

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092518\
 Data File : VU027133.D
 Acq On : 25 Sep 2018 15:37
 Operator : MD/SY
 Sample : J4914-01
 Misc : 5.00µg/5mL/100µL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 X2D99

Quant Time: Sep 26 03:10:15 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM092518WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Sep 26 02:22:28 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	177126	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	171792	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	90238	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	63503	40.30	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	80.60%
7) Chloroethane-d5	1.64	69	45146	36.58	ug/L	-0.04
Spiked Amount	50.000	Range	70 - 130	Recovery	=	73.16%
11) 1,1-Dichloroethene-d2	2.23	63	92347	30.81	ug/L	-0.04
Spiked Amount	50.000	Range	60 - 125	Recovery	=	61.62%
21) 2-Butanone-d5	4.20	46	104278	81.38	ug/L	0.02
Spiked Amount	100.000	Range	40 - 130	Recovery	=	81.38%
24) Chloroform-d	4.64	84	108793	43.39	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	86.78%
26) 1,2-Dichloroethane-d4	5.31	65	76543	42.68	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	85.36%
32) Benzene-d6	5.33	84	223508	43.97	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.94%
36) 1,2-Dichloropropane-d6	6.33	67	79627	43.95	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	87.90%
41) Toluene-d8	7.57	98	199007	44.30	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	88.60%
43) trans-1,3-Dichloropropene-	7.85	79	37821	46.74	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	93.48%
47) 2-Hexanone-d5	8.33	63	84142	96.22	ug/L	0.02
Spiked Amount	100.000	Range	45 - 130	Recovery	=	96.22%
57) 1,1,2,2-Tetrachloroethane-	10.44	84	114251	47.08	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	94.16%
64) 1,2-Dichlorobenzene-d4	11.86	152	78442	42.55	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	85.10%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
13) Acetone	2.34	43	247329	209.021	ug/L	100
16) Methylene chloride	2.68	84	253619	168.933	ug/L	97
19) 1,1-Dichloroethane	3.43	63	391850	133.851	ug/L	100
20) cis-1,2-Dichloroethene	4.22	96	72286	50.421	ug/L	96
23) Bromochloromethane	4.54	128	97391	144.462	ug/L	100
25) Chloroform	4.67	83	70664	25.740	ug/L	97
27) 1,2-Dichloroethane	5.40	62	246730	108.316	ug/L	98
30) 1,1,1-Trichloroethane	4.90	97	131161	60.999	ug/L	98
31) Carbon tetrachloride	5.12	117	128943	70.781	ug/L	99
34) Trichloroethene	6.18	95	83915	62.398	ug/L	99
37) 1,2-Dichloropropane	6.43	63	112636	63.718	ug/L	99
40) 4-Methyl-2-pentanone	7.48	43	666160	256.878	ug/L	100
45) 1,1,2-Trichloroethane	8.07	97	186699	133.304	ug/L	99
46) Tetrachloroethene	8.23	164	119068	123.457	ug/L	99
49) Dibromochloromethane	8.48	129	214217	149.909	ug/L	100
50) 1,2-Dibromoethane	8.59	107	137052	95.285	ug/L	98
55) Styrene	9.80	104	194281	52.334	ug/L	97

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Quant Title : VOC Analysis
QLast Update : Wed Sep 26 02:22:28 2018
Response via : Initial Calibration

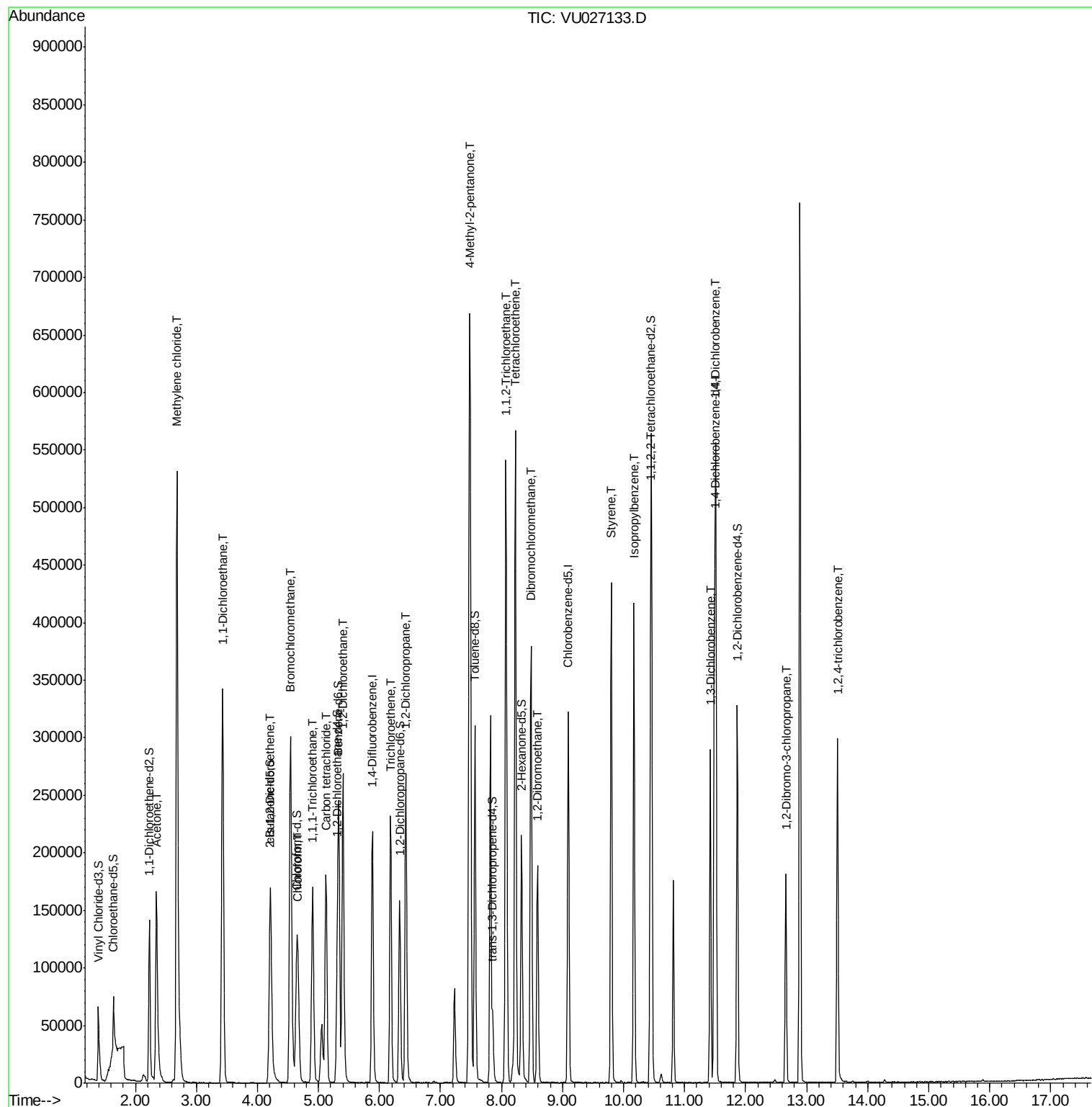
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
56) Isopropylbenzene	10.17	105	256577	45.390	uq/L	99
62) 1,3-Dichlorobenzene	11.42	146	104559	37.271	uq/L	99
63) 1,4-Dichlorobenzene	11.51	146	189413	63.636	uq/L	99
66) 1,2-Dibromo-3-chloropropan	12.66	75	46309	75.315	uq/L	97
68) 1,2,4-trichlorobenzene	13.50	180	88119	50.579	uq/L	100

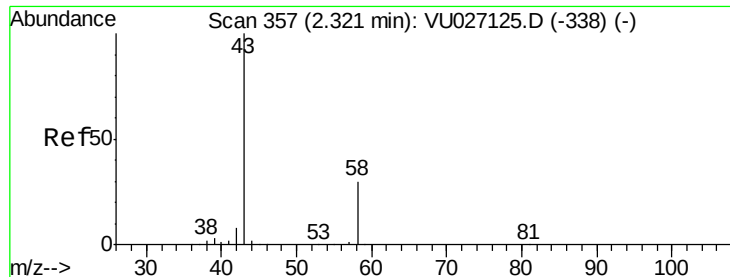
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
MSVOA_U
ClientSampled :
X2D99

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#13

Acetone

Concen: 209.021 ug/L

RT: 2.34 min Scan# 364

Delta R.T. 0.02 min

Lab File: VU027133.D

Acq: 25 Sep 2018 15:37

Instrument :

MSVOA_U

ClientSampleId :

