

Data File : VU031388.D
Acq On : 22 Apr 2019 12:51
Operator : JC/SP
Sample : K2428-15
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
C0X16

Quant Time: Apr 23 01:03:03 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM041719WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Apr 23 00:59:20 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	625004	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	466712	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	225152	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	184421	32.04	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	64.08%
7) Chloroethane-d5	1.68	69	159746	31.97	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	63.94%#
11) 1,1-Dichloroethene-d2	2.27	63	273277	23.97	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	47.94%#
21) 2-Butanone-d5	4.19	46	377817	90.13	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	90.13%
24) Chloroform-d	4.64	84	330462	34.41	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	68.82%#
26) 1,2-Dichloroethane-d4	5.31	65	198107	33.50	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	67.00%#
32) Benzene-d6	5.34	84	683489	46.32	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.64%
36) 1,2-Dichloropropane-d6	6.33	67	228396	47.70	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	95.40%
41) Toluene-d8	7.56	98	469455	36.16	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	72.32%#
43) trans-1,3-Dichloropropene-	7.85	79	76816	33.56	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	67.12%
47) 2-Hexanone-d5	8.31	63	206118	91.18	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	91.18%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	270163	40.64	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	81.28%
64) 1,2-Dichlorobenzene-d4	11.85	152	198561	38.45	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	76.90%#

Target Compounds

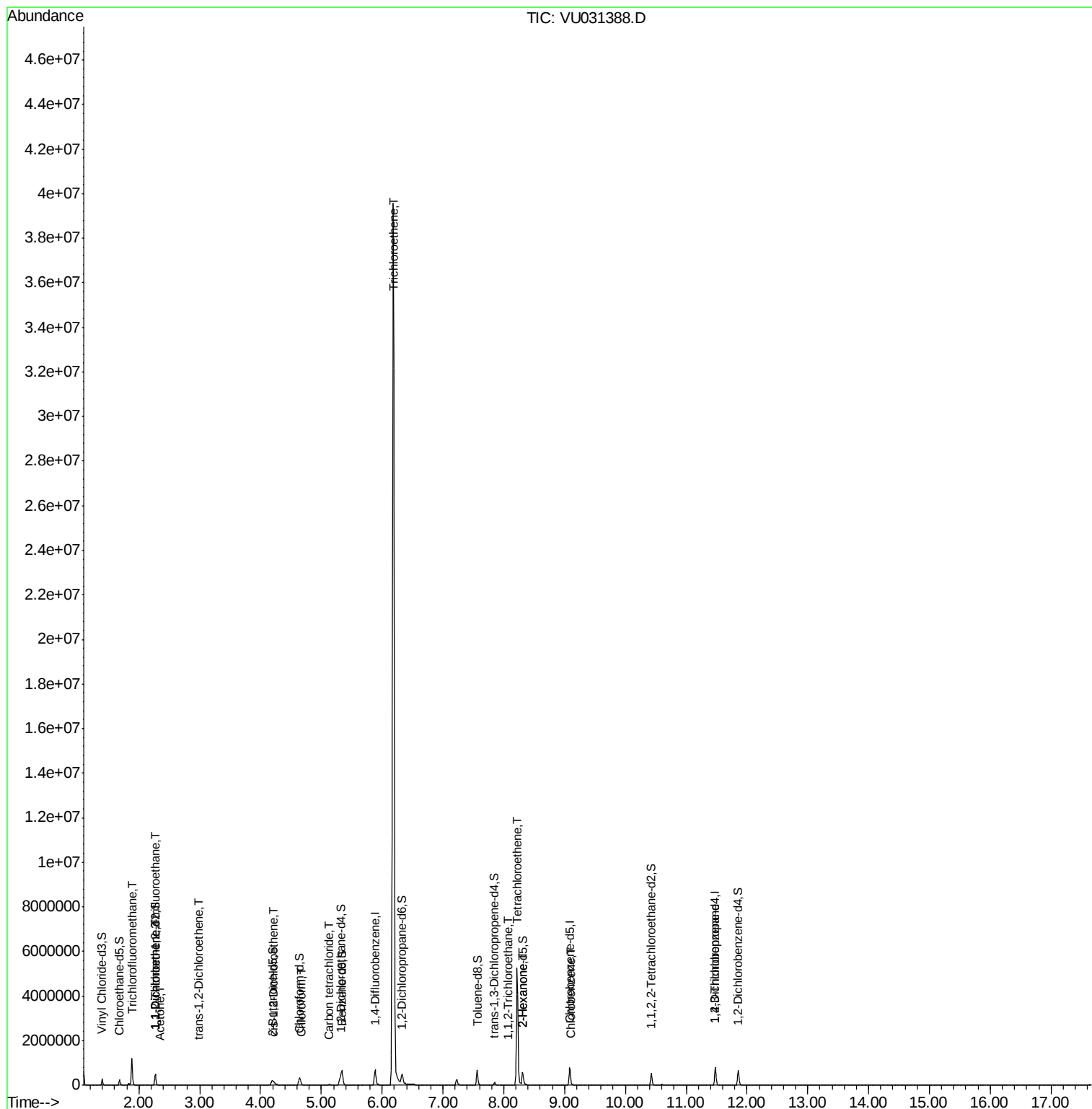
						Qvalue
9) Trichlorofluoromethane	1.88	101	744428	78.185	ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	2970	0.596	ug/L #	19
12) 1,1-Dichloroethene	2.27	96	3309	0.677	ug/L #	1
13) Acetone	2.35	43	6592	2.043	ug/L	60
17) trans-1,2-Dichloroethene	2.98	96	4222	0.949	ug/L	81
20) cis-1,2-Dichloroethene	4.22	96	33581	6.483	ug/L	91
25) Chloroform	4.67	83	10323	1.138	ug/L	92
31) Carbon tetrachloride	5.13	117	15741	2.946	ug/L	92
34) Trichloroethene	6.18	95	14614708	3720.966	ug/L	95
45) 1,1,2-Trichloroethane	8.07	97	4338	1.159	ug/L	96
46) Tetrachloroethene	8.22	164	1312398	444.254	ug/L	97
48) 2-Hexanone	8.31	43	20821	4.463	ug/L #	67
51) Chlorobenzene	9.12	112	5058	0.518	ug/L	89
59) 1,2,3-Trichloropropane	11.48	75	23017	4.655	ug/L	90

