

Data File : VU030376.D
Acq On : 24 Mar 2019 17:24
Operator : JC/SP
Sample : K2016-10
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
C0987

Quant Time: Mar 25 03:26:19 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis
QLast Update : Mon Mar 25 03:20:51 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	425328	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.15	117	476016	50.00	ug/L	0.07
60) 1,4-Dichlorobenzene-d4	11.43	152	3938	50.00	ug/L	-0.05

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	139725	40.82	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	81.64%
7) Chloroethane-d5	1.77	69	570	0.21	ug/L	0.09
Spiked Amount	50.000	Range	70 - 130	Recovery	=	0.42%#
11) 1,1-Dichloroethene-d2	2.27	63	211073	32.51	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	65.02%
21) 2-Butanone-d5	4.18	46	305115	94.82	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	94.82%
24) Chloroform-d	4.65	84	362924	61.54	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	123.08%
26) 1,2-Dichloroethane-d4	5.31	65	185077	47.96	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.92%
32) Benzene-d6	5.35	84	567223	41.55	ug/L	0.01
Spiked Amount	50.000	Range	70 - 125	Recovery	=	83.10%
36) 1,2-Dichloropropane-d6	6.33	67	198443	42.49	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	84.98%
41) Toluene-d8	7.56	98	513549	41.89	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	83.78%
43) trans-1,3-Dichloropropene-	7.85	79	85071	38.74	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	77.48%
47) 2-Hexanone-d5	8.31	63	208317	82.31	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	82.31%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	293086	43.85	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	87.70%
64) 1,2-Dichlorobenzene-d4	11.92	152	295004	3738.73	ug/L	0.06
Spiked Amount	50.000	Range	80 - 120	Recovery	=	7477.46%#

Target Compounds

					Qvalue
3) Chloromethane	1.33	50	3452	0.658 ug/L	97
8) Chloroethane	1.57	64	1683	0.599 ug/L #	60
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	1769	0.570 ug/L #	21
13) Acetone	2.32	43	144973	44.550 ug/L	100
16) Methylene chloride	2.70	84	5784	1.612 ug/L	95
25) Chloroform	4.67	83	2351785	377.637 ug/L	99
27) 1,2-Dichloroethane	5.42	62	1323416	270.817 ug/L #	75
29) Cyclohexane	5.00	56	65977	9.159 ug/L	98
31) Carbon tetrachloride	5.13	117	750189	151.849 ug/L	98
34) Trichloroethene	6.19	95	9812	2.463 ug/L	92
35) Methylcyclohexane	6.41	83	24816	3.786 ug/L #	85
38) Bromodichloromethane	6.76	83	24950	4.566 ug/L	98
40) 4-Methyl-2-pentanone	7.47	43	3724	0.482 ug/L #	84
42) Toluene	7.64	91	56542	3.362 ug/L	99
44) trans-1,3-Dichloropropene	7.85	75	3548	0.610 ug/L	97
46) Tetrachloroethene	8.23	164	6448	2.318 ug/L	91
48) 2-Hexanone	8.32	43	26087	4.121 ug/L #	69

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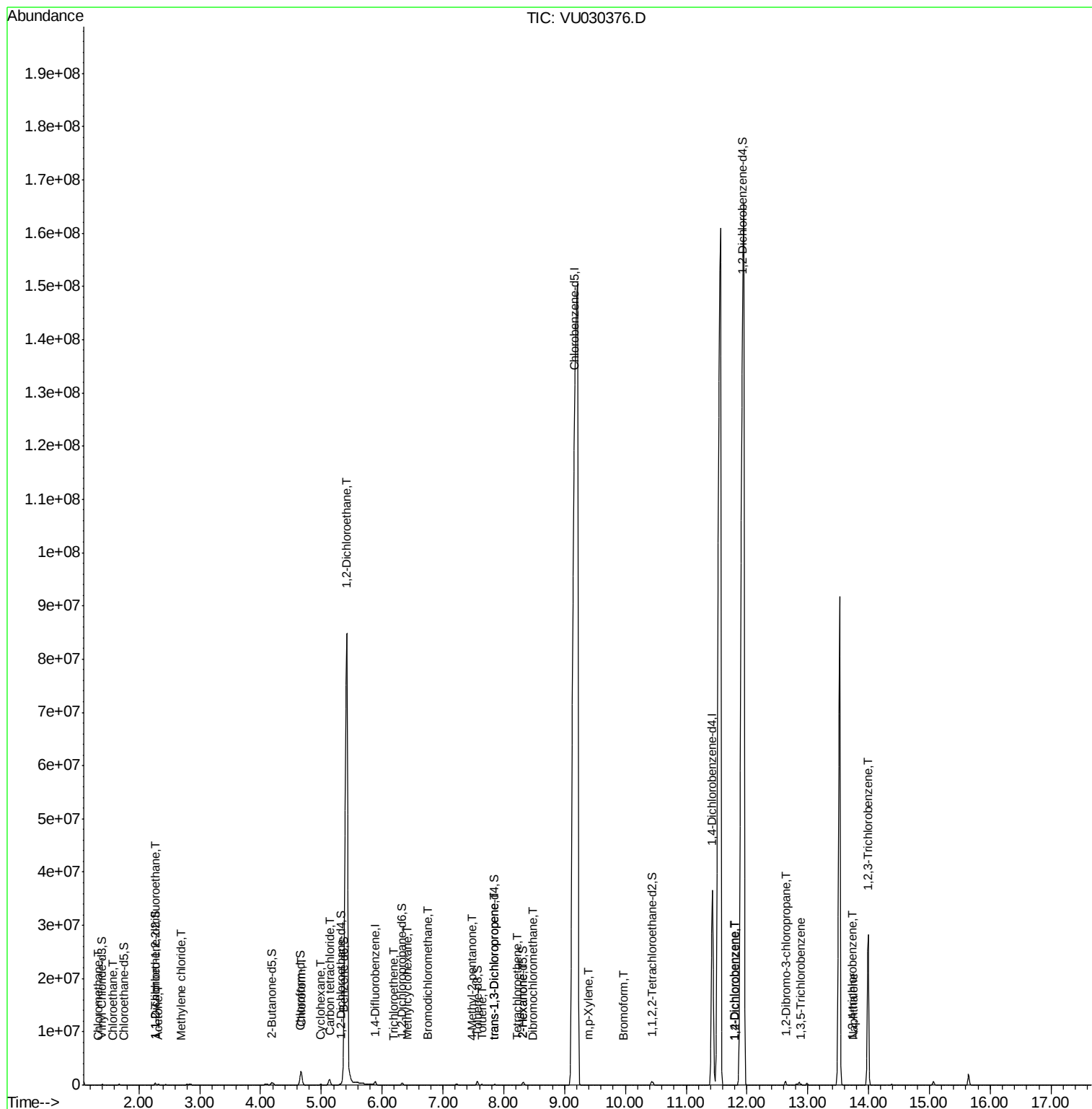
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Dibromochloromethane	8.48	129	7842	1.942	ug/L	95
53) m,p-Xylene	9.39	106	5109	0.777	ug/L	94
61) Bromoform	9.97	173	2718	51.912	ug/L #	90
63) 1,4-Dichlorobenzene	11.80	146	214	1.614	ug/L	91
65) 1,2-Dichlorobenzene	11.81	146	158	1.213	ug/L	94
66) 1,2-Dibromo-3-chloropropan	12.63	75	123140	4246.893	ug/L #	7
67) 1,3,5-Trichlorobenzene	12.89	180	18886	195.892	ug/L	98
68) 1,2,4-trichlorobenzene	13.73	180	138	1.647	ug/L #	1
69) Naphthalene	13.74	128	26804	89.986	ug/L	97
70) 1,2,3-Trichlorobenzene	13.99	180	8344655	94337.065	ug/L	100

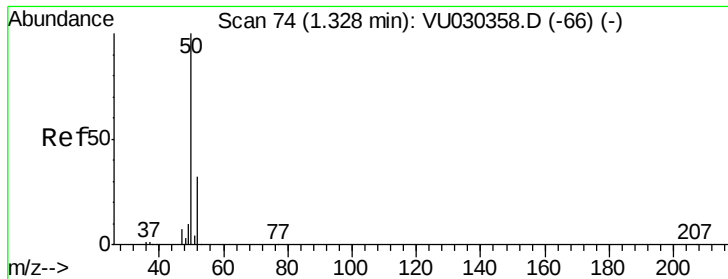
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.658 ug/L

RT: 1.33 min Scan# 74

Delta R.T. 0.00 min

Lab File: VU030376.D

Acq: 24 Mar 2019 17:24

Instrument :

MSVOA_U

ClientSampleId :

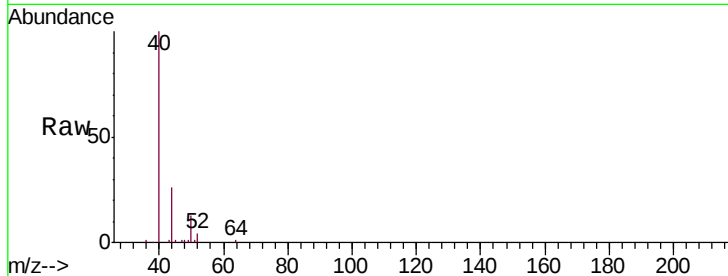
C0987

Tgt Ion: 50 Resp: 3452

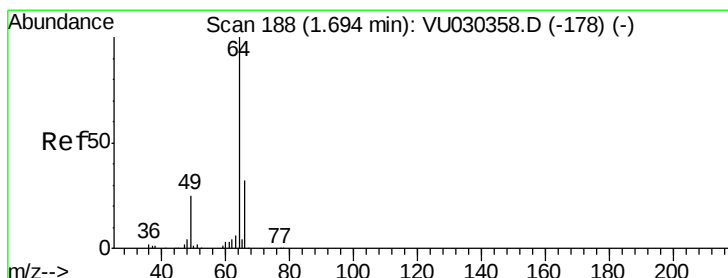
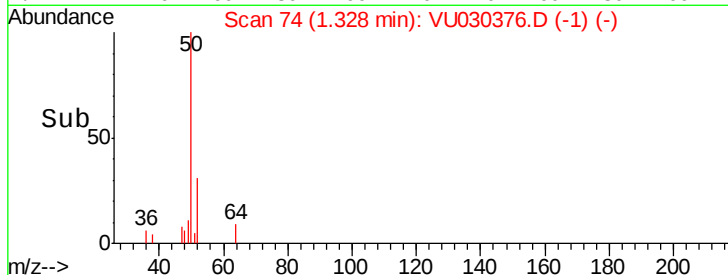
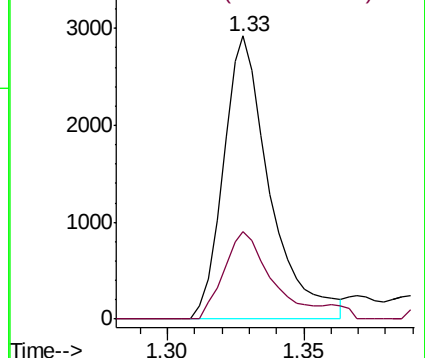
Ion Ratio Lower Upper

