

Data File : VU028257.D
Acq On : 19 Nov 2018 16:27
Operator : MD/SY
Sample : J5986-01 10X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
H0FG7

Quant Time: Nov 20 07:12:33 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR111718WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Nov 20 07:07:24 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	130299	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	124917	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	53732	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	44348	4.52	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	90.40%
7) Chloroethane-d5	1.68	69	39608	4.68	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	93.60%
11) 1,1-Dichloroethene-d2	2.28	63	65514	3.36	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	67.20%
20) 2-Butanone-d5	4.20	46	157387	47.97	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	95.94%
24) Chloroform-d	4.65	84	82796	4.53	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.60%
26) 1,2-Dichloroethane-d4	5.31	65	48120	4.76	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.20%
32) Benzene-d6	5.34	84	165793	4.61	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.20%
36) 1,2-Dichloropropane-d6	6.33	67	62510	4.79	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	95.80%
41) Toluene-d8	7.57	98	144610	4.49	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.80%
43) trans-1,3-Dichloropropene-	7.85	79	18553	4.45	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	89.00%
46) 2-Hexanone-d5	8.31	63	109661	43.84	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	87.68%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	45001	4.77	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	95.40%
64) 1,2-Dichlorobenzene-d4	11.86	152	50029	5.01	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	100.20%

Target Compounds

					Qvalue	
5) Vinyl chloride	1.40	62	12544	0.949	ug/L #	65
8) Chloroethane	1.72	64	1445	0.185	ug/L #	45
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	623	0.073	ug/L #	21
12) 1,1-Dichloroethene	2.28	96	716	0.089	ug/L #	1
13) Acetone	2.32	43	1942	0.861	ug/L	82
17) Methyl tert-butyl Ether	3.01	73	39091	1.622	ug/L	97
18) trans-1,2-Dichloroethene	2.98	96	3120	0.365	ug/L	89
19) 1,1-Dichloroethane	3.44	63	2135	0.108	ug/L	97
22) cis-1,2-Dichloroethene	4.23	96	75513	7.476	ug/L	96
25) Chloroform	4.67	83	5863	0.273	ug/L	99
34) Trichloroethene	6.19	95	76354	7.567	ug/L	93
35) Methylcyclohexane	6.33	83	12622	0.794	ug/L #	14
37) 1,2-Dichloropropane	6.33	63	6001	0.510	ug/L #	92
39) cis-1,3-Dichloropropene	7.23	75	1045	0.070	ug/L #	83
47) Tetrachloroethene	8.23	164	955	0.136	ug/L	88
48) 2-Hexanone	8.36	43	4137	0.690	ug/L #	78
49) Dibromochloromethane	8.22	129	846	0.118	ug/L #	10

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU111918\
Quantitation Report (Not Reviewed)

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
59) 1,2,3-Trichloropropane	11.48	75	7792	1.147	ug/L	97

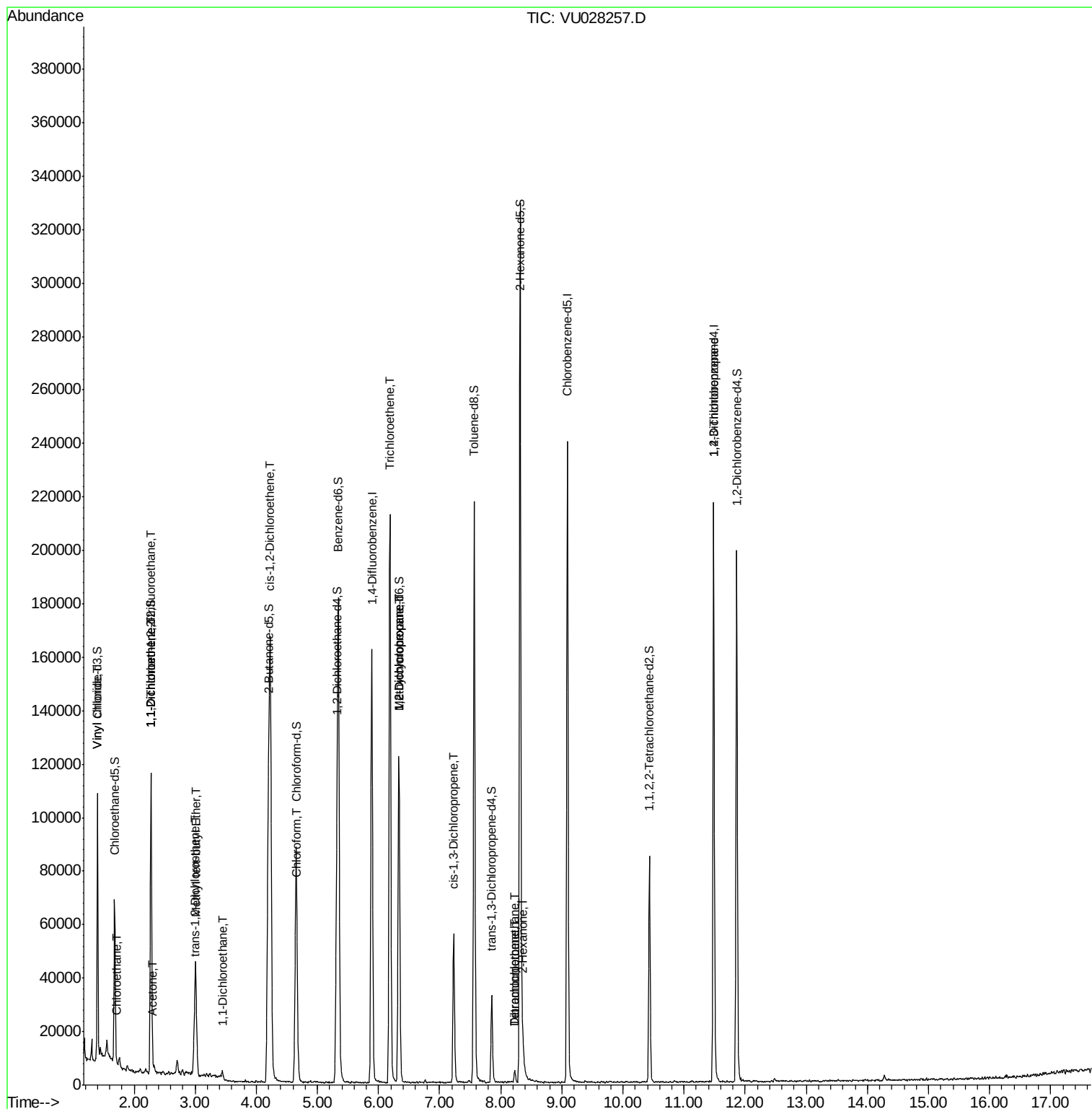
(#) = qualifier out of range (m) = manual integration (+) = signals summed

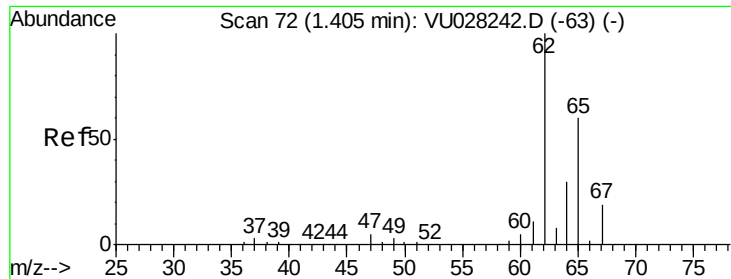
Data File : VU028257.D

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Response via : Initial Calibration





