

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU102219\
 Data File : VU035395.D
 Acq On : 23 Oct 2019 05:58
 Operator : JC/SP
 Sample : K5458-08
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 51 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Oct 23 08:16:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR101719WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Oct 23 08:10:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	236999	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	237242	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	84671	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	91602	6.34	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	126.80%
7) Chloroethane-d5	1.93	69	83212	6.30	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	126.00%
11) 1,1-Dichloroethene-d2	2.60	63	231686	8.67	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	173.40%#
20) 2-Butanone-d5	4.71	46	242534	58.40	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	116.80%
24) Chloroform-d	5.11	84	160137	6.06	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	121.20%
26) 1,2-Dichloroethane-d4	5.75	65	89952	6.15	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	123.00%
32) Benzene-d6	5.77	84	304377	5.61	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	112.20%
36) 1,2-Dichloropropane-d6	6.74	67	104568	6.07	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	121.40%
41) Toluene-d8	7.93	98	253444	4.88	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.60%
43) trans-1,3-Dichloropropene-	8.21	79	36610	4.38	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	87.60%
46) 2-Hexanone-d5	8.68	63	176938	47.99	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	95.98%
57) 1,1,2,2-Tetrachloroethane-	10.79	84	87783	5.72	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	114.40%
64) 1,2-Dichlorobenzene-d4	12.22	152	86009	5.58	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	111.60%

Target Compounds

					Ovalue
3) Chloromethane	1.54	50	3430	0.171 ug/L	99
5) Vinyl chloride	1.62	62	4663	0.227 ug/L #	1
12) 1,1-Dichloroethene	2.61	96	198465	13.035 ug/L	81
13) Acetone	2.68	43	5592	1.936 ug/L	96
16) Methylene chloride	3.08	84	3023	0.165 ug/L	92
17) Methyl tert-butyl Ether	3.43	73	11955	0.292 ug/L #	87
18) trans-1,2-Dichloroethene	3.39	96	9216	0.561 ug/L	90
19) 1,1-Dichloroethane	3.92	63	45777	1.540 ug/L	95
22) cis-1,2-Dichloroethene	4.72	96	267171	14.711 ug/L	99
25) Chloroform	5.14	83	7990	0.245 ug/L	93
29) 1,1,1-Trichloroethane	5.36	97	20211	0.727 ug/L	95
34) Trichloroethene	6.58	95	428114	22.812 ug/L	97
35) Methylcyclohexane	6.74	83	23873	0.761 ug/L #	19
37) 1,2-Dichloropropane	6.74	63	11741	0.663 ug/L #	87
39) cis-1,3-Dichloropropene	7.60	75	2507	0.085 ug/L #	55
45) 1,1,2-Trichloroethane	8.44	97	2620	0.199 ug/L	89
47) Tetrachloroethene	8.58	164	675680	43.217 ug/L	98

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Response via : Initial Calibration

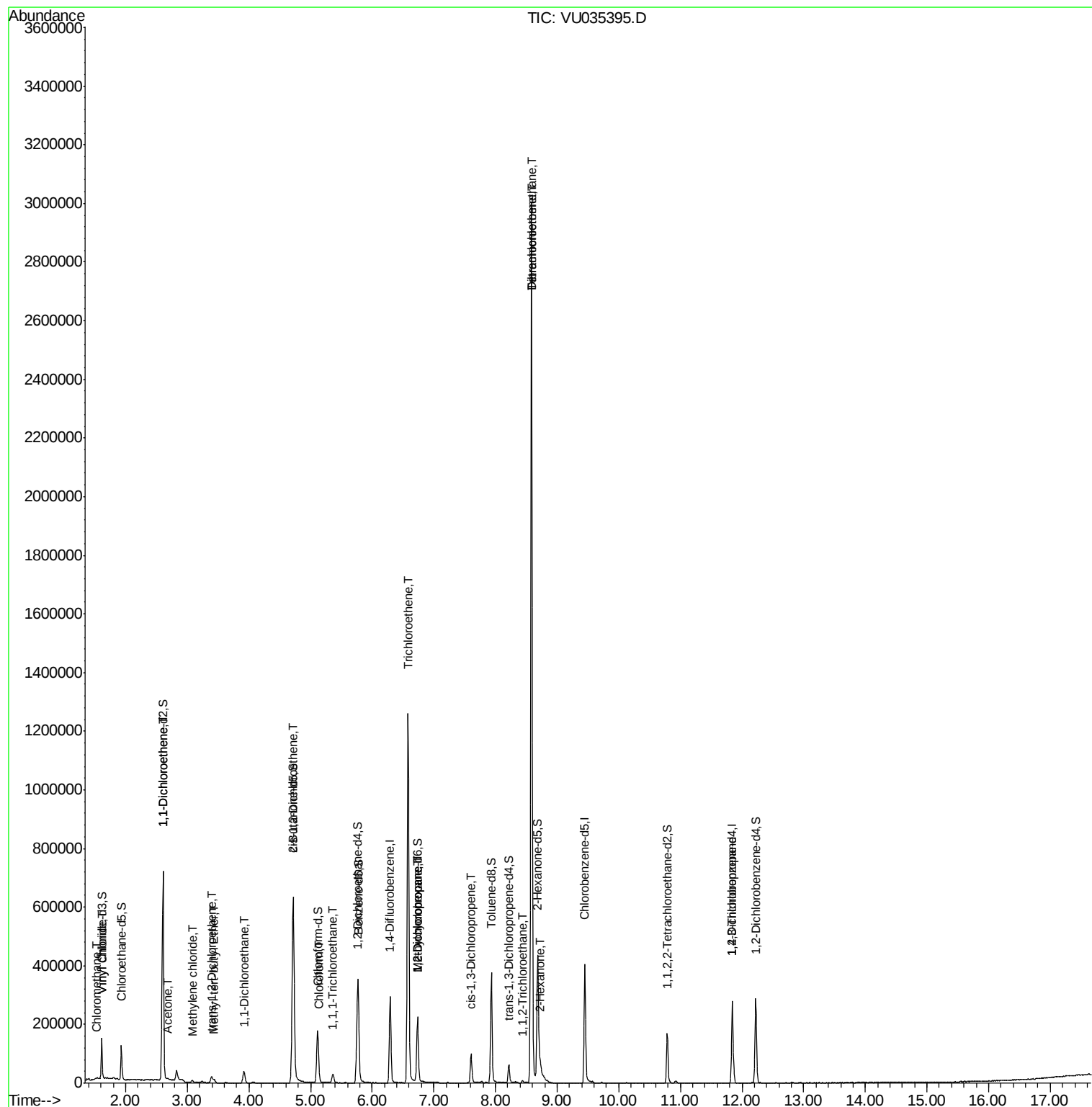
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 2-Hexanone	8.73	43	8329	0.993	ug/L #	82
49) Dibromochloromethane	8.58	129	608894	36.507	ug/L #	11
59) 1,2,3-Trichloropropane	11.84	75	10167	0.823	ug/L	91

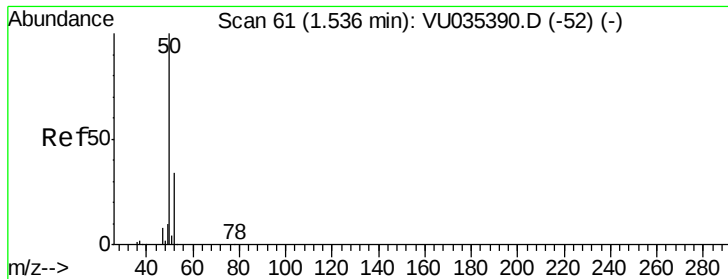
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#3

Chloromethane

Concen: 0.171 ug/L

RT: 1.54 min Scan# 61

Delta R.T. -0.00 min

Lab File: VU035395.D

Acq: 23 Oct 2019 05:58

Instrument :

