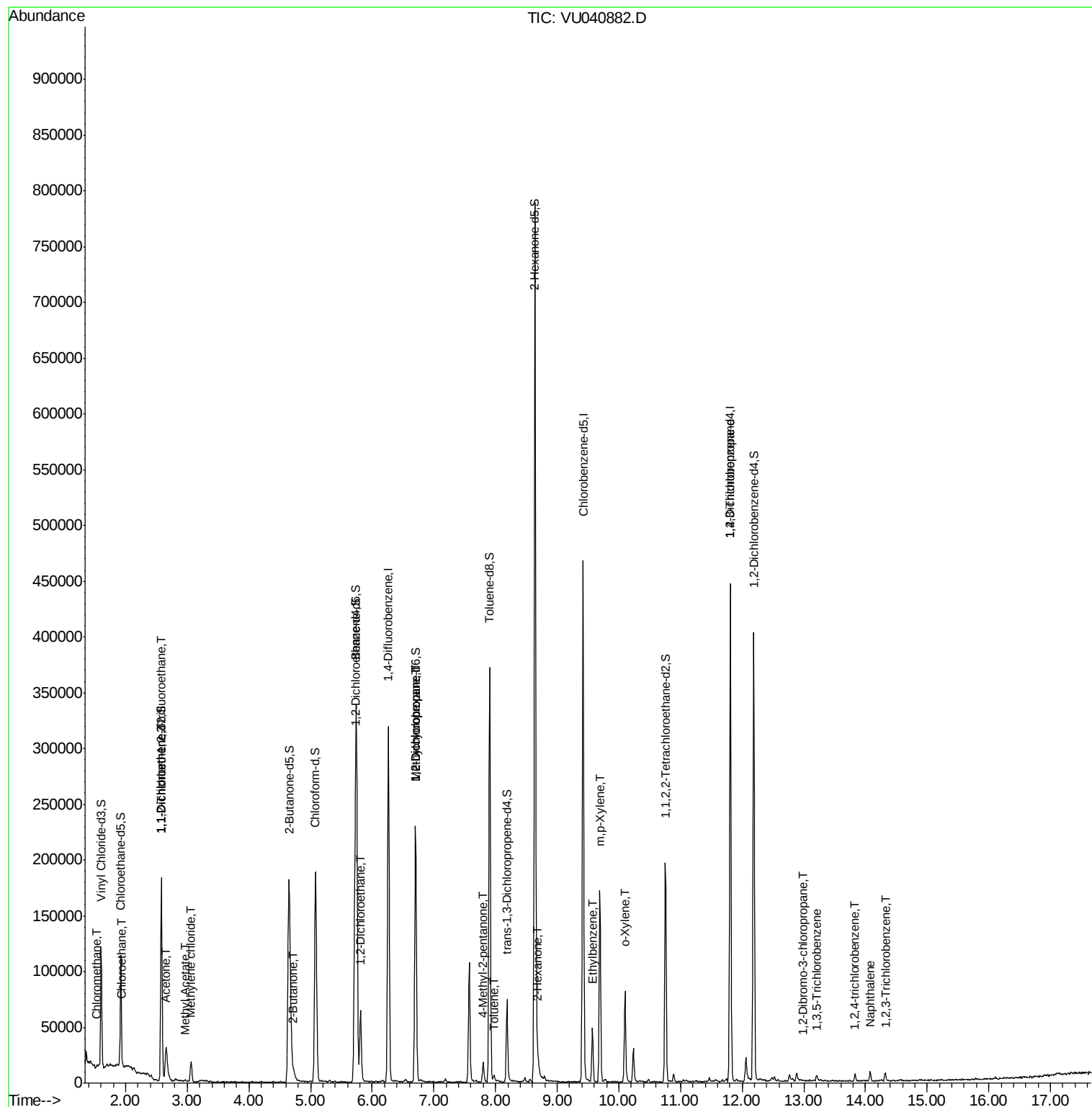
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
59) 1,2,3-Trichloropropane	11.81	75	14702	1.105	ug/L	90
66) 1,2-Dibromo-3-chloropropan	12.99	75	236	0.082	ug/L #	12
67) 1,3,5-Trichlorobenzene	13.21	180	1289	0.053	ug/L #	86
68) 1,2,4-trichlorobenzene	13.83	180	1731	0.085	ug/L #	91
69) Naphthalene	14.08	128	6589	0.175	ug/L	99
70) 1,2,3-Trichlorobenzene	14.32	180	1794	0.090	ug/L #	62

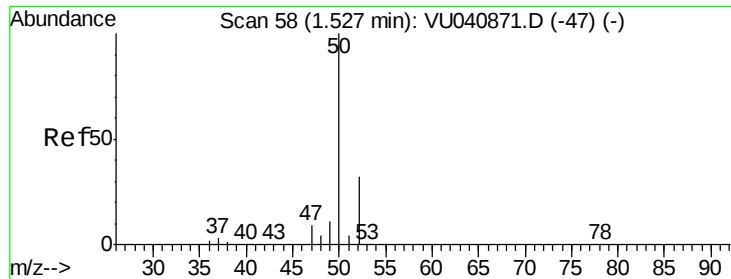
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.057 ug/L

RT: 1.53 min Scan# 58

Delta R.T. -0.00 min

Lab File: VU040882.D

Acq: 21 Oct 2020 19:03

Instrument :

MSVOA_U

ClientSampleId :

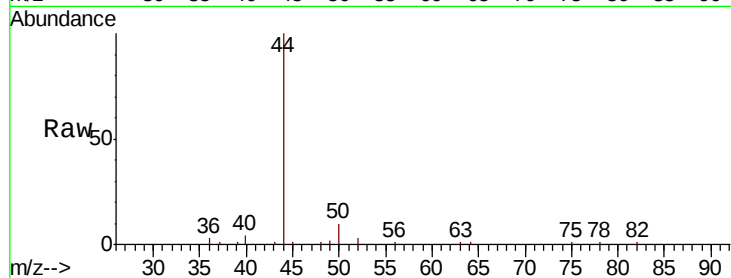
ETZ46

Tot Ion: 50 Resp: 1494

Ion Ratio Lower Upper

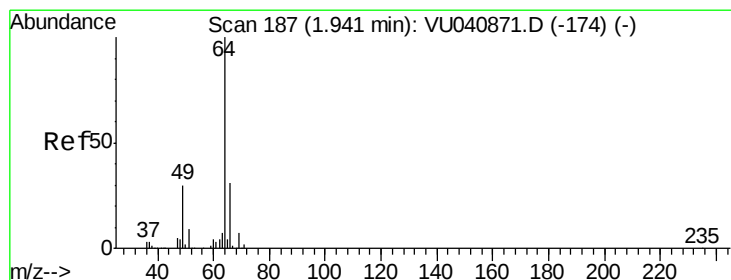
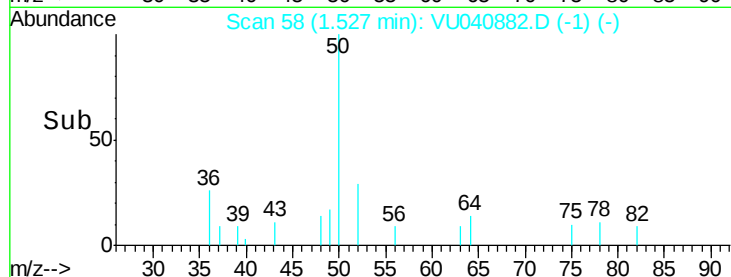
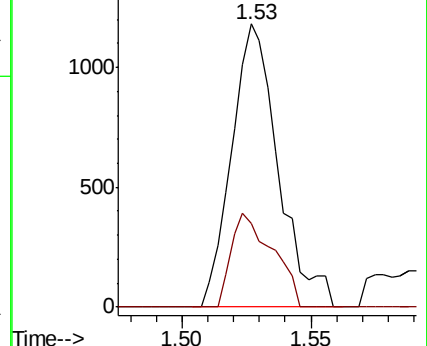
50 100

