

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU081318\
 Data File : VU026075.D
 Acq On : 13 Aug 2018 18:15
 Operator : MD/SY
 Sample : J4401-04
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 A4ZE2

Quant Time: Aug 14 02:34:11 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM080918WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Aug 14 02:18:47 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	276131	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	264500	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	134445	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	78489	38.89	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	77.78%
7) Chloroethane-d5	1.68	69	67923	42.45	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	84.90%
11) 1,1-Dichloroethene-d2	2.27	63	127479	33.24	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	66.48%
21) 2-Butanone-d5	4.18	46	140205	83.34	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	83.34%
24) Chloroform-d	4.65	84	185767	43.40	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	86.80%
26) 1,2-Dichloroethane-d4	5.31	65	127236	44.01	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	88.02%
32) Benzene-d6	5.35	84	355182	43.24	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	86.48%
36) 1,2-Dichloropropane-d6	6.33	67	114727	43.17	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	86.34%
41) Toluene-d8	7.57	98	320907	40.84	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	81.68%
43) trans-1,3-Dichloropropene-	7.85	79	56972	42.55	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	85.10%
47) 2-Hexanone-d5	8.31	63	97591	80.85	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	80.85%
57) 1,1,2,2-Tetrachloroethane-	10.44	84	164775	42.40	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	84.80%
64) 1,2-Dichlorobenzene-d4	11.86	152	146270	44.13	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	88.26%

Target Compounds

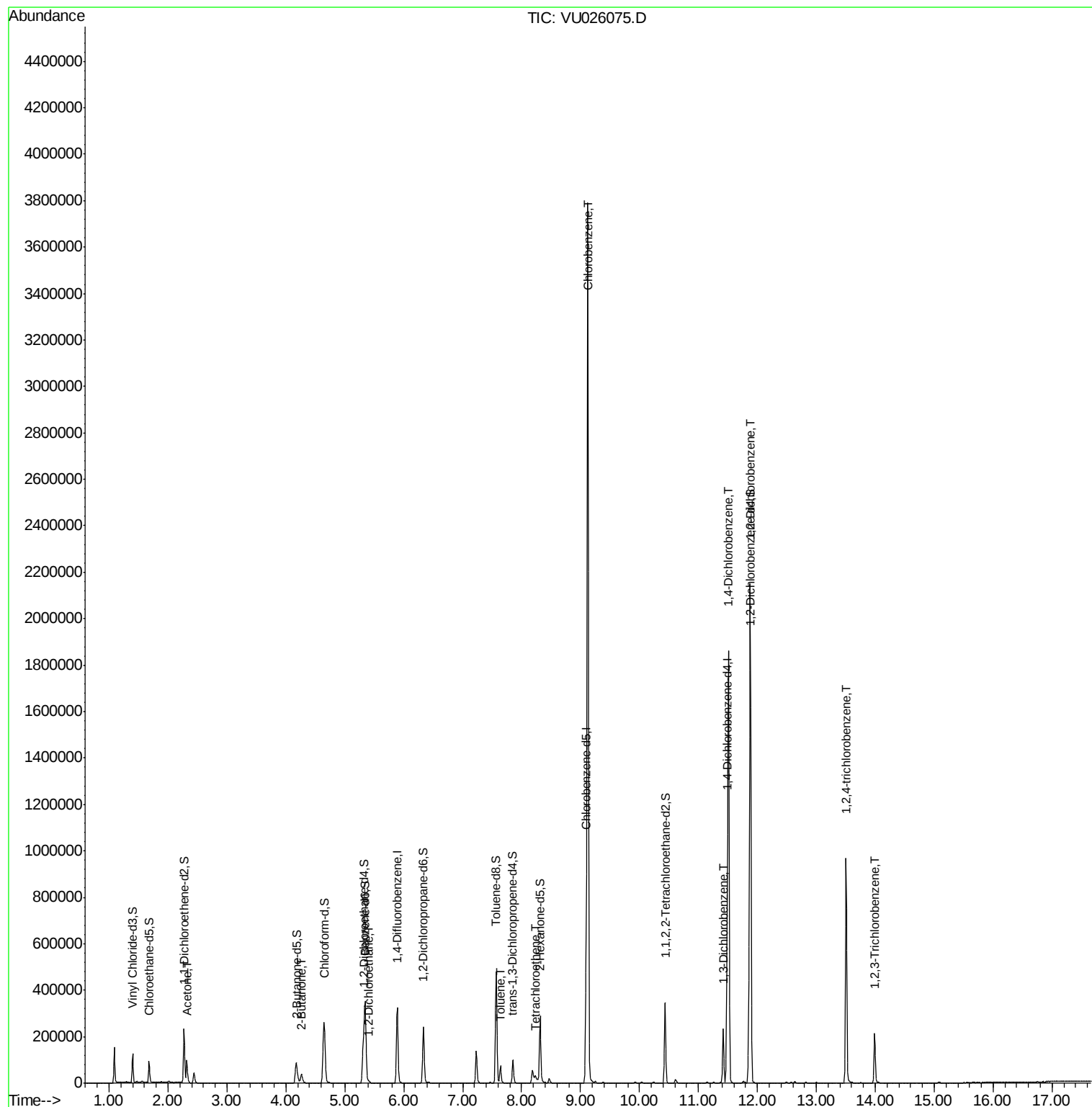
						Ovalue
13) Acetone	2.32	43	96435	92.28	ug/L	99
22) 2-Butanone	4.27	43	56865	37.61	ug/L	100
27) 1,2-Dichloroethane	5.41	62	3916	1.32	ug/L	98
42) Toluene	7.64	91	53465	6.69	ug/L	98
46) Tetrachloroethene	8.23	164	4386	2.62	ug/L	87
51) Chlorobenzene	9.12	112	2039589	378.29	ug/L	99
62) 1,3-Dichlorobenzene	11.42	146	95423	22.80	ug/L	96
63) 1,4-Dichlorobenzene	11.51	146	727801	165.87	ug/L	99
65) 1,2-Dichlorobenzene	11.88	146	832433	186.85	ug/L	98
68) 1,2,4-trichlorobenzene	13.51	180	299105	113.07	ug/L	99
70) 1,2,3-Trichlorobenzene	13.99	180	68279	24.01	ug/L	99

