

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U121019\
 Data File : VU036083.D
 Acq On : 10 Dec 2019 14:39
 Operator : JC/MD
 Sample : K6168-07DL 40X
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Dec 11 06:31:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR120919WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Dec 11 06:27:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	309582	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	348413	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	117020	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	147328	5.34	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	106.80%
7) Chloroethane-d5	1.93	69	134627	4.65	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	93.00%
11) 1,1-Dichloroethene-d2	2.59	63	168901	3.35	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	67.00%
20) 2-Butanone-d5	4.70	46	294064	62.54	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	125.08%
24) Chloroform-d	5.11	84	228082	5.09	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	101.80%
26) 1,2-Dichloroethane-d4	5.75	65	124140	5.35	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	107.00%
32) Benzene-d6	5.77	84	452498	5.13	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	102.60%
36) 1,2-Dichloropropane-d6	6.73	67	144898	5.45	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	109.00%
41) Toluene-d8	7.93	98	372717	4.58	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	91.60%
43) trans-1,3-Dichloropropene-	8.21	79	51857	4.68	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	93.60%
46) 2-Hexanone-d5	8.68	63	240419	59.94	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	119.88%
57) 1,1,2,2-Tetrachloroethane-	10.78	84	128811	5.27	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	105.40%
64) 1,2-Dichlorobenzene-d4	12.22	152	127554	5.67	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	113.40%

Target Compounds

					Ovalue
9) Trichlorofluoromethane	2.16	101	10516	0.195 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	12178	0.407 ug/L #	80
12) 1,1-Dichloroethene	2.61	96	22899	0.850 ug/L #	1
13) Acetone	2.68	43	27718	4.644 ug/L	98
16) Methylene chloride	3.08	84	8862	0.283 ug/L	93
19) 1,1-Dichloroethane	3.92	63	16089	0.390 ug/L	96
21) 2-Butanone	4.77	43	9148	1.531 ug/L	92
22) cis-1,2-Dichloroethene	4.72	96	98424	4.079 ug/L	98
25) Chloroform	5.14	83	17159	0.373 ug/L	90
29) 1,1,1-Trichloroethane	5.36	97	7890	0.201 ug/L	92
33) Benzene	5.82	78	11237	0.118 ug/L	100
34) Trichloroethene	6.58	95	461862	18.268 ug/L	98
35) Methylcyclohexane	6.73	83	35572	1.049 ug/L #	19
37) 1,2-Dichloropropane	6.73	63	15283	0.640 ug/L #	85
47) Tetrachloroethene	8.58	164	701402	29.180 ug/L	98
48) 2-Hexanone	8.73	43	11128	1.243 ug/L #	89
49) Dibromochloromethane	8.58	129	629963	25.236 ug/L #	12

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU121019\
Data File : VU036083.D
Acq On : 10 Dec 2019 14:39
Operator : JC/MD
Sample : K6168-07DL 40X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :

Quant Time: Dec 11 06:31:23 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR120919WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Dec 11 06:27:41 2019
Response via : Initial Calibration

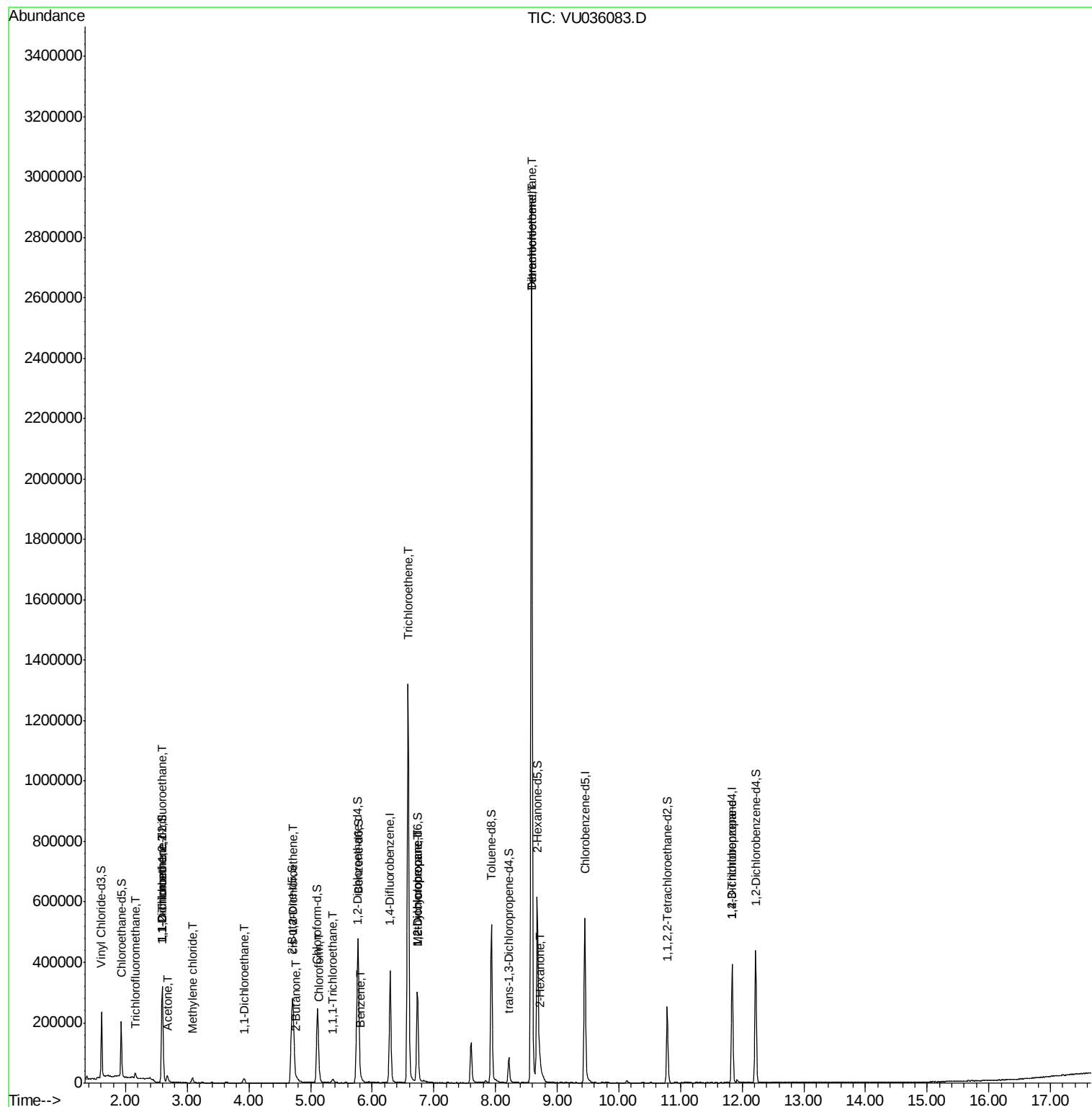
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
59) 1,2,3-Trichloropropane	11.84	75	13278	0.778	ug/L	97