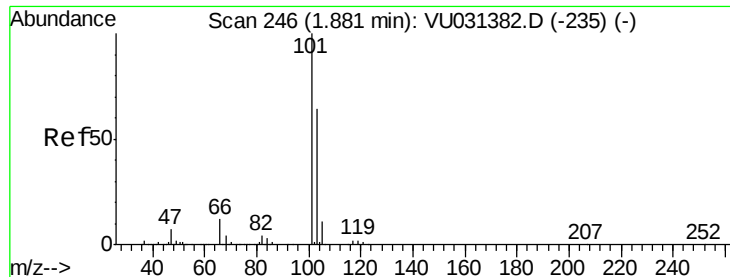
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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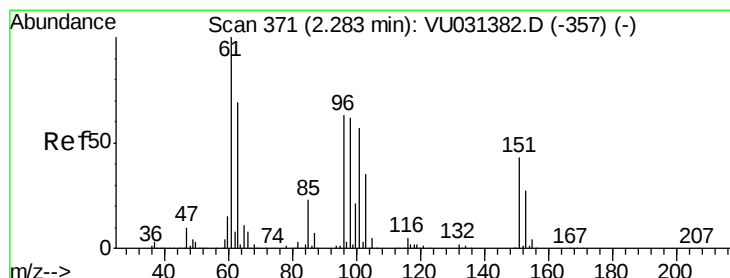
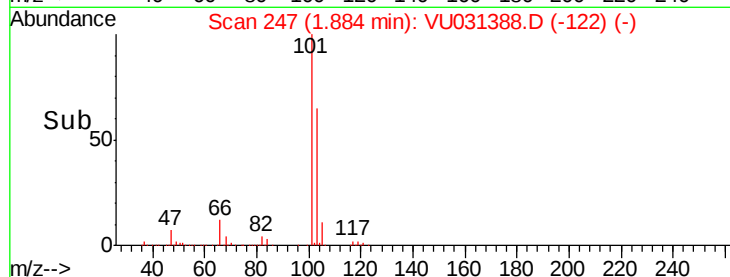
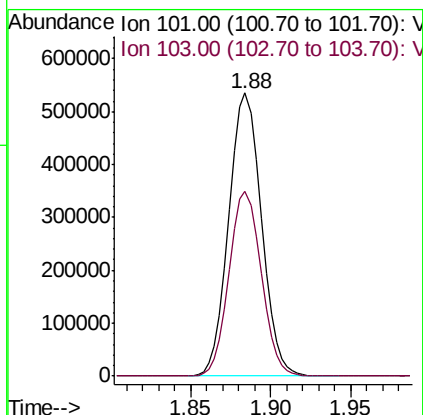
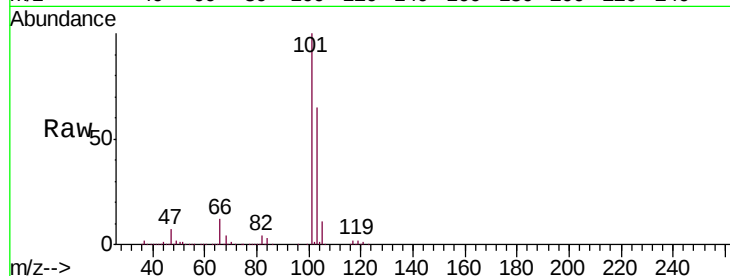


#9

Trichlorofluoromethane
 Concen: 78.185 ug/L
 RT: 1.88 min Scan# 247
 Delta R.T. 0.00 min
 Lab File: VU031388.D
 Acq: 22 Apr 2019 12:51

Instrument :
 MSVOA_U
 ClientSampleId :
 C0X16

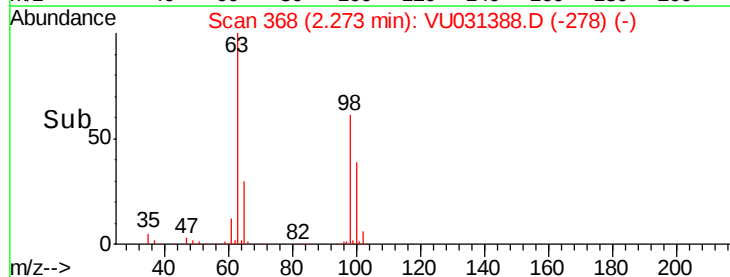
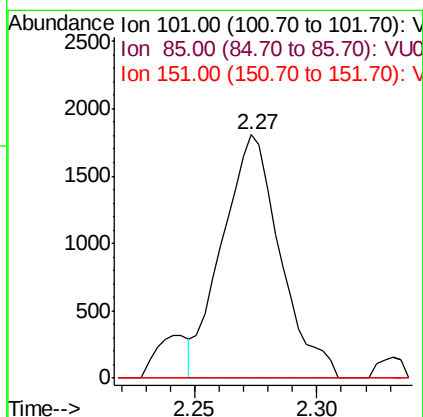
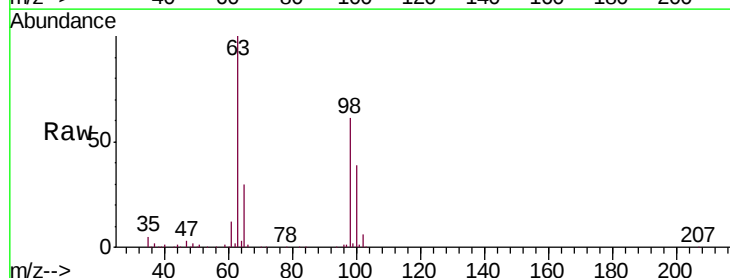
Tgt Ion:101 Resp: 744428
 Ion Ratio Lower Upper
 101 100
 103 64.4 53.0 79.6

