

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU101718\
 Data File : VU027675.D
 Acq On : 17 Oct 2018 13:54
 Operator : MD/SY
 Sample : J5463-06
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 C0JB7

Quant Time: Oct 19 06:49:02 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR101718WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Oct 19 06:41:15 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	80333	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	77022	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	39657	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	28191	4.42	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	88.40%
7) Chloroethane-d5	1.68	69	22448	4.68	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	93.60%
11) 1,1-Dichloroethene-d2	2.28	63	39037	3.44	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	68.80%
20) 2-Butanone-d5	4.21	46	85919	47.33	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	94.66%
24) Chloroform-d	4.65	84	46724	4.70	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.00%
26) 1,2-Dichloroethane-d4	5.31	65	25973	4.65	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.00%
32) Benzene-d6	5.34	84	98990	4.71	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.20%
36) 1,2-Dichloropropane-d6	6.33	67	35194	4.81	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	96.20%
41) Toluene-d8	7.57	98	96215	4.74	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.80%
43) trans-1,3-Dichloropropene-	7.85	79	14612	4.53	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	90.60%
46) 2-Hexanone-d5	8.32	63	76598	48.40	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	96.80%
57) 1,1,2,2-Tetrachloroethane-	10.44	84	26075	4.57	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	91.40%
64) 1,2-Dichlorobenzene-d4	11.86	152	35524	4.78	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	95.60%

Target Compounds

					Qvalue
3) Chloromethane	1.33	50	682	0.087 ug/L #	82
5) Vinyl chloride	1.41	62	962	0.123 ug/L #	1
8) Chloroethane	1.50	64	75215	16.645 ug/L #	49
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	372	0.068 ug/L #	20
12) 1,1-Dichloroethene	2.28	96	594	0.109 ug/L #	1
13) Acetone	2.33	43	2611	2.249 ug/L	76
14) Carbon disulfide	2.48	76	1865	0.099 ug/L #	80
17) Methyl tert-butyl Ether	3.00	73	763	0.051 ug/L #	53
18) trans-1,2-Dichloroethene	2.99	96	410	0.071 ug/L #	64
19) 1,1-Dichloroethane	3.45	63	1018	0.089 ug/L #	53
21) 2-Butanone	4.26	43	3765	1.867 ug/L	84
22) cis-1,2-Dichloroethene	4.22	96	588	0.092 ug/L #	53
34) Trichloroethene	6.19	95	503	0.077 ug/L #	62
35) Methylcyclohexane	6.34	83	7892	0.702 ug/L #	16
37) 1,2-Dichloropropane	6.33	63	3569	0.493 ug/L #	89
39) cis-1,3-Dichloropropene	7.23	75	780	0.074 ug/L #	47
42) Toluene	7.64	91	1210	0.045 ug/L	98

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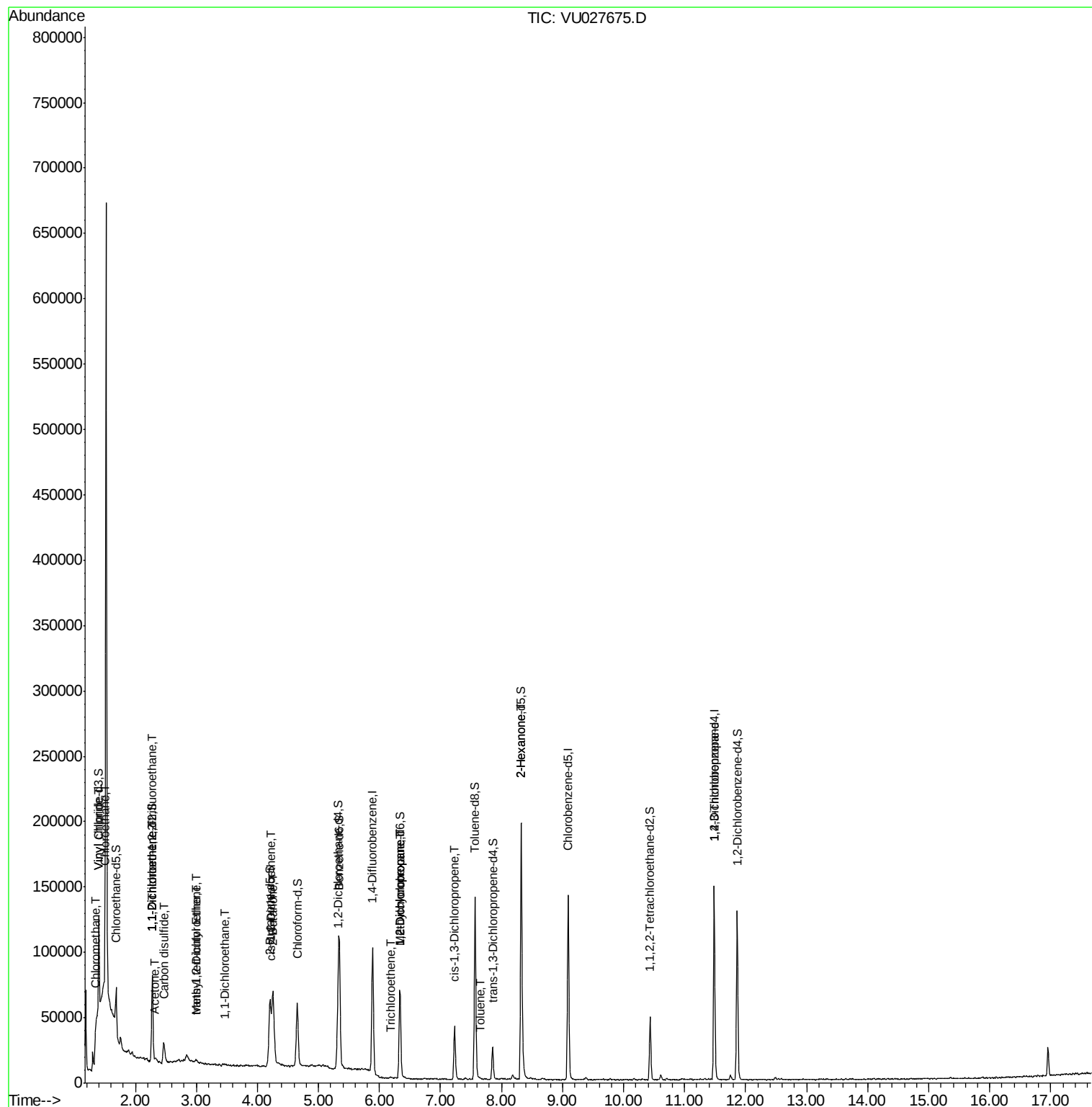
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 2-Hexanone	8.32	43	9781	2.794	ug/L #	66
59) 1,2,3-Trichloropropane	11.48	75	4763	1.145	ug/L	89

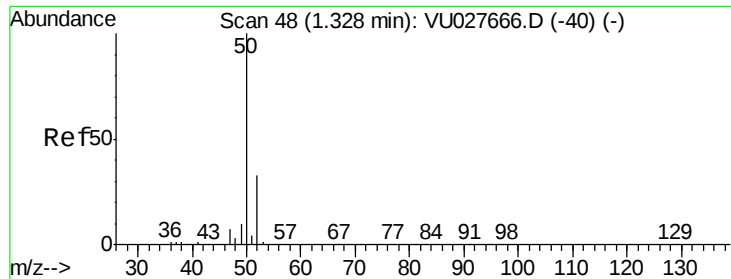
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.087 ug/L

