

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041019\
 Data File : VU030997.D
 Acq On : 10 Apr 2019 08:21
 Operator : JC/SP
 Sample : K2248-21DL 200X
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 52 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 E3YD4DL

Quant Time: Apr 10 09:01:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR032919WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Apr 10 08:56:46 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	206040	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	208886	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	82662	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	57496	3.65	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	73.00%
7) Chloroethane-d5	1.68	69	55912	4.40	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	88.00%
11) 1,1-Dichloroethene-d2	2.27	63	102298	3.17	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	63.40%
20) 2-Butanone-d5	4.18	46	257503	63.47	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	126.94%
24) Chloroform-d	4.64	84	115181	4.31	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	86.20%
26) 1,2-Dichloroethane-d4	5.31	65	79900	5.64	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	112.80%
32) Benzene-d6	5.33	84	234737	4.22	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	84.40%
36) 1,2-Dichloropropane-d6	6.32	67	90139	4.88	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	97.60%
41) Toluene-d8	7.56	98	175376	3.57	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	71.40%
43) trans-1,3-Dichloropropene-	7.85	79	26721	3.90	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	78.00%
46) 2-Hexanone-d5	8.31	63	152254	51.10	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	102.20%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	78229	5.92	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	118.40%
64) 1,2-Dichlorobenzene-d4	11.86	152	69387	5.02	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	100.40%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
12) 1,1-Dichloroethene	2.28	96	15874	1.056	ug/L #	21
16) Methylene chloride	2.70	84	3104	0.177	ug/L	97
18) trans-1,2-Dichloroethene	2.98	96	3357	0.212	ug/L #	71
19) 1,1-Dichloroethane	3.44	63	65009	1.936	ug/L	97
22) cis-1,2-Dichloroethene	4.22	96	420122	24.822	ug/L	98
25) Chloroform	4.67	83	21488	0.702	ug/L	85
29) 1,1,1-Trichloroethane	4.91	97	1519087	57.086	ug/L	98
31) Carbon tetrachloride	4.91	117	191130	8.555	ug/L	96
35) Methylcyclohexane	6.33	83	20582	0.729	ug/L #	14
37) 1,2-Dichloropropane	6.33	63	9755	0.502	ug/L #	91
47) Tetrachloroethene	8.23	164	10200	0.822	ug/L	84
48) 2-Hexanone	8.36	43	14437	1.718	ug/L #	94
49) Dibromochloromethane	8.22	129	9920	0.715	ug/L #	13
54) o-Xylene	9.78	106	10559	0.408	ug/L	84
59) 1,2,3-Trichloropropane	11.48	75	9778	0.900	ug/L	89

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Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Apr 10 08:56:46 2019
Response via : Initial Calibration

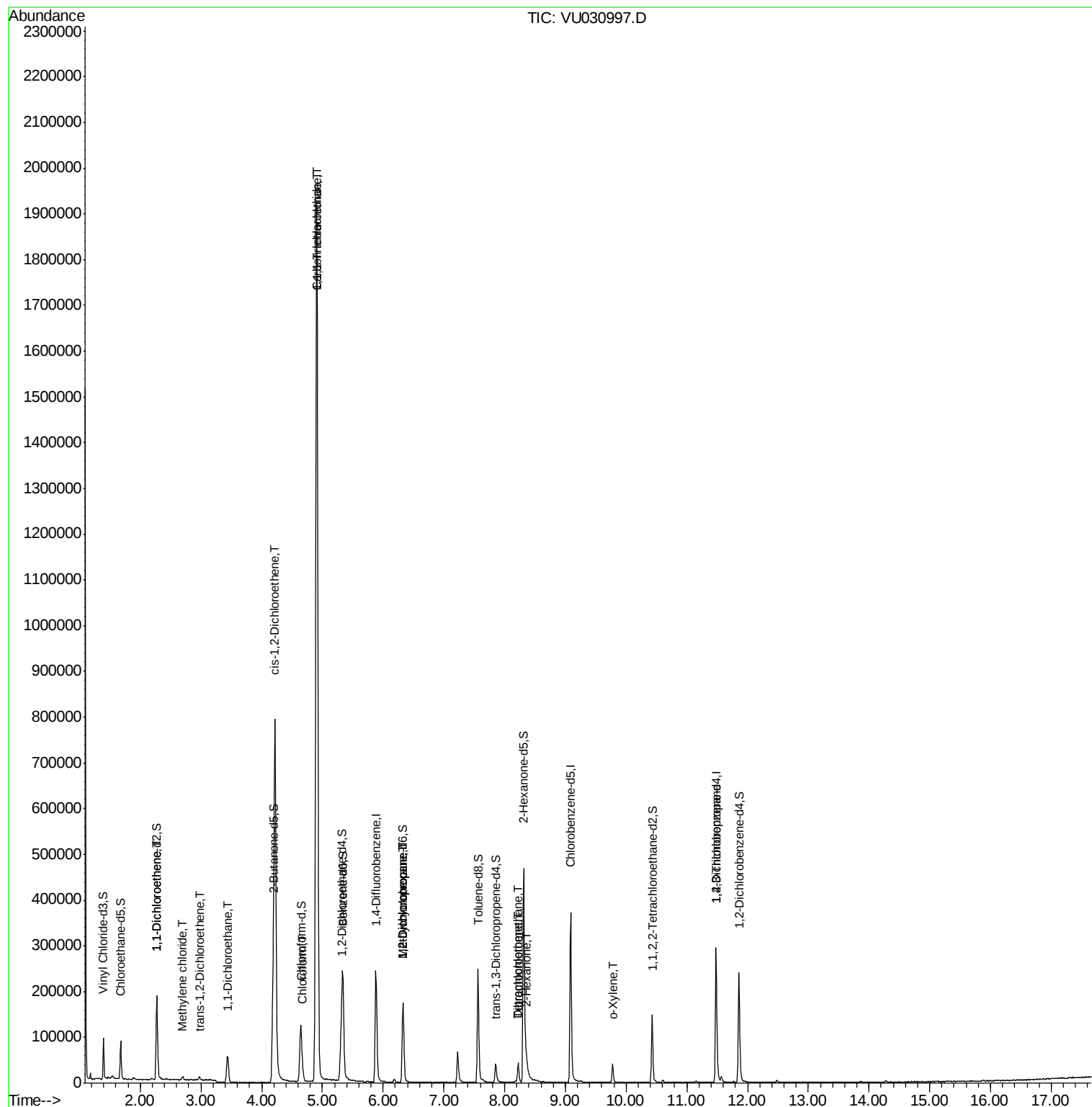
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