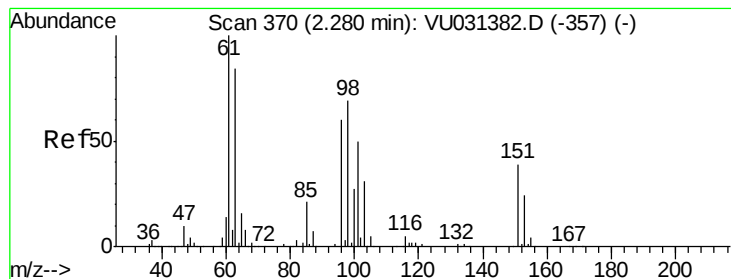


#10

1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.596 ug/L
 RT: 2.27 min Scan# 368
 Delta R.T. -0.01 min
 Lab File: VU031388.D
 Acq: 22 Apr 2019 12:51

Tgt Ion:101 Resp: 2970
 Ion Ratio Lower Upper
 101 100
 85 0.0 35.4 53.0#
 151 0.0 59.8 89.8#





#12

1,1-Dichloroethene

Concen: 0.677 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.01 min

Lab File: VU031388.D

Acq: 22 Apr 2019 12:51

Instrument :

MSVOA_U

ClientSampleId :

C0X16

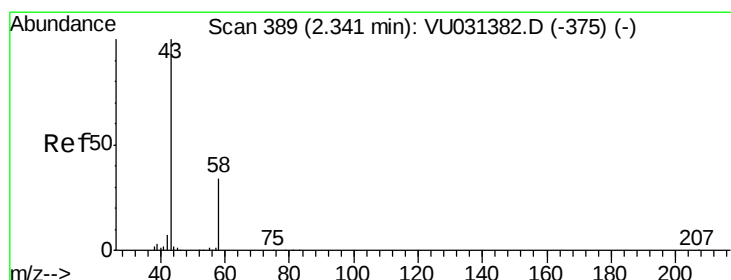
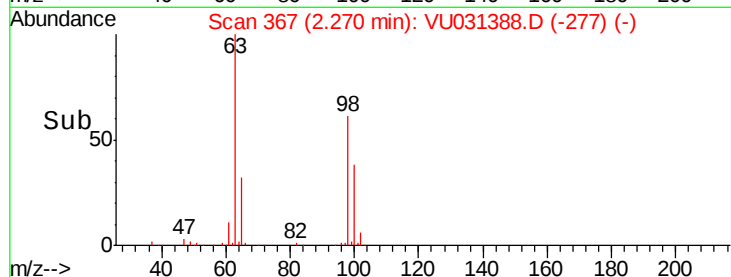
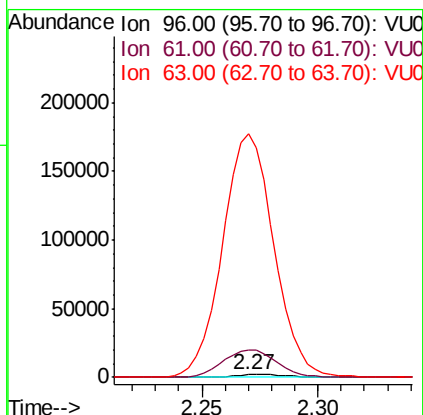
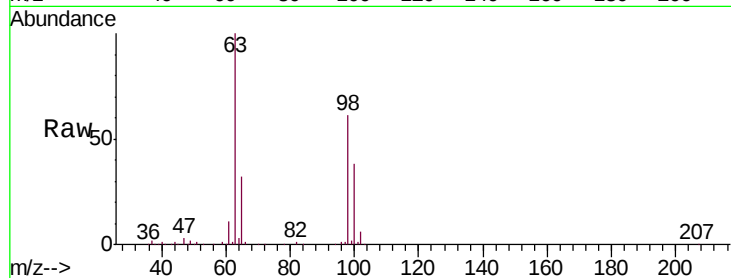
Tgt Ion: 96 Resp: 3309