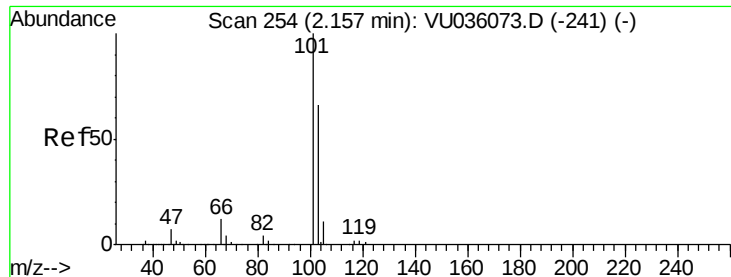
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU121019\
Data File : VU036083.D
Acq On : 10 Dec 2019 14:39
Operator : JC/MD
Sample : K6168-07DL 40X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :

Quant Time: Dec 11 06:31:23 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR120919WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Dec 11 06:27:41 2019
Response via : Initial Calibration



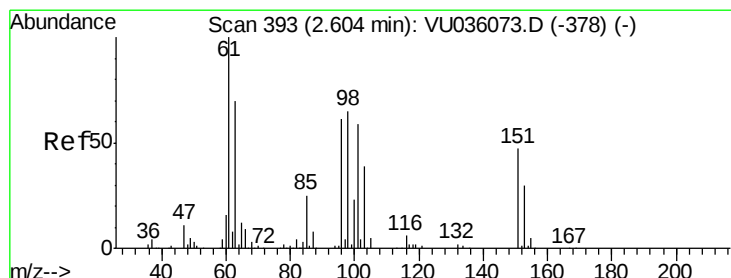
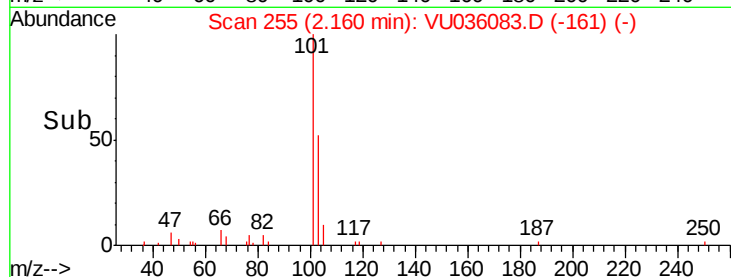
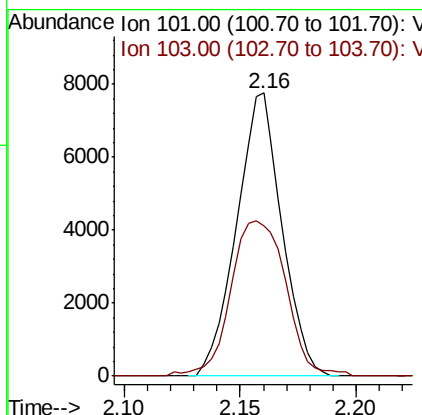
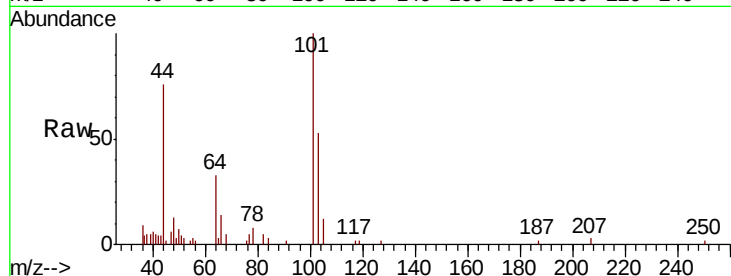


#9

Trichlorofluoromethane
 Concen: 0.195 ug/L
 RT: 2.16 min Scan# 255
 Delta R.T. 0.00 min
 Lab File: VU036083.D
 Acq: 10 Dec 2019 14:39

Instrument :
 MSVOA_U
 ClientSampleId :

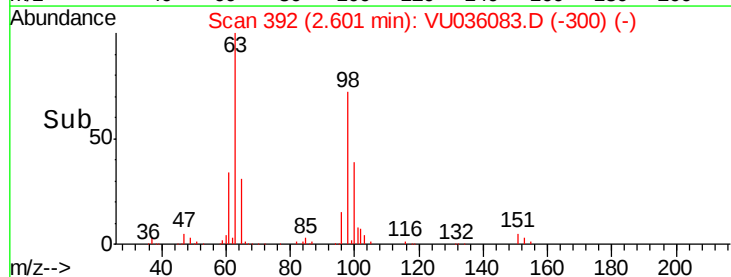
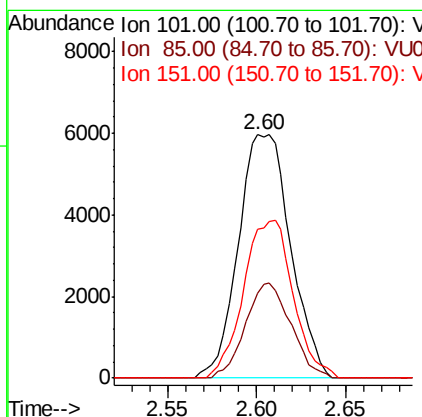
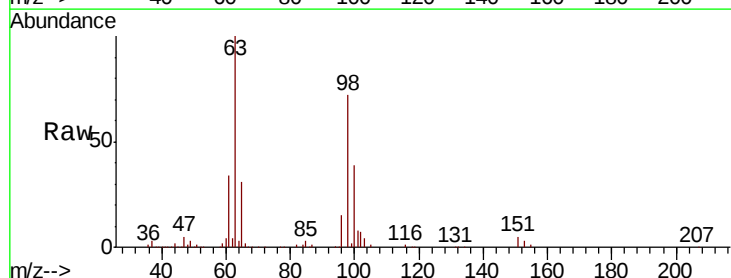
Tot Ion:101 Resp: 10516
 Ion Ratio Lower Upper
 101 100
 103 67.0 52.6 78.8

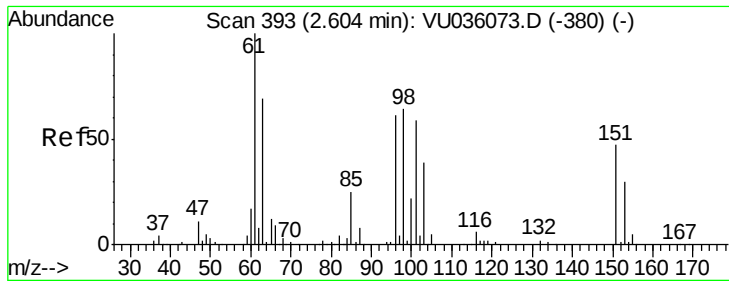


#10

1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.407 ug/L
 RT: 2.60 min Scan# 392
 Delta R.T. -0.00 min
 Lab File: VU036083.D
 Acq: 10 Dec 2019 14:39

Tgt Ion:101 Resp: 12178
 Ion Ratio Lower Upper
 101 100
 85 34.0 33.1 49.7
 151 61.6 66.5 99.7#





#12

1,1-Dichloroethene

Concen: 0.850 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU036083.D

Acq: 10 Dec 2019 14:39

Instrument :

MSVOA_U

ClientSampleId :

