

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U121019\
 Data File : VU036087.D
 Acq On : 10 Dec 2019 16:43
 Operator : JC/MD
 Sample : K6168-05DL 5X
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Dec 11 06:31:59 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	310768	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	343309	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	119487	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	148836	5.37	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	107.40%
7) Chloroethane-d5	1.93	69	134543	4.63	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	92.60%
11) 1,1-Dichloroethene-d2	2.59	63	162280	3.20	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	64.00%
20) 2-Butanone-d5	4.70	46	290869	61.63	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	123.26%
24) Chloroform-d	5.11	84	224184	4.98	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.60%
26) 1,2-Dichloroethane-d4	5.75	65	121550	5.22	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	104.40%
32) Benzene-d6	5.77	84	445367	5.13	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	102.60%
36) 1,2-Dichloropropane-d6	6.73	67	139540	5.32	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	106.40%
41) Toluene-d8	7.93	98	362497	4.52	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.40%
43) trans-1,3-Dichloropropene-	8.22	79	54562	5.00	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	100.00%
46) 2-Hexanone-d5	8.68	63	238331	60.31	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	120.62%
57) 1,1,2,2-Tetrachloroethane-	10.78	84	126703	5.26	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	105.20%
64) 1,2-Dichlorobenzene-d4	12.22	152	127221	5.53	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	110.60%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
12) 1,1-Dichloroethene	2.60	96	6776	0.251	ug/L #	1
13) Acetone	2.69	43	25251	4.214	ug/L	98
16) Methylene chloride	3.08	84	7559	0.241	ug/L	92
19) 1,1-Dichloroethane	3.92	63	14290	0.345	ug/L	97
21) 2-Butanone	4.78	43	9674	1.613	ug/L	89
22) cis-1,2-Dichloroethene	4.73	96	4281	0.177	ug/L	87
25) Chloroform	5.13	83	9766	0.212	ug/L	77
27) 1,2-Dichloroethane	5.84	62	6824	0.250	ug/L #	90
29) 1,1,1-Trichloroethane	5.36	97	2621	0.068	ug/L #	86
34) Trichloroethene	6.58	95	10899	0.437	ug/L	94
35) Methylcyclohexane	6.73	83	34464	1.031	ug/L #	19
37) 1,2-Dichloropropane	6.74	63	14922	0.634	ug/L #	87
47) Tetrachloroethene	8.58	164	137471	5.804	ug/L	98
48) 2-Hexanone	8.73	43	17052	1.934	ug/L #	81
49) Dibromochloromethane	8.58	129	120881	4.915	ug/L #	12
63) 1,4-Dichlorobenzene	11.86	146	3017	0.078	ug/L	89
66) 1,2-Dibromo-3-chloropropan	13.02	75	328	0.135	ug/L #	56

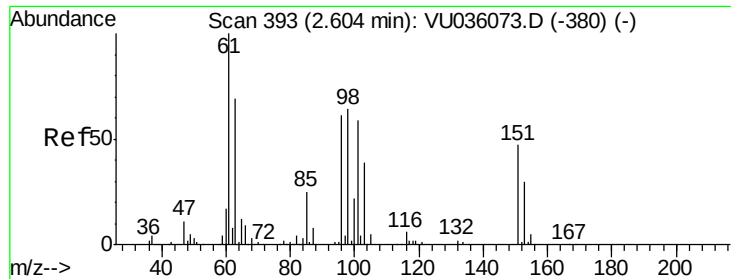
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU121019\
Data File : VU036087.D
Acq On : 10 Dec 2019 16:43
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Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Dec 11 06:27:41 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) 1,3,5-Trichlorobenzene	13.24	180	2580	0.097	ug/L #	92
68) 1,2,4-trichlorobenzene	13.87	180	2012	0.143	ug/L #	89
69) Naphthalene	14.11	128	2461	0.182	ug/L	94
70) 1,2,3-Trichlorobenzene	14.36	180	2646	0.196	ug/L #	86

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



#12

1,1-Dichloroethene

Concen: 0.251 ug/L

RT: 2.60 min Scan# 392

Delta R.T. -0.00 min

Lab File: VU036087.D

Acq: 10 Dec 2019 16:43

Instrument :

MSVOA_U

ClientSampleId :

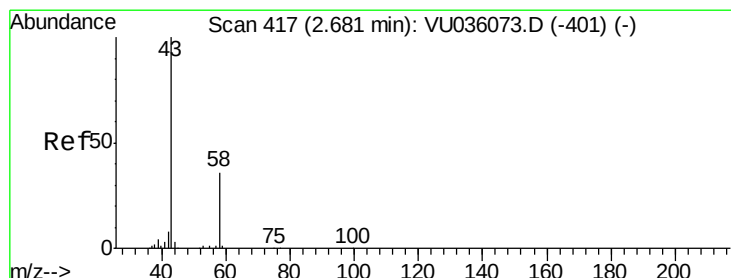
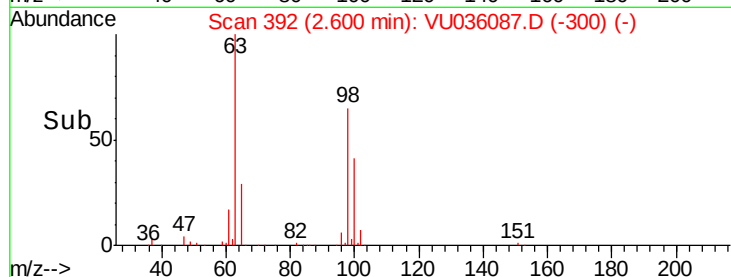
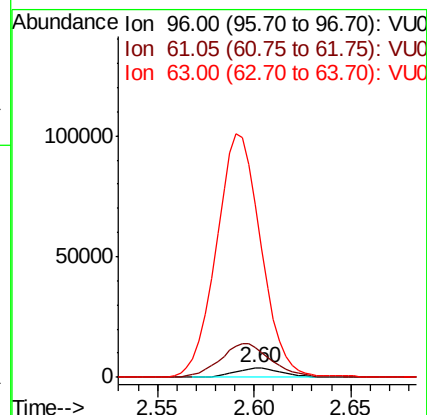
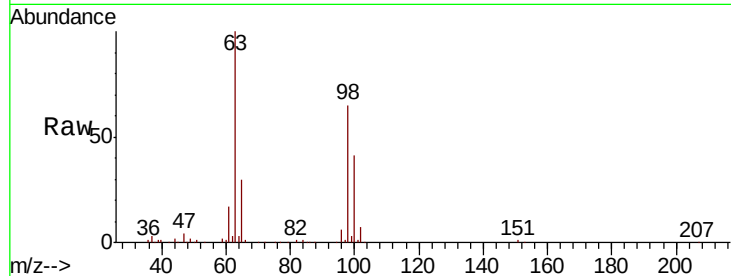
Tot Ion: 96 Resp: 6776