#5

Vinyl chloride

Concen: 0.949 ug/L

RT: 1.40 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU028257.D

Acq: 19 Nov 2018 16:27

Instrument :

MSVOA_U

ClientSampleId :

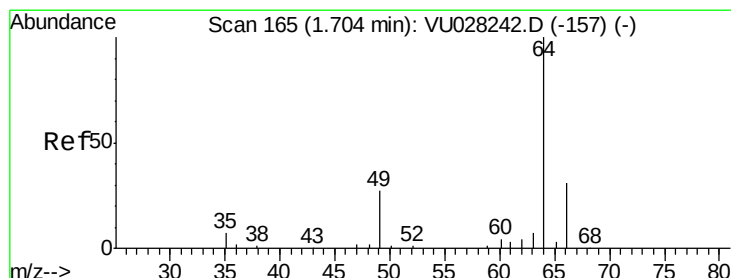
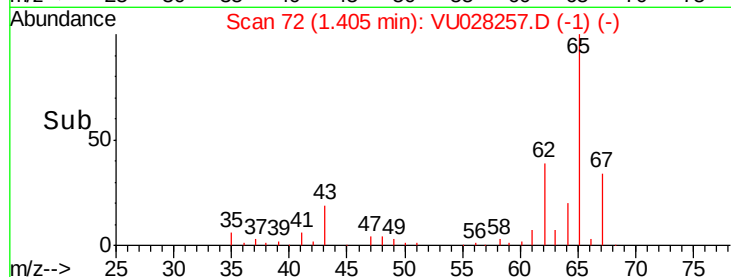
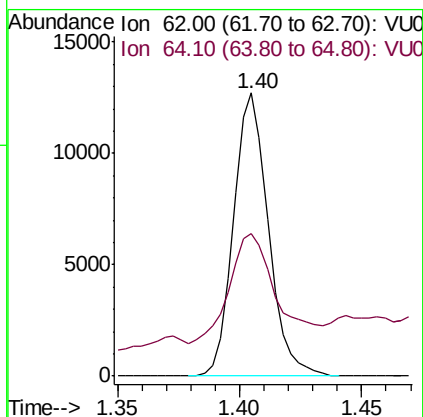
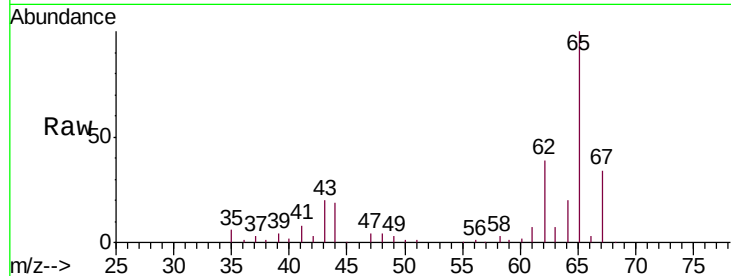
H0FG7

Tgt Ion: 62 Resp: 12544

Ion Ratio Lower Upper

62 100

64 50.4 21.7 40.3#



#8

Chloroethane

Concen: 0.185 ug/L

RT: 1.72 min Scan# 170

Delta R.T. 0.02 min

Lab File: VU028257.D

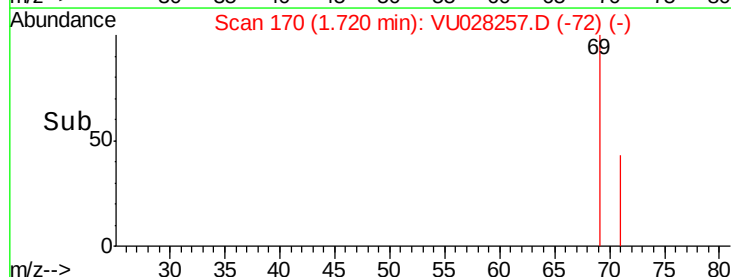
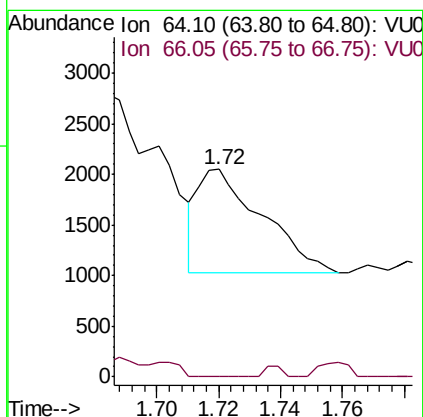
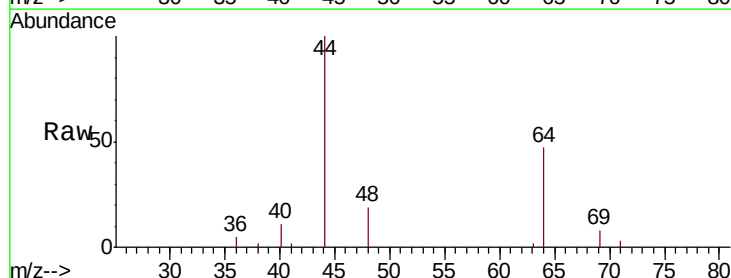
Acq: 19 Nov 2018 16:27

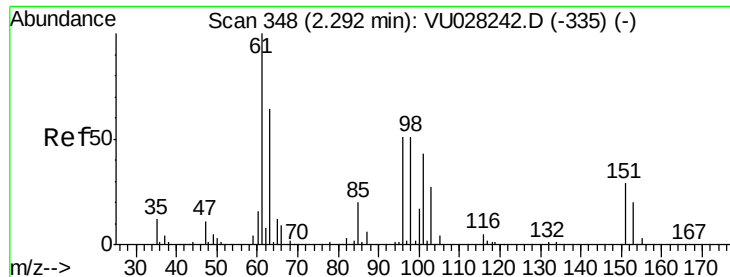
Tgt Ion: 64 Resp: 1445

Ion Ratio Lower Upper

64 100

66 0.0 20.7 38.5#





#10

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

Concen: 0.073 ug/L

RT: 2.27 min Scan# 342

Delta R.T. -0.02 min

Lab File: VU028257.D

Acq: 19 Nov 2018 16:27

Instrument :

MSVOA_U

ClientSampleId :