MSVOA_U

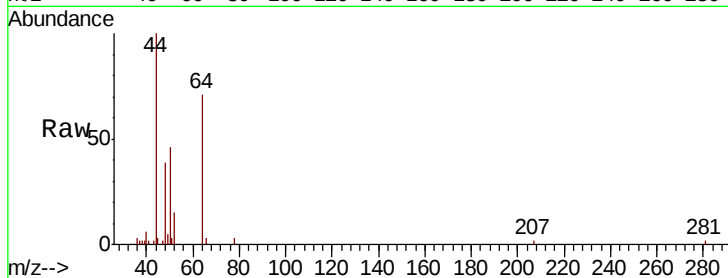
ClientSampleId :

Tot Ion: 50 Resp: 3430

Ion Ratio Lower Upper

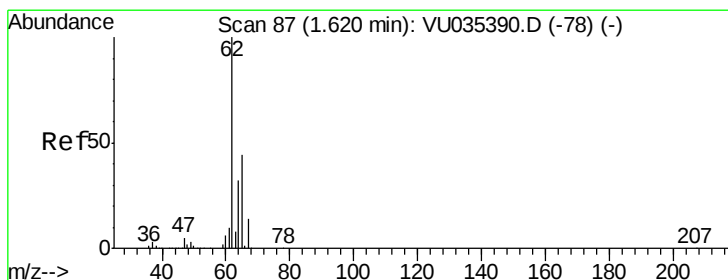
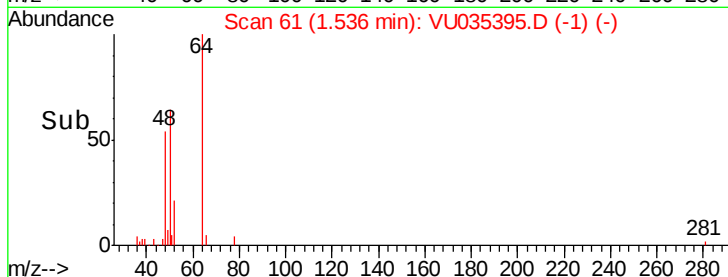
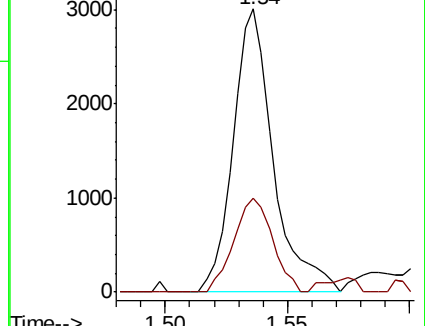
50 100

52 33.0 23.5 43.7



Abundance Ion 50.05 (49.75 to 50.75): VU035395.D (-52) (-)

Ion 52.05 (51.75 to 52.75): VU035395.D (-52) (-)



#5

Vinyl chloride

Concen: 0.227 ug/L

RT: 1.62 min Scan# 87

Delta R.T. -0.00 min

Lab File: VU035395.D

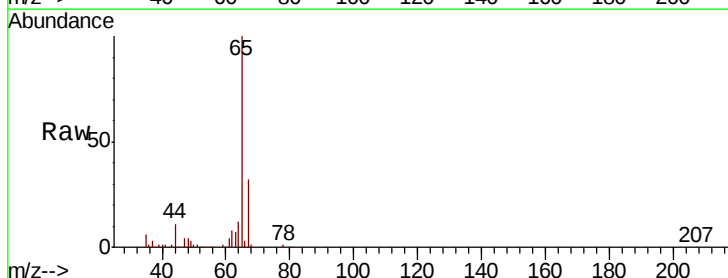
Acq: 23 Oct 2019 05:58

Tgt Ion: 62 Resp: 4663

Ion Ratio Lower Upper

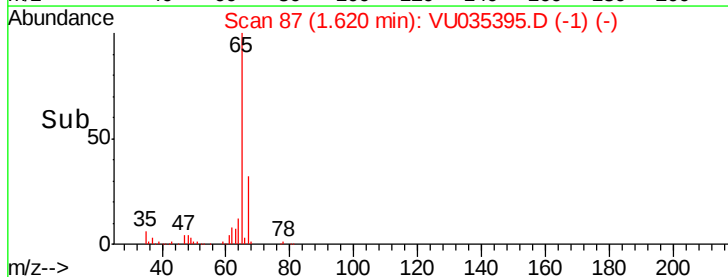
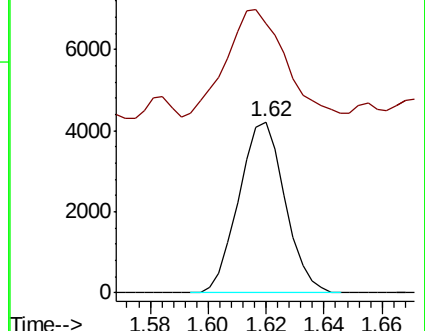
62 100

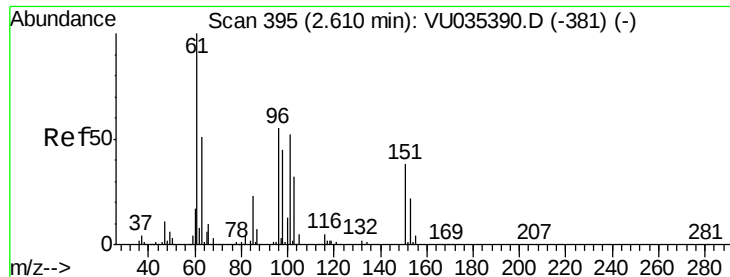
64 157.5 22.9 42.5#



Abundance Ion 62.00 (61.70 to 62.70): VU035395.D (-78) (-)

Ion 64.10 (63.80 to 64.80): VU035395.D (-78) (-)





#12

1,1-Dichloroethene

Concen: 13.035 ug/L

RT: 2.61 min Scan# 394

Delta R.T. -0.00 min

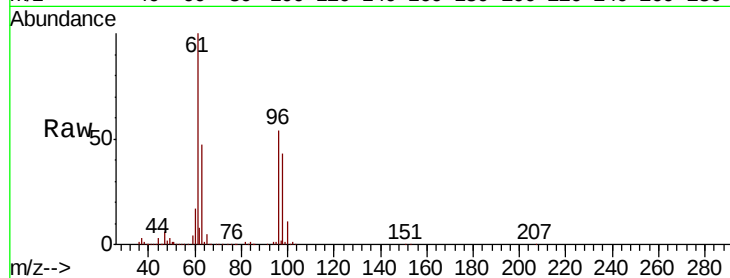
Lab File: VU035395.D

Acq: 23 Oct 2019 05:58

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 96 Resp: 198465

Ion	Ratio	Lower	Upper
96	100		
61	185.1	120.6	224.0
63	87.2	86.8	161.2

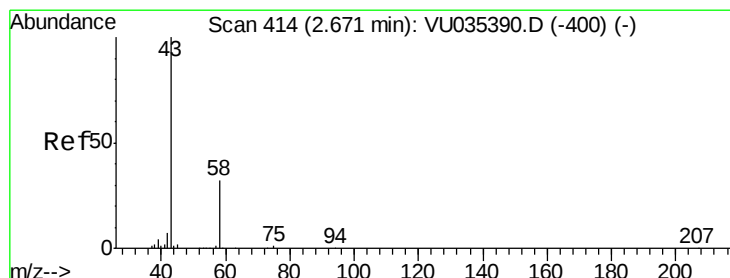
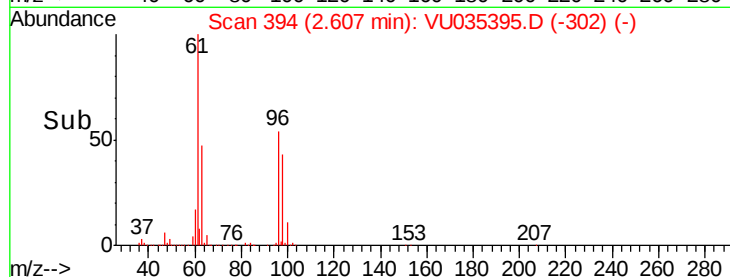
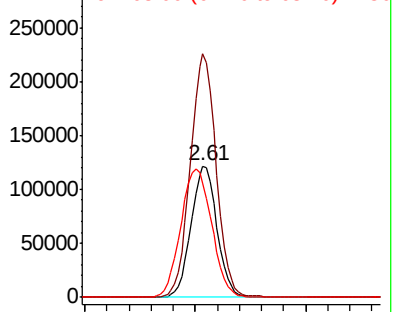