52 29.4 21.8 40.6



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0



#8

Chloroethane

Concen: 0.046 ug/L

RT: 1.95 min Scan# 189

Delta R.T. 0.01 min

Lab File: VU040882.D

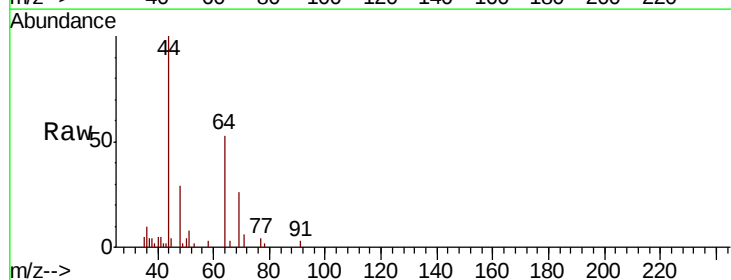
Acq: 21 Oct 2020 19:03

Tgt Ion: 64 Resp: 730

Ion Ratio Lower Upper

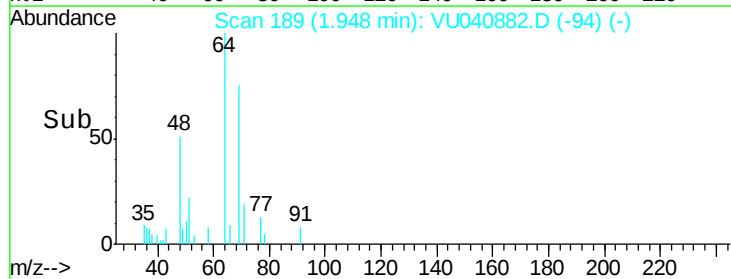
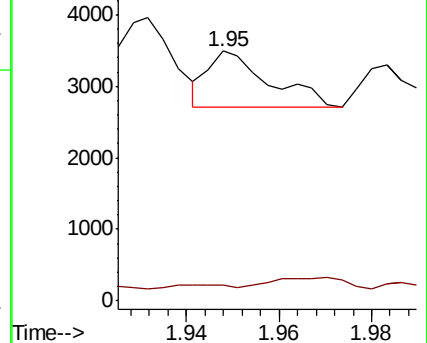
64 100

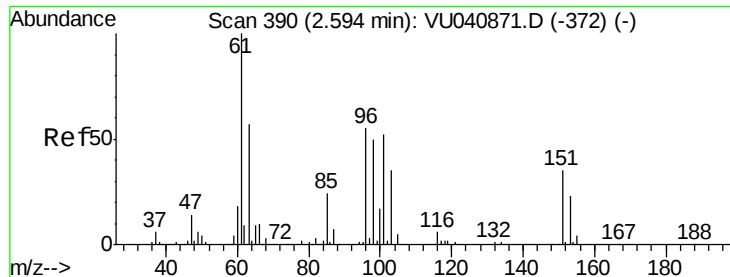
66 6.1 21.2 39.4#



Abundance Ion 64.10 (63.80 to 64.80): VU0

Ion 66.05 (65.75 to 66.75): VU0





#10

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

Concen: 0.050 ug/L

RT: 2.58 min Scan# 387

Delta R.T. -0.01 min

Lab File: VU040882.D

Acq: 21 Oct 2020 19:03

Instrument :

MSVOA_U

ClientSampleId :

ETZ46

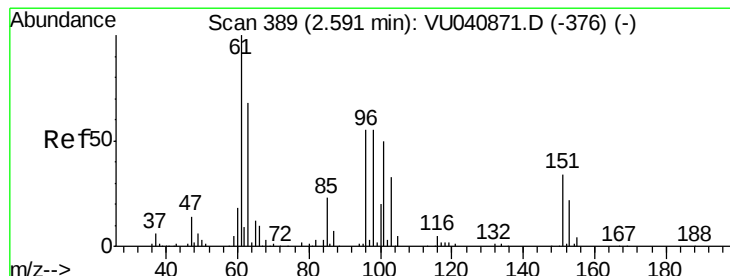
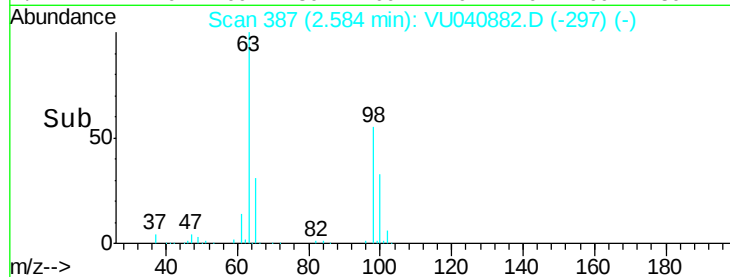
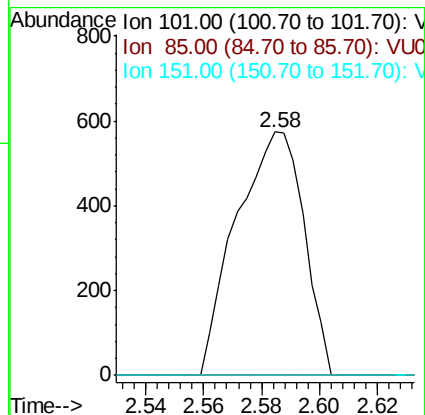
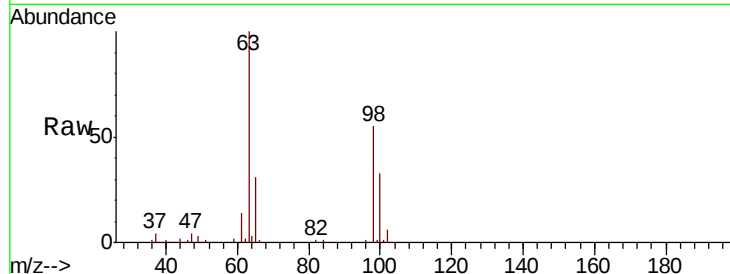
Tot Ion:101 Resp: 926

Ion Ratio Lower Upper

101 100

85 0.0 36.4 54.6#

151 0.0 56.3 84.5#



#12

1,1-Dichloroethene

Concen: 0.059 ug/L

RT: 2.57 min Scan# 384

Delta R.T. -0.02 min

Lab File: VU040882.D

Acq: 21 Oct 2020 19:03

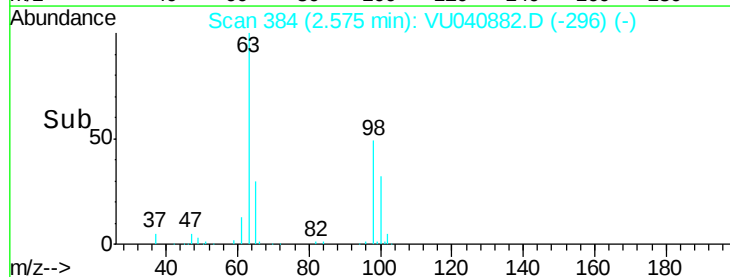
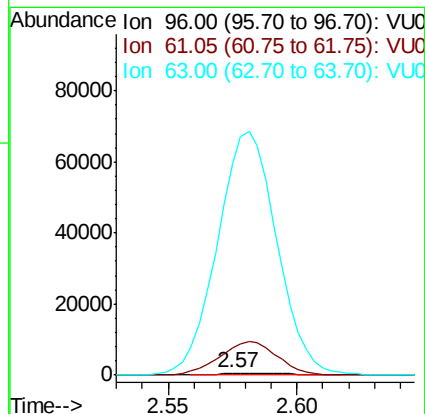
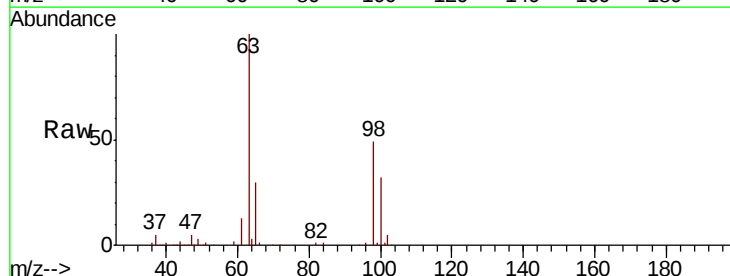
Tgt Ion: 96 Resp: 1027

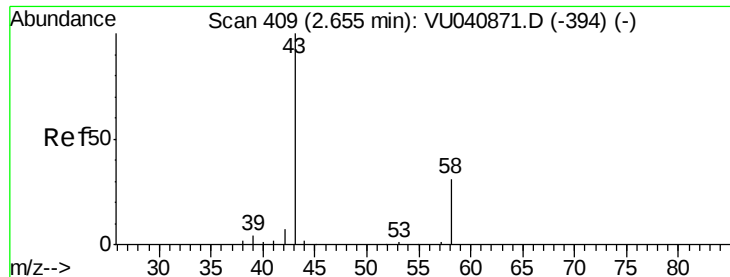
Ion Ratio Lower Upper

96 100

61 1274.7 130.9 243.1#

63 10032.3 85.4 158.6#





#13

Acetone

Concen: 11.927 ug/L

RT: 2.66 min Scan# 409

Delta R.T. -0.00 min

Lab File: VU040882.D

Acq: 21 Oct 2020 19:03

Instrument :

MSVOA_U

ClientSampleId :