50 100

52 31.1 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VU030376.D (-1) (-)



#8

Chloroethane

Concen: 0.599 ug/L

RT: 1.57 min Scan# 149

Delta R.T. -0.13 min

Lab File: VU030376.D

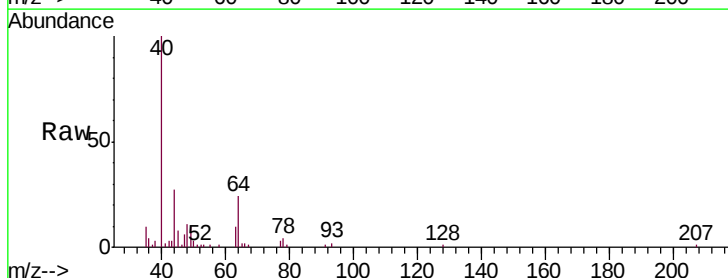
Acq: 24 Mar 2019 17:24

Tgt Ion: 64 Resp: 1683

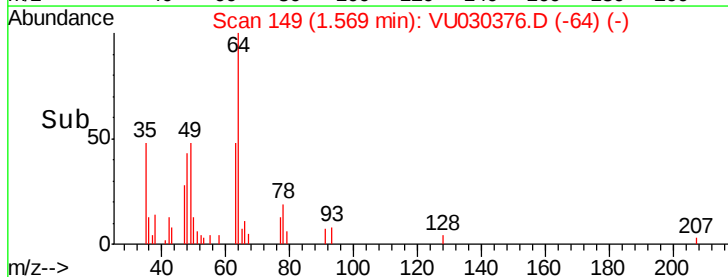
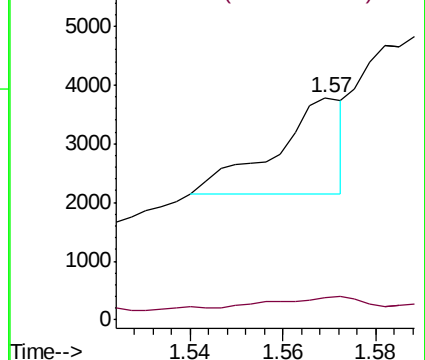
Ion Ratio Lower Upper

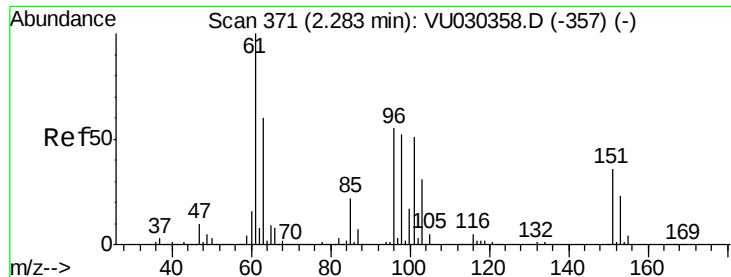
64 100

66 9.9 22.5 41.7#



Abundance Ion 64.00 (63.70 to 64.70): VU030376.D (-64) (-)





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.570 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.01 min

Lab File: VU030376.D

Acq: 24 Mar 2019 17:24

Instrument :

MSVOA_U

ClientSampleId :

C0987

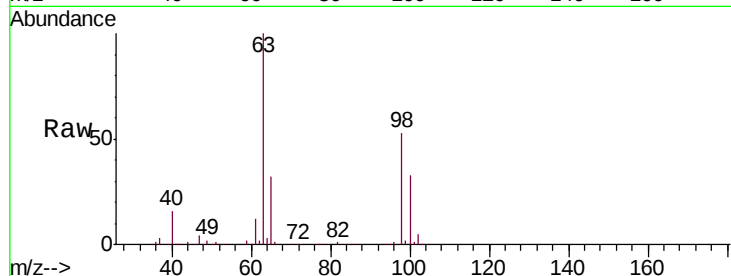
Tgt Ion: 101 Resp: 1769

Ion Ratio Lower Upper

101 100

85 0.0 34.8 52.2#

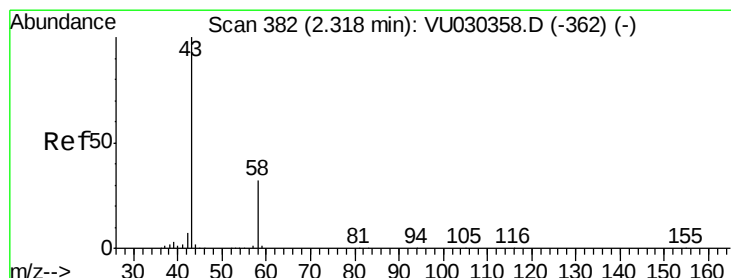
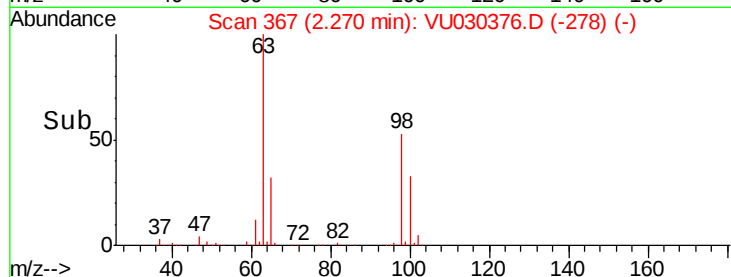
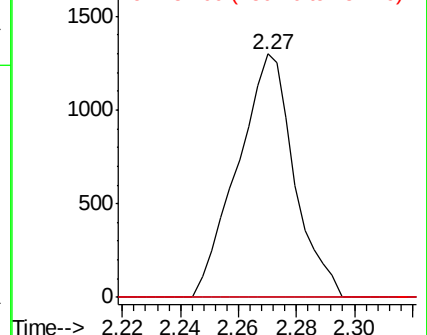
151 0.0 56.6 85.0#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#13

Acetone

Concen: 44.550 ug/L

RT: 2.32 min Scan# 383

Delta R.T. 0.00 min

Lab File: VU030376.D

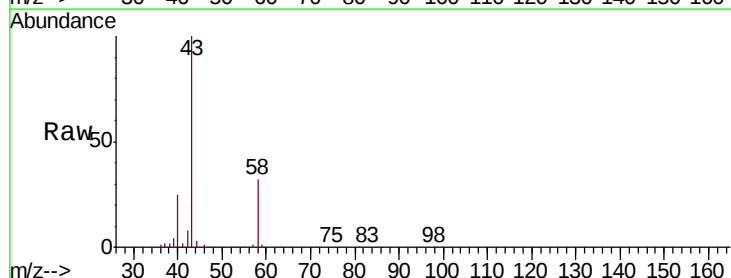
Acq: 24 Mar 2019 17:24

Tgt Ion: 43 Resp: 144973

Ion Ratio Lower Upper

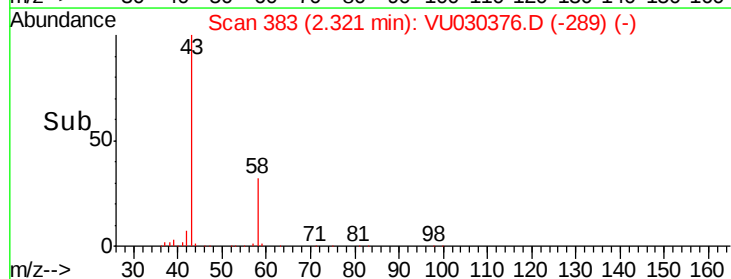
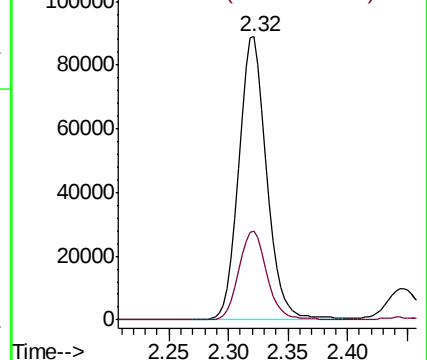
43 100

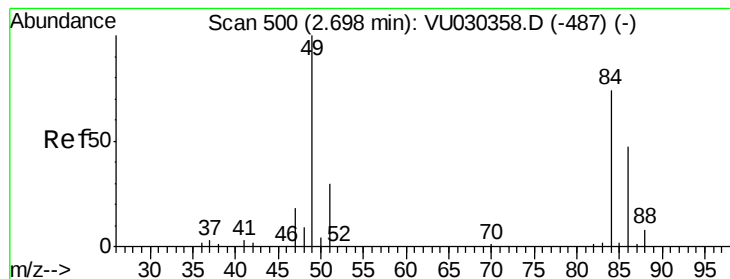
58 31.6 0.0 62.8



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0





#16

Methylene chloride

Concen: 1.612 ug/L

RT: 2.70 min Scan# 500

Delta R.T. 0.00 min

Lab File: VU030376.D

Acq: 24 Mar 2019 17:24

Instrument :

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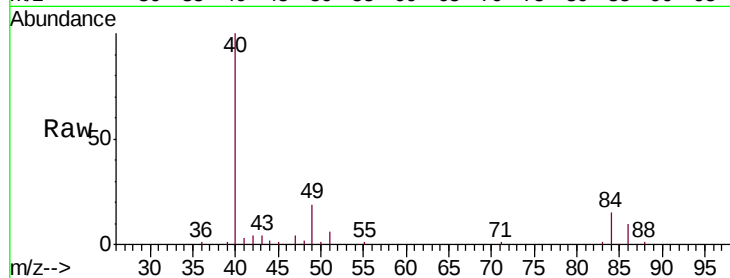
Tgt Ion: 84 Resp: 5784