Abundance

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



#13

Acetone

Concen: 1.936 ug/L

RT: 2.68 min Scan# 417

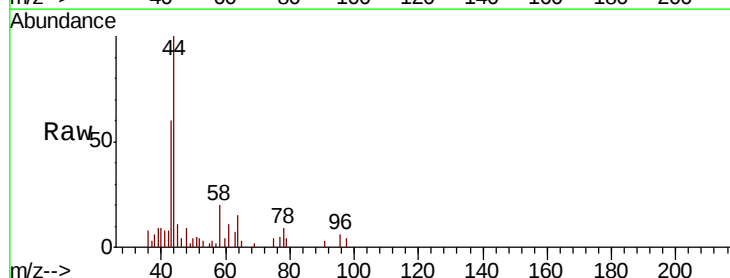
Delta R.T. 0.01 min

Lab File: VU035395.D

Acq: 23 Oct 2019 05:58

Tgt Ion: 43 Resp: 5592

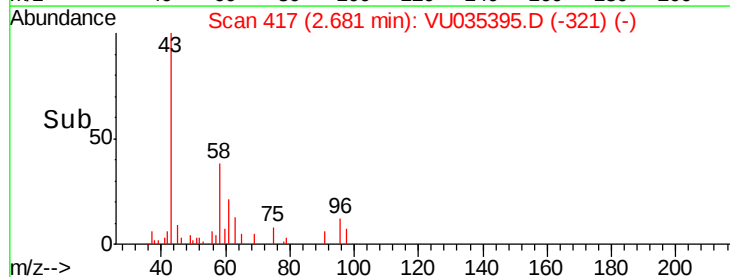
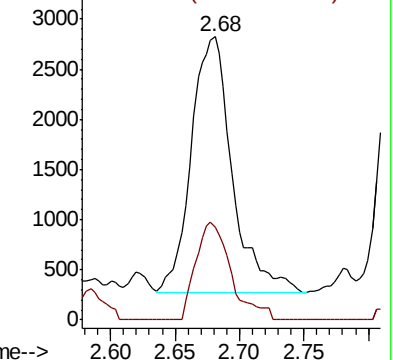
Ion	Ratio	Lower	Upper
43	100		
58	33.0	0.0	61.8

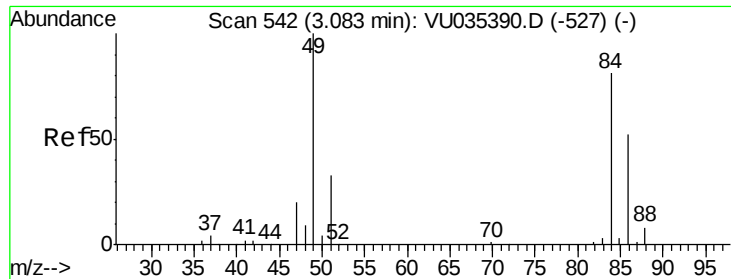


Abundance

Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

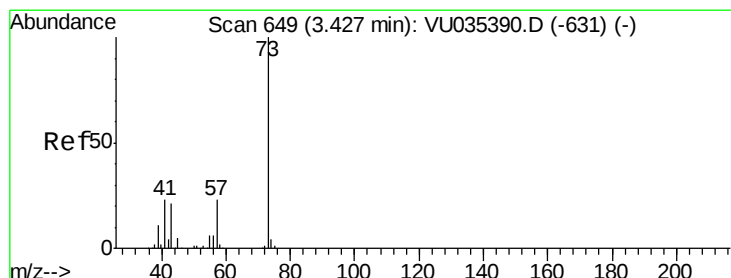
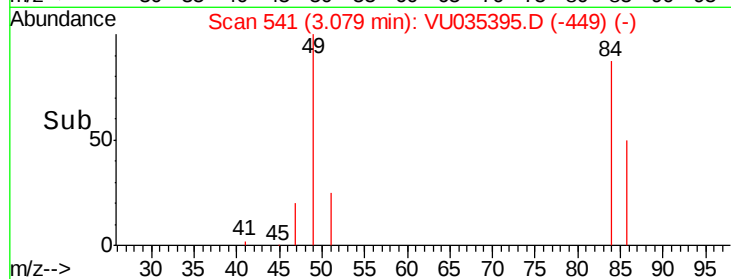
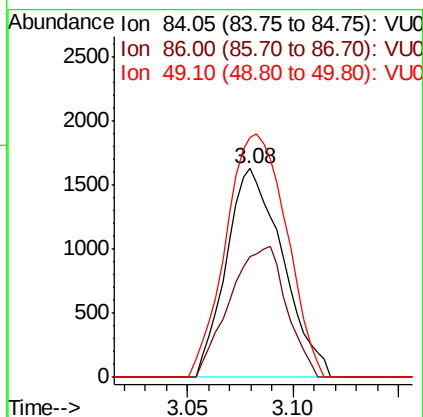
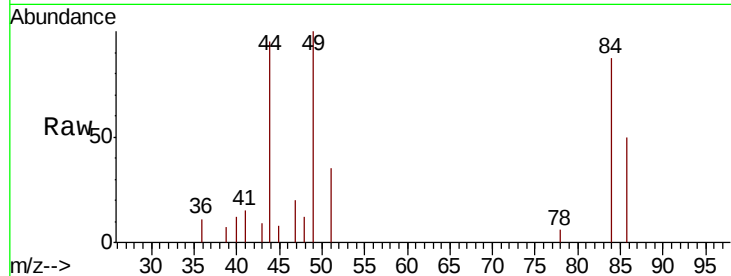




#16
Methvlene chloride
Concen: 0.165 ug/L
RT: 3.08 min Scan# 541
Delta R.T. -0.00 min
Lab File: VU035395.D
Acq: 23 Oct 2019 05:58

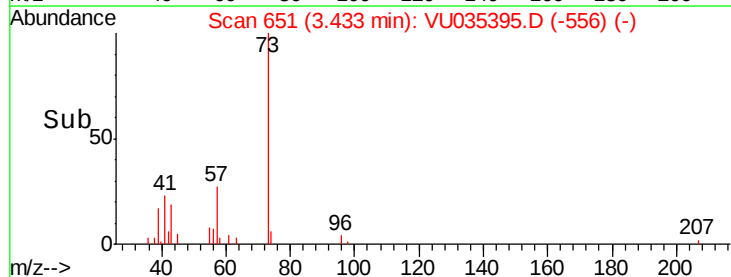
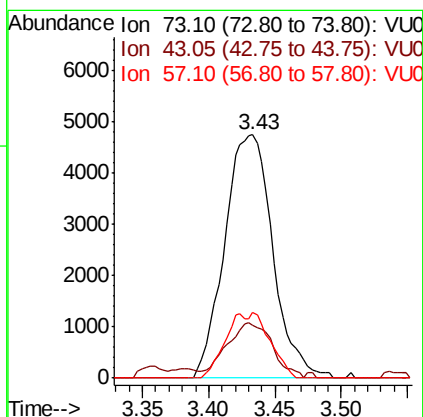
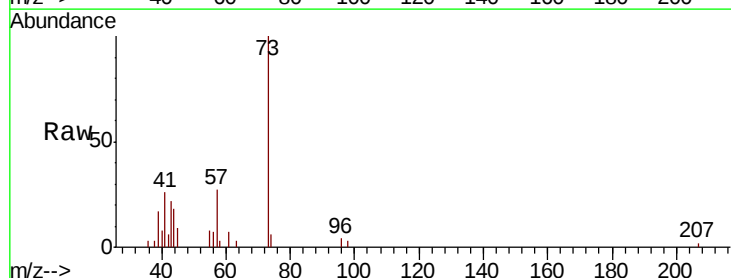
Instrument :
MSVOA_U
ClientSampleId :