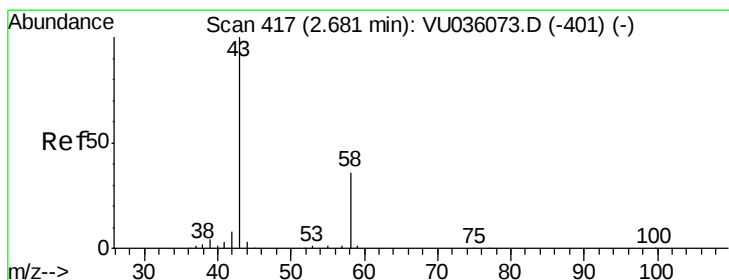
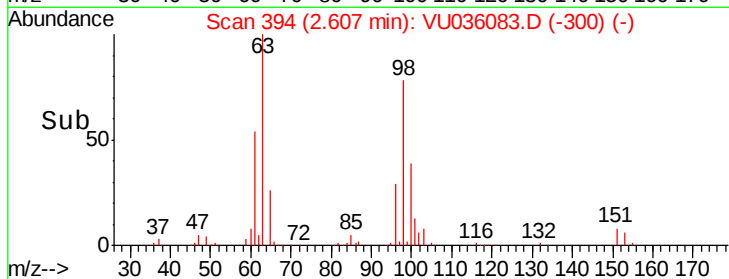
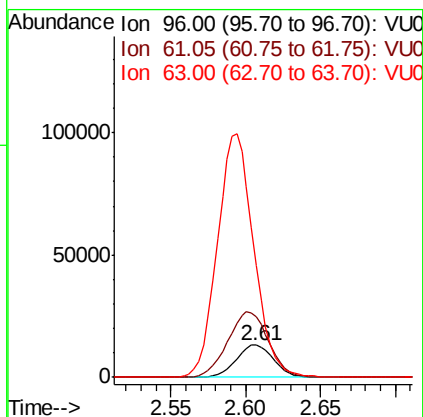
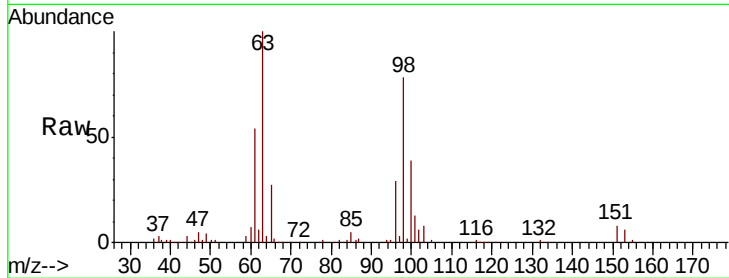
Tot Ion: 96 Resp: 22899

Ion Ratio Lower Upper

96 100

61 187.3 104.3 193.7

63 345.2 65.6 121.8#



#13

Acetone

Concen: 4.644 ug/L

RT: 2.68 min Scan# 416

Delta R.T. -0.00 min

Lab File: VU036083.D

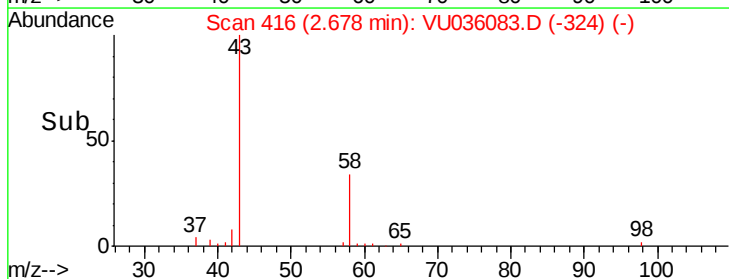
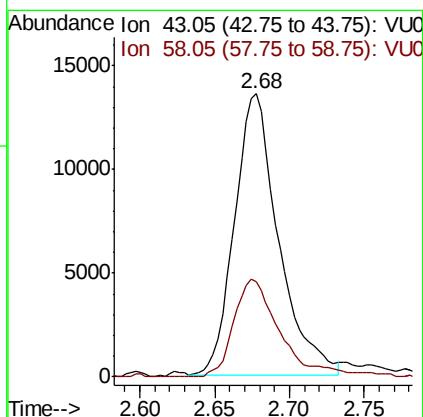
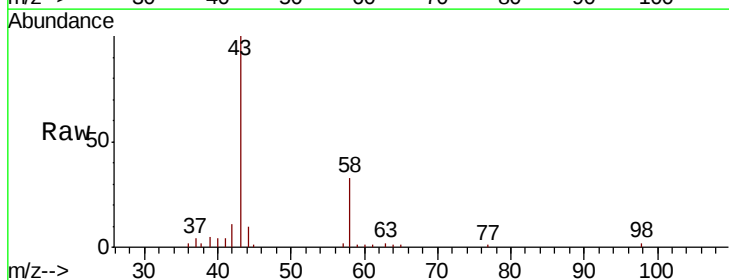
Acq: 10 Dec 2019 14:39

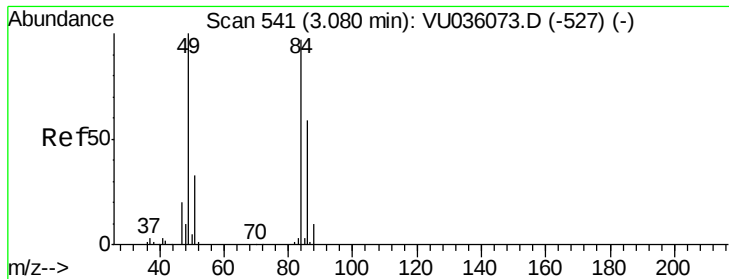
Tgt Ion: 43 Resp: 27718

Ion Ratio Lower Upper

43 100

58 35.9 0.0 74.2

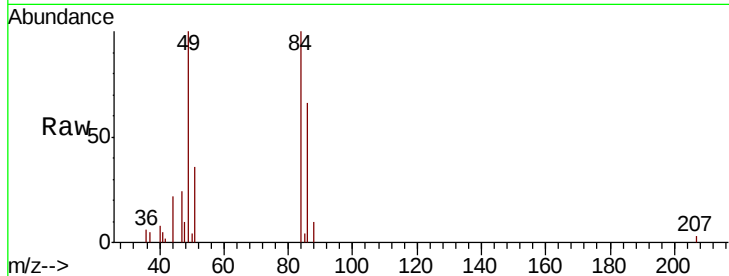




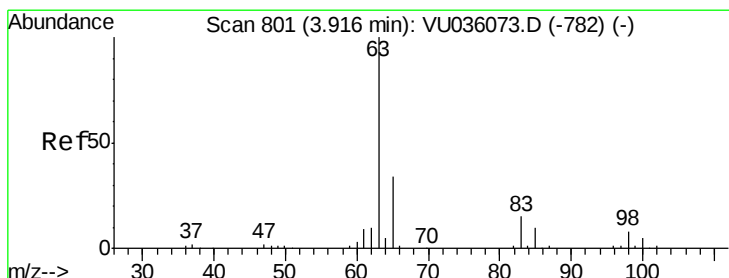
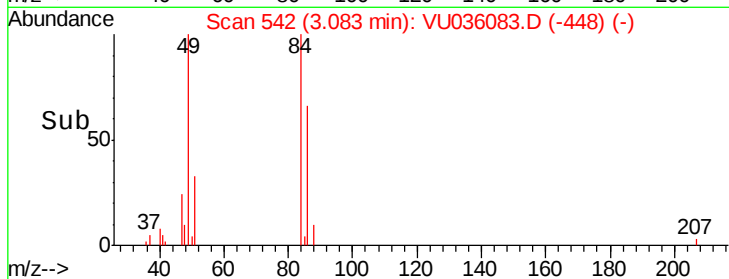
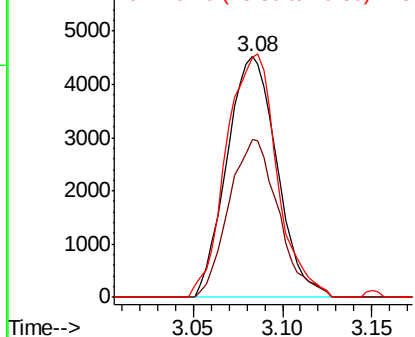
#16
Methvlene chloride
Concen: 0.283 ug/L
RT: 3.08 min Scan# 542
Delta R.T. 0.00 min
Lab File: VU036083.D
Acq: 10 Dec 2019 14:39