H0FG7

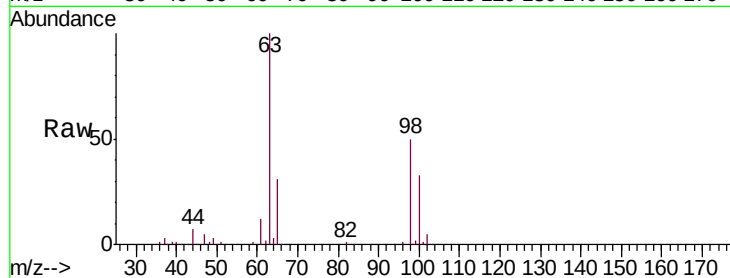
Tgt Ion: 101 Resp: 623

Ion Ratio Lower Upper

101 100

85 0.0 37.4 56.2#

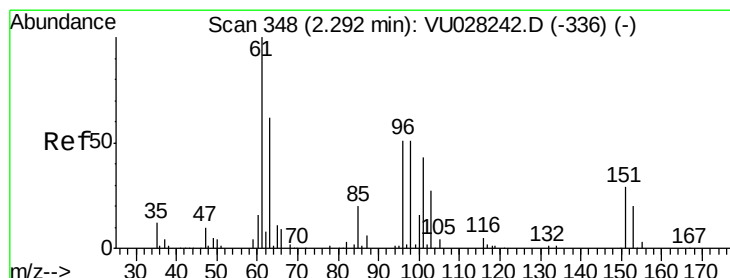
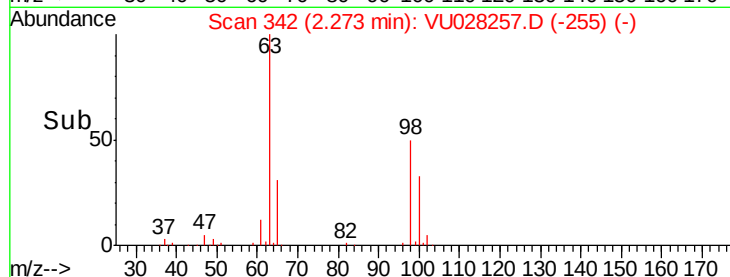
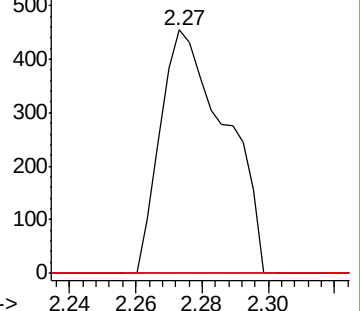
151 0.0 55.0 82.4#



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



#12

1,1-Dichloroethene

Concen: 0.089 ug/L

RT: 2.28 min Scan# 344

Delta R.T. -0.01 min

Lab File: VU028257.D

Acq: 19 Nov 2018 16:27

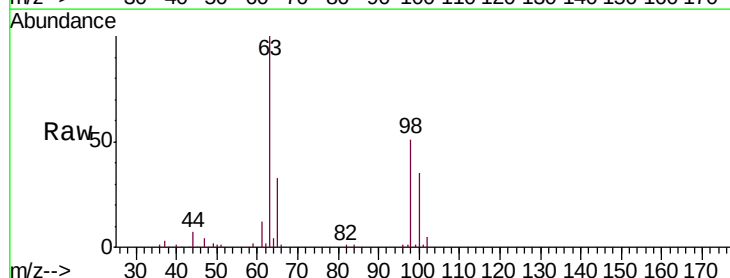
Tgt Ion: 96 Resp: 716

Ion Ratio Lower Upper

96 100

61 1214.3 145.5 270.1#

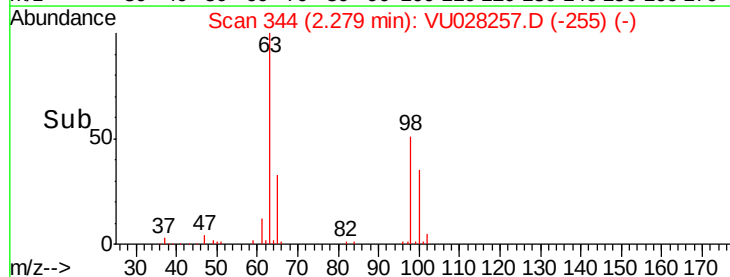
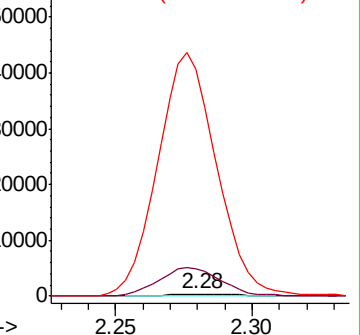
63 9901.0 98.6 183.2#

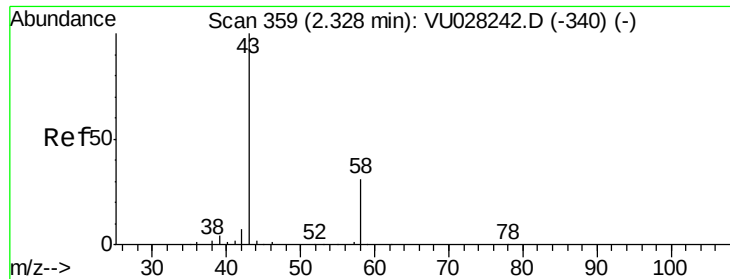


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 0.861 ug/L

RT: 2.32 min Scan# 356

Delta R.T. -0.01 min

Lab File: VU028257.D

Acq: 19 Nov 2018 16:27

Instrument :

MSVOA_U

ClientSampled :

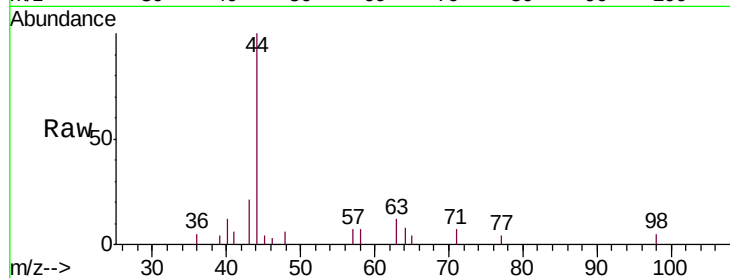
H0FG7

Tgt Ion: 43 Resp: 1942

Ion Ratio Lower Upper

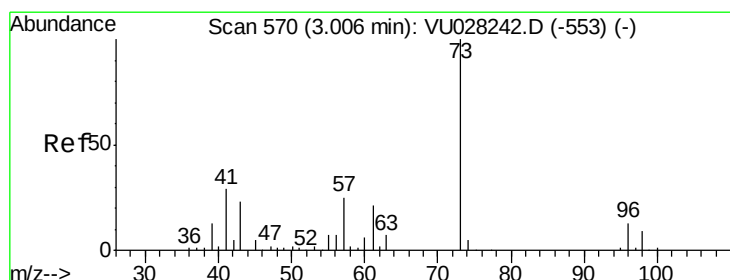
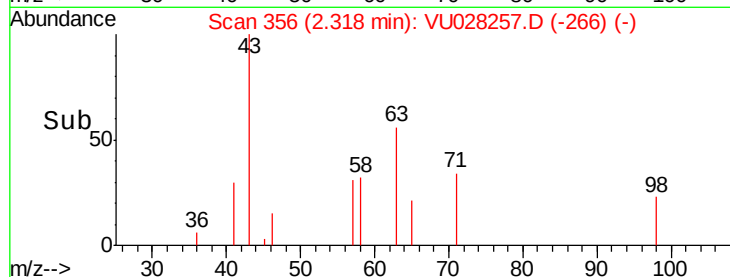
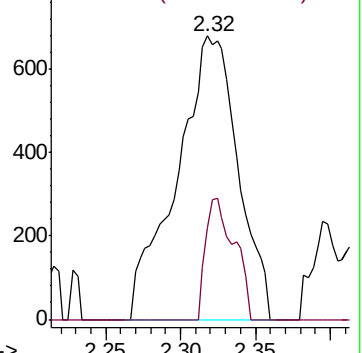
43 100

