

Data File : VU027803.D
Acq On : 24 Oct 2018 22:36
Operator : MD/SY
Sample : VSTDCCC050EC
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 37 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD00503

Quant Time: Oct 25 07:26:23 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 25 07:21:42 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	38920	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	37506	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	19565	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	13812	4.35	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	87.00%
7) Chloroethane-d5	1.68	69	10893	4.54	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	90.80%
11) 1,1-Dichloroethene-d2	2.28	63	28483	4.69	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	93.80%
20) 2-Butanone-d5	4.20	46	46296	47.99	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	95.98%
24) Chloroform-d	4.65	84	25042	4.43	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.60%
26) 1,2-Dichloroethane-d4	5.31	65	15637	4.64	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.80%
32) Benzene-d6	5.34	84	49588	4.96	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.20%
36) 1,2-Dichloropropane-d6	6.33	67	17661	4.98	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	99.60%
41) Toluene-d8	7.57	98	46689	4.90	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.00%
43) trans-1,3-Dichloropropene-	7.85	79	6994	4.85	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	97.00%
46) 2-Hexanone-d5	8.31	63	39589	49.83	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	99.66%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	13241	4.91	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	98.20%
64) 1,2-Dichlorobenzene-d4	11.86	152	17692	4.80	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	96.00%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	18296	4.847 ug/L	99
3) Chloromethane	1.33	50	17535	4.137 ug/L	100
5) Vinyl chloride	1.41	62	18748	4.596 ug/L	94
6) Bromomethane	1.63	94	2904	1.389 ug/L	93
8) Chloroethane	1.70	64	10963	4.972 ug/L	98
9) Trichlorofluoromethane	1.89	101	26417	4.898 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	12495	4.590 ug/L	95
12) 1,1-Dichloroethene	2.29	96	12075	4.760 ug/L	93
13) Acetone	2.32	43	30234	43.477 ug/L	99
14) Carbon disulfide	2.48	76	39297	4.512 ug/L	97
15) Methyl Acetate	2.62	43	8628	4.434 ug/L #	89
16) Methylene chloride	2.70	84	13466	4.501 ug/L	95
17) Methyl tert-butyl Ether	3.01	73	38670	4.762 ug/L	98
18) trans-1,2-Dichloroethene	2.98	96	13359	4.914 ug/L	96
19) 1,1-Dichloroethane	3.45	63	28948	4.816 ug/L	98
21) 2-Butanone	4.28	43	54169	47.475 ug/L	97
22) cis-1,2-Dichloroethene	4.23	96	14897	4.613 ug/L	97

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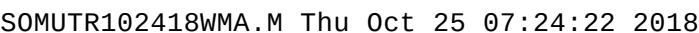
Instrument :
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ClientSampleId :
VSTD00503

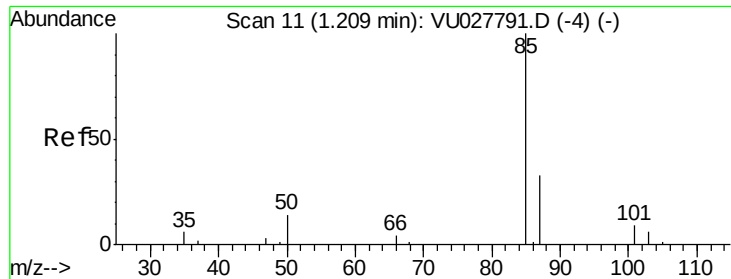
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	6174	4.716	ug/L	97
25) Chloroform	4.68	83	31424	5.192	ug/L	97
27) 1,2-Dichloroethane	5.41	62	21728	4.860	ug/L	98
29) 1,1,1-Trichloroethane	4.92	97	27158	5.034	ug/L	97
30) Cyclohexane	4.99	56	28559	4.726	ug/L	99
31) Carbon tetrachloride	5.13	117	22565	4.875	ug/L	96
33) Benzene	5.39	78	61193	4.910	ug/L	100
34) Trichloroethene	6.19	95	15875	4.916	ug/L	95
35) Methylcyclohexane	6.41	83	25991	4.817	ug/L	99
37) 1,2-Dichloropropane	6.44	63	17528	4.790	ug/L	99
38) Bromodichloromethane	6.76	83	21088	4.826	ug/L	94
39) cis-1,3-Dichloropropene	7.27	75	24758	4.723	ug/L	98
40) 4-Methyl-2-pentanone	7.47	43	131915	48.218	ug/L	99
42) Toluene	7.64	91	65292	4.867	ug/L	100
44) trans-1,3-Dichloropropene	7.88	75	21198	4.802	ug/L	100
45) 1,1,2-Trichloroethane	8.07	97	10899	4.935	ug/L	95
47) Tetrachloroethene	8.23	164	12410	4.731	ug/L	96
48) 2-Hexanone	8.37	43	93181	47.934	ug/L	99
49) Dibromochloromethane	8.48	129	13473	4.787	ug/L	94
50) 1,2-Dibromoethane	8.59	107	10500	4.891	ug/L #	96
51) Chlorobenzene	9.12	112	40800	4.940	ug/L	98
52) Ethylbenzene	9.25	91	76462	4.913	ug/L	99
53) m,p-xylene	9.38	106	26851	4.871	ug/L	97
54) o-xylene	9.78	106	26974	5.008	ug/L	98
55) Styrene	9.79	104	45899	5.031	ug/L	98
56) Isopropylbenzene	10.17	105	74454	4.992	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.46	83	14598	5.025	ug/L	98
59) 1,2,3-Trichloropropane	10.49	75	10719	4.652	ug/L	98
61) Bromoform	9.96	173	7607	4.623	ug/L	99
62) 1,3-Dichlorobenzene	11.42	146	32961	4.790	ug/L	98
63) 1,4-Dichlorobenzene	11.51	146	33262	4.787	ug/L	97
65) 1,2-Dichlorobenzene	11.88	146	31291	4.836	ug/L	97
66) 1,2-Dibromo-3-chloropropan	12.66	75	2540	4.929	ug/L #	88
67) 1,3,5-Trichlorobenzene	12.89	180	26607	4.820	ug/L	98
68) 1,2,4-trichlorobenzene	13.50	180	23310	4.862	ug/L	99
69) Naphthalene	13.74	128	37082	4.762	ug/L	99
70) 1,2,3-Trichlorobenzene	13.99	180	21549	4.878	ug/L	99

