

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU080918\
 Data File : VU025987.D
 Acq On : 09 Aug 2018 11:24
 Operator : MD/SY
 Sample : J4361-17
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 A4ZD5

Quant Time: Aug 10 11:09:43 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM080918WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Aug 10 05:14:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	310129	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	292856	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	147578	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	106665	47.05	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	94.10%
7) Chloroethane-d5	1.66	69	87976	48.95	ug/L	-0.02
Spiked Amount	50.000	Range	70 - 130	Recovery	=	97.90%
11) 1,1-Dichloroethene-d2	2.27	63	154590	35.89	ug/L	-0.01
Spiked Amount	50.000	Range	60 - 125	Recovery	=	71.78%
21) 2-Butanone-d5	4.18	46	176090	93.20	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	93.20%
24) Chloroform-d	4.65	84	234580	48.80	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.60%
26) 1,2-Dichloroethane-d4	5.31	65	155796	47.98	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.96%
32) Benzene-d6	5.34	84	448464	49.32	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.64%
36) 1,2-Dichloropropane-d6	6.33	67	142392	48.39	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	96.78%
41) Toluene-d8	7.57	98	430662	49.50	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.00%
43) trans-1,3-Dichloropropene-	7.85	79	74234	50.07	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	100.14%
47) 2-Hexanone-d5	8.31	63	133196	99.66	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	99.66%
57) 1,1,2,2-Tetrachloroethane-	10.44	84	211802	49.22	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	98.44%
64) 1,2-Dichlorobenzene-d4	11.86	152	182424	50.14	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.28%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.20	85	27324	10.11	ug/L	100
3) Chloromethane	1.33	50	75933	31.32	ug/L	97
6) Bromomethane	1.60	94	9354	7.48	ug/L	97
9) Trichlorofluoromethane	1.88	101	84954	25.38	ug/L	95
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	48383	24.85	ug/L	97
14) Carbon disulfide	2.47	76	136276	23.13	ug/L	99
17) trans-1,2-Dichloroethene	2.98	96	95094	47.67	ug/L	100
18) Methyl tert-butyl Ether	3.00	73	659985	100.66	ug/L	99
25) Chloroform	4.67	83	157917	39.19	ug/L	99
27) 1,2-Dichloroethane	5.41	62	127519	38.32	ug/L	99
30) 1,1,1-Trichloroethane	4.92	97	69254	18.74	ug/L	99
31) Carbon tetrachloride	5.14	117	137461	40.74	ug/L	99
35) Methylcyclohexane	6.42	83	83198	25.00	ug/L	100
39) cis-1,3-Dichloropropene	7.27	75	102757	29.71	ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	204096	65.08	ug/L	98
42) Toluene	7.64	91	434485	49.07	ug/L	98
45) 1,1,2-Trichloroethane	8.07	97	58259	26.77	ug/L	97

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 Quant Title : VOC Analysis
 QLast Update : Fri Aug 10 05:14:50 2018
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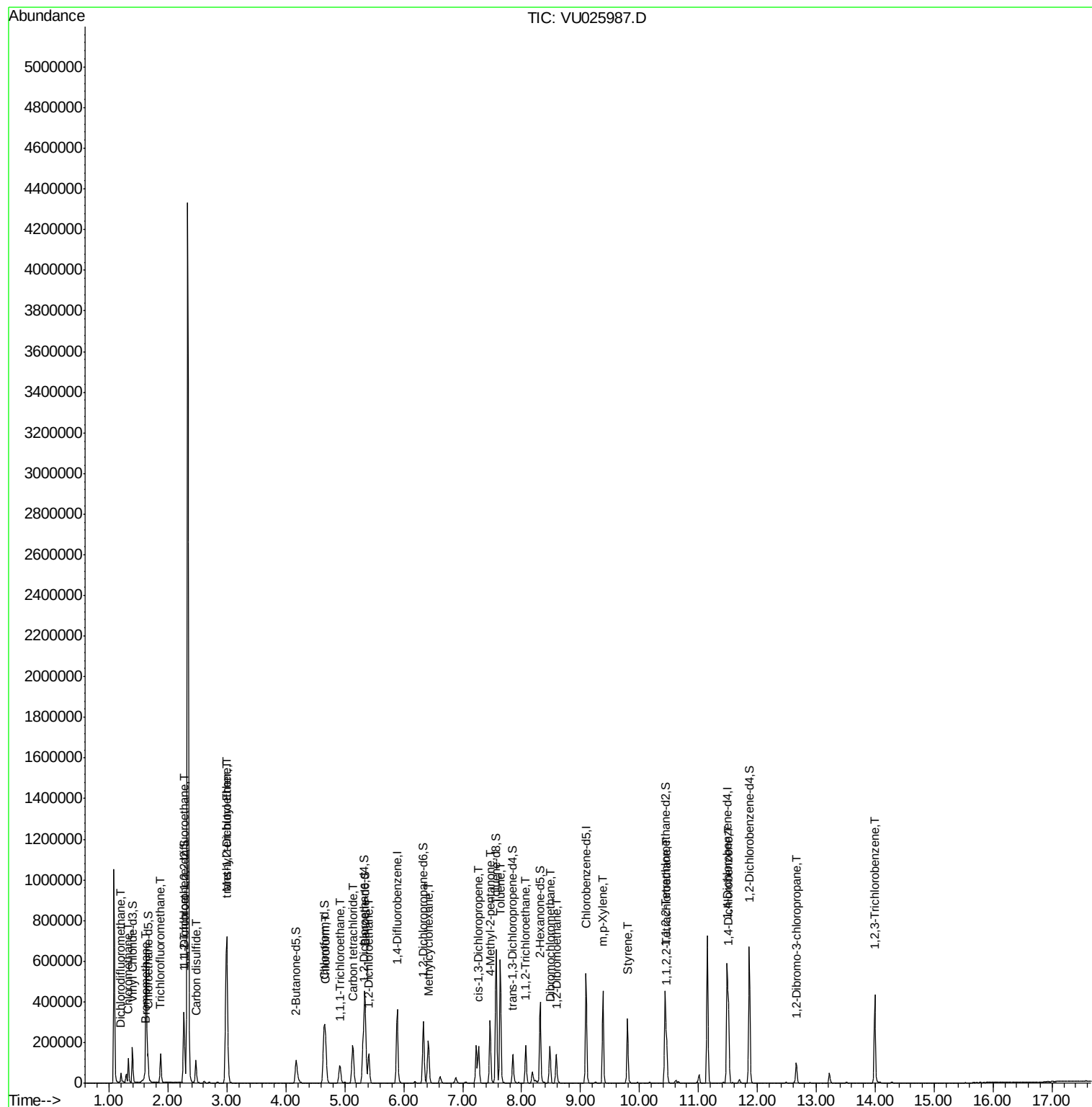
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Dibromochloromethane	8.48	129	91063	34.71	ug/L	97
50) 1,2-Dibromoethane	8.59	107	91764	38.72	ug/L	99
53) m,p-Xylene	9.38	106	121010	32.69	ug/L	97
55) Styrene	9.80	104	147996	24.19	ug/L	96
58) 1,1,2,2-Tetrachloroethane	10.46	83	88152	23.84	ug/L	99
63) 1,4-Dichlorobenzene	11.51	146	136083	28.25	ug/L	97
66) 1,2-Dibromo-3-chloropropan	12.66	75	24410	28.44	ug/L	96
70) 1,2,3-Trichlorobenzene	13.99	180	136573	43.76	ug/L	98

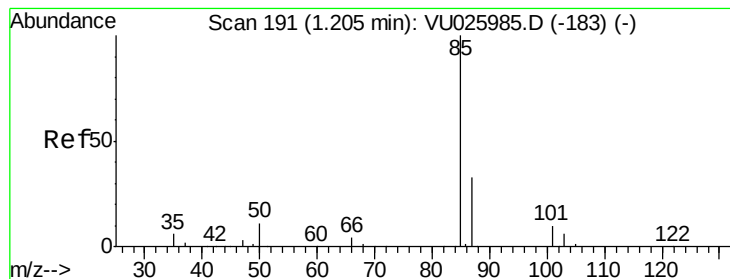
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 10.11 ug/L

RT: 1.20 min Scan# 190

Delta R.T. -0.00 min

Lab File: VU025987.D

Acq: 09 Aug 2018 11:24

Instrument :

MSVOA_U

ClientSampleId :

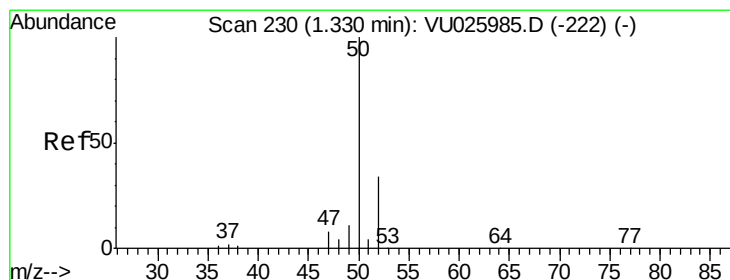
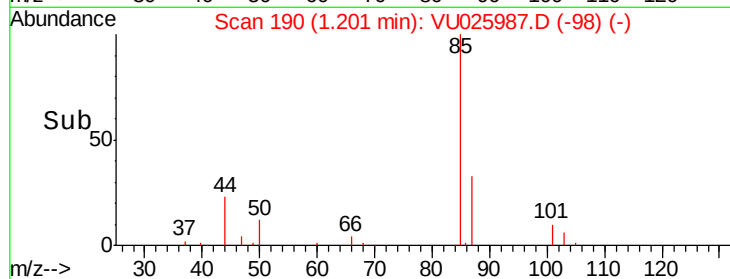
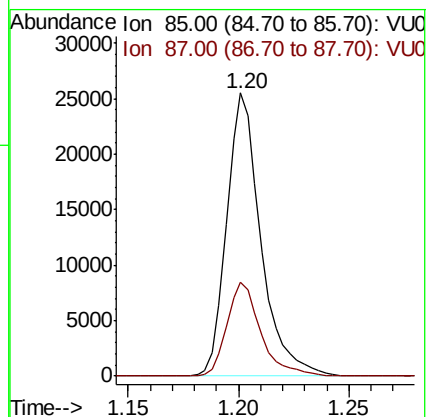
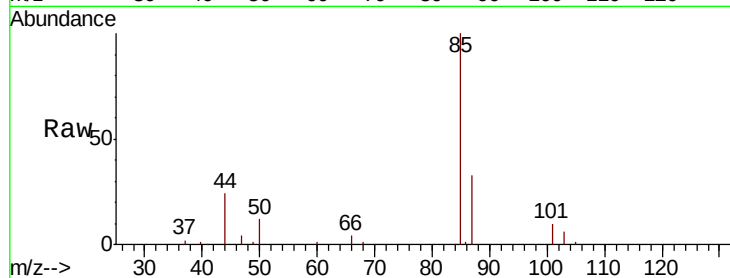
A4ZD5