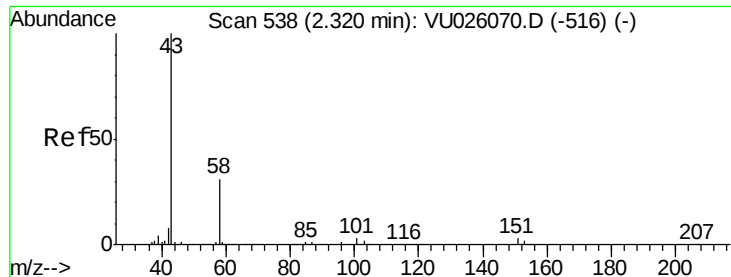
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#13

Acetone

Concen: 92.28 ug/L

RT: 2.32 min Scan# 538

Delta R.T. -0.00 min

Lab File: VU026075.D

Acq: 13 Aug 2018 18:15

Instrument :

MSVOA_U

ClientSampleId :

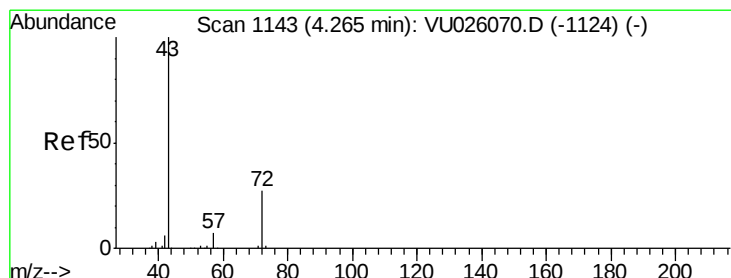
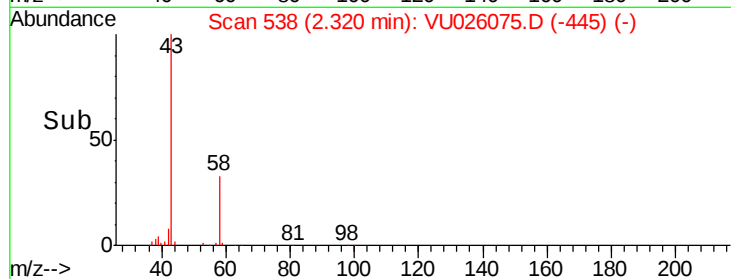
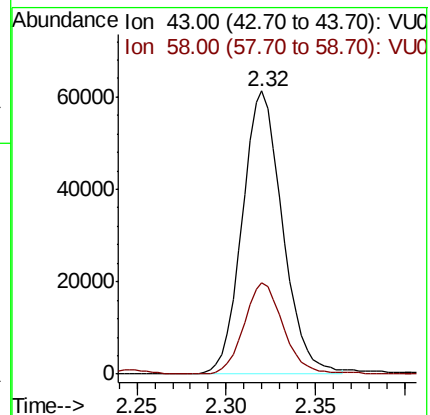
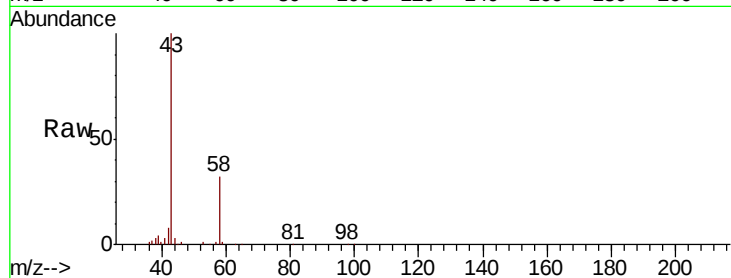
A4ZE2