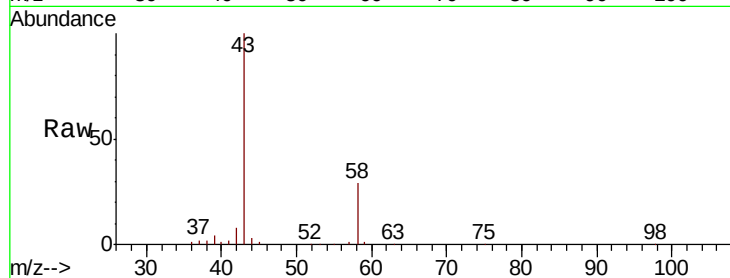
X2D99

Tot Ion: 43 Resp: 247329

Ion Ratio Lower Upper

43 100

58 29.7 0.0 59.6



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

2.34

120000

100000

80000

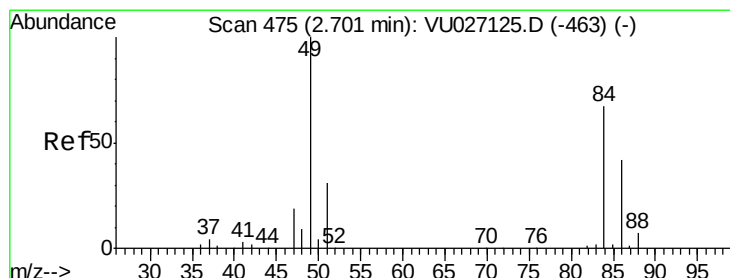
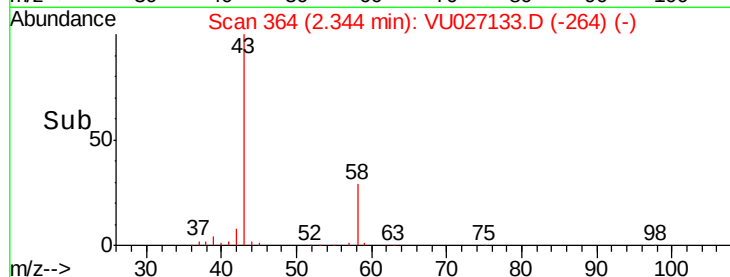
60000

40000

20000

0

Time-->



#16

Methylene chloride

Concen: 168.933 ug/L

RT: 2.68 min Scan# 469

Delta R.T. -0.02 min

Lab File: VU027133.D

Acq: 25 Sep 2018 15:37

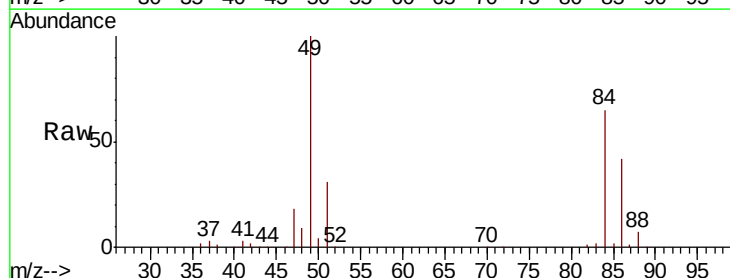
Tgt Ion: 84 Resp: 253619

Ion Ratio Lower Upper

84 100

86 64.0 43.8 81.3

49 153.7 104.4 194.0



Abundance Ion 84.00 (83.70 to 84.70): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.00 (48.70 to 49.70): VU0

250000

200000

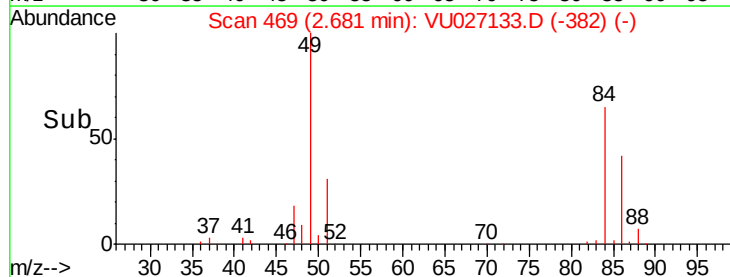
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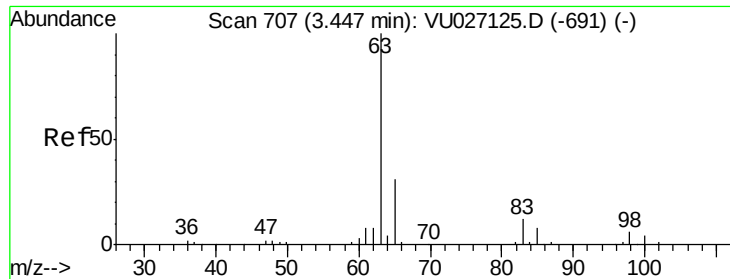
100000

50000

0

Time-->





#19

1,1-Dichloroethane

Concen: 133.851 ug/L

RT: 3.43 min Scan# 702

Delta R.T. -0.02 min

Lab File: VU027133.D

Acq: 25 Sep 2018 15:37

Instrument :

MSVOA_U

ClientSampleId :

X2D99

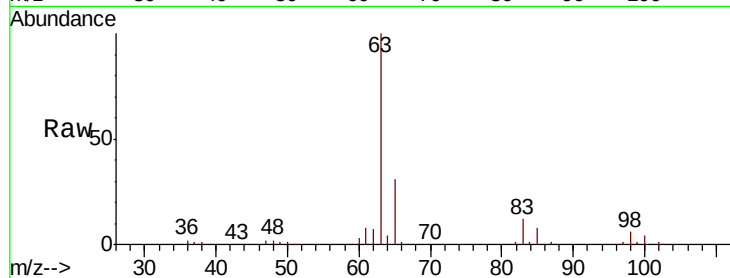
Tot Ion: 63 Resp: 391850

Ion Ratio Lower Upper

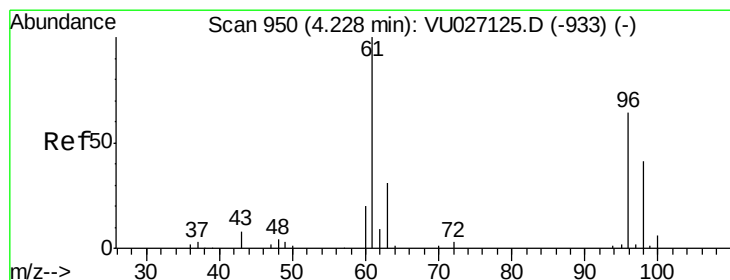
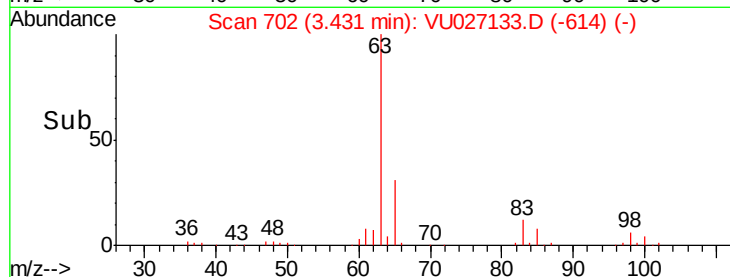
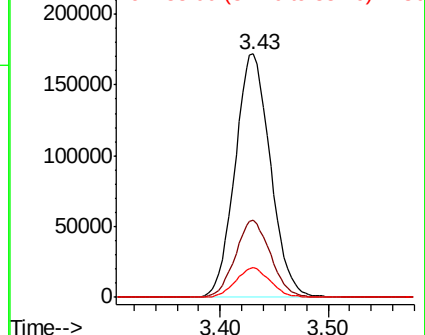
63 100

65 31.5 22.0 40.8

83 12.1 8.4 15.6



Abundance Ion 63.00 (62.70 to 63.70): VU0
Ion 65.00 (64.70 to 65.70): VU0
Ion 83.00 (82.70 to 83.70): VU0