Ion Ratio Lower Upper

96 100

61 302.8 104.3 193.7#

63 1760.5 65.6 121.8#



#13

Acetone

Concen: 4.214 ug/L

RT: 2.69 min Scan# 419

Delta R.T. 0.01 min

Lab File: VU036087.D

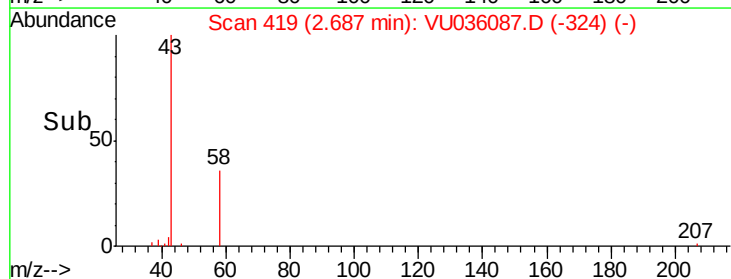
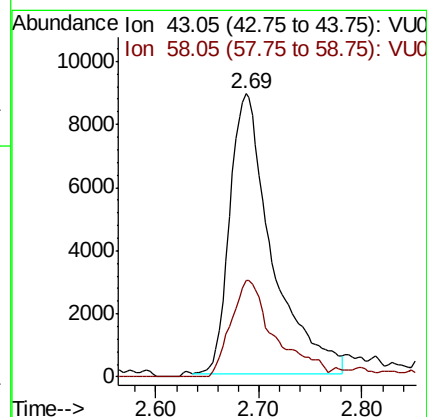
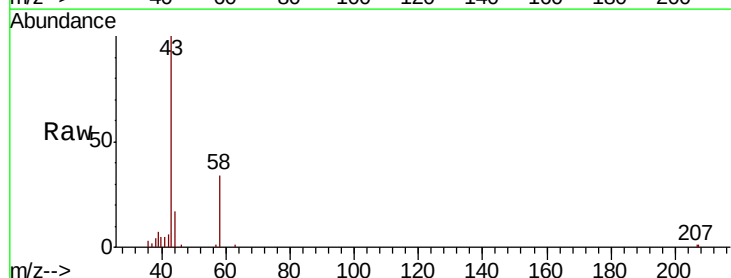
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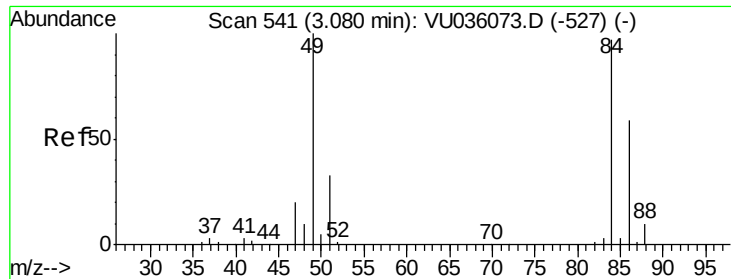
Tgt Ion: 43 Resp: 25251

Ion Ratio Lower Upper

43 100

58 35.9 0.0 74.2

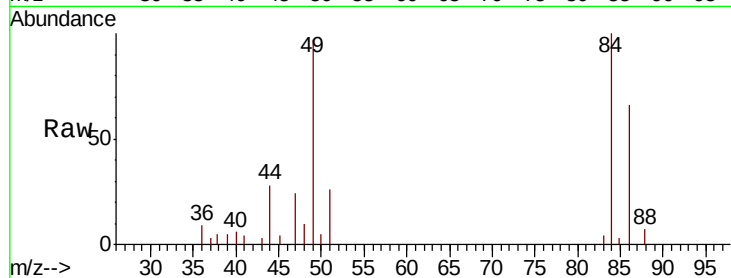




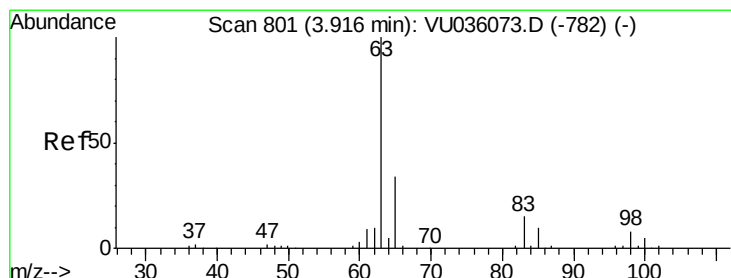
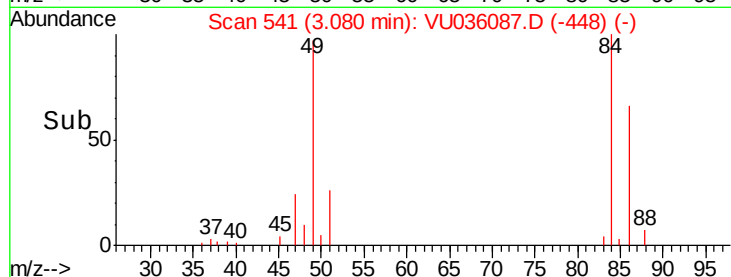
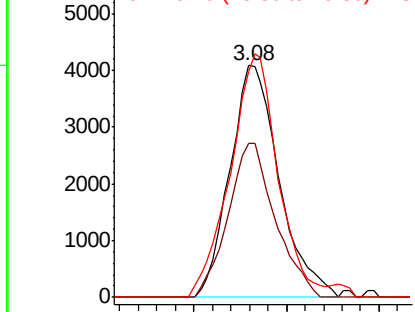
#16
Methylene chloride
Concen: 0.241 ug/L
RT: 3.08 min Scan# 541
Delta R.T. -0.00 min
Lab File: VU036087.D
Acq: 10 Dec 2019 16:43

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 84 Resp: 7559
Ion Ratio Lower Upper
84 100
86 66.2 47.5 88.3
49 97.3 76.9 142.9

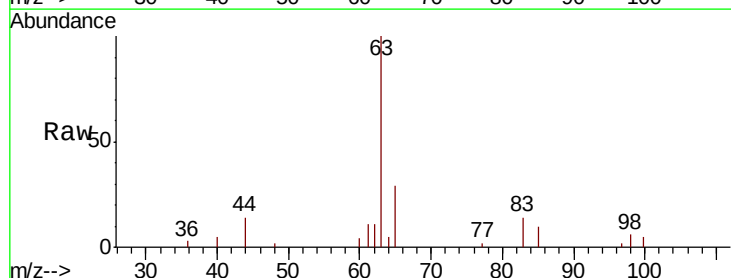


Abundance Ion 84.05 (83.75 to 84.75): VU0
Ion 86.00 (85.70 to 86.70): VU0
Ion 49.10 (48.80 to 49.80): VU0

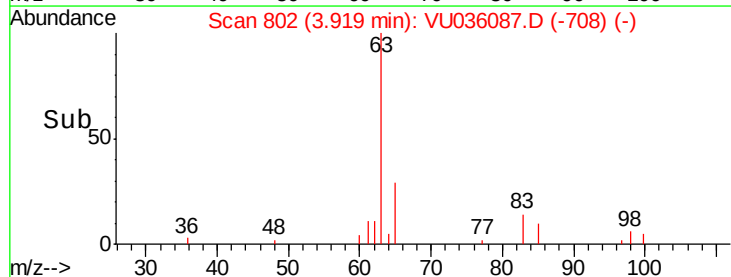
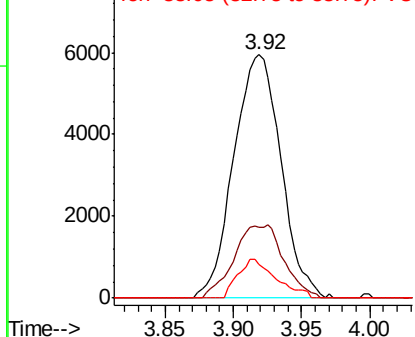


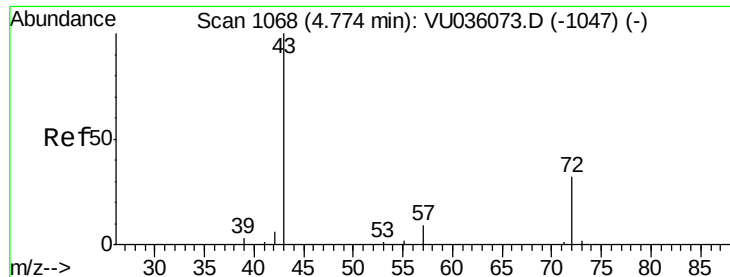
#19
1,1-Dichloroethane
Concen: 0.345 ug/L
RT: 3.92 min Scan# 802
Delta R.T. 0.00 min
Lab File: VU036087.D
Acq: 10 Dec 2019 16:43

Tgt Ion: 63 Resp: 14290
Ion Ratio Lower Upper
63 100
65 29.3 21.8 40.4
83 14.0 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: 1.613 ug/L