Ion Ratio Lower Upper

84 100

86 65.5 44.3 82.3

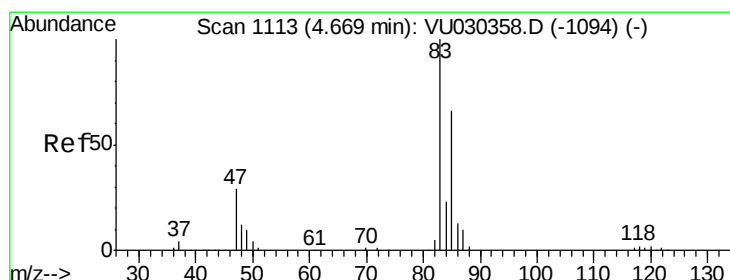
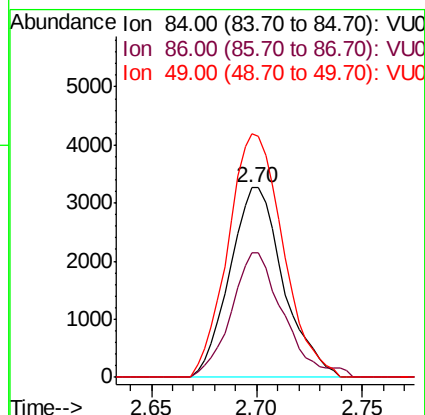
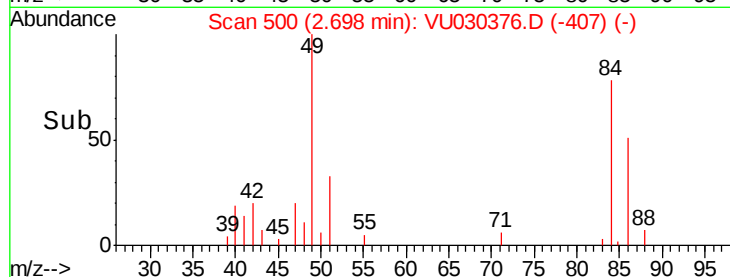
49 128.3 94.9 176.3



Abundance Ion 84.00 (83.70 to 84.70): VU030376.D (-1020) (-)

Ion 86.00 (85.70 to 86.70): VU030376.D (-1020) (-)

Ion 49.00 (48.70 to 49.70): VU030376.D (-1020) (-)



#25

Chloroform

Concen: 377.637 ug/L

RT: 4.67 min Scan# 1113

Delta R.T. 0.00 min

Lab File: VU030376.D

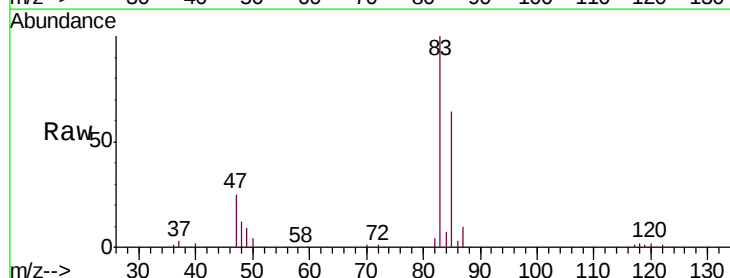
Acq: 24 Mar 2019 17:24

Tgt Ion: 83 Resp: 2351785

Ion Ratio Lower Upper

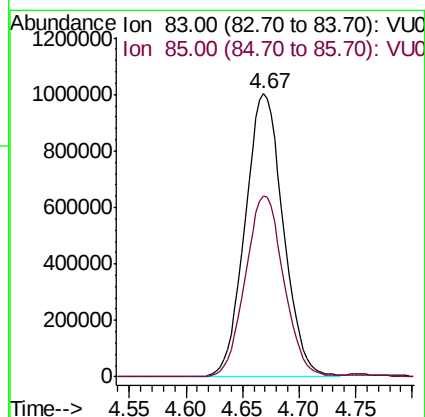
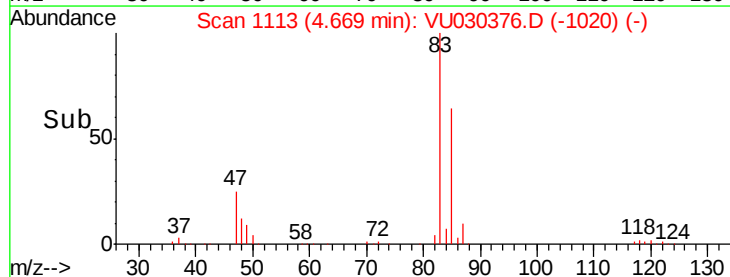
83 100

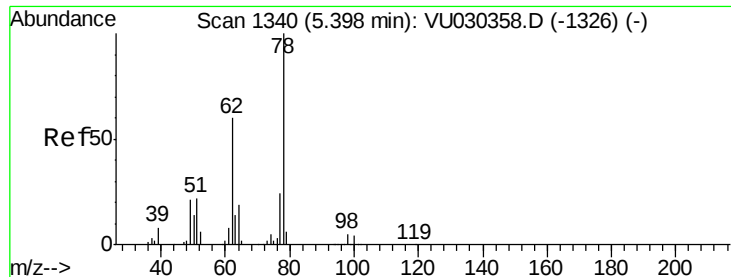
85 64.1 44.4 82.4



Abundance Ion 83.00 (82.70 to 83.70): VU030376.D (-1020) (-)

Ion 85.00 (84.70 to 85.70): VU030376.D (-1020) (-)

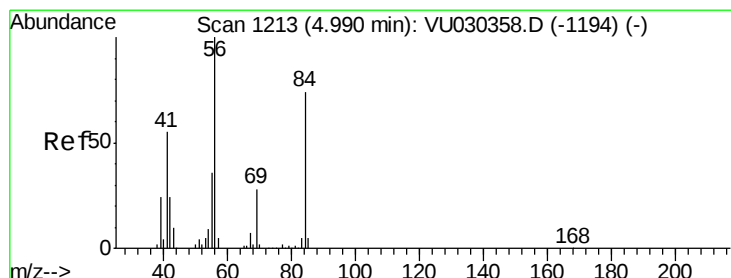
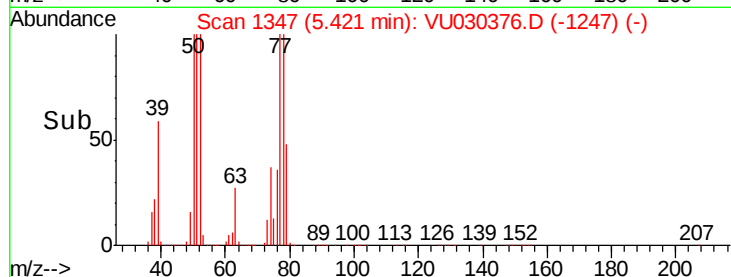
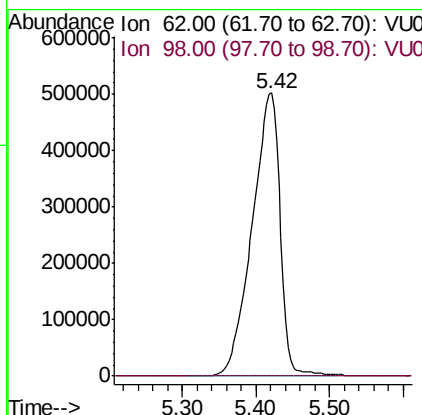
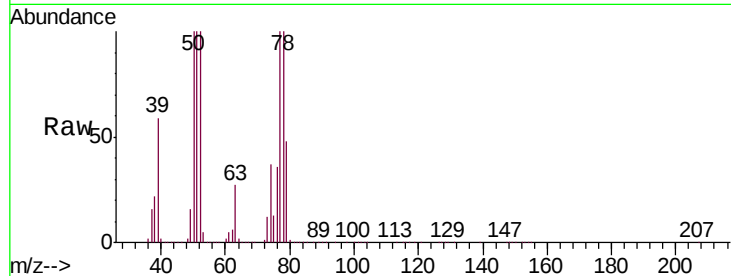




#27
 1,2-Dichloroethane
 Concen: 270.817 ug/L
 RT: 5.42 min Scan# 1347
 Delta R.T. 0.02 min
 Lab File: VU030376.D
 Acq: 24 Mar 2019 17:24

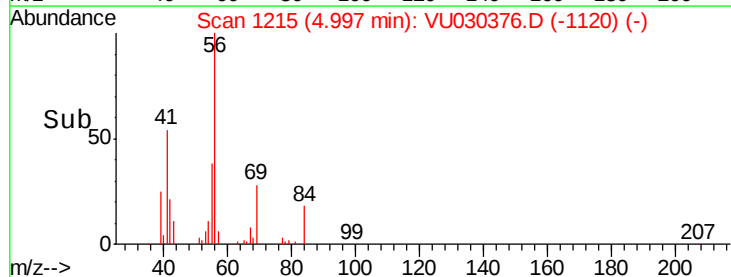
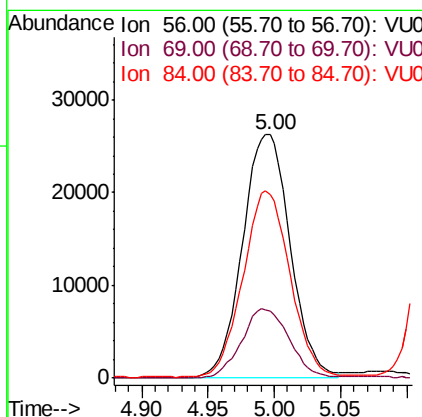
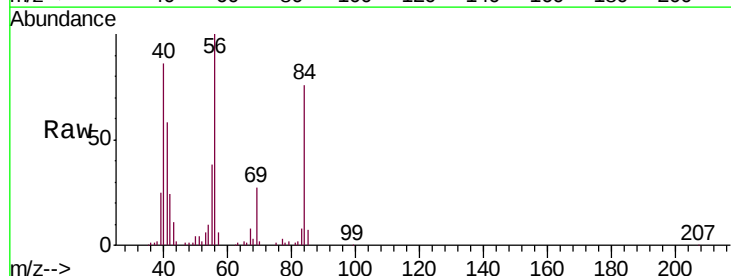
Instrument :
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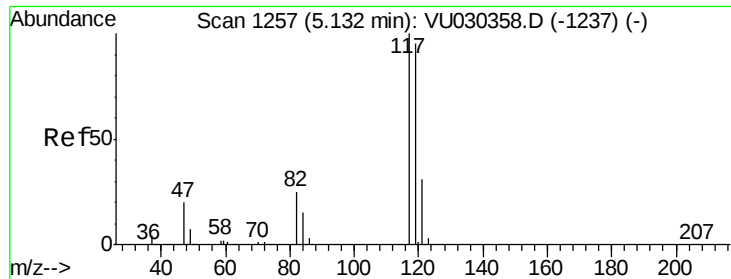
Tgt Ion: 62 Resp: 1323416
 Ion Ratio Lower Upper
 62 100
 98 0.0 7.2 10.8#



#29
 Cyclohexane
 Concen: 9.159 ug/L
 RT: 5.00 min Scan# 1215
 Delta R.T. 0.01 min
 Lab File: VU030376.D
 Acq: 24 Mar 2019 17:24

Tgt Ion: 56 Resp: 65977
 Ion Ratio Lower Upper
 56 100
 69 28.3 22.9 34.3
 84 76.2 58.9 88.3





#31

Carbon tetrachloride

Concen: 151.849 ug/L

RT: 5.13 min Scan# 1258

Delta R.T. 0.00 min

Lab File: VU030376.D

Acq: 24 Mar 2019 17:24

Instrument :

MSVOA_U

ClientSampleId :