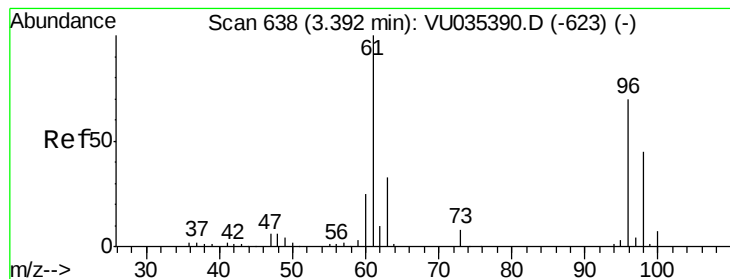
Tot Ion: 84 Resp: 3023
Ion Ratio Lower Upper
84 100
86 57.7 45.4 84.2
49 115.3 86.8 161.2



#17
Methyl tert-butyl Ether
Concen: 0.292 ug/L
RT: 3.43 min Scan# 651
Delta R.T. 0.01 min
Lab File: VU035395.D
Acq: 23 Oct 2019 05:58

Tgt Ion: 73 Resp: 11955
Ion Ratio Lower Upper
73 100
43 21.7 16.0 24.0
57 11.5 17.4 26.2#





#18

trans-1,2-Dichloroethene

Concen: 0.561 ug/L

RT: 3.39 min Scan# 638

Delta R.T. -0.00 min

Lab File: VU035395.D

Acq: 23 Oct 2019 05:58

Instrument :

MSVOA_U

ClientSampleId :

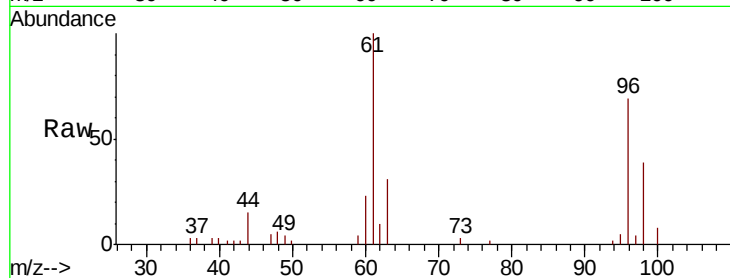
Tot Ion: 96 Resp: 9216

Ion Ratio Lower Upper

96 100

61 145.8 93.0 172.6

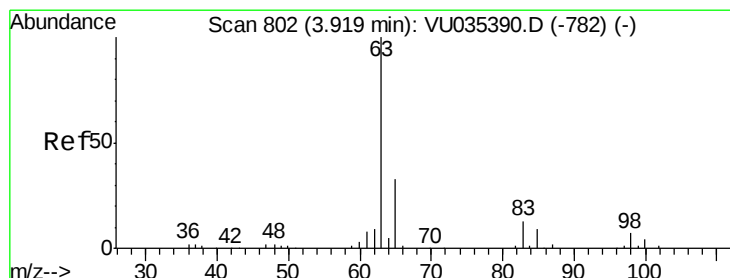
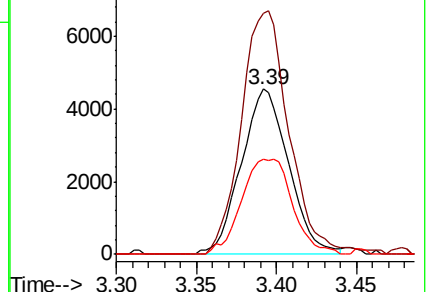
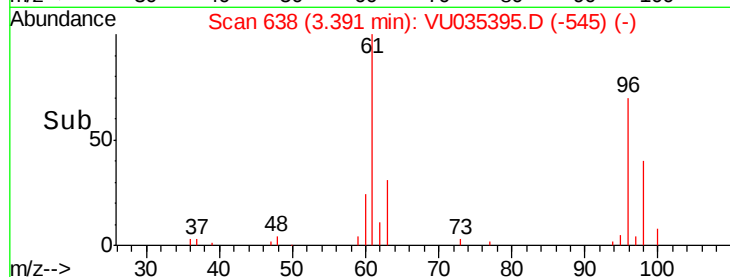
98 57.4 43.7 81.1



Abundance Ion 96.00 (95.70 to 96.70): VU035395.D (-545) (-)

Ion 61.05 (60.75 to 61.75): VU035395.D (-545) (-)

Ion 97.95 (97.65 to 98.65): VU035395.D (-545) (-)



#19

1,1-Dichloroethane

Concen: 1.540 ug/L

RT: 3.92 min Scan# 802

Delta R.T. -0.00 min

Lab File: VU035395.D

Acq: 23 Oct 2019 05:58

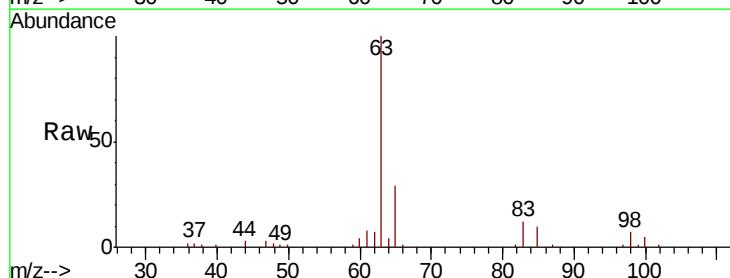
Tgt Ion: 63 Resp: 45777

Ion Ratio Lower Upper

63 100

65 29.0 22.4 41.6

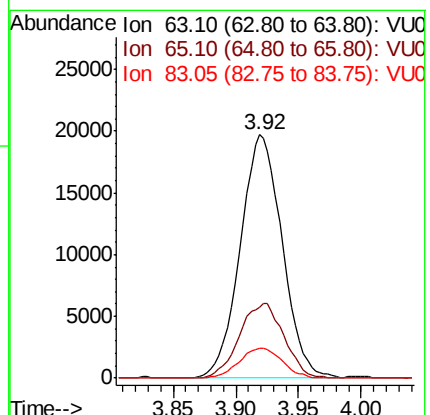
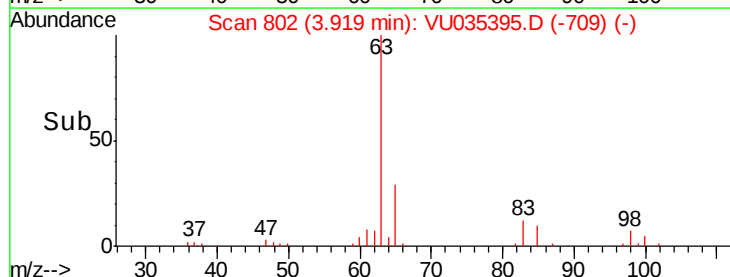
83 12.3 9.3 17.3

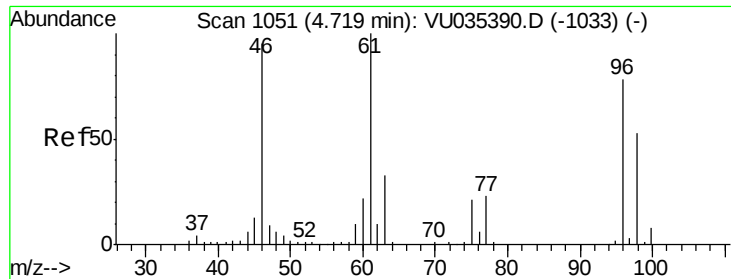


Abundance Ion 63.10 (62.80 to 63.80): VU035395.D (-709) (-)

Ion 65.10 (64.80 to 65.80): VU035395.D (-709) (-)

Ion 83.05 (82.75 to 83.75): VU035395.D (-709) (-)





#22

cis-1,2-Dichloroethene

Concen: 14.711 ug/L

RT: 4.72 min Scan# 1051

Delta R.T. -0.00 min

Lab File: VU035395.D

Acq: 23 Oct 2019 05:58

Instrument :
MSVOA_U
ClientSampled :