RT: 4.78 min Scan# 1071

Delta R.T. 0.01 min

Lab File: VU036087.D

Acq: 10 Dec 2019 16:43

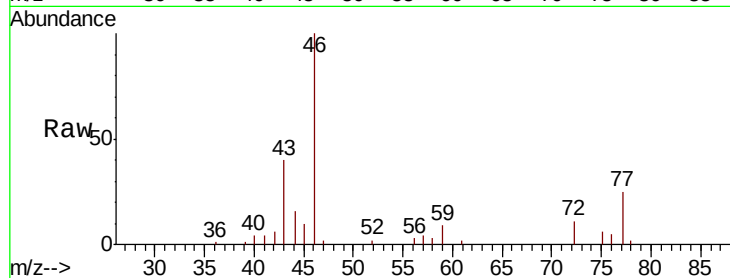
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 9674

Ion Ratio Lower Upper

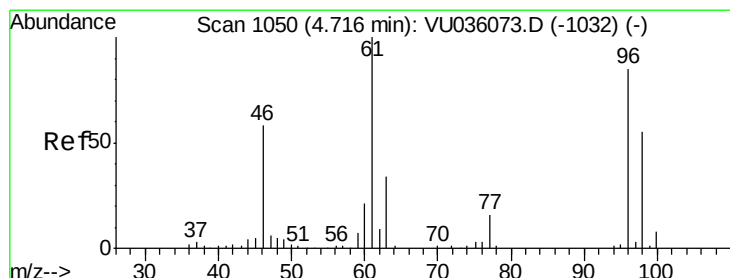
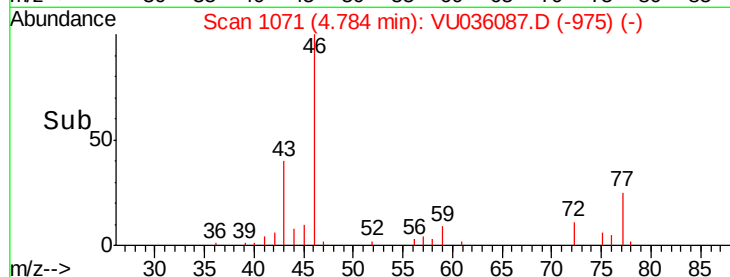
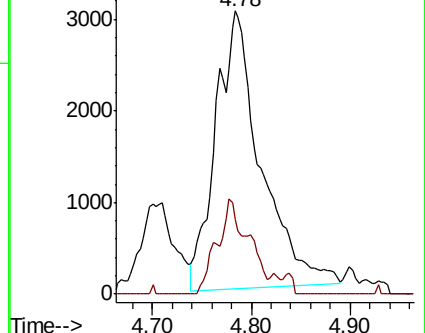
43 100

72 23.8 15.0 45.0



Abundance Ion 43.05 (42.75 to 43.75): VU036087.D (-975) (-)

Ion 72.10 (71.80 to 72.80): VU036087.D (-975) (-)



#22

cis-1,2-Dichloroethene

Concen: 0.177 ug/L

RT: 4.73 min Scan# 1053

Delta R.T. 0.01 min

Lab File: VU036087.D

Acq: 10 Dec 2019 16:43

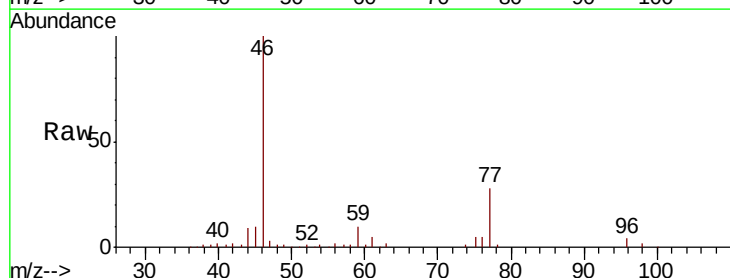
Tgt Ion: 96 Resp: 4281

Ion Ratio Lower Upper

96 100

61 104.4 83.0 154.2

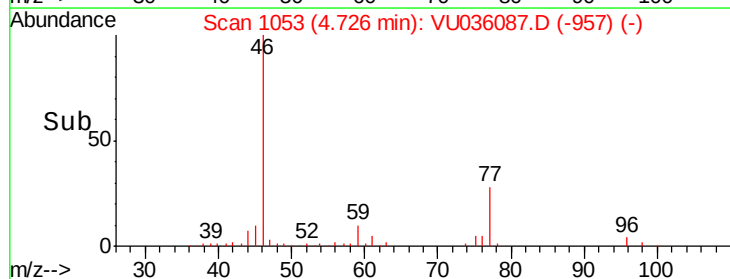
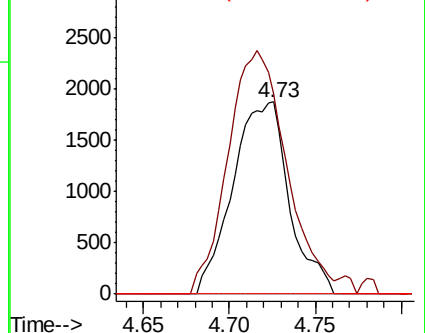
68 0.0 0.0 0.0

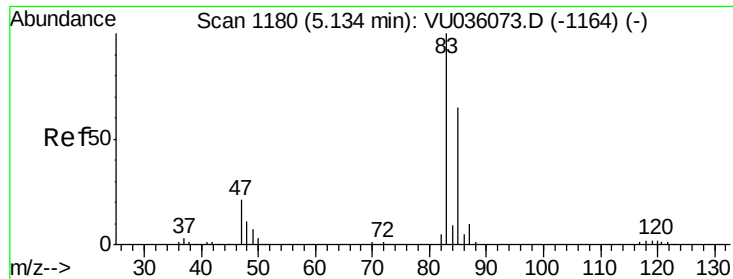


Abundance Ion 96.00 (95.70 to 96.70): VU036087.D (-957) (-)

Ion 61.05 (60.75 to 61.75): VU036087.D (-957) (-)

Ion 68.15 (67.85 to 68.85): VU036087.D (-957) (-)

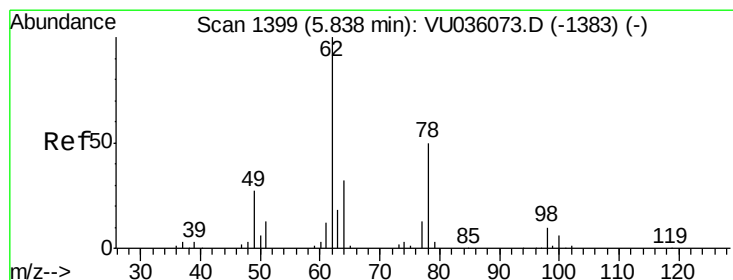
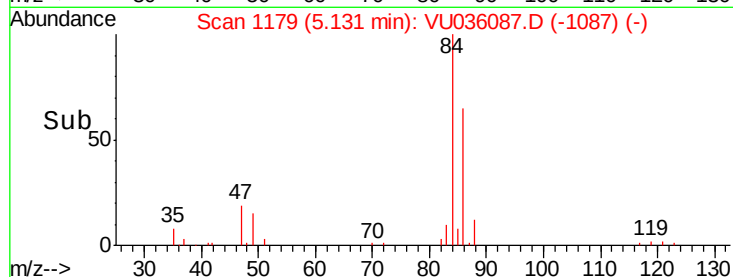
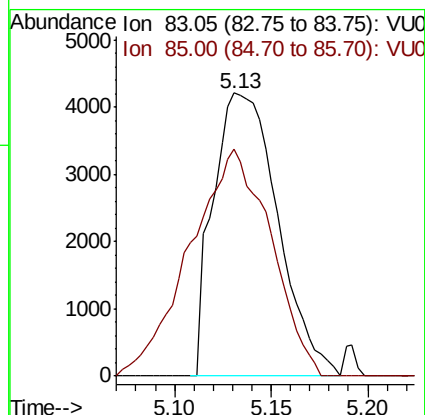
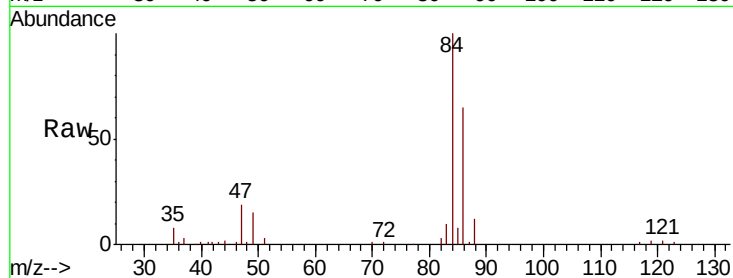