#20

cis-1,2-Dichloroethene

Concen: 50.421 ug/L

RT: 4.22 min Scan# 946

Delta R.T. -0.01 min

Lab File: VU027133.D

Acq: 25 Sep 2018 15:37

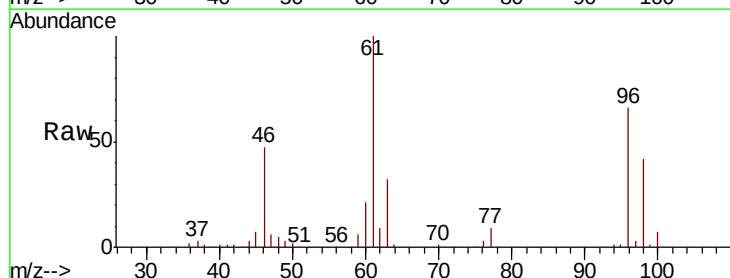
Tgt Ion: 96 Resp: 72286

Ion Ratio Lower Upper

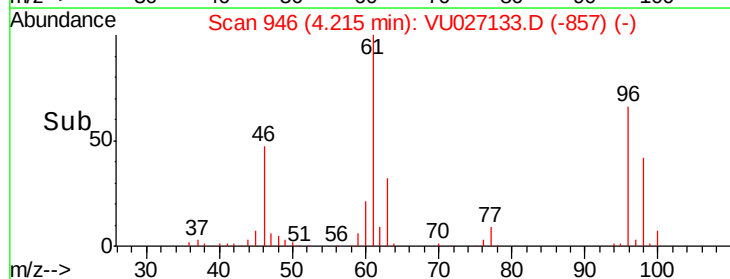
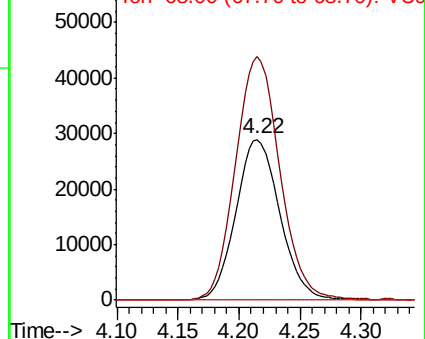
96 100

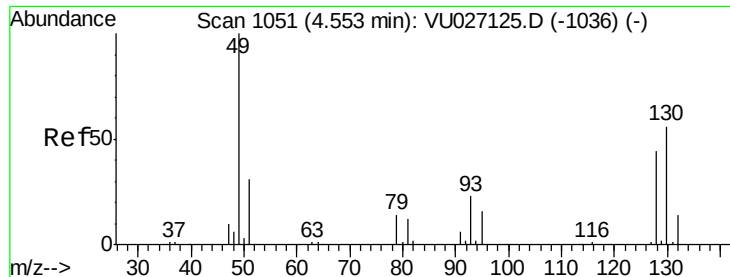
61 151.4 109.6 203.6

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 68.00 (67.70 to 68.70): VU0





#23

Bromochloromethane

Concen: 144.462 ug/L

RT: 4.54 min Scan# 1048

Delta R.T. -0.01 min

Lab File: VU027133.D

Acq: 25 Sep 2018 15:37

Instrument :

MSVOA_U

ClientSampleId :

X2D99

Tot Ion:128 Resp: 97391

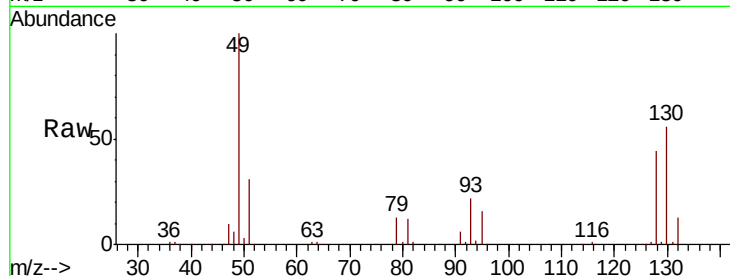
Ion Ratio Lower Upper

128 100

49 227.3 159.0 295.4

130 126.4 88.6 164.6

51 70.5 56.2 84.2

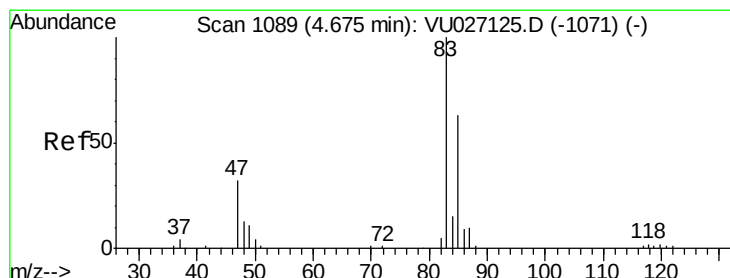
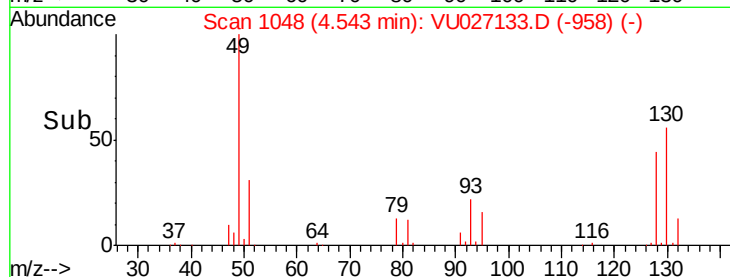
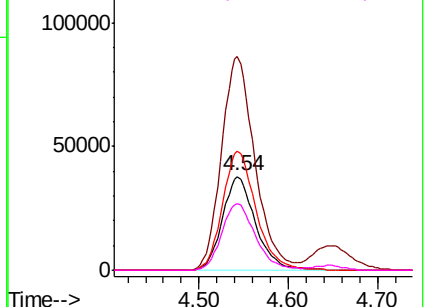


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VU0

Ion 130.00 (129.70 to 130.70): V

Ion 51.00 (50.70 to 51.70): VU0



#25

Chloroform

Concen: 25.740 ug/L

RT: 4.67 min Scan# 1088

Delta R.T. -0.00 min

Lab File: VU027133.D

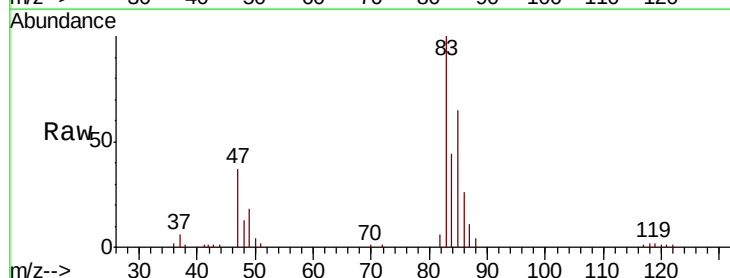
Acq: 25 Sep 2018 15:37

Tgt Ion: 83 Resp: 70664

Ion Ratio Lower Upper

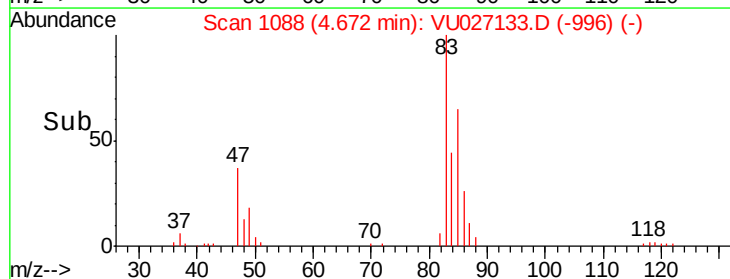
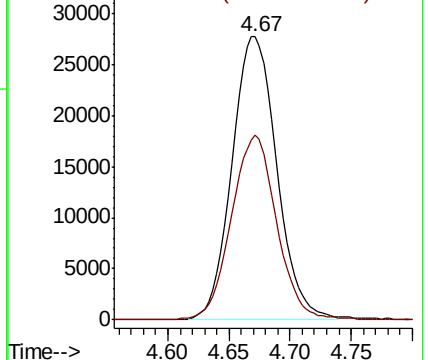
83 100