RT: 1.33 min Scan# 50

Delta R.T. 0.01 min

Lab File: VU027675.D

Acq: 17 Oct 2018 13:54

Instrument :

MSVOA_U

ClientSampleId :

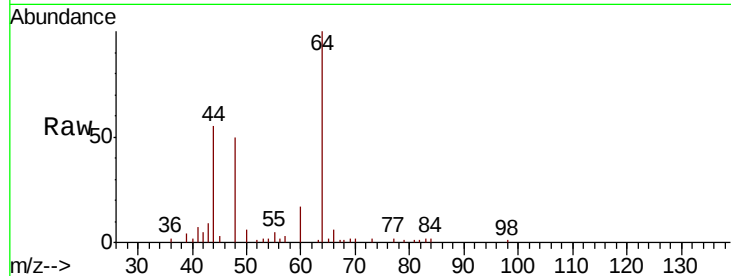
C0JB7

Tgt Ion: 50 Resp: 682

Ion Ratio Lower Upper

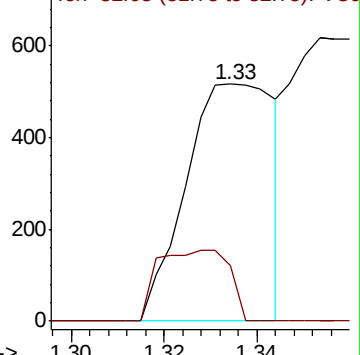
50 100

52 23.3 23.4 43.6#

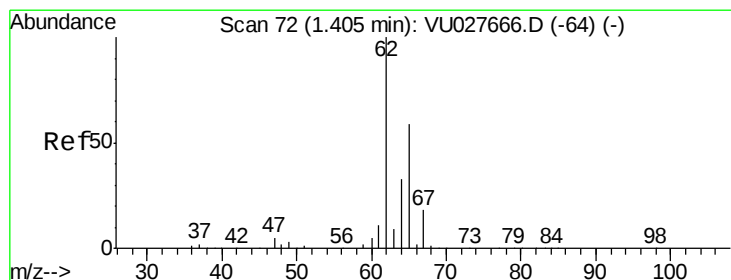
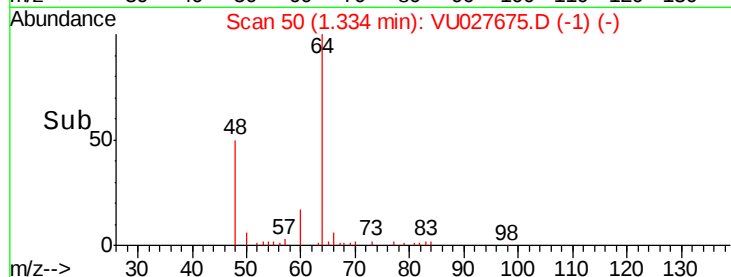


Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0



Time-->



#5

Vinyl chloride

Concen: 0.123 ug/L

RT: 1.41 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU027675.D

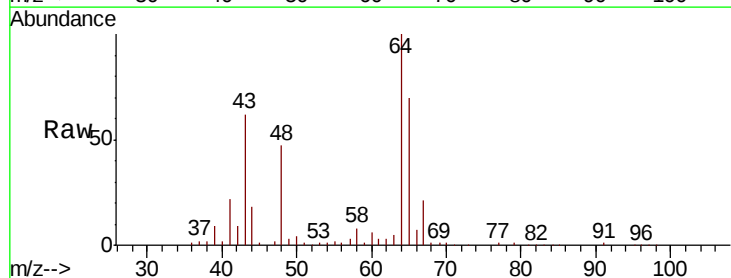
Acq: 17 Oct 2018 13:54

Tgt Ion: 62 Resp: 962

Ion Ratio Lower Upper

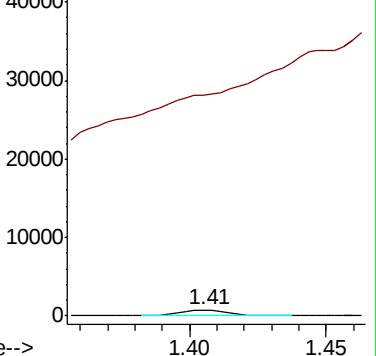
62 100

64 3915.4 22.9 42.5#

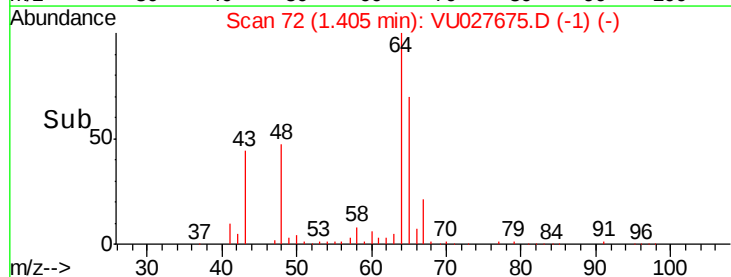


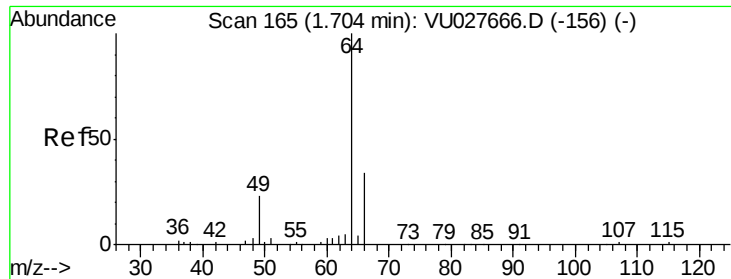
Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



Time-->

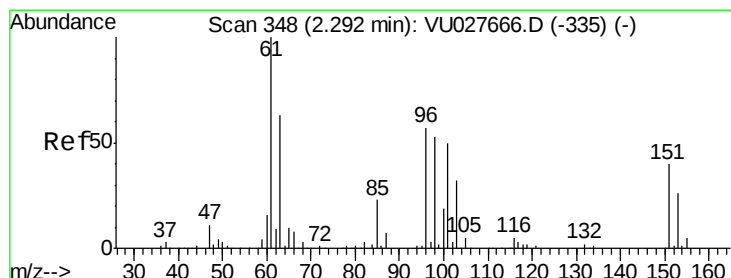
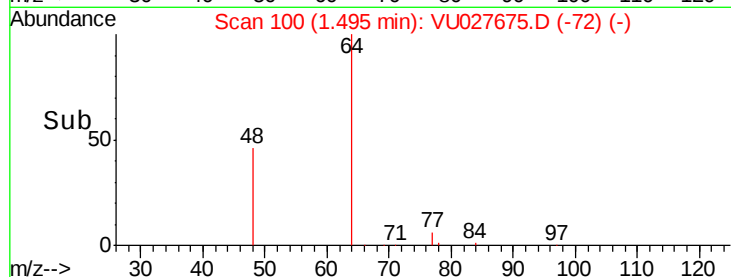
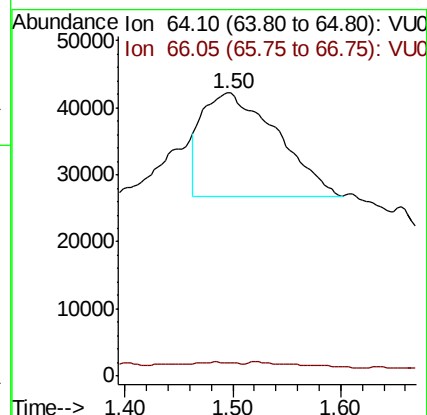
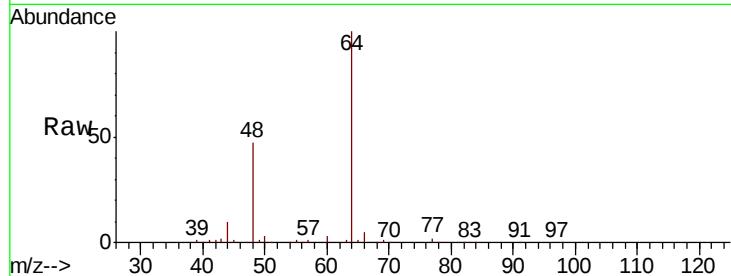