#25
Chloroform
Concen: 0.212 ug/L
RT: 5.13 min Scan# 1179
Delta R.T. -0.00 min
Lab File: VU036087.D
Acq: 10 Dec 2019 16:43

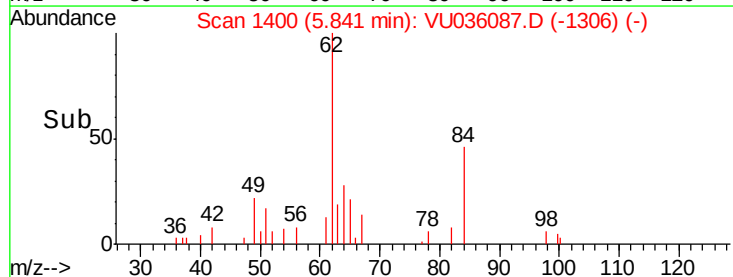
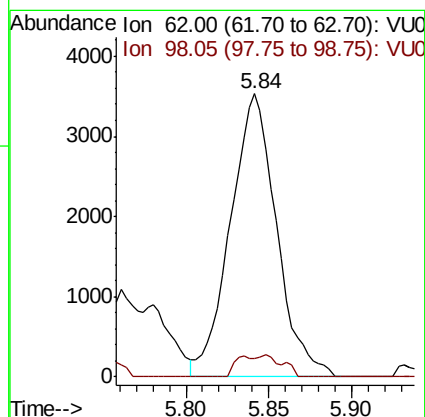
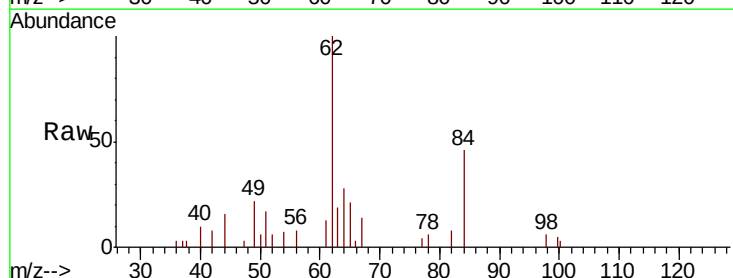
Instrument :
MSVOA_U
ClientSampleId :

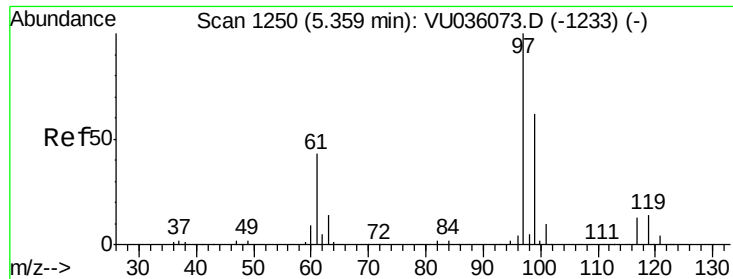
Tot Ion: 83 Resp: 9766
Ion Ratio Lower Upper
83 100
85 80.2 43.9 81.5



#27
1,2-Dichloroethane
Concen: 0.250 ug/L
RT: 5.84 min Scan# 1400
Delta R.T. 0.00 min
Lab File: VU036087.D
Acq: 10 Dec 2019 16:43

Tgt Ion: 62 Resp: 6824
Ion Ratio Lower Upper
62 100
98 6.3 8.2 12.2#

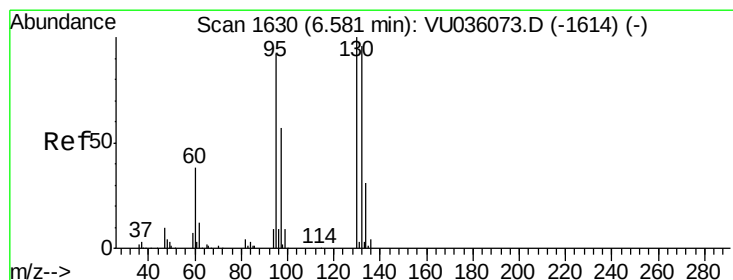
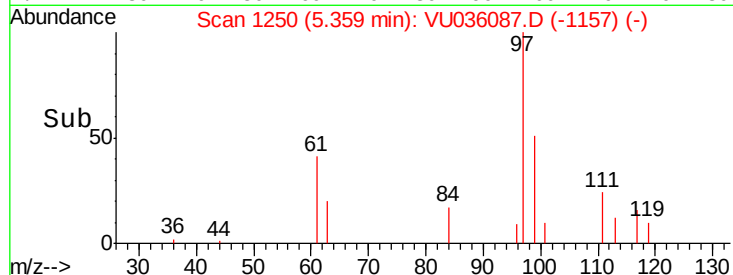
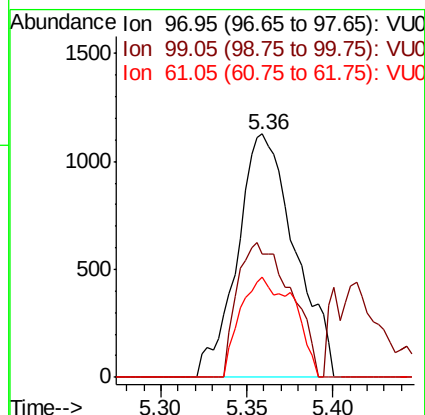
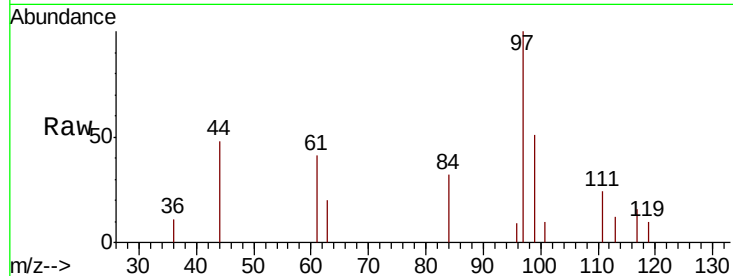




#29
1,1,1-Trichloroethane
Concen: 0.068 ug/L
RT: 5.36 min Scan# 1250
Delta R.T. -0.00 min
Lab File: VU036087.D
Acq: 10 Dec 2019 16:43

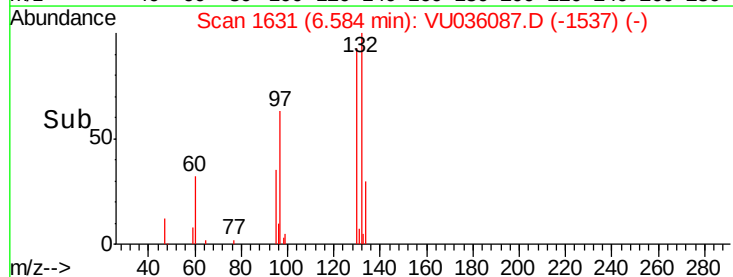
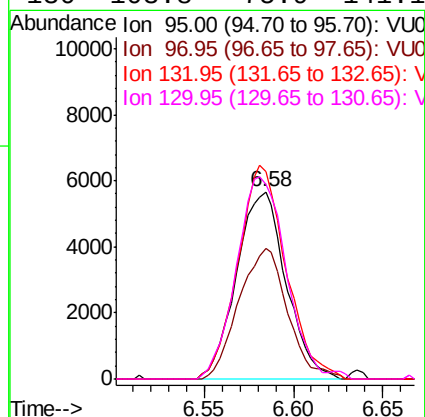
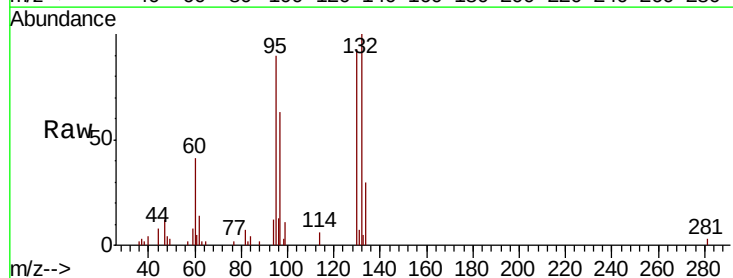
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MSVOA_U
ClientSampled :

