

Data File : VU026932.D
Acq On : 20 Sep 2018 12:43
Operator : MD/SY
Sample : J4893-04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
C08K3

Quant Time: Sep 21 04:25:16 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091718WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Sep 21 04:24:07 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	329903	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	318669	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	185407	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	95603	39.17	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	78.34%
7) Chloroethane-d5	1.68	69	81901	39.21	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	78.42%
11) 1,1-Dichloroethene-d2	2.27	63	136028	29.46	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	58.92%#
21) 2-Butanone-d5	4.18	46	129947	80.24	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	80.24%
24) Chloroform-d	4.65	84	170099	37.58	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	75.16%
26) 1,2-Dichloroethane-d4	5.31	65	107227	37.62	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	75.24%
32) Benzene-d6	5.34	84	348121	38.98	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	77.96%
36) 1,2-Dichloropropane-d6	6.33	67	113038	39.28	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	78.56%
41) Toluene-d8	7.57	98	302172	37.45	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	74.90%#
43) trans-1,3-Dichloropropene-	7.85	79	48023	37.38	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	74.76%
47) 2-Hexanone-d5	8.31	63	91708	81.09	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	81.09%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	148330	36.97	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	73.94%
64) 1,2-Dichlorobenzene-d4	11.86	152	140104	36.32	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	72.64%#

Target Compounds

					Qvalue
9) Trichlorofluoromethane	1.89	101	37043	9.633 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	1346	0.591 ug/L #	18
13) Acetone	2.32	43	2032	1.277 ug/L	87
25) Chloroform	4.68	83	6945	1.509 ug/L	89
27) 1,2-Dichloroethane	5.39	62	2122	0.591 ug/L #	72
31) Carbon tetrachloride	5.14	117	3118	0.918 ug/L	99
33) Benzene	5.39	78	286762	29.025 ug/L	100
39) cis-1,3-Dichloropropene	7.23	75	2735	0.713 ug/L #	59
44) trans-1,3-Dichloropropene	7.85	75	2091	0.583 ug/L	92
51) Chlorobenzene	9.12	112	727463	107.230 ug/L	100
52) Ethylbenzene	9.25	91	6412	0.612 ug/L	91
54) o-xylene	9.78	106	6746	1.720 ug/L	97
62) 1,3-Dichlorobenzene	11.42	146	605654	107.156 ug/L	99
63) 1,4-Dichlorobenzene	11.51	146	9075912	1458.289 ug/L	100
65) 1,2-Dichlorobenzene	11.88	146	2608890	416.866 ug/L	100
67) 1,3,5-Trichlorobenzene	13.50	180	505796	115.643 ug/L	100
68) 1,2,4-trichlorobenzene	13.50	180	505796	134.198 ug/L	100

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092118\
Quantitation Report (Not Reviewed)

Data File : VU026932.D
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Quant Title : VOC Analysis
QLast Update : Fri Sep 21 04:24:07 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