#8
Chloroethane
Concen: 16.645 ug/L
RT: 1.50 min Scan# 100
Delta R.T. -0.21 min
Lab File: VU027675.D
Acq: 17 Oct 2018 13:54

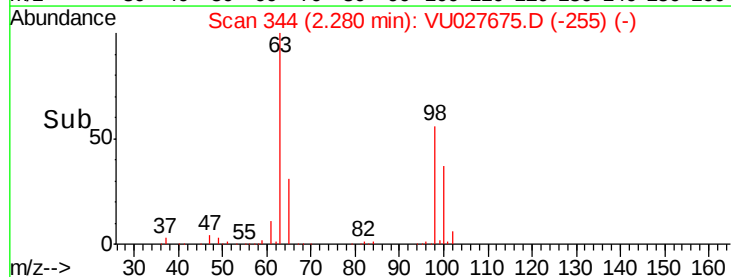
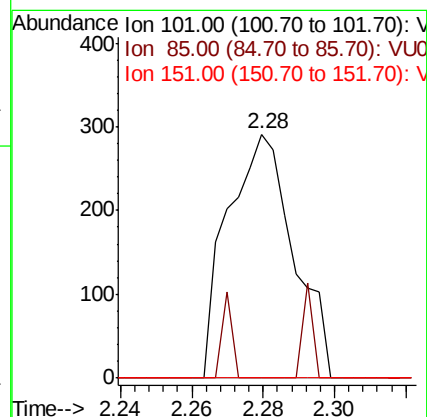
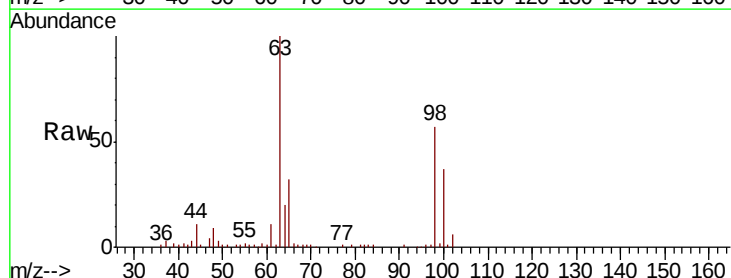
Instrument :
MSVOA_U
ClientSampleId :
C0JB7

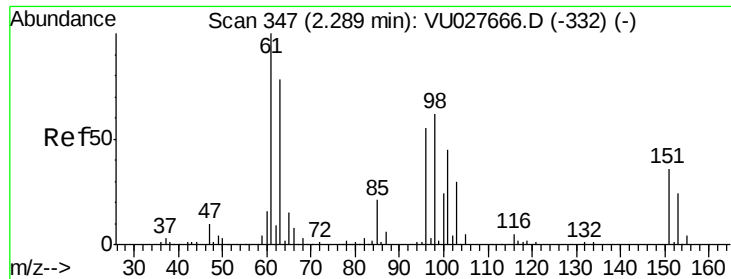
Tgt Ion: 64 Resp: 75215
Ion Ratio Lower Upper
64 100
66 4.5 23.5 43.7#



#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.068 ug/L
RT: 2.28 min Scan# 344
Delta R.T. -0.01 min
Lab File: VU027675.D
Acq: 17 Oct 2018 13:54

Tgt Ion: 101 Resp: 372
Ion Ratio Lower Upper
101 100
85 5.4 35.6 53.4#
151 0.0 63.8 95.6#





#12

1,1-Dichloroethene

Concen: 0.109 ug/L

RT: 2.28 min Scan# 343

Delta R.T. -0.01 min

Lab File: VU027675.D

Acq: 17 Oct 2018 13:54

Instrument :

MSVOA_U

ClientSampleId :

C0JB7

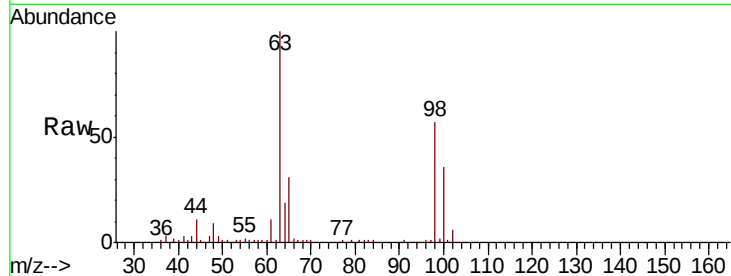
Tgt Ion: 96 Resp: 594

Ion Ratio Lower Upper

96 100

61 804.0 125.6 233.2#

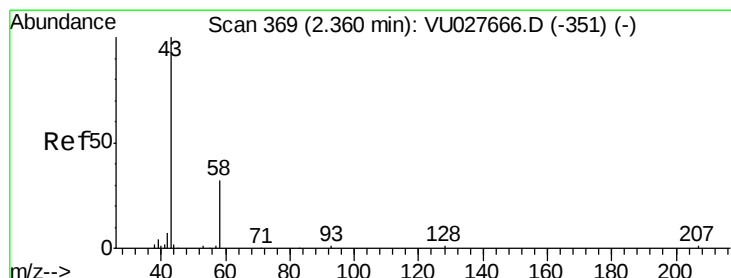
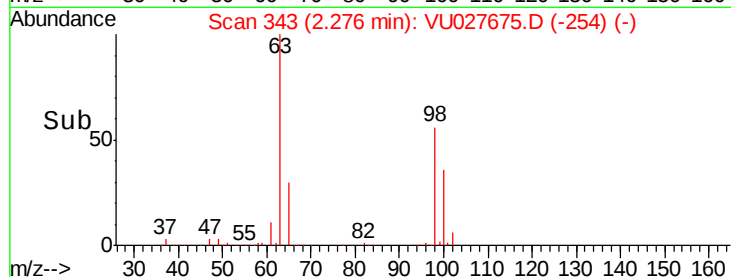
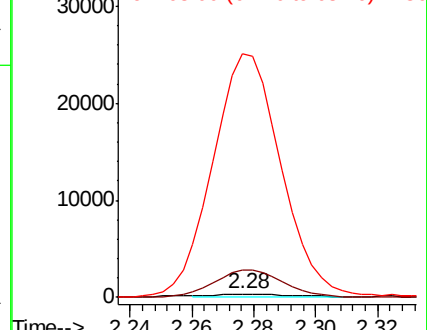
63 7107.1 97.6 181.2#