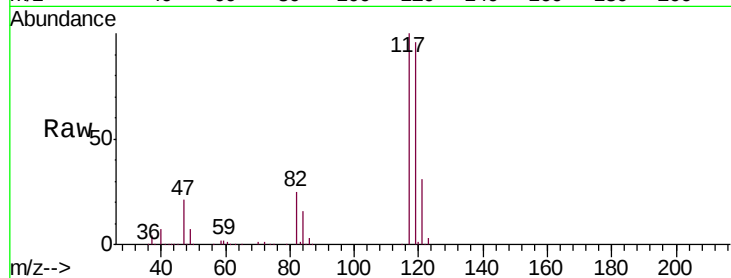
C0987

Tgt Ion:117 Resp: 750189

Ion Ratio Lower Upper

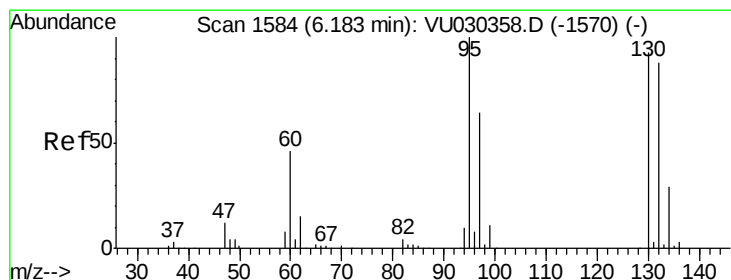
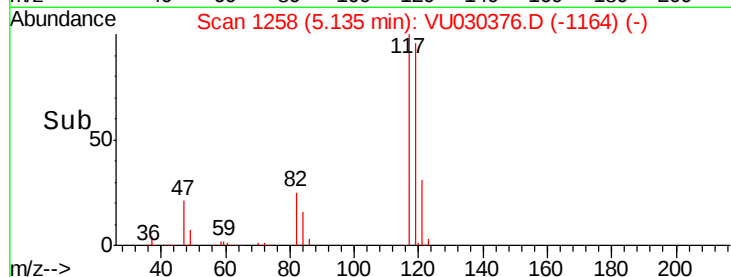
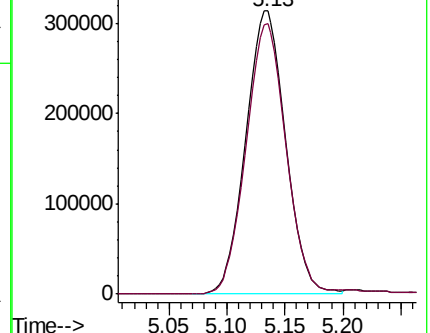
117 100

119 95.8 75.4 113.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Trichloroethene

Concen: 2.463 ug/L

RT: 6.19 min Scan# 1585

Delta R.T. 0.00 min

Lab File: VU030376.D

Acq: 24 Mar 2019 17:24

Tgt Ion: 95 Resp: 9812

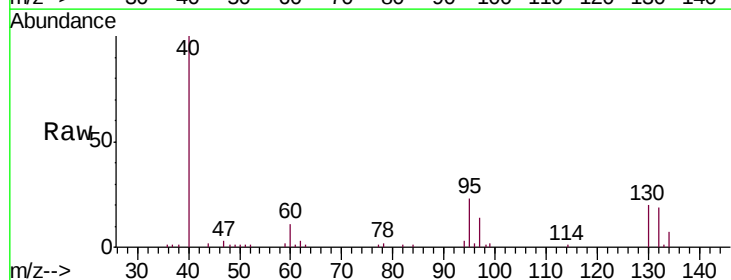
Ion Ratio Lower Upper

95 100

97 61.5 45.7 84.9

132 82.2 63.8 118.4

130 84.8 65.7 121.9

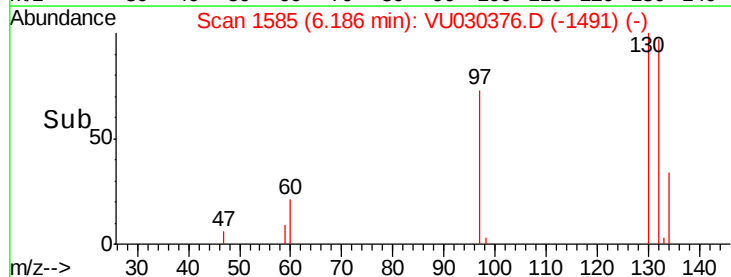
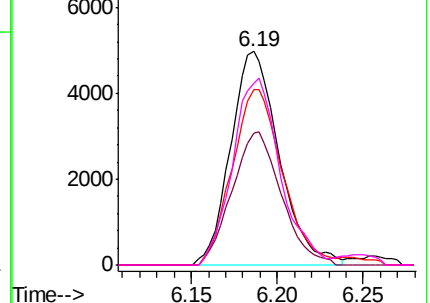


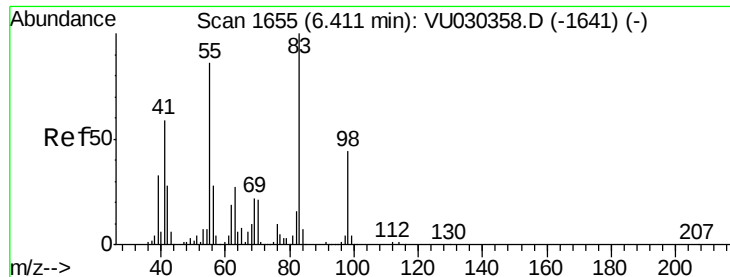
Abundance Ion 95.00 (94.70 to 95.70): VU0

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

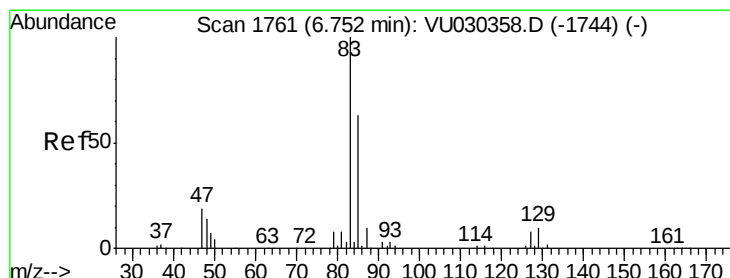
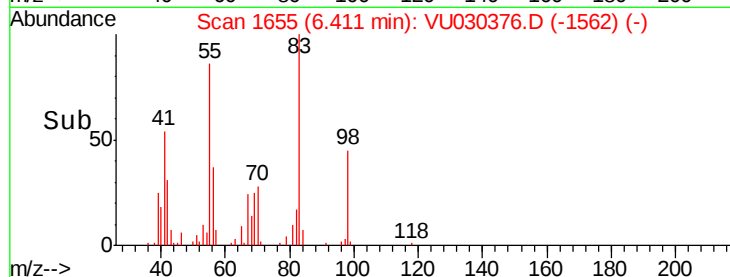
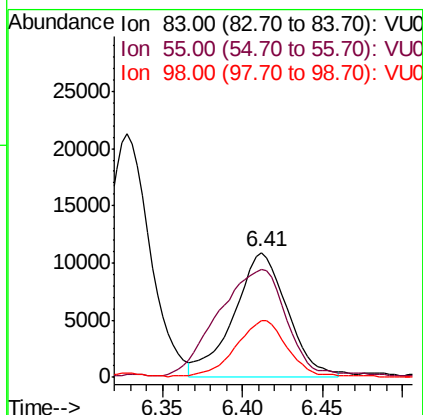
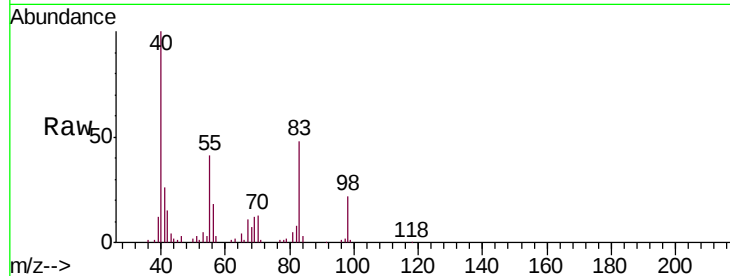




#35
Methylcyclohexane
Concen: 3.786 ug/L
RT: 6.41 min Scan# 1655
Delta R.T. 0.00 min
Lab File: VU030376.D
Acq: 24 Mar 2019 17:24

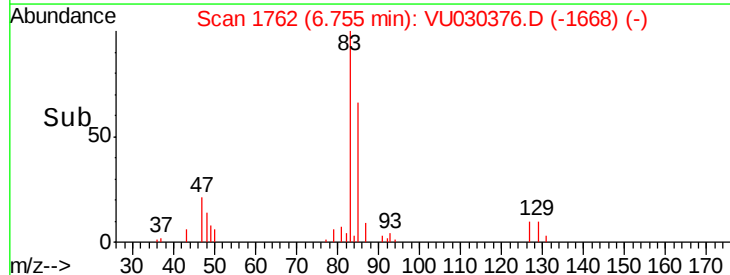
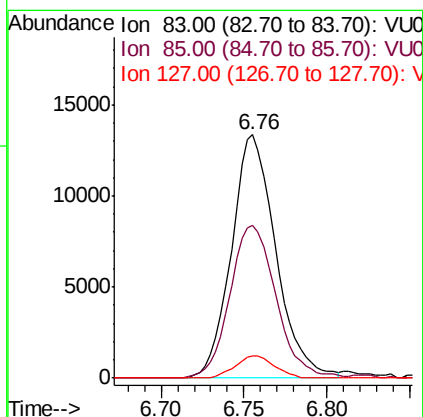
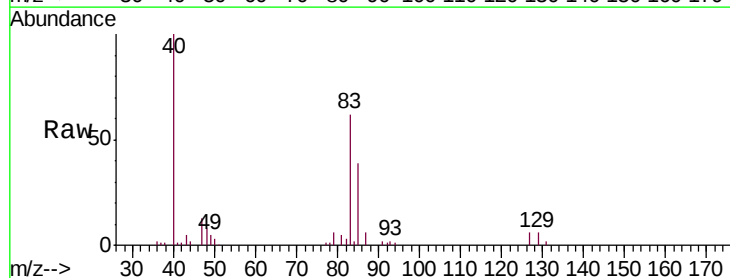
Instrument :
MSVOA_U
ClientSampled :
C0987

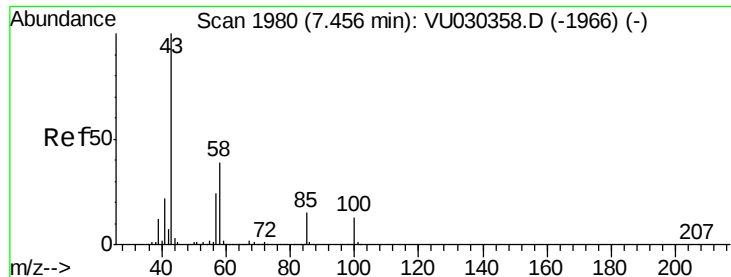
Tgt Ion: 83 Resp: 24816
Ion Ratio Lower Upper
83 100
55 109.3 71.4 107.0#
98 43.6 36.0 54.0