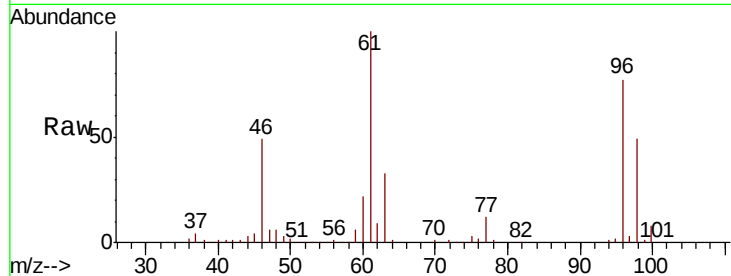
Tot Ion: 96 Resp: 267171

Ion Ratio Lower Upper

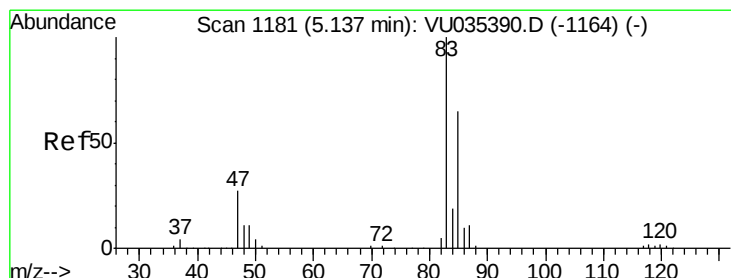
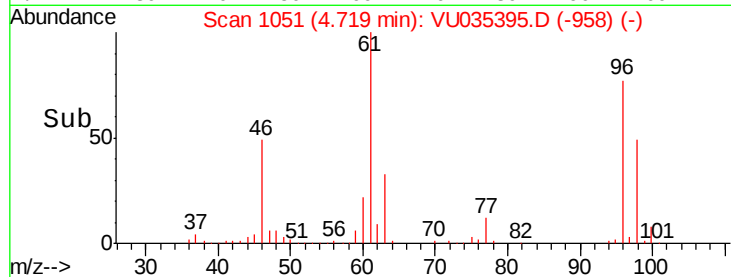
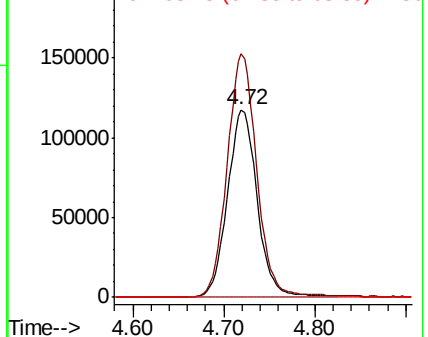
96 100

61 129.7 89.7 166.5

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: 0.245 ug/L

RT: 5.14 min Scan# 1182

Delta R.T. 0.00 min

Lab File: VU035395.D

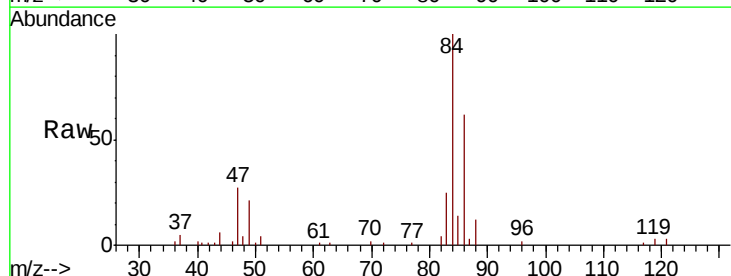
Acq: 23 Oct 2019 05:58

Tgt Ion: 83 Resp: 7990

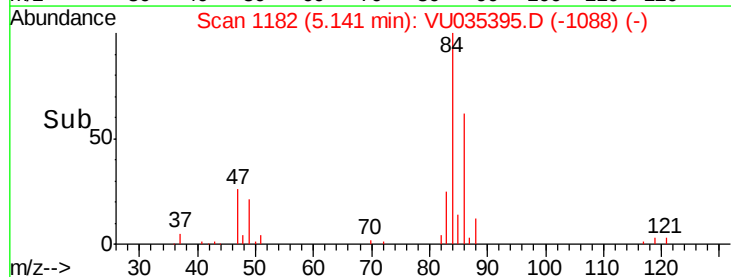
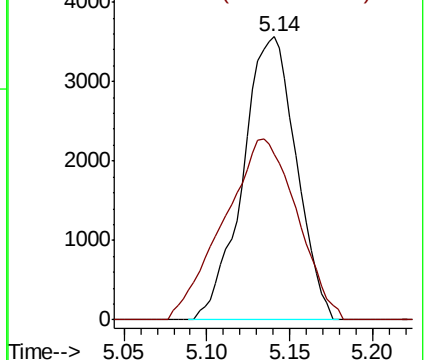
Ion Ratio Lower Upper

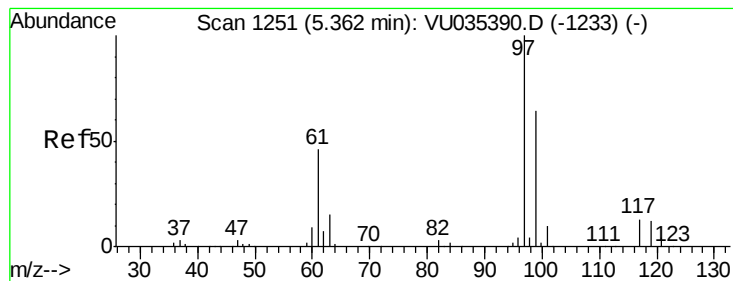
83 100

85 58.7 45.1 83.9



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: 0.727 ug/L

RT: 5.36 min Scan# 1250

Delta R.T. -0.00 min

Lab File: VU035395.D

Acq: 23 Oct 2019 05:58

Instrument :
MSVOA_U
ClientSampled :

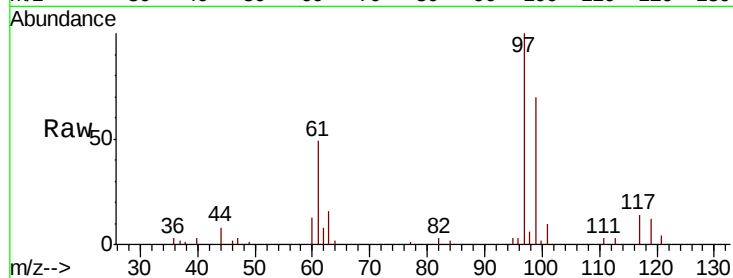
Tot Ion: 97 Resp: 20211

Ion Ratio Lower Upper

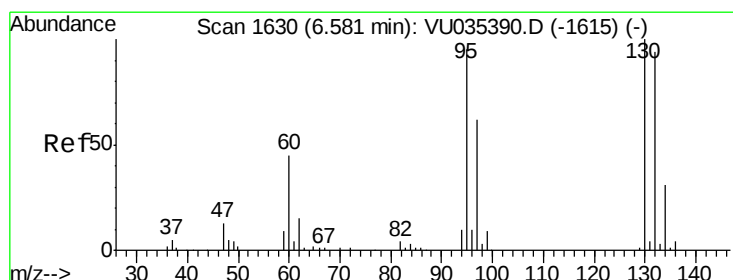
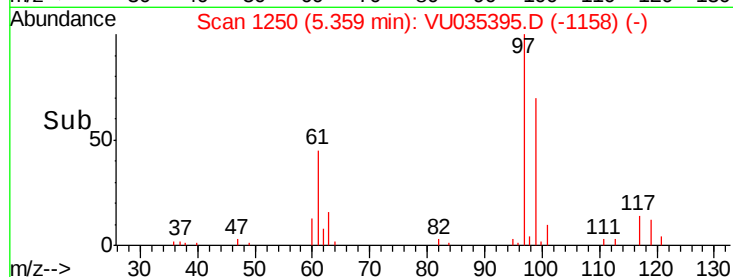
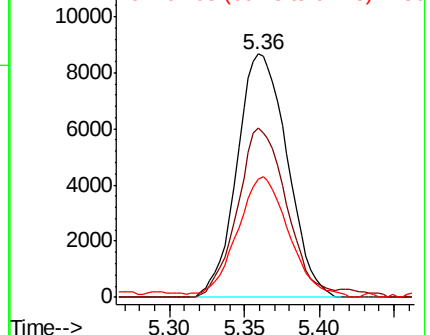
97 100