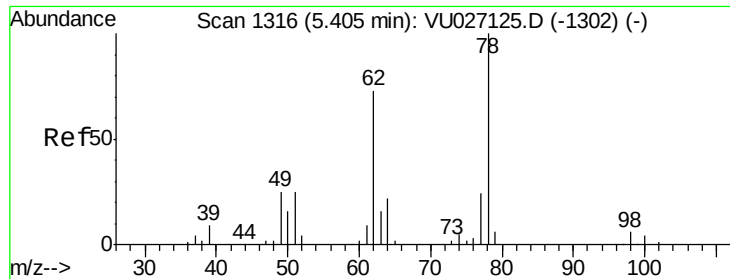
85 65.3 44.0 81.6



Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

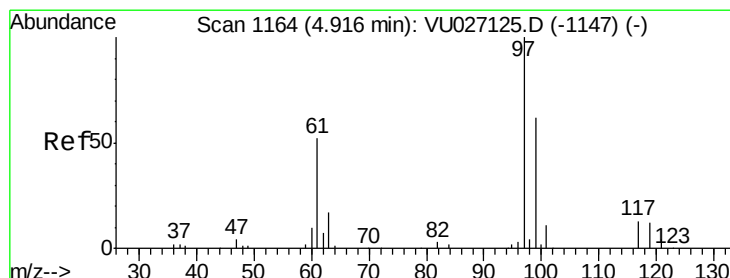
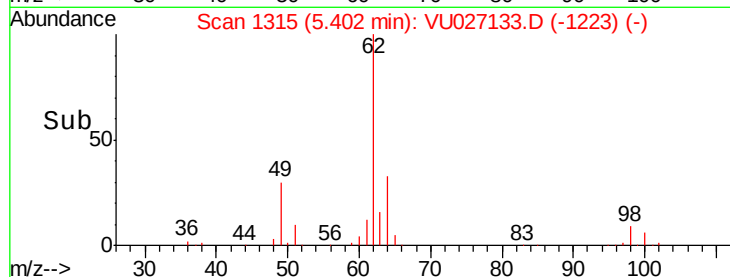
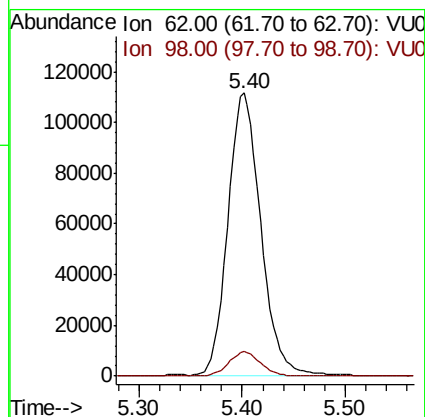
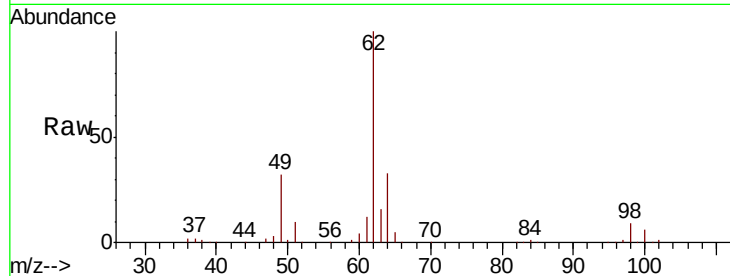




#27
 1,2-Dichloroethane
 Concen: 108.316 ug/L
 RT: 5.40 min Scan# 1315
 Delta R.T. -0.00 min
 Lab File: VU027133.D
 Acq: 25 Sep 2018 15:37

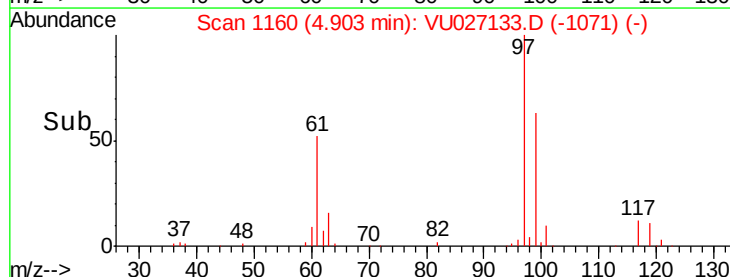
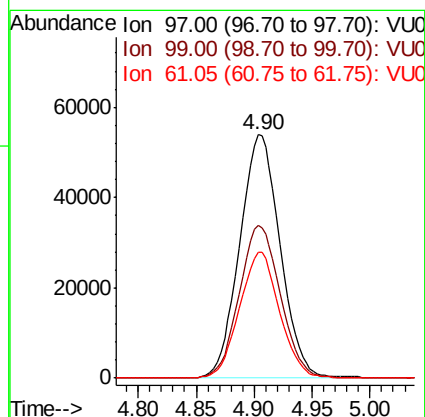
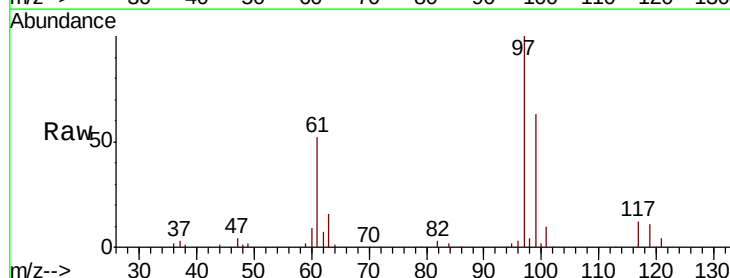
Instrument :
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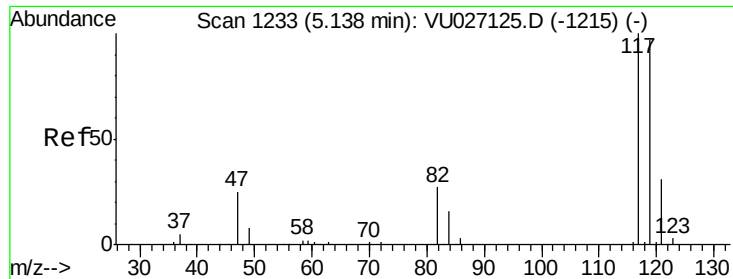
Tot Ion: 62 Resp: 246730
 Ion Ratio Lower Upper
 62 100
 98 8.7 6.4 9.6



#30
 1,1,1-Trichloroethane
 Concen: 60.999 ug/L
 RT: 4.90 min Scan# 1160
 Delta R.T. -0.01 min
 Lab File: VU027133.D
 Acq: 25 Sep 2018 15:37

Tgt Ion: 97 Resp: 131161
 Ion Ratio Lower Upper
 97 100
 99 63.6 51.7 77.5
 61 51.4 42.3 63.5

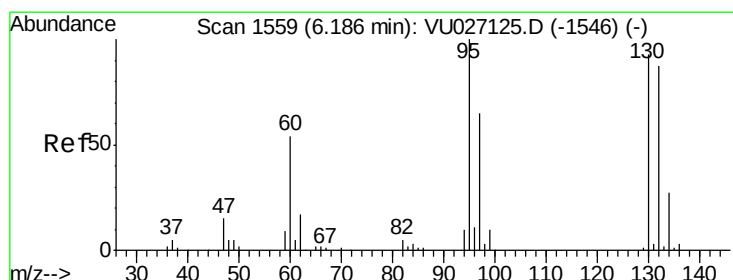
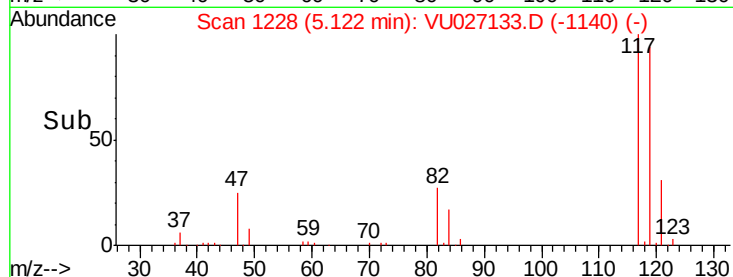
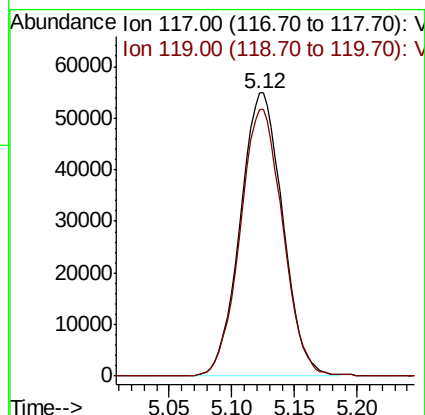
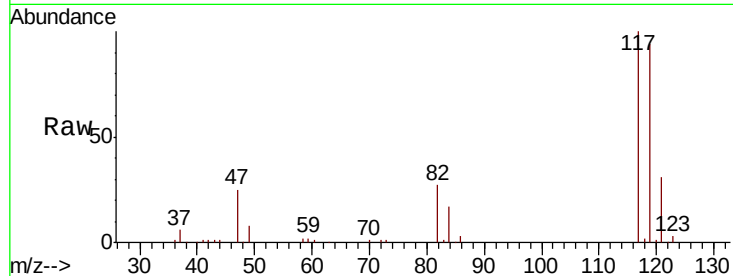




#31
Carbon tetrachloride
Concen: 70.781 ug/L
RT: 5.12 min Scan# 1228
Delta R.T. -0.02 min
Lab File: VU027133.D
Acq: 25 Sep 2018 15:37