58 19.9 0.0 58.6



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0



#17

Methyl tert-butyl Ether

Concen: 1.622 ug/L

RT: 3.01 min Scan# 571

Delta R.T. 0.00 min

Lab File: VU028257.D

Acq: 19 Nov 2018 16:27

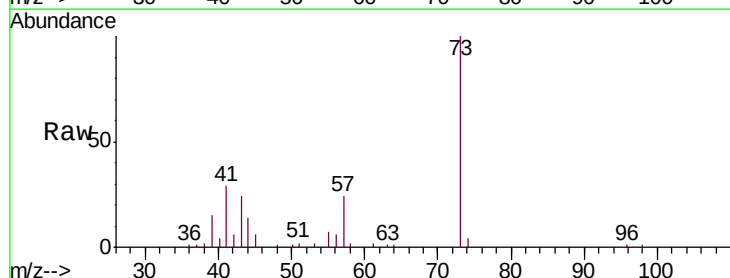
Tgt Ion: 73 Resp: 39091

Ion Ratio Lower Upper

73 100

43 25.0 18.8 28.2

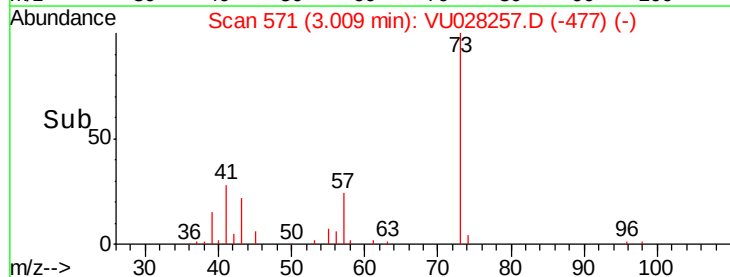
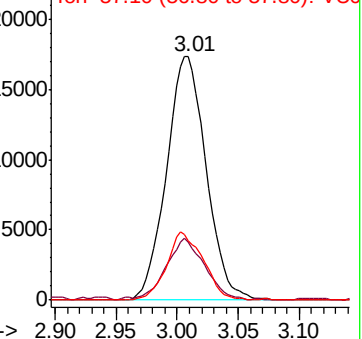
57 25.8 19.2 28.8

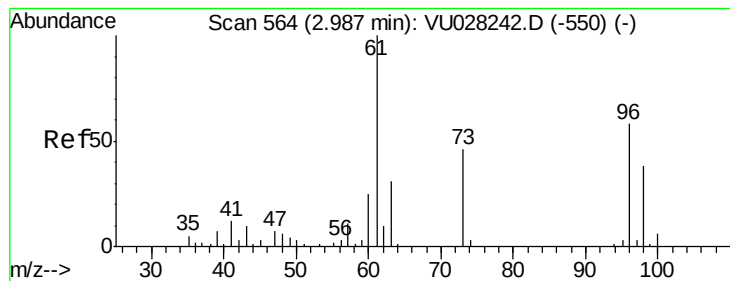


Abundance Ion 73.10 (72.80 to 73.80): VU0

Ion 43.05 (42.75 to 43.75): VU0

Ion 57.10 (56.80 to 57.80): VU0





#18

trans-1,2-Dichloroethene

Concen: 0.365 ug/L

RT: 2.98 min Scan# 562

Delta R.T. -0.01 min

Lab File: VU028257.D

Acq: 19 Nov 2018 16:27

Instrument :

MSVOA_U

ClientSampleId :

H0FG7

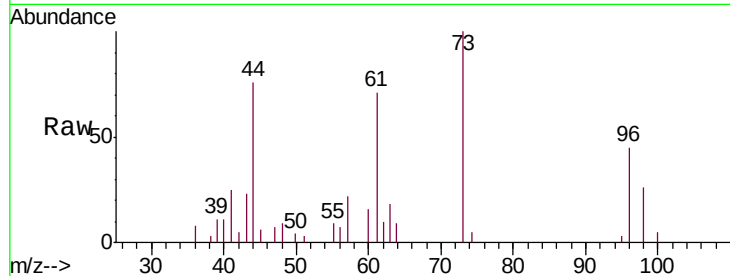
Tgt Ion: 96 Resp: 3120

Ion Ratio Lower Upper

96 100

61 157.8 122.2 227.0

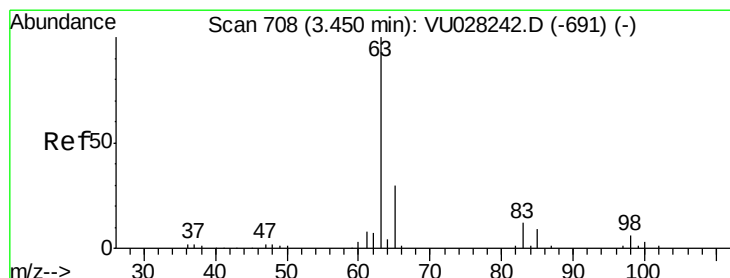
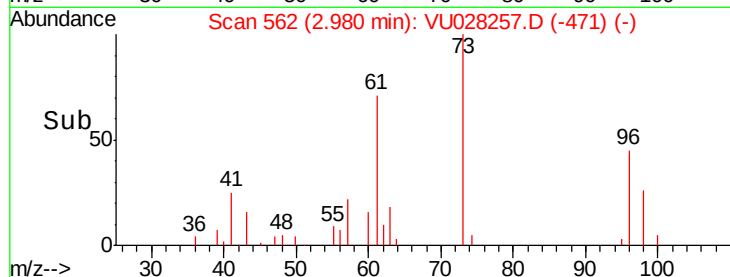
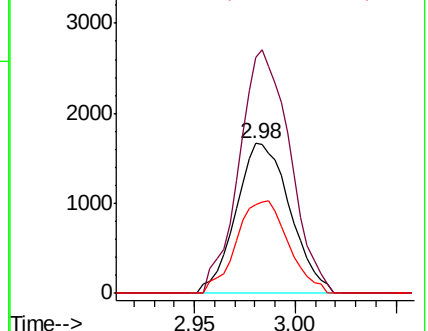
98 58.9 44.9 83.5



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: 0.108 ug/L

RT: 3.44 min Scan# 706

Delta R.T. -0.01 min

Lab File: VU028257.D

Acq: 19 Nov 2018 16:27

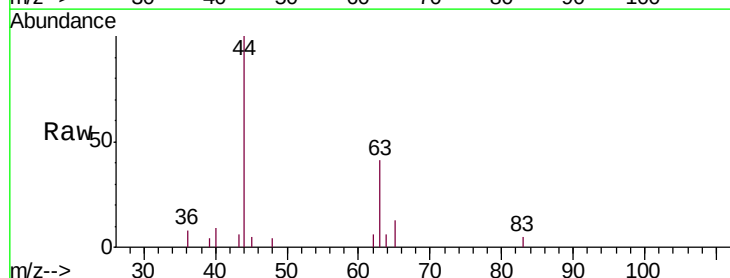
Tgt Ion: 63 Resp: 2135

Ion Ratio Lower Upper

63 100

65 32.5 21.2 39.4

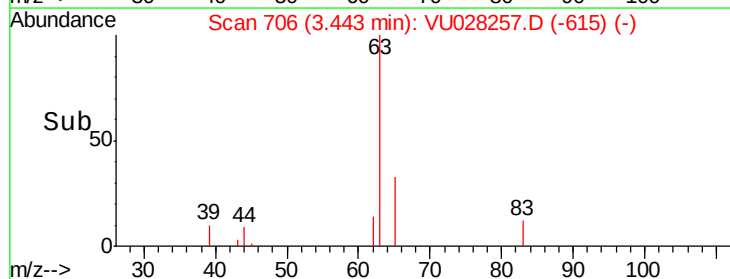
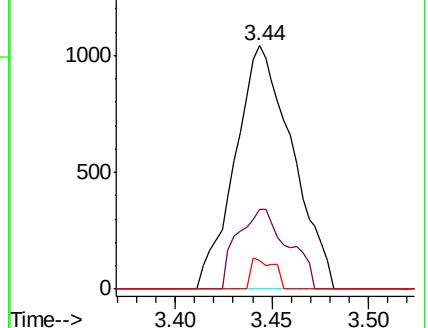
83 12.0 8.8 16.4