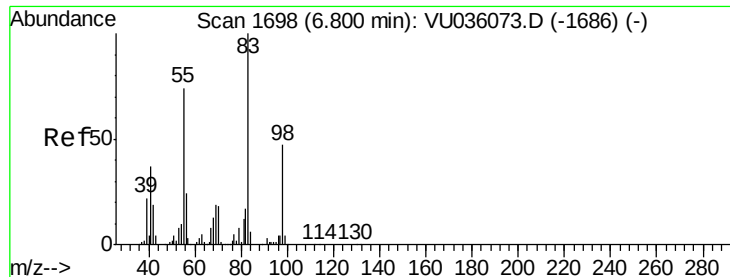
Tot Ion: 97 Resp: 2621
Ion Ratio Lower Upper
97 100
99 51.4 52.2 78.2#
61 38.1 34.7 52.1



#34
Trichloroethene
Concen: 0.437 ug/L
RT: 6.58 min Scan# 1631
Delta R.T. 0.00 min
Lab File: VU036087.D
Acq: 10 Dec 2019 16:43

Tgt Ion: 95 Resp: 10899
Ion Ratio Lower Upper
95 100
97 69.8 44.4 82.4
132 111.1 73.4 136.4
130 103.8 75.9 141.1

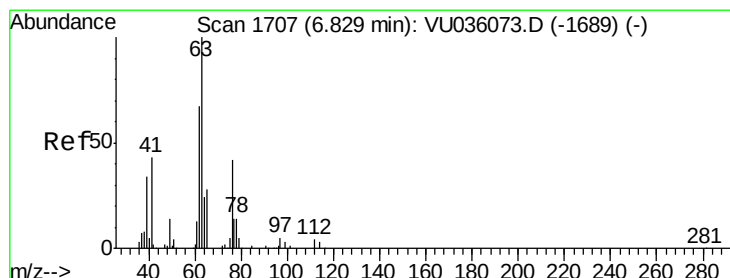
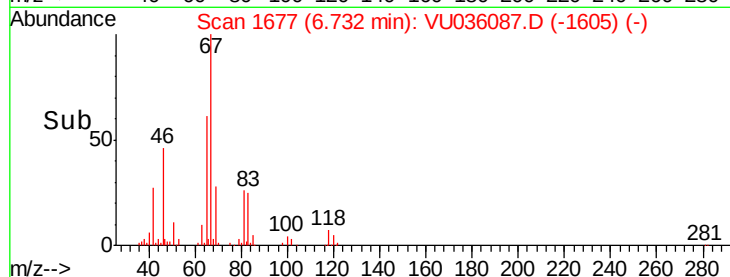
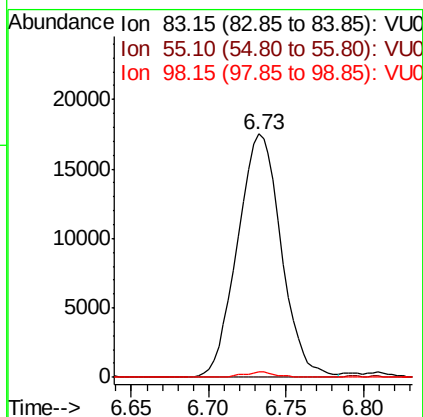
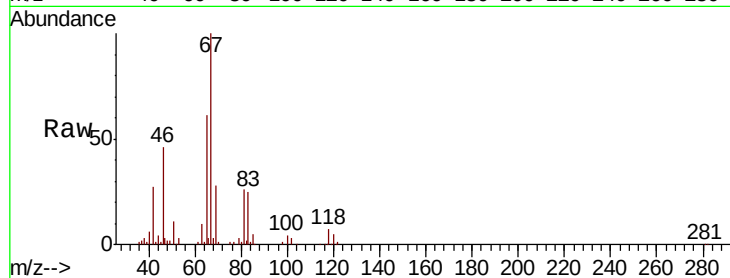




#35
Methylcyclohexane
Concen: 1.031 ug/L
RT: 6.73 min Scan# 1677
Delta R.T. -0.07 min
Lab File: VU036087.D
Acq: 10 Dec 2019 16:43

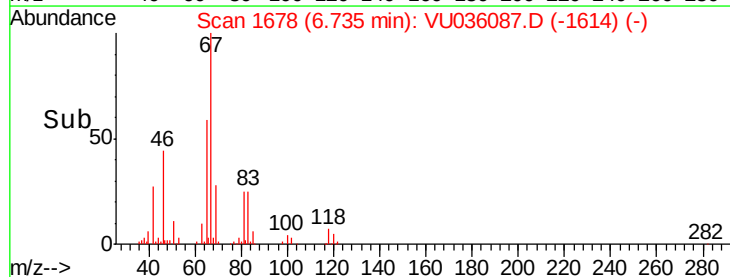
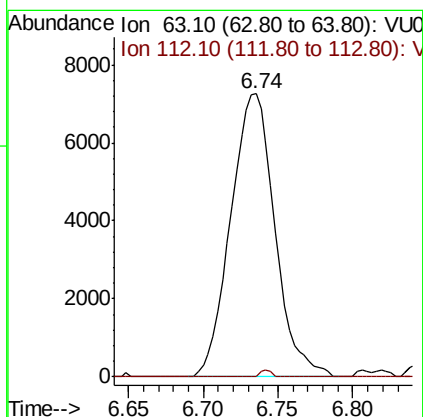
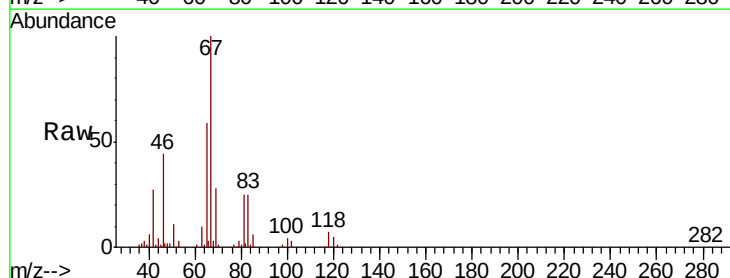
Instrument :
MSVOA_U
ClientSampleId :

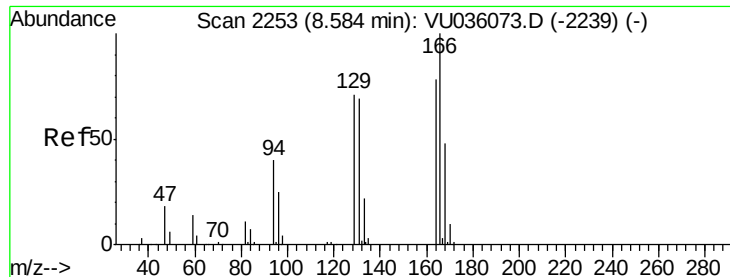
Tot Ion: 83 Resp: 34464
Ion Ratio Lower Upper
83 100
55 0.2 62.1 93.1#
98 1.7 37.0 55.4#



#37
1,2-Dichloropropane
Concen: 0.634 ug/L
RT: 6.74 min Scan# 1678
Delta R.T. -0.09 min
Lab File: VU036087.D
Acq: 10 Dec 2019 16:43