Ion Ratio Lower Upper

96 100

61 1022.4 130.4 242.2#

63 9146.2 108.9 202.3#



#13

Acetone

Concen: 2.043 ug/L

RT: 2.35 min Scan# 393

Delta R.T. 0.01 min

Lab File: VU031388.D

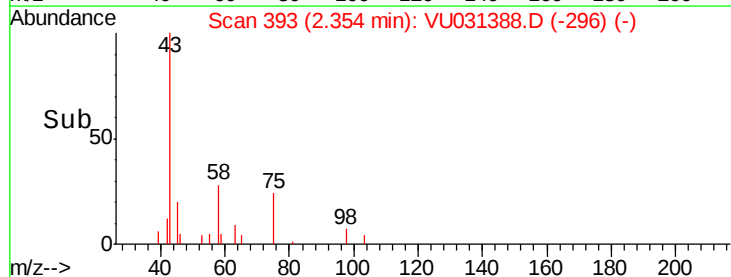
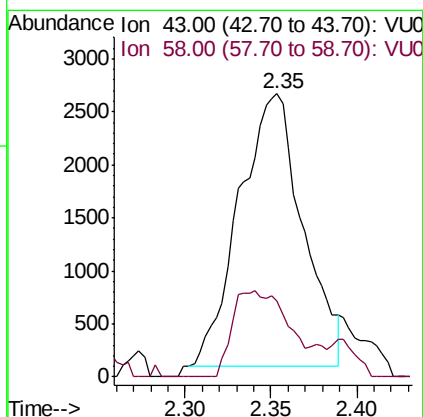
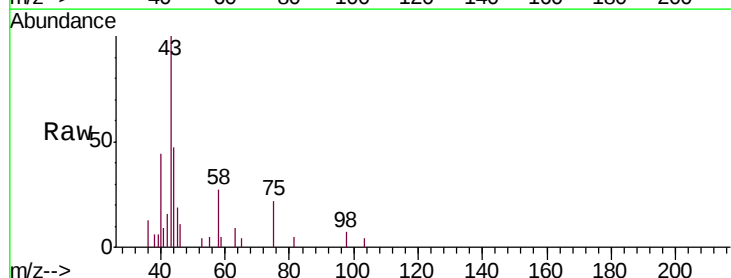
Acq: 22 Apr 2019 12:51

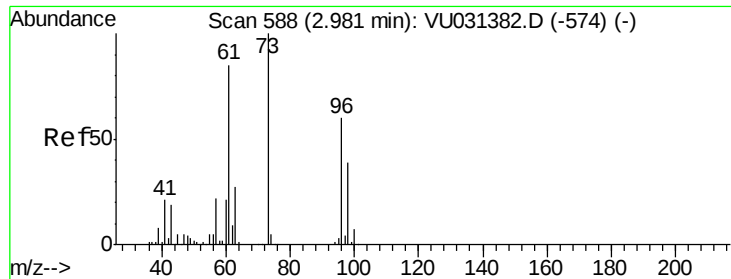
Tgt Ion: 43 Resp: 6592

Ion Ratio Lower Upper

43 100

58 9.9 0.0 65.0





#17

trans-1,2-Dichloroethene

Concen: 0.949 ug/L

RT: 2.98 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU031388.D

Acq: 22 Apr 2019 12:51

Instrument :

MSVOA_U

ClientSampleId :

C0X16

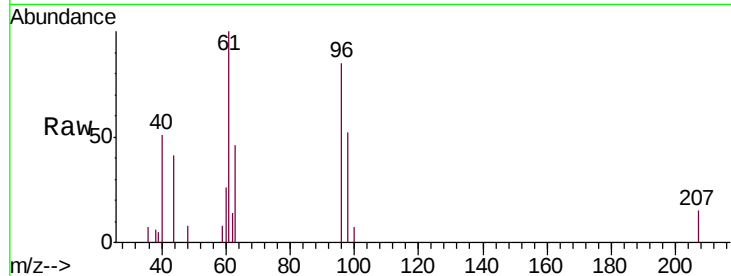
Tgt Ion: 96 Resp: 4222

Ion Ratio Lower Upper

96 100

61 117.9 105.5 195.9

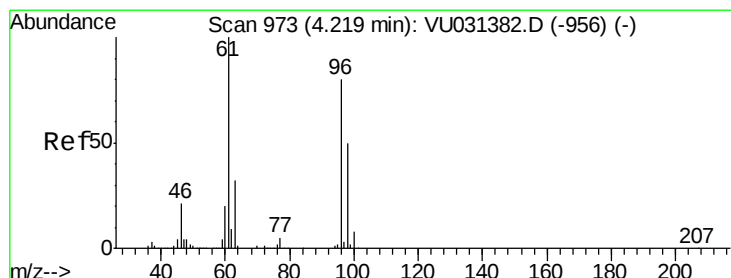
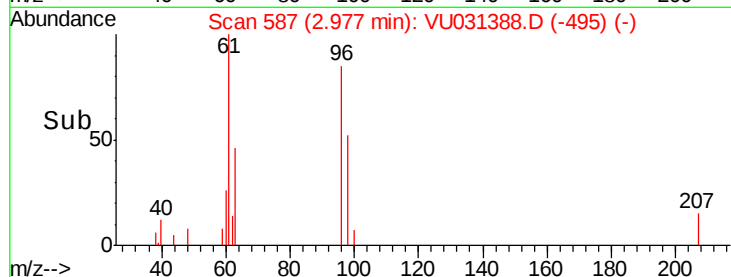
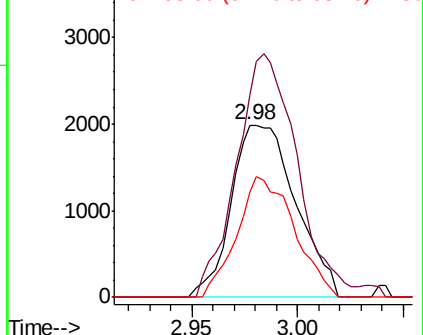
98 61.4 45.4 84.4



Abundance Ion 96.00 (95.70 to 96.70): VU031388.D (-574) (-)

Ion 61.00 (60.70 to 61.70): VU031388.D (-574) (-)

Ion 98.00 (97.70 to 98.70): VU031388.D (-574) (-)