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 84 Resp: 8862
Ion Ratio Lower Upper
84 100
86 65.9 47.5 88.3
49 99.9 76.9 142.9

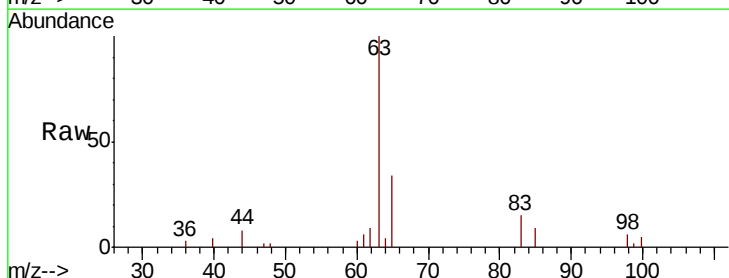


Abundance Ion 84.05 (83.75 to 84.75): VU0
Ion 86.00 (85.70 to 86.70): VU0
Ion 49.10 (48.80 to 49.80): VU0

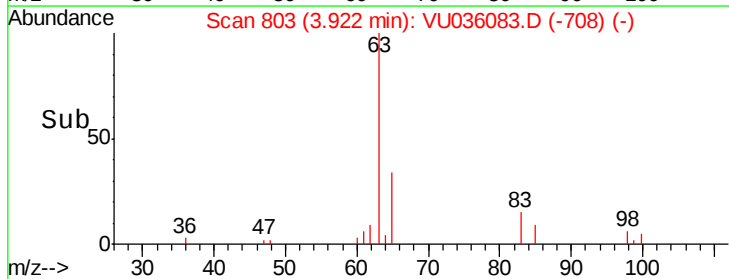
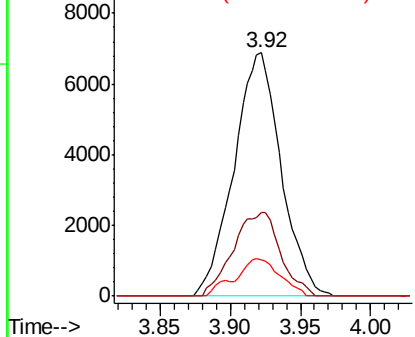


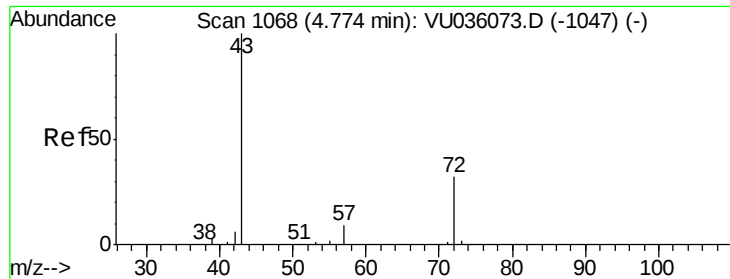
#19
1,1-Dichloroethane
Concen: 0.390 ug/L
RT: 3.92 min Scan# 803
Delta R.T. 0.01 min
Lab File: VU036083.D
Acq: 10 Dec 2019 14:39

Tgt Ion: 63 Resp: 16089
Ion Ratio Lower Upper
63 100
65 34.3 21.8 40.4
83 15.0 10.1 18.9



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





#21

2-Butanone

Concen: 1.531 ug/L

RT: 4.77 min Scan# 1068

Delta R.T. 0.00 min

Lab File: VU036083.D

Acq: 10 Dec 2019 14:39

Instrument :

MSVOA_U

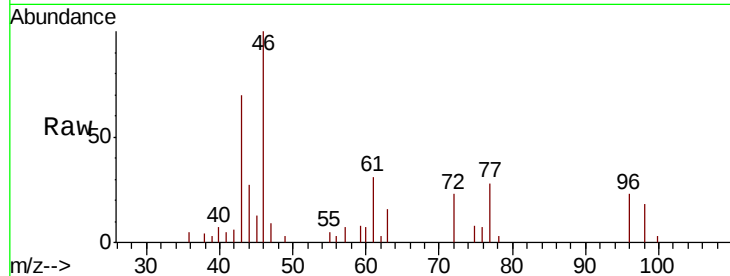
ClientSampleId :

Tot Ion: 43 Resp: 9148

Ion Ratio Lower Upper

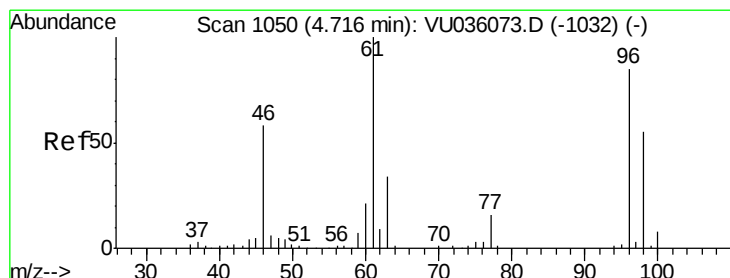
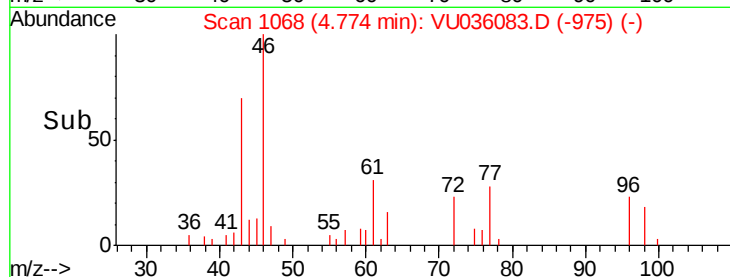
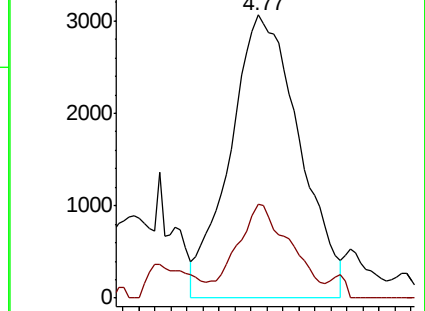
43 100

72 25.8 15.0 45.0



Abundance Ion 43.05 (42.75 to 43.75): VU036083.D (-975) (-)

Ion 72.10 (71.80 to 72.80): VU036083.D (-975) (-)