Tot Ion: 43 Resp: 96435

Ion Ratio Lower Upper

43 100

58 31.3 0.0 61.8



#22

2-Butanone

Concen: 37.61 ug/L

RT: 4.27 min Scan# 1143

Delta R.T. -0.00 min

Lab File: VU026075.D

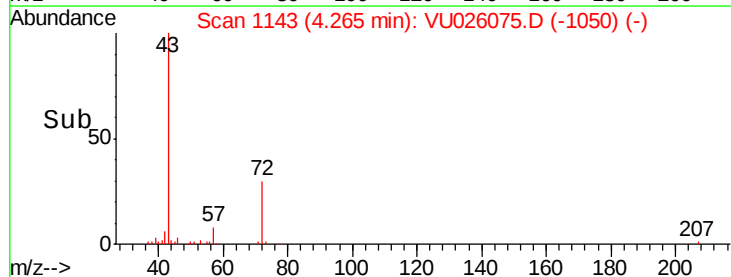
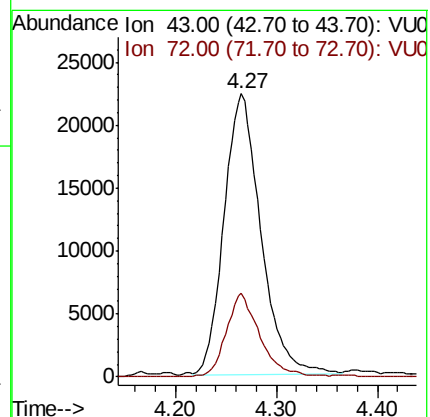
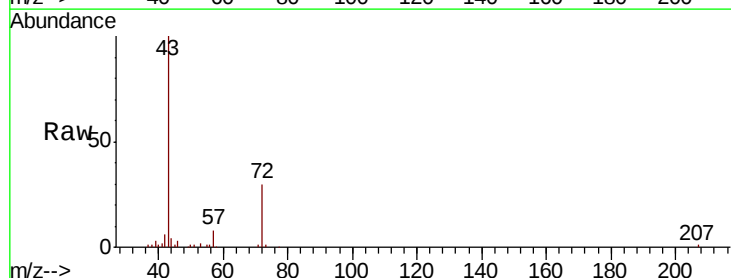
Acq: 13 Aug 2018 18:15

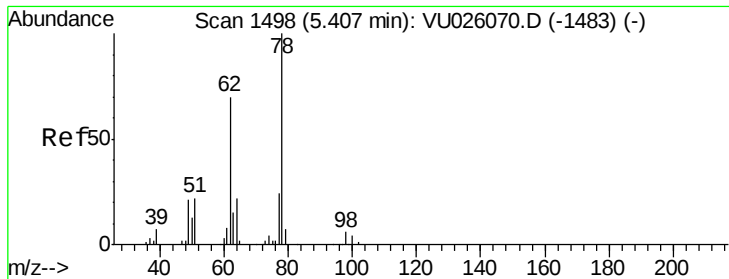
Tgt Ion: 43 Resp: 56865

Ion Ratio Lower Upper

43 100

72 27.0 13.5 40.5





#27

1,2-Dichloroethane

Concen: 1.32 ug/L

RT: 5.41 min Scan# 1499

Delta R.T. 0.00 min

Lab File: VU026075.D

Acq: 13 Aug 2018 18:15

Instrument :

MSVOA_U

ClientSampleId :