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

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#2

Dichlorodifluoromethane

Concen: 4.847 ug/L

RT: 1.21 min Scan# 11

Delta R.T. 0.00 min

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MSVOA_U

ClientSampleId :

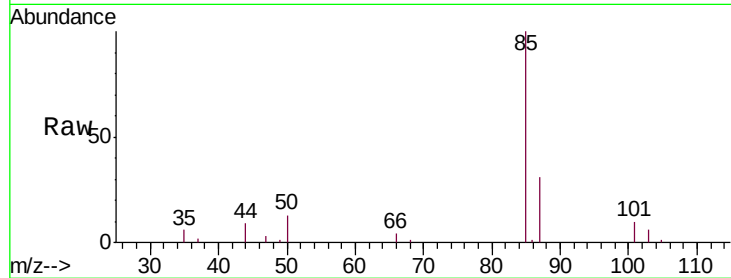
VSTD00503

Tgt Ion: 85 Resp: 18296

Ion Ratio Lower Upper

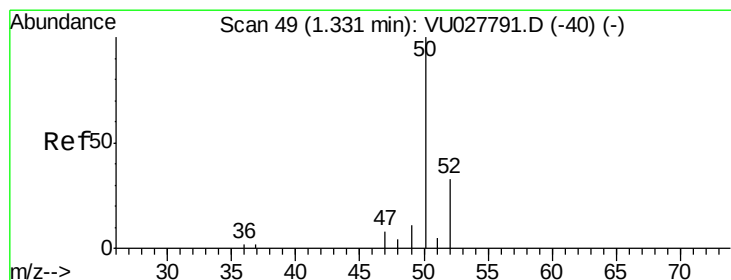
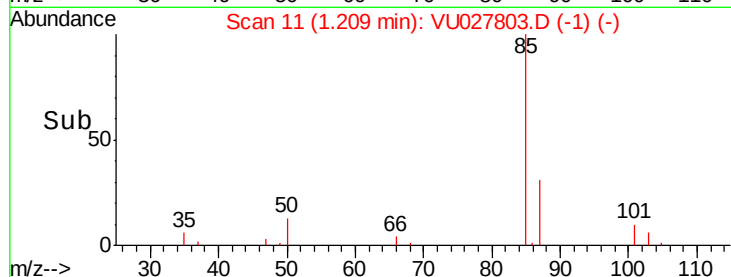
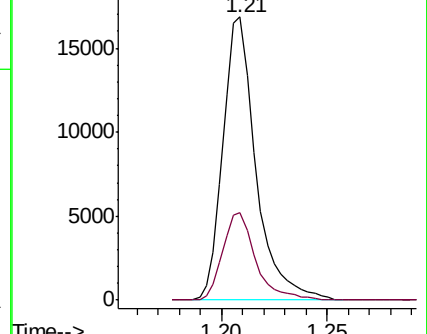
85 100

87 31.0 25.4 38.0



Abundance Ion 85.00 (84.70 to 85.70): VU027791.D (-4) (-)

Ion 87.00 (86.70 to 87.70): VU027791.D (-4) (-)