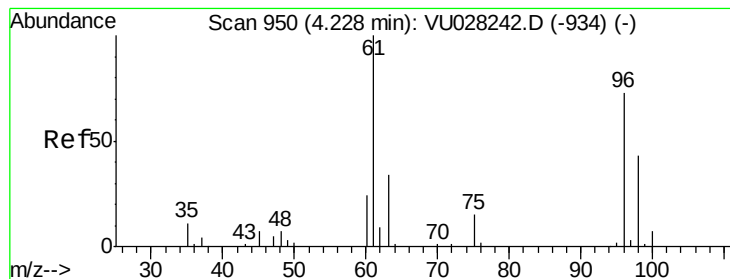


Abundance Ion 63.10 (62.80 to 63.80): VU0

Ion 65.10 (64.80 to 65.80): VU0

Ion 83.05 (82.75 to 83.75): VU0





#22

cis-1,2-Dichloroethene

Concen: 7.476 ug/L

RT: 4.23 min Scan# 950

Delta R.T. 0.00 min

Lab File: VU028257.D

Acq: 19 Nov 2018 16:27

Instrument :

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ClientSampleId :

H0FG7

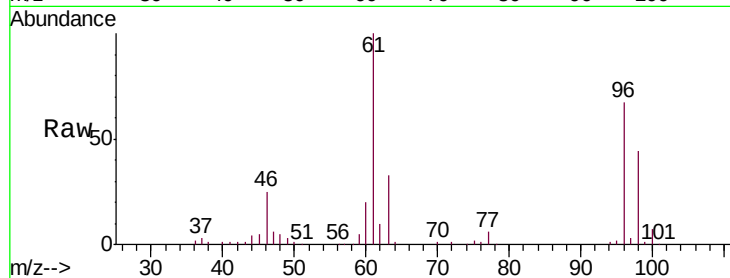
Tgt Ion: 96 Resp: 75513

Ion Ratio Lower Upper

96 100

61 149.8 108.0 200.6

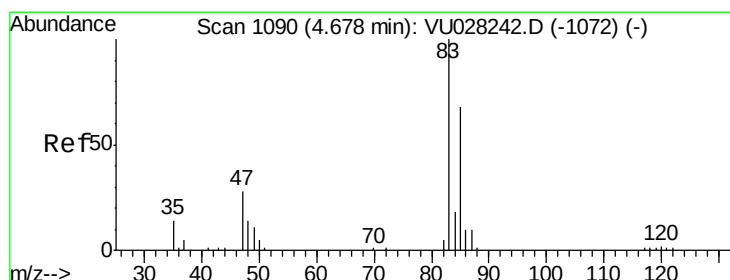
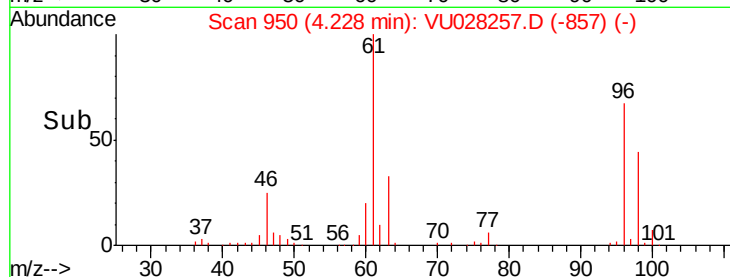
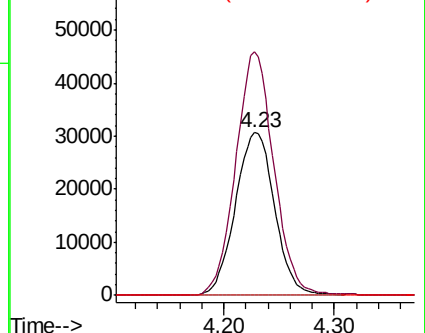
68 0.0 0.0 0.0



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



#25

Chloroform

Concen: 0.273 ug/L

RT: 4.67 min Scan# 1089

Delta R.T. -0.00 min

Lab File: VU028257.D

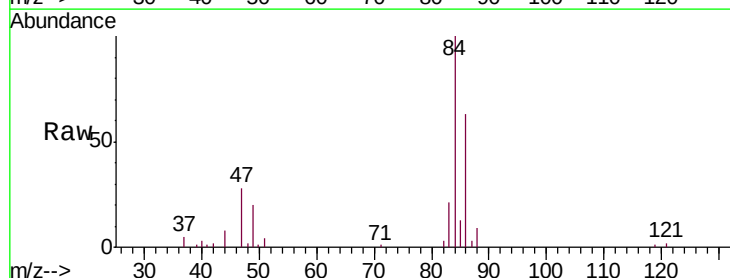
Acq: 19 Nov 2018 16:27

Tgt Ion: 83 Resp: 5863

Ion Ratio Lower Upper

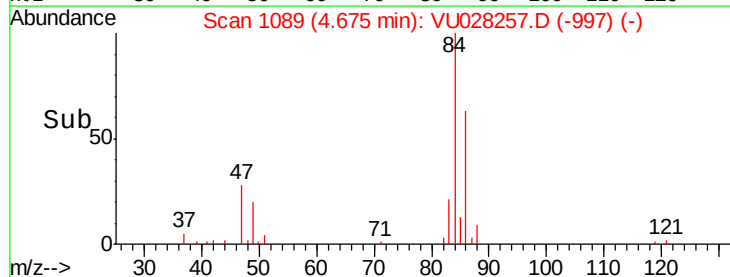
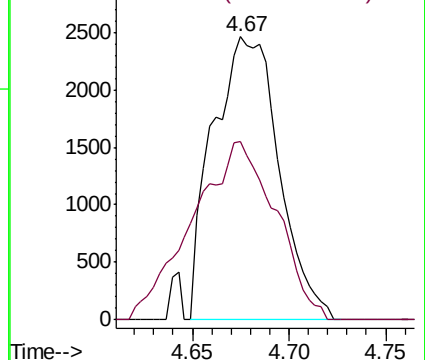
83 100