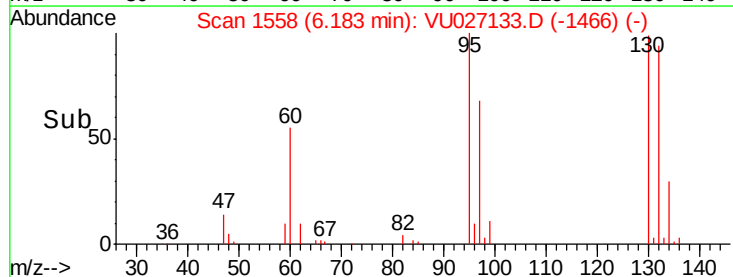
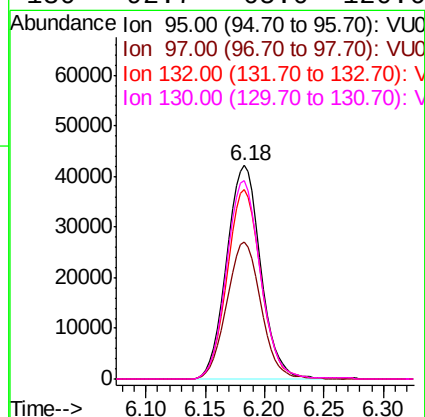
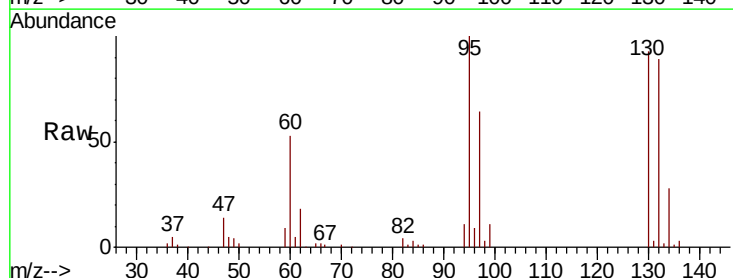
Instrument :
MSVOA_U
ClientSampleId :
X2D99

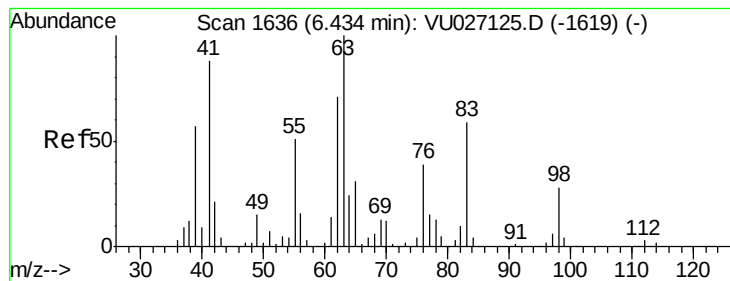
Tot Ion:117 Resp: 128943
Ion Ratio Lower Upper
117 100
119 95.0 76.9 115.3



#34
Trichloroethene
Concen: 62.398 ug/L
RT: 6.18 min Scan# 1558
Delta R.T. -0.00 min
Lab File: VU027133.D
Acq: 25 Sep 2018 15:37

Tgt Ion: 95 Resp: 83915
Ion Ratio Lower Upper
95 100
97 64.1 45.4 84.2
132 88.6 61.1 113.5
130 92.7 65.0 120.6





#37

1,2-Dichloropropane

Concen: 63.718 ug/L

RT: 6.43 min Scan# 1635

Delta R.T. -0.00 min

Lab File: VU027133.D

Acq: 25 Sep 2018 15:37

Instrument :

MSVOA_U

ClientSampled :

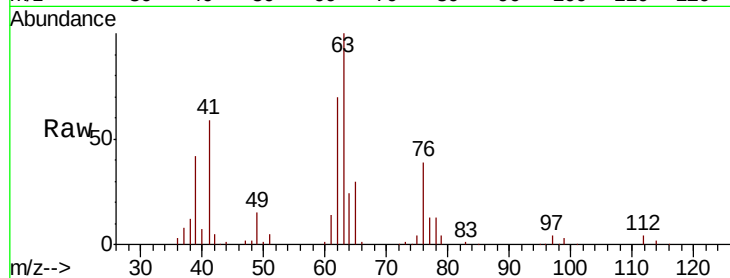
X2D99

Tot Ion: 63 Resp: 112636

Ion Ratio Lower Upper

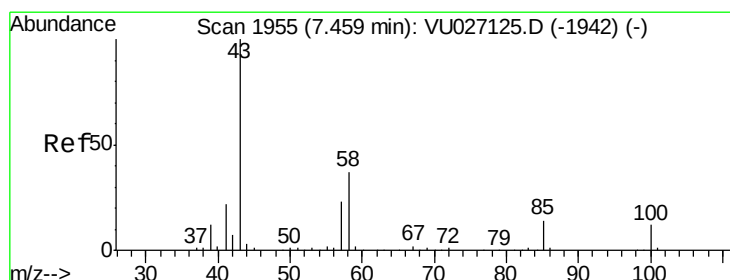
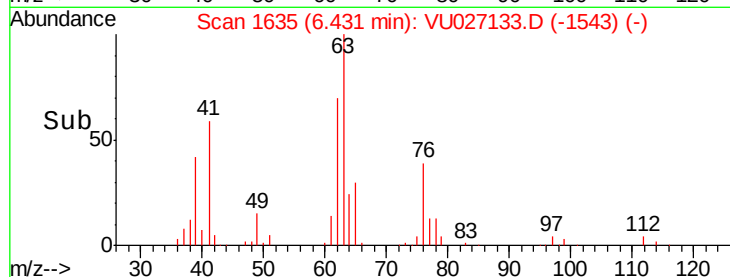
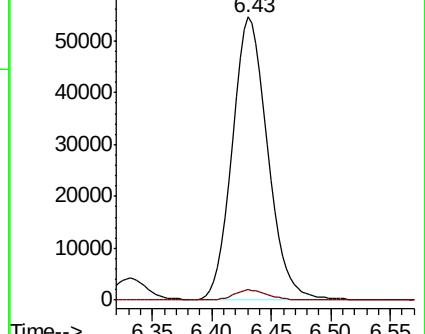
63 100

112 3.4 2.9 4.3



Abundance Ion 63.00 (62.70 to 63.70): VU0

Ion 112.00 (111.70 to 112.70): V



#40

4-Methyl-2-pentanone

Concen: 256.878 ug/L

RT: 7.48 min Scan# 1961

Delta R.T. 0.02 min

Lab File: VU027133.D

Acq: 25 Sep 2018 15:37

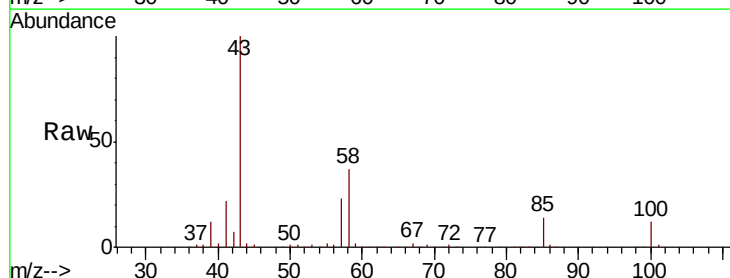
Tgt Ion: 43 Resp: 666160

Ion Ratio Lower Upper

43 100

58 36.4 29.0 43.6

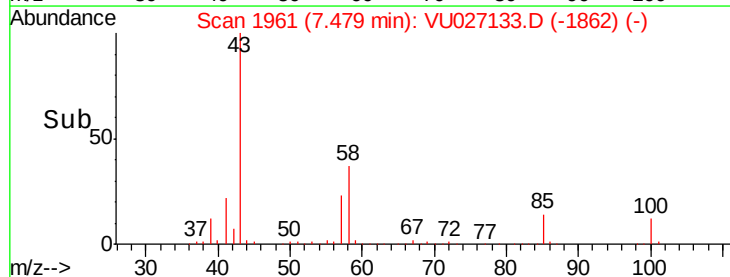
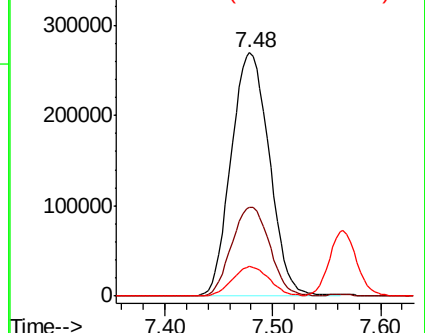
100 11.7 9.4 14.0