Tot Ion: 85 Resp: 27324

Ion Ratio Lower Upper

85 100

87 32.8 26.1 39.1



#3

Chloromethane

Concen: 31.32 ug/L

RT: 1.33 min Scan# 229

Delta R.T. -0.00 min

Lab File: VU025987.D

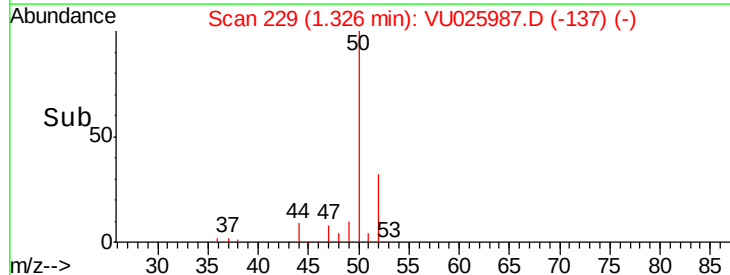
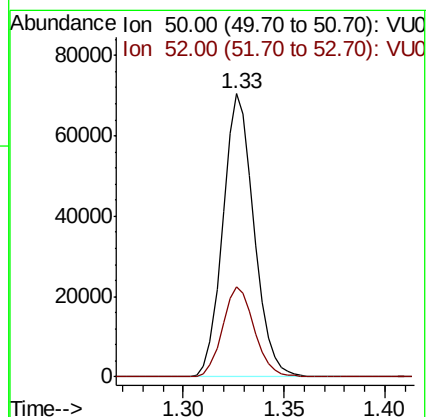
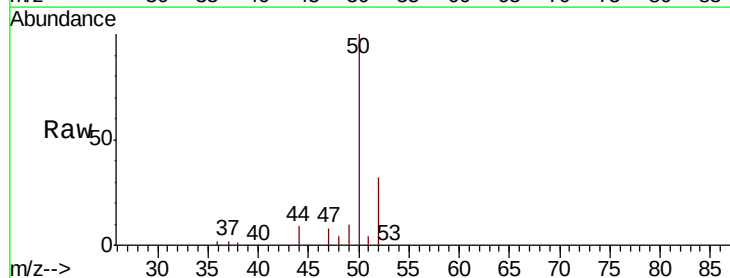
Acq: 09 Aug 2018 11:24

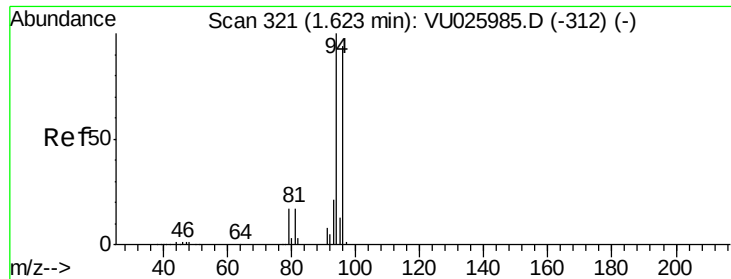
Tgt Ion: 50 Resp: 75933

Ion Ratio Lower Upper

50 100

52 31.9 23.4 43.4





#6

Bromomethane

Concen: 7.48 ug/L

RT: 1.60 min Scan# 315

Delta R.T. -0.02 min

Lab File: VU025987.D

Acq: 09 Aug 2018 11:24

Instrument :

MSVOA_U

ClientSampleId :

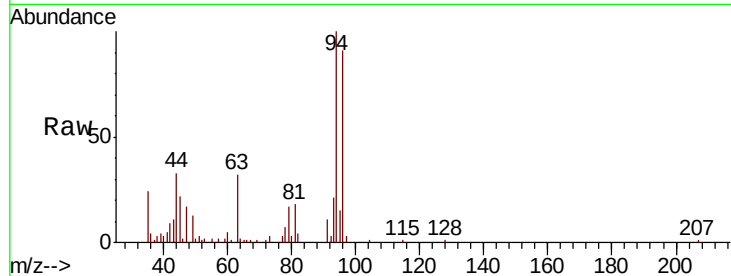
A4ZD5

Tot Ion: 94 Resp: 9354

Ion Ratio Lower Upper

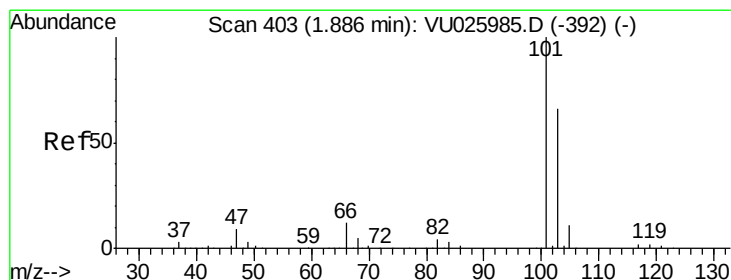
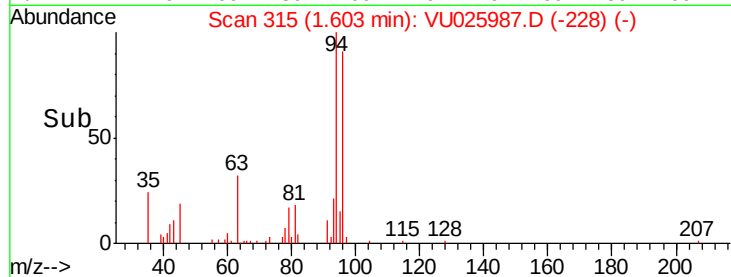
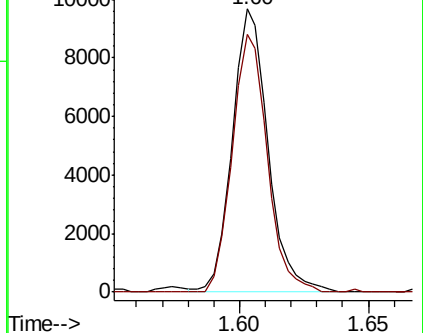
94 100

96 91.2 65.6 121.8



Abundance Ion 94.00 (93.70 to 94.70): VU025985.D (-312) (-)

Ion 96.00 (95.70 to 96.70): VU025987.D (-228) (-)



#9

Trichlorofluoromethane

Concen: 25.38 ug/L

RT: 1.88 min Scan# 400

Delta R.T. -0.01 min

Lab File: VU025987.D

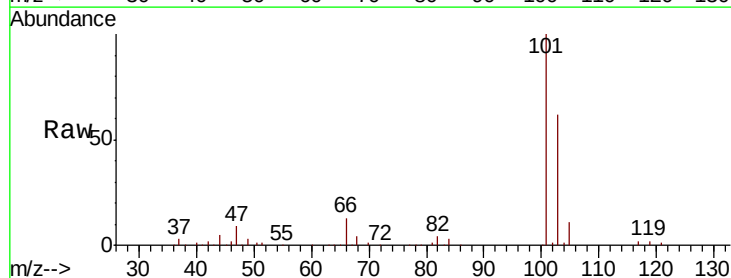
Acq: 09 Aug 2018 11:24

Tgt Ion: 101 Resp: 84954

Ion Ratio Lower Upper

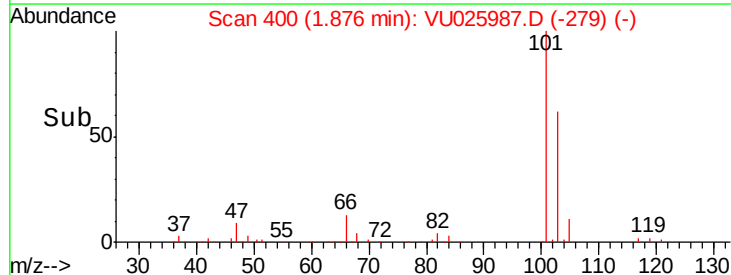
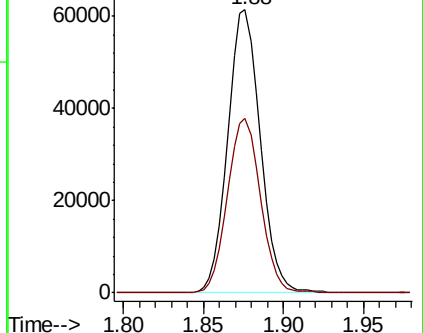
101 100

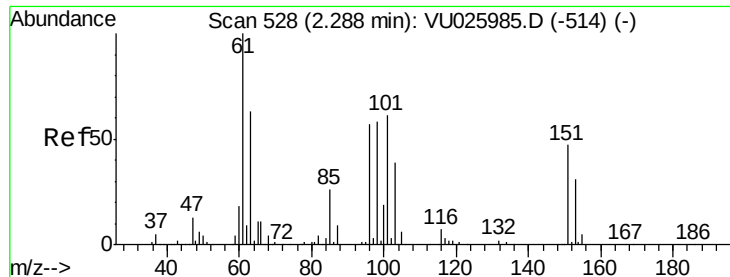
103 62.3 52.7 79.1



Abundance Ion 101.00 (100.70 to 101.70): VU025985.D (-392) (-)

Ion 103.00 (102.70 to 103.70): VU025987.D (-279) (-)