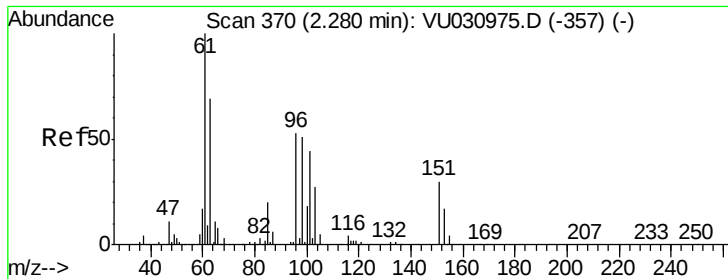
(#)=qualifier out of range (m)=manual integration (+)=signals summed						

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#12

1,1-Dichloroethene

Concen: 1.056 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU030997.D

Acq: 10 Apr 2019 08:21

Instrument :

MSVOA_U

ClientSampleId :

E3YD4DL

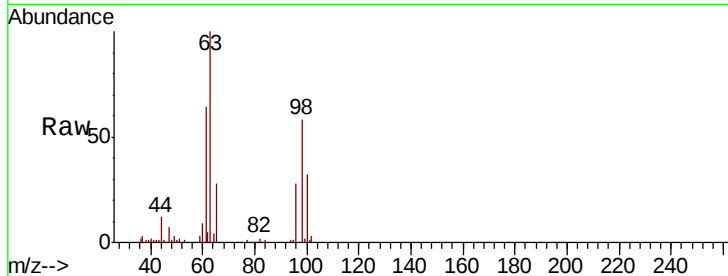
Tot Ion: 96 Resp: 15874

Ion Ratio Lower Upper

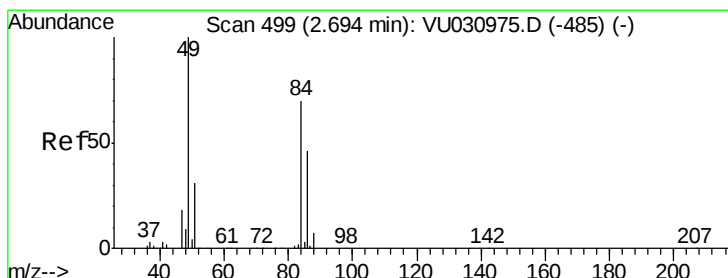
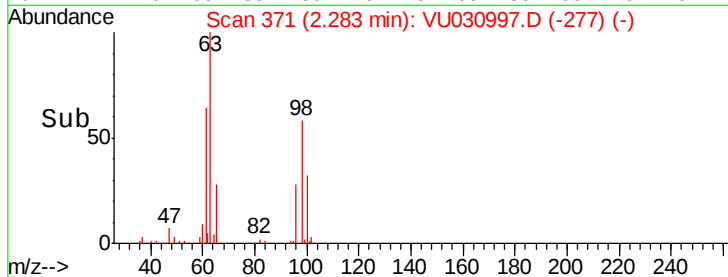
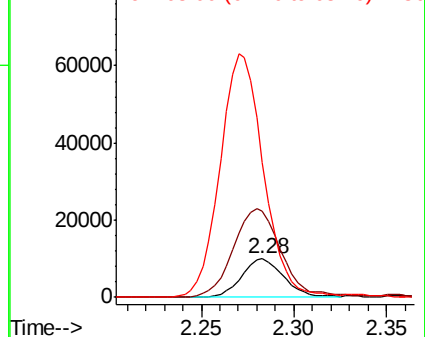
96 100

61 225.4 136.9 254.3

63 352.5 107.7 200.1#



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



#16

Methylene chloride

Concen: 0.177 ug/L

RT: 2.70 min Scan# 502

Delta R.T. 0.01 min

Lab File: VU030997.D

Acq: 10 Apr 2019 08:21

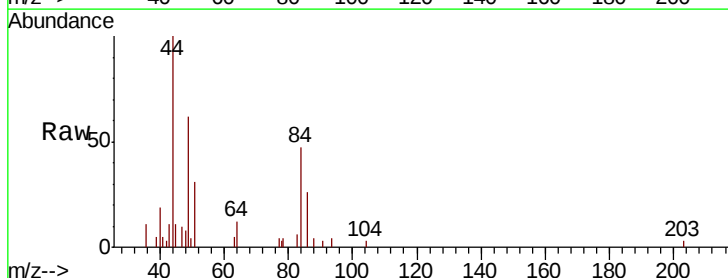
Tgt Ion: 84 Resp: 3104

Ion Ratio Lower Upper

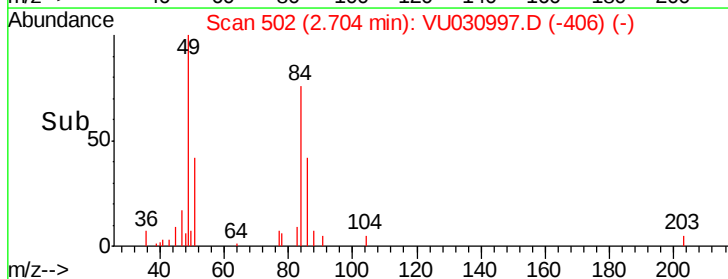
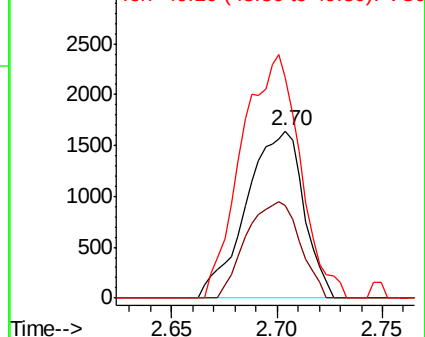
84 100