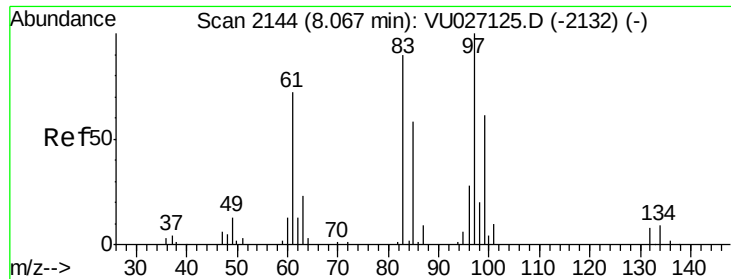


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

Ion 100.00 (99.70 to 100.70): VU0

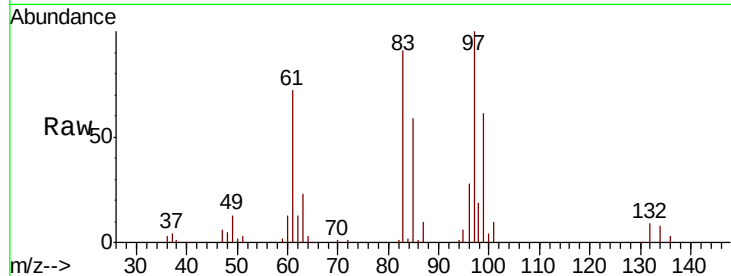




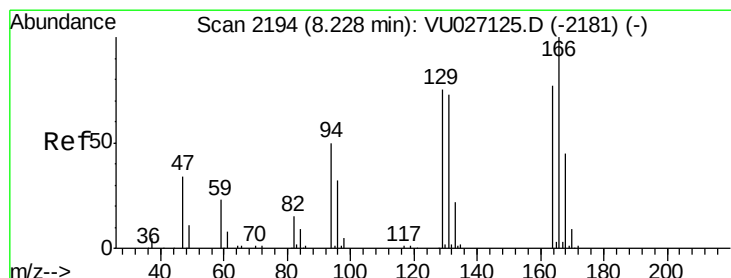
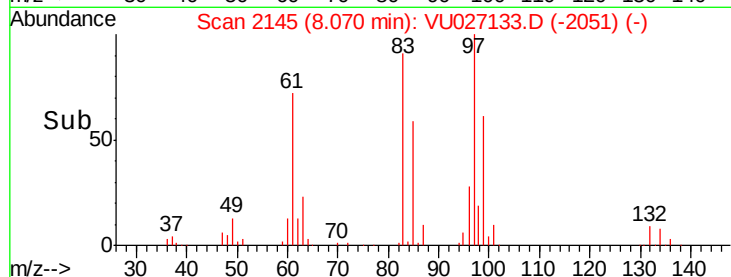
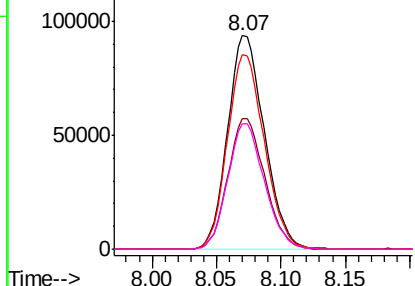
#45
1,1,2-Trichloroethane
Concen: 133.304 ug/L
RT: 8.07 min Scan# 2145
Delta R.T. 0.00 min
Lab File: VU027133.D
Acq: 25 Sep 2018 15:37

Instrument :
MSVOA_U
ClientSampled :
X2D99

Tot Ion:	97	Resp:	186699
Ion	Ratio	Lower	Upper
97	100		
99	61.0	42.8	79.4
83	91.2	63.2	117.4
85	58.6	40.9	75.9

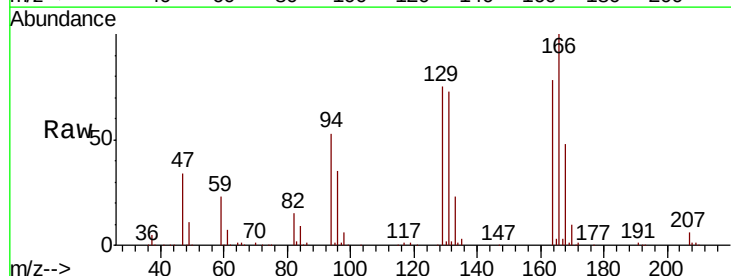


Abundance Ion 97.00 (96.70 to 97.70): VU0
Ion 99.00 (98.70 to 99.70): VU0
Ion 83.00 (82.70 to 83.70): VU0
Ion 85.00 (84.70 to 85.70): VU0

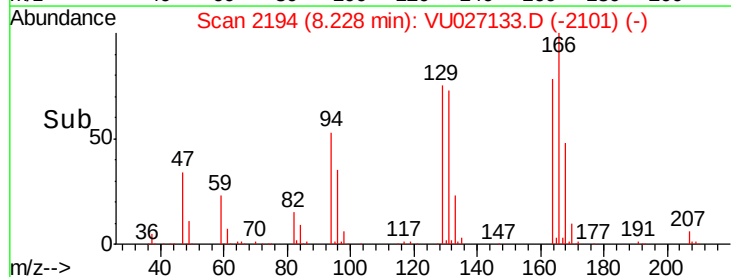
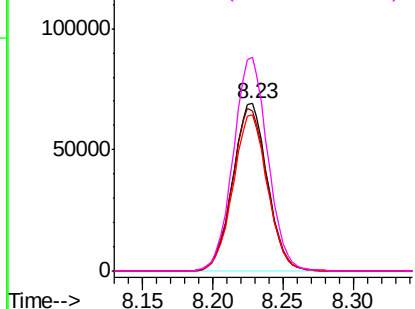


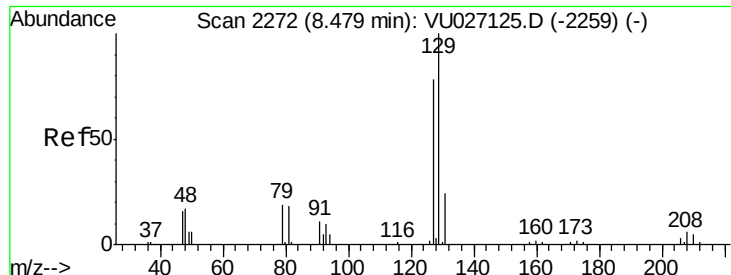
#46
Tetrachloroethene
Concen: 123.457 ug/L
RT: 8.23 min Scan# 2194
Delta R.T. 0.00 min
Lab File: VU027133.D
Acq: 25 Sep 2018 15:37

Tgt Ion:	164	Resp:	119068
Ion	Ratio	Lower	Upper
164	100		
129	95.9	67.8	125.8
131	93.2	66.4	123.2
166	127.7	90.4	167.8



Abundance Ion 164.00 (163.70 to 164.70): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V
Ion 166.00 (165.70 to 166.70): V





#49

Dibromochloromethane

Concen: 149.909 ug/L

RT: 8.48 min Scan# 2273

Delta R.T. 0.00 min

Lab File: VU027133.D

Acq: 25 Sep 2018 15:37

Instrument :

MSVOA_U

ClientSampleId :

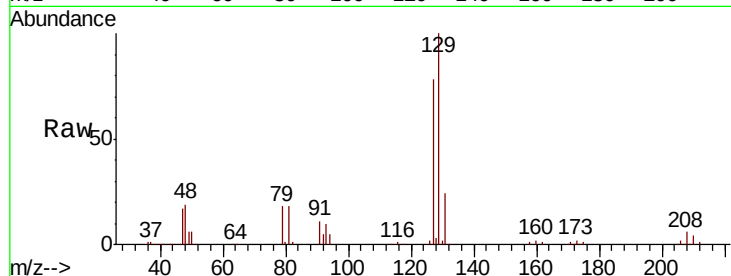
X2D99

Tot Ion:129 Resp: 214217

Ion Ratio Lower Upper

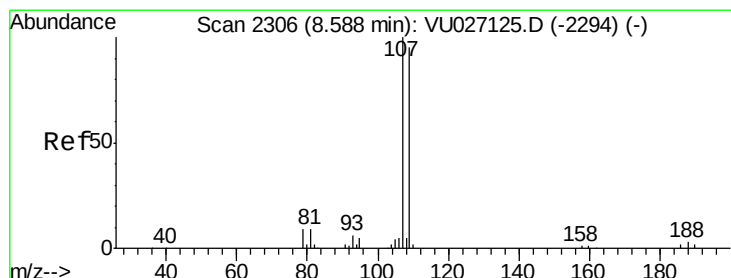
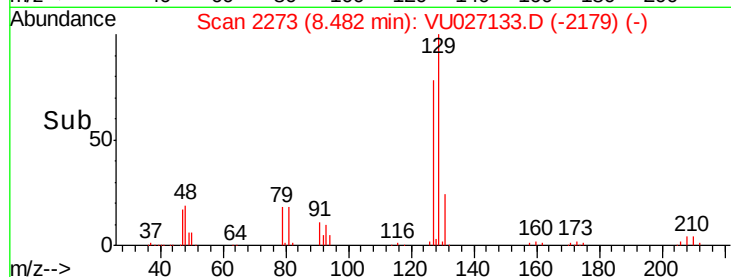
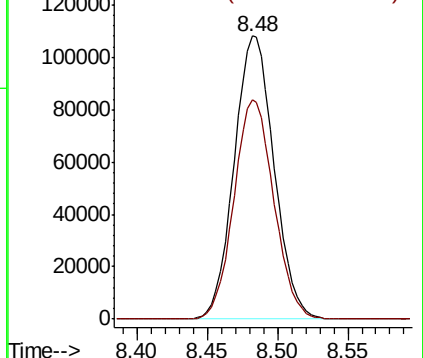
129 100