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



#13

Acetone

Concen: 2.249 ug/L

RT: 2.33 min Scan# 360

Delta R.T. -0.03 min

Lab File: VU027675.D

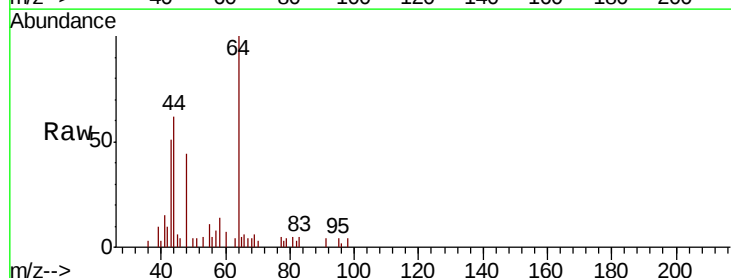
Acq: 17 Oct 2018 13:54

Tgt Ion: 43 Resp: 2611

Ion Ratio Lower Upper

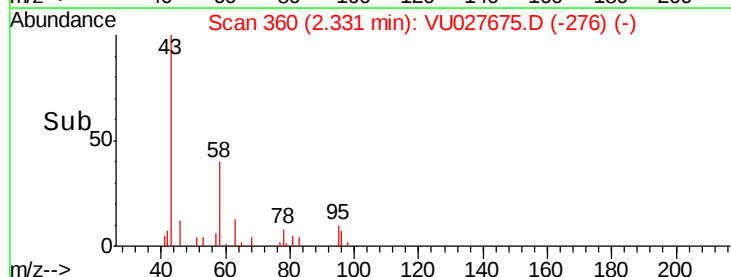
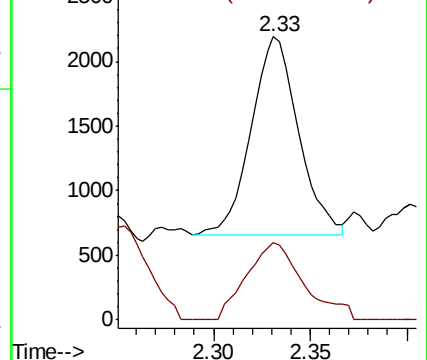
43 100

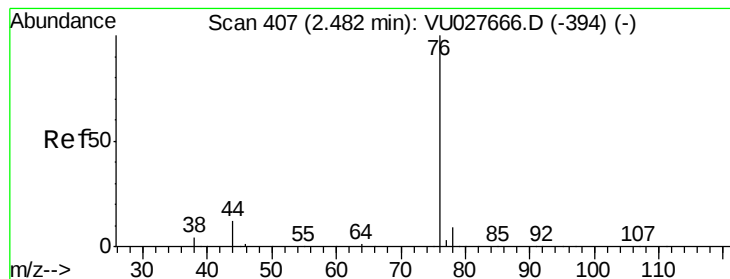
58 47.1 0.0 66.4



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0





#14

Carbon disulfide

Concen: 0.099 ug/L

RT: 2.48 min Scan# 407

Delta R.T. 0.00 min

Lab File: VU027675.D

Acq: 17 Oct 2018 13:54

Instrument :

MSVOA_U

ClientSampleId :

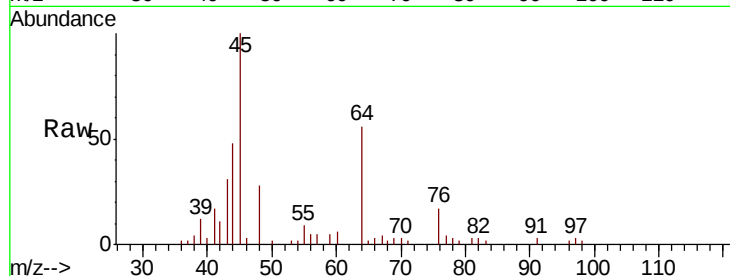
C0JB7

Tgt Ion: 76 Resp: 1865

Ion Ratio Lower Upper

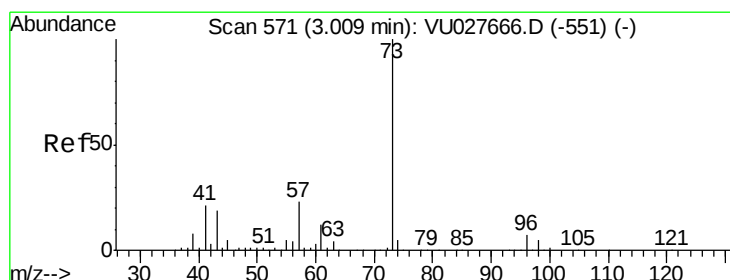
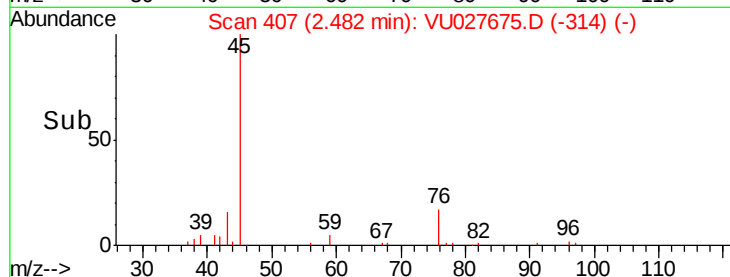
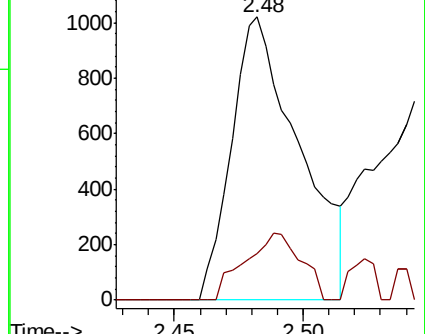
76 100

78 16.5 7.4 11.0#



Abundance Ion 76.05 (75.75 to 76.75): VU0

Ion 78.00 (77.70 to 78.70): VU0



#17

Methyl tert-butyl Ether

Concen: 0.051 ug/L

RT: 3.00 min Scan# 569

Delta R.T. -0.01 min

Lab File: VU027675.D

Acq: 17 Oct 2018 13:54

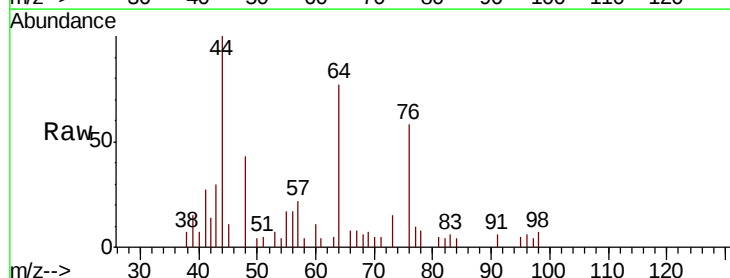
Tgt Ion: 73 Resp: 763

Ion Ratio Lower Upper

73 100

43 22.1 15.8 23.8

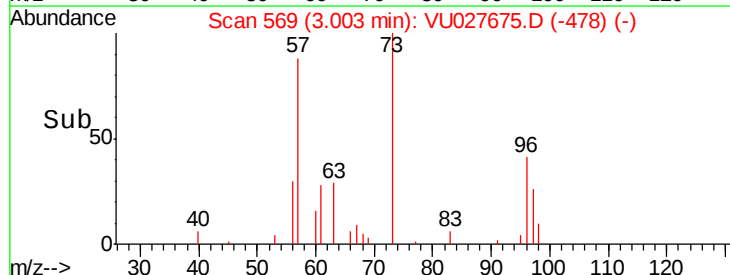
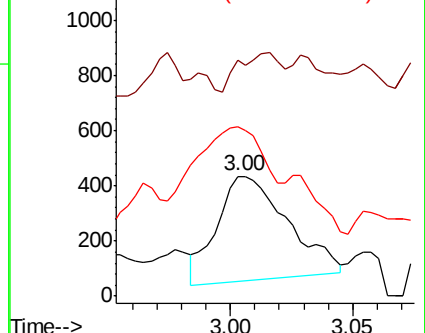
57 63.6 18.7 28.1#