#22

cis-1,2-Dichloroethene

Concen: 4.079 ug/L

RT: 4.72 min Scan# 1051

Delta R.T. 0.00 min

Lab File: VU036083.D

Acq: 10 Dec 2019 14:39

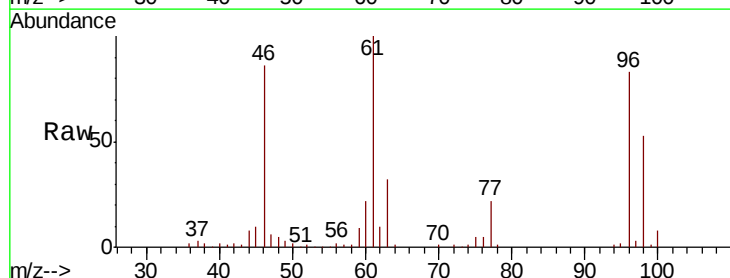
Tgt Ion: 96 Resp: 98424

Ion Ratio Lower Upper

96 100

61 121.0 83.0 154.2

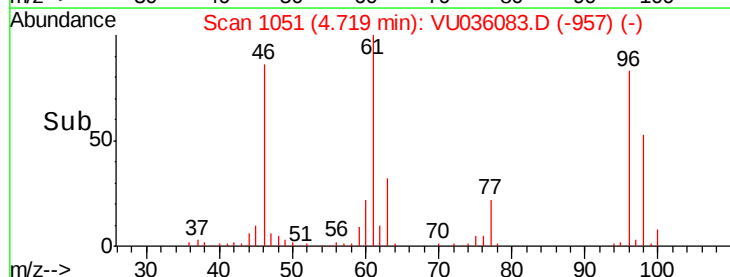
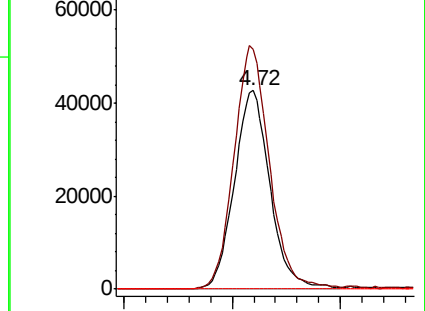
68 0.0 0.0 0.0

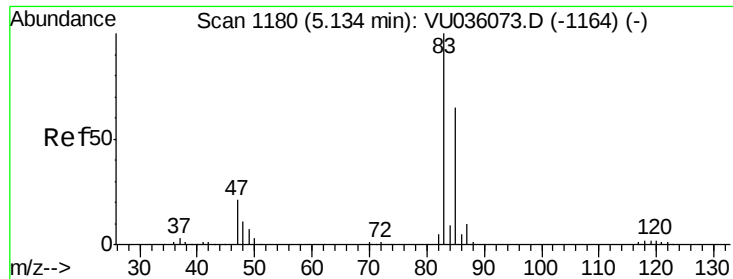


Abundance Ion 96.00 (95.70 to 96.70): VU036083.D (-957) (-)

Ion 61.05 (60.75 to 61.75): VU036083.D (-957) (-)

Ion 68.15 (67.85 to 68.85): VU036083.D (-957) (-)

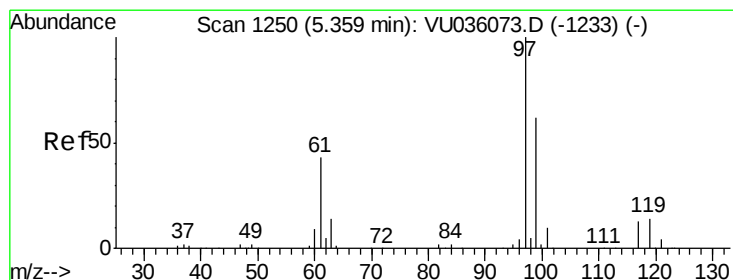
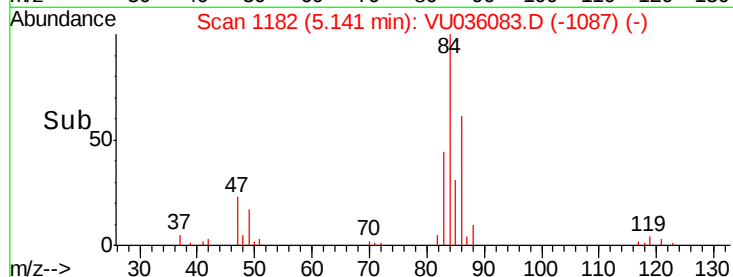
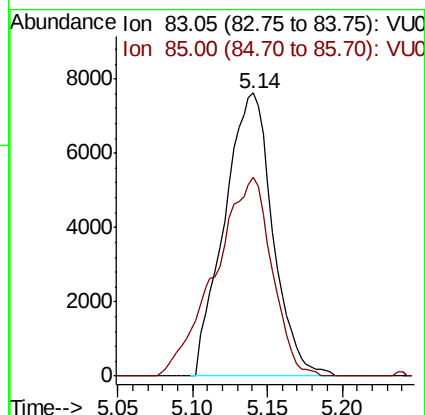
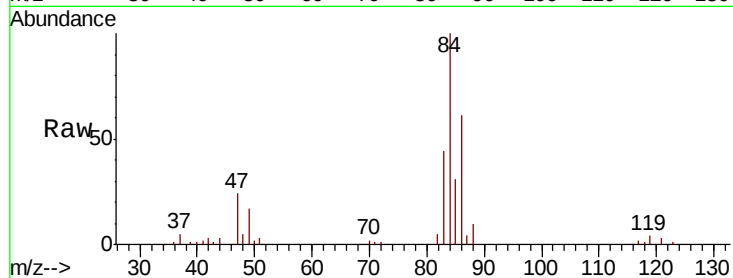




#25
Chloroform
Concen: 0.373 ug/L
RT: 5.14 min Scan# 1182
Delta R.T. 0.01 min
Lab File: VU036083.D
Acq: 10 Dec 2019 14:39

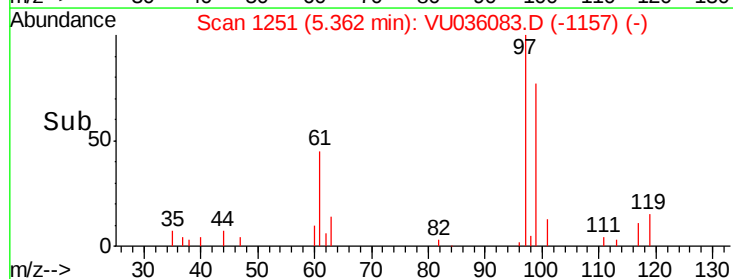
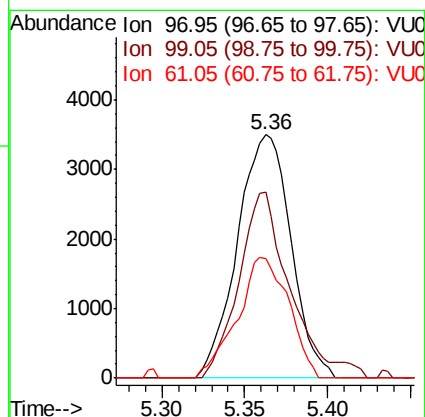
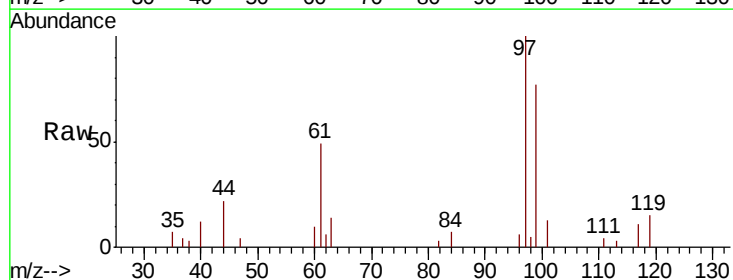
Instrument :
MSVOA_U
ClientSampleId :