#20

cis-1,2-Dichloroethene

Concen: 6.483 ug/L

RT: 4.22 min Scan# 975

Delta R.T. 0.01 min

Lab File: VU031388.D

Acq: 22 Apr 2019 12:51

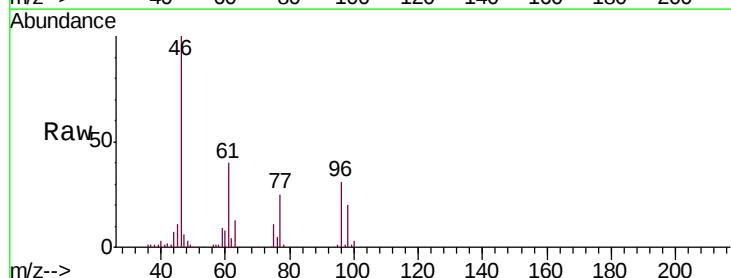
Tgt Ion: 96 Resp: 33581

Ion Ratio Lower Upper

96 100

61 128.9 98.2 182.4

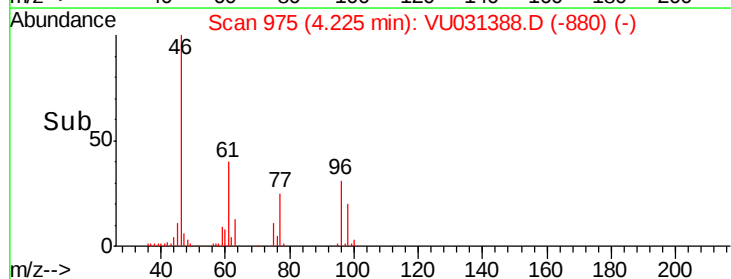
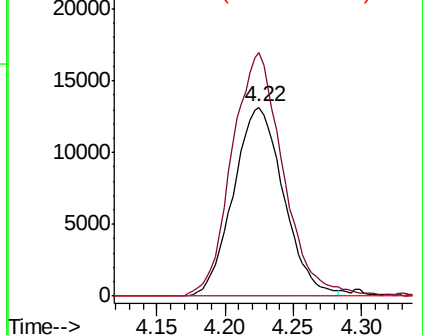
68 0.0 0.0 0.0

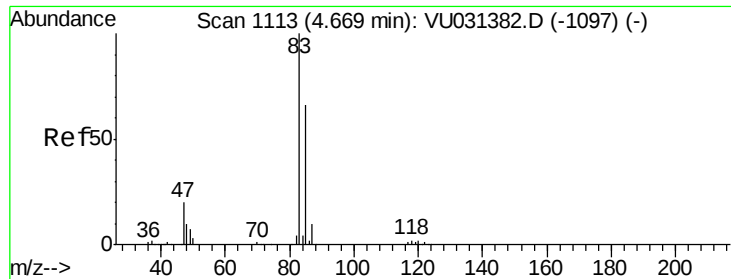


Abundance Ion 96.00 (95.70 to 96.70): VU031388.D (-956) (-)

Ion 61.00 (60.70 to 61.70): VU031388.D (-956) (-)

Ion 68.00 (67.70 to 68.70): VU031388.D (-956) (-)





#25

Chloroform

Concen: 1.138 ug/L

RT: 4.67 min Scan# 1114

Delta R.T. 0.00 min

Lab File: VU031388.D

Acq: 22 Apr 2019 12:51

Instrument :

MSVOA_U

ClientSampleId :

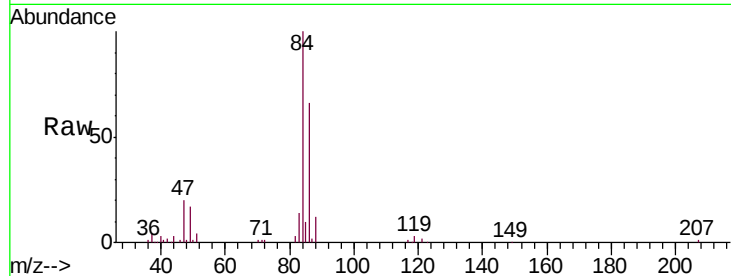
C0X16

Tgt Ion: 83 Resp: 10323

Ion Ratio Lower Upper

83 100

85 70.0 44.8 83.2



Abundance Ion 83.00 (82.70 to 83.70): VU031388.D (-1097) (-)

Ion 85.00 (84.70 to 85.70): VU031388.D (-1097) (-)

4.67

Time--> 4.60 4.65 4.70 4.75

Abundance

Scan 1114 (4.672 min): VU031388.D (-1020) (-)

Ref 50

m/z-->

Mass spectrum showing relative abundance (0 to 50) versus m/z (40 to 200). Key peaks are labeled at m/z 36, 47, 72, 84, 119, 149, and 207.

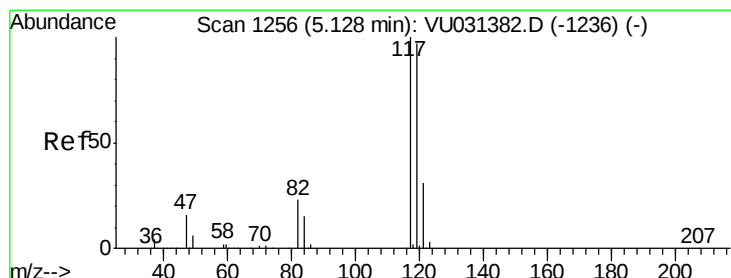
Abundance

Scan 1114 (4.672 min): VU031388.D (-1020) (-)

Ref 50

m/z-->

Mass spectrum showing relative abundance (0 to 50) versus m/z (40 to 200). Key peaks are labeled at m/z 36, 47, 72, 84, 119, 149, and 207.