#38
Bromodichloromethane
Concen: 4.566 ug/L
RT: 6.76 min Scan# 1762
Delta R.T. 0.00 min
Lab File: VU030376.D
Acq: 24 Mar 2019 17:24

Tgt Ion: 83 Resp: 24950
Ion Ratio Lower Upper
83 100
85 62.9 45.0 83.6
127 9.2 6.6 10.0

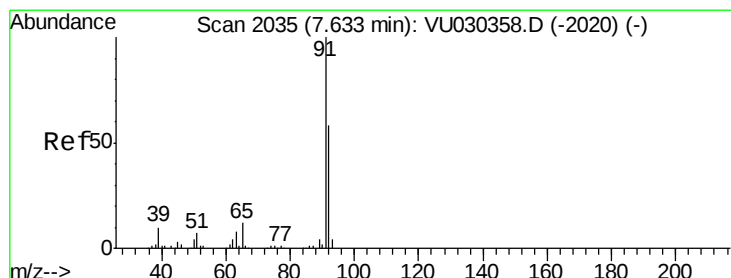
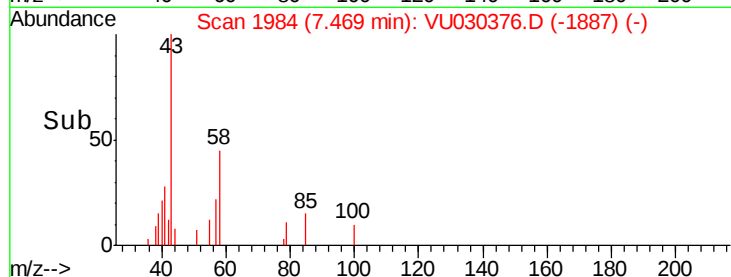
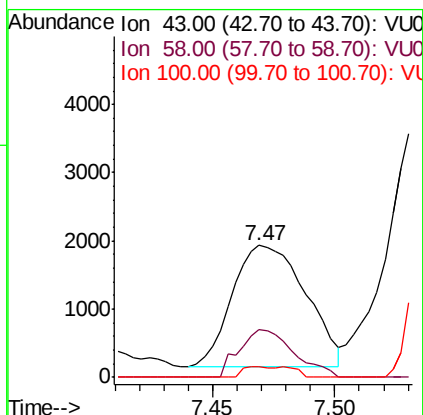
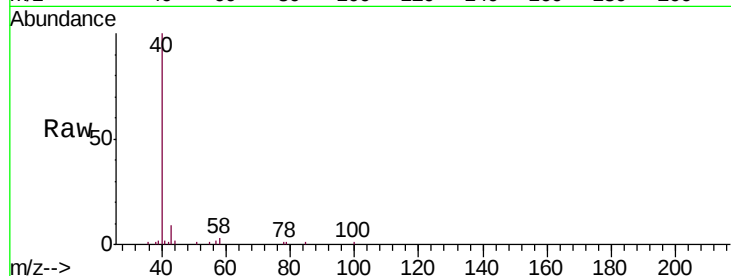




#40
4-Methyl-2-pentanone
Concen: 0.482 ug/L
RT: 7.47 min Scan# 1984
Delta R.T. 0.01 min
Lab File: VU030376.D
Acq: 24 Mar 2019 17:24

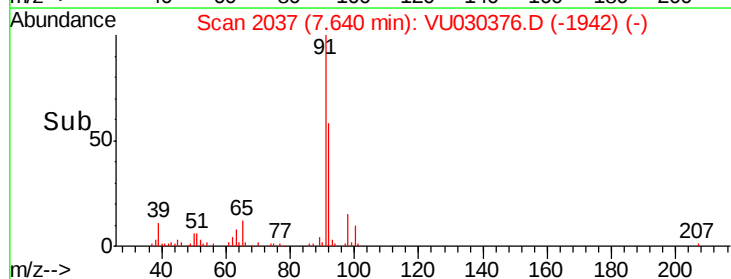
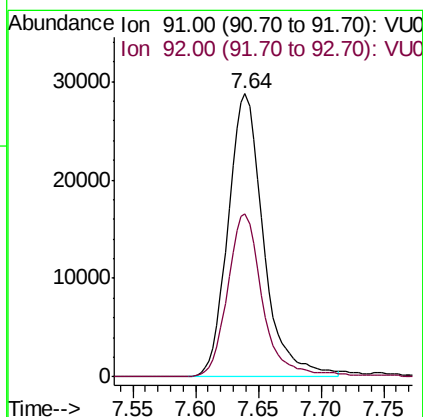
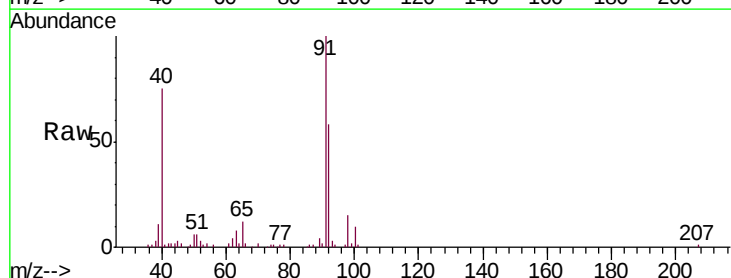
Instrument :
MSVOA_U
ClientSampleId :
C0987

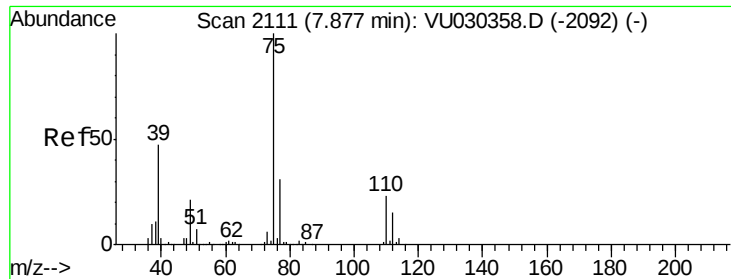
Tgt Ion: 43 Resp: 3724
Ion Ratio Lower Upper
43 100
58 29.3 30.6 45.8#
100 3.7 9.5 14.3#



#42
Toluene
Concen: 3.362 ug/L
RT: 7.64 min Scan# 2037
Delta R.T. 0.01 min
Lab File: VU030376.D
Acq: 24 Mar 2019 17:24

Tgt Ion: 91 Resp: 56542
Ion Ratio Lower Upper
91 100
92 57.7 39.7 73.7





#44

trans-1,3-Dichloropropene

Concen: 0.610 ug/L

RT: 7.85 min Scan# 2103

Delta R.T. -0.03 min

Lab File: VU030376.D

Acq: 24 Mar 2019 17:24

Instrument :

MSVOA_U

ClientSampleId :

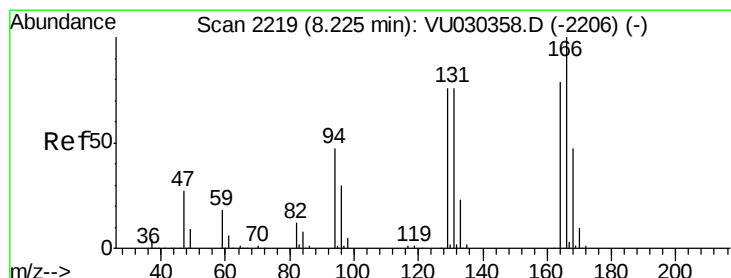
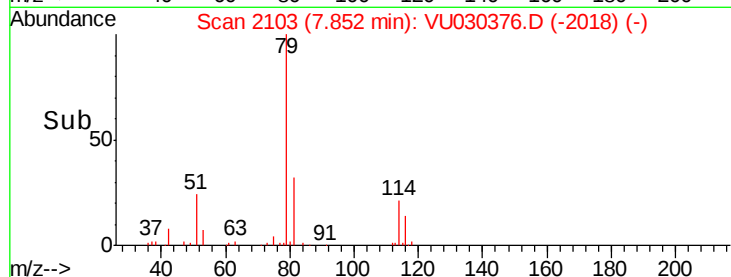
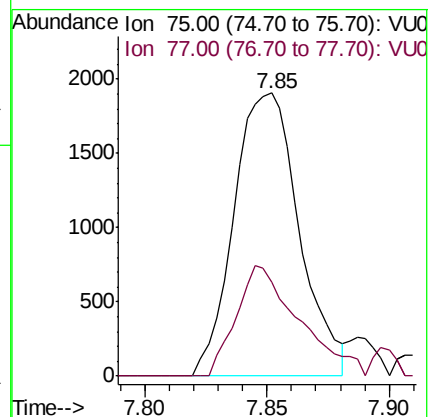
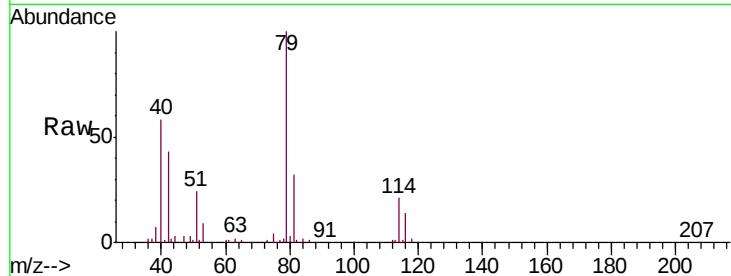
C0987

Tgt Ion: 75 Resp: 3548

Ion Ratio Lower Upper

75 100

77 33.1 22.0 40.8



#46

Tetrachloroethene

Concen: 2.318 ug/L

RT: 8.23 min Scan# 2220

Delta R.T. 0.00 min

Lab File: VU030376.D

Acq: 24 Mar 2019 17:24

Tgt Ion: 164 Resp: 6448

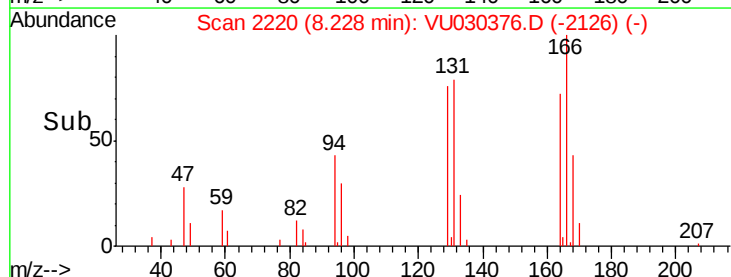
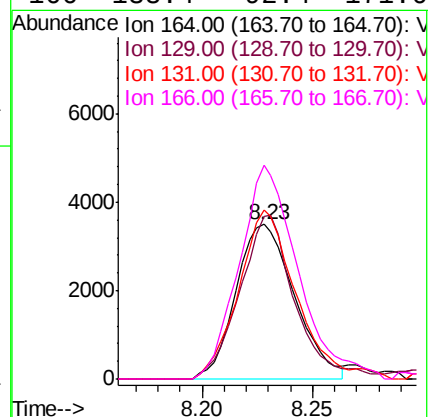
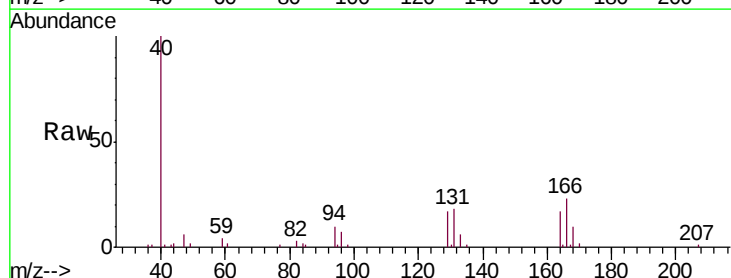
Ion Ratio Lower Upper