#3

Chloromethane

Concen: 4.137 ug/L

RT: 1.33 min Scan# 49

Delta R.T. 0.00 min

Lab File: VU027803.D

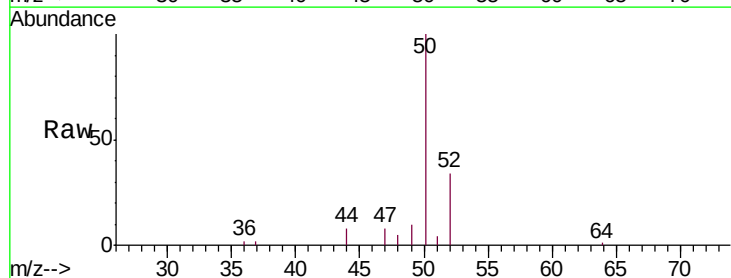
Acq: 24 Oct 2018 22:36

Tgt Ion: 50 Resp: 17535

Ion Ratio Lower Upper

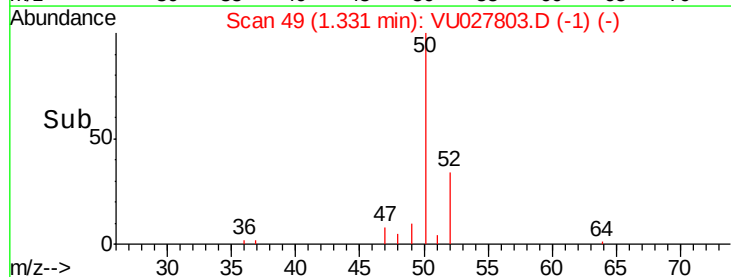
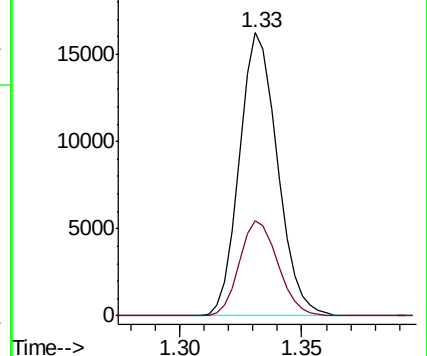
50 100

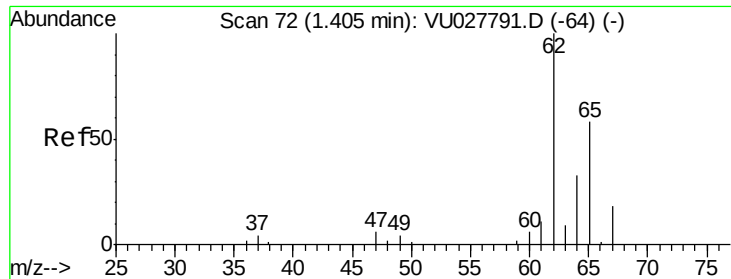
52 33.7 23.7 43.9



Abundance Ion 50.05 (49.75 to 50.75): VU027791.D (-40) (-)

Ion 52.05 (51.75 to 52.75): VU027791.D (-40) (-)





#5

Vinyl chloride

Concen: 4.596 ug/L

RT: 1.41 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU027803.D

Acq: 24 Oct 2018 22:36

Instrument :

MSVOA_U

ClientSampleId :