#31

Carbon tetrachloride

Concen: 2.946 ug/L

RT: 5.13 min Scan# 1257

Delta R.T. 0.00 min

Lab File: VU031388.D

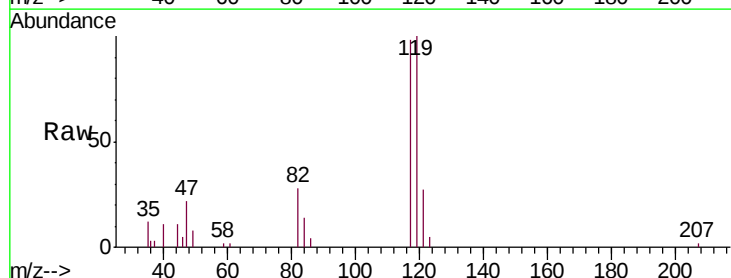
Acq: 22 Apr 2019 12:51

Tgt Ion: 117 Resp: 15741

Ion Ratio Lower Upper

117 100

119 105.9 78.0 117.0



Abundance Ion 117.00 (116.70 to 117.70): VU031388.D (-1236) (-)

Ion 119.00 (118.70 to 119.70): VU031388.D (-1236) (-)

5.13

Time--> 5.05 5.10 5.15 5.20

Abundance

Scan 1257 (5.132 min): VU031388.D (-1163) (-)

Ref 50

m/z-->

Mass spectrum showing relative abundance (0 to 50) versus m/z (40 to 200). Key peaks are labeled at m/z 35, 47, 58, 82, 119, and 207.

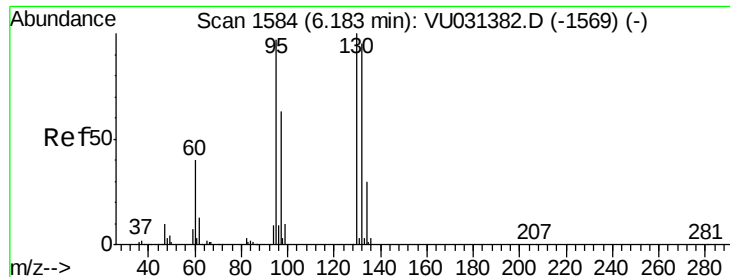
Abundance

Scan 1257 (5.132 min): VU031388.D (-1163) (-)

Ref 50

m/z-->

Mass spectrum showing relative abundance (0 to 50) versus m/z (40 to 200). Key peaks are labeled at m/z 35, 47, 58, 82, 119, and 207.



#34

Trichloroethene

Concen: 3720.966 ug/L

RT: 6.18 min Scan# 1584

Delta R.T. -0.00 min

Lab File: VU031388.D

Acq: 22 Apr 2019 12:51

Instrument :

MSVOA_U

ClientSampleId :

C0X16

Tgt Ion: 95 Resp:14614708

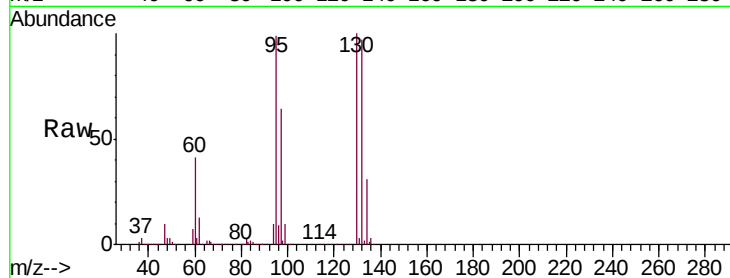
Ion Ratio Lower Upper

95 100

97 65.1 43.6 81.0

132 97.9 64.5 119.7

130 100.9 68.0 126.2

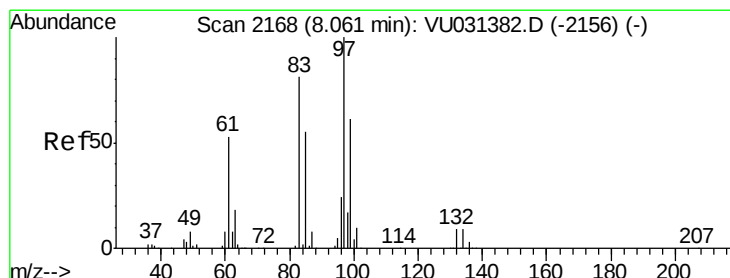
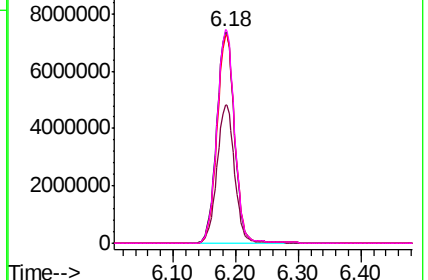
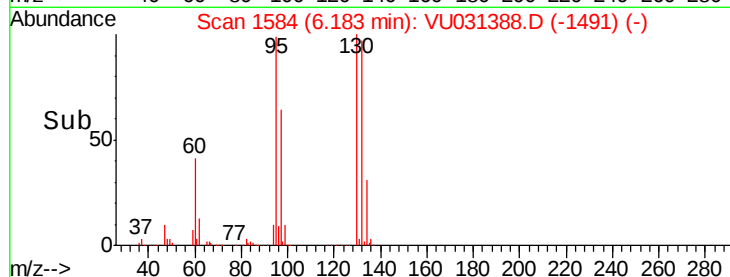