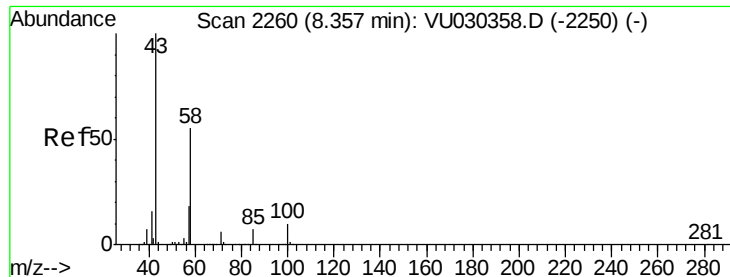
164 100

129 105.7 68.1 126.5

131 109.6 67.7 125.7

166 138.4 92.4 171.6

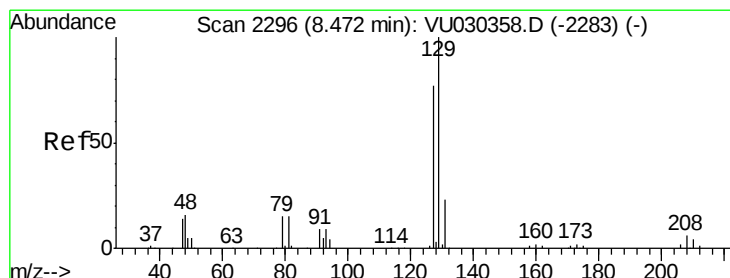
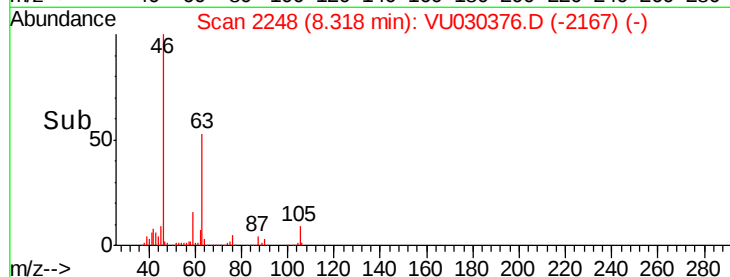
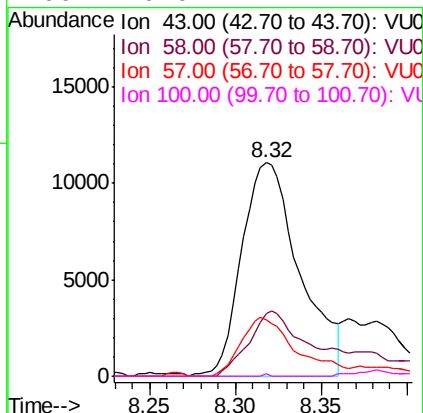
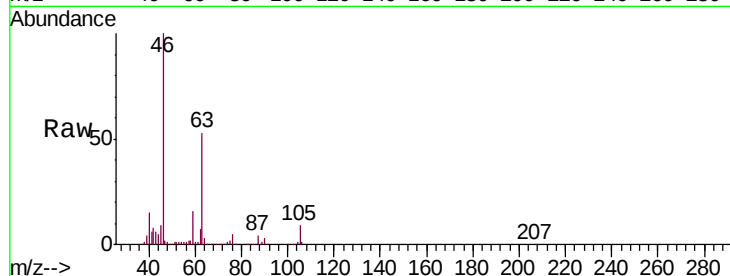




#48
2-Hexanone
Concen: 4.121 ug/L
RT: 8.32 min Scan# 2248
Delta R.T. -0.04 min
Lab File: VU030376.D
Acq: 24 Mar 2019 17:24

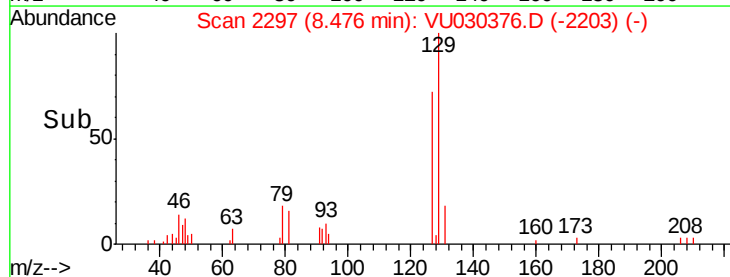
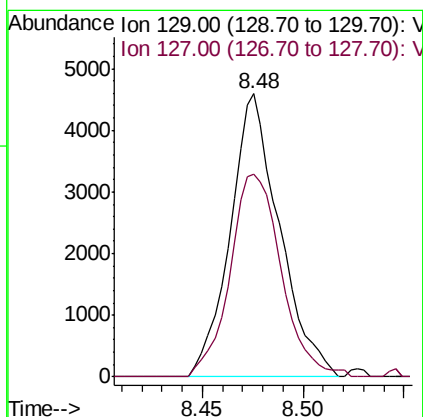
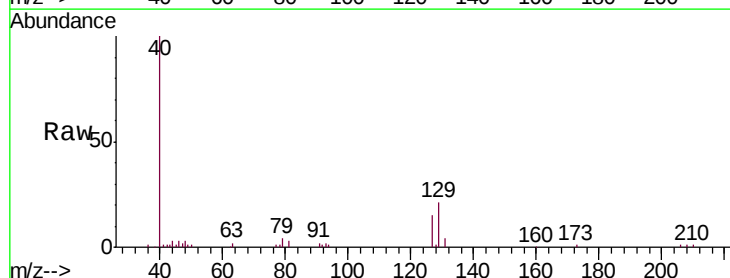
Instrument :
MSVOA_U
ClientSampleId :
C0987

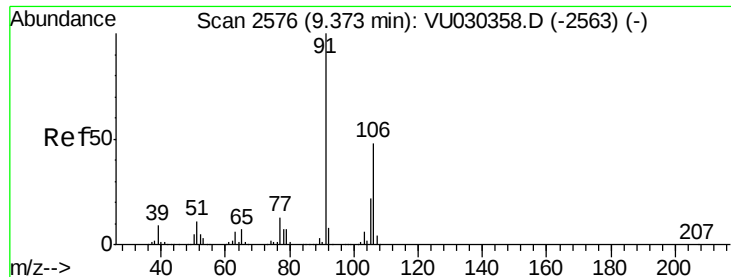
Tgt Ion: 43 Resp: 26087
Ion Ratio Lower Upper
43 100
58 26.9 42.5 63.7#
57 26.2 15.0 22.6#
100 0.0 7.4 11.2#



#49
Dibromochloromethane
Concen: 1.942 ug/L
RT: 8.48 min Scan# 2297
Delta R.T. 0.00 min
Lab File: VU030376.D
Acq: 24 Mar 2019 17:24

Tgt Ion: 129 Resp: 7842
Ion Ratio Lower Upper
129 100
127 71.6 53.2 98.8





#53

m,p-Xylene

Concen: 0.777 ug/L

RT: 9.39 min Scan# 2580

Delta R.T. 0.01 min

Lab File: VU030376.D

Acq: 24 Mar 2019 17:24

Instrument :

MSVOA_U

ClientSampleId :

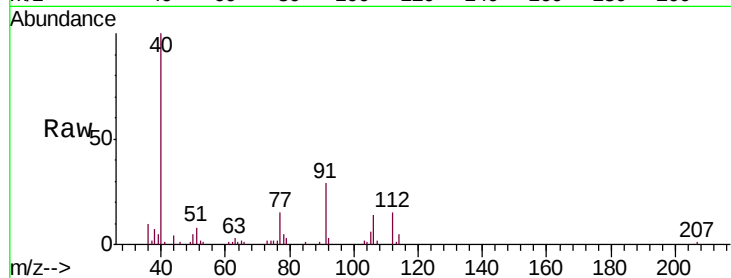
C0987

Tgt Ion:106 Resp: 5109

Ion Ratio Lower Upper

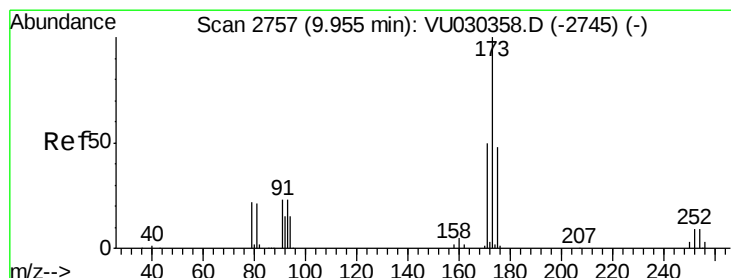
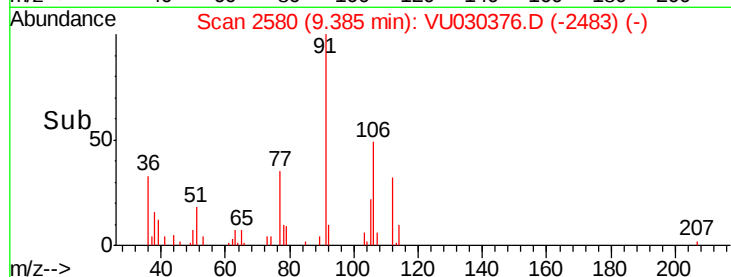
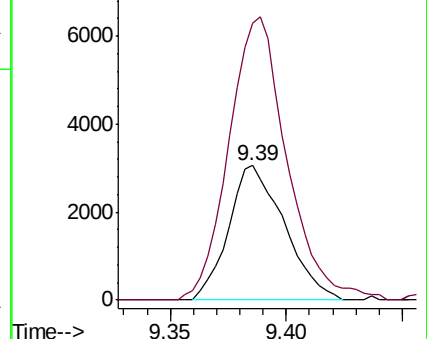
106 100