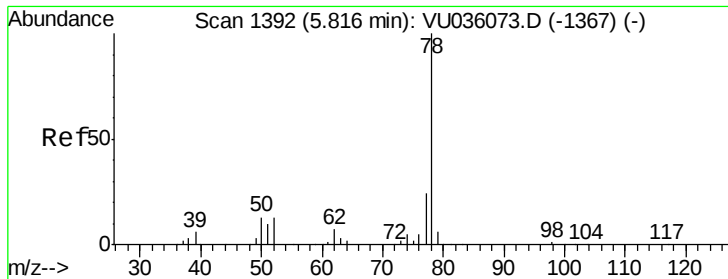
Tot Ion: 83 Resp: 17159
Ion Ratio Lower Upper
83 100
85 70.3 43.9 81.5



#29
1,1,1-Trichloroethane
Concen: 0.201 ug/L
RT: 5.36 min Scan# 1251
Delta R.T. 0.00 min
Lab File: VU036083.D
Acq: 10 Dec 2019 14:39

Tgt Ion: 97 Resp: 7890
Ion Ratio Lower Upper
97 100
99 73.0 52.2 78.2
61 47.4 34.7 52.1

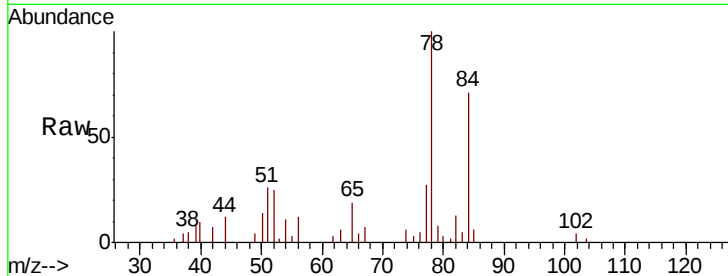




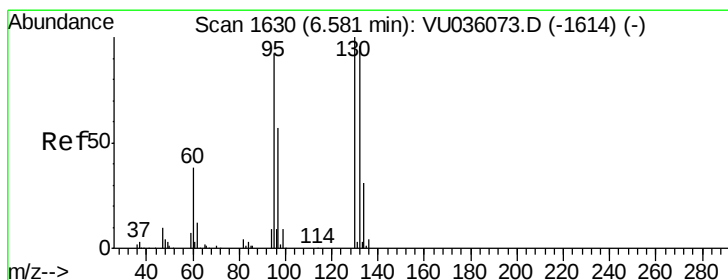
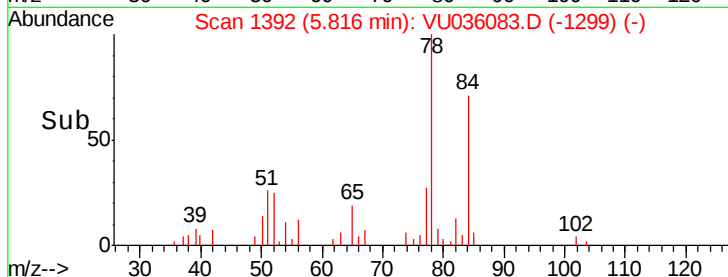
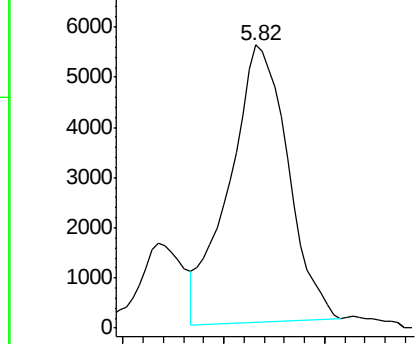
#33
Benzene
Concen: 0.118 ug/L
RT: 5.82 min Scan# 1392
Delta R.T. 0.00 min
Lab File: VU036083.D
Acq: 10 Dec 2019 14:39

Instrument :
MSVOA_U
ClientSampleId :

Tgt Ion: 78 Resp: 11237



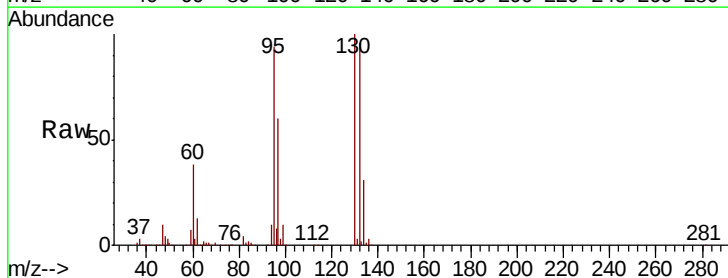
Abundance Ion 78.10 (77.80 to 78.80): VU0



#34
Trichloroethene
Concen: 18.268 ug/L
RT: 6.58 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VU036083.D
Acq: 10 Dec 2019 14:39

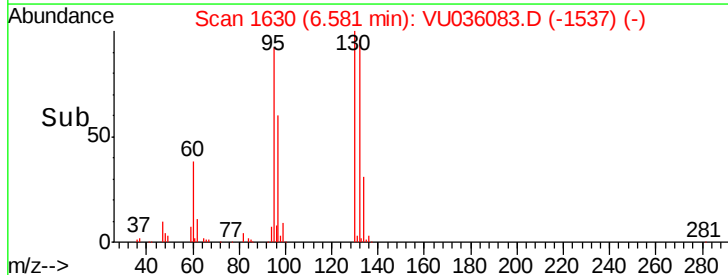
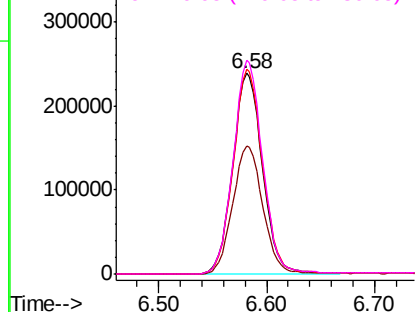
Tgt Ion: 95 Resp: 461862

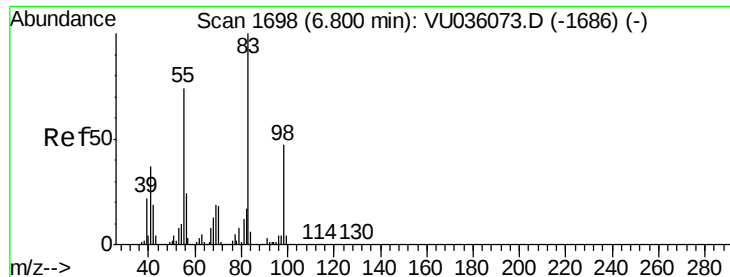
Ion	Ratio	Lower	Upper
95	100		
97	63.9	44.4	82.4
132	102.3	73.4	136.4
130	106.4	75.9	141.1



Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0
Ion 131.95 (131.65 to 132.65): V
Ion 129.95 (129.65 to 130.65): V