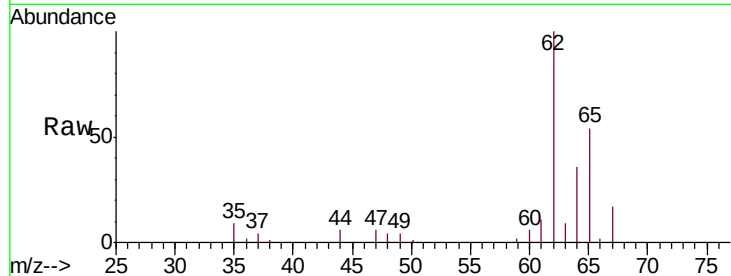
VSTD00503

Tgt Ion: 62 Resp: 18748

Ion Ratio Lower Upper

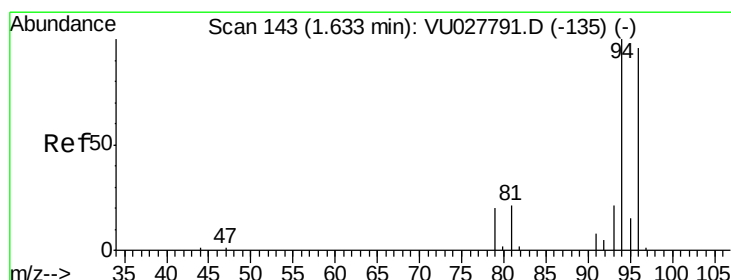
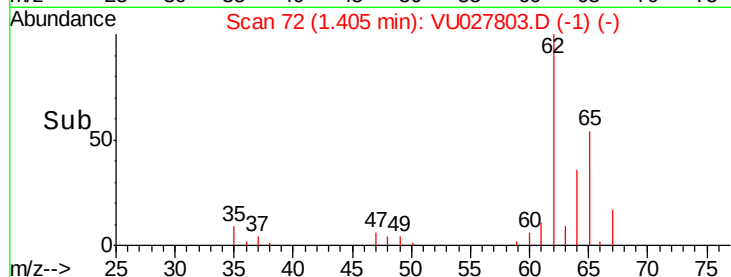
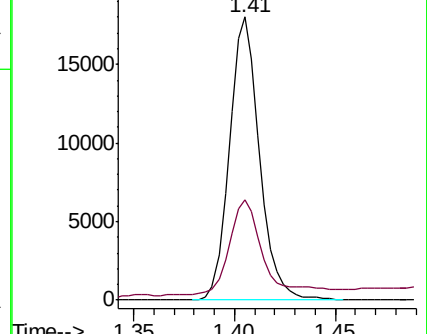
62 100

64 35.7 22.7 42.1



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



#6

Bromomethane

Concen: 1.389 ug/L

RT: 1.63 min Scan# 142

Delta R.T. -0.00 min

Lab File: VU027803.D

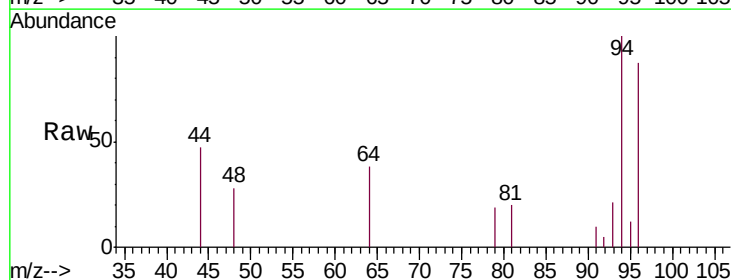
Acq: 24 Oct 2018 22:36

Tgt Ion: 94 Resp: 2904

Ion Ratio Lower Upper

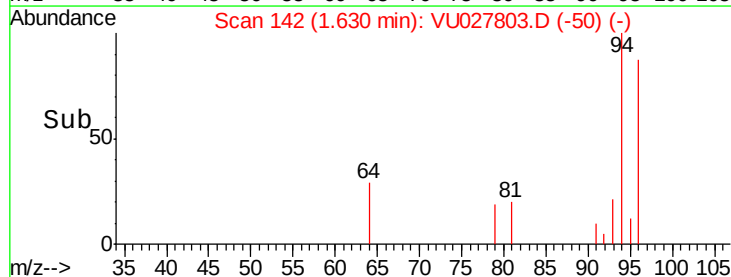
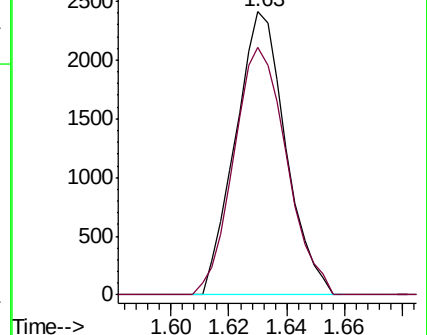
94 100