69) Naphthalene	13.75	128	7008	0.631	ug/L	99
70) 1,2,3-Trichlorobenzene	13.99	180	101827	24.533	ug/L	99

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

Data File : VU026932.D

Acq On : 20 Sep 2018 12:43

Operator : MD/SY

Sample : J4893-04

Misc : 5.0mL/MSVOA U/WATER

```
ALS Vial      : 9      Sample Multiplier: 1
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Instrument :
MSVOA_U
ClientSampleId :
C08K3

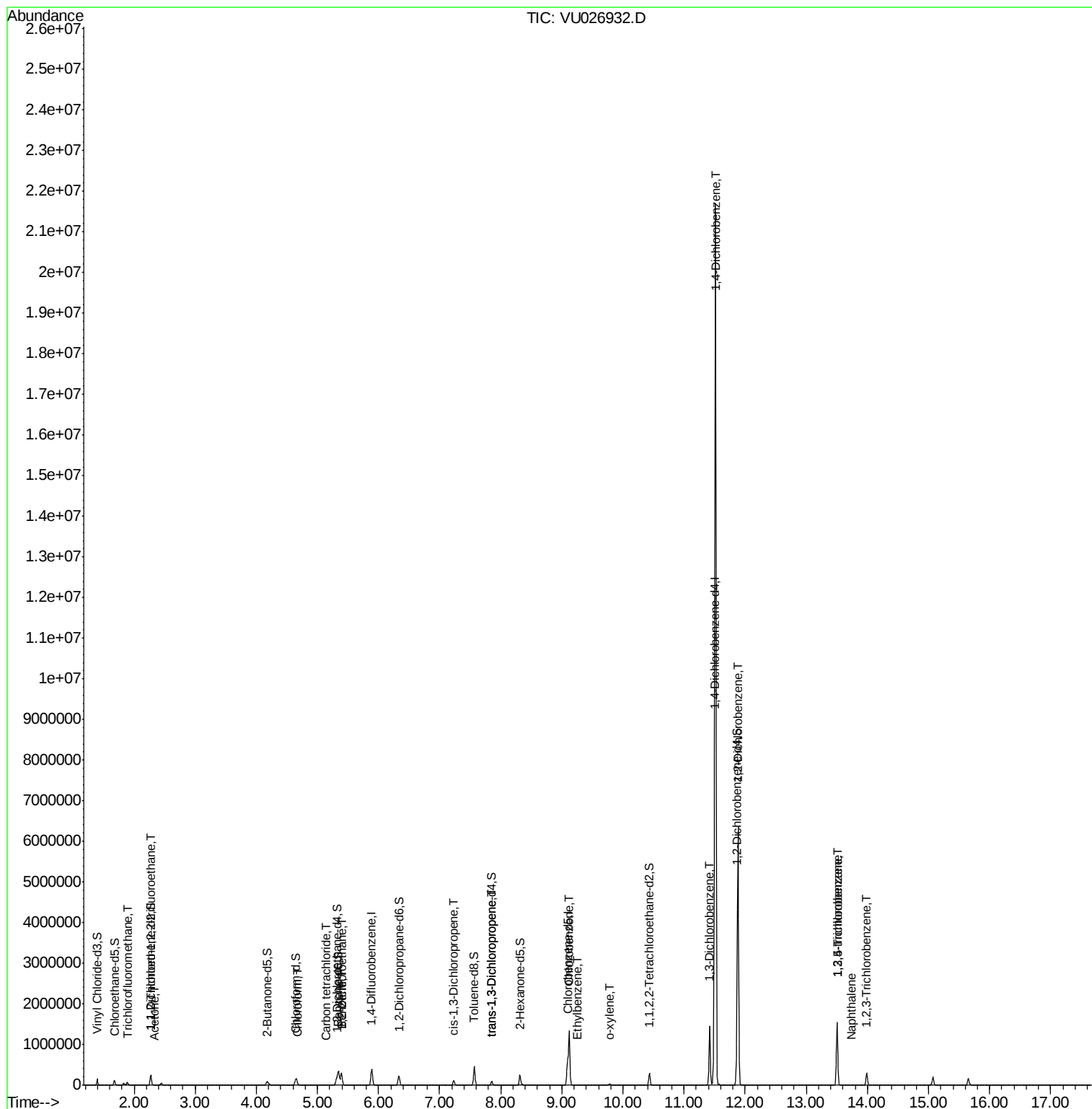
Quant Time: Sep 21 04:25:16 2018

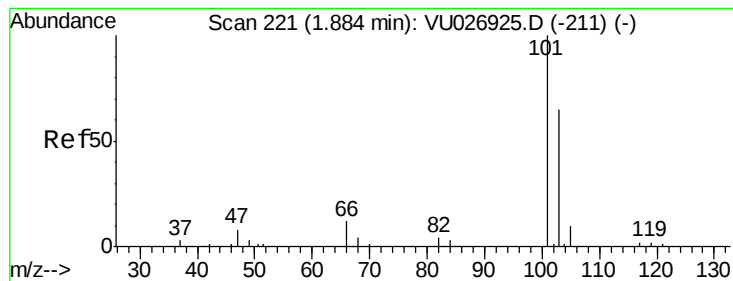
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_U\METHOD\SOMULM091718WMA.M

Quant Title : VOC Analysis

QLast Update : Fri Sep 21 04:24:07 2018

Response via : Initial Calibration





#9

Trichlorofluoromethane

Concen: 9.633 ug/L

RT: 1.89 min Scan# 222

Delta R.T. 0.00 min

Lab File: VU026932.D

Acq: 20 Sep 2018 12:43

Instrument :

MSVOA_U

ClientSampleId :

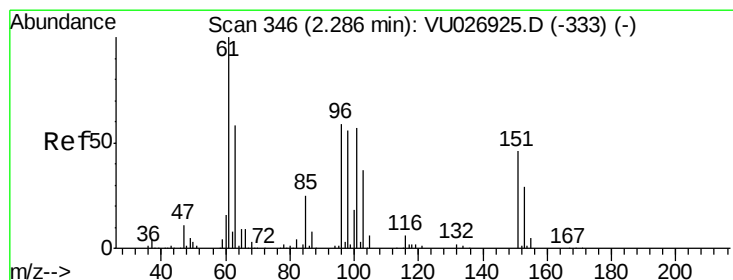
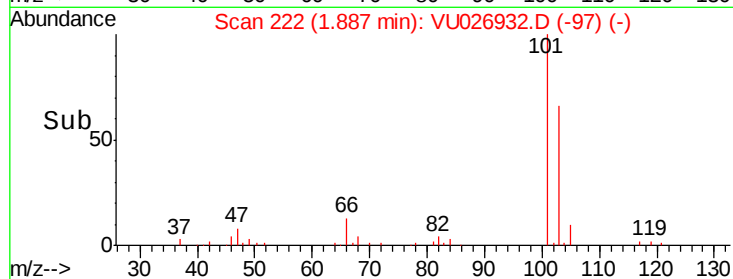
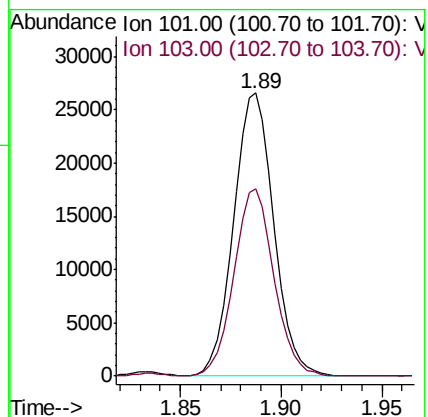
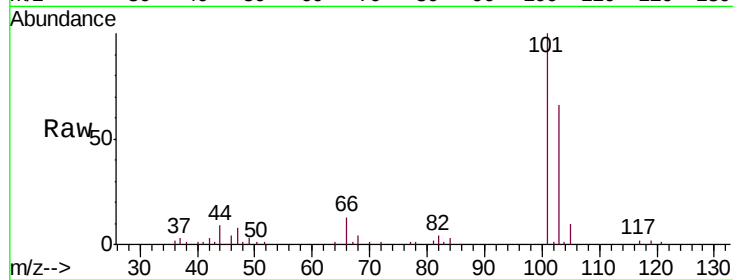
C08K3

Tgt Ion:101 Resp: 37043

Ion Ratio Lower Upper

101 100

103 65.9 51.9 77.9



#10

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

Concen: 0.591 ug/L

RT: 2.27 min Scan# 341

Delta R.T. -0.02 min

Lab File: VU026932.D

Acq: 20 Sep 2018 12:43

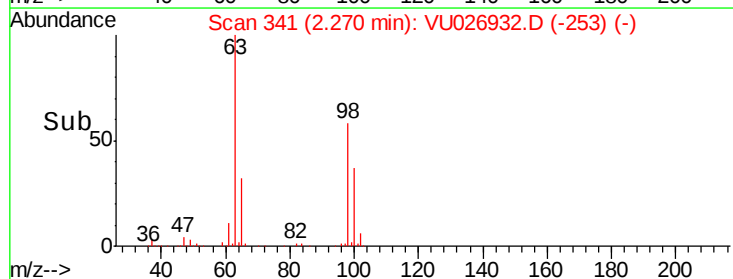
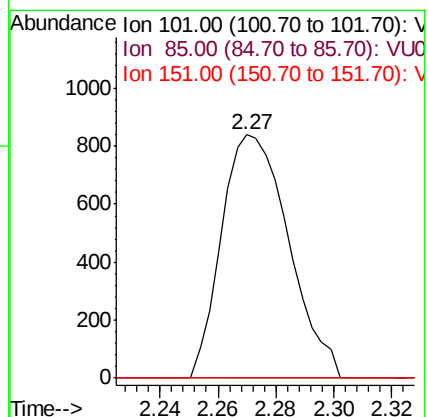
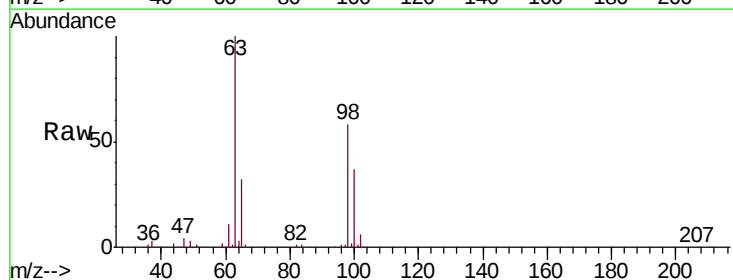
Tgt Ion:101 Resp: 1346