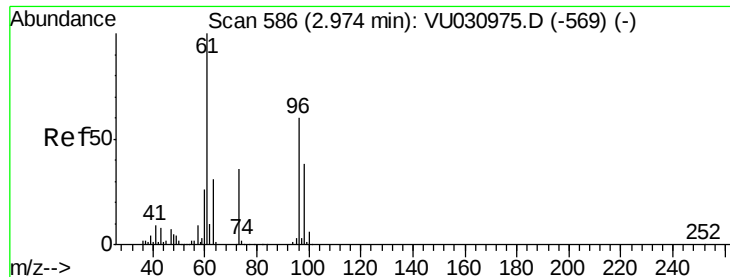
86 55.8 43.4 80.6

49 141.4 98.5 182.9



Abundance Ion 84.05 (83.75 to 84.75): VU0
Ion 86.00 (85.70 to 86.70): VU0
Ion 49.10 (48.80 to 49.80): VU0





#18

trans-1,2-Dichloroethene

Concen: 0.212 ug/L

RT: 2.98 min Scan# 588

Delta R.T. 0.01 min

Lab File: VU030997.D

Acq: 10 Apr 2019 08:21

Instrument :

MSVOA_U

ClientSampleId :

E3YD4DL

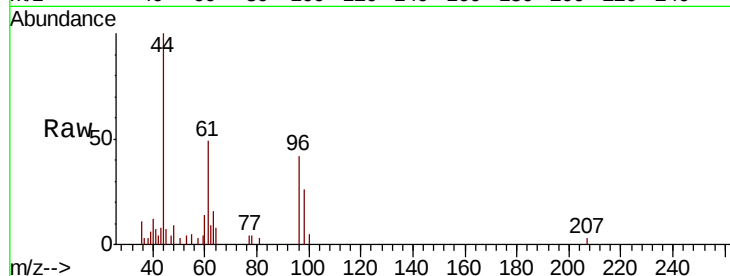
Tot Ion: 96 Resp: 3357

Ion Ratio Lower Upper

96 100

61 115.7 116.8 216.8#

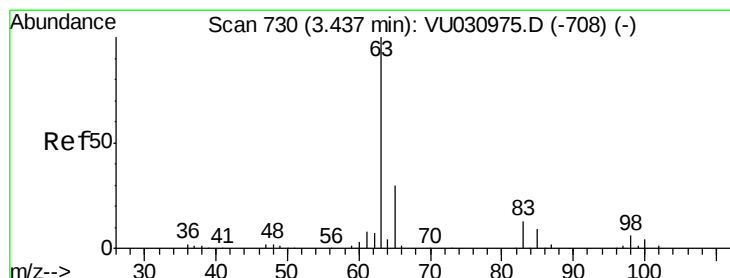
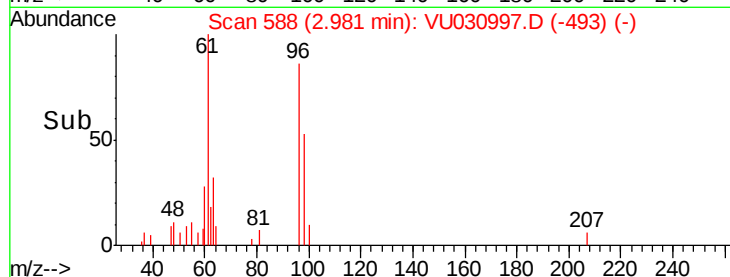
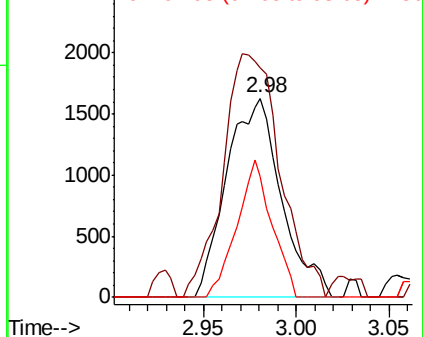
98 61.0 46.8 87.0



Abundance Ion 96.00 (95.70 to 96.70): VU030997.D (-493) (-)

Ion 61.05 (60.75 to 61.75): VU030997.D (-493) (-)

Ion 97.95 (97.65 to 98.65): VU030997.D (-493) (-)



#19

1,1-Dichloroethane

Concen: 1.936 ug/L

RT: 3.44 min Scan# 730

Delta R.T. 0.00 min

Lab File: VU030997.D

Acq: 10 Apr 2019 08:21

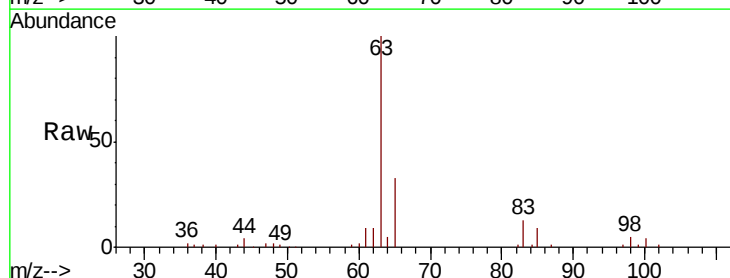
Tgt Ion: 63 Resp: 65009

Ion Ratio Lower Upper

63 100

65 33.2 21.6 40.0

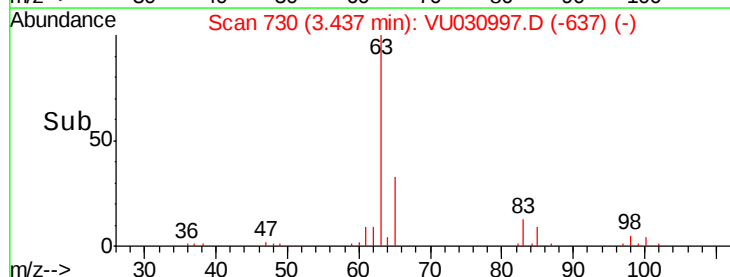
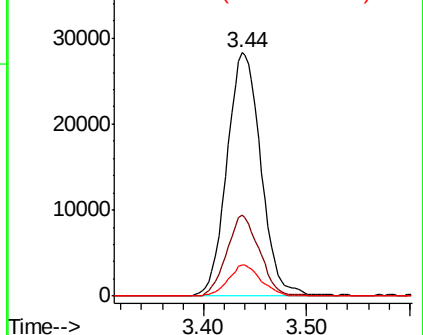
83 13.0 9.1 16.9