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#45

1,1,2-Trichloroethane

Concen: 1.159 ug/L

RT: 8.07 min Scan# 2171

Delta R.T. 0.01 min

Lab File: VU031388.D

Acq: 22 Apr 2019 12:51

Tgt Ion: 97 Resp: 4338

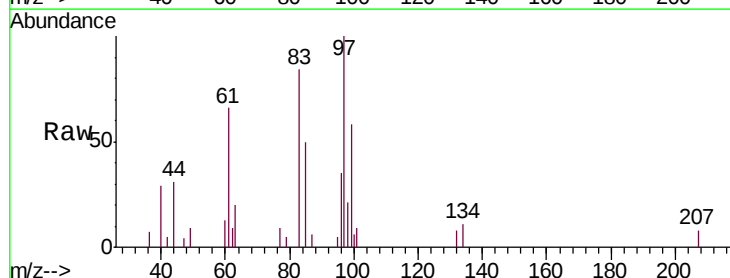
Ion Ratio Lower Upper

97 100

99 57.7 42.2 78.4

83 83.9 59.8 111.1

85 49.9 39.5 73.4

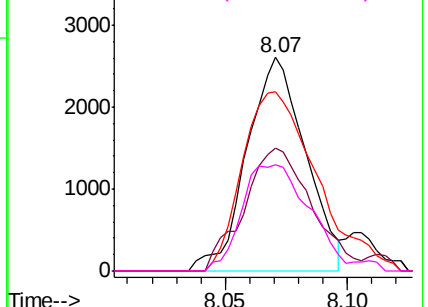
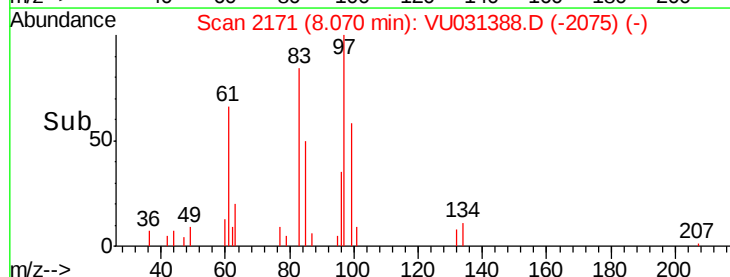


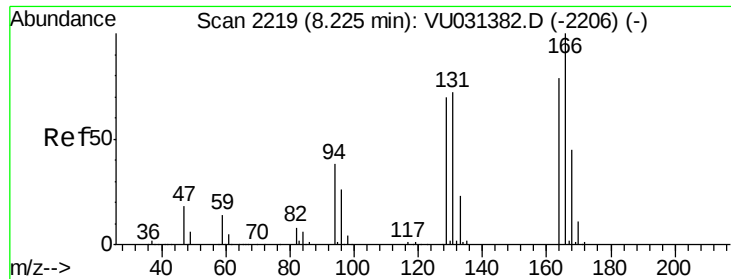
Abundance Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

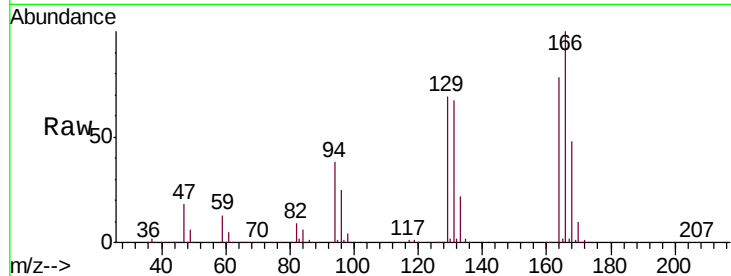




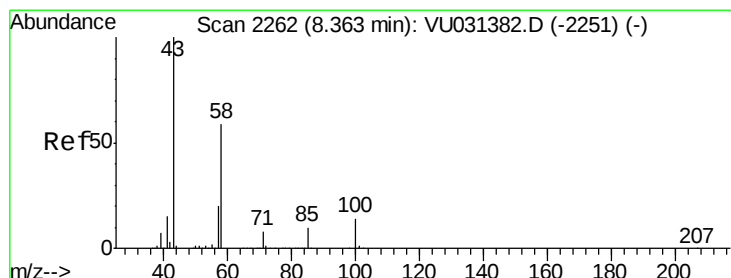
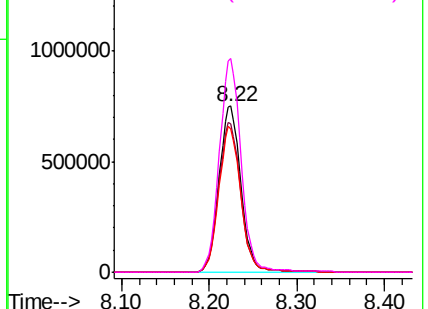
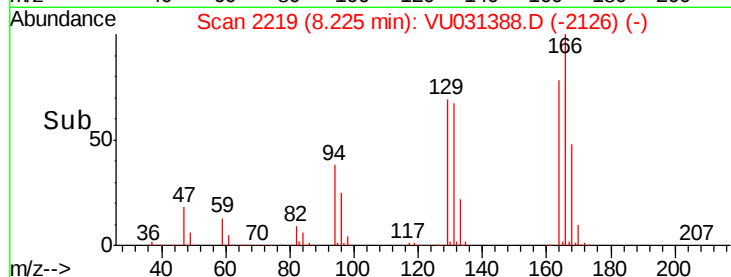
#46
Tetrachloroethene
Concen: 444.254 ug/L
RT: 8.22 min Scan# 2219
Delta R.T. -0.00 min
Lab File: VU031388.D
Acq: 22 Apr 2019 12:51

Instrument :
MSVOA_U
ClientSampled :
C0X16

Tgt Ion:	164	Resp:	1312398
Ion	Ratio	Lower	Upper
164	100		
129	89.3	66.5	123.5
131	86.7	62.3	115.7
166	128.6	90.6	168.3

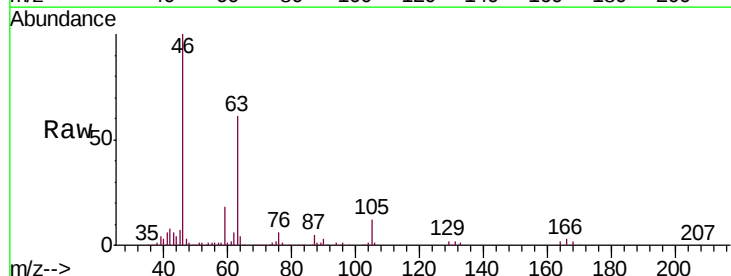


Abundance Ion 164.00 (163.70 to 164.70): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V
Ion 166.00 (165.70 to 166.70): V