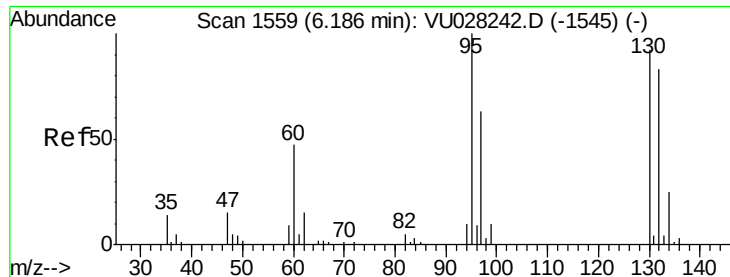
85 63.0 44.6 82.8



Abundance Ion 83.05 (82.75 to 83.75): VU0

Ion 85.00 (84.70 to 85.70): VU0





#34

Trichloroethene

Concen: 7.567 ug/L

RT: 6.19 min Scan# 1559

Delta R.T. 0.00 min

Lab File: VU028257.D

Acq: 19 Nov 2018 16:27

Instrument :

MSVOA_U

ClientSampleId :

H0FG7

Tgt Ion: 95 Resp: 76354

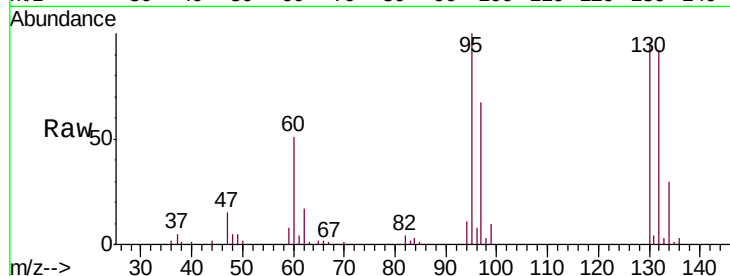
Ion Ratio Lower Upper

95 100

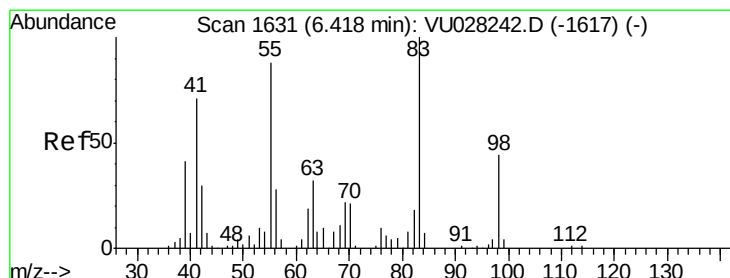
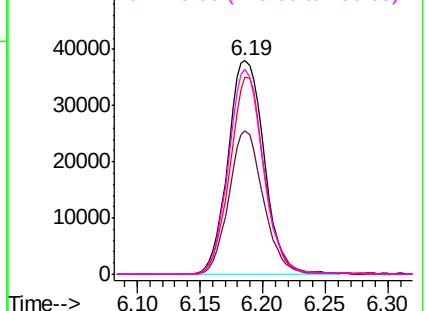
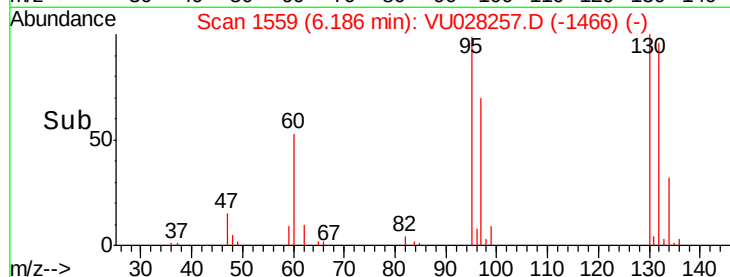
97 67.4 46.5 86.3

132 92.1 58.9 109.3

130 95.7 61.3 113.9



Abundance Ion 95.00 (94.70 to 95.70): VU028257.D (-1466) (-)



#35

Methylcyclohexane

Concen: 0.794 ug/L

RT: 6.33 min Scan# 1604

Delta R.T. -0.09 min

Lab File: VU028257.D

Acq: 19 Nov 2018 16:27

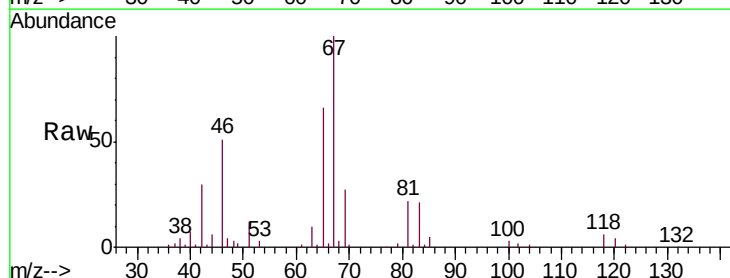
Tgt Ion: 83 Resp: 12622

Ion Ratio Lower Upper

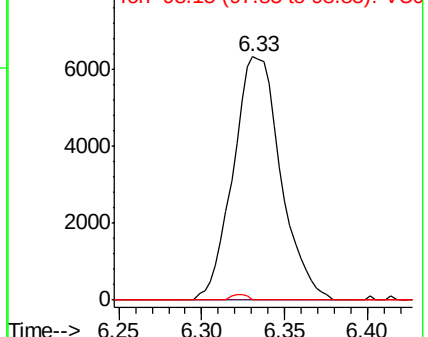
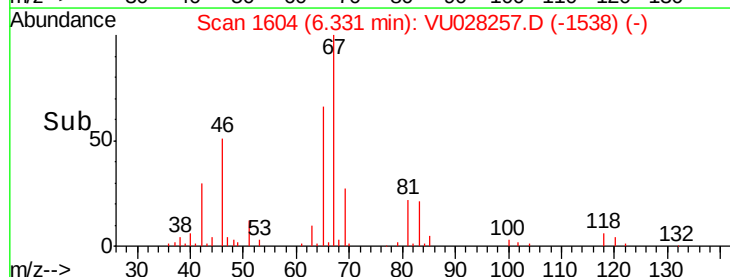
83 100

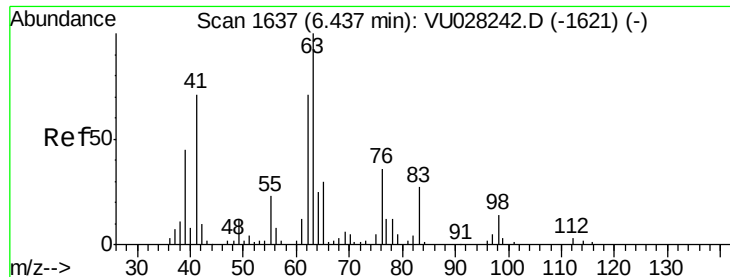
55 0.0 73.2 109.8#

98 0.8 33.4 50.2#



Abundance Ion 83.15 (82.85 to 83.85): VU028257.D (-1538) (-)





#37

1,2-Dichloropropane

Concen: 0.510 ug/L

RT: 6.33 min Scan# 1604

Delta R.T. -0.11 min

Lab File: VU028257.D

Acq: 19 Nov 2018 16:27

Instrument :

MSVOA_U

ClientSampled :