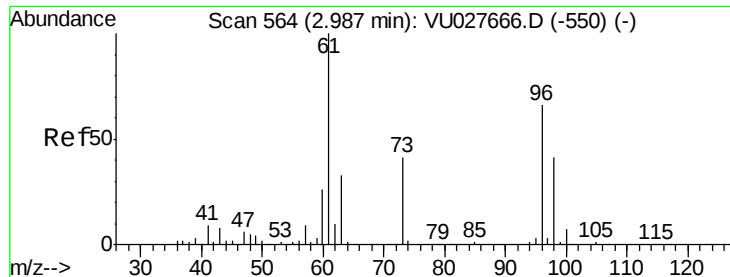


Abundance Ion 73.10 (72.80 to 73.80): VU0

Ion 43.05 (42.75 to 43.75): VU0

Ion 57.10 (56.80 to 57.80): VU0





#18

trans-1,2-Dichloroethene

Concen: 0.071 ug/L

RT: 2.99 min Scan# 565

Delta R.T. 0.00 min

Lab File: VU027675.D

Acq: 17 Oct 2018 13:54

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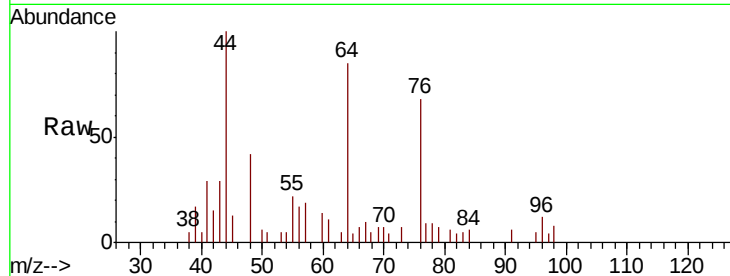
Tgt Ion: 96 Resp: 410

Ion Ratio Lower Upper

96 100

61 90.7 105.8 196.4#

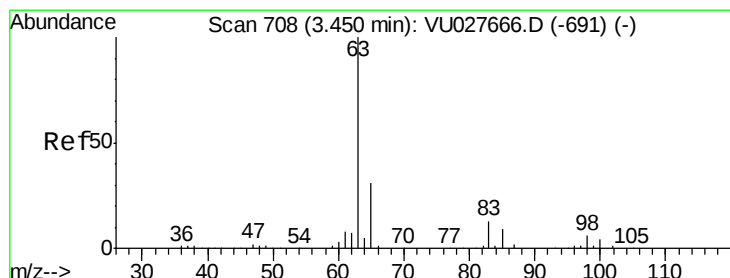
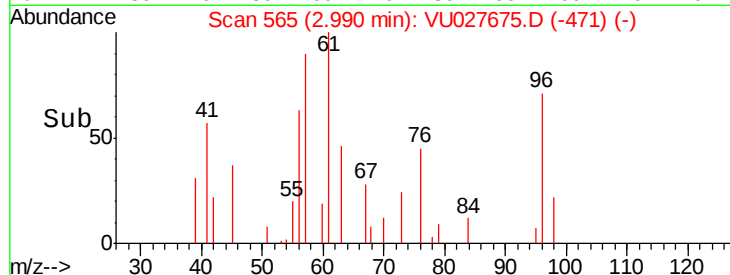
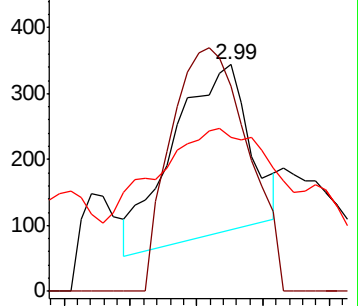
98 67.7 43.6 81.0



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 97.95 (97.65 to 98.65): VU0



#19

1,1-Dichloroethane

Concen: 0.089 ug/L

RT: 3.45 min Scan# 708

Delta R.T. 0.00 min

Lab File: VU027675.D

Acq: 17 Oct 2018 13:54

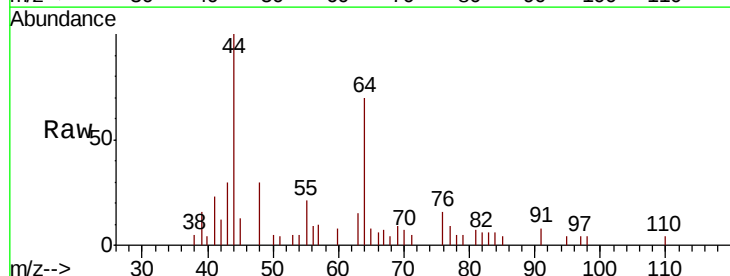
Tgt Ion: 63 Resp: 1018

Ion Ratio Lower Upper

63 100

65 52.0 22.3 41.3#

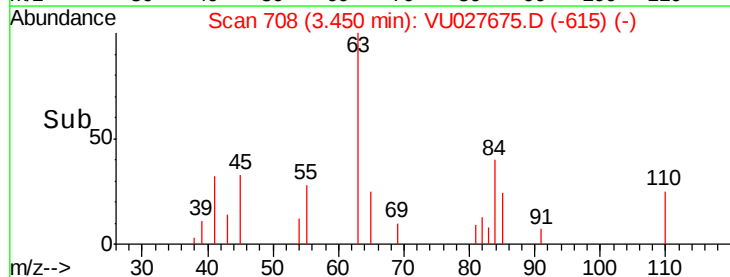
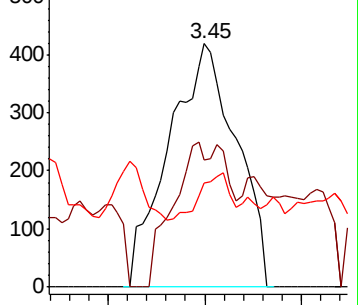
83 43.0 9.7 17.9#

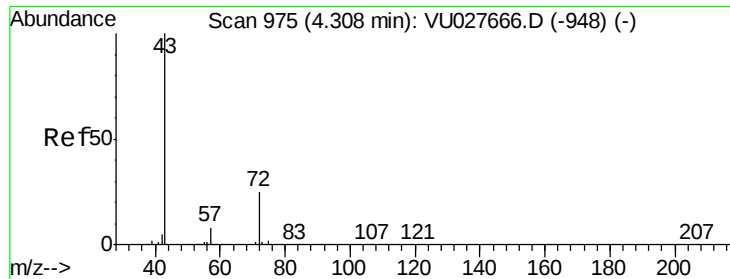


Abundance Ion 63.10 (62.80 to 63.80): VU0

Ion 65.10 (64.80 to 65.80): VU0

Ion 83.05 (82.75 to 83.75): VU0





#21

2-Butanone

Concen: 1.867 ug/L

RT: 4.26 min Scan# 959

Delta R.T. -0.05 min

Lab File: VU027675.D

Acq: 17 Oct 2018 13:54

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ClientSampleId :

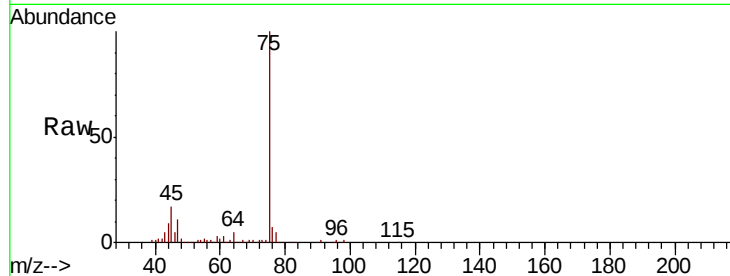
C0JB7

Tgt Ion: 43 Resp: 3765

Ion Ratio Lower Upper

43 100

72 15.6 11.7 35.1



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 72.10 (71.80 to 72.80): VU0