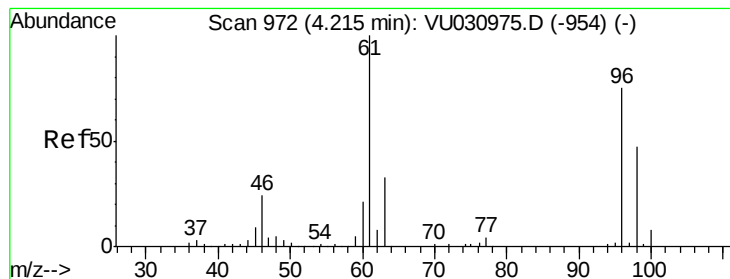


Abundance Ion 63.10 (62.80 to 63.80): VU030997.D (-637) (-)

Ion 65.10 (64.80 to 65.80): VU030997.D (-637) (-)

Ion 83.05 (82.75 to 83.75): VU030997.D (-637) (-)



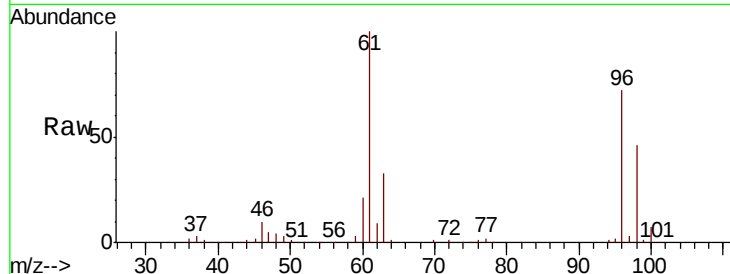


#22

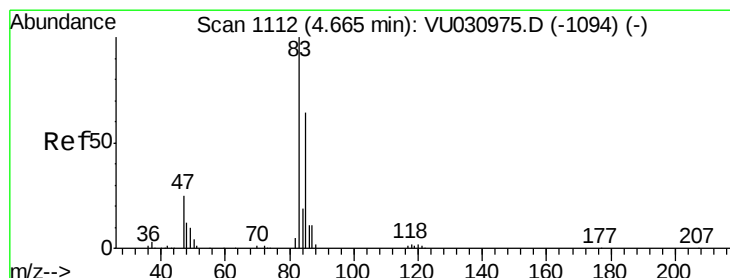
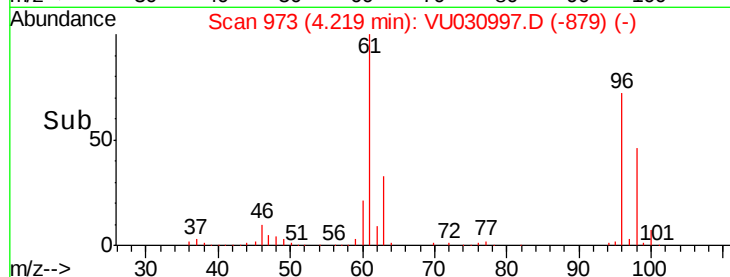
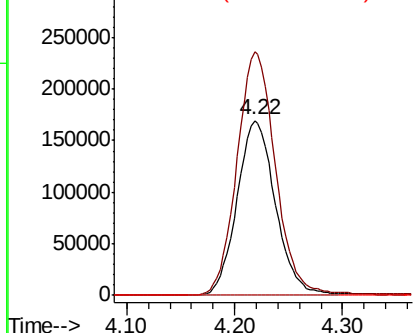
cis-1,2-Dichloroethene
 Concen: 24.822 ug/L
 RT: 4.22 min Scan# 973
 Delta R.T. 0.00 min
 Lab File: VU030997.D
 Acq: 10 Apr 2019 08:21

Instrument :
 MSVOA_U
 ClientSampleId :
 E3YD4DL

Tot Ion: 96 Resp: 420122
 Ion Ratio Lower Upper
 96 100
 61 139.4 98.9 183.7
 68 0.0 0.0 0.0



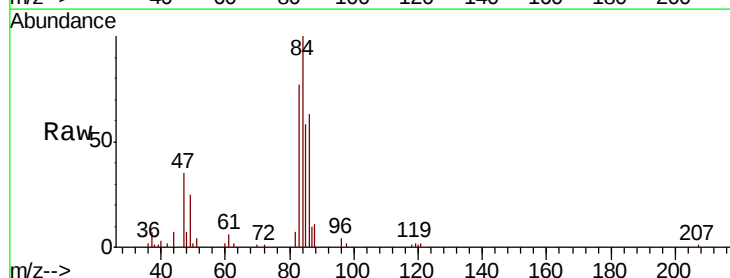
Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0



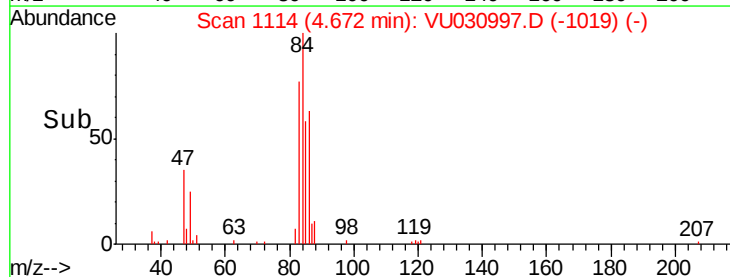
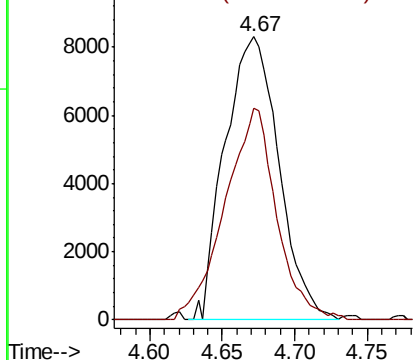
#25