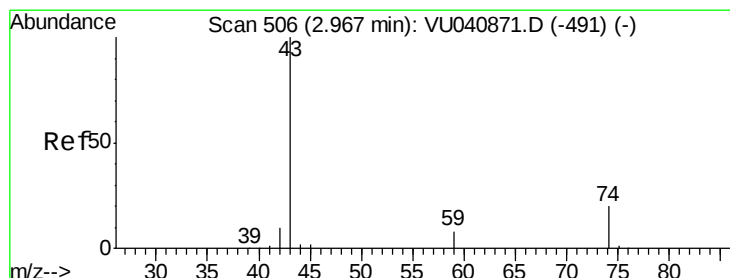
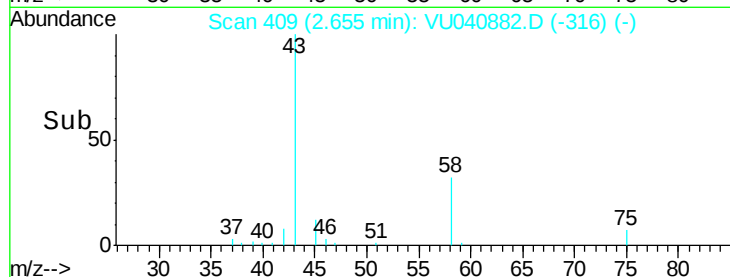
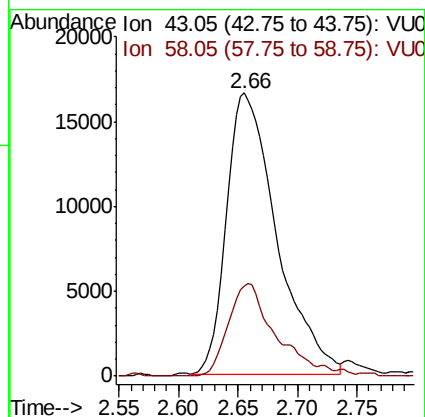
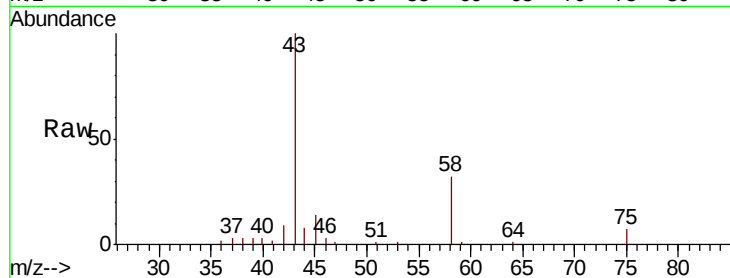
ETZ46

Tot Ion: 43 Resp: 48442

Ion Ratio Lower Upper

43 100

58 30.0 0.0 58.6



#15

Methyl Acetate

Concen: 0.147 ug/L

RT: 2.97 min Scan# 506

Delta R.T. -0.00 min

Lab File: VU040882.D

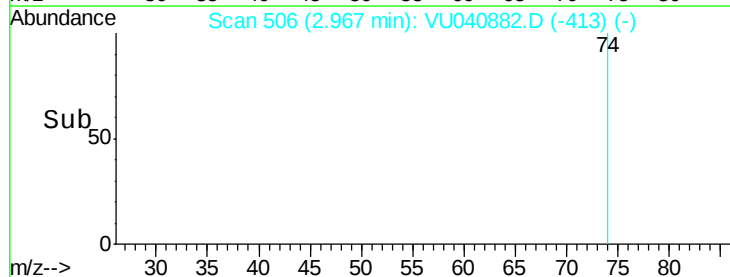
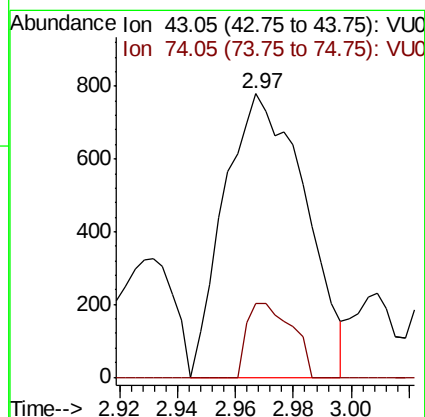
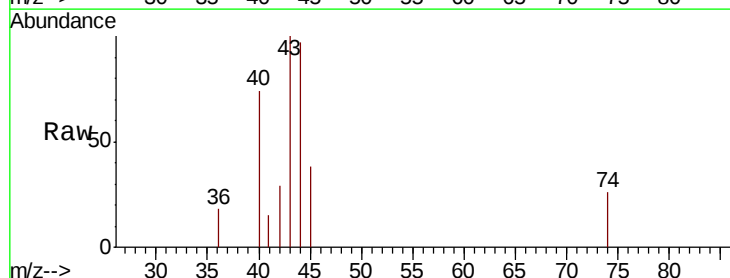
Acq: 21 Oct 2020 19:03

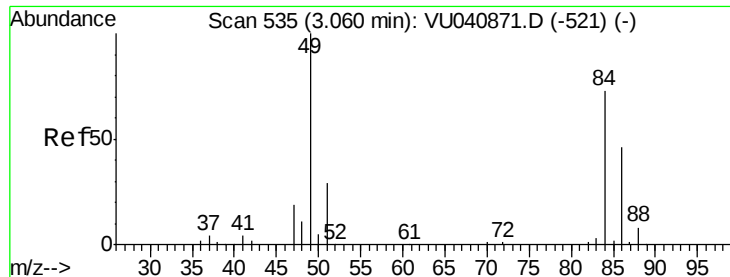
Tgt Ion: 43 Resp: 1505

Ion Ratio Lower Upper

43 100

74 14.4 16.6 25.0#

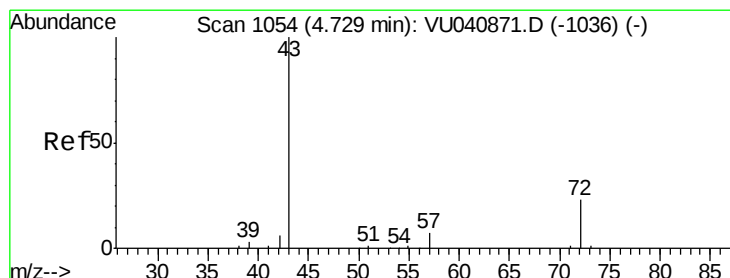
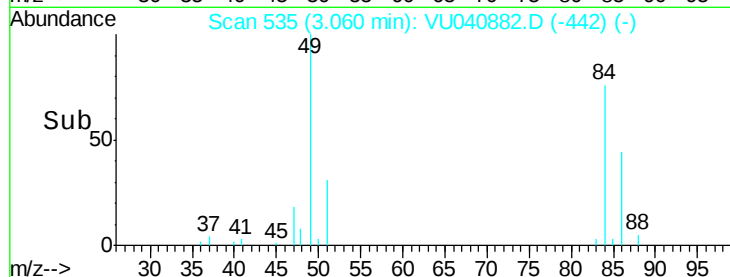
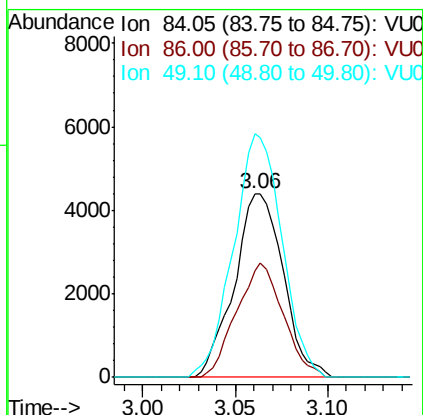
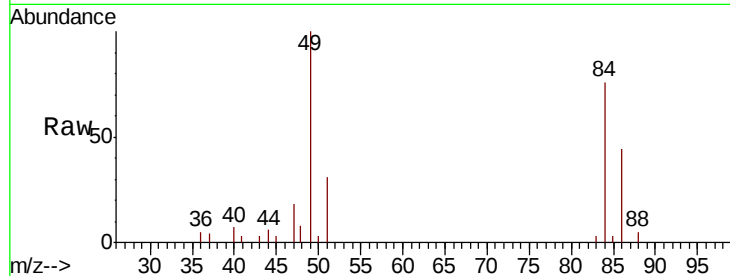




#16
Methvlene chloride
Concen: 0.377 ug/L
RT: 3.06 min Scan# 535
Delta R.T. -0.00 min
Lab File: VU040882.D
Acq: 21 Oct 2020 19:03