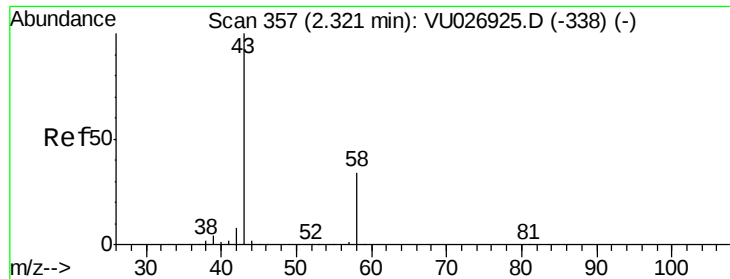
Ion Ratio Lower Upper

101 100

85 0.0 34.6 52.0#

151 0.0 63.0 94.4#





#13

Acetone

Concen: 1.277 ug/L

RT: 2.32 min Scan# 356

Delta R.T. -0.00 min

Lab File: VU026932.D

Acq: 20 Sep 2018 12:43

Instrument :

MSVOA_U

ClientSampleId :

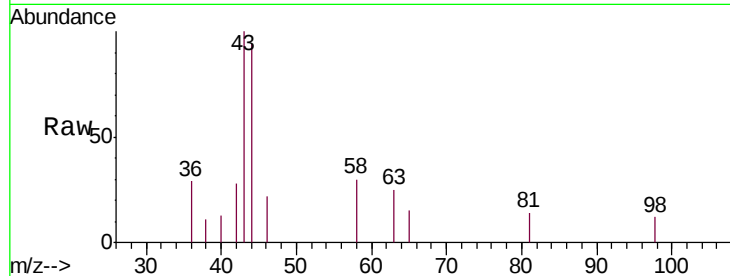
C08K3

Tgt Ion: 43 Resp: 2032

Ion Ratio Lower Upper

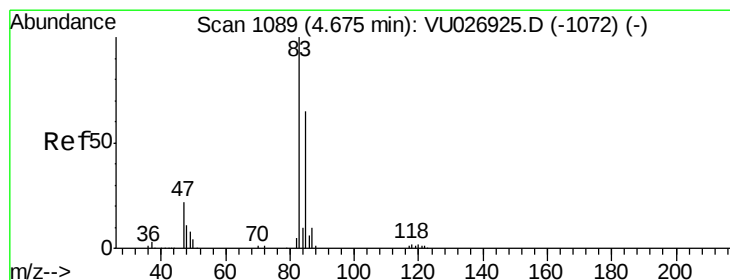
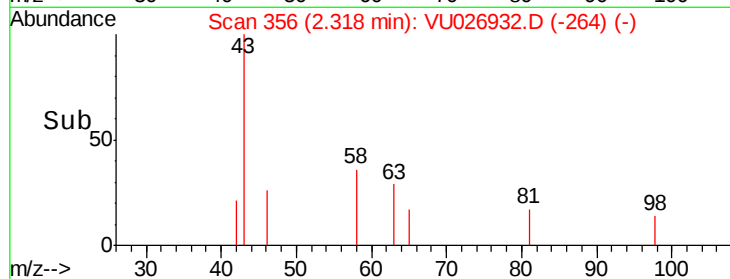
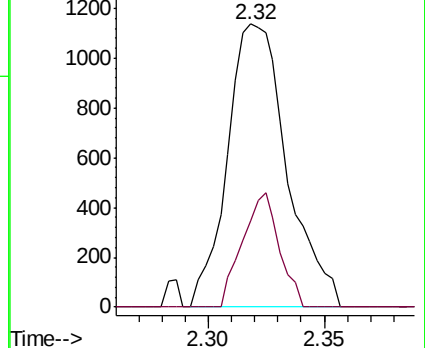
43 100

58 24.9 0.0 64.6



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#25

Chloroform

Concen: 1.509 ug/L

RT: 4.68 min Scan# 1090

Delta R.T. 0.00 min

Lab File: VU026932.D

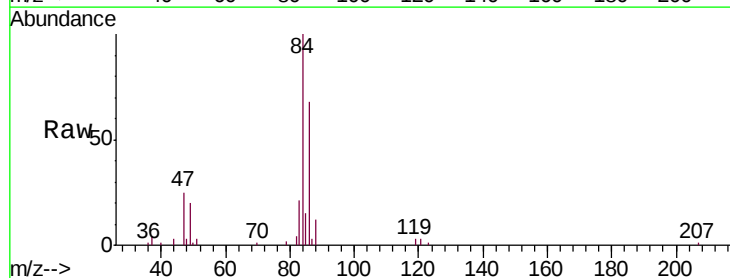
Acq: 20 Sep 2018 12:43

Tgt Ion: 83 Resp: 6945

Ion Ratio Lower Upper

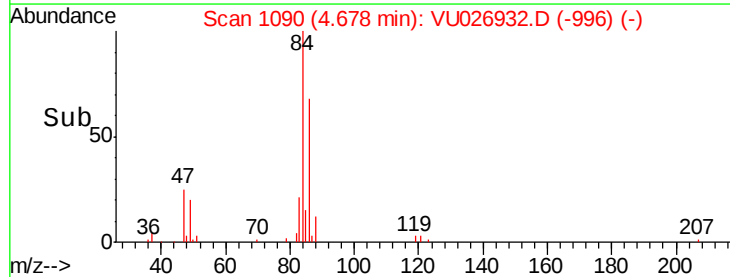
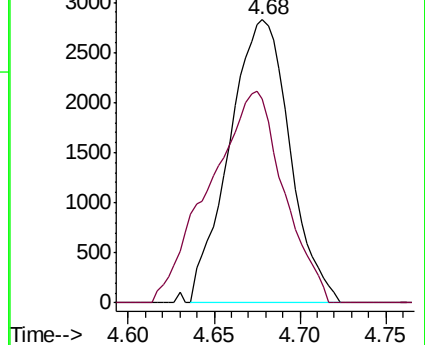
83 100

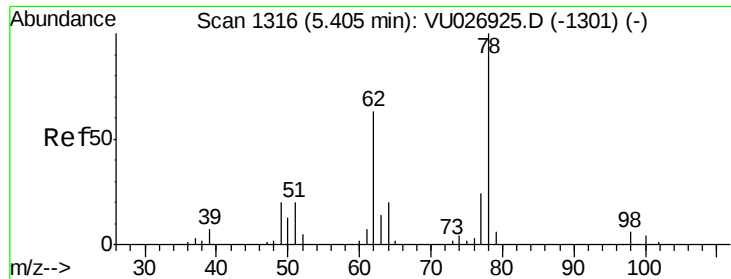
85 72.1 44.4 82.5



Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0





#27

1,2-Dichloroethane

Concen: 0.591 ug/L

RT: 5.39 min Scan# 1312

Delta R.T. -0.01 min

Lab File: VU026932.D

Acq: 20 Sep 2018 12:43

Instrument :

MSVOA_U

ClientSampleId :

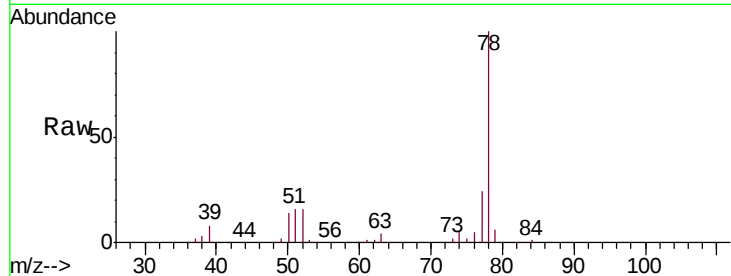
C08K3

Tgt Ion: 62 Resp: 2122

Ion Ratio Lower Upper

62 100

98 0.0 8.2 12.4#



Abundance Ion 62.00 (61.70 to 62.70): VU026932.D (-1223) (-)

Ion 98.00 (97.70 to 98.70): VU026932.D (-1223) (-)

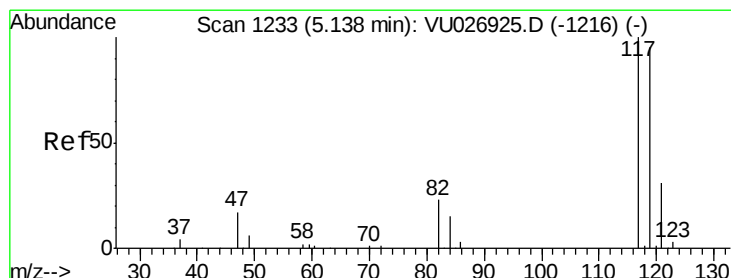
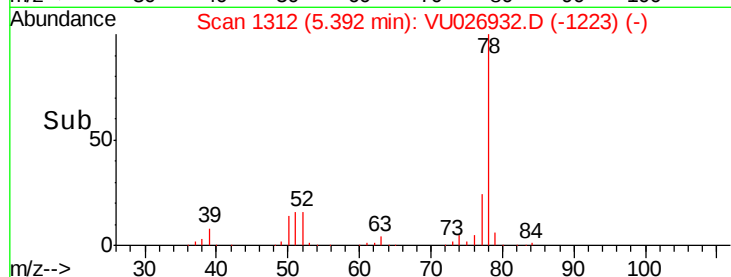
5.39

1000

500

0