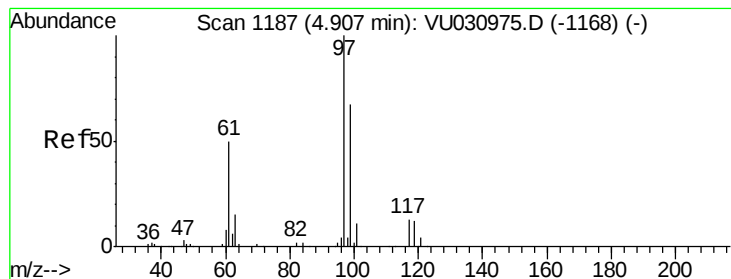
Chloroform
 Concen: 0.702 ug/L
 RT: 4.67 min Scan# 1114
 Delta R.T. 0.01 min
 Lab File: VU030997.D
 Acq: 10 Apr 2019 08:21

Tgt Ion: 83 Resp: 21488
 Ion Ratio Lower Upper
 83 100
 85 74.9 44.2 82.2



Abundance Ion 83.05 (82.75 to 83.75): VU0
 Ion 85.00 (84.70 to 85.70): VU0





#29

1,1,1-Trichloroethane

Concen: 57.086 ug/L

RT: 4.91 min Scan# 1187

Delta R.T. 0.00 min

Lab File: VU030997.D

Acq: 10 Apr 2019 08:21

Instrument :

MSVOA_U

ClientSampleId :

E3YD4DL

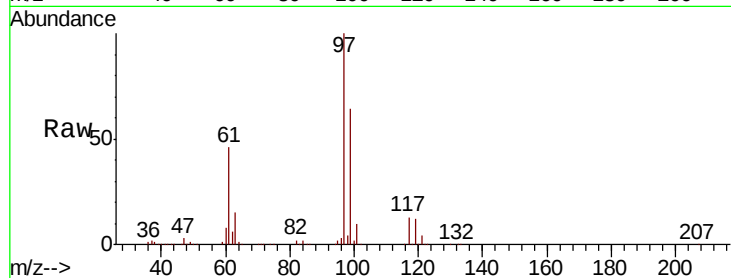
Tot Ion: 97 Resp: 1519087

Ion Ratio Lower Upper

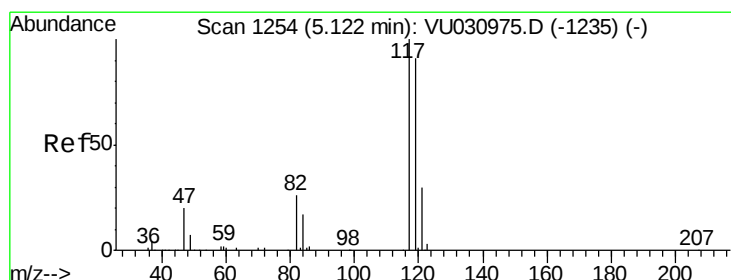
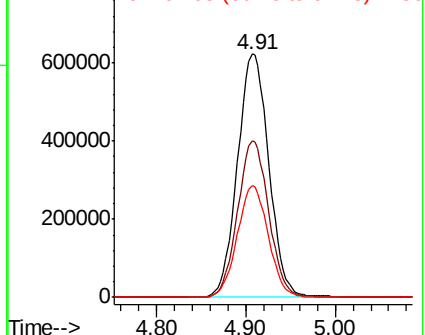
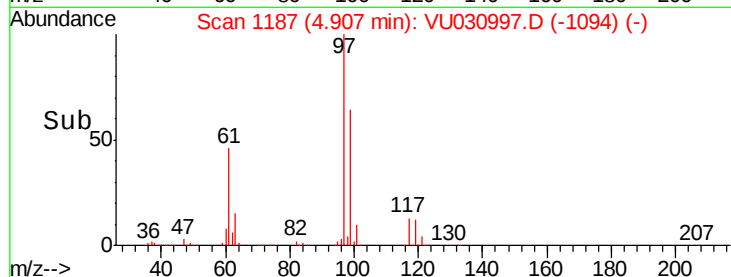
97 100

99 63.8 51.8 77.6

61 45.2 38.1 57.1



Abundance Ion 96.95 (96.65 to 97.65): VU030997.D (-1094) (-)



#31

Carbon tetrachloride

Concen: 8.555 ug/L

RT: 4.91 min Scan# 1188

Delta R.T. -0.21 min

Lab File: VU030997.D

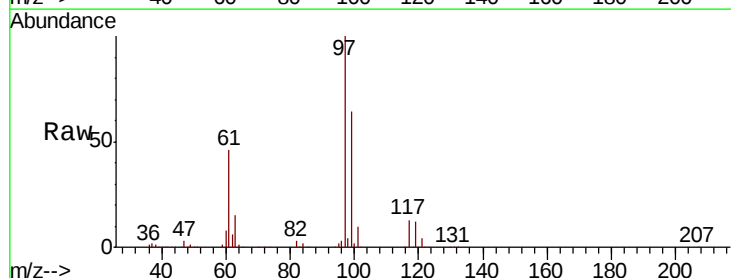
Acq: 10 Apr 2019 08:21

Tgt Ion: 117 Resp: 191130

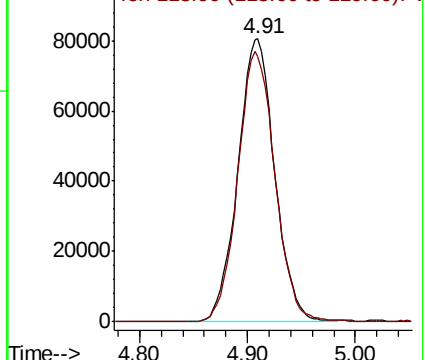
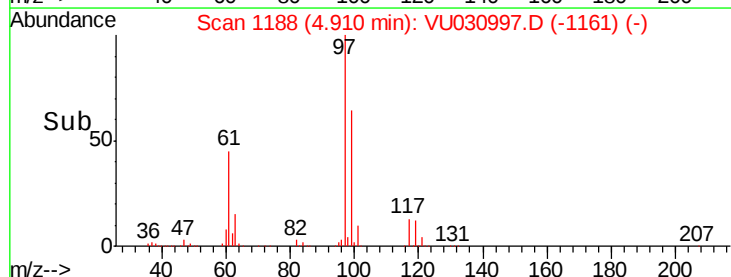
Ion Ratio Lower Upper