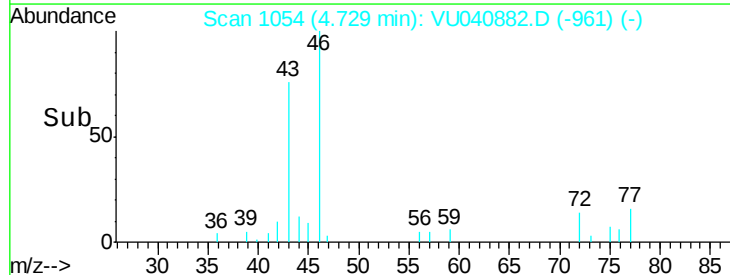
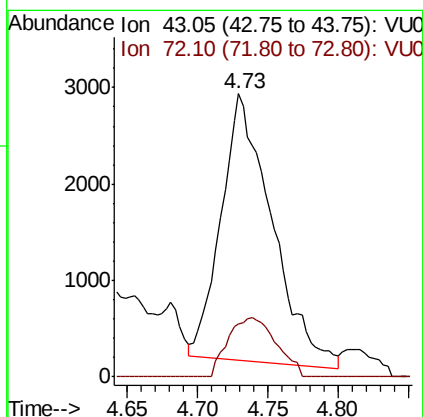
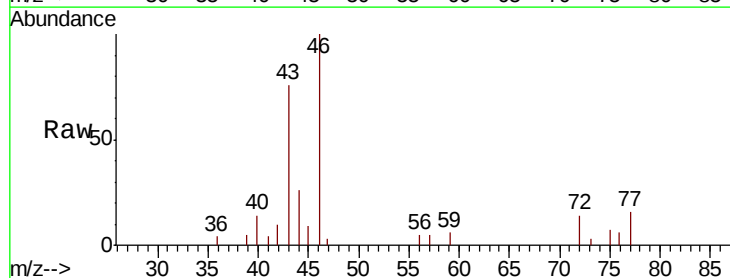
Instrument :
MSVOA_U
ClientSampleId :
ETZ46

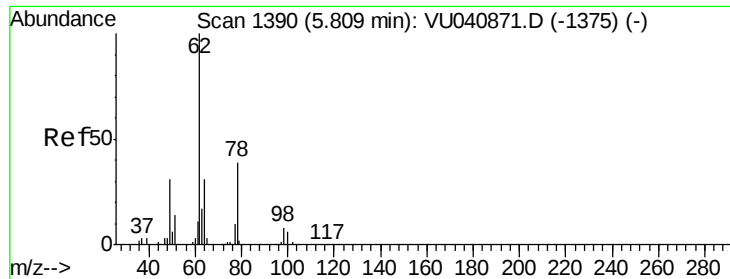
Tot Ion: 84 Resp: 8058
Ion Ratio Lower Upper
84 100
86 57.7 44.9 83.5
49 132.3 94.7 175.9



#21
2-Butanone
Concen: 1.136 ug/L
RT: 4.73 min Scan# 1054
Delta R.T. 0.00 min
Lab File: VU040882.D
Acq: 21 Oct 2020 19:03

Tgt Ion: 43 Resp: 6953
Ion Ratio Lower Upper
43 100
72 21.1 12.2 36.4





#27

1,2-Dichloroethane

Concen: 2.103 ug/L

RT: 5.81 min Scan# 1390

Delta R.T. -0.00 min

Lab File: VU040882.D

Acq: 21 Oct 2020 19:03

Instrument :

MSVOA_U

ClientSampleId :

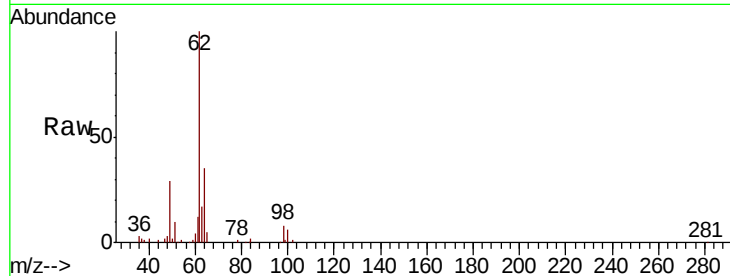
ETZ46

Tot Ion: 62 Resp: 53162

Ion Ratio Lower Upper

62 100

98 8.3 7.0 10.6



Abundance Ion 62.00 (61.70 to 62.70): VU040882.D (-1297) (-)

Ion 98.05 (97.75 to 98.75): VU040882.D (-1297) (-)

5.81

25000

20000

15000

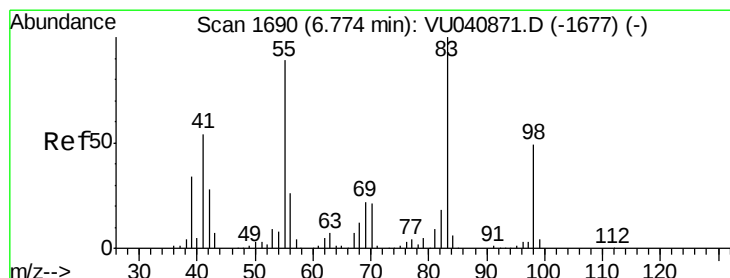
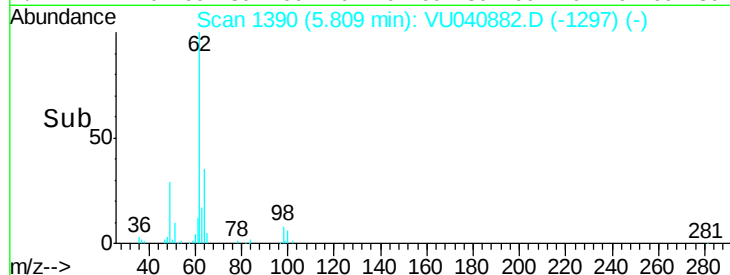
10000

5000

0

Time-->

5.75 5.80 5.85 5.90



#35

Methylcyclohexane

Concen: 0.852 ug/L

RT: 6.70 min Scan# 1668

Delta R.T. -0.07 min

Lab File: VU040882.D

Acq: 21 Oct 2020 19:03

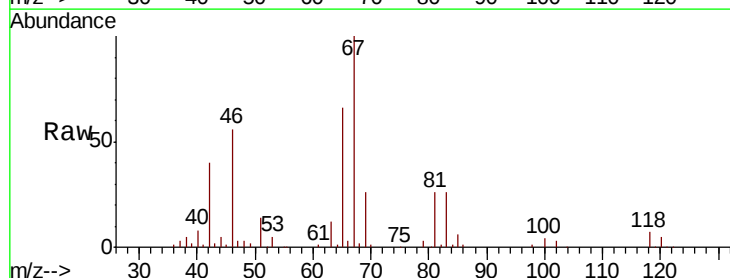
Tgt Ion: 83 Resp: 24624

Ion Ratio Lower Upper

83 100

55 0.5 69.1 103.7#

98 1.9 37.8 56.6#



Abundance Ion 83.15 (82.85 to 83.85): VU040882.D (-1597) (-)

Ion 55.10 (54.80 to 55.80): VU040882.D (-1597) (-)

Ion 98.15 (97.85 to 98.85): VU040882.D (-1597) (-)

6.70

15000

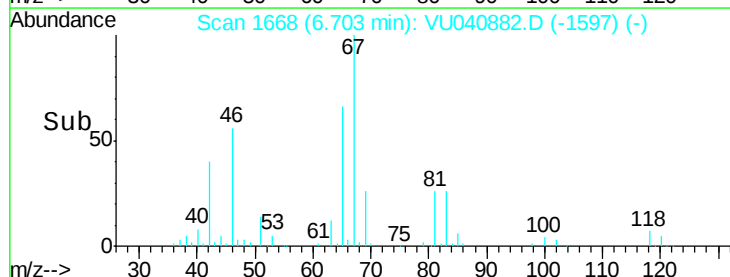
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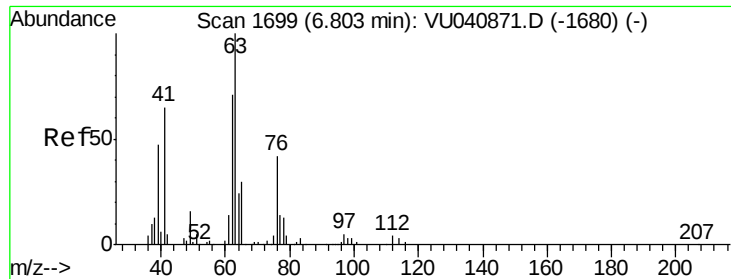
5000