Tgt Ion: 63 Resp: 14922
Ion Ratio Lower Upper
63 100
112 0.6 3.8 5.8#





#47

Tetrachloroethene

Concen: 5.804 ug/L

RT: 8.58 min Scan# 2253

Delta R.T. -0.00 min

Lab File: VU036087.D

Acq: 10 Dec 2019 16:43

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:164 Resp: 137471

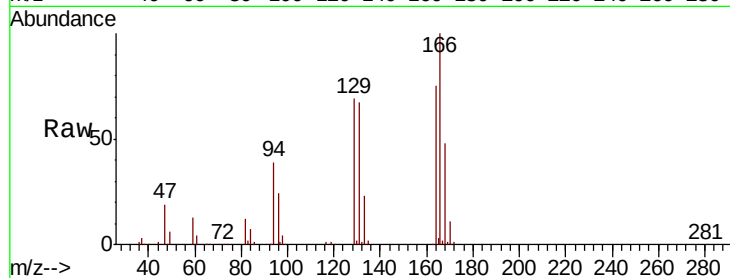
Ion Ratio Lower Upper

164 100

129 92.1 63.1 117.3

131 89.0 61.5 114.1

166 133.1 91.0 169.0

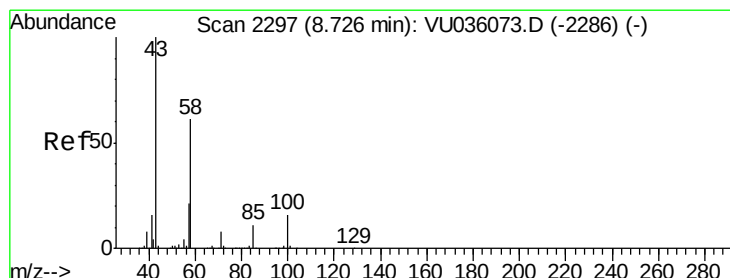
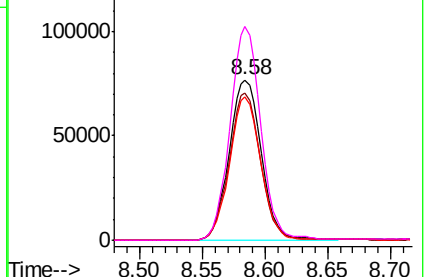
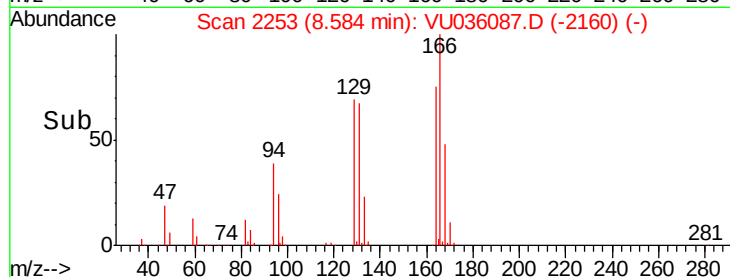


Abundance Ion 163.90 (163.60 to 164.60): V

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: 1.934 ug/L

RT: 8.73 min Scan# 2298

Delta R.T. 0.00 min

Lab File: VU036087.D

Acq: 10 Dec 2019 16:43

Tgt Ion: 43 Resp: 17052

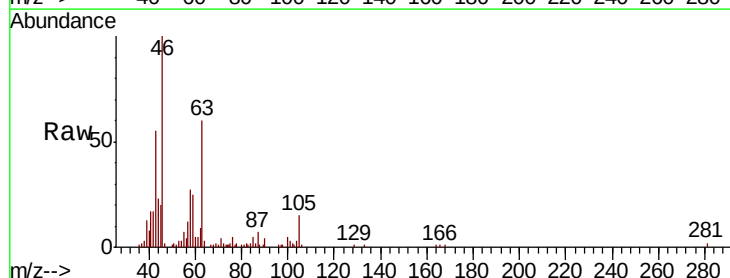
Ion Ratio Lower Upper

43 100

58 51.0 46.9 70.3

57 0.0 16.4 24.6#

100 5.7 11.0 16.4#

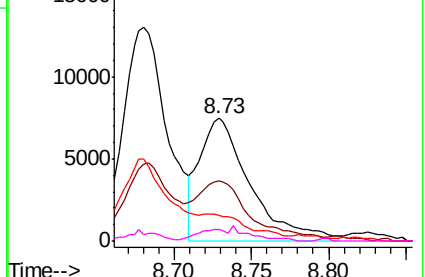
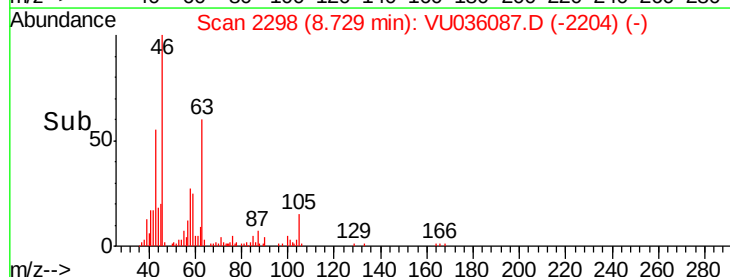


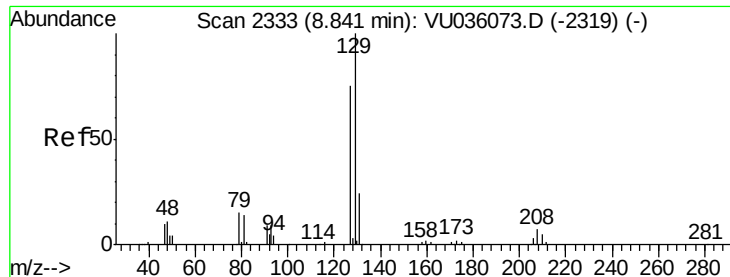
Abundance Ion 43.05 (42.75 to 43.75): VU0

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: 4.915 ug/L

RT: 8.58 min Scan# 2253

Delta R.T. -0.26 min

Lab File: VU036087.D

Acq: 10 Dec 2019 16:43

Instrument :

MSVOA_U

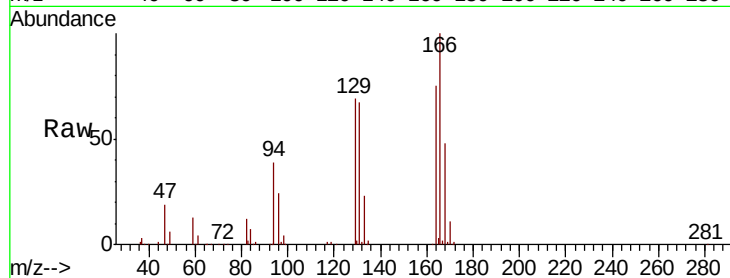
ClientSampled :

Tot Ion:129 Resp: 120881

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

60000

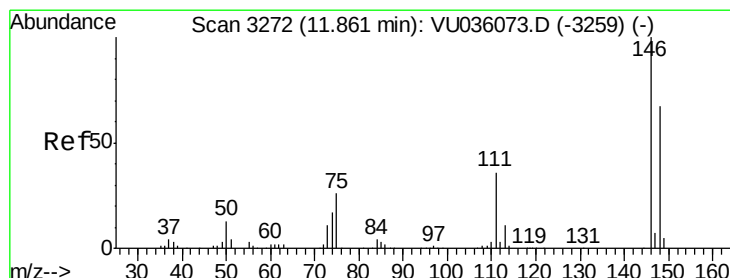
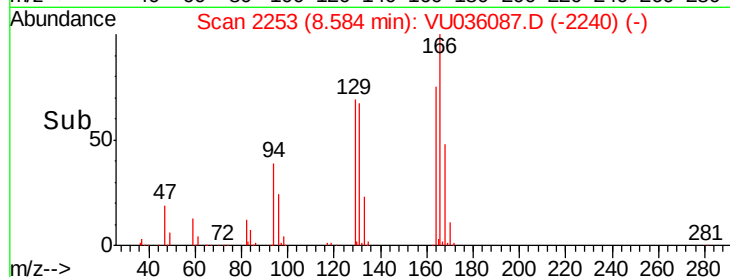
40000