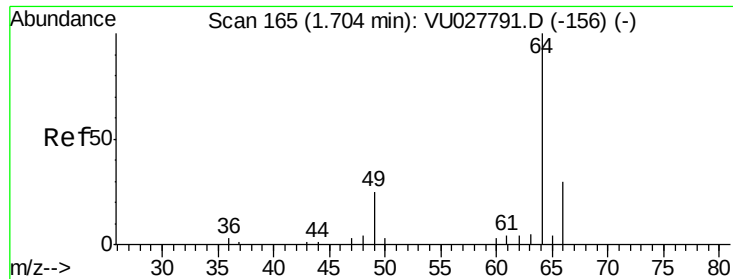
96 87.3 65.5 121.7



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

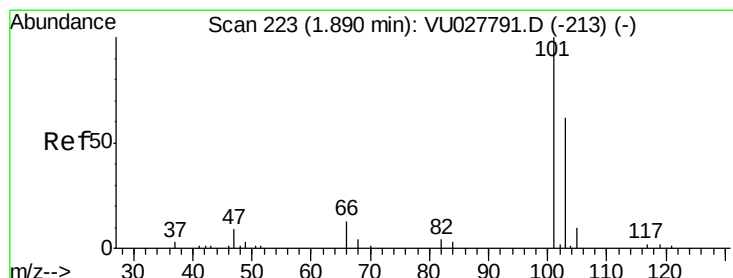
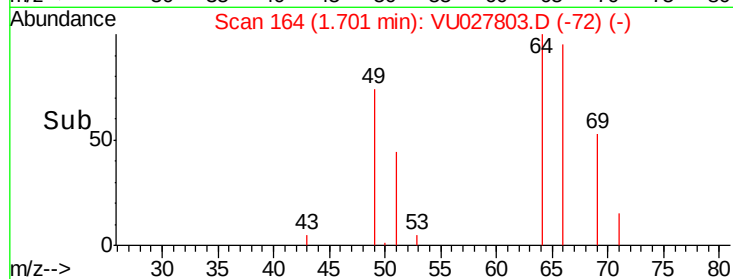
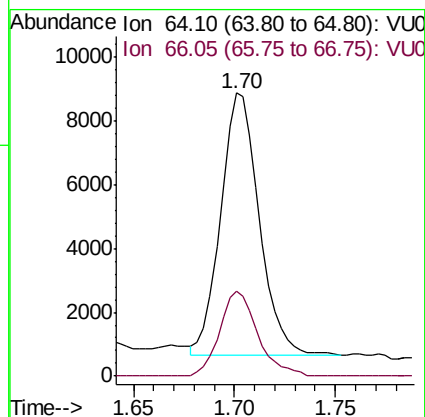
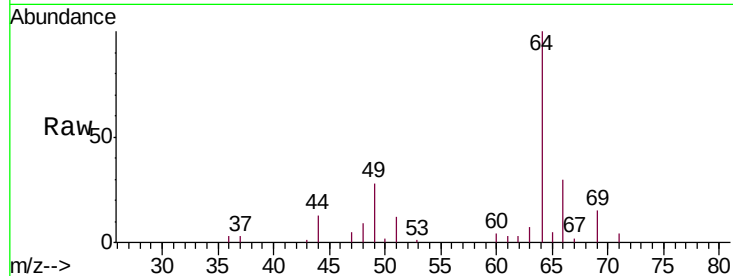




#8
Chloroethane
Concen: 4.972 ug/L
RT: 1.70 min Scan# 164
Delta R.T. -0.00 min
Lab File: VU027803.D
Acq: 24 Oct 2018 22:36

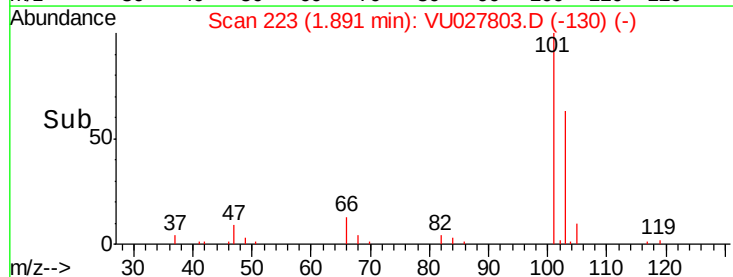
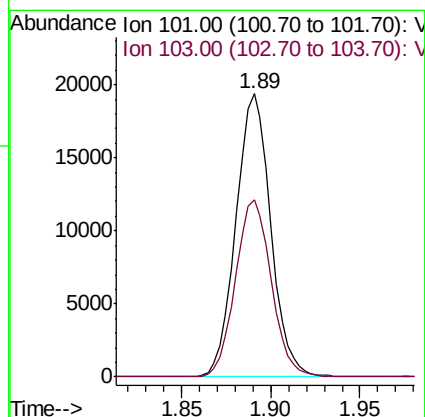
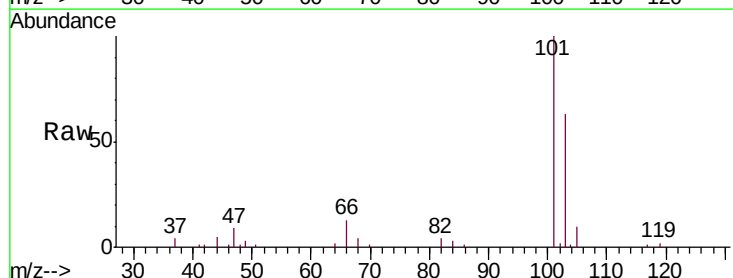
Instrument :
MSVOA_U
ClientSampleId :
VSTD00503

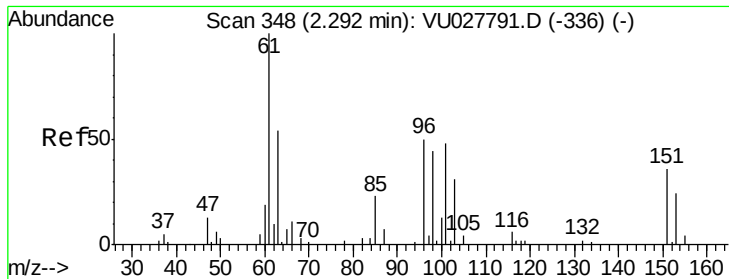
Tgt Ion: 64 Resp: 10963
Ion Ratio Lower Upper
64 100
66 30.1 20.3 37.7