127 77.7 54.7 101.5



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#50

1,2-Dibromoethane

Concen: 95.285 ug/L

RT: 8.59 min Scan# 2306

Delta R.T. 0.00 min

Lab File: VU027133.D

Acq: 25 Sep 2018 15:37

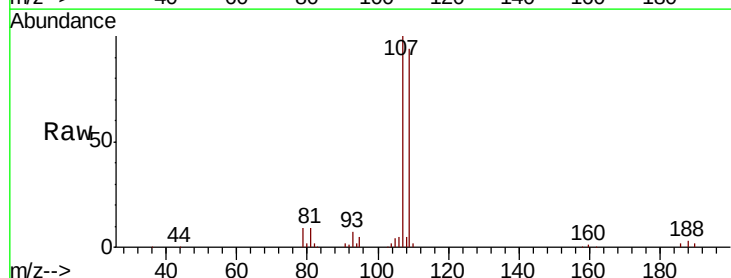
Tgt Ion:107 Resp: 137052

Ion Ratio Lower Upper

107 100

109 93.8 66.8 124.0

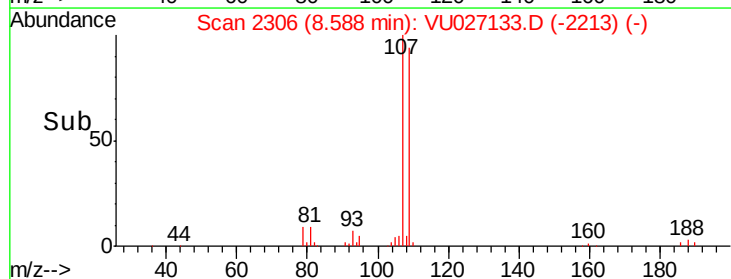
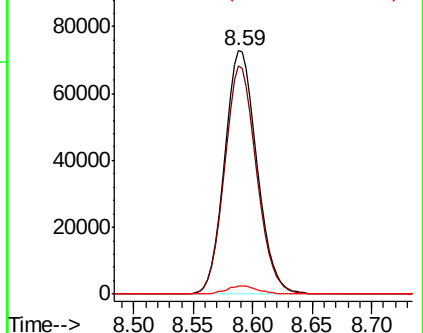
188 3.3 2.7 4.1

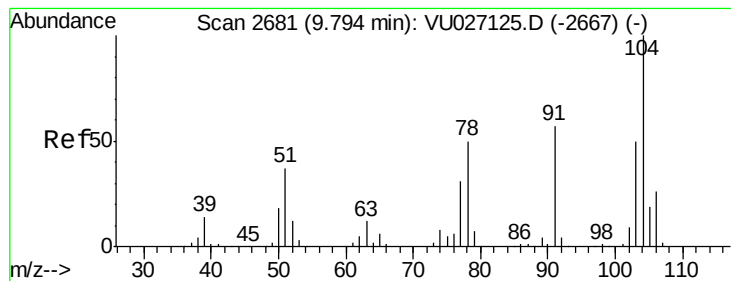


Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V





#55

Stvrene

Concen: 52.334 ug/L

RT: 9.80 min Scan# 2682

Delta R.T. 0.00 min

Lab File: VU027133.D

Acq: 25 Sep 2018 15:37

Instrument :

MSVOA_U

ClientSampleId :

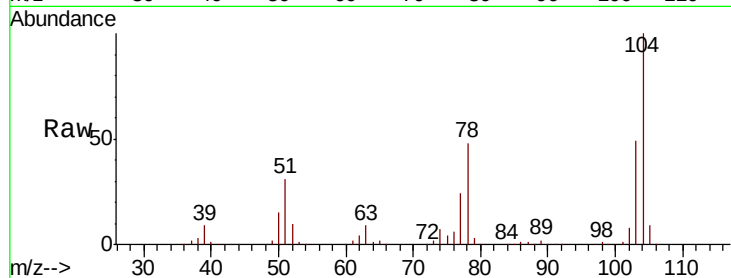
X2D99

Tot Ion:104 Resp: 194281

Ion Ratio Lower Upper

104 100

78 47.5 34.9 64.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0

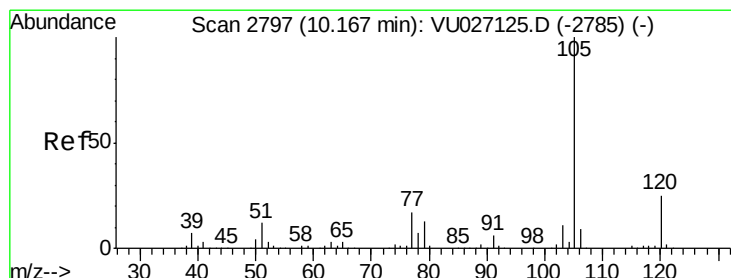
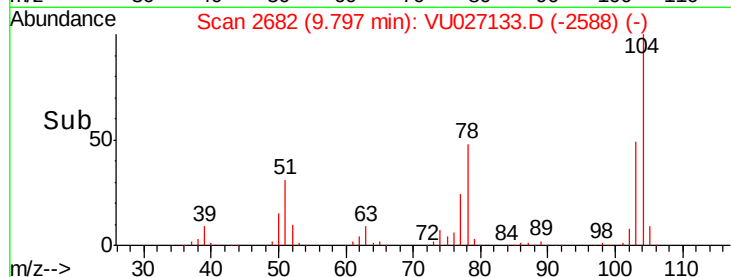
9.80