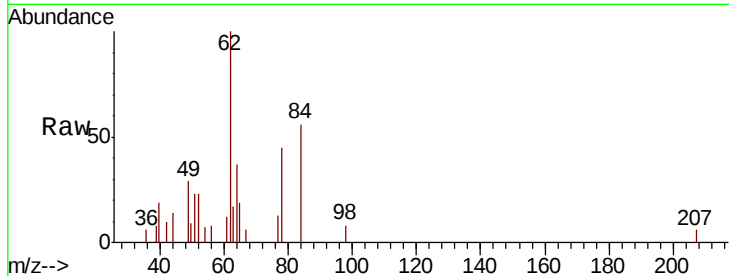
A4ZE2

Tot Ion: 62 Resp: 3916

Ion Ratio Lower Upper

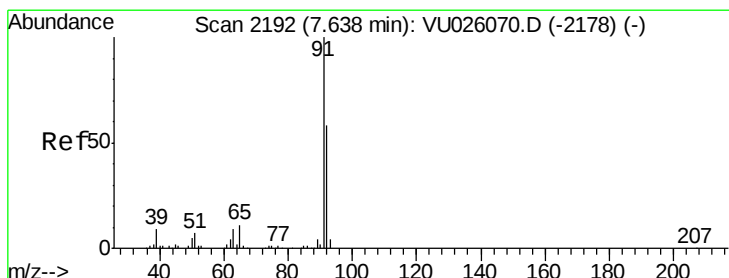
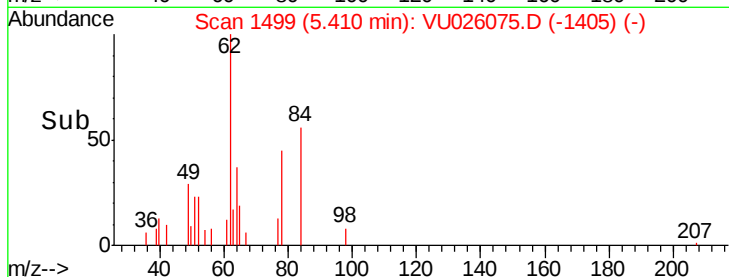
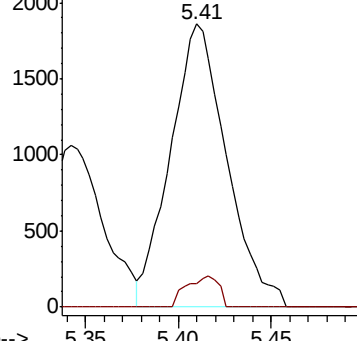
62 100

98 8.1 7.0 10.4



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 98.00 (97.70 to 98.70): VU0



#42

Toluene

Concen: 6.69 ug/L

RT: 7.64 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VU026075.D

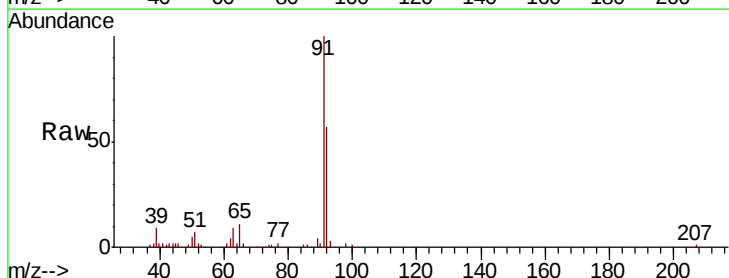
Acq: 13 Aug 2018 18:15

Tgt Ion: 91 Resp: 53465

Ion Ratio Lower Upper

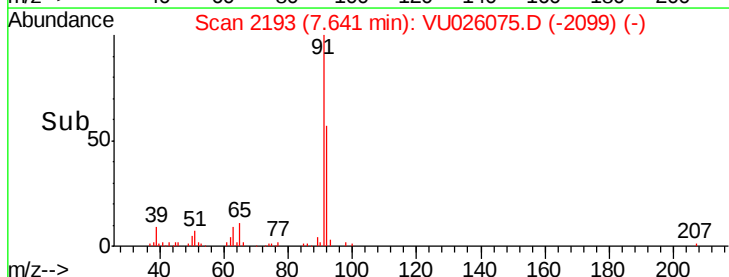
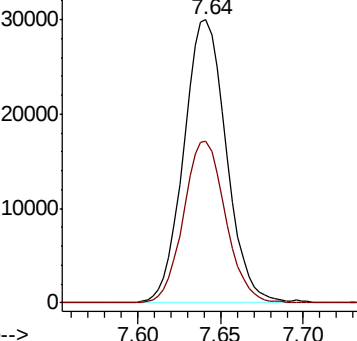
91 100

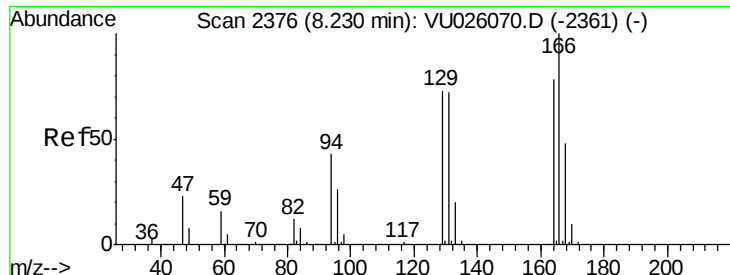
92 57.1 41.0 76.2



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 92.00 (91.70 to 92.70): VU0