0

Time-->

6.65 6.70 6.75

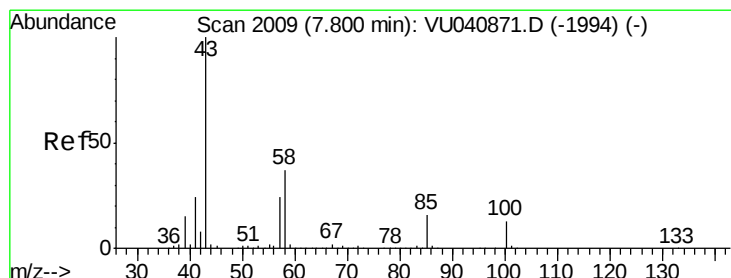
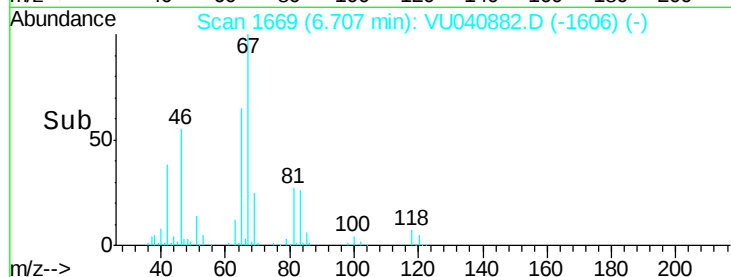
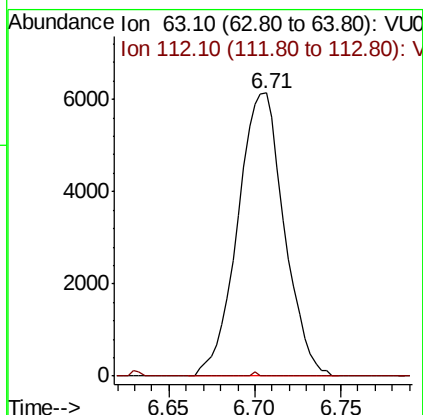
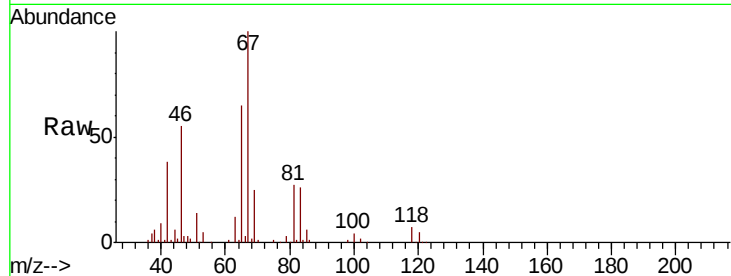




#37
 1,2-Dichloropropane
 Concen: 0.561 ug/L
 RT: 6.71 min Scan# 1669
 Delta R.T. -0.10 min
 Lab File: VU040882.D
 Acq: 21 Oct 2020 19:03

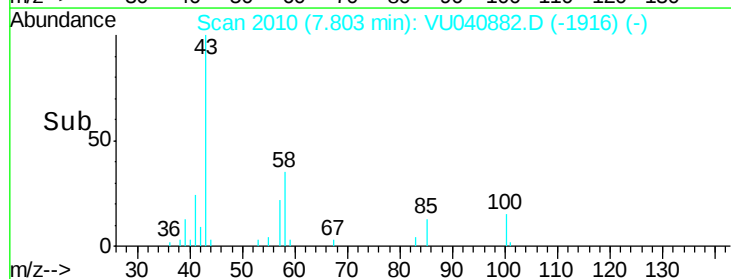
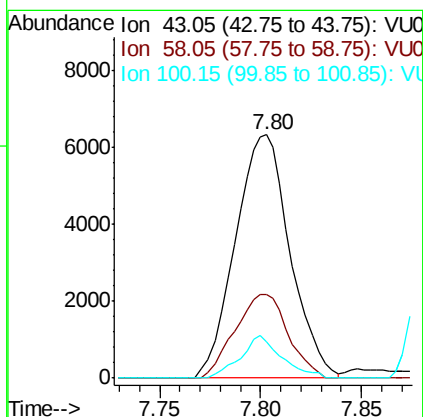
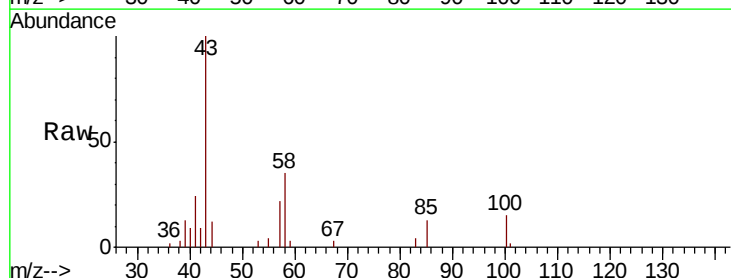
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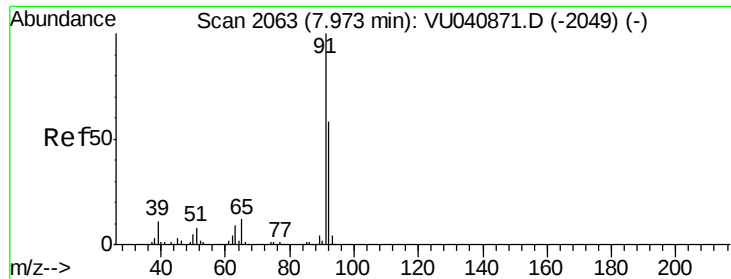
Tot Ion: 63 Resp: 11490
 Ion Ratio Lower Upper
 63 100
 112 0.2 3.0 4.6#



#40
 4-Methyl-2-pentanone
 Concen: 0.870 ug/L
 RT: 7.80 min Scan# 2010
 Delta R.T. 0.00 min
 Lab File: VU040882.D
 Acq: 21 Oct 2020 19:03

Tgt Ion: 43 Resp: 11949
 Ion Ratio Lower Upper
 43 100
 58 33.4 29.7 44.5
 100 0.0 10.6 16.0#





#42

Toluene

Concen: 0.046 ug/L

RT: 7.97 min Scan# 2063

Delta R.T. -0.00 min

Lab File: VU040882.D

Acq: 21 Oct 2020 19:03

Instrument :

MSVOA_U

ClientSampleId :

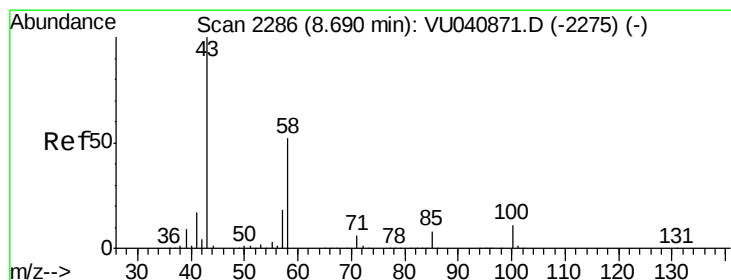
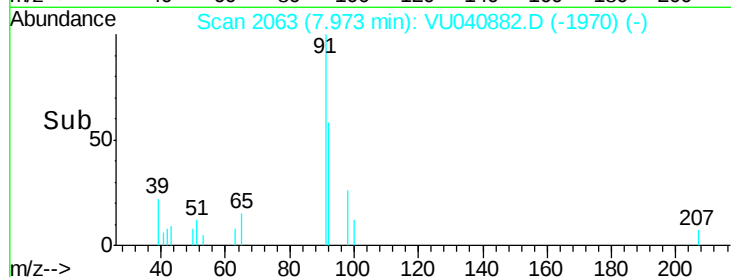
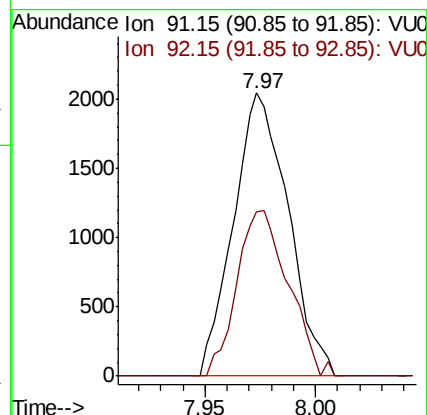
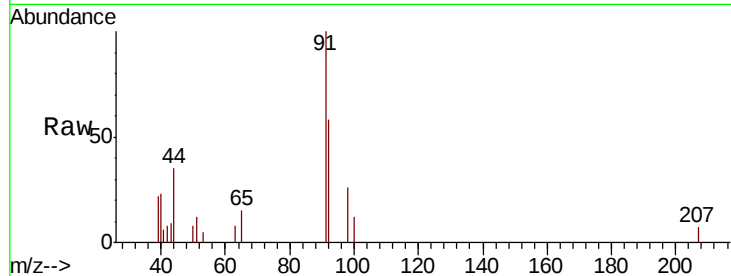
ETZ46