Time--> 5.35 5.40



#31

Carbon tetrachloride

Concen: 0.918 ug/L

RT: 5.14 min Scan# 1233

Delta R.T. 0.00 min

Lab File: VU026932.D

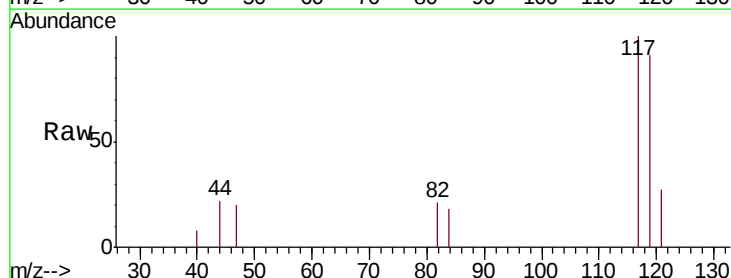
Acq: 20 Sep 2018 12:43

Tgt Ion: 117 Resp: 3118

Ion Ratio Lower Upper

117 100

119 95.9 76.3 114.5



Abundance Ion 117.00 (116.70 to 117.70): VU026932.D (-1140) (-)

Ion 119.00 (118.70 to 119.70): VU026932.D (-1140) (-)

5.14

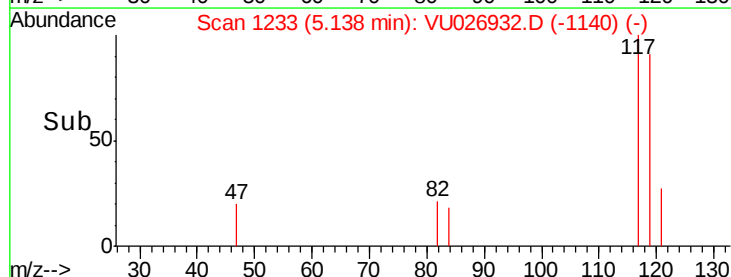
1500

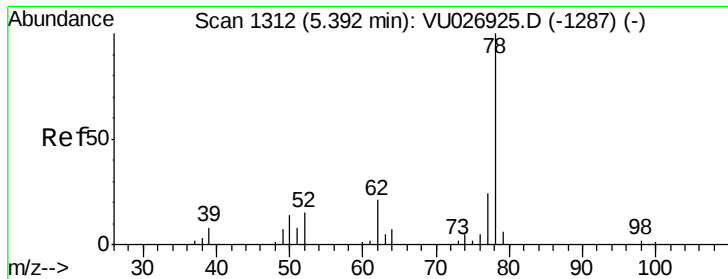
1000

500

0

Time--> 5.10 5.15





#33

Benzene

Concen: 29.025 ug/L

RT: 5.39 min Scan# 1312

Delta R.T. 0.00 min

Lab File: VU026932.D

Acq: 20 Sep 2018 12:43

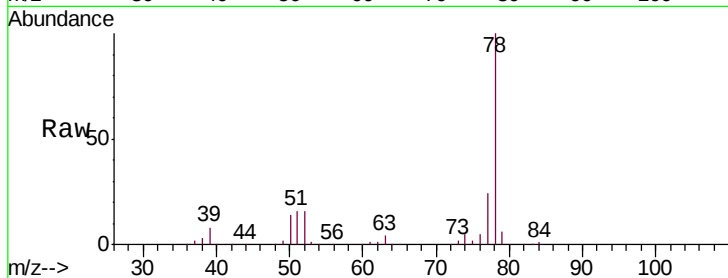
Instrument :

MSVOA_U

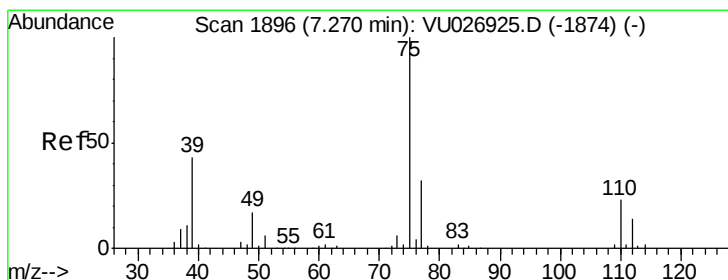
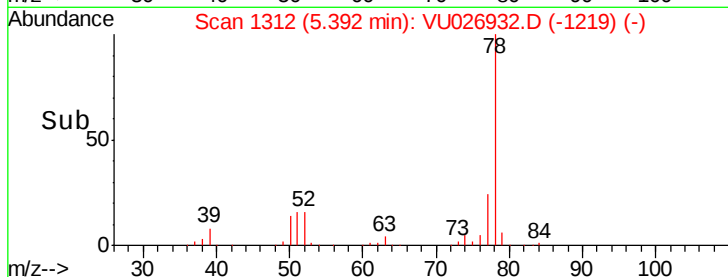
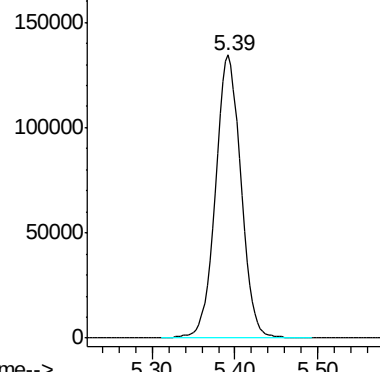
ClientSampleId :

C08K3

Tgt Ion: 78 Resp: 286762



Abundance Ion 78.00 (77.70 to 78.70): VU0



#39

cis-1,3-Dichloropropene

Concen: 0.713 ug/L

RT: 7.23 min Scan# 1884

Delta R.T. -0.04 min

Lab File: VU026932.D

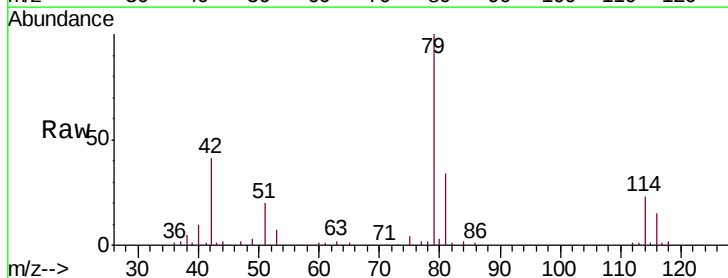
Acq: 20 Sep 2018 12:43

Tgt Ion: 75 Resp: 2735

Ion Ratio Lower Upper

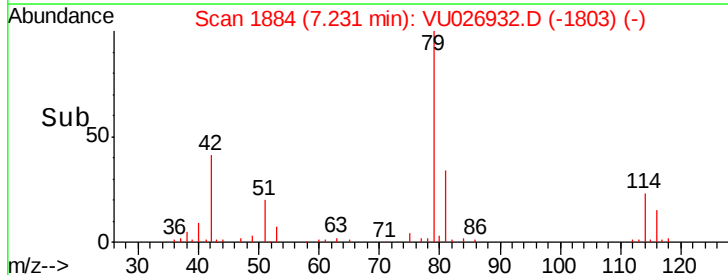
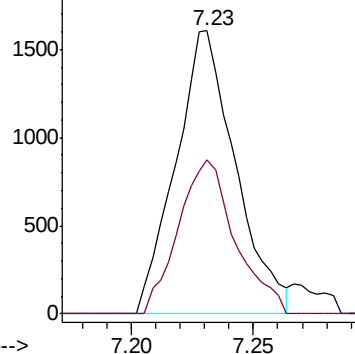
75 100

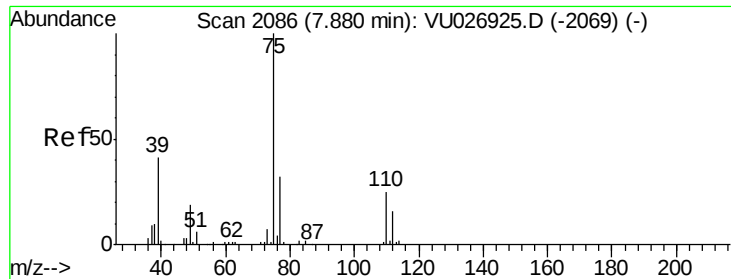
77 54.4 22.1 41.1#



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0





#44

trans-1,3-Dichloropropene

Concen: 0.583 ug/L

RT: 7.85 min Scan# 2076

Delta R.T. -0.03 min

Lab File: VU026932.D

Acq: 20 Sep 2018 12:43