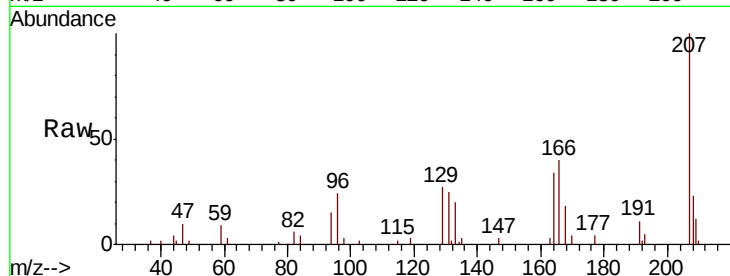




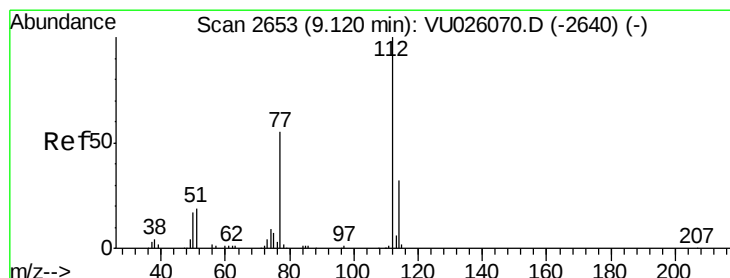
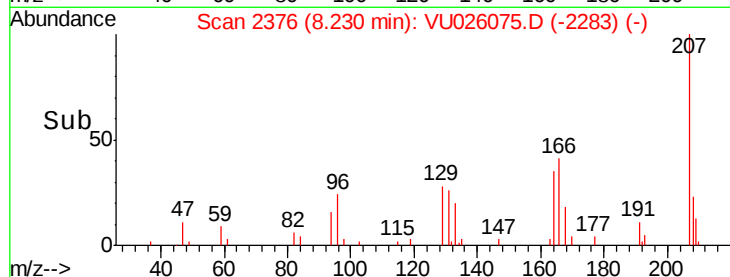
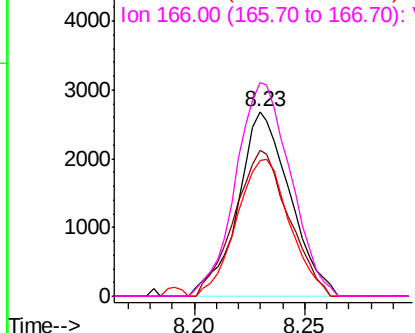
#46
Tetrachloroethene
Concen: 2.62 ug/L
RT: 8.23 min Scan# 2376
Delta R.T. -0.00 min
Lab File: VU026075.D
Acq: 13 Aug 2018 18:15

Instrument :
MSVOA_U
ClientSampleId :
A4ZE2

Tot Ion:164 Resp: 4386
Ion Ratio Lower Upper
164 100
129 79.1 64.8 120.3
131 73.5 62.8 116.6
166 115.8 89.0 165.4

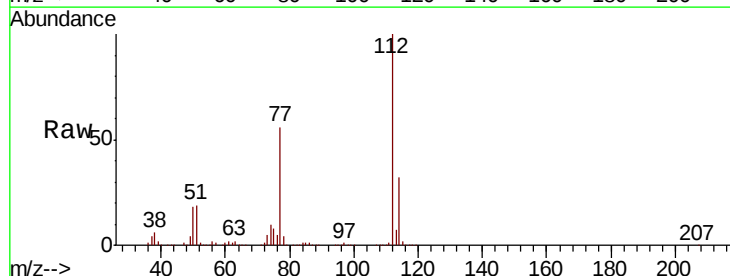


Abundance Ion 164.00 (163.70 to 164.70): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V
Ion 166.00 (165.70 to 166.70): V

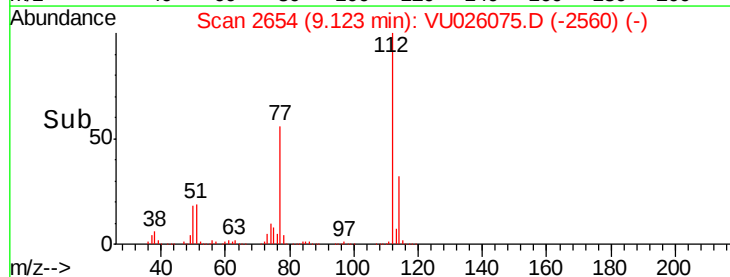
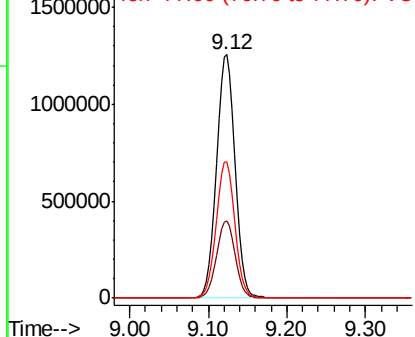