#9
Trichlorofluoromethane
Concen: 4.898 ug/L
RT: 1.89 min Scan# 223
Delta R.T. 0.00 min
Lab File: VU027803.D
Acq: 24 Oct 2018 22:36

Tgt Ion: 101 Resp: 26417
Ion Ratio Lower Upper
101 100
103 64.2 51.0 76.4





#10

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

Concen: 4.590 ug/L

RT: 2.29 min Scan# 348

Delta R.T. 0.00 min

Lab File: VU027803.D

Acq: 24 Oct 2018 22:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD00503

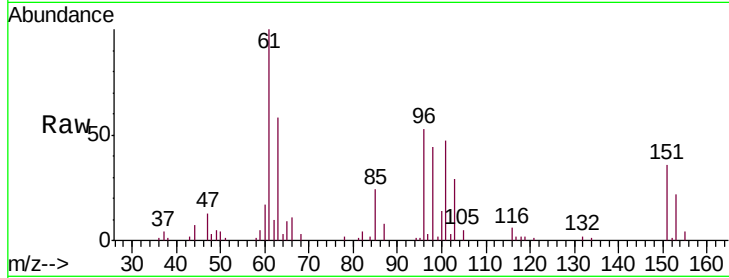
Tgt Ion: 101 Resp: 12495

Ion Ratio Lower Upper

101 100

85 49.9 38.1 57.1

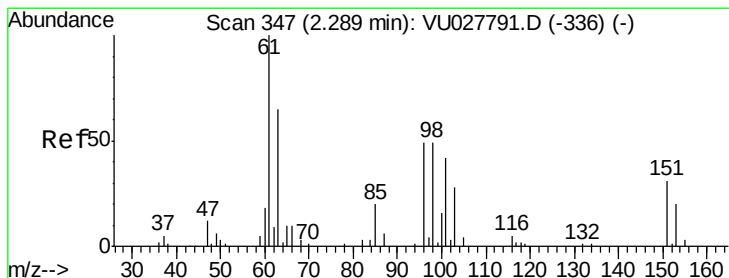
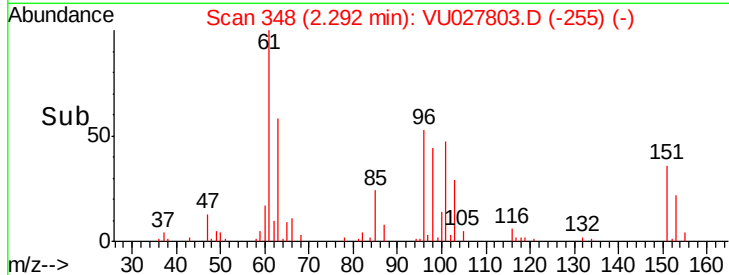
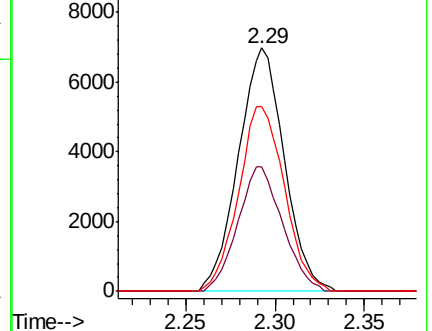
151 76.2 57.0 85.4



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



#12

1,1-Dichloroethene

Concen: 4.760 ug/L

RT: 2.29 min Scan# 347

Delta R.T. 0.00 min

Lab File: VU027803.D

Acq: 24 Oct 2018 22:36

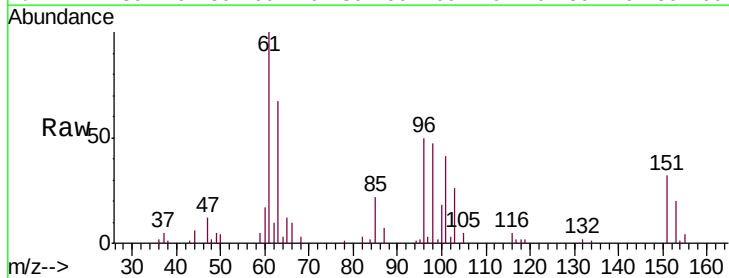
Tgt Ion: 96 Resp: 12075

Ion Ratio Lower Upper

96 100

61 200.7 143.8 267.0

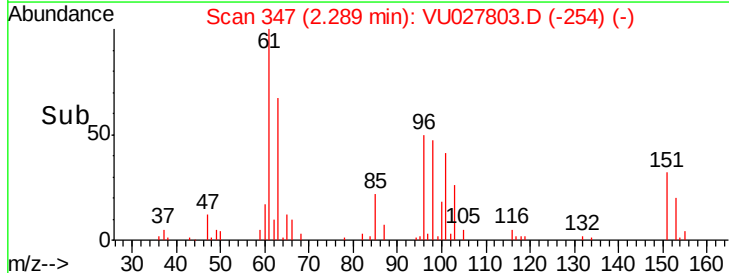
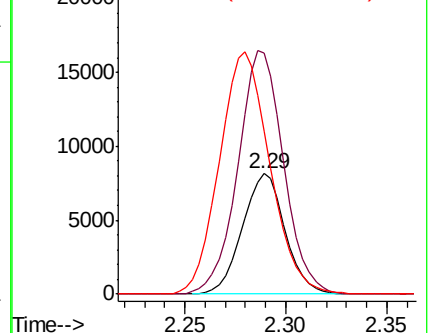
63 135.4 105.1 195.3