Instrument :

MSVOA_U

ClientSampled :

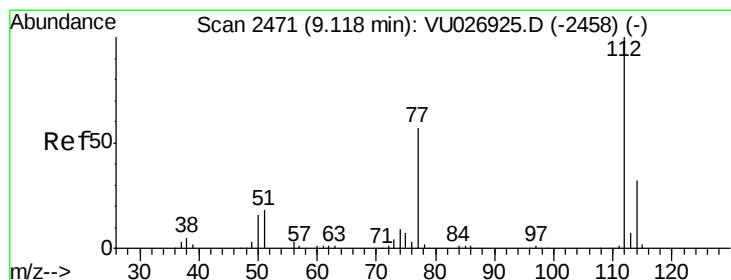
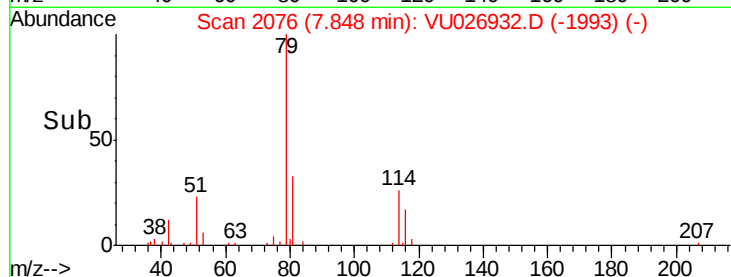
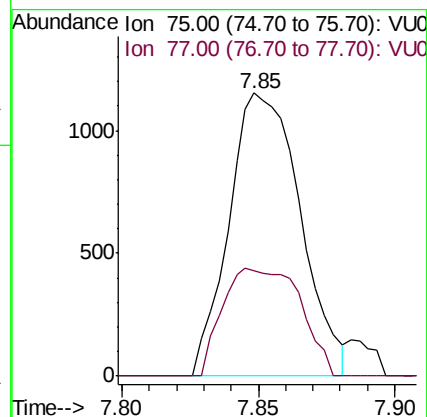
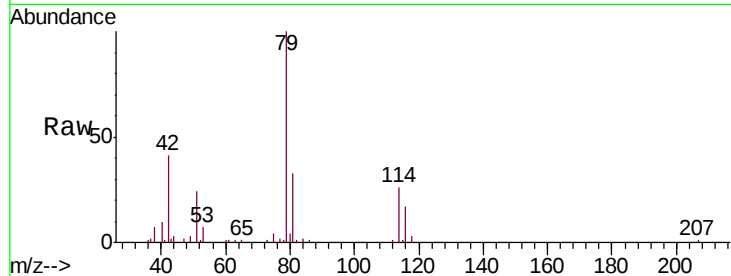
C08K3

Tgt Ion: 75 Resp: 2091

Ion Ratio Lower Upper

75 100

77 37.3 22.8 42.4



#51

Chlorobenzene

Concen: 107.230 ug/L

RT: 9.12 min Scan# 2471

Delta R.T. 0.00 min

Lab File: VU026932.D

Acq: 20 Sep 2018 12:43

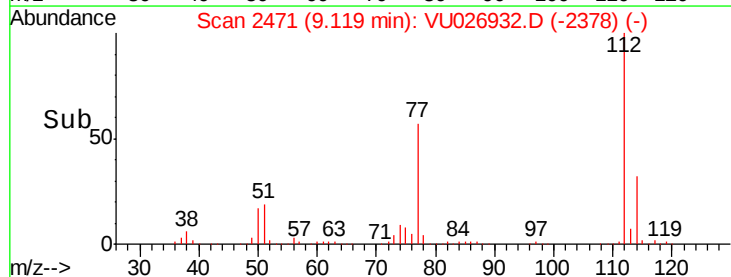
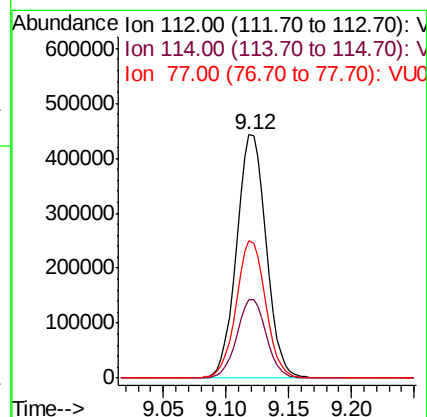
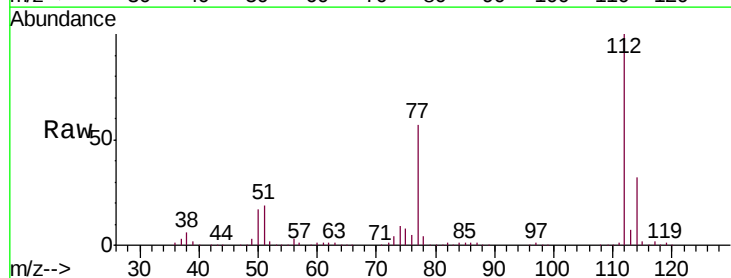
Tgt Ion: 112 Resp: 727463

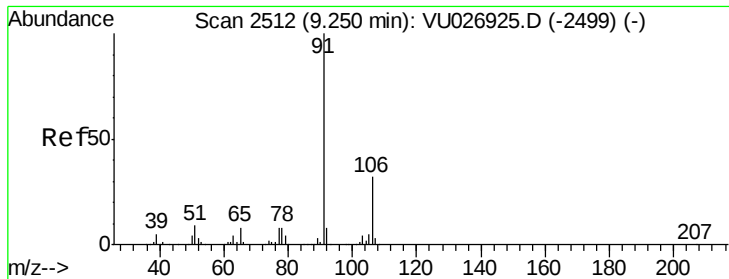
Ion Ratio Lower Upper

112 100

114 32.3 22.3 41.5

77 56.5 45.1 67.7





#52

Ethylbenzene

Concen: 0.612 ug/L

RT: 9.25 min Scan# 2513

Delta R.T. 0.00 min

Lab File: VU026932.D

Acq: 20 Sep 2018 12:43

Instrument :

MSVOA_U

ClientSampleId :

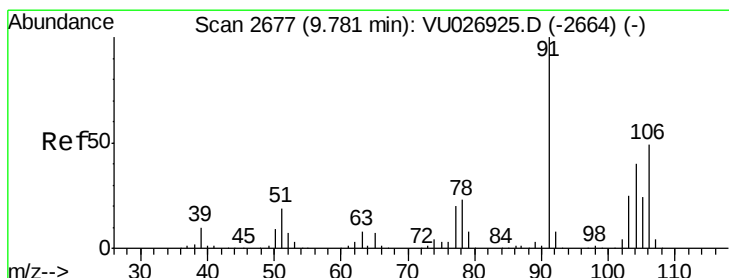
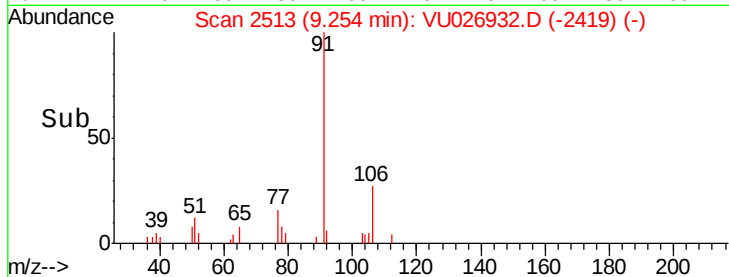
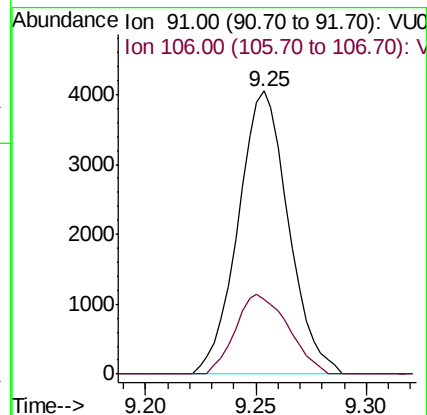
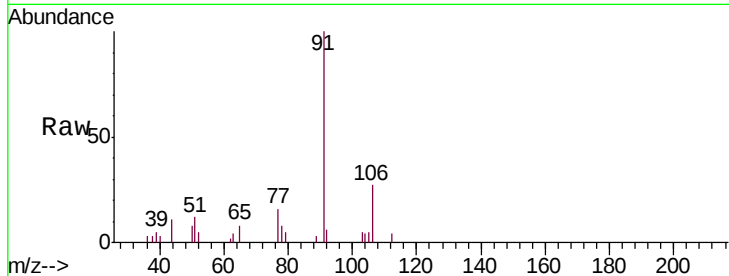
C08K3

Tgt Ion: 91 Resp: 6412

Ion Ratio Lower Upper

91 100

106 26.6 22.0 40.8



#54

o-xylene

Concen: 1.720 ug/L

RT: 9.78 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VU026932.D

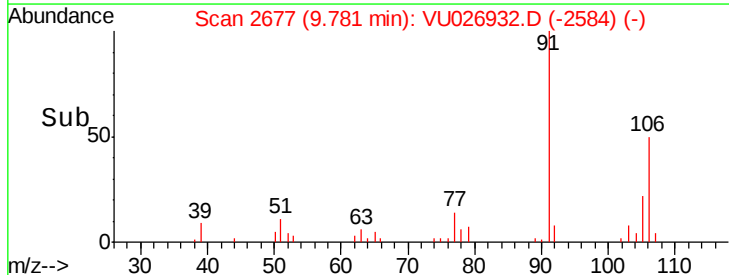
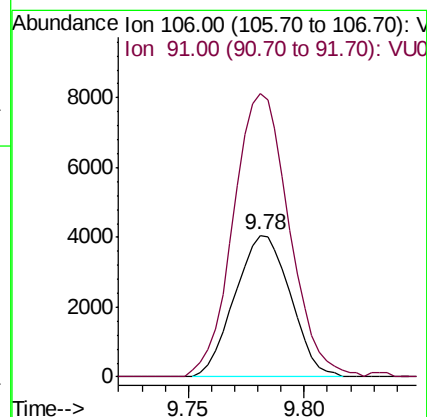
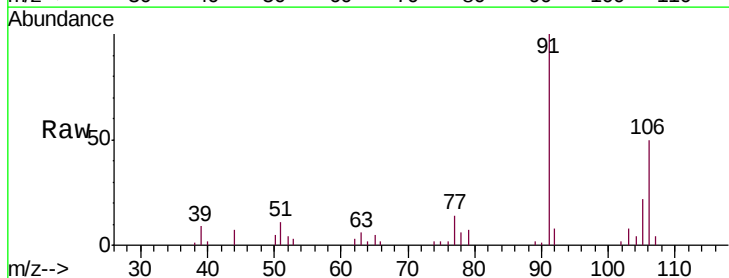
Acq: 20 Sep 2018 12:43

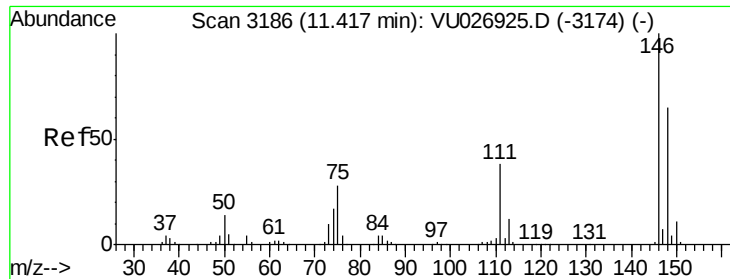
Tgt Ion: 106 Resp: 6746

Ion Ratio Lower Upper

106 100

91 199.8 143.1 265.9





#62

1,3-Dichlorobenzene

Concen: 107.156 ug/L