4.26

2000

1500

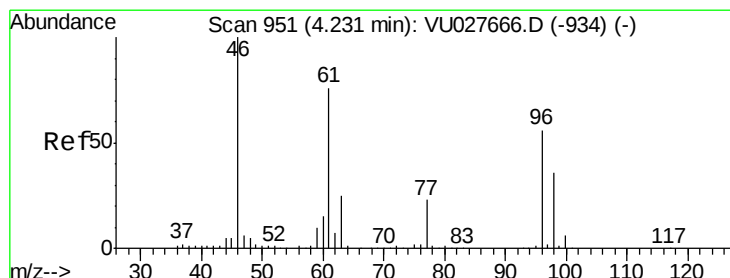
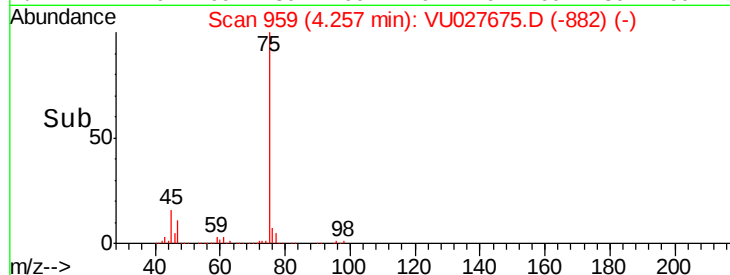
1000

500

0

4.20 4.25 4.30 4.35

Time-->



#22

cis-1,2-Dichloroethene

Concen: 0.092 ug/L

RT: 4.22 min Scan# 949

Delta R.T. -0.01 min

Lab File: VU027675.D

Acq: 17 Oct 2018 13:54

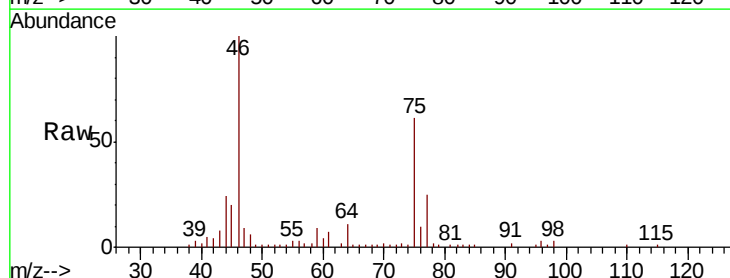
Tgt Ion: 96 Resp: 588

Ion Ratio Lower Upper

96 100

61 192.1 95.3 176.9#

68 25.0 1.1 2.1#



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 68.15 (67.85 to 68.85): VU0

1500

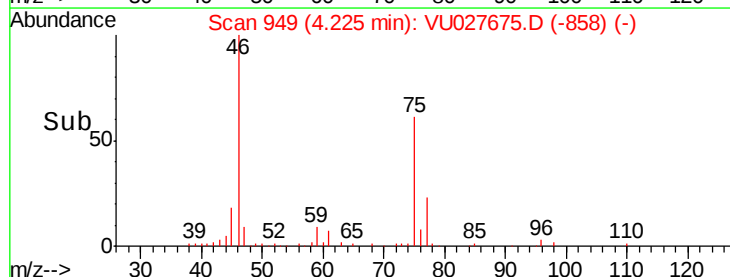
1000

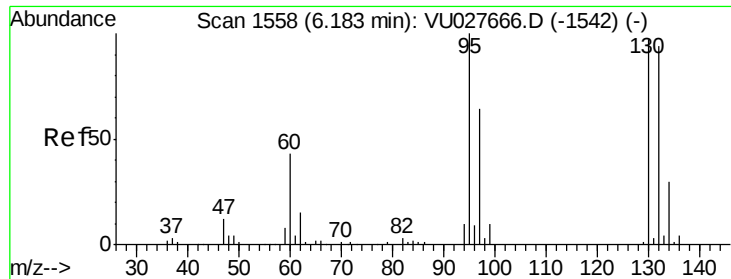
500

0

4.16 4.18 4.20 4.22 4.24

Time-->





#34

Trichloroethene

Concen: 0.077 ug/L

RT: 6.19 min Scan# 1560

Delta R.T. 0.01 min

Lab File: VU027675.D

Acq: 17 Oct 2018 13:54

Instrument :

MSVOA_U

ClientSampleId :

C0JB7

Tgt Ion: 95 Resp: 503

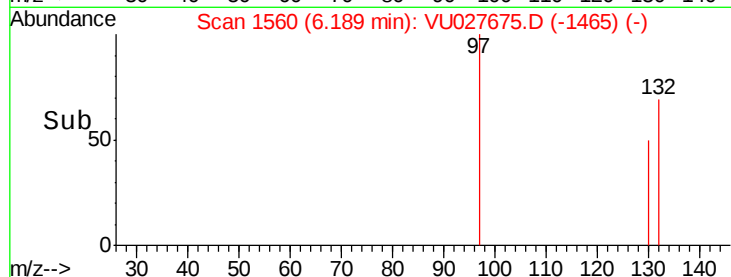
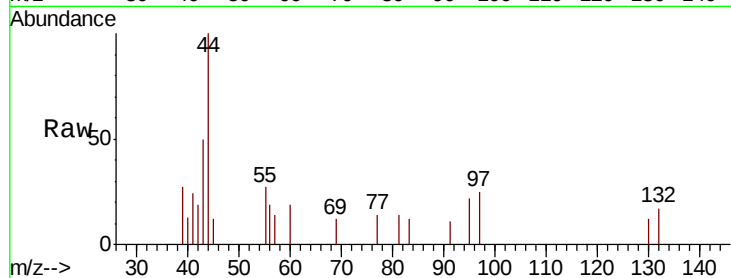
Ion Ratio Lower Upper

95 100

97 111.2 44.7 83.1#

132 76.7 65.9 122.5

130 55.3 67.9 126.1#

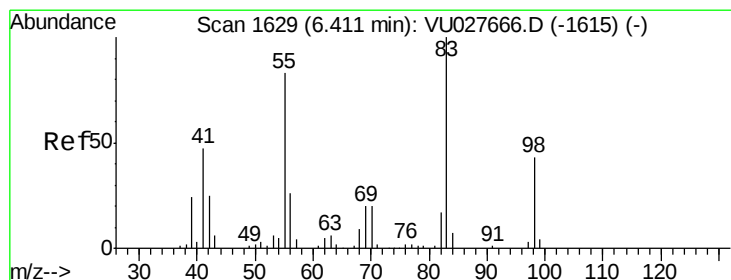
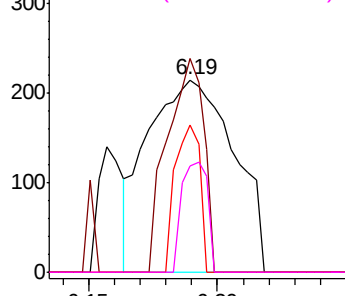