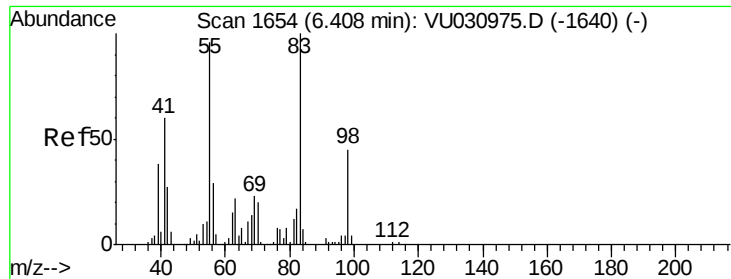
117 100

119 96.3 73.7 110.5



Abundance Ion 116.90 (116.60 to 117.60): VU030997.D (-1161) (-)

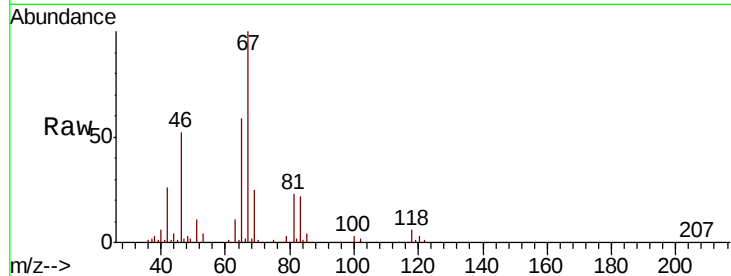




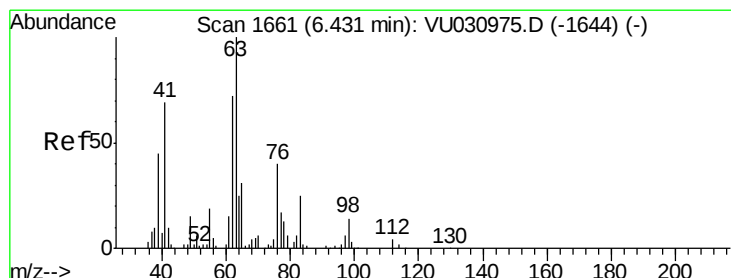
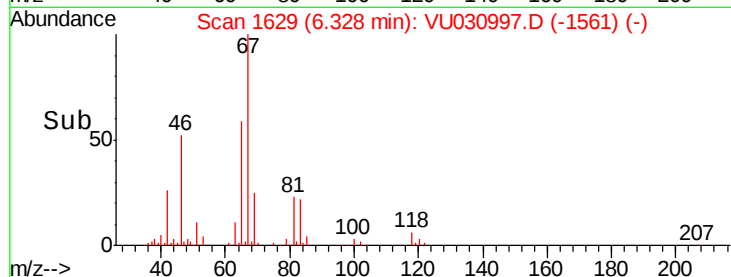
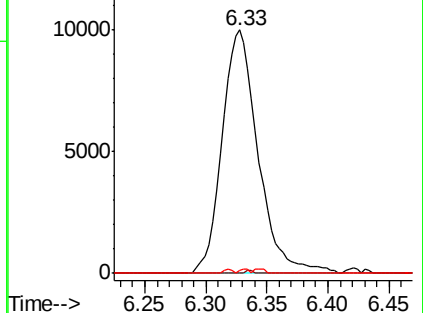
#35
Methvlcvclohexane
Concen: 0.729 ug/L
RT: 6.33 min Scan# 1629
Delta R.T. -0.08 min
Lab File: VU030997.D
Acq: 10 Apr 2019 08:21

Instrument :
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ClientSampleId :
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Tot Ion: 83 Resp: 20582
Ion Ratio Lower Upper
83 100
55 0.2 72.6 108.8#
98 0.4 35.0 52.6#

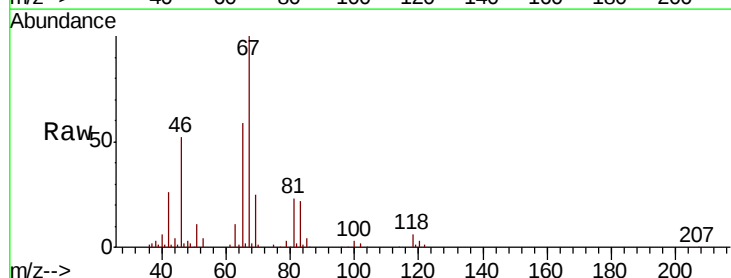


Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0

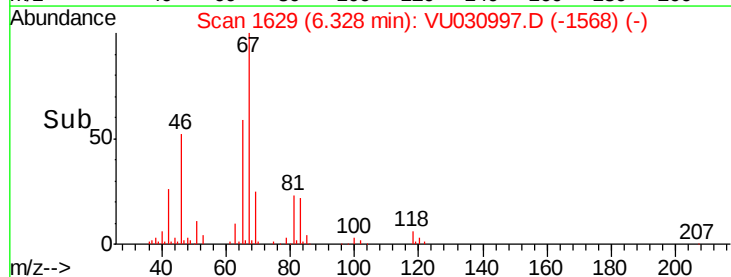
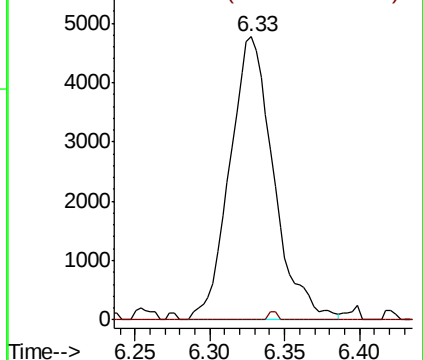