Tot Ion: 91 Resp: 3511

Ion Ratio Lower Upper

91 100

92 58.3 40.6 75.4



#48

2-Hexanone

Concen: 0.670 ug/L

RT: 8.69 min Scan# 2285

Delta R.T. -0.00 min

Lab File: VU040882.D

Acq: 21 Oct 2020 19:03

Tgt Ion: 43 Resp: 6702

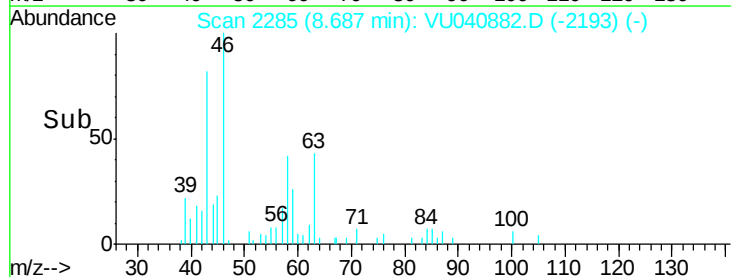
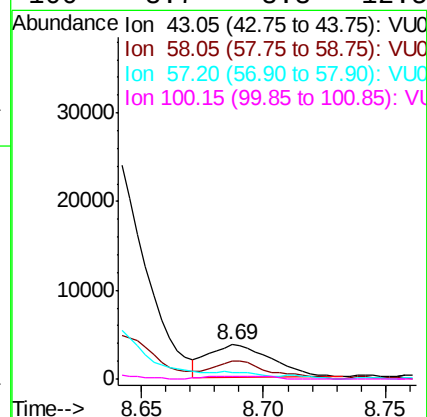
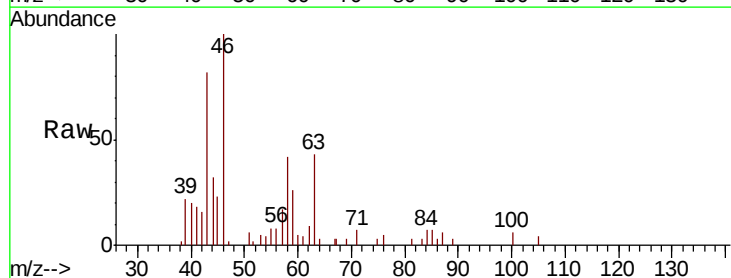
Ion Ratio Lower Upper

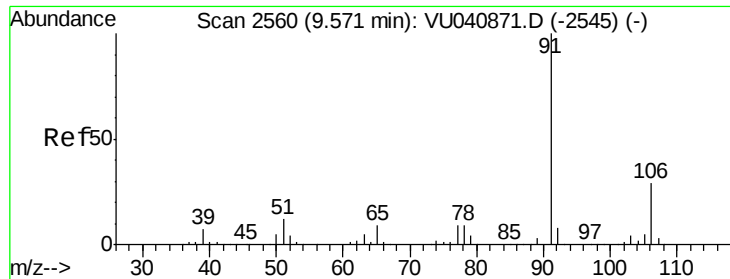
43 100

58 50.0 40.9 61.3

57 14.7 14.4 21.6

100 8.7 8.3 12.5





#52

Ethylbenzene

Concen: 0.377 ug/L

RT: 9.57 min Scan# 2560

Delta R.T. 0.00 min

Lab File: VU040882.D

Acq: 21 Oct 2020 19:03

Instrument :

MSVOA_U

ClientSampleId :

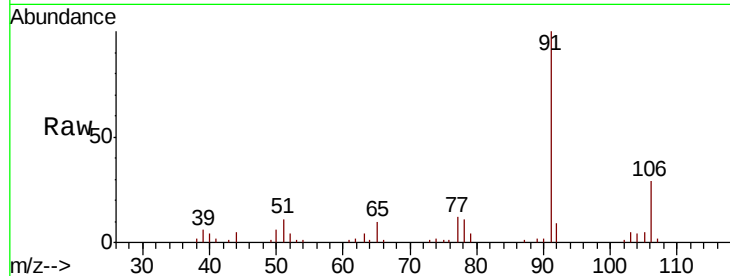
ETZ46

Tot Ion: 91 Resp: 30916

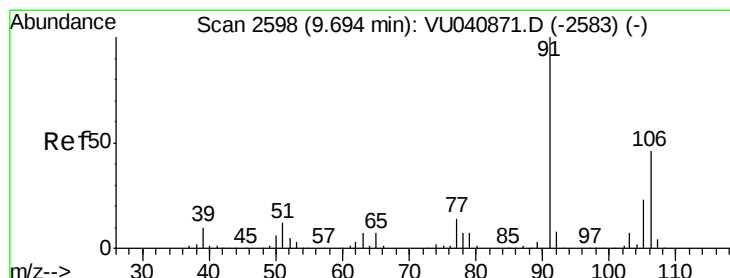
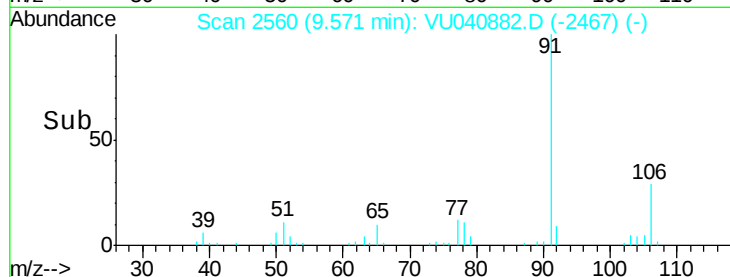
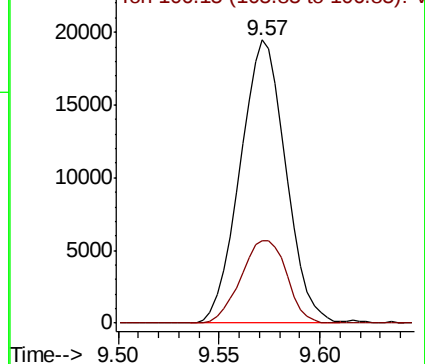
Ion Ratio Lower Upper

91 100

106 29.3 21.2 39.4



Abundance Ion 91.15 (90.85 to 91.85): VU040871.D (-2545) (-)



#53

m,p-Xylene

Concen: 1.466 ug/L

RT: 9.69 min Scan# 2598

Delta R.T. 0.00 min

Lab File: VU040882.D

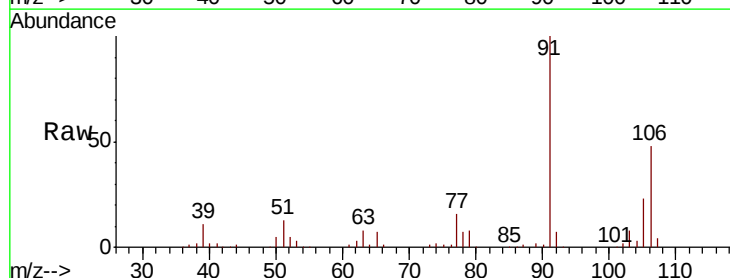
Acq: 21 Oct 2020 19:03

Tgt Ion: 106 Resp: 43268

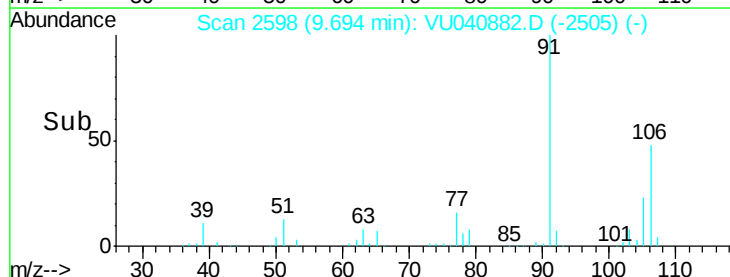
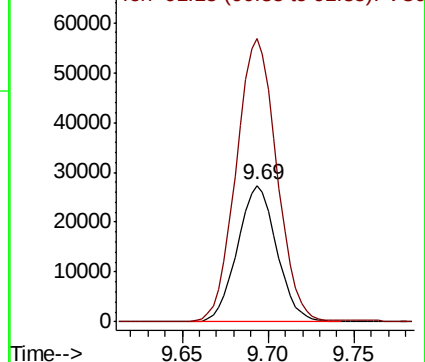
Ion Ratio Lower Upper

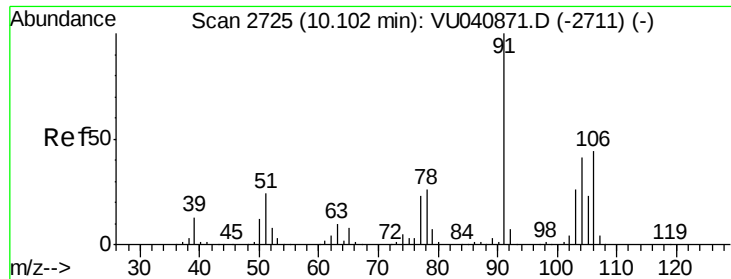
106 100

91 207.6 153.3 284.7



Abundance Ion 106.15 (105.85 to 106.85): VU040871.D (-2583) (-)