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 0.702 ug/L

RT: 6.34 min Scan# 1606

Delta R.T. -0.07 min

Lab File: VU027675.D

Acq: 17 Oct 2018 13:54

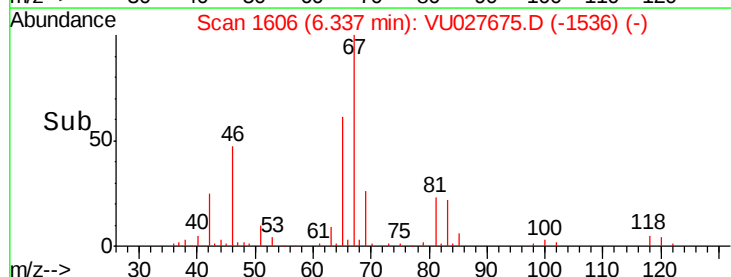
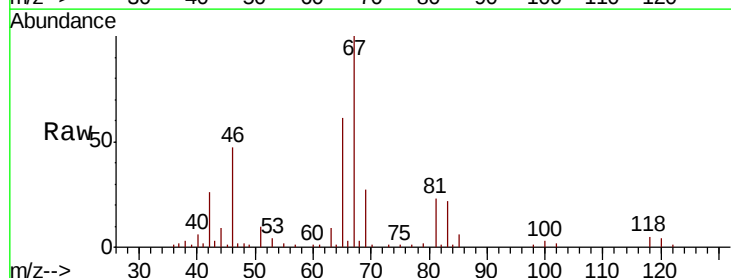
Tgt Ion: 83 Resp: 7892

Ion Ratio Lower Upper

83 100

55 0.8 69.0 103.4#

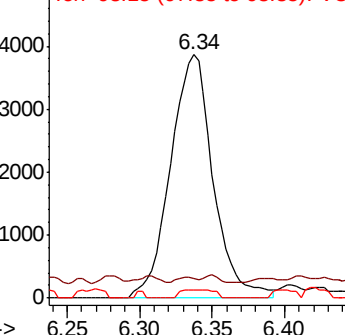
98 1.5 35.4 53.2#

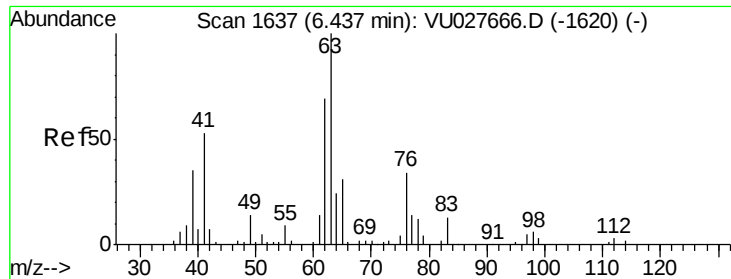


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 0.493 ug/L

RT: 6.33 min Scan# 1605

Delta R.T. -0.10 min

Lab File: VU027675.D

Acq: 17 Oct 2018 13:54

Instrument :

MSVOA_U

ClientSampleId :

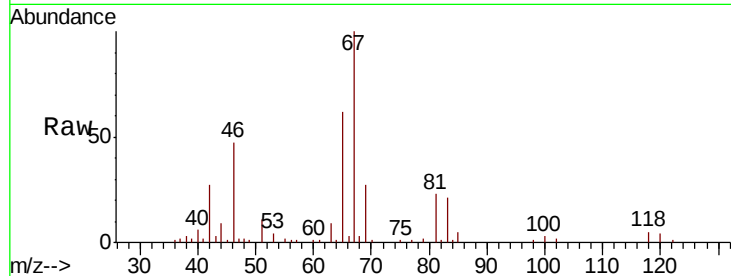
C0JB7

Tgt Ion: 63 Resp: 3569

Ion Ratio Lower Upper

63 100

112 0.0 2.8 4.2#



Abundance Ion 63.10 (62.80 to 63.80): VU027666.D (-1620) (-)

Ion 112.10 (111.80 to 112.80): VU027666.D (-1620) (-)

6.33

1500

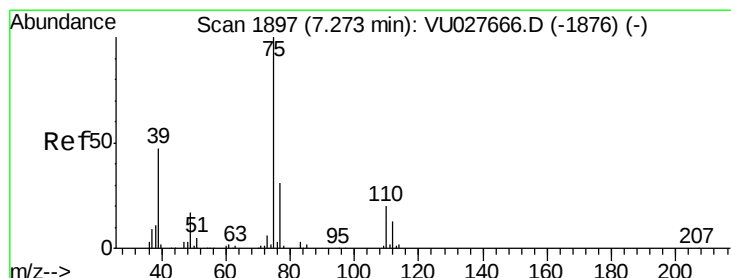
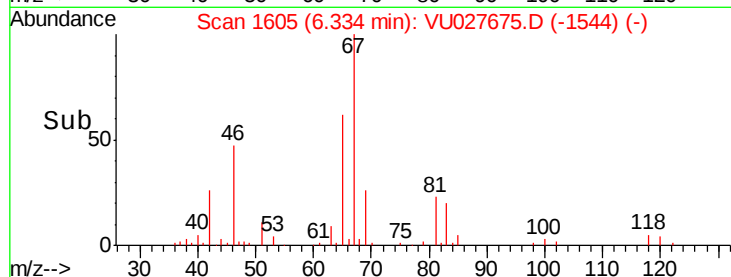
1000

500

0

6.30 6.35 6.40

Time-->



#39

cis-1,3-Dichloropropene

Concen: 0.074 ug/L

RT: 7.23 min Scan# 1885

Delta R.T. -0.04 min

Lab File: VU027675.D

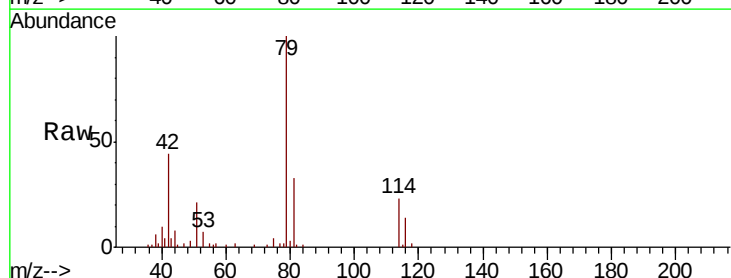
Acq: 17 Oct 2018 13:54

Tgt Ion: 75 Resp: 780

Ion Ratio Lower Upper

75 100

77 61.2 22.2 41.2#



Abundance Ion 75.05 (74.75 to 75.75): VU027666.D (-1876) (-)

Ion 77.05 (76.75 to 77.75): VU027666.D (-1876) (-)

7.23

500

400

300

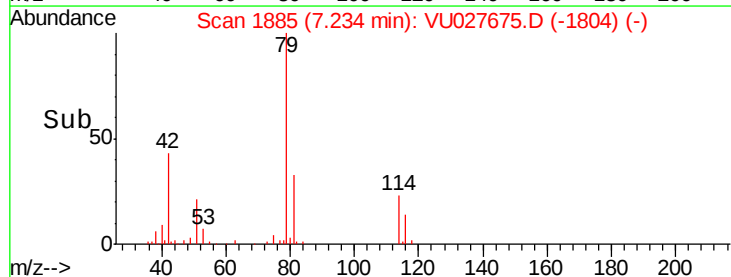
200

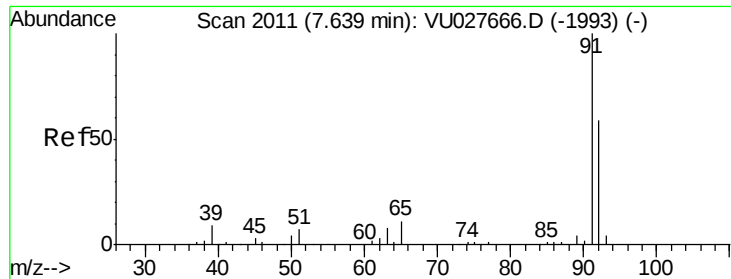
100

0

7.20 7.22 7.24 7.26

Time-->





#42

Toluene

Concen: 0.045 ug/L

RT: 7.64 min Scan# 2011

Delta R.T. 0.00 min

Lab File: VU027675.D

Acq: 17 Oct 2018 13:54

Instrument :