99 68.4 52.6 79.0

61 51.1 37.0 55.4



Abundance Ion 96.95 (96.65 to 97.65): VU0
Ion 99.05 (98.75 to 99.75): VU0
Ion 61.05 (60.75 to 61.75): VU0



#34

Trichloroethene

Concen: 22.812 ug/L

RT: 6.58 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VU035395.D

Acq: 23 Oct 2019 05:58

Tgt Ion: 95 Resp: 428114

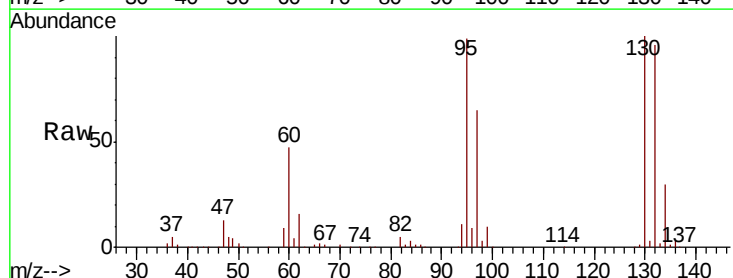
Ion Ratio Lower Upper

95 100

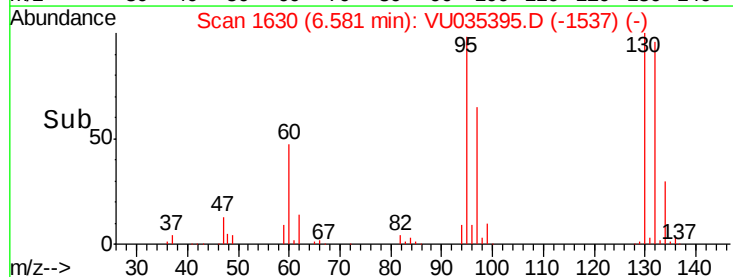
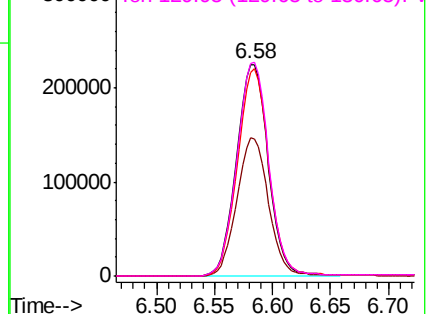
97 65.2 46.6 86.6

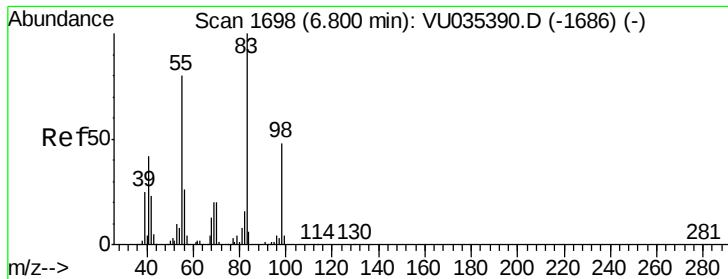
132 96.4 68.7 127.7

130 100.5 73.9 137.3



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

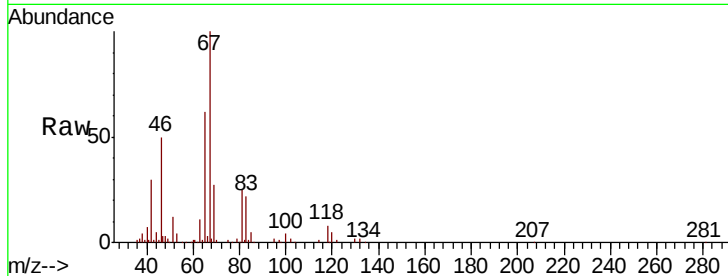




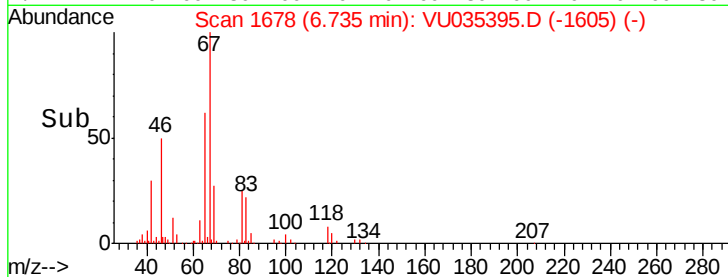
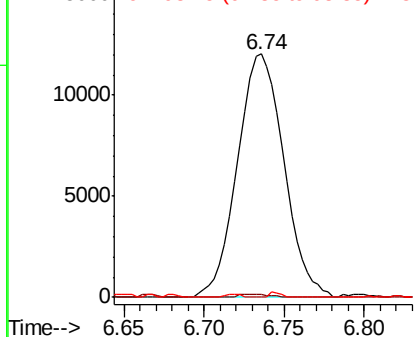
#35
Methvlcvclohexane
Concen: 0.761 ug/L
RT: 6.74 min Scan# 1678
Delta R.T. -0.06 min
Lab File: VU035395.D
Acq: 23 Oct 2019 05:58

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 83 Resp: 23873
Ion Ratio Lower Upper
83 100
55 0.8 60.4 90.6#
98 0.0 39.5 59.3#

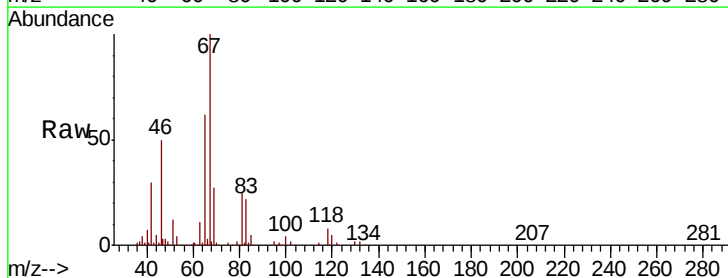
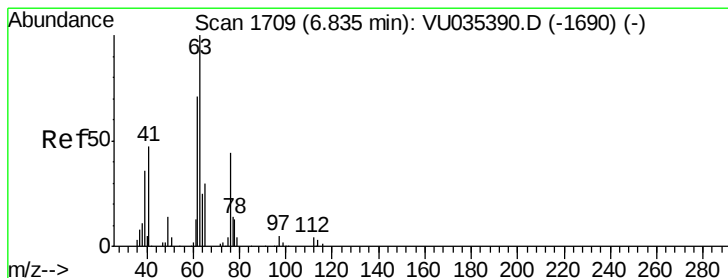


Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0

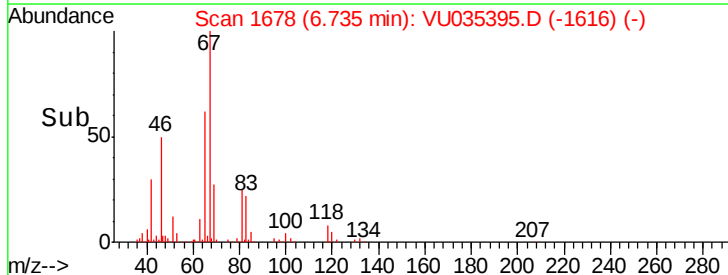
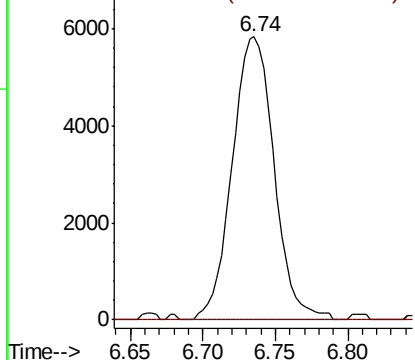