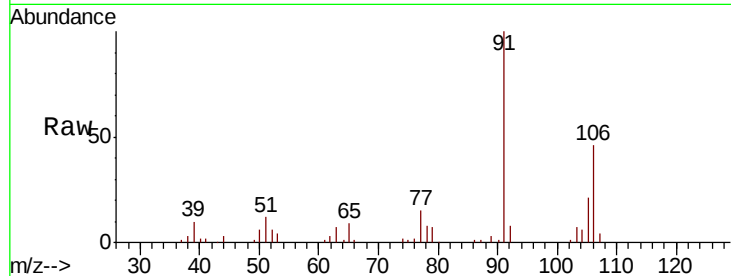




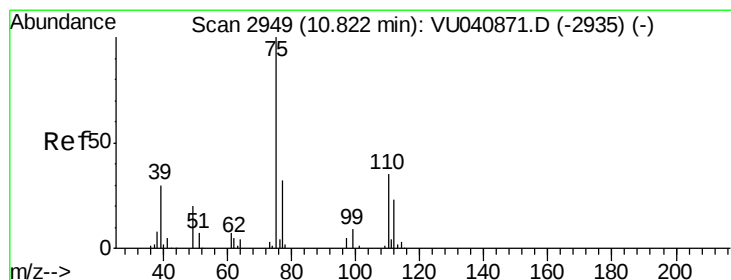
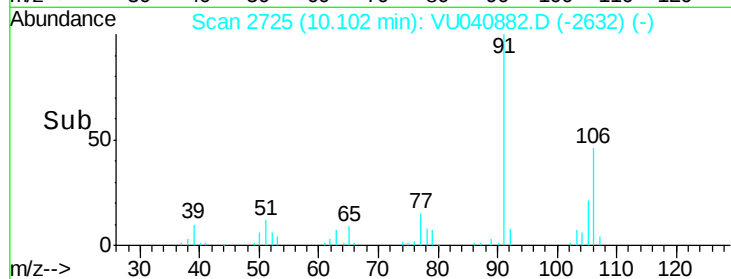
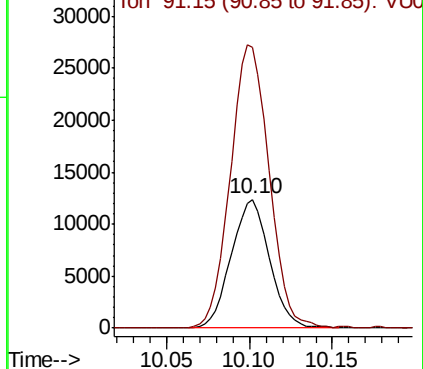
#54
o-Xylene
Concen: 0.707 ug/L
RT: 10.10 min Scan# 2725
Delta R.T. -0.00 min
Lab File: VU040882.D
Acq: 21 Oct 2020 19:03

Instrument :
MSVOA_U
ClientSampled :
ETZ46

Tot Ion:106 Resp: 19845
Ion Ratio Lower Upper
106 100
91 218.0 153.6 285.2

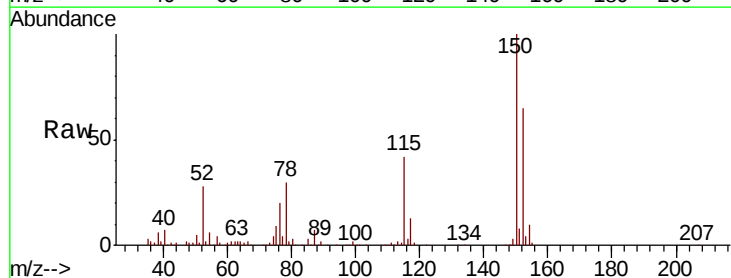


Abundance Ion 106.15 (105.85 to 106.85): VU040882.D (-2632) (-)
Ion 91.15 (90.85 to 91.85): VU040882.D (-2632) (-)

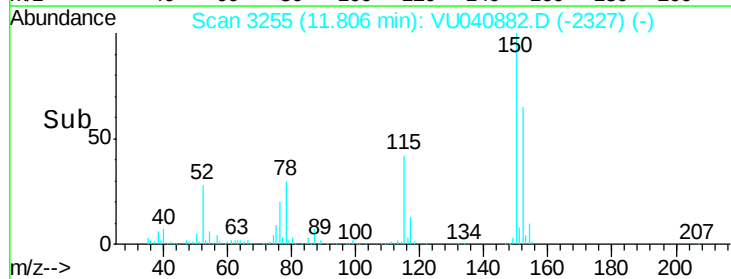
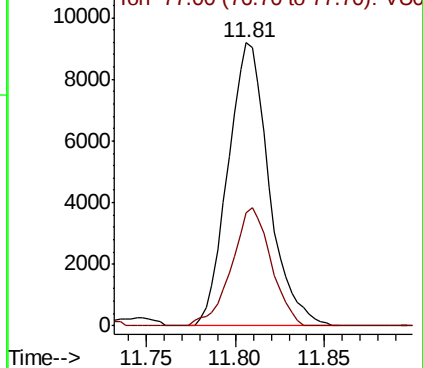


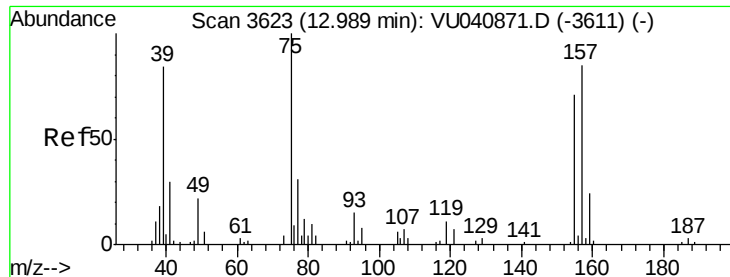
#59
1,2,3-Trichloropropane
Concen: 1.105 ug/L
RT: 11.81 min Scan# 3255
Delta R.T. 0.98 min
Lab File: VU040882.D
Acq: 21 Oct 2020 19:03

Tgt Ion: 75 Resp: 14702
Ion Ratio Lower Upper
75 100
77 40.1 27.5 41.3



Abundance Ion 75.00 (74.70 to 75.70): VU040882.D (-2327) (-)
Ion 77.00 (76.70 to 77.70): VU040882.D (-2327) (-)





#66

1,2-Dibromo-3-chloropropane

Concen: 0.082 ug/L

RT: 12.99 min Scan# 3623

Delta R.T. 0.00 min

Lab File: VU040882.D

Acq: 21 Oct 2020 19:03

Instrument :

MSVOA_U

ClientSampleId :

ETZ46

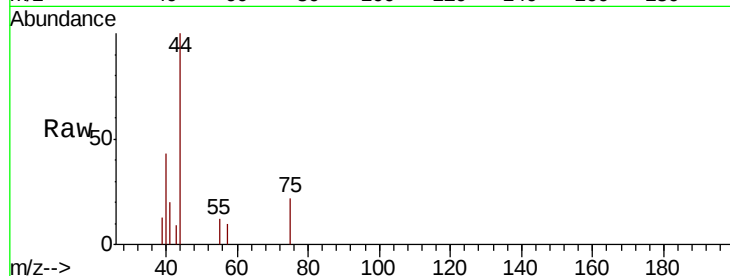
Tot Ion: 75 Resp: 236

Ion Ratio Lower Upper

75 100

155 0.0 51.7 77.5#

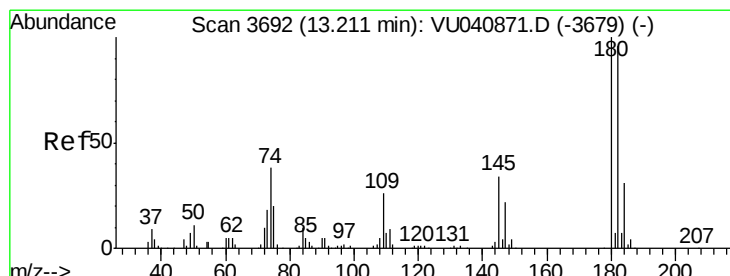
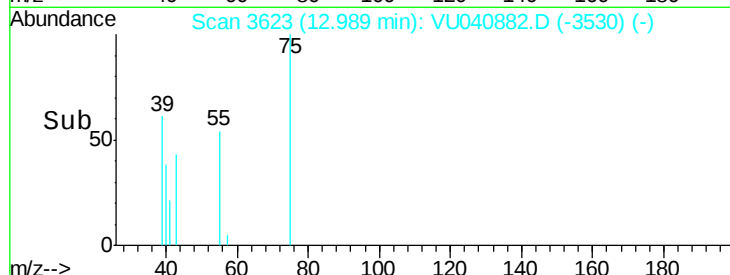
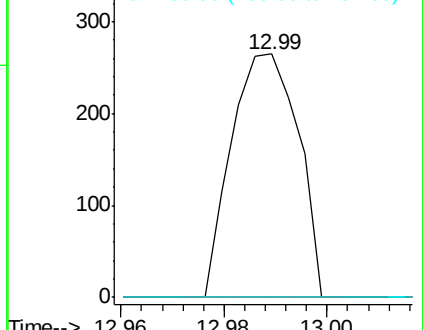
157 0.0 66.9 100.3#