#10

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

Concen: 24.85 ug/L

RT: 2.28 min Scan# 526

Delta R.T. -0.01 min

Lab File: VU025987.D

Acq: 09 Aug 2018 11:24

Instrument :

MSVOA_U

ClientSampleId :

A4ZD5

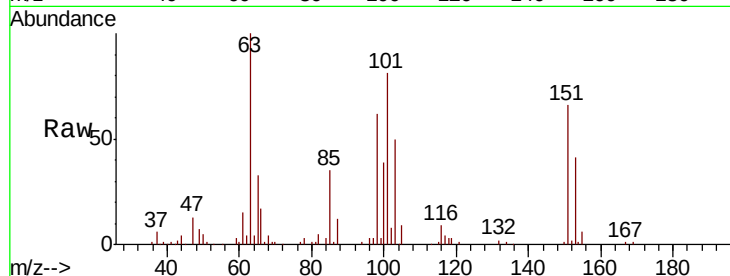
Tot Ion:101 Resp: 48383

Ion Ratio Lower Upper

101 100

85 43.8 36.0 54.0

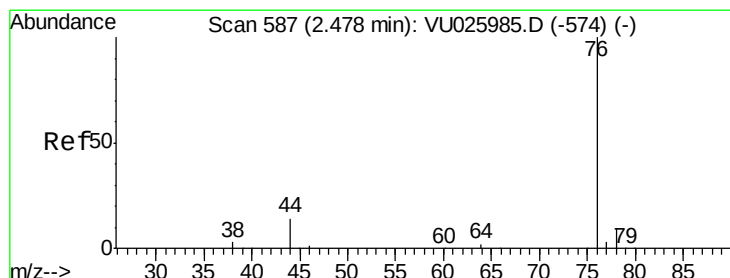
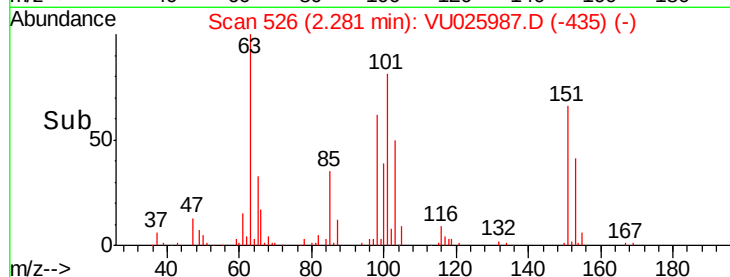
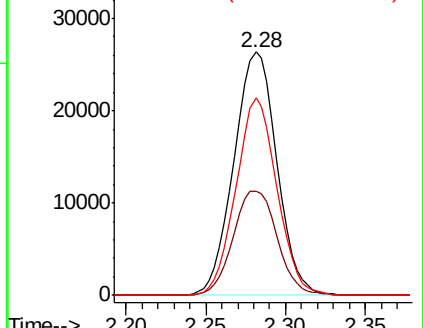
151 77.2 64.2 96.2



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



#14

Carbon disulfide

Concen: 23.13 ug/L

RT: 2.47 min Scan# 585

Delta R.T. -0.01 min

Lab File: VU025987.D

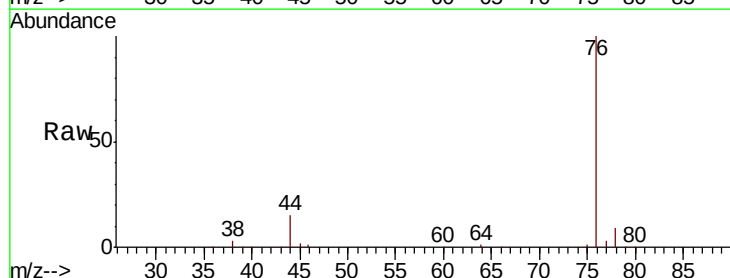
Acq: 09 Aug 2018 11:24

Tgt Ion: 76 Resp: 136276

Ion Ratio Lower Upper

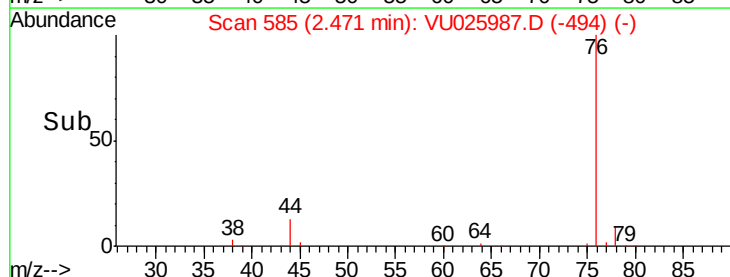
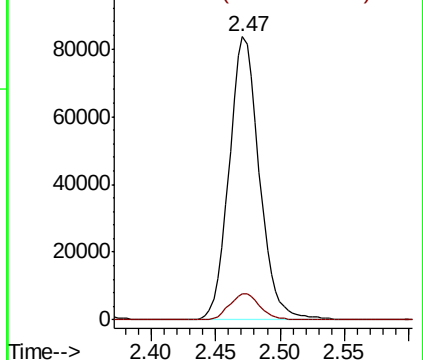
76 100

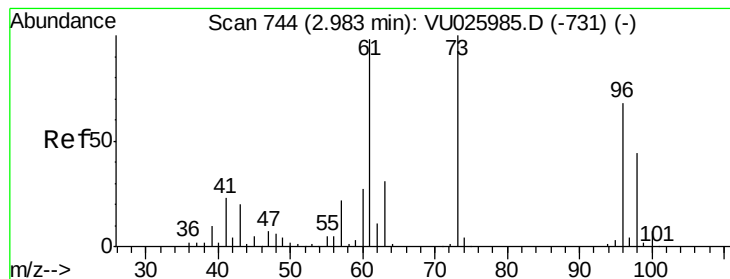
78 9.3 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VU0

Ion 78.00 (77.70 to 78.70): VU0





#17

trans-1,2-Dichloroethene

Concen: 47.67 ug/L

RT: 2.98 min Scan# 743

Delta R.T. -0.00 min

Lab File: VU025987.D

Acq: 09 Aug 2018 11:24

Instrument :

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ClientSampleId :

A4ZD5

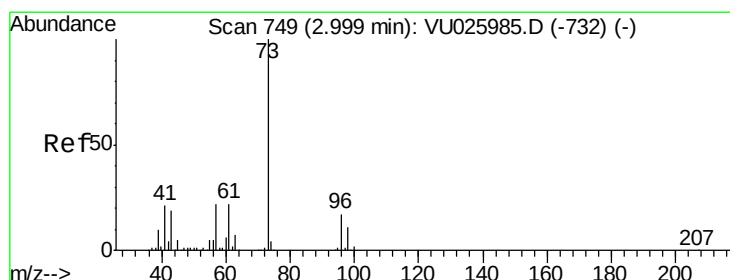
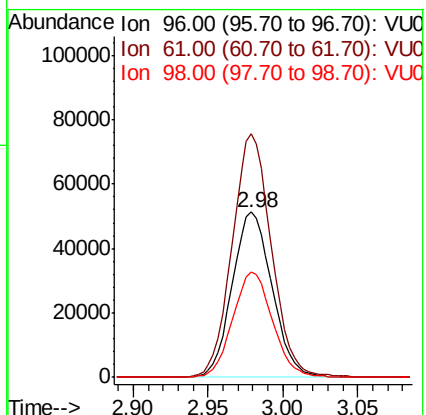
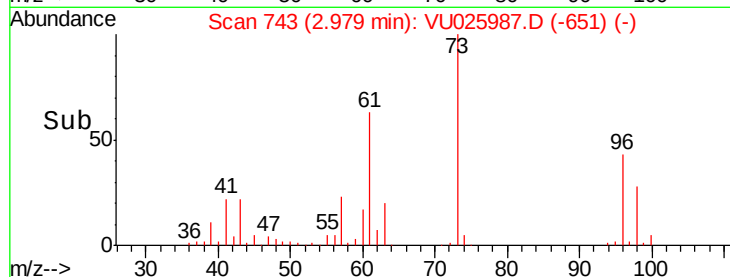
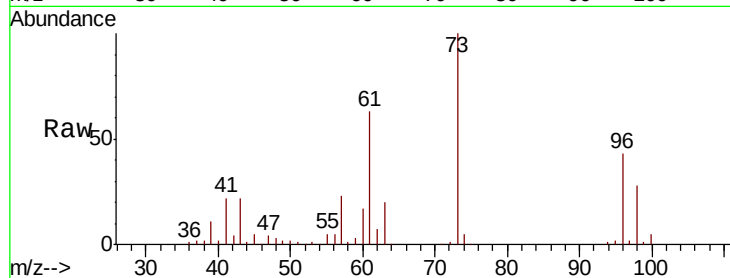
Tot Ion: 96 Resp: 95094

Ion Ratio Lower Upper

96 100

61 147.5 102.8 190.8

98 64.0 44.7 83.1



#18

Methyl tert-butyl Ether

Concen: 100.66 ug/L

RT: 3.00 min Scan# 749

Delta R.T. -0.00 min

Lab File: VU025987.D

Acq: 09 Aug 2018 11:24

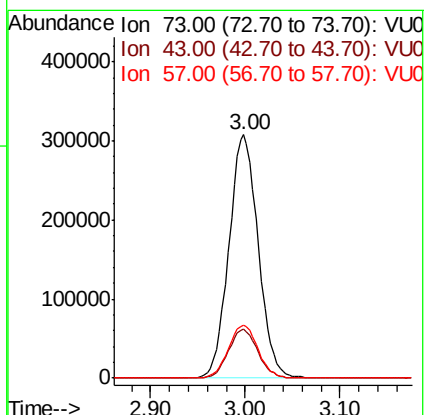
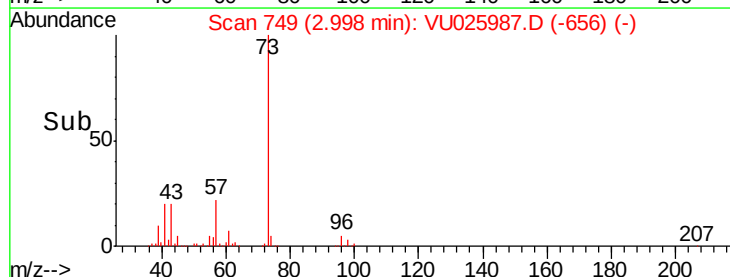
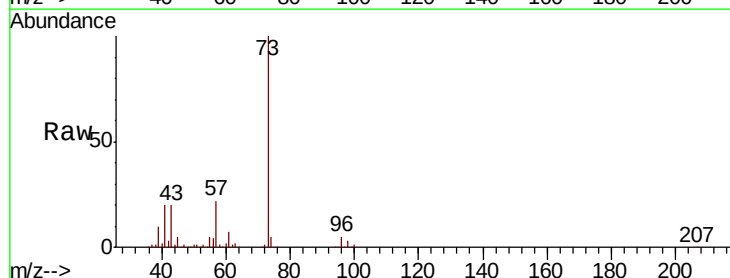
Tgt Ion: 73 Resp: 659985