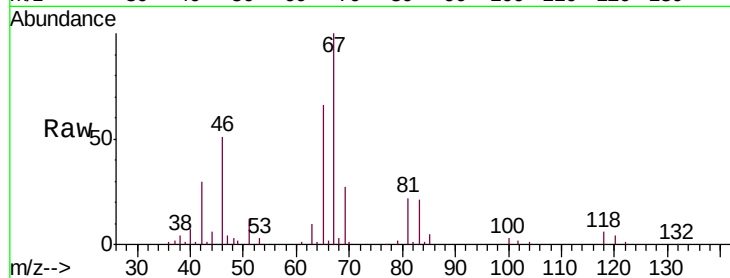
H0FG7

Tgt Ion: 63 Resp: 6001

Ion Ratio Lower Upper

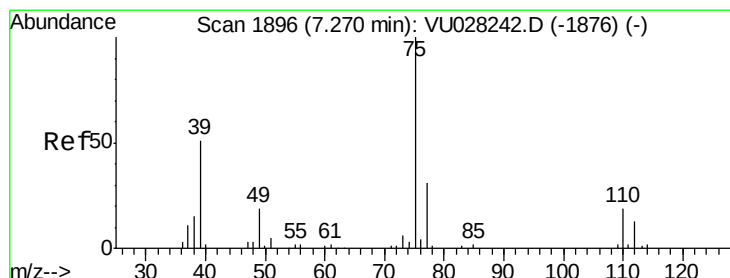
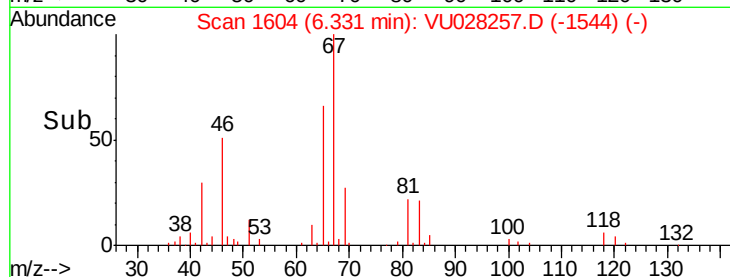
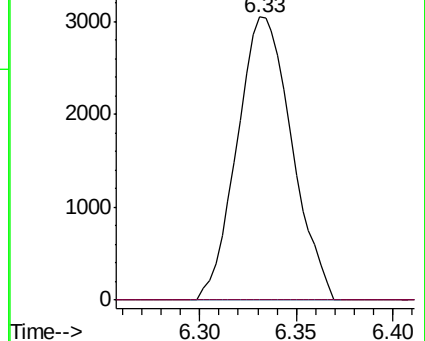
63 100

112 0.0 2.2 3.2#



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: 0.070 ug/L

RT: 7.23 min Scan# 1885

Delta R.T. -0.04 min

Lab File: VU028257.D

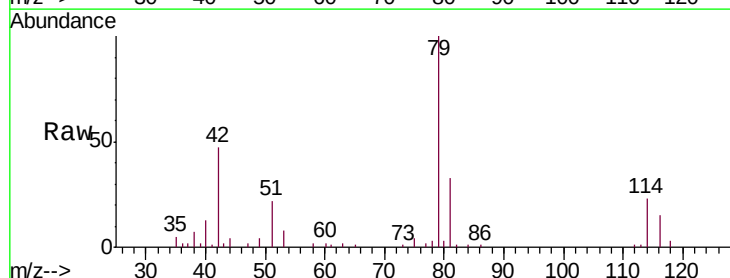
Acq: 19 Nov 2018 16:27

Tgt Ion: 75 Resp: 1045

Ion Ratio Lower Upper

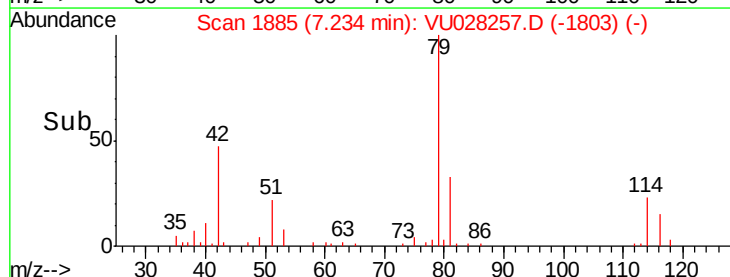
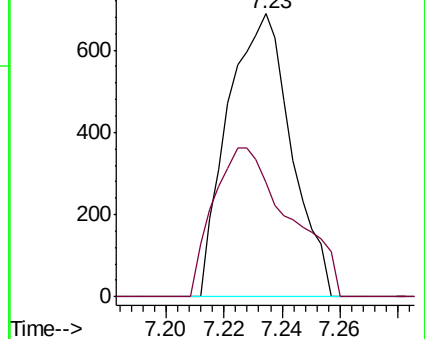
75 100

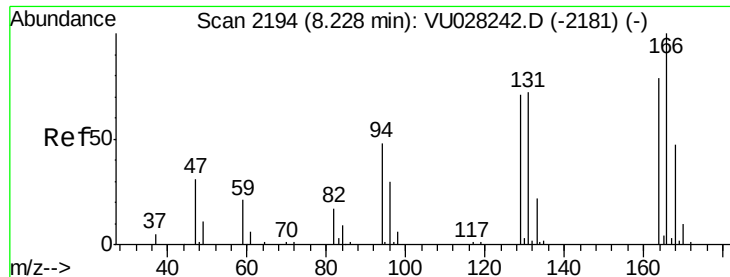
77 40.4 21.7 40.3#



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0

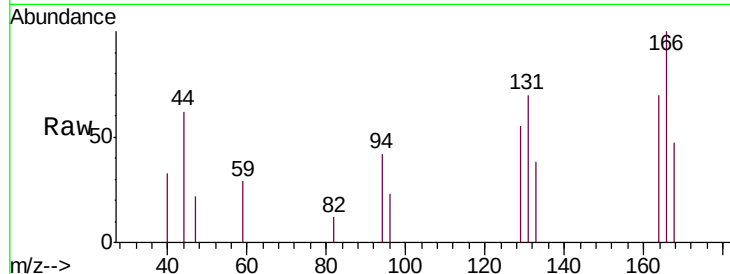




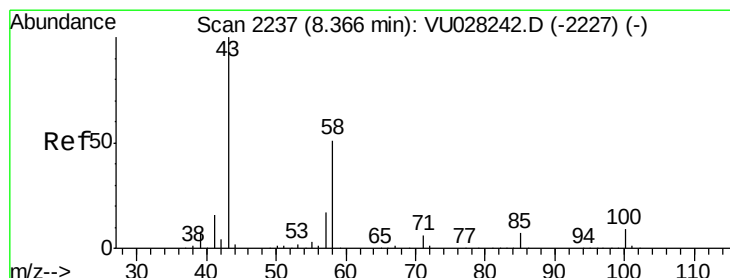
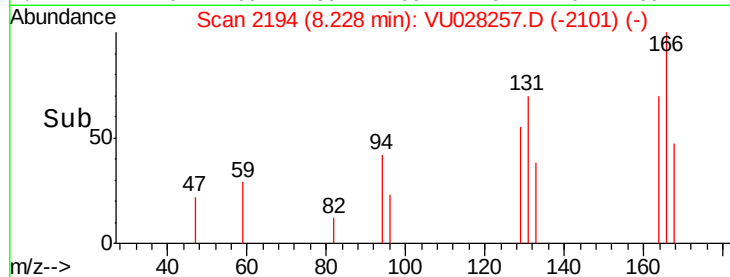
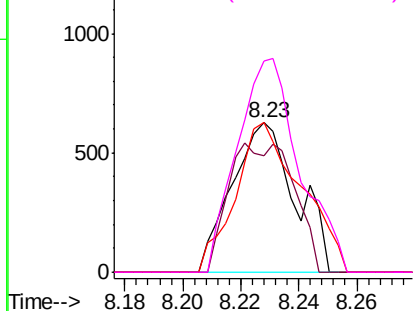
#47
Tetrachloroethene
Concen: 0.136 ug/L
RT: 8.23 min Scan# 2194
Delta R.T. 0.00 min
Lab File: VU028257.D
Acq: 19 Nov 2018 16:27