Abundance Ion 75.05 (74.75 to 75.75): VU

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V



#67

1,3,5-Trichlorobenzene

Concen: 0.053 ug/L

RT: 13.21 min Scan# 3692

Delta R.T. -0.00 min

Lab File: VU040882.D

Acq: 21 Oct 2020 19:03

Tgt Ion: 180 Resp: 1289

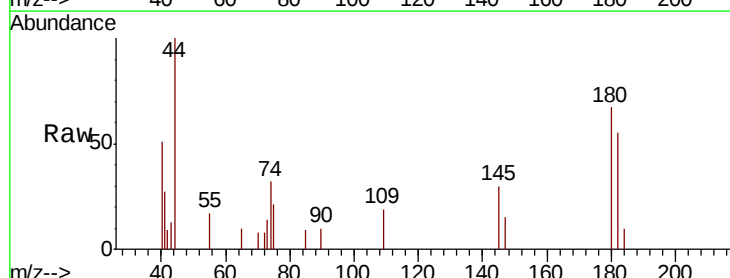
Ion Ratio Lower Upper

180 100

182 93.4 77.6 116.4

184 6.8 24.7 37.1#

145 42.1 25.9 38.9#

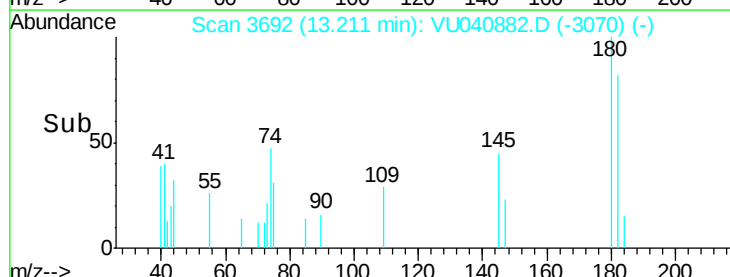
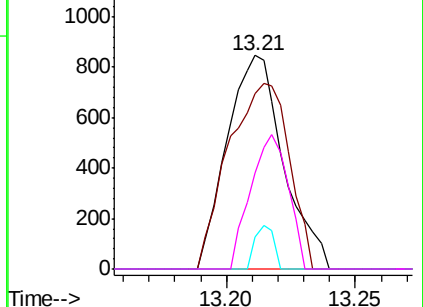


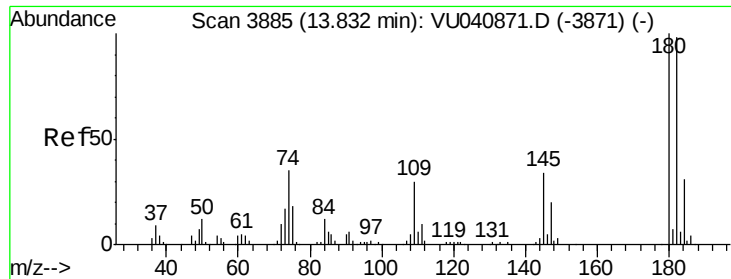
Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V

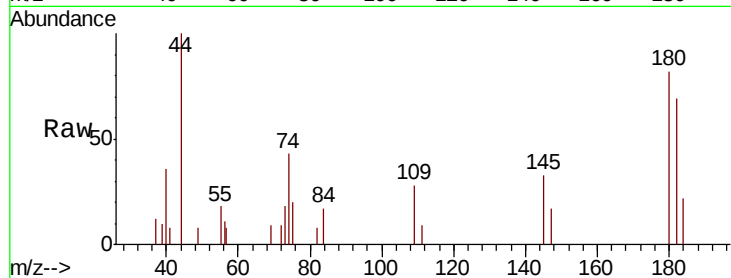




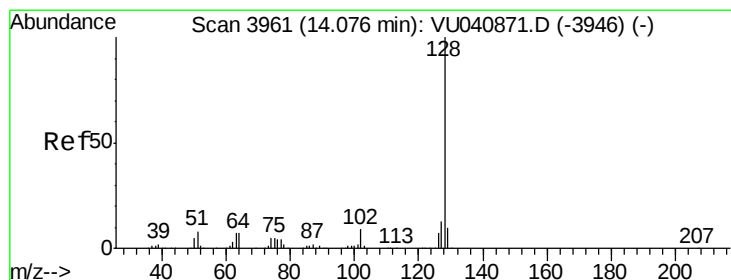
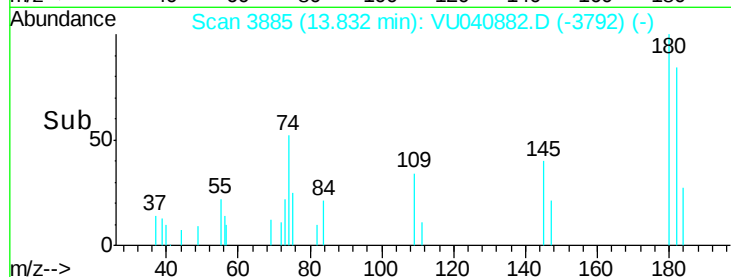
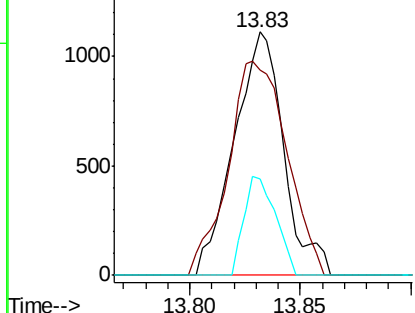
#68
 1,2,4-trichlorobenzene
 Concen: 0.085 ug/L
 RT: 13.83 min Scan# 3885
 Delta R.T. -0.00 min
 Lab File: VU040882.D
 Acq: 21 Oct 2020 19:03

Instrument :
 MSVOA_U
 ClientSampleId :
 ETZ46

Tot Ion:180 Resp: 1731
 Ion Ratio Lower Upper
 180 100
 182 104.0 76.4 114.6
 145 26.1 26.2 39.2#

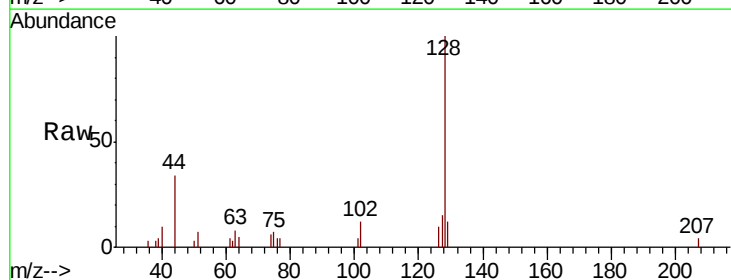


Abundance Ion 179.90 (179.60 to 180.60): V
 1500 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V

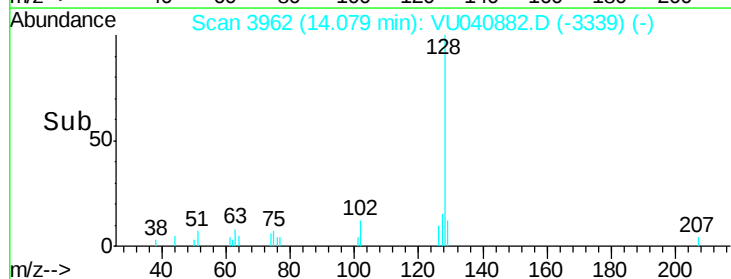
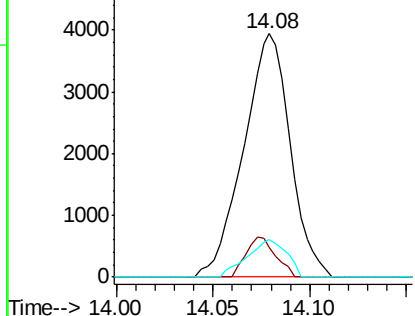


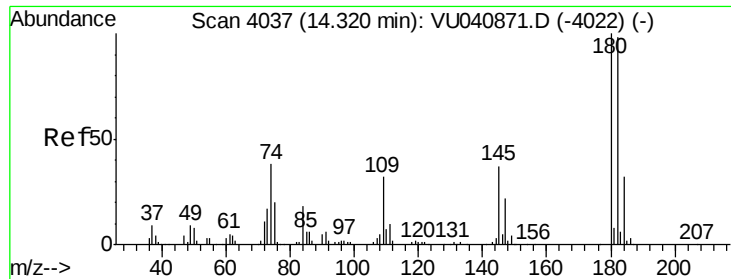
#69
 Naphthalene
 Concen: 0.175 ug/L
 RT: 14.08 min Scan# 3962
 Delta R.T. 0.00 min
 Lab File: VU040882.D
 Acq: 21 Oct 2020 19:03

Tgt Ion:128 Resp: 6589
 Ion Ratio Lower Upper
 128 100
 129 10.4 8.9 13.3
 127 13.1 10.3 15.5



Abundance Ion 128.00 (127.70 to 128.70): V
 5000 Ion 129.00 (128.70 to 129.70): V
 Ion 127.00 (126.70 to 127.70): V





#70
 1,2,3-Trichlorobenzene
 Concen: 0.090 ug/L
 RT: 14.32 min Scan# 4037
 Delta R.T. -0.00 min
 Lab File: VU040882.D
 Acq: 21 Oct 2020 19:03

Instrument :
 MSVOA_U
 ClientSampleId :
 ETZ46

Tot Ion	Ratio	Lower	Upper
180	100		
182	140.7	75.8	113.6#
145	28.8	28.2	42.2