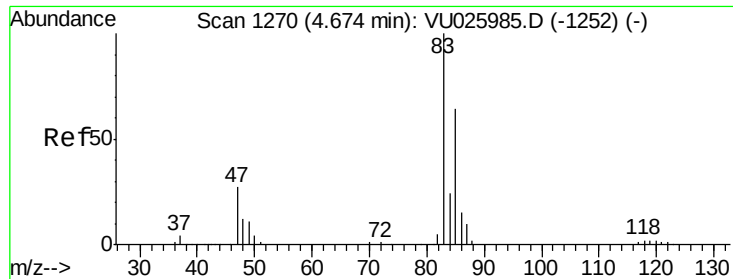
Ion Ratio Lower Upper

73 100

43 20.3 16.3 24.5

57 22.1 17.1 25.7

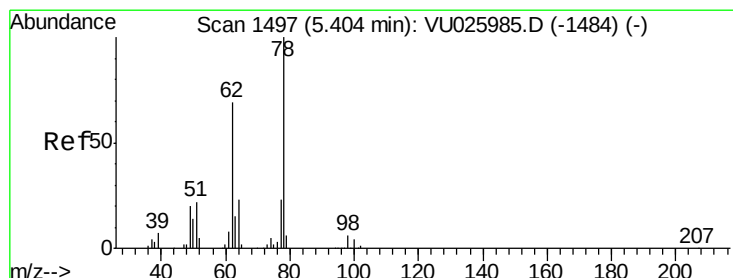
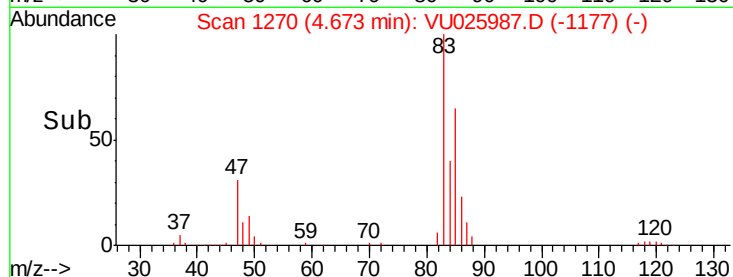
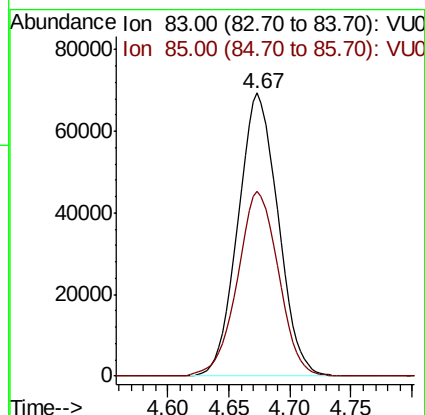
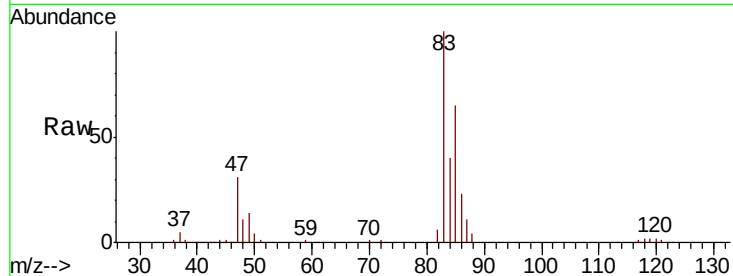




#25
Chloroform
Concen: 39.19 ug/L
RT: 4.67 min Scan# 1270
Delta R.T. -0.00 min
Lab File: VU025987.D
Acq: 09 Aug 2018 11:24

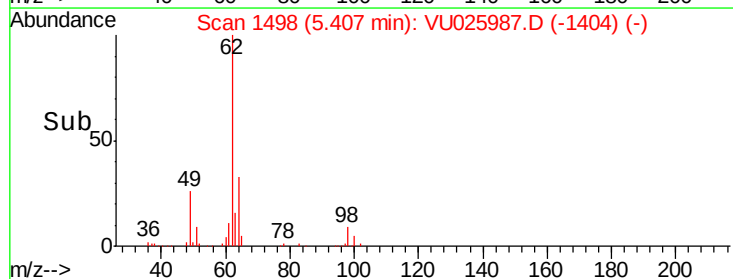
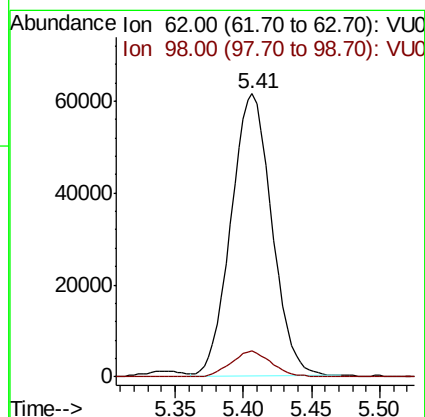
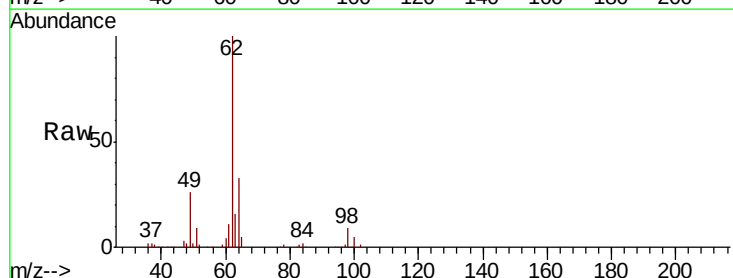
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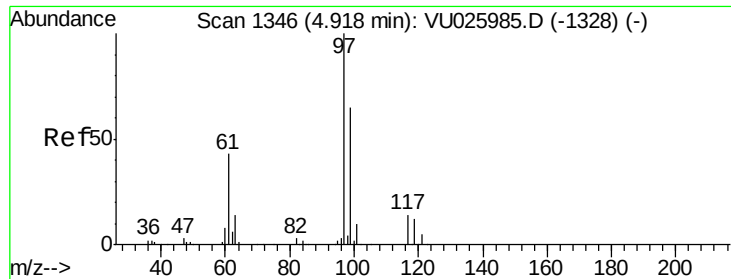
Tot Ion: 83 Resp: 157917
Ion Ratio Lower Upper
83 100
85 65.1 45.9 85.3



#27
1,2-Dichloroethane
Concen: 38.32 ug/L
RT: 5.41 min Scan# 1498
Delta R.T. 0.00 min
Lab File: VU025987.D
Acq: 09 Aug 2018 11:24

Tgt Ion: 62 Resp: 127519
Ion Ratio Lower Upper
62 100
98 9.0 7.0 10.4

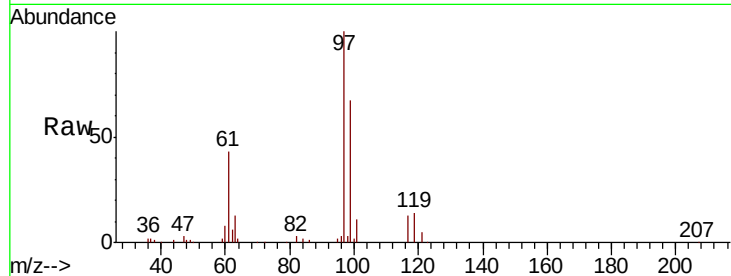




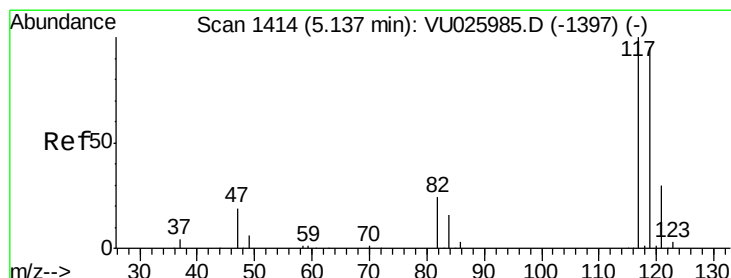
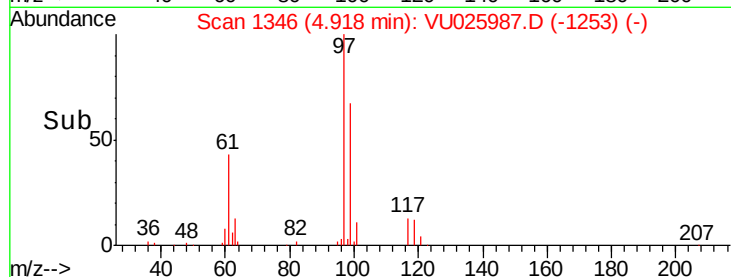
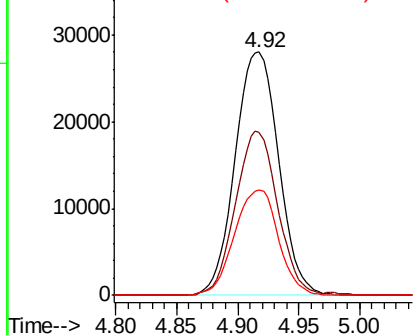
#30
 1,1,1-Trichloroethane
 Concen: 18.74 ug/L
 RT: 4.92 min Scan# 1346
 Delta R.T. -0.00 min
 Lab File: VU025987.D
 Acq: 09 Aug 2018 11:24