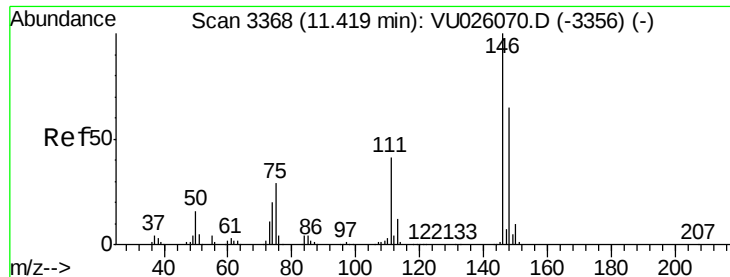
#51
Chlorobenzene
Concen: 378.29 ug/L
RT: 9.12 min Scan# 2654
Delta R.T. 0.00 min
Lab File: VU026075.D
Acq: 13 Aug 2018 18:15

Tgt Ion:112 Resp: 2039589
Ion Ratio Lower Upper
112 100
114 31.8 22.7 42.3
77 56.0 45.2 67.8



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 114.00 (113.70 to 114.70): V
Ion 77.00 (76.70 to 77.70): V





#62

1,3-Dichlorobenzene

Concen: 22.80 ug/L

RT: 11.42 min Scan# 3368

Delta R.T. -0.00 min

Lab File: VU026075.D

Acq: 13 Aug 2018 18:15

Instrument :

MSVOA_U

ClientSampleId :

A4ZE2

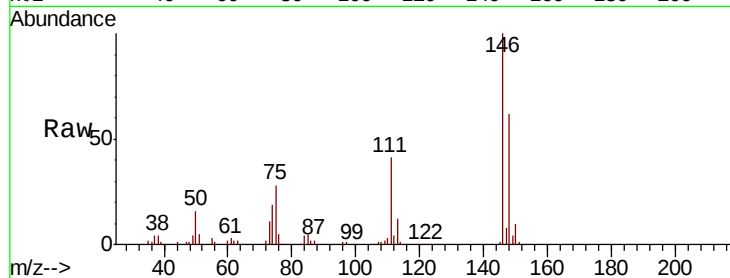
Tot Ion:146 Resp: 95423

Ion Ratio Lower Upper

146 100

111 40.7 27.9 51.9

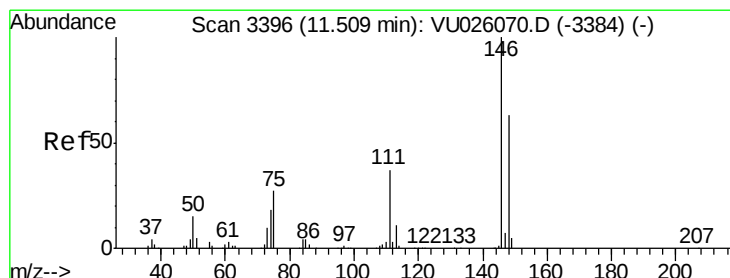
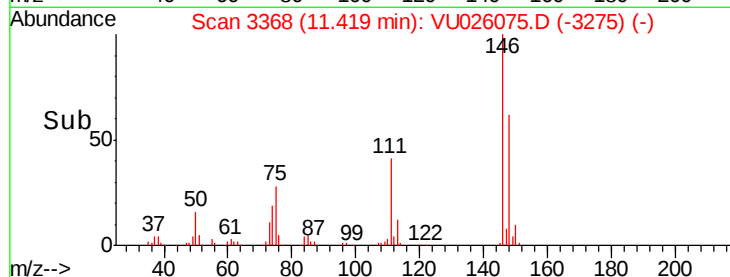
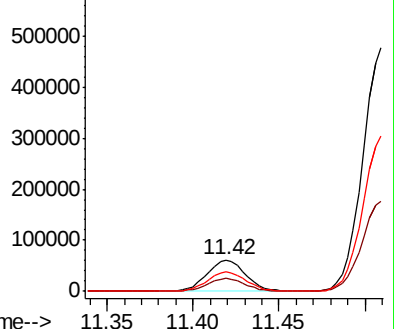
148 61.6 46.0 85.4