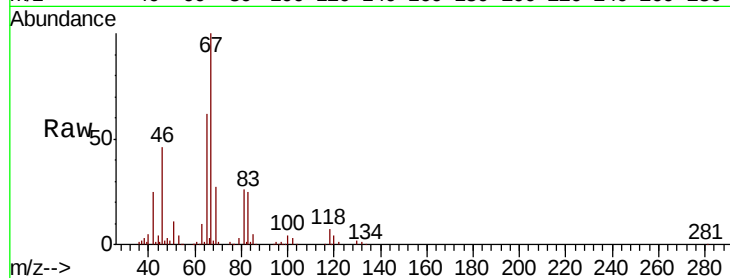




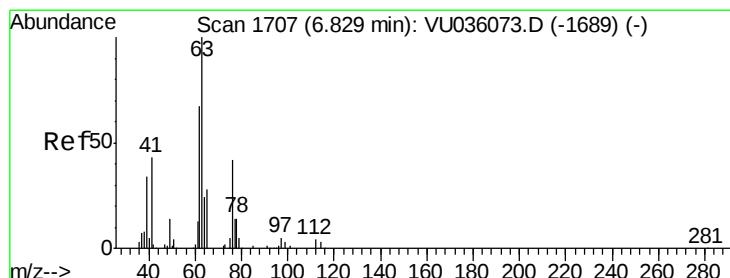
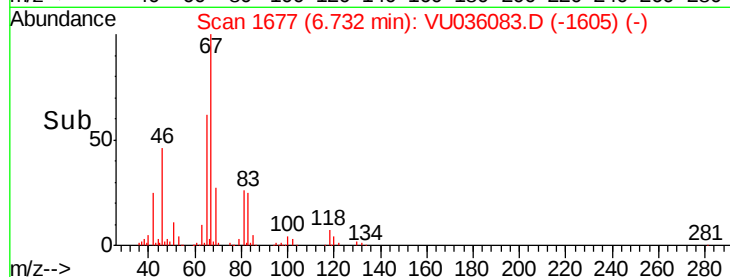
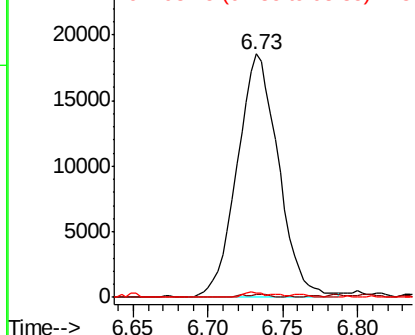
#35
Methylcyclohexane
Concen: 1.049 ug/L
RT: 6.73 min Scan# 1677
Delta R.T. -0.07 min
Lab File: VU036083.D
Acq: 10 Dec 2019 14:39

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 83 Resp: 35572
Ion Ratio Lower Upper
83 100
55 0.8 62.1 93.1#
98 1.2 37.0 55.4#

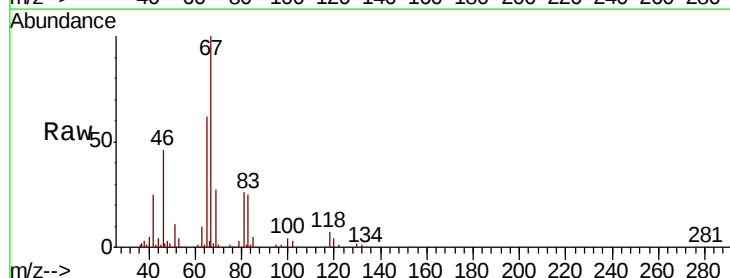


Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0

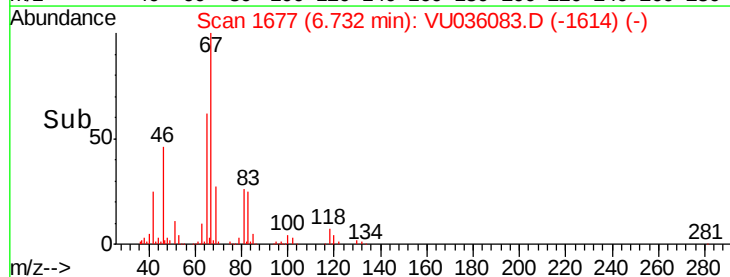
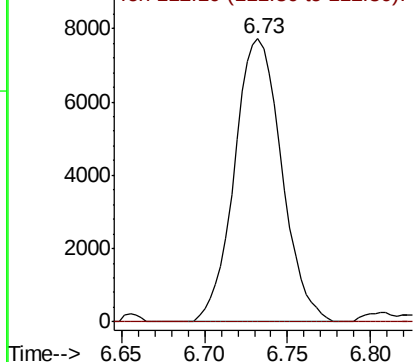


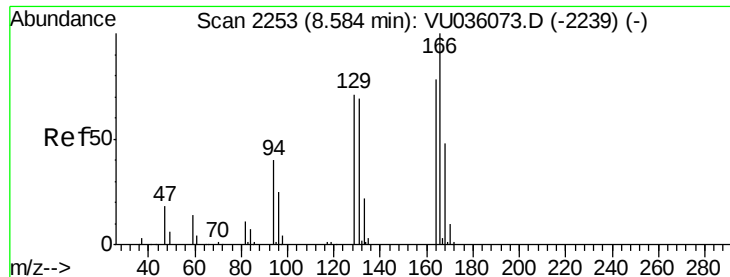
#37
1,2-Dichloropropane
Concen: 0.640 ug/L
RT: 6.73 min Scan# 1677
Delta R.T. -0.10 min
Lab File: VU036083.D
Acq: 10 Dec 2019 14:39

Tgt Ion: 63 Resp: 15283
Ion Ratio Lower Upper
63 100
112 0.0 3.8 5.8#



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





#47

Tetrachloroethene

Concen: 29.180 ug/L

RT: 8.58 min Scan# 2253

Delta R.T. 0.00 min

Lab File: VU036083.D

Acq: 10 Dec 2019 14:39

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:164 Resp: 701402

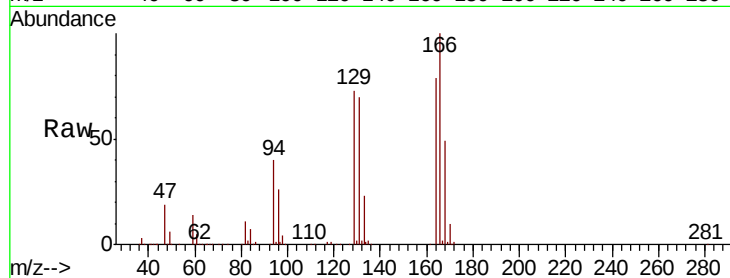
Ion Ratio Lower Upper

164 100

129 92.0 63.1 117.3

131 88.7 61.5 114.1

166 126.9 91.0 169.0

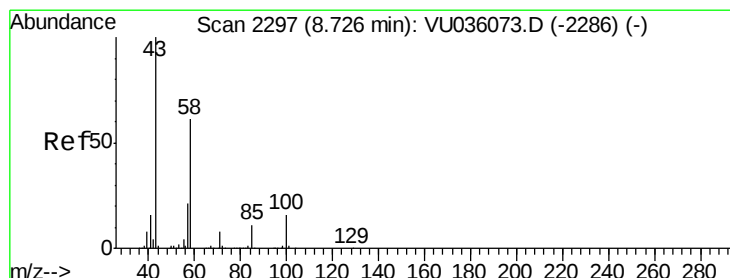
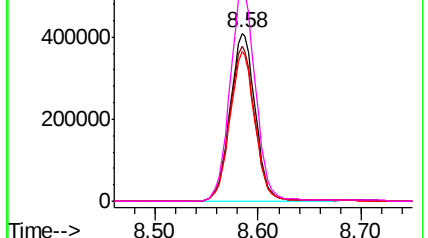
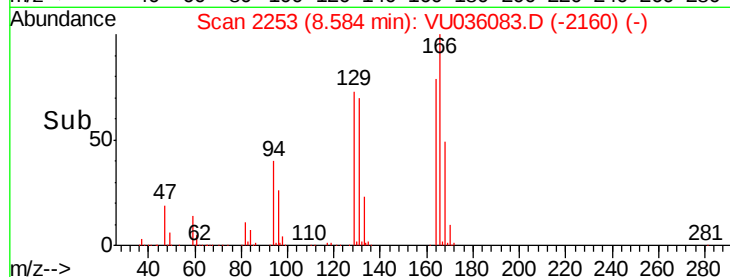