Instrument :
 MSVOA_U
 ClientSampleId :
 A4ZD5

Tot Ion: 97 Resp: 69254
 Ion Ratio Lower Upper
 97 100
 99 65.1 51.8 77.6
 61 44.0 34.7 52.1

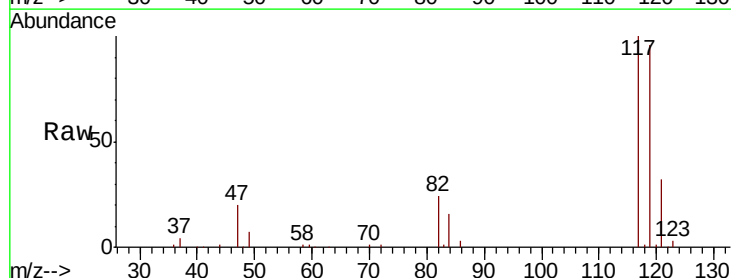


Abundance Ion 97.00 (96.70 to 97.70): VU0
 Ion 99.00 (98.70 to 99.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0

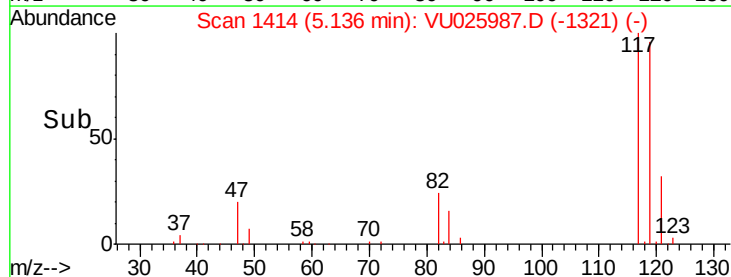
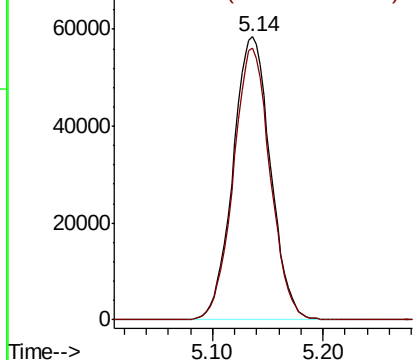


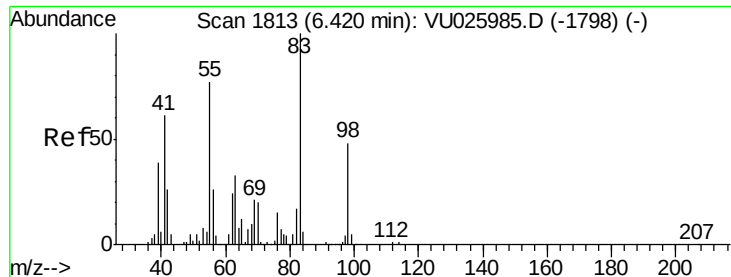
#31
 Carbon tetrachloride
 Concen: 40.74 ug/L
 RT: 5.14 min Scan# 1414
 Delta R.T. -0.00 min
 Lab File: VU025987.D
 Acq: 09 Aug 2018 11:24

Tgt Ion: 117 Resp: 137461
 Ion Ratio Lower Upper
 117 100
 119 94.4 76.3 114.5



Abundance Ion 117.00 (116.70 to 117.70): V
 Ion 119.00 (118.70 to 119.70): V

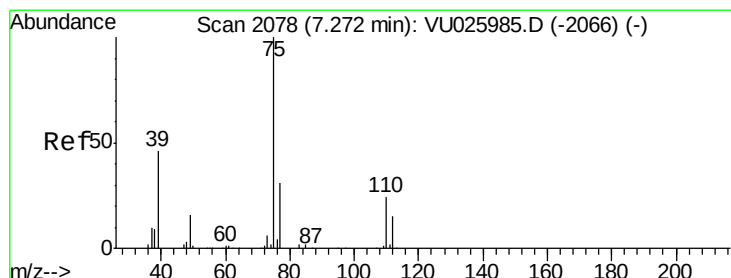
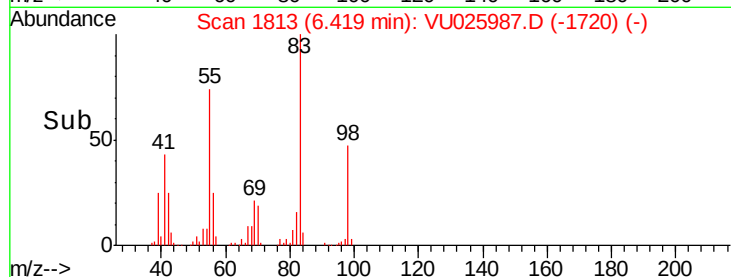
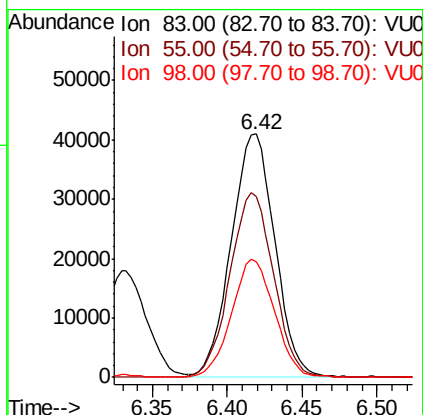
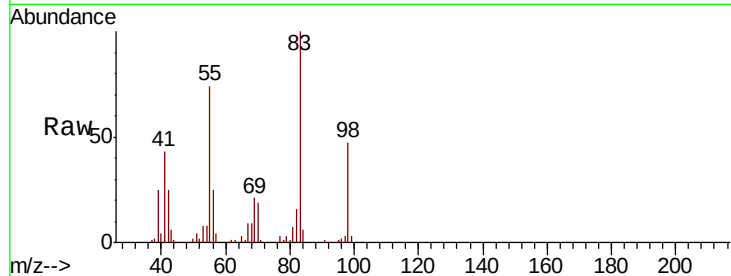




#35
Methylvlcyclohexane
Concen: 25.00 ug/L
RT: 6.42 min Scan# 1813
Delta R.T. -0.00 min
Lab File: VU025987.D
Acq: 09 Aug 2018 11:24

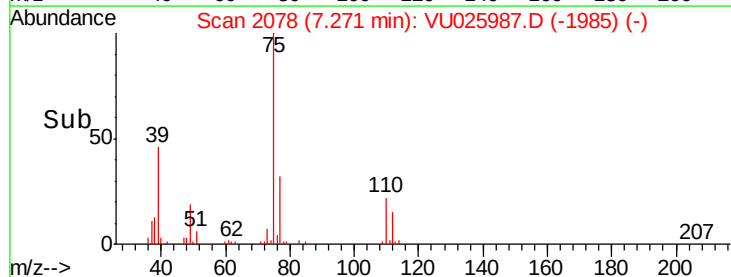
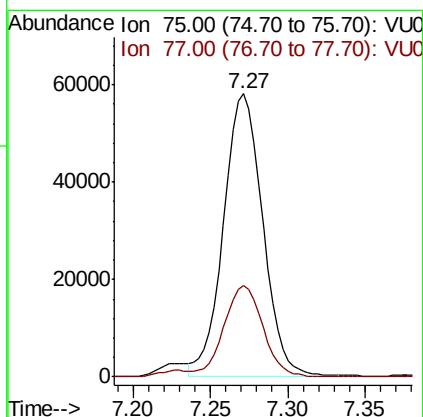
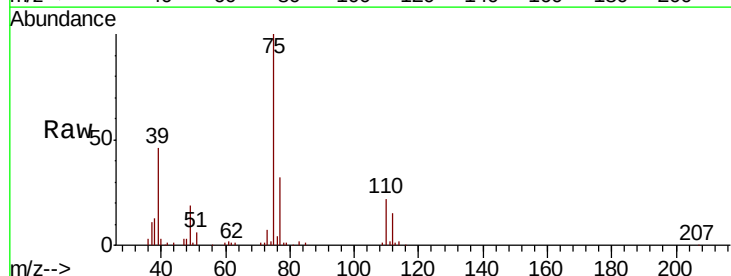
Instrument :
MSVOA_U
ClientSampleId :
A4ZD5

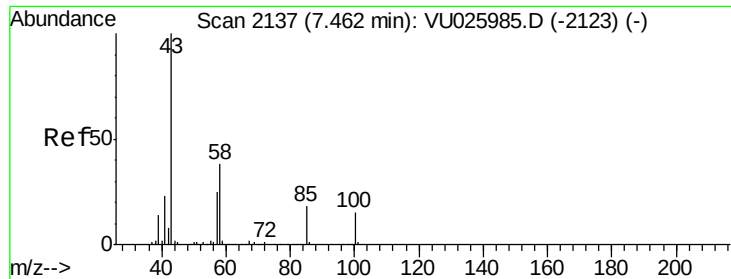
Tot Ion: 83 Resp: 83198
Ion Ratio Lower Upper
83 100
55 76.1 61.0 91.6
98 47.7 38.1 57.1



#39
cis-1,3-Dichloropropene
Concen: 29.71 ug/L
RT: 7.27 min Scan# 2078
Delta R.T. -0.00 min
Lab File: VU025987.D
Acq: 09 Aug 2018 11:24