91 205.9 151.2 280.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#61

Bromoform

Concen: 51.912 ug/L

RT: 9.97 min Scan# 2761

Delta R.T. 0.01 min

Lab File: VU030376.D

Acq: 24 Mar 2019 17:24

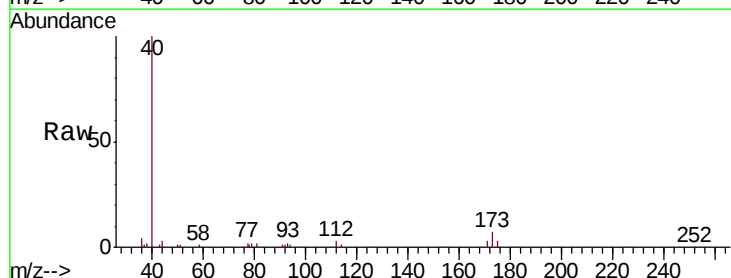
Tgt Ion:173 Resp: 2718

Ion Ratio Lower Upper

173 100

175 42.4 38.5 57.7

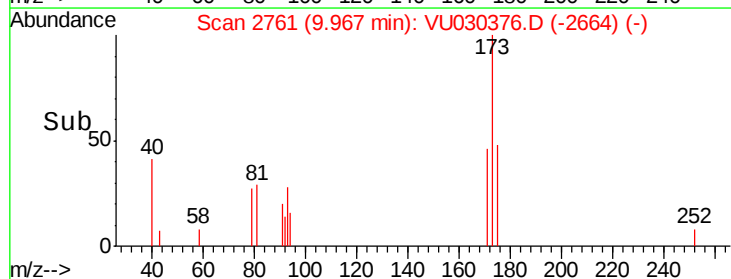
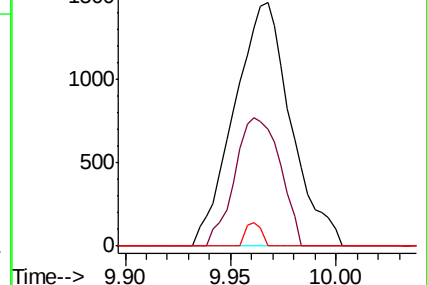
254 2.6 6.8 10.2#

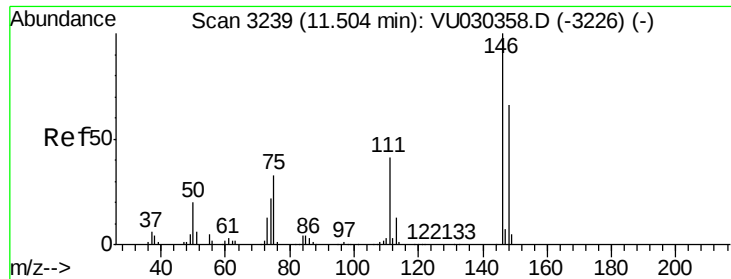


Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V

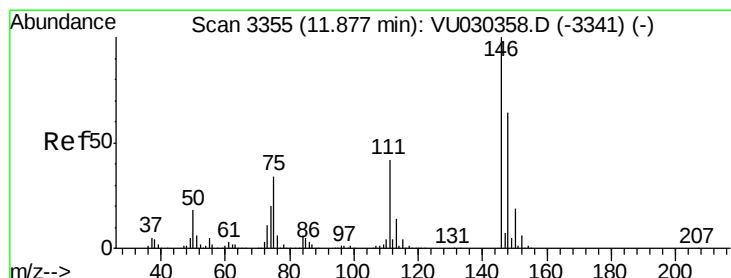
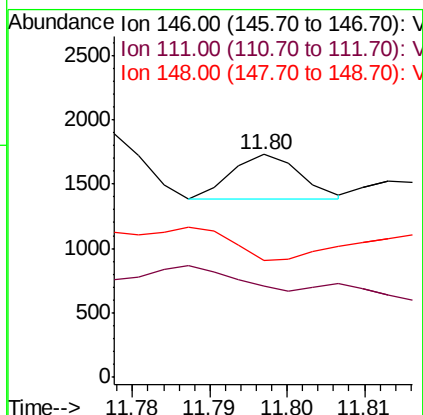
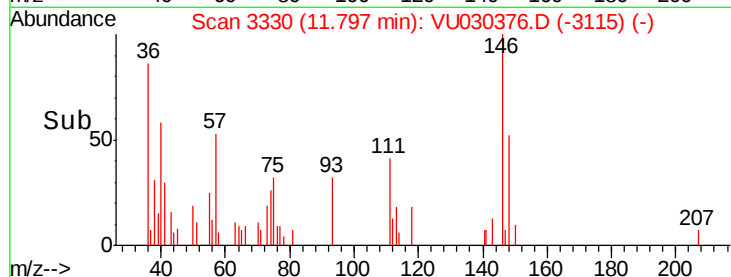
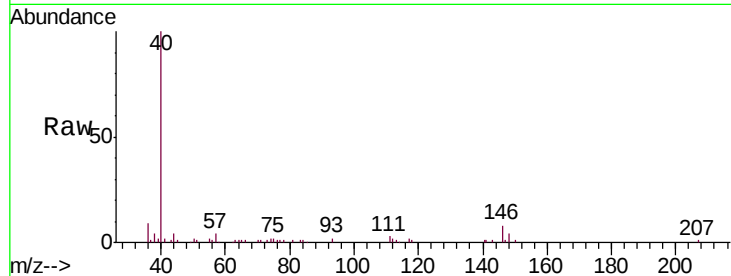




#63
 1,4-Dichlorobenzene
 Concen: 1.614 ug/L
 RT: 11.80 min Scan# 3330
 Delta R.T. 0.29 min
 Lab File: VU030376.D
 Acq: 24 Mar 2019 17:24

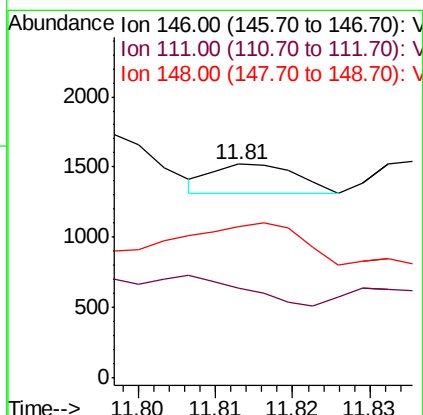
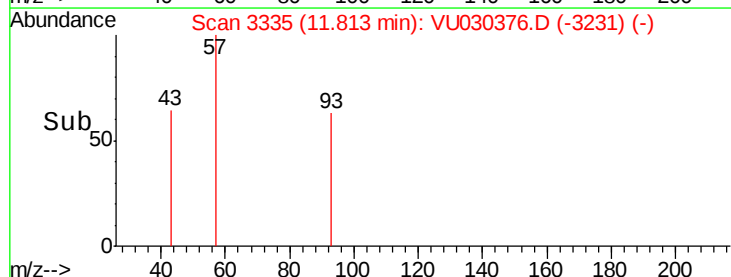
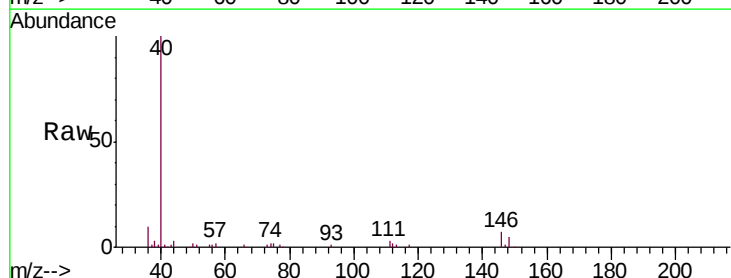
Instrument :
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 ClientSampleId :
 C0987

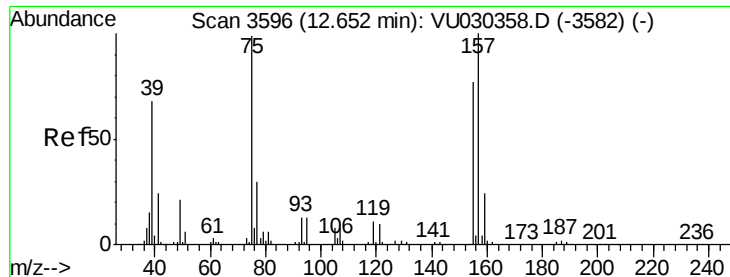
Tgt Ion:146 Resp: 214
 Ion Ratio Lower Upper
 146 100
 111 40.7 28.7 53.3
 148 52.2 44.3 82.3



#65
 1,2-Dichlorobenzene
 Concen: 1.213 ug/L
 RT: 11.81 min Scan# 3335
 Delta R.T. -0.06 min
 Lab File: VU030376.D
 Acq: 24 Mar 2019 17:24

Tgt Ion:146 Resp: 158
 Ion Ratio Lower Upper
 146 100
 111 41.8 34.9 52.3
 148 70.6 51.2 76.8

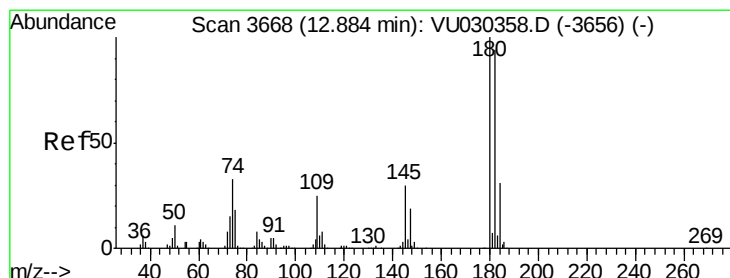
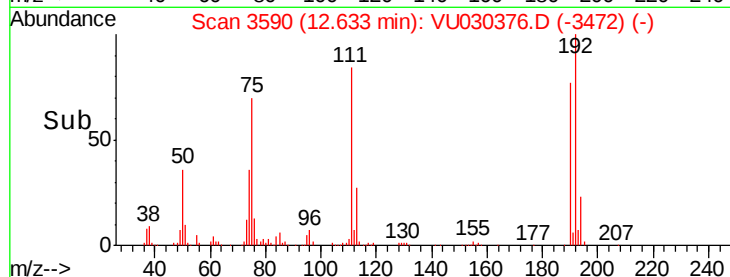
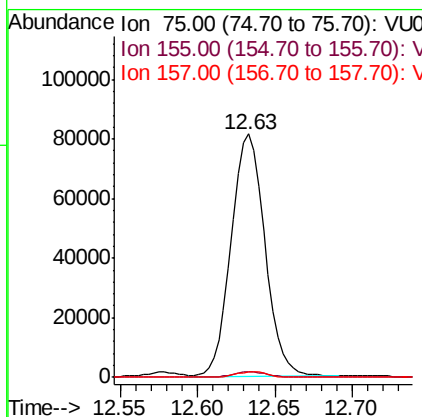
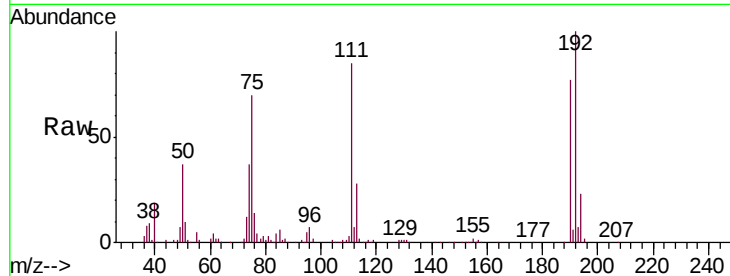