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 165.87 ug/L

RT: 11.51 min Scan# 3396

Delta R.T. -0.00 min

Lab File: VU026075.D

Acq: 13 Aug 2018 18:15

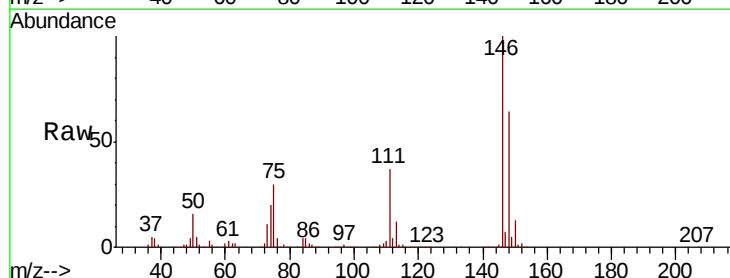
Tgt Ion:146 Resp: 727801

Ion Ratio Lower Upper

146 100

111 37.2 26.4 49.0

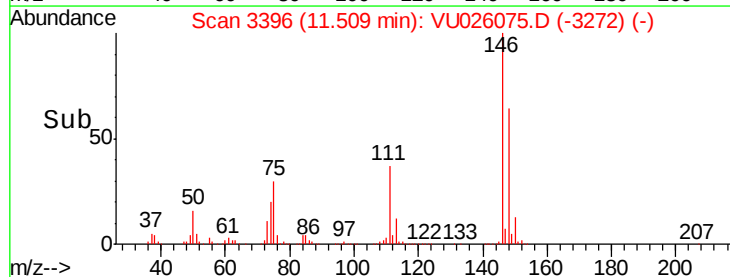
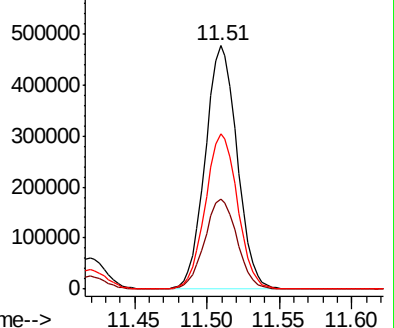
148 64.0 43.8 81.4

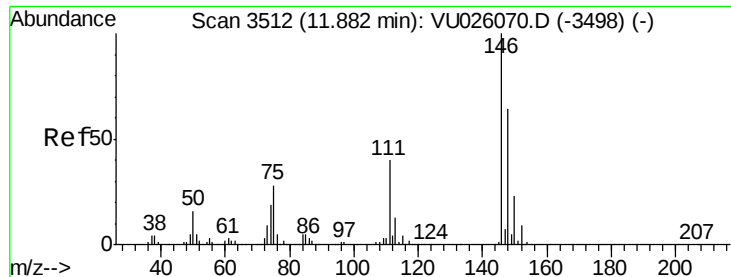


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 186.85 ug/L

RT: 11.88 min Scan# 3512

Delta R.T. -0.00 min

Lab File: VU026075.D

Acq: 13 Aug 2018 18:15

Instrument :

MSVOA_U

ClientSampleId :

A4ZE2

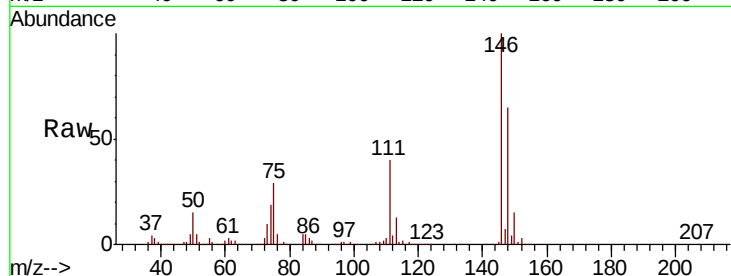
Tot Ion:146 Resp: 832433

Ion Ratio Lower Upper

146 100

111 40.0 32.4 48.6

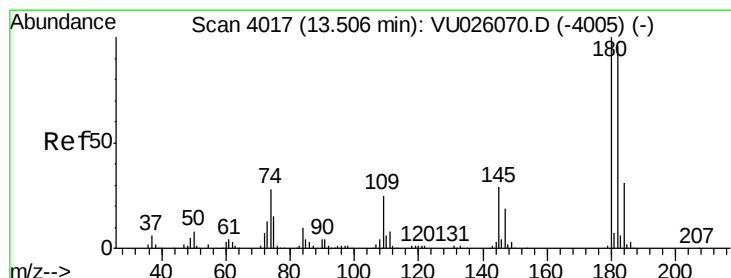
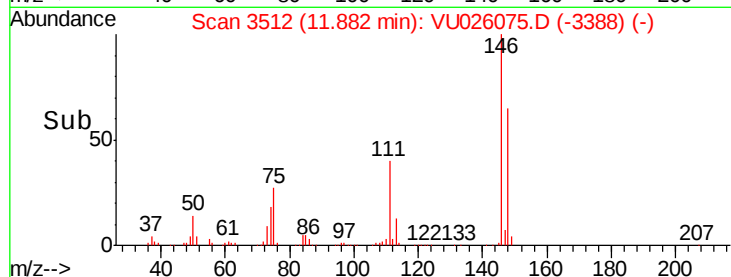
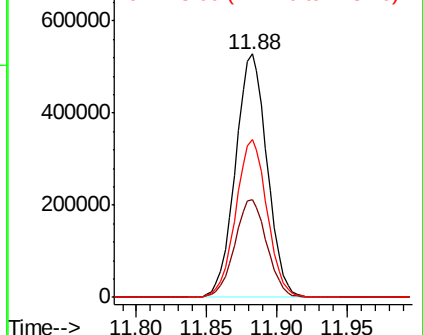
148 64.7 50.1 75.1