Instrument :
MSVOA_U
ClientSampleId :
H0FG7

Tgt Ion: 164 Resp: 955
Ion Ratio Lower Upper
164 100
129 78.4 67.6 125.6
131 100.0 66.3 123.1
166 141.9 89.2 165.6

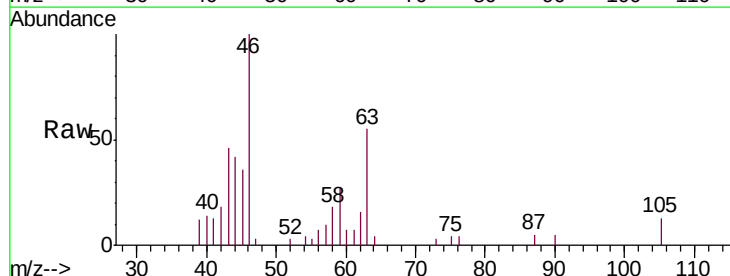


Abundance Ion 163.90 (163.60 to 164.60): V
Ion 128.95 (128.65 to 129.65): V
Ion 130.95 (130.65 to 131.65): V
Ion 165.90 (165.60 to 166.60): V

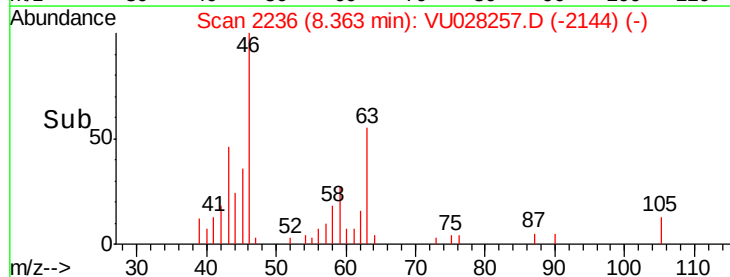
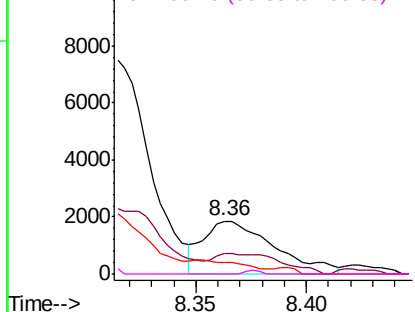


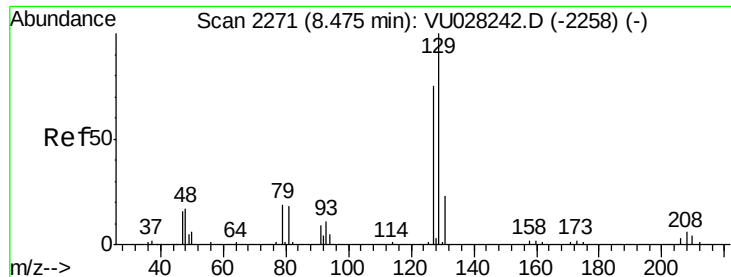
#48
2-Hexanone
Concen: 0.690 ug/L
RT: 8.36 min Scan# 2236
Delta R.T. -0.00 min
Lab File: VU028257.D
Acq: 19 Nov 2018 16:27

Tgt Ion: 43 Resp: 4137
Ion Ratio Lower Upper
43 100
58 37.3 41.1 61.7#
57 3.7 13.8 20.8#
100 1.6 6.5 9.7#



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





#49

Dibromochloromethane

Concen: 0.118 ug/L

RT: 8.22 min Scan# 2192

Delta R.T. -0.25 min

Lab File: VU028257.D

Acq: 19 Nov 2018 16:27

Instrument :

MSVOA_U

ClientSampleId :

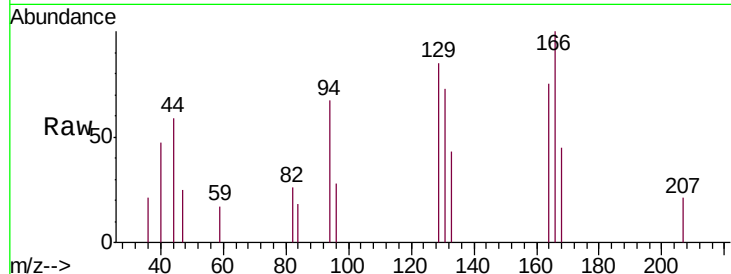
H0FG7

Tgt Ion:129 Resp: 846

Ion Ratio Lower Upper

129 100

127 0.0 54.7 101.5#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

8.22

600

500

400

300

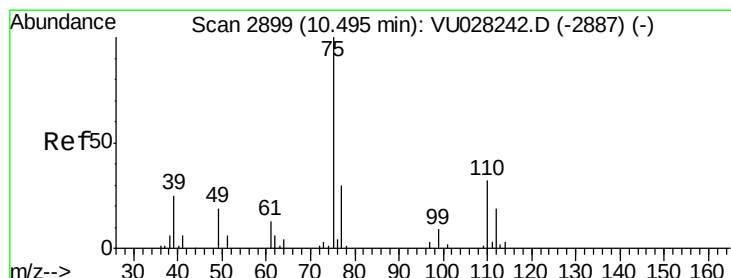
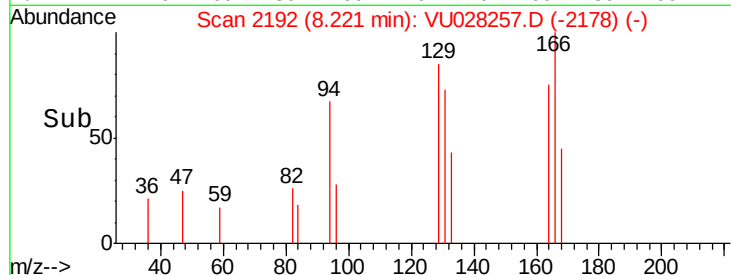
200

100

0

8.20 8.22 8.24 8.26

Time-->



#59

1,2,3-Trichloropropane

Concen: 1.147 ug/L

RT: 11.48 min Scan# 3207

Delta R.T. 0.99 min

Lab File: VU028257.D

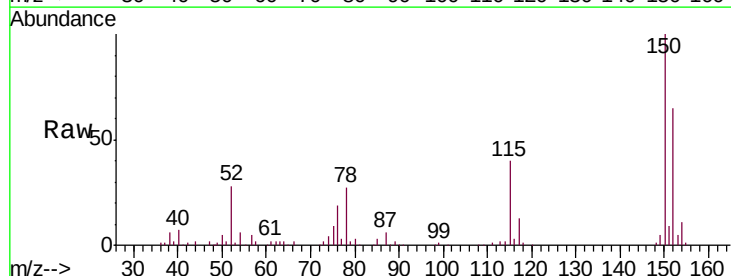
Acq: 19 Nov 2018 16:27

Tgt Ion: 75 Resp: 7792

Ion Ratio Lower Upper

75 100

77 33.8 25.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

11.48

5000

4000

3000

2000

1000

0

11.45 11.50 11.55

Time-->