#66
 1,2-Dibromo-3-chloropropane
 Concen: 4246.893 ug/L
 RT: 12.63 min Scan# 3596
 Delta R.T. -0.02 min
 Lab File: VU030376.D
 Acq: 24 Mar 2019 17:24

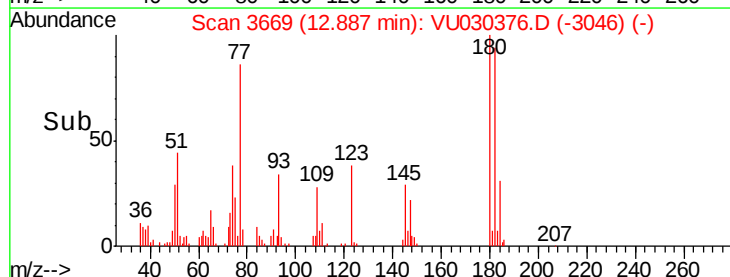
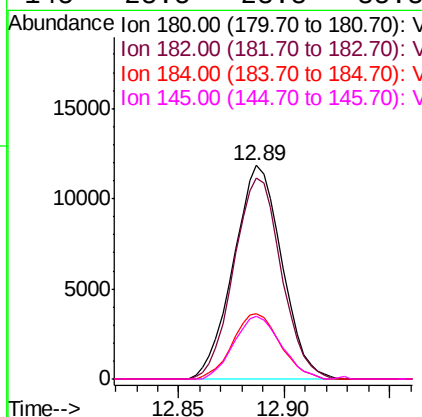
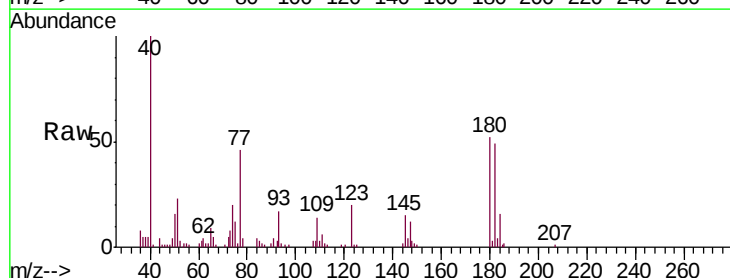
Instrument :
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 ClientSampled :
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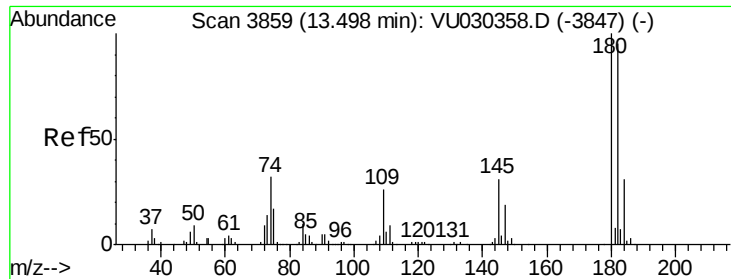
Tgt Ion: 75 Resp: 123140
 Ion Ratio Lower Upper
 75 100
 155 2.4 61.8 92.6#
 157 2.1 80.2 120.4#



#67
 1,3,5-Trichlorobenzene
 Concen: 195.892 ug/L
 RT: 12.89 min Scan# 3669
 Delta R.T. 0.00 min
 Lab File: VU030376.D
 Acq: 24 Mar 2019 17:24

Tgt Ion: 180 Resp: 18886
 Ion Ratio Lower Upper
 180 100
 182 92.3 75.9 113.9
 184 30.1 24.1 36.1
 145 28.5 23.8 35.8

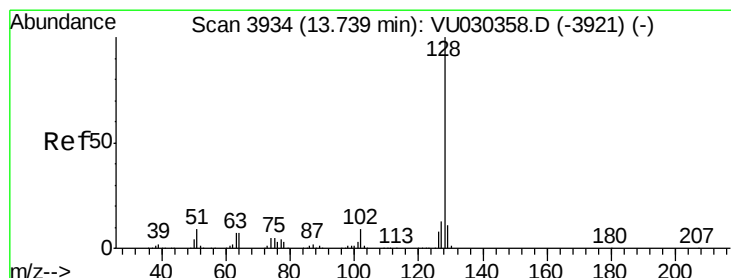
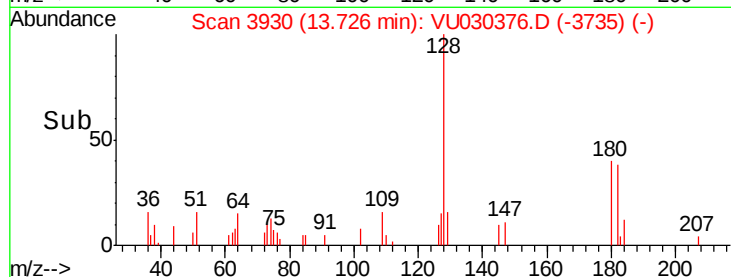
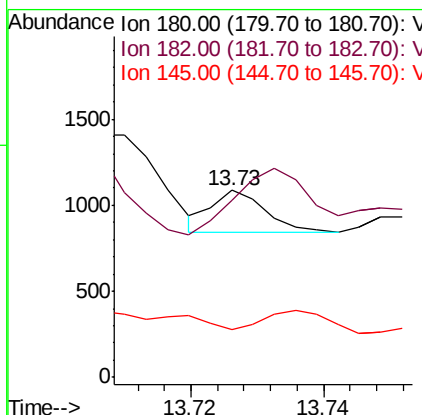
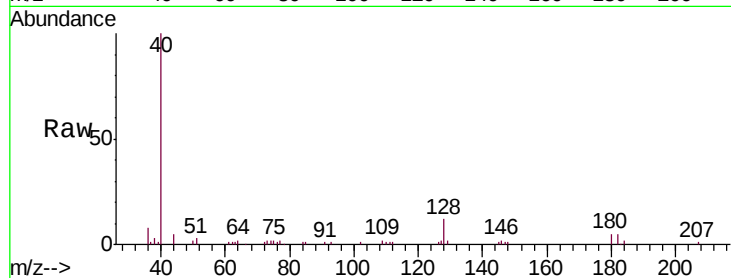




#68
 1,2,4-trichlorobenzene
 Concen: 1.647 ug/L
 RT: 13.73 min Scan# 3930
 Delta R.T. 0.23 min
 Lab File: VU030376.D
 Acq: 24 Mar 2019 17:24

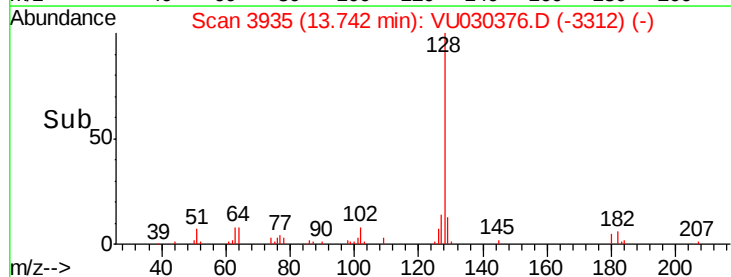
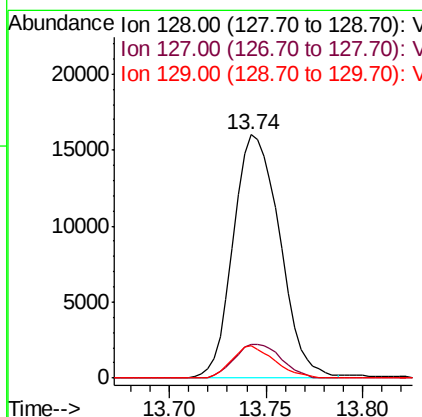
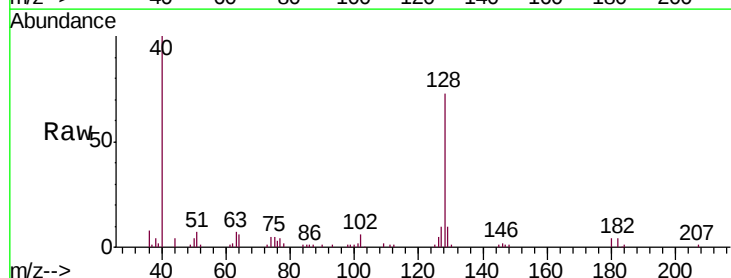
Instrument :
 MSVOA_U
 ClientSampleId :
 C0987

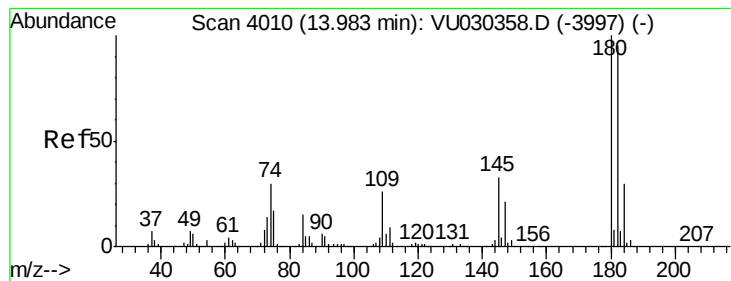
Tgt Ion:180 Resp: 138
 Ion Ratio Lower Upper
 180 100
 182 224.6 76.1 114.1#
 145 65.2 24.5 36.7#



#69
 Naphthalene
 Concen: 89.986 ug/L
 RT: 13.74 min Scan# 3935
 Delta R.T. 0.00 min
 Lab File: VU030376.D
 Acq: 24 Mar 2019 17:24

Tgt Ion:128 Resp: 26804
 Ion Ratio Lower Upper
 128 100
 127 14.0 10.4 15.6
 129 12.1 8.4 12.6





#70
 1,2,3-Trichlorobenzene
 Concen: 94337.065 ug/L
 RT: 13.99 min Scan# 4013
 Delta R.T. 0.01 min
 Lab File: VU030376.D
 Acq: 24 Mar 2019 17:24

Instrument :
 MSVOA_U
 ClientSampleId :
 C0987

Tgt Ion:180 Resp: 8344655
 Ion Ratio Lower Upper
 180 100
 182 96.2 77.4 116.2
 145 32.4 25.9 38.9