100000

50000

0

Time-->



#56

Isopropylbenzene

Concen: 45.390 ug/L

RT: 10.17 min Scan# 2798

Delta R.T. 0.00 min

Lab File: VU027133.D

Acq: 25 Sep 2018 15:37

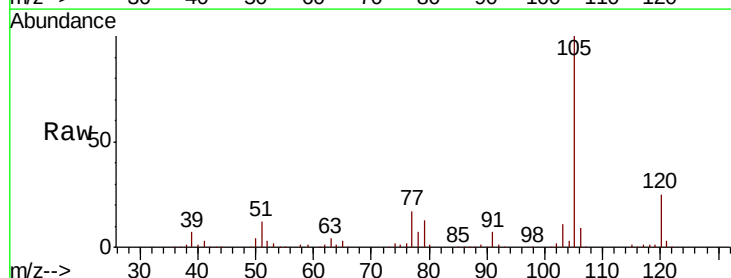
Tgt Ion:105 Resp: 256577

Ion Ratio Lower Upper

105 100

120 25.0 20.3 30.5

77 16.9 13.9 20.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VU0

10.17

200000

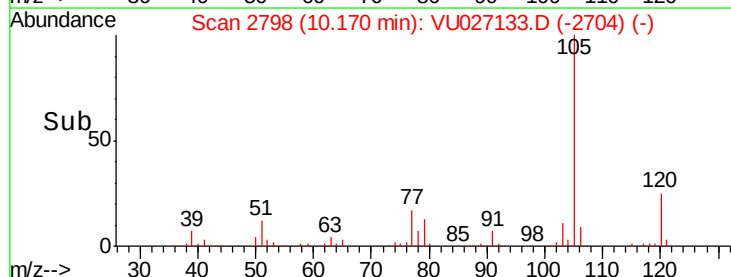
150000

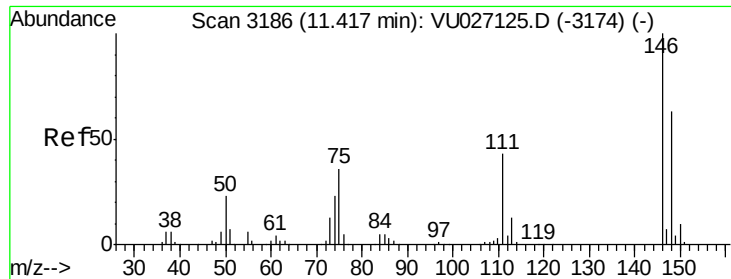
100000

50000

0

Time-->

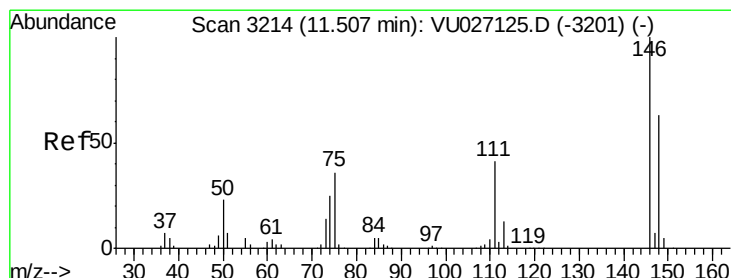
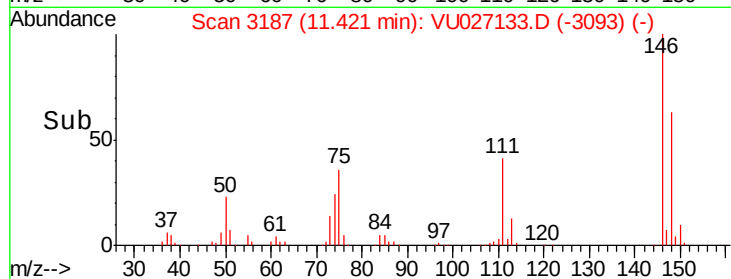
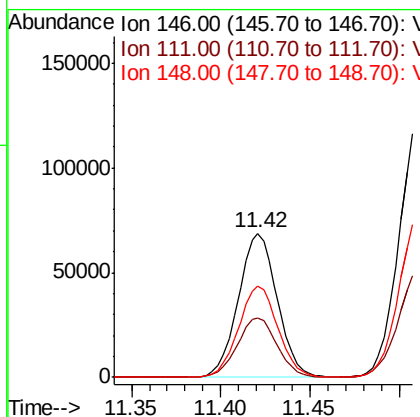
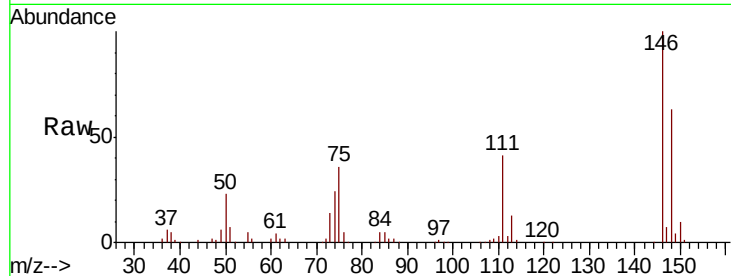




#62
 1,3-Dichlorobenzene
 Concen: 37.271 ug/L
 RT: 11.42 min Scan# 3187
 Delta R.T. 0.00 min
 Lab File: VU027133.D
 Acq: 25 Sep 2018 15:37

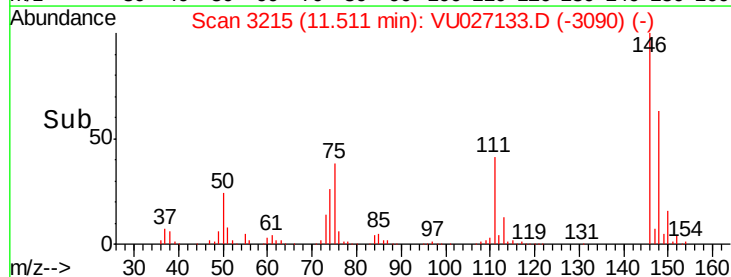
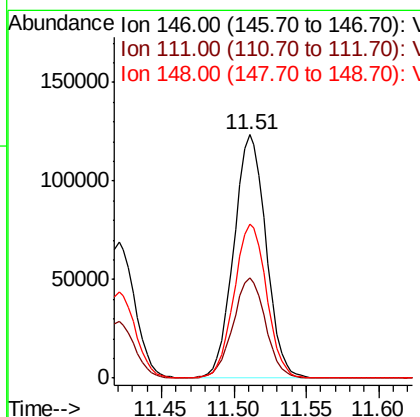
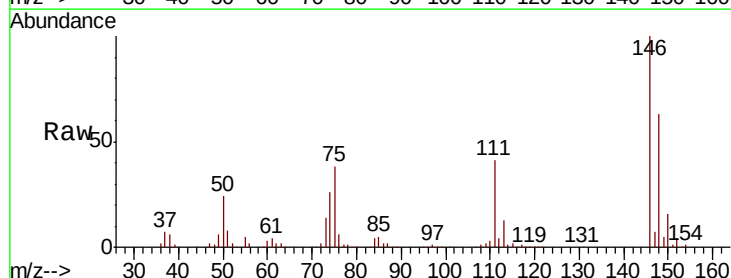
Instrument :
 MSVOA_U
 ClientSampleId :
 X2D99

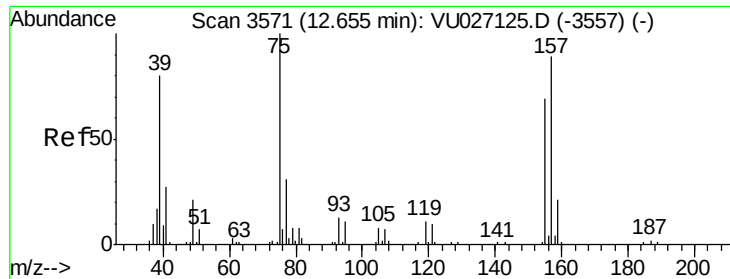
Tot Ion	146	Resp	104559
Ion Ratio	Lower	Upper	
146	100		
111	41.4	30.0	55.6
148	63.2	43.9	81.5



#63
 1,4-Dichlorobenzene
 Concen: 63.636 ug/L
 RT: 11.51 min Scan# 3215
 Delta R.T. 0.00 min
 Lab File: VU027133.D
 Acq: 25 Sep 2018 15:37

Tgt Ion	146	Resp	189413
Ion Ratio	Lower	Upper	
146	100		
111	41.0	28.5	52.9
148	63.1	43.8	81.4

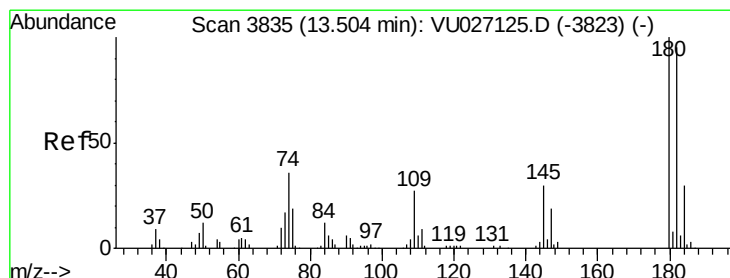
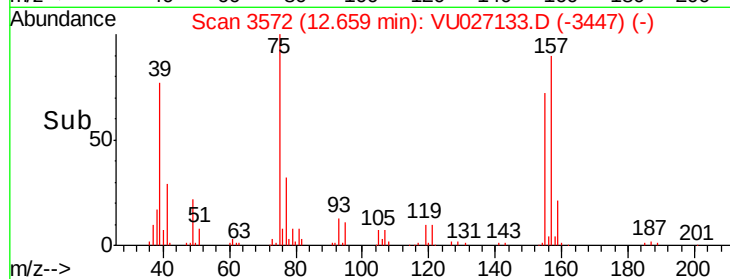
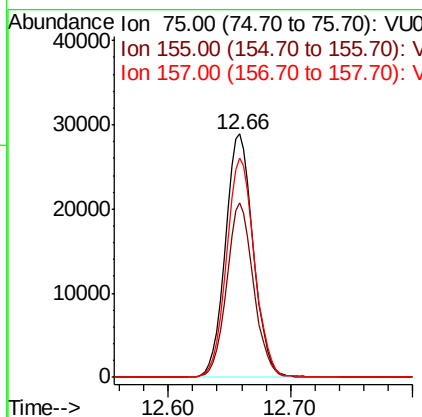
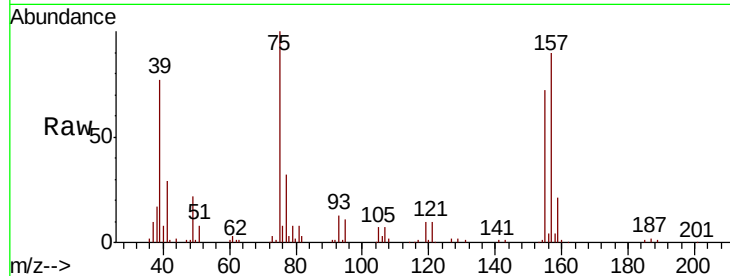




#66
 1,2-Dibromo-3-chloropropane
 Concen: 75.315 ug/L
 RT: 12.66 min Scan# 3572
 Delta R.T. 0.00 min
 Lab File: VU027133.D
 Acq: 25 Sep 2018 15:37

Instrument :
 MSVOA_U
 ClientSampleId :
 X2D99

Tot Ion: 75 Resp: 46309
 Ion Ratio Lower Upper
 75 100
 155 71.7 54.9 82.3
 157 90.0 70.9 106.3



#68
 1,2,4-trichlorobenzene
 Concen: 50.579 ug/L
 RT: 13.50 min Scan# 3835
 Delta R.T. 0.00 min
 Lab File: VU027133.D
 Acq: 25 Sep 2018 15:37

Tgt Ion: 180 Resp: 88119
 Ion Ratio Lower Upper
 180 100
 182 95.8 76.4 114.6
 145 30.5 24.3 36.5