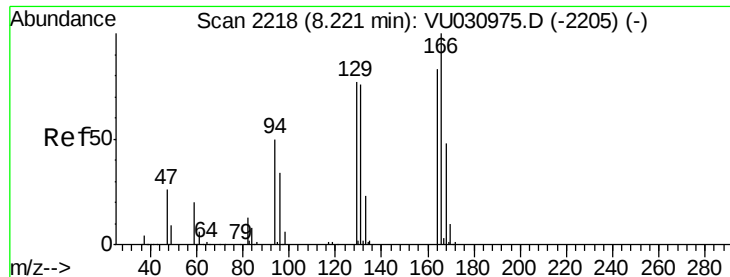
#37
1,2-Dichloropropane
Concen: 0.502 ug/L
RT: 6.33 min Scan# 1629
Delta R.T. -0.10 min
Lab File: VU030997.D
Acq: 10 Apr 2019 08:21

Tgt Ion: 63 Resp: 9755
Ion Ratio Lower Upper
63 100
112 0.5 2.8 4.2#



Abundance Ion 63.10 (62.80 to 63.80): VU0
Ion 112.10 (111.80 to 112.80): V

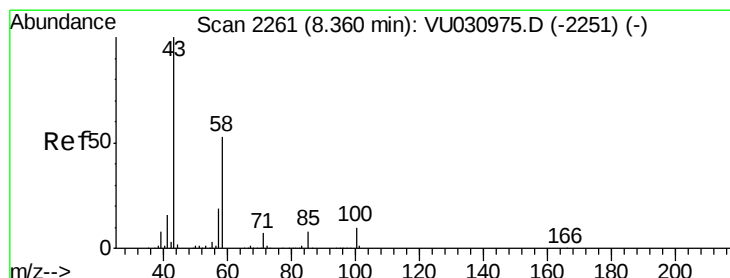
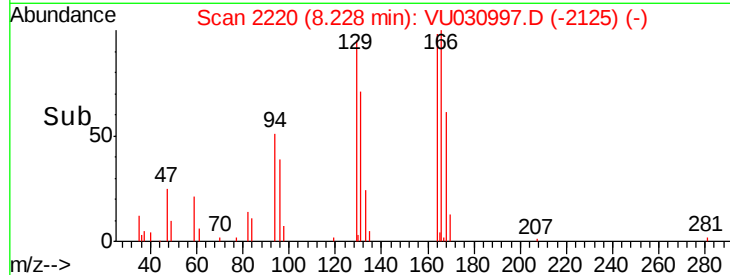
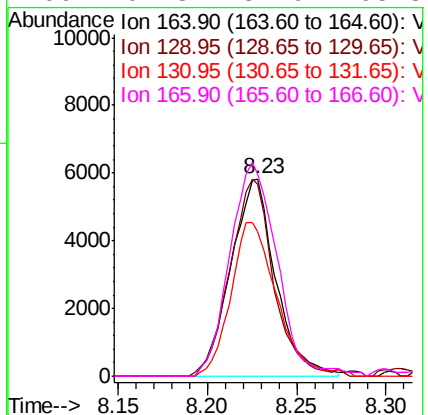
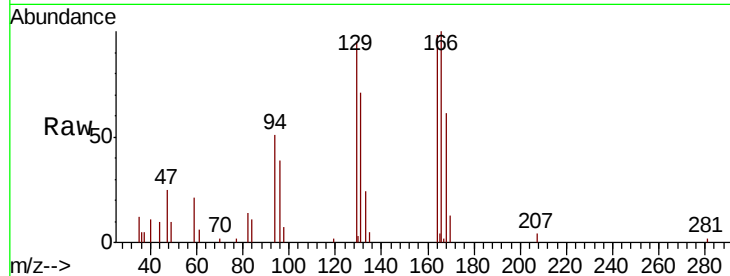




#47
Tetrachloroethene
Concen: 0.822 ug/L
RT: 8.23 min Scan# 2220
Delta R.T. 0.01 min
Lab File: VU030997.D
Acq: 10 Apr 2019 08:21

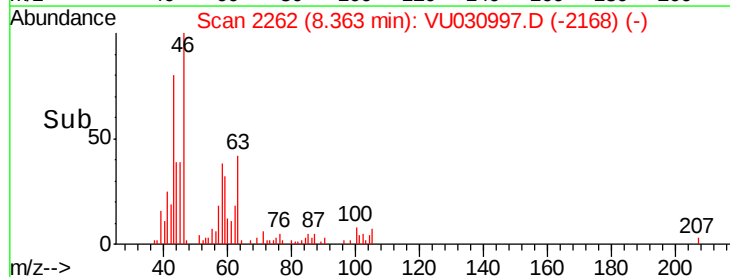
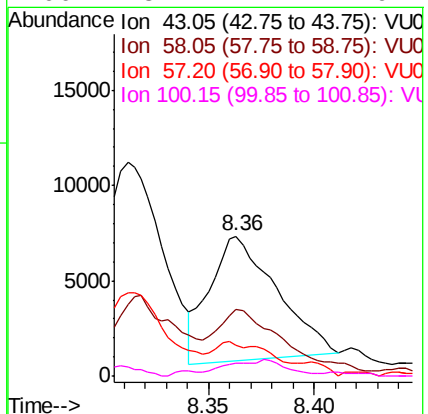
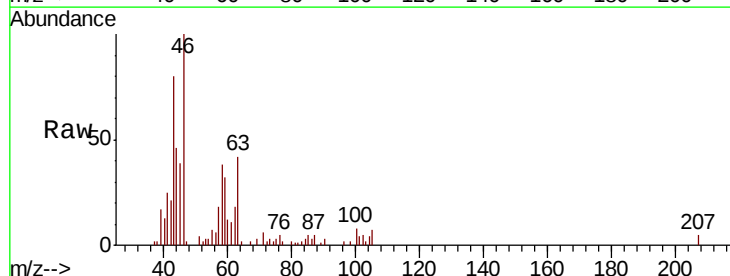
Instrument :
MSVOA_U
ClientSampleId :
E3YD4DL

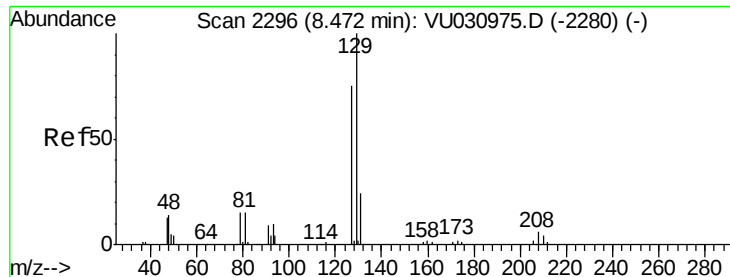
Tot Ion:164 Resp: 10200
Ion Ratio Lower Upper
164 100
129 97.1 70.1 130.1
131 73.1 67.8 125.8
166 102.3 87.9 163.3