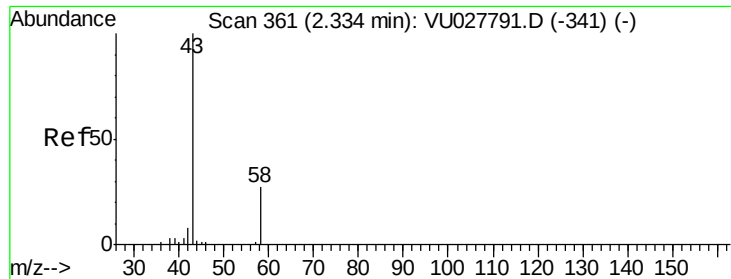


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 43.477 ug/L

RT: 2.32 min Scan# 358

Delta R.T. -0.01 min

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Instrument :

MSVOA_U

ClientSampleId :

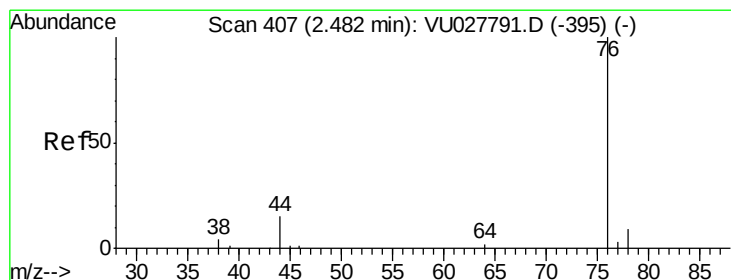
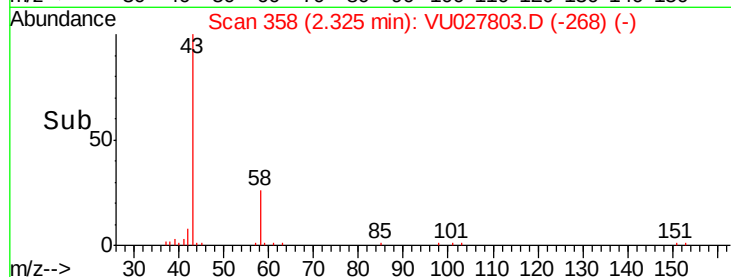
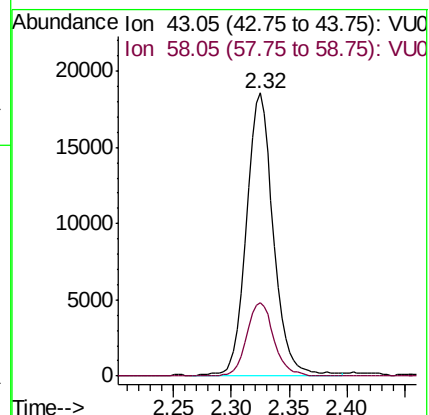
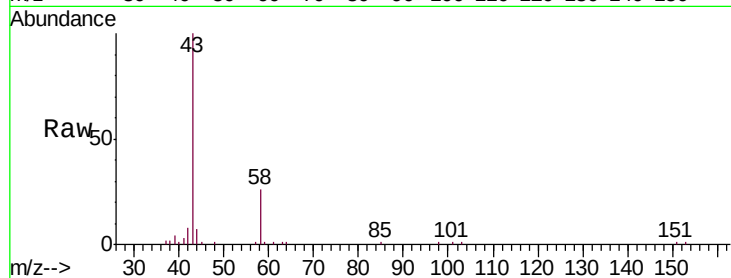
VSTD00503