Abundance Ion 163.90 (163.60 to 164.60): V

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: 1.243 ug/L

RT: 8.73 min Scan# 2297

Delta R.T. 0.00 min

Lab File: VU036083.D

Acq: 10 Dec 2019 14:39

Tgt Ion: 43 Resp: 11128

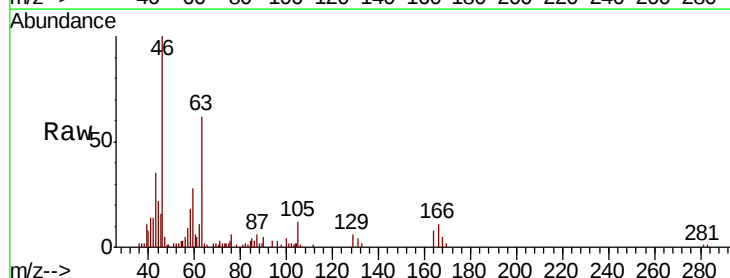
Ion Ratio Lower Upper

43 100

58 56.5 46.9 70.3

57 5.3 16.4 24.6#

100 7.1 11.0 16.4#

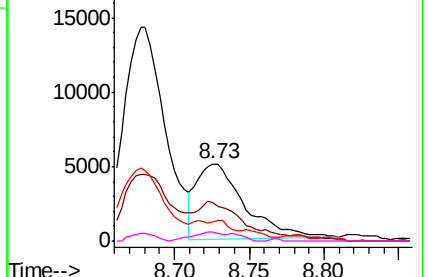
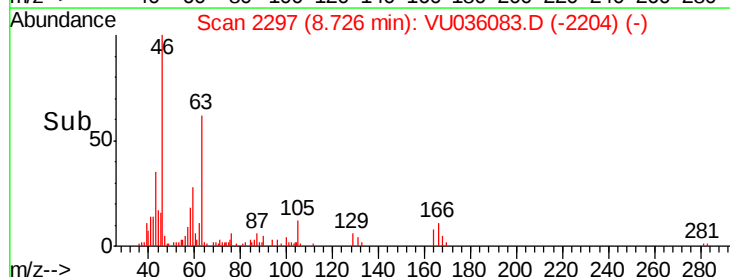


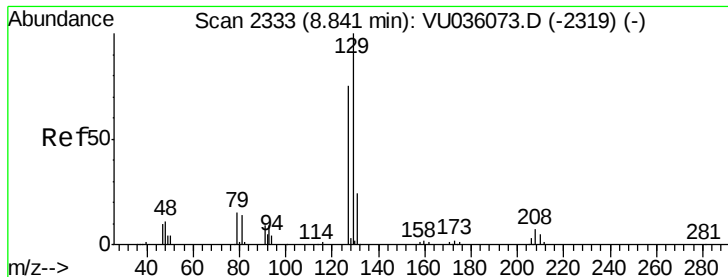
Abundance Ion 43.05 (42.75 to 43.75): VU0

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: 25.236 ug/L

RT: 8.58 min Scan# 2253

Delta R.T. -0.26 min

Lab File: VU036083.D

Acq: 10 Dec 2019 14:39

Instrument :

MSVOA_U

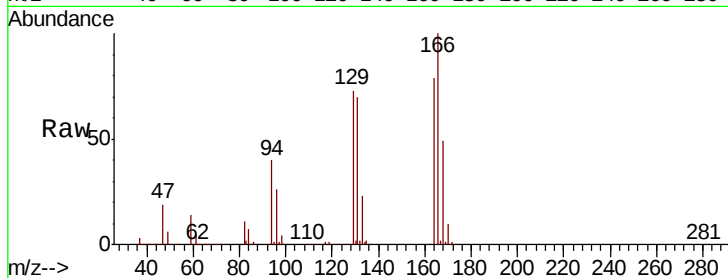
ClientSampleId :

Tot Ion:129 Resp: 629963

Ion Ratio Lower Upper

129 100

127 0.0 52.5 97.5#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

8.58

400000

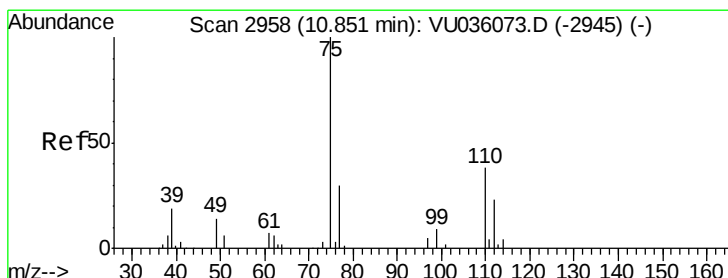
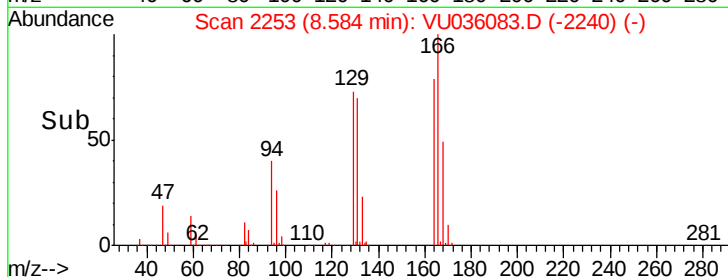
300000

200000

100000

0

Time-->



#59

1,2,3-Trichloropropane

Concen: 0.778 ug/L

RT: 11.84 min Scan# 3265

Delta R.T. 0.99 min

Lab File: VU036083.D

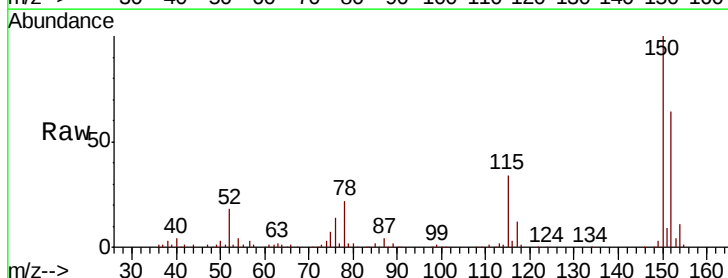
Acq: 10 Dec 2019 14:39

Tgt Ion: 75 Resp: 13278

Ion Ratio Lower Upper

75 100

77 35.2 26.7 40.1



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

11.84

8000

6000

4000

2000

0

Time-->