MSVOA_U

ClientSampleId :

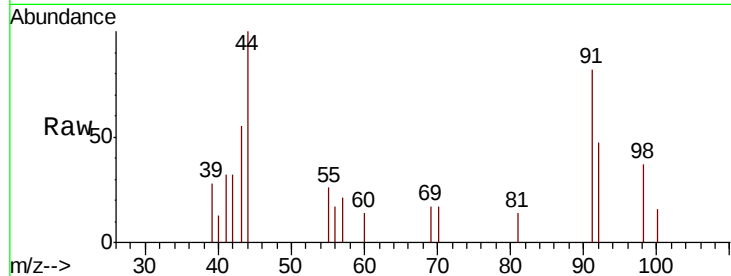
C0JB7

Tgt Ion: 91 Resp: 1210

Ion Ratio Lower Upper

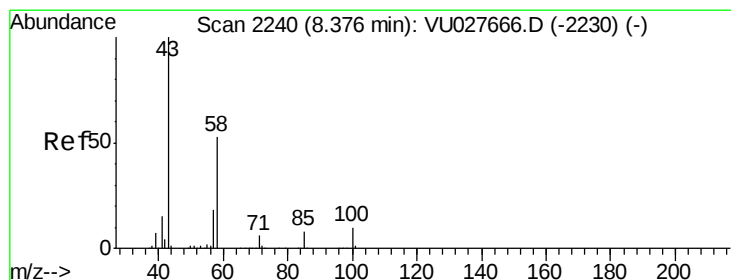
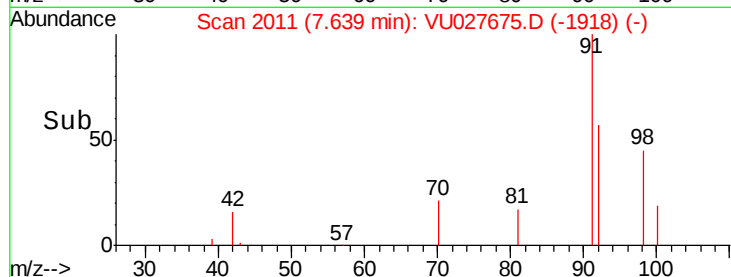
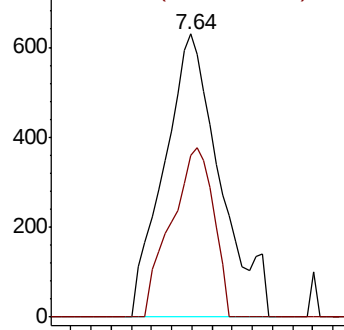
91 100

92 57.1 41.1 76.3



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 92.15 (91.85 to 92.85): VU0



#48

2-Hexanone

Concen: 2.794 ug/L

RT: 8.32 min Scan# 2223

Delta R.T. -0.05 min

Lab File: VU027675.D

Acq: 17 Oct 2018 13:54

Tgt Ion: 43 Resp: 9781

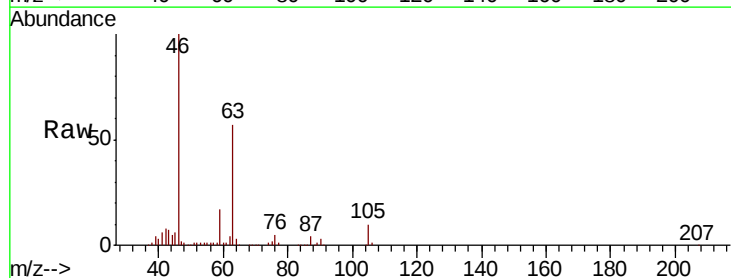
Ion Ratio Lower Upper

43 100

58 21.2 42.7 64.1#

57 16.5 14.5 21.7

100 0.0 8.1 12.1#

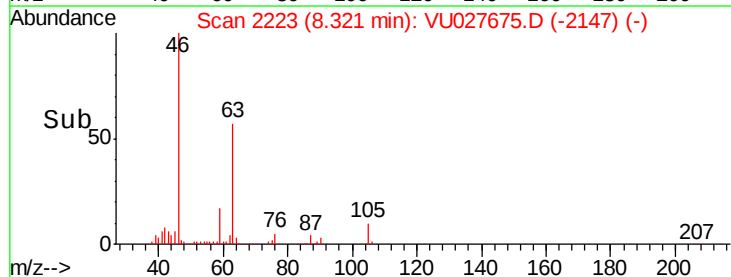
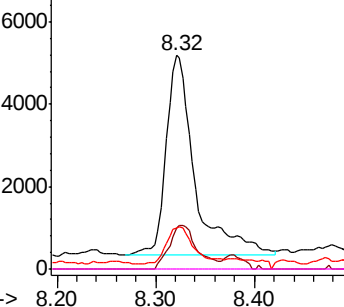


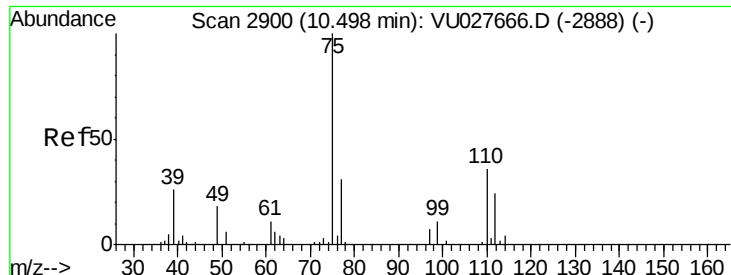
Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

Ion 57.20 (56.90 to 57.90): VU0

Ion 100.15 (99.85 to 100.85): VU0





#59

1,2,3-Trichloropropane

Concen: 1.145 ug/L

RT: 11.48 min Scan# 3207

Delta R.T. 0.99 min

Lab File: VU027675.D

Acq: 17 Oct 2018 13:54

Instrument :

MSVOA_U

ClientSampleId :

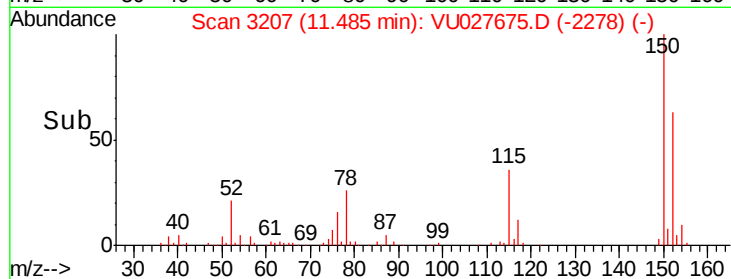
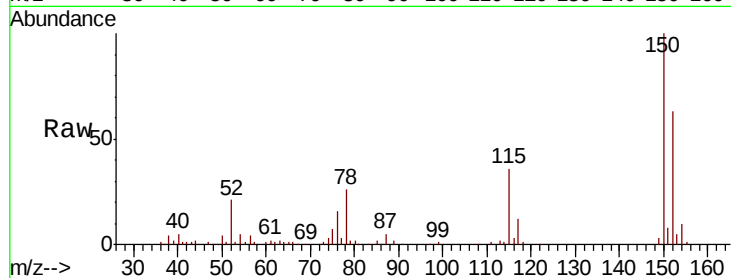
C0JB7

Tgt Ion: 75 Resp: 4763

Ion Ratio Lower Upper

75 100

77 39.8 26.9 40.3



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