#48
2-Hexanone
Concen: 1.718 ug/L
RT: 8.36 min Scan# 2262
Delta R.T. 0.00 min
Lab File: VU030997.D
Acq: 10 Apr 2019 08:21

Tgt Ion: 43 Resp: 14437
Ion Ratio Lower Upper
43 100
58 56.5 42.5 63.7
57 13.7 13.9 20.9#
100 5.1 7.1 10.7#





#49

Dibromochloromethane

Concen: 0.715 ug/L

RT: 8.22 min Scan# 2219

Delta R.T. -0.25 min

Lab File: VU030997.D

Acq: 10 Apr 2019 08:21

Instrument :

MSVOA_U

ClientSampleId :

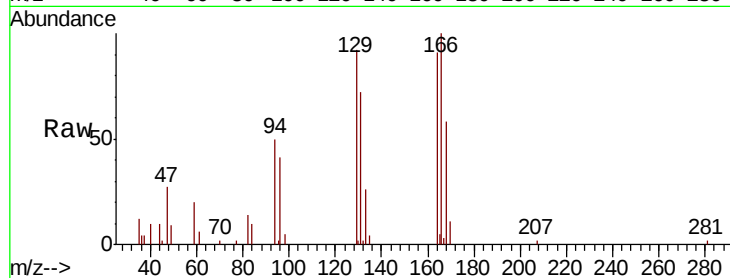
E3YD4DL

Tot Ion:129 Resp: 9920

Ion Ratio Lower Upper

129 100

127 0.0 51.1 94.9#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

8.22

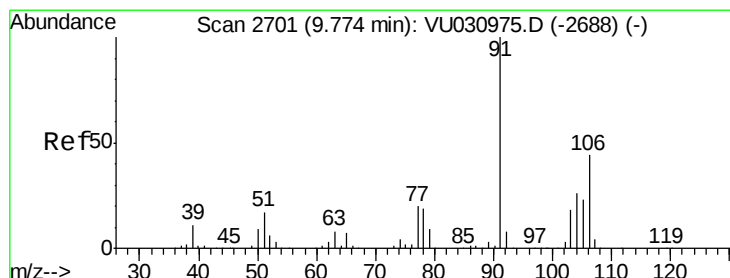
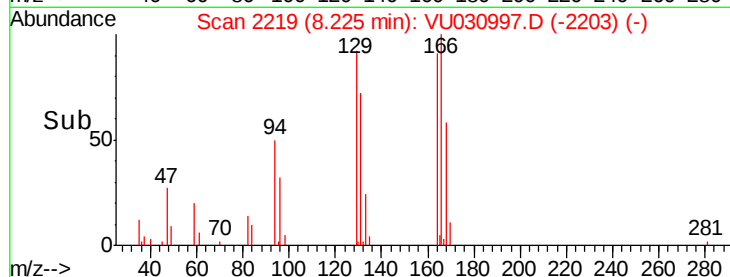
6000

4000

2000

0

Time--> 8.15 8.20 8.25 8.30



#54

o-Xylene

Concen: 0.408 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VU030997.D

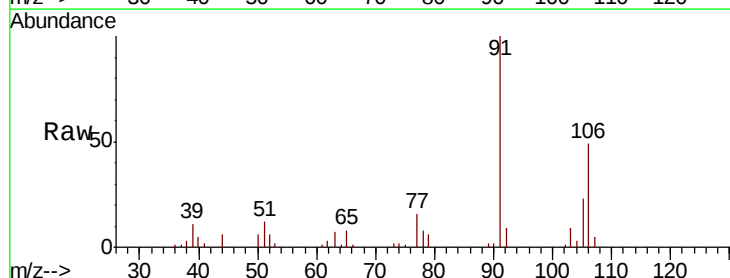
Acq: 10 Apr 2019 08:21

Tgt Ion:106 Resp: 10559

Ion Ratio Lower Upper

106 100

91 204.3 161.3 299.7



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0

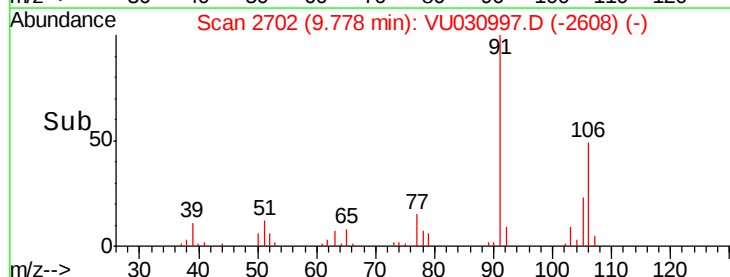
15000

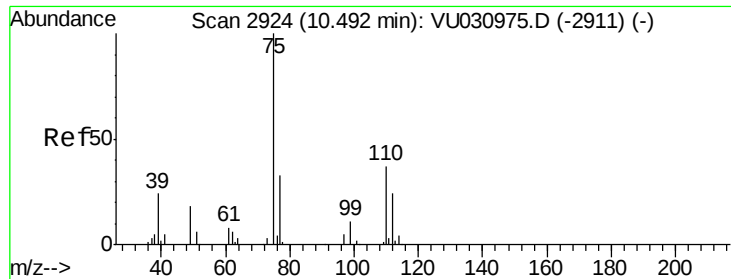
10000

5000

0

Time--> 9.75 9.80





#59

1,2,3-Trichloropropane

Concen: 0.900 ug/L

RT: 11.48 min Scan# 3232

Delta R.T. 0.99 min

Lab File: VU030997.D

Acq: 10 Apr 2019 08:21

Instrument :

MSVOA_U

ClientSampleId :

E3YD4DL

Tot Ion: 75 Resp: 9778

Ion Ratio Lower Upper

75 100

77 38.1 25.6 38.4