20000

0

8.50 8.55 8.60 8.65 8.70

Time-->



#63

1,4-Dichlorobenzene

Concen: 0.078 ug/L

RT: 11.86 min Scan# 3273

Delta R.T. 0.00 min

Lab File: VU036087.D

Acq: 10 Dec 2019 16:43

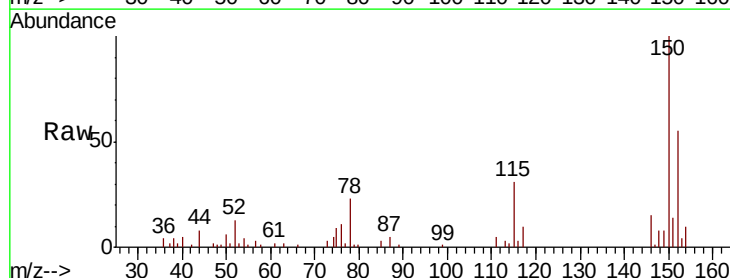
Tgt Ion:146 Resp: 3017

Ion Ratio Lower Upper

146 100

111 31.9 26.2 48.6

148 54.7 44.9 83.5



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

2500

2000

1500

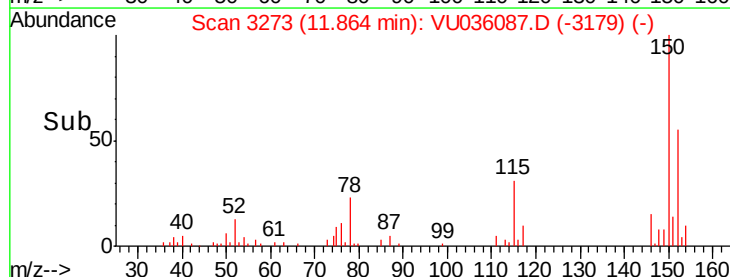
1000

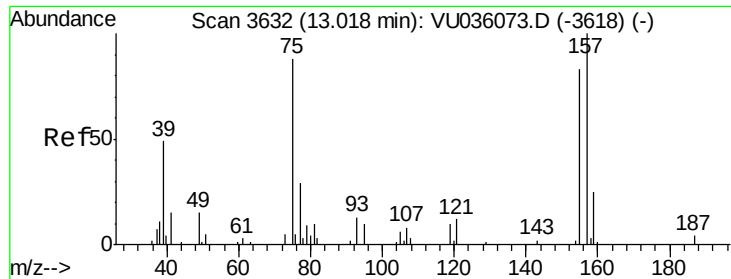
500

0

11.80 11.85 11.90

Time-->





#66

1,2-Dibromo-3-chloropropane

Concen: 0.135 ug/L

RT: 13.02 min Scan# 3634

Delta R.T. 0.01 min

Lab File: VU036087.D

Acq: 10 Dec 2019 16:43

Instrument :

MSVOA_U

ClientSampleId :

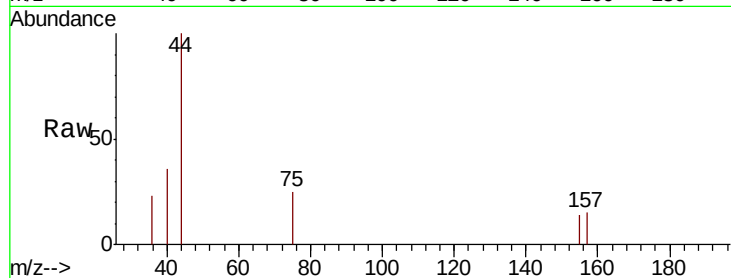
Tot Ion: 75 Resp: 328

Ion Ratio Lower Upper

75 100

155 56.1 70.0 105.0#

157 57.2 90.5 135.7#

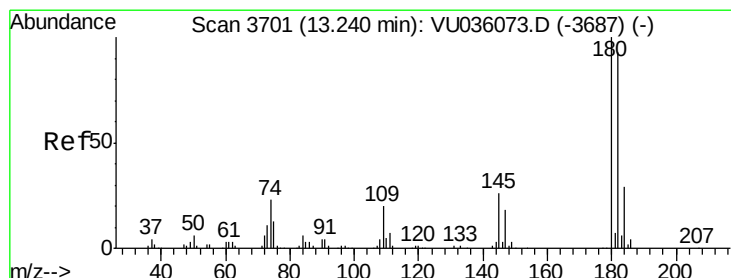
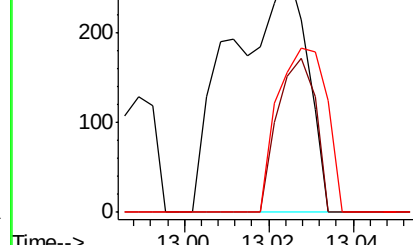
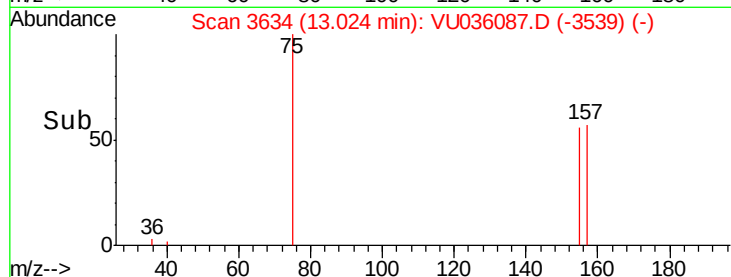


Abundance Ion 75.05 (74.75 to 75.75): VU036087.D (-3639) (-)

Ion 154.95 (154.65 to 155.65): VU036087.D (-3639) (-)

Ion 156.90 (156.60 to 157.60): VU036087.D (-3639) (-)

Time-->



#67

1,3,5-Trichlorobenzene

Concen: 0.097 ug/L

RT: 13.24 min Scan# 3702

Delta R.T. 0.00 min

Lab File: VU036087.D

Acq: 10 Dec 2019 16:43

Tgt Ion: 180 Resp: 2580

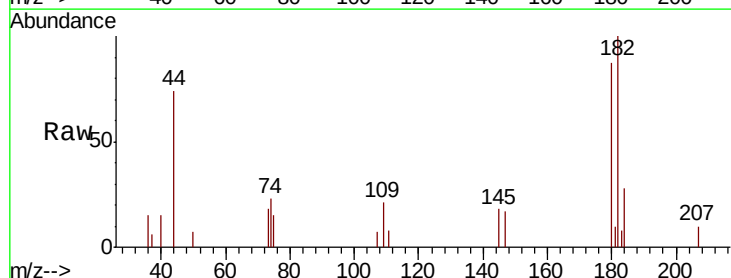
Ion Ratio Lower Upper

180 100

182 102.2 75.2 112.8

184 32.9 24.2 36.2

145 21.7 21.7 32.5#



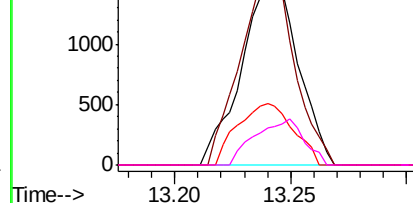
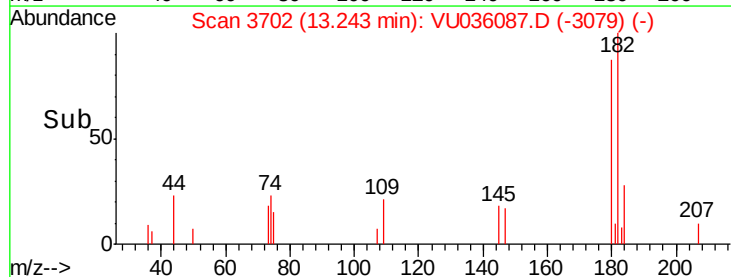
Abundance Ion 180.00 (179.70 to 180.70): VU036087.D (-3079) (-)