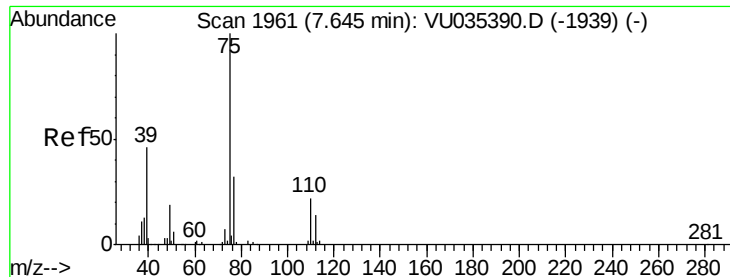
#37
1,2-Dichloropropane
Concen: 0.663 ug/L
RT: 6.74 min Scan# 1678
Delta R.T. -0.10 min
Lab File: VU035395.D
Acq: 23 Oct 2019 05:58

Tgt Ion: 63 Resp: 11741
Ion Ratio Lower Upper
63 100
112 0.2 3.7 5.5#



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





#39

cis-1,3-Dichloropropene

Concen: 0.085 ug/L

RT: 7.60 min Scan# 1948

Delta R.T. -0.04 min

Lab File: VU035395.D

Acq: 23 Oct 2019 05:58

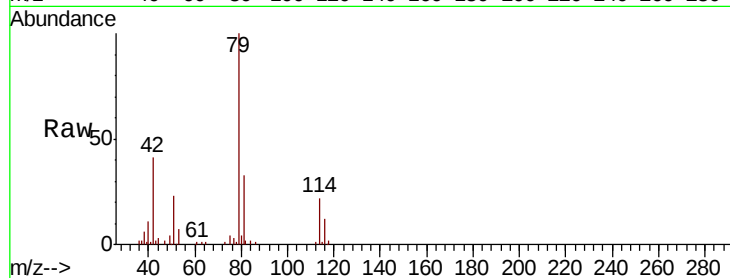
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 75 Resp: 2507

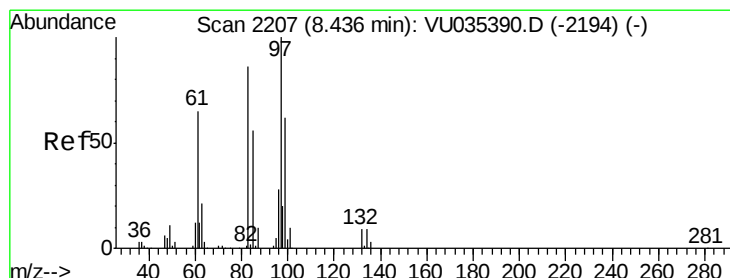
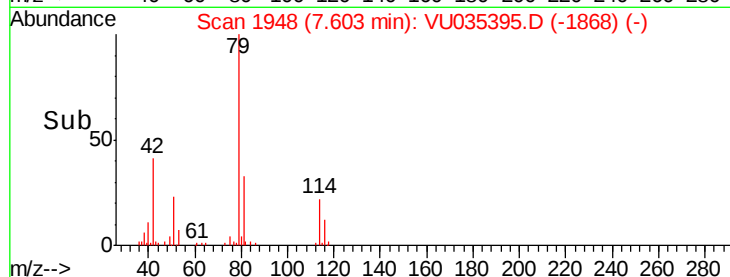
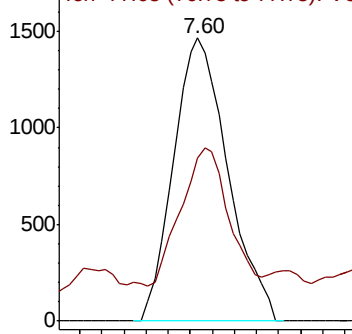
Ion Ratio Lower Upper

75 100

77 57.8 22.7 42.1#



Abundance Ion 75.05 (74.75 to 75.75): VU0
Ion 77.05 (76.75 to 77.75): VU0



#45

1,1,2-Trichloroethane

Concen: 0.199 ug/L

RT: 8.44 min Scan# 2208

Delta R.T. 0.00 min

Lab File: VU035395.D

Acq: 23 Oct 2019 05:58

Tgt Ion: 97 Resp: 2620

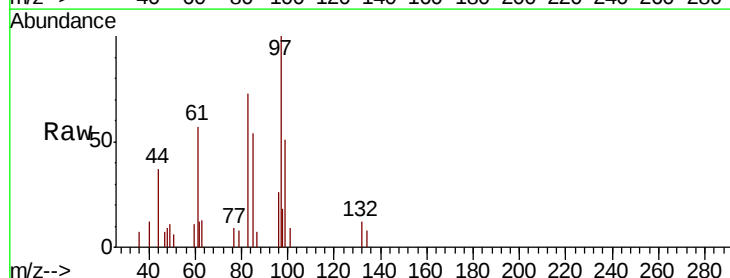
Ion Ratio Lower Upper

97 100

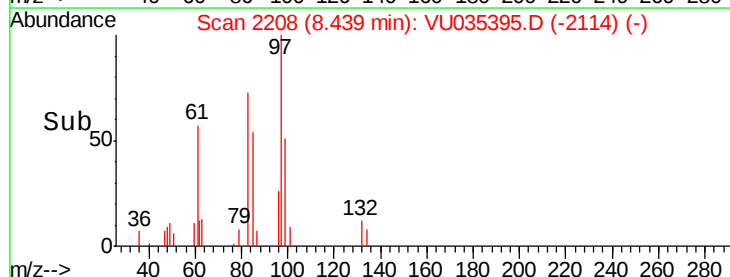
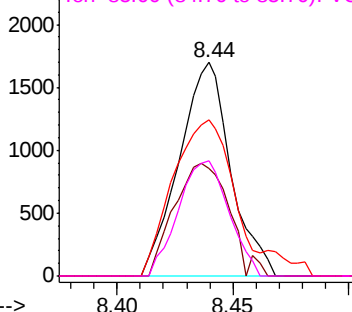
99 50.6 42.9 79.7

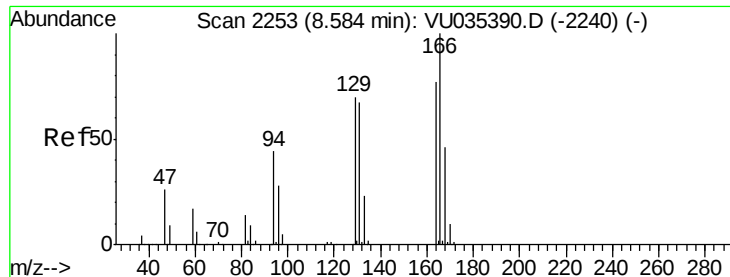
83 73.0 60.4 112.2

85 53.7 38.4 71.2



Abundance Ion 96.95 (96.65 to 97.65): VU0
Ion 99.05 (98.75 to 99.75): VU0
Ion 82.95 (82.65 to 83.65): VU0
Ion 85.00 (84.70 to 85.70): VU0

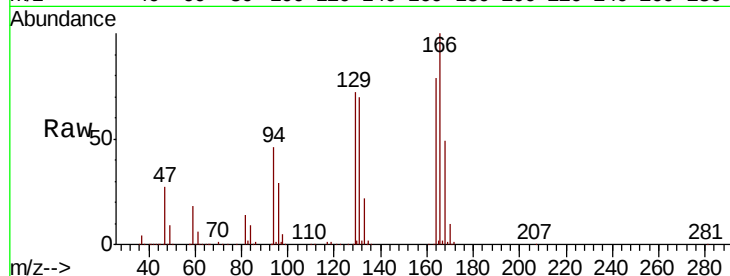




#47
Tetrachloroethene
Concen: 43.217 ug/L
RT: 8.58 min Scan# 2253
Delta R.T. -0.00 min
Lab File: VU035395.D
Acq: 23 Oct 2019 05:58

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
164	100		
129	92.0	65.2	121.0
131	89.2	62.9	116.9
166	127.2	91.5	169.9