Tgt Ion: 75 Resp: 102757
Ion Ratio Lower Upper
75 100
77 32.4 22.1 41.1

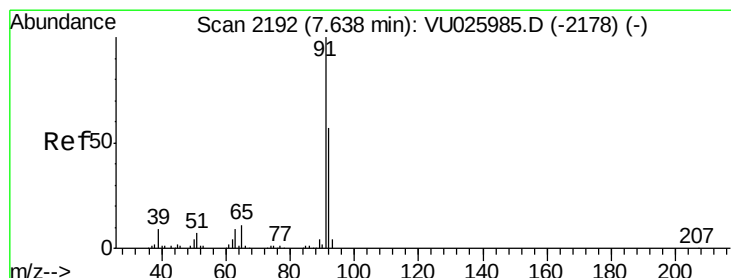
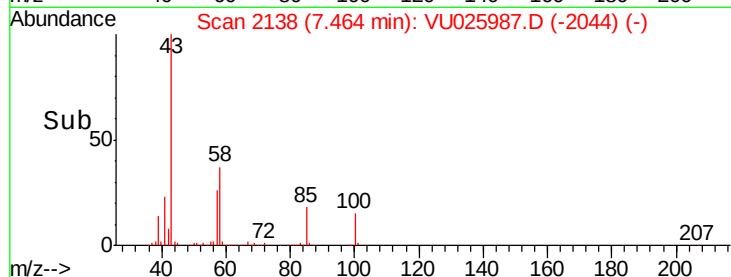
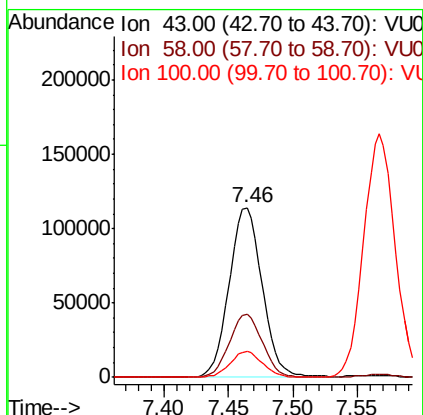
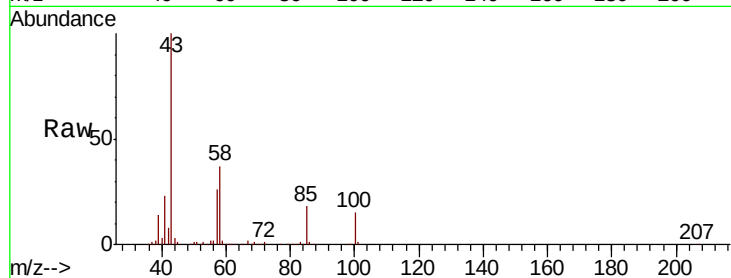




#40
 4-Methyl-2-pentanone
 Concen: 65.08 ug/L
 RT: 7.46 min Scan# 2138
 Delta R.T. 0.00 min
 Lab File: VU025987.D
 Acq: 09 Aug 2018 11:24

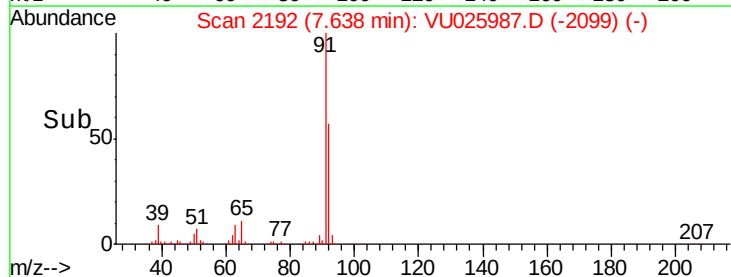
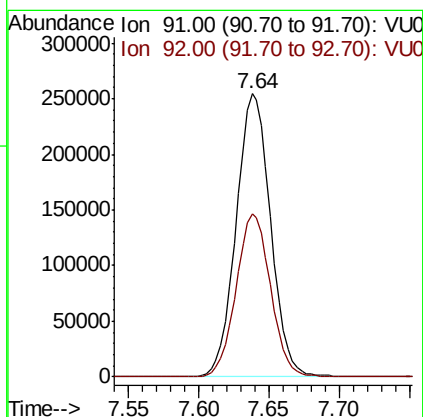
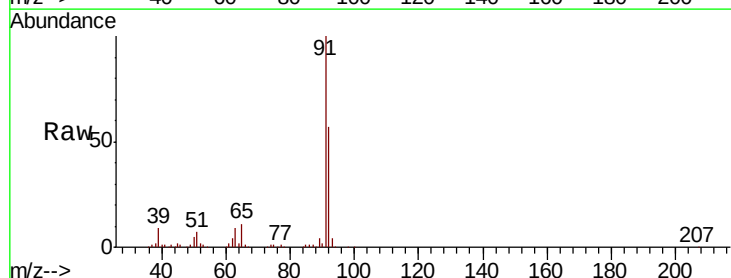
Instrument :
 MSVOA_U
 ClientSampleID :
 A4ZD5

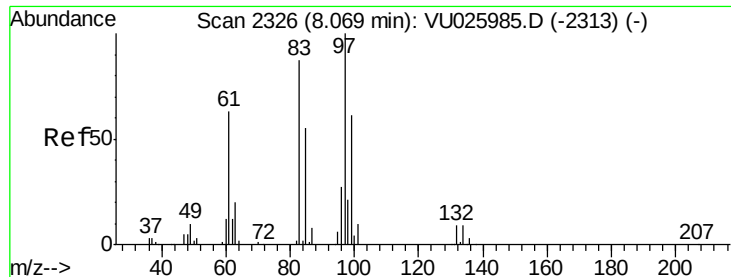
Tot Ion: 43 Resp: 204096
 Ion Ratio Lower Upper
 43 100
 58 37.0 30.6 46.0
 100 14.9 11.8 17.6



#42
 Toluene
 Concen: 49.07 ug/L
 RT: 7.64 min Scan# 2192
 Delta R.T. -0.00 min
 Lab File: VU025987.D
 Acq: 09 Aug 2018 11:24

Tgt Ion: 91 Resp: 434485
 Ion Ratio Lower Upper
 91 100
 92 57.4 41.0 76.2

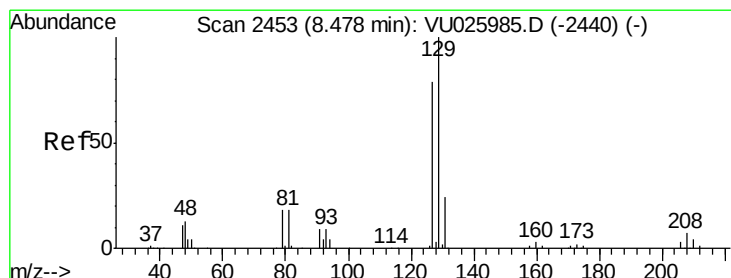
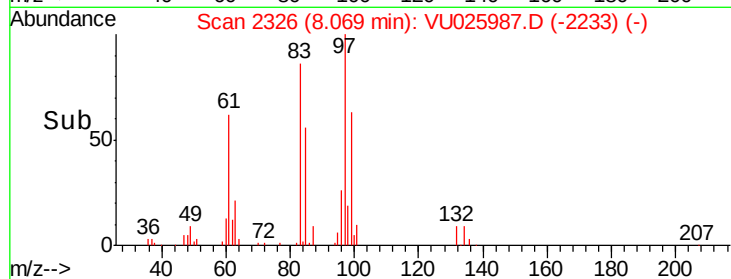
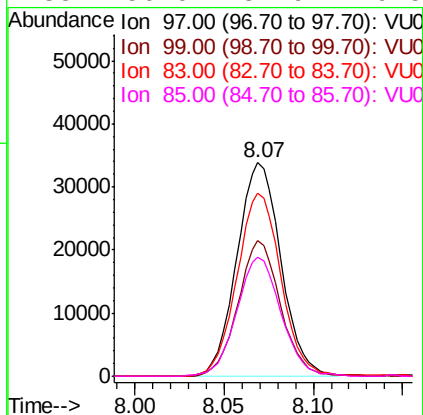
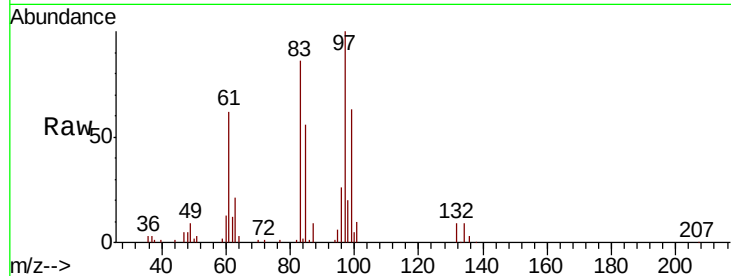




#45
 1,1,2-Trichloroethane
 Concen: 26.77 ug/L
 RT: 8.07 min Scan# 2326
 Delta R.T. -0.00 min
 Lab File: VU025987.D
 Acq: 09 Aug 2018 11:24

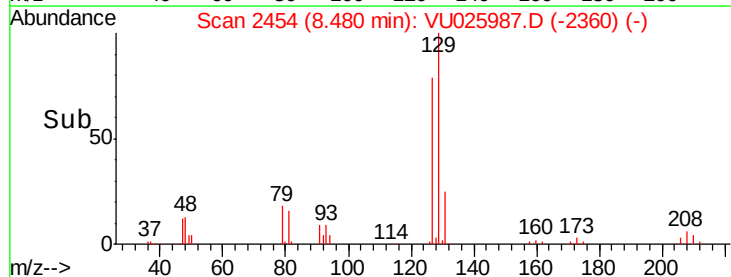
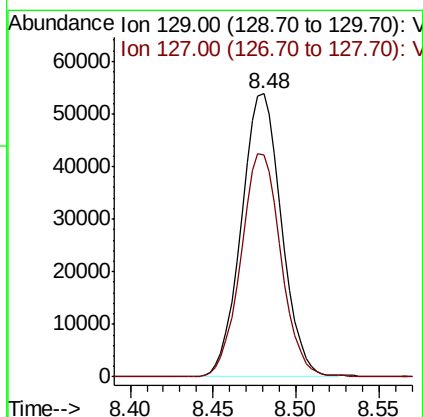
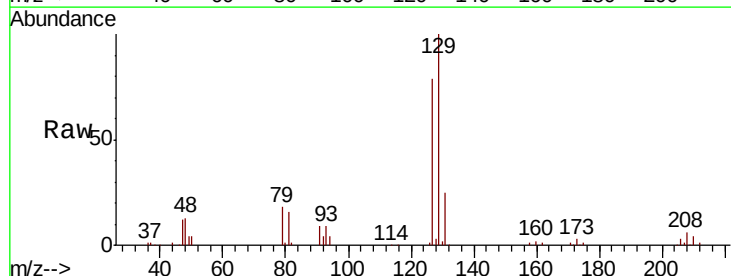
Instrument :
 MSVOA_U
 ClientSampleId :
 A4ZD5