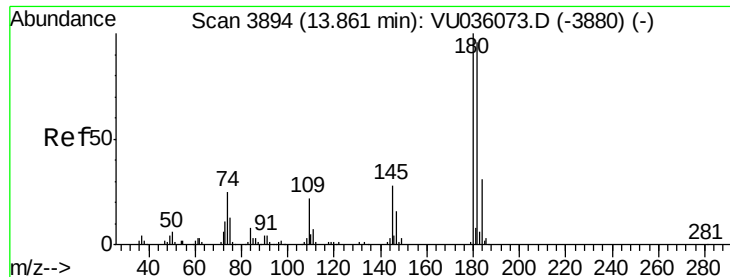
Ion 182.00 (181.70 to 182.70): VU036087.D (-3079) (-)

Ion 184.00 (183.70 to 184.70): VU036087.D (-3079) (-)

Ion 145.00 (144.70 to 145.70): VU036087.D (-3079) (-)

Time-->

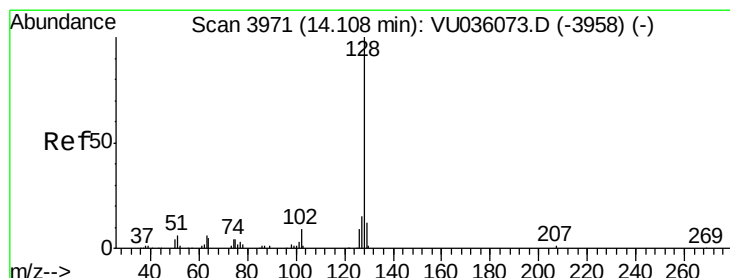
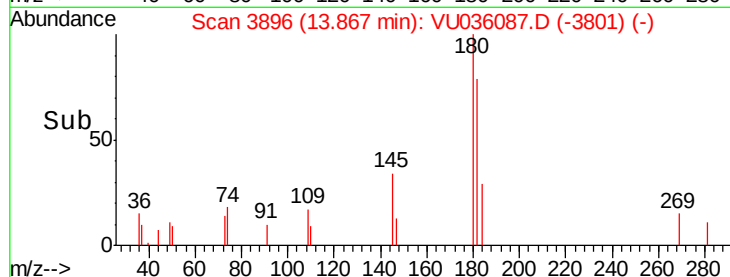
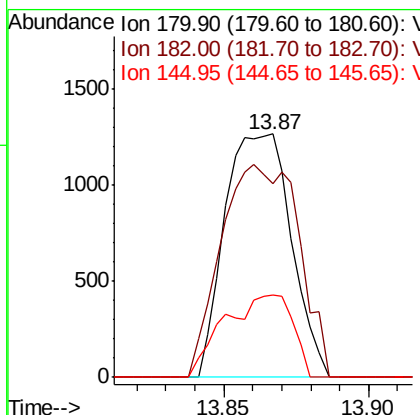
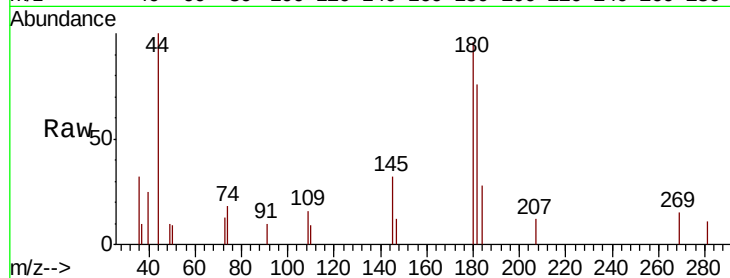




#68
 1,2,4-trichlorobenzene
 Concen: 0.143 ug/L
 RT: 13.87 min Scan# 3896
 Delta R.T. 0.01 min
 Lab File: VU036087.D
 Acq: 10 Dec 2019 16:43

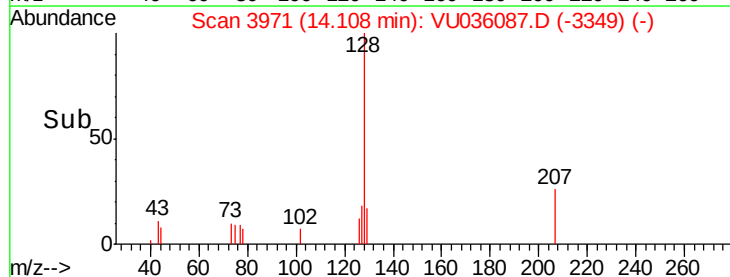
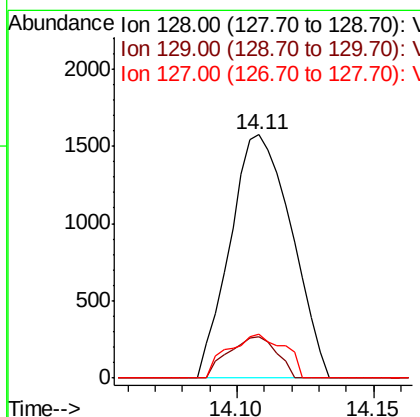
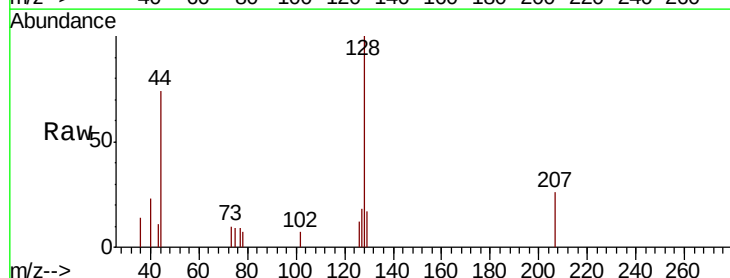
Instrument :
 MSVOA_U
 ClientSampleId :

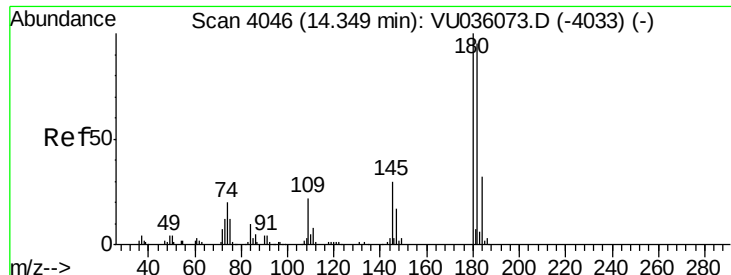
Tot Ion:180 Resp: 2012
 Ion Ratio Lower Upper
 180 100
 182 102.1 74.3 111.5
 145 35.0 22.1 33.1#



#69
 Naphthalene
 Concen: 0.182 ug/L
 RT: 14.11 min Scan# 3971
 Delta R.T. -0.00 min
 Lab File: VU036087.D
 Acq: 10 Dec 2019 16:43

Tgt Ion:128 Resp: 2461
 Ion Ratio Lower Upper
 128 100
 129 13.3 9.2 13.8
 127 16.6 11.1 16.7

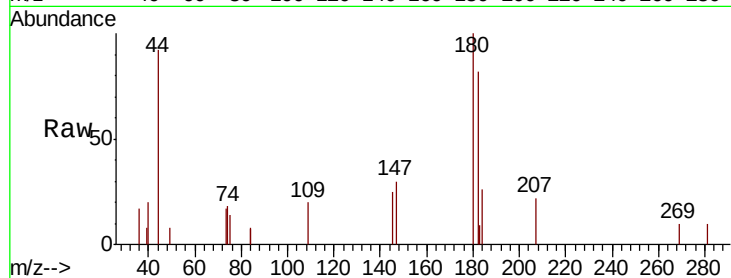




#70
 1,2,3-Trichlorobenzene
 Concen: 0.196 ug/L
 RT: 14.36 min Scan# 4048
 Delta R.T. 0.01 min
 Lab File: VU036087.D
 Acq: 10 Dec 2019 16:43

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:180 Resp: 2646
 Ion Ratio Lower Upper
 180 100
 182 81.6 76.9 115.3
 145 23.0 23.5 35.3#



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 181.90 (181.60 to 182.60): V
 Ion 144.95 (144.65 to 145.65): V