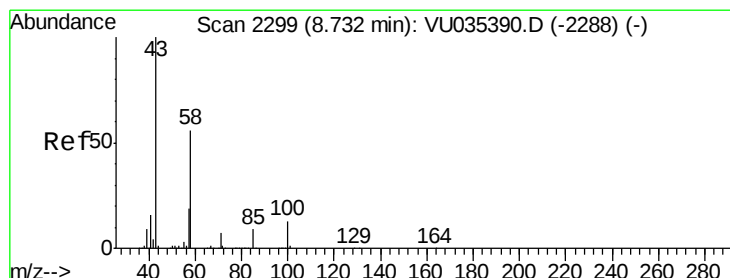
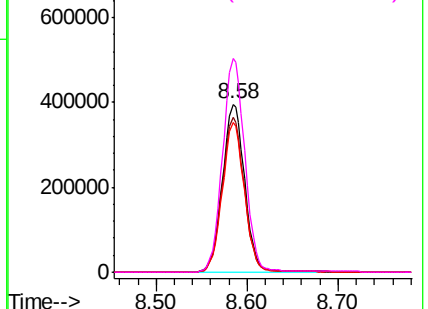
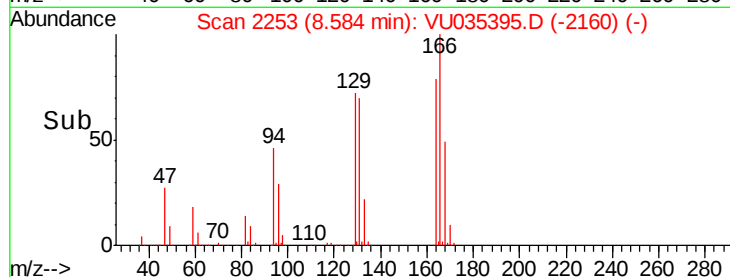
Abundance

Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

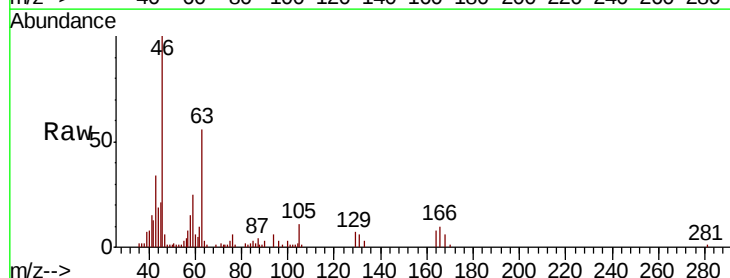
Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V



#48
2-Hexanone
Concen: 0.993 ug/L
RT: 8.73 min Scan# 2298
Delta R.T. -0.00 min
Lab File: VU035395.D
Acq: 23 Oct 2019 05:58

Tgt Ion	Ratio	Lower	Upper
43	100		
58	68.9	45.1	67.7#
57	33.6	16.0	24.0#
100	11.0	10.4	15.6



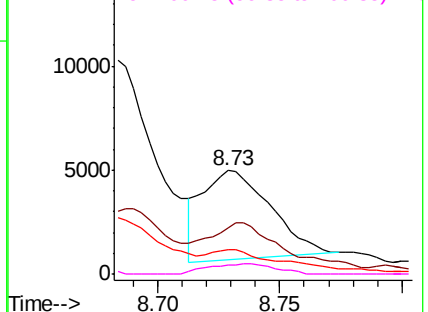
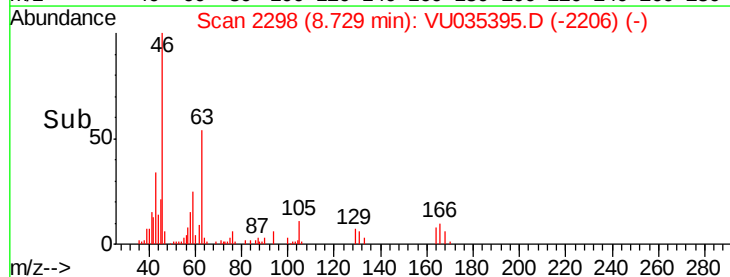
Abundance

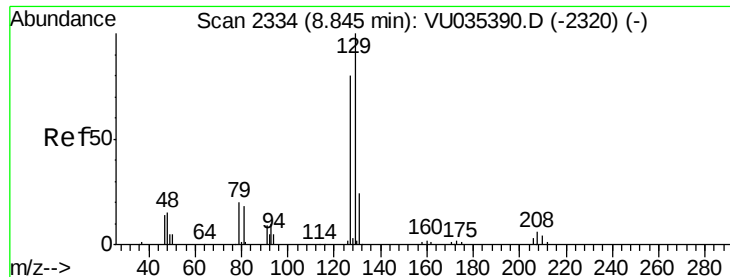
Ion 43.05 (42.75 to 43.75): VU0

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: 36.507 ug/L

RT: 8.58 min Scan# 2253

Delta R.T. -0.26 min

Lab File: VU035395.D

Acq: 23 Oct 2019 05:58

Instrument :

MSVOA_U

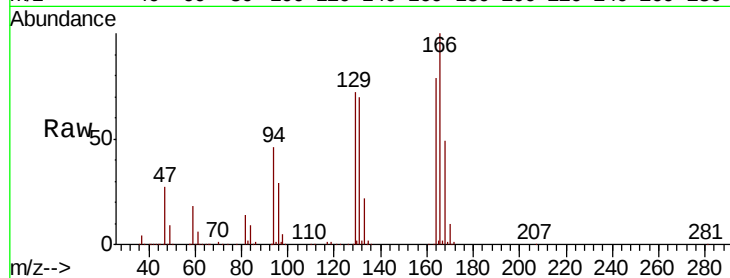
ClientSampled :

Tot Ion:129 Resp: 608894

Ion Ratio Lower Upper

129 100

127 0.0 53.8 99.8#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

8.58

400000

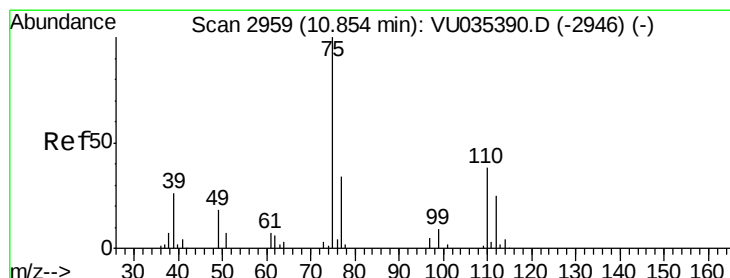
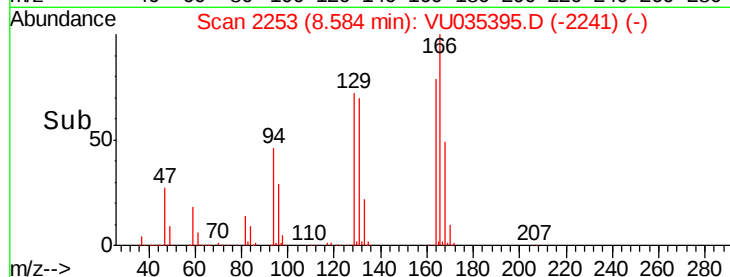
300000

200000

100000

0

Time--> 8.50 8.60 8.70



#59

1,2,3-Trichloropropane

Concen: 0.823 ug/L

RT: 11.84 min Scan# 3266

Delta R.T. 0.99 min

Lab File: VU035395.D

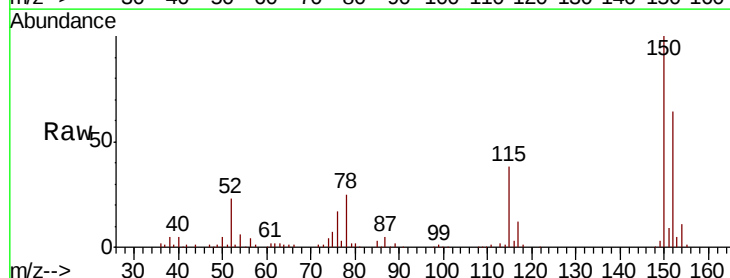
Acq: 23 Oct 2019 05:58

Tgt Ion: 75 Resp: 10167

Ion Ratio Lower Upper

75 100

77 38.0 26.2 39.2



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

11.84

6000

5000

4000

3000

2000

1000

0

Time--> 11.80 11.85 11.90