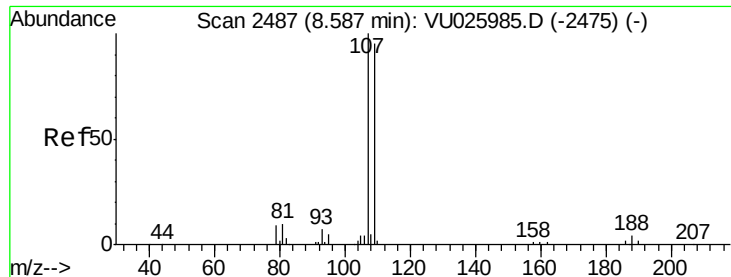
Tot Ion:	97	Resp:	58259
Ion	Ratio	Lower	Upper
97	100		
99	63.5	41.6	77.2
83	85.7	59.0	109.6
85	56.0	37.9	70.5



#49
 Dibromochloromethane
 Concen: 34.71 ug/L
 RT: 8.48 min Scan# 2454
 Delta R.T. 0.00 min
 Lab File: VU025987.D
 Acq: 09 Aug 2018 11:24

Tgt Ion:	129	Resp:	91063
Ion	Ratio	Lower	Upper
129	100		
127	78.6	53.5	99.3





#50

1,2-Dibromoethane

Concen: 38.72 ug/L

RT: 8.59 min Scan# 2487

Delta R.T. -0.00 min

Lab File: VU025987.D

Acq: 09 Aug 2018 11:24

Instrument :

MSVOA_U

ClientSampleId :

A4ZD5

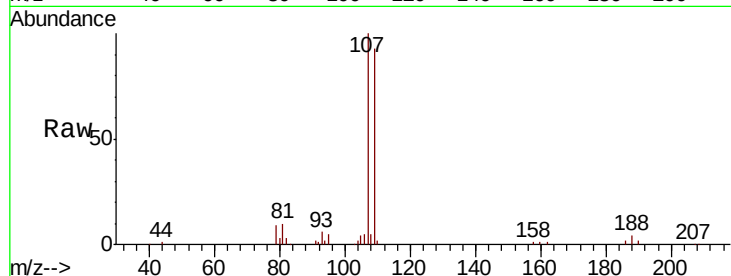
Tot Ion:107 Resp: 91764

Ion Ratio Lower Upper

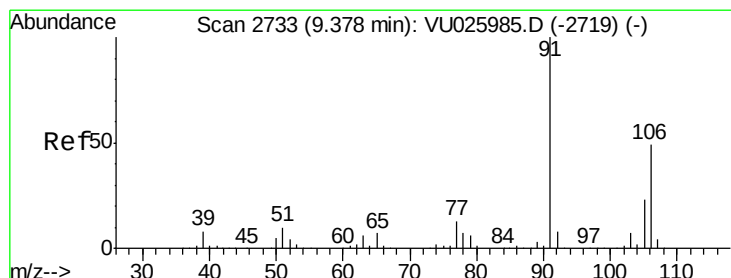
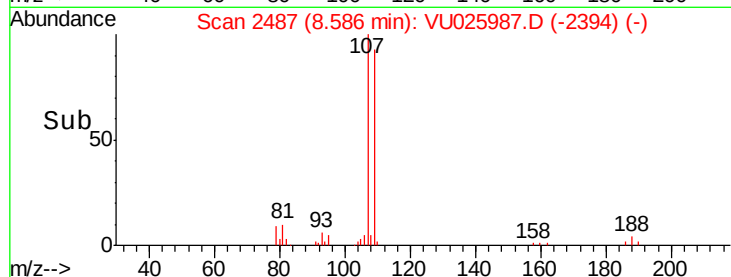
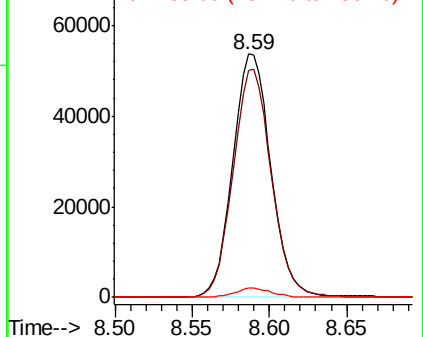
107 100

109 93.1 66.1 122.7

188 3.8 2.9 4.3



Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V



#53

m,p-Xylene

Concen: 32.69 ug/L

RT: 9.38 min Scan# 2734

Delta R.T. 0.00 min

Lab File: VU025987.D

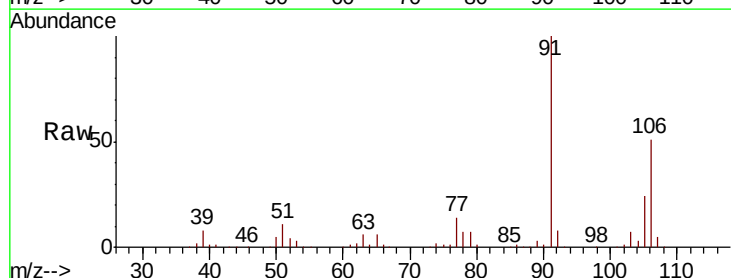
Acq: 09 Aug 2018 11:24

Tgt Ion:106 Resp: 121010

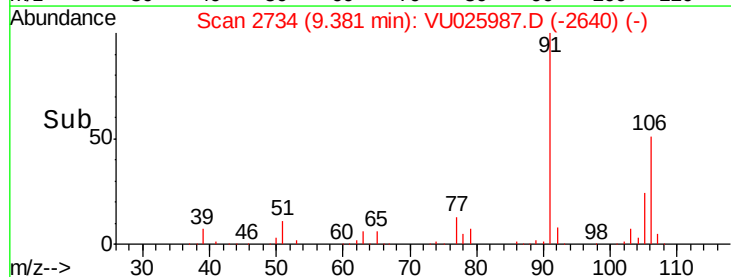
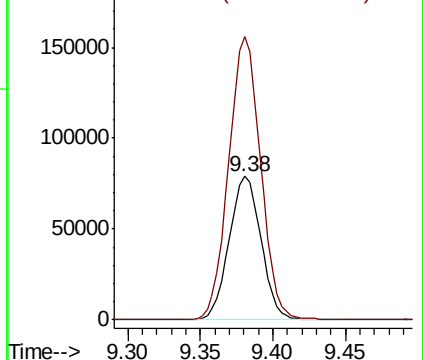
Ion Ratio Lower Upper

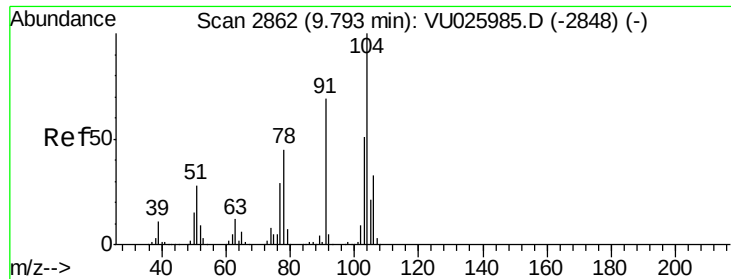
106 100

91 197.2 141.3 262.5



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): V

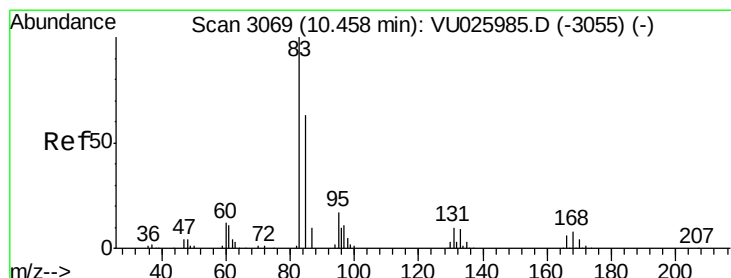
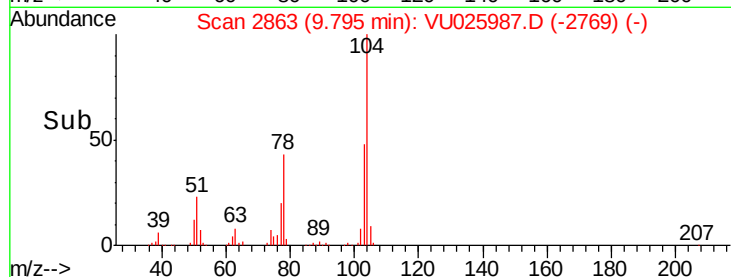
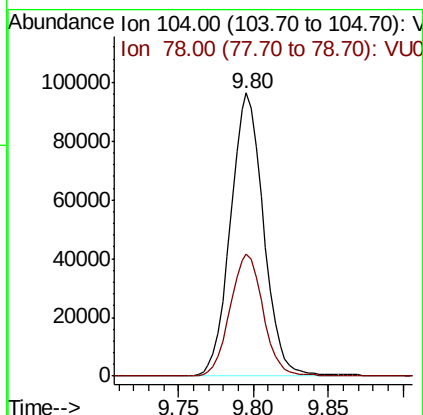
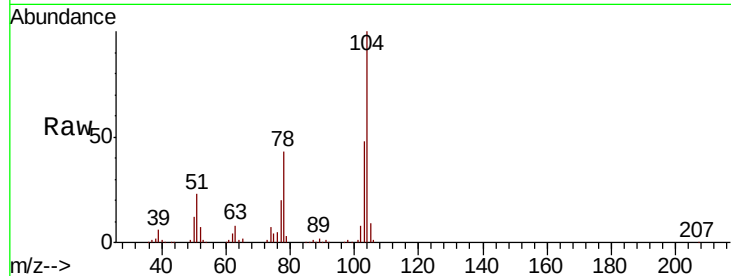