RT: 11.42 min Scan# 3186

Delta R.T. 0.00 min

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Acq: 20 Sep 2018 12:43

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C08K3

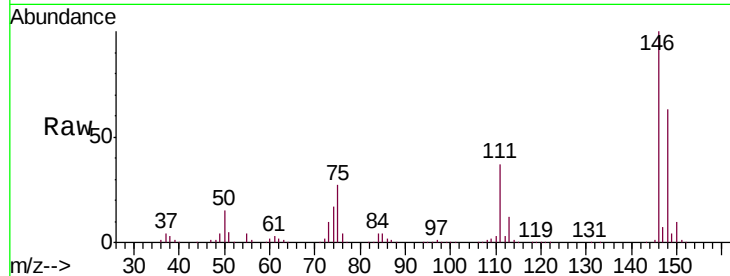
Tgt Ion:146 Resp: 605654

Ion Ratio Lower Upper

146 100

111 37.5 26.7 49.7

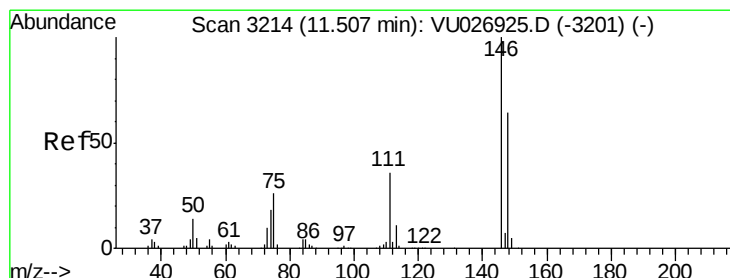
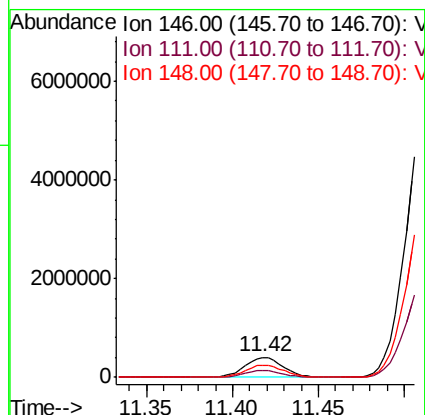
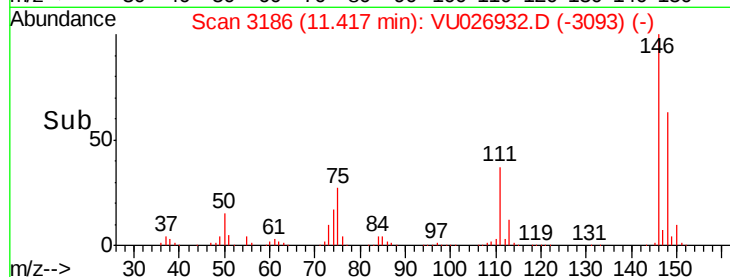
148 63.4 44.9 83.5



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: 1458.289 ug/L

RT: 11.51 min Scan# 3216

Delta R.T. 0.01 min

Lab File: VU026932.D

Acq: 20 Sep 2018 12:43

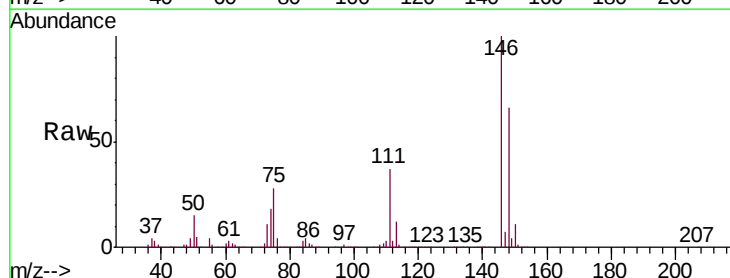
Tgt Ion:146 Resp: 9075912

Ion Ratio Lower Upper

146 100

111 37.1 26.0 48.2

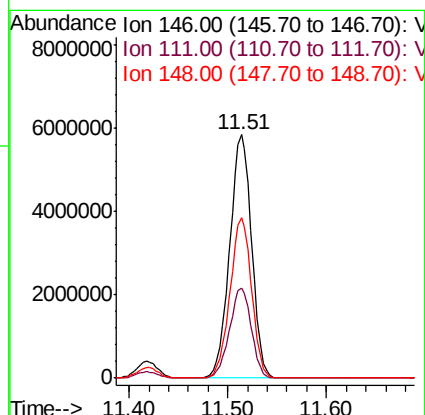
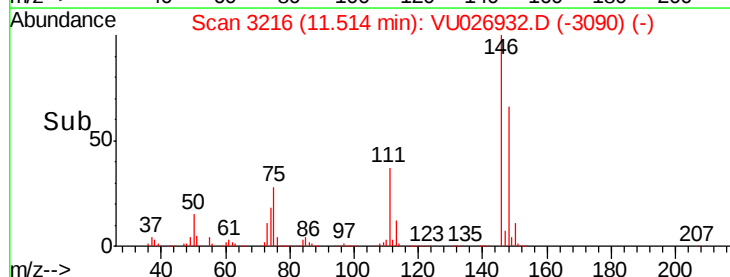
148 65.8 45.8 85.2

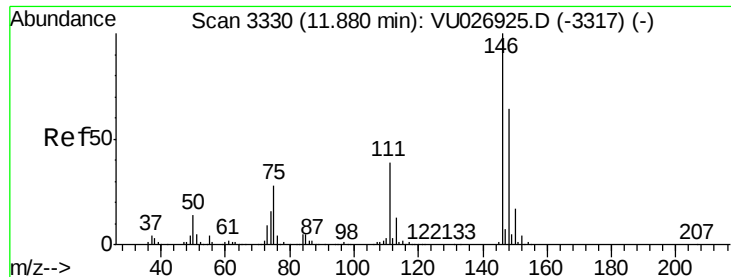


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 416.866 ug/L

RT: 11.88 min Scan# 3330

Delta R.T. 0.00 min

Lab File: VU026932.D

Acq: 20 Sep 2018 12:43

Instrument :

MSVOA_U

ClientSampleId :

C08K3

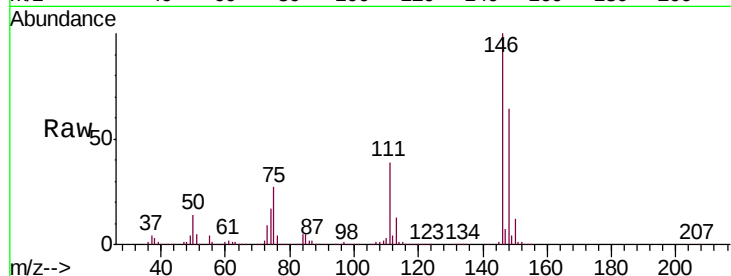
Tgt Ion:146 Resp: 2608890

Ion Ratio Lower Upper

146 100

111 39.0 31.4 47.0

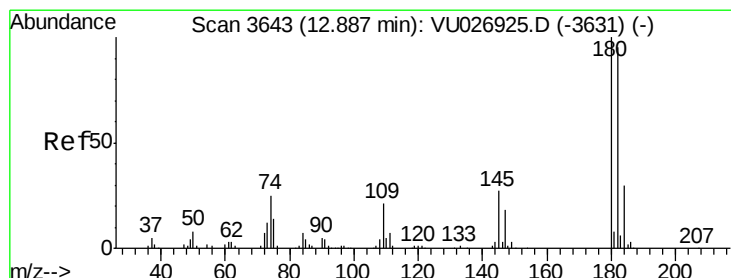
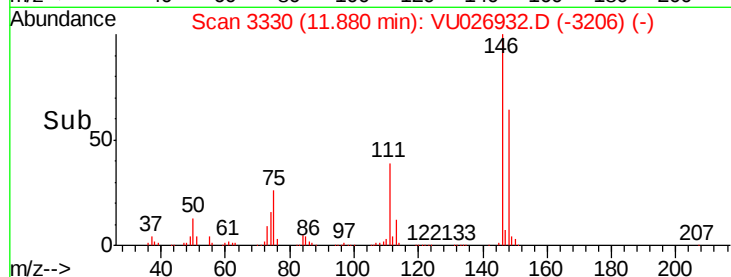
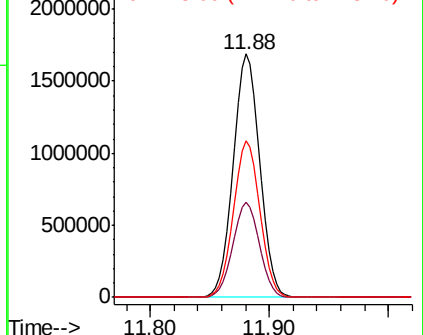
148 64.2 51.4 77.2



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



#67

1,3,5-Trichlorobenzene

Concen: 115.643 ug/L

RT: 13.50 min Scan# 3835

Delta R.T. 0.62 min

Lab File: VU026932.D