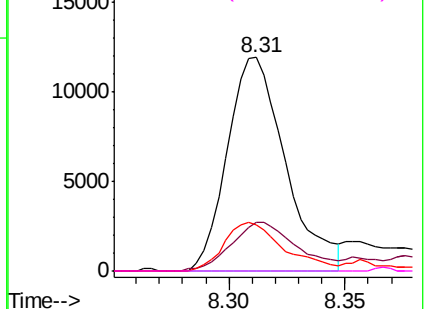
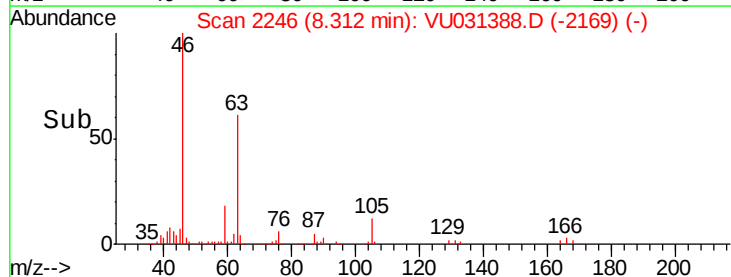


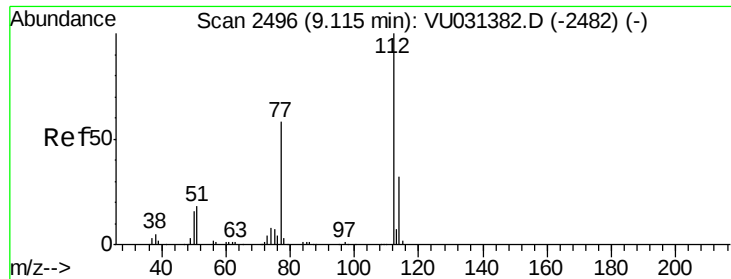
#48
2-Hexanone
Concen: 4.463 ug/L
RT: 8.31 min Scan# 2246
Delta R.T. -0.05 min
Lab File: VU031388.D
Acq: 22 Apr 2019 12:51

Tgt Ion:	43	Resp:	20821
Ion	Ratio	Lower	Upper
43	100		
58	25.6	44.9	67.3#
57	23.4	15.1	22.7#
100	0.0	8.6	13.0#



Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

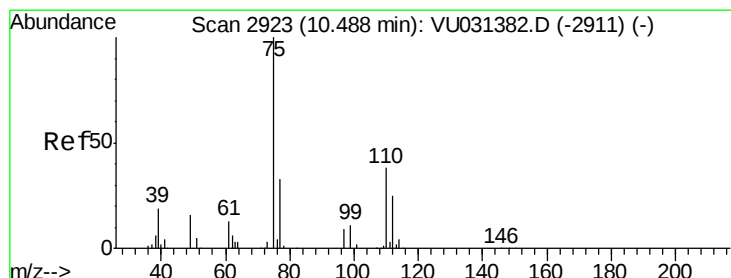
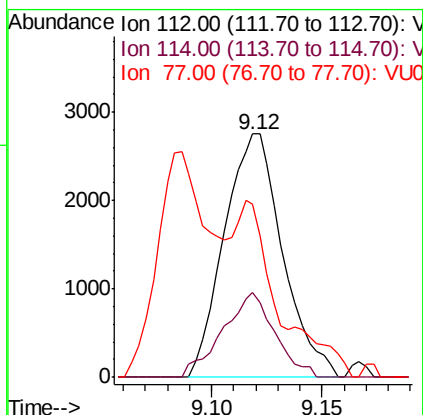
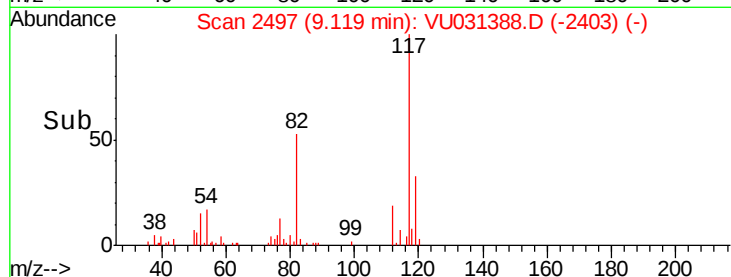
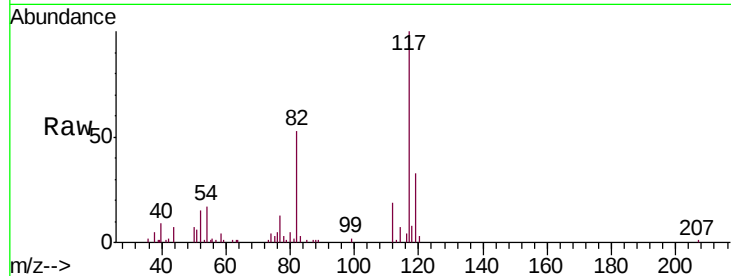




#51
Chlorobenzene
Concen: 0.518 ug/L
RT: 9.12 min Scan# 2497
Delta R.T. 0.00 min
Lab File: VU031388.D
Acq: 22 Apr 2019 12:51

Instrument :
MSVOA_U
ClientSampleId :
C0X16

Tgt Ion: 112 Resp: 5058
Ion Ratio Lower Upper
112 100
114 35.0 21.6 40.0
77 71.4 49.0 73.4



#59
1,2,3-Trichloropropane
Concen: 4.655 ug/L
RT: 11.48 min Scan# 3231
Delta R.T. 0.99 min
Lab File: VU031388.D
Acq: 22 Apr 2019 12:51

Tgt Ion: 75 Resp: 23017
Ion Ratio Lower Upper
75 100
77 37.6 25.4 38.2