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#68

1,2,4-trichlorobenzene

Concen: 113.07 ug/L

RT: 13.51 min Scan# 4017

Delta R.T. -0.00 min

Lab File: VU026075.D

Acq: 13 Aug 2018 18:15

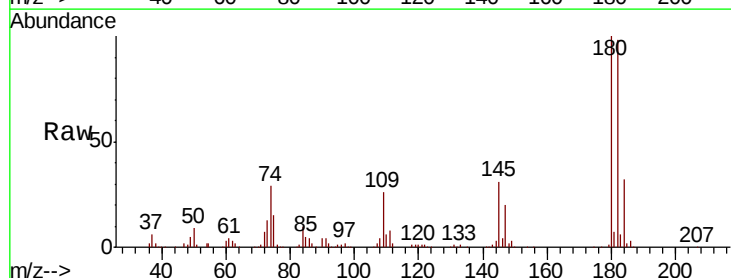
Tgt Ion:180 Resp: 299105

Ion Ratio Lower Upper

180 100

182 97.2 76.5 114.7

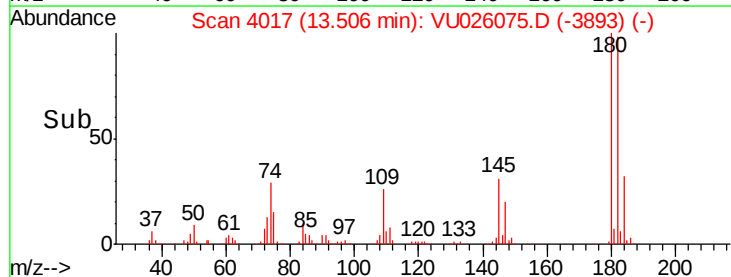
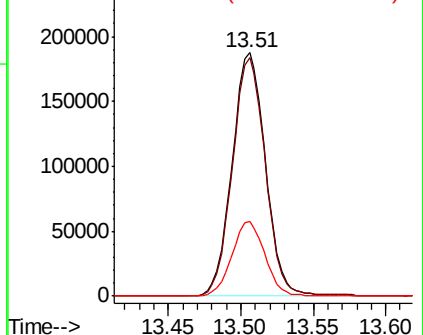
145 30.5 24.2 36.4

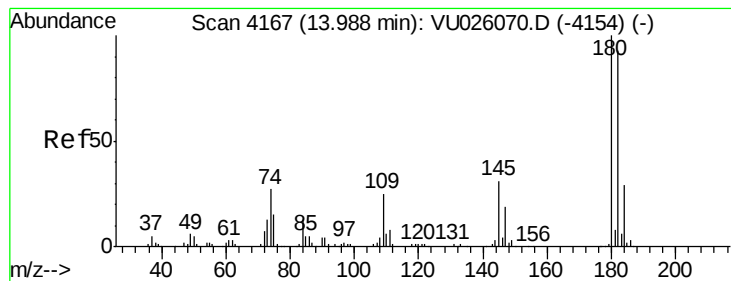


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#70

1,2,3-Trichlorobenzene

Concen: 24.01 ug/L

RT: 13.99 min Scan# 4167

Delta R.T. -0.00 min

Lab File: VU026075.D

Acq: 13 Aug 2018 18:15

Instrument :

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ClientSampleId :

A4ZE2

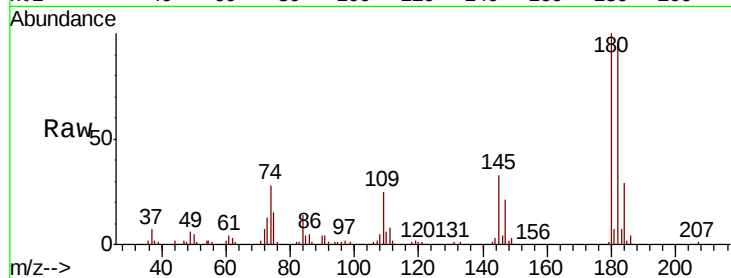
Tot Ion:180 Resp: 68279

Ion Ratio Lower Upper

180 100

182 96.4 76.5 114.7

145 31.9 24.7 37.1



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