Acq: 20 Sep 2018 12:43

Tgt Ion:180 Resp: 505796

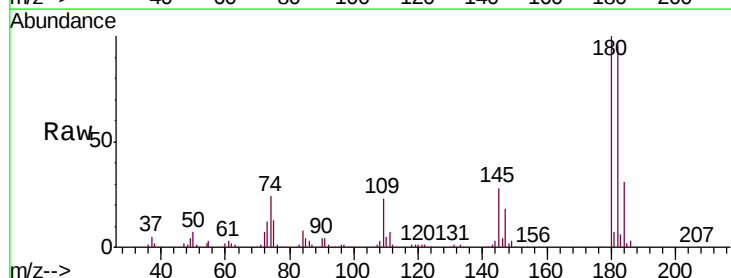
Ion Ratio Lower Upper

180 100

182 96.0 76.7 115.1

184 30.8 24.2 36.4

145 27.5 21.8 32.6

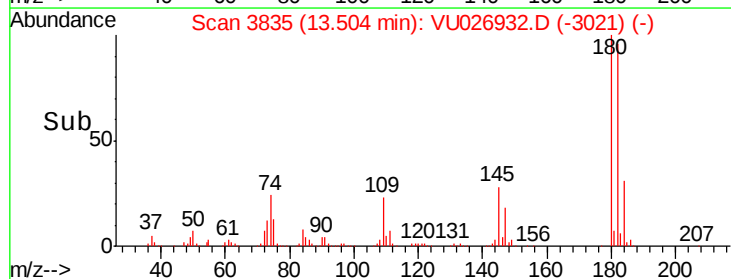
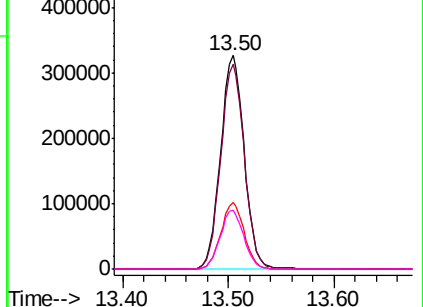


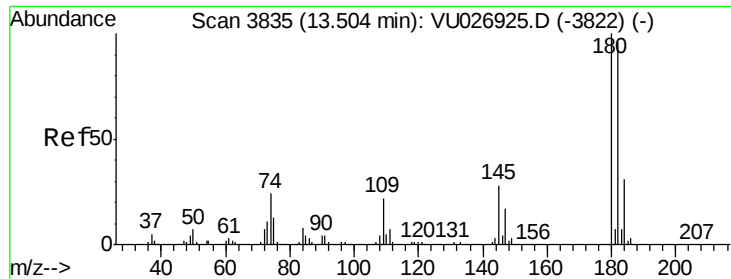
Abundance Ion 180.00 (179.70 to 180.70): V

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

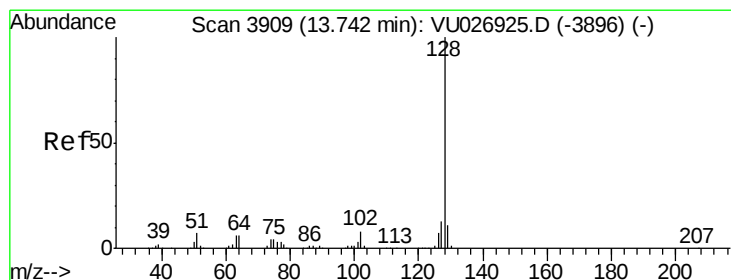
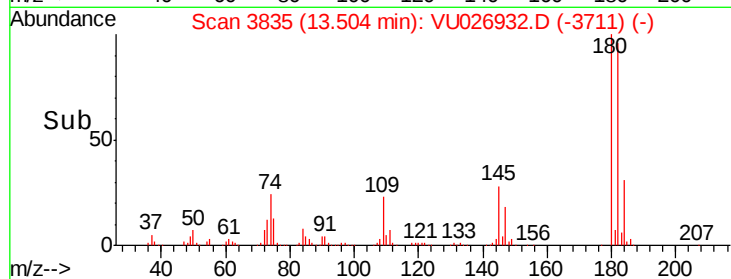
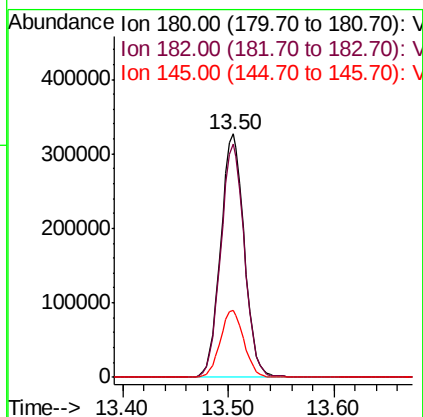
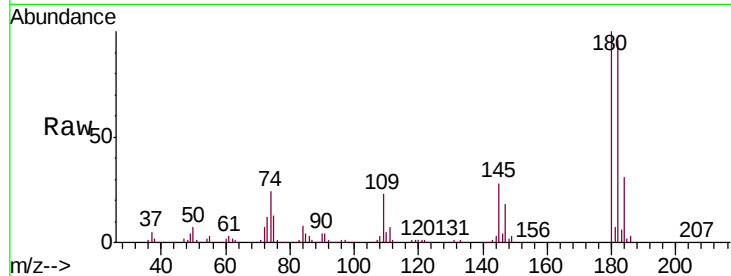




#68
 1,2,4-trichlorobenzene
 Concen: 134.198 ug/L
 RT: 13.50 min Scan# 3835
 Delta R.T. 0.00 min
 Lab File: VU026932.D
 Acq: 20 Sep 2018 12:43

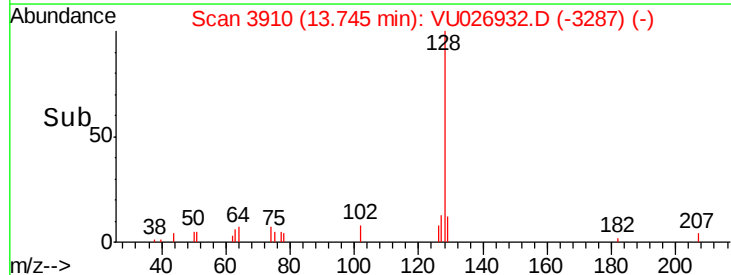
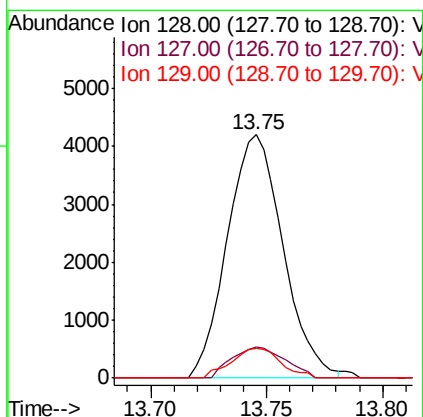
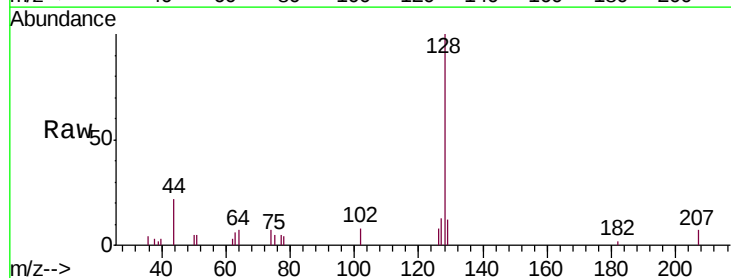
Instrument :
 MSVOA_U
 ClientSampleId :
 C08K3

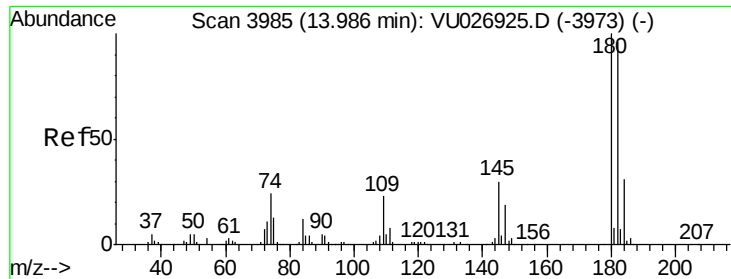
Tgt Ion:180 Resp: 505796
 Ion Ratio Lower Upper
 180 100
 182 96.0 76.8 115.2
 145 27.5 22.2 33.2



#69
 Naphthalene
 Concen: 0.631 ug/L
 RT: 13.75 min Scan# 3910
 Delta R.T. 0.00 min
 Lab File: VU026932.D
 Acq: 20 Sep 2018 12:43

Tgt Ion:128 Resp: 7008
 Ion Ratio Lower Upper
 128 100
 127 12.3 10.2 15.4
 129 10.6 8.6 12.8





#70
 1,2,3-Trichlorobenzene
 Concen: 24.533 ug/L
 RT: 13.99 min Scan# 3985
 Delta R.T. 0.00 min
 Lab File: VU026932.D
 Acq: 20 Sep 2018 12:43

Instrument :
 MSVOA_U
 ClientSampleId :
 C08K3

Tgt Ion	Resp	Lower	Upper
180	101827		
182	96.3	75.6	113.4
145	29.7	23.8	35.6