#55
Stvrene
Concen: 24.19 ug/L
RT: 9.80 min Scan# 2863
Delta R.T. 0.00 min
Lab File: VU025987.D
Acq: 09 Aug 2018 11:24

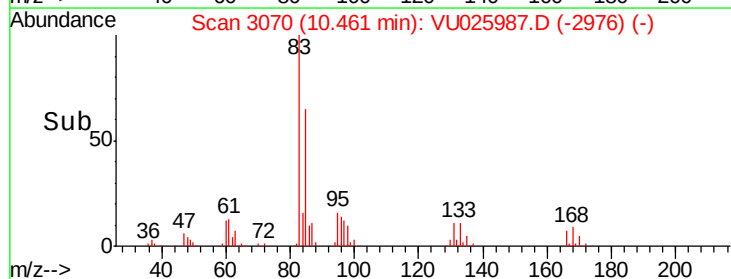
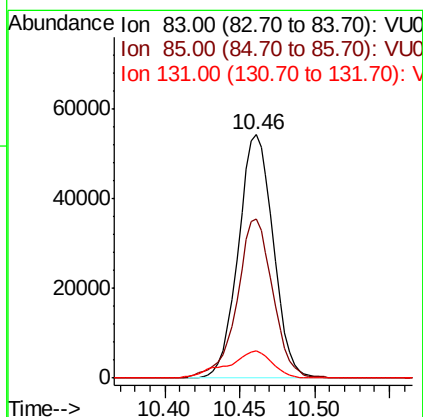
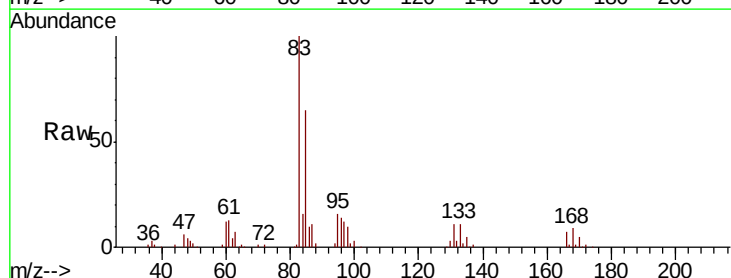
Instrument :
MSVOA_U
ClientSampled :
A4ZD5

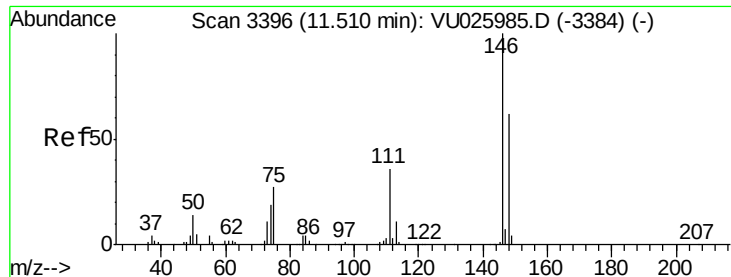
Tot Ion:104 Resp: 147996
Ion Ratio Lower Upper
104 100
78 43.3 32.1 59.5



#58
1,1,2,2-Tetrachloroethane
Concen: 23.84 ug/L
RT: 10.46 min Scan# 3070
Delta R.T. 0.00 min
Lab File: VU025987.D
Acq: 09 Aug 2018 11:24

Tgt Ion: 83 Resp: 88152
Ion Ratio Lower Upper
83 100
85 65.2 45.0 83.6
131 11.1 8.6 12.8

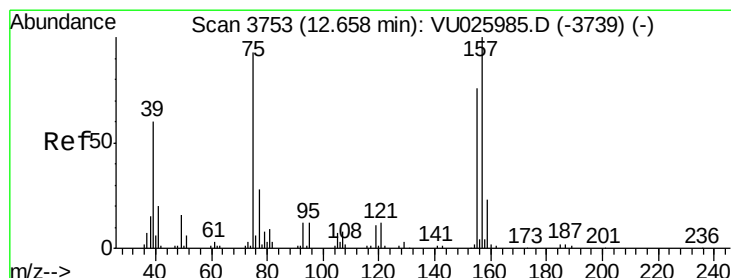
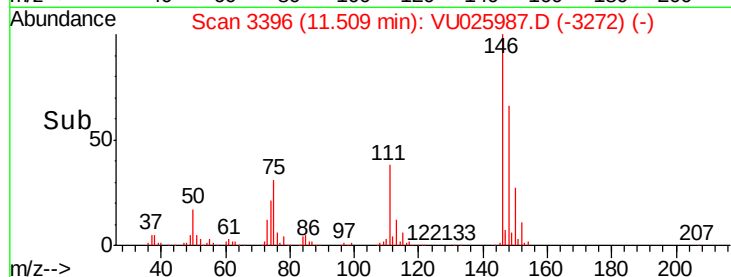
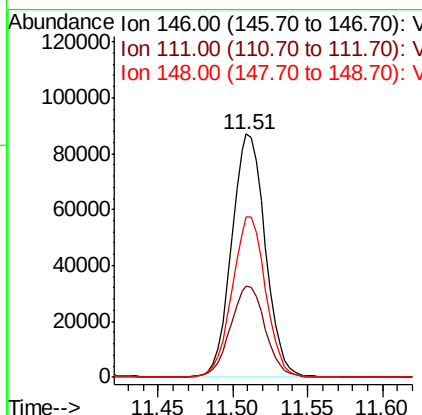
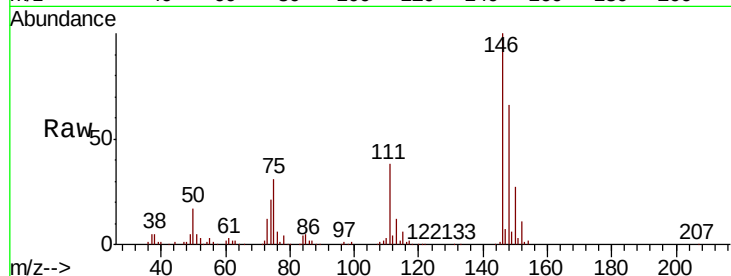




#63
 1,4-Dichlorobenzene
 Concen: 28.25 ug/L
 RT: 11.51 min Scan# 3396
 Delta R.T. -0.00 min
 Lab File: VU025987.D
 Acq: 09 Aug 2018 11:24

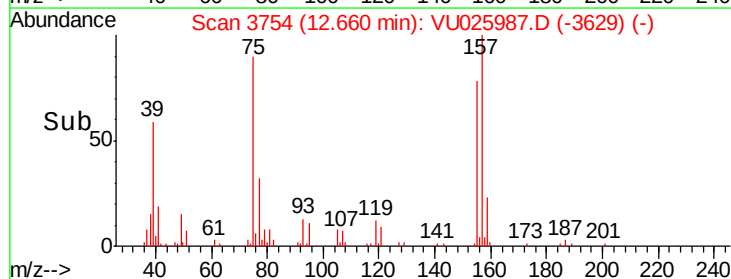
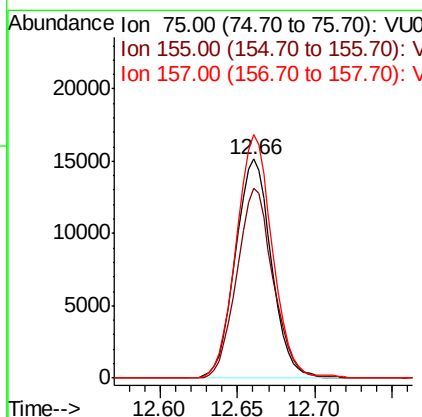
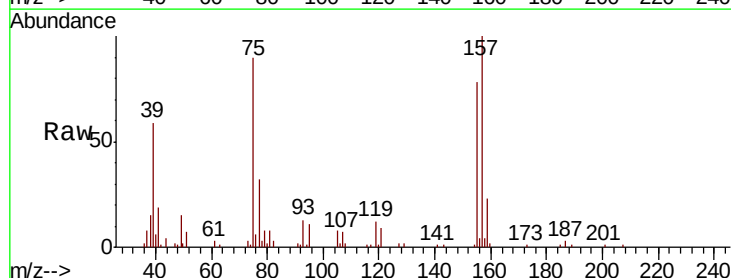
Instrument :
 MSVOA_U
 ClientSampleId :
 A4ZD5

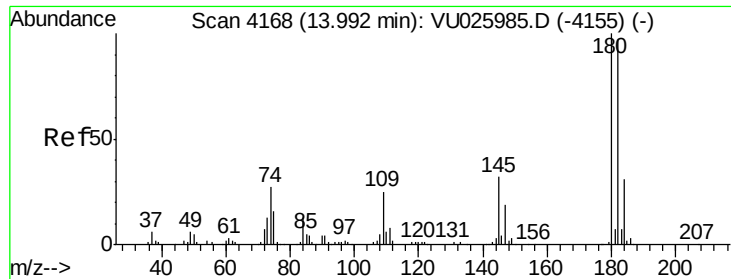
Tot Ion	Ratio	Lower	Upper
146	100		
111	37.7	26.4	49.0
148	65.8	43.8	81.4



#66
 1,2-Dibromo-3-chloropropane
 Concen: 28.44 ug/L
 RT: 12.66 min Scan# 3754
 Delta R.T. 0.00 min
 Lab File: VU025987.D
 Acq: 09 Aug 2018 11:24

Tgt Ion	Ratio	Lower	Upper
75	100		
155	86.7	71.8	107.8
157	111.2	93.0	139.6





#70
 1,2,3-Trichlorobenzene
 Concen: 43.76 ug/L
 RT: 13.99 min Scan# 4168
 Delta R.T. -0.00 min
 Lab File: VU025987.D
 Acq: 09 Aug 2018 11:24

Instrument :
 MSVOA_U
 ClientSampleId :
 A4ZD5

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.6	76.5	114.7
145	31.6	24.7	37.1