Tgt Ion: 43 Resp: 30234

Ion Ratio Lower Upper

43 100

58 25.9 0.0 52.8



#14

Carbon disulfide

Concen: 4.512 ug/L

RT: 2.48 min Scan# 406

Delta R.T. -0.00 min

Lab File: VU027803.D

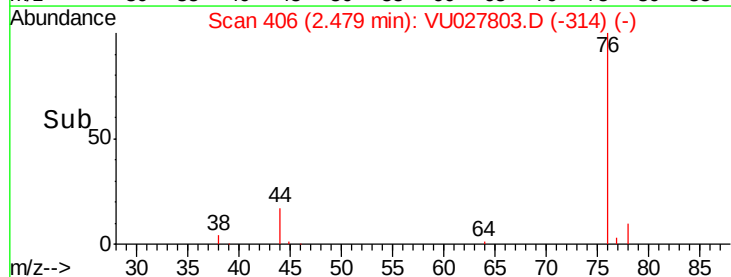
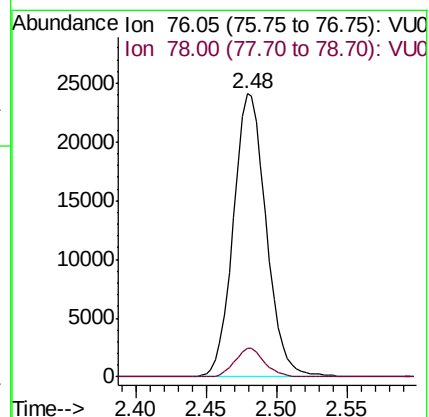
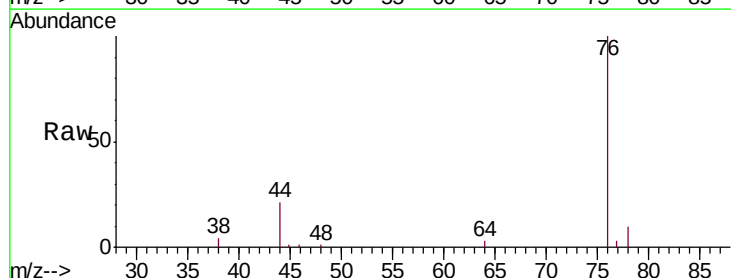
Acq: 24 Oct 2018 22:36

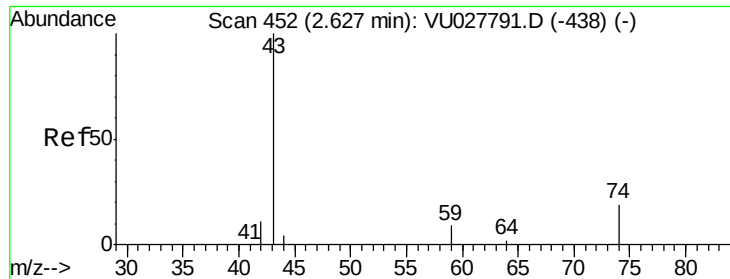
Tgt Ion: 76 Resp: 39297

Ion Ratio Lower Upper

76 100

78 10.2 7.4 11.0





#15

Methyl Acetate

Concen: 4.434 ug/L

RT: 2.62 min Scan# 450

Delta R.T. -0.01 min

Lab File: VU027803.D

Acq: 24 Oct 2018 22:36

Instrument :

MSVOA_U

ClientSampled :

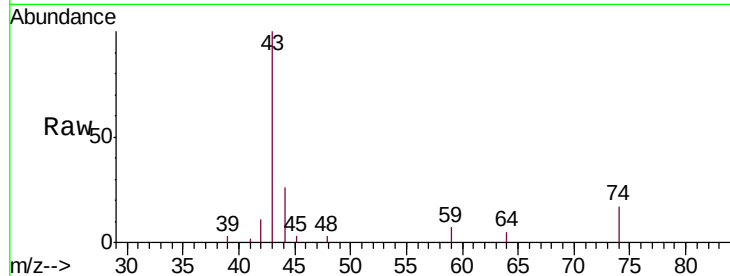
VSTD00503

Tgt Ion: 43 Resp: 8628

Ion Ratio Lower Upper

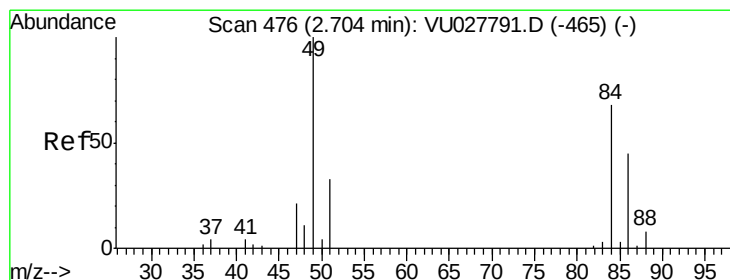
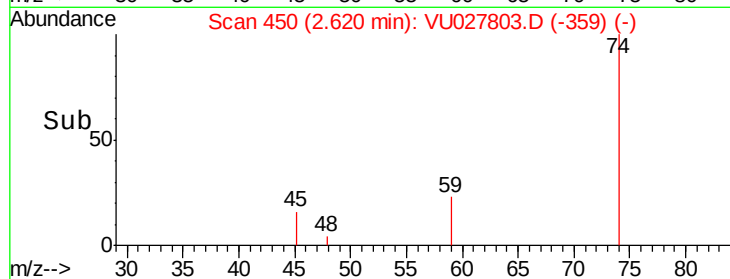
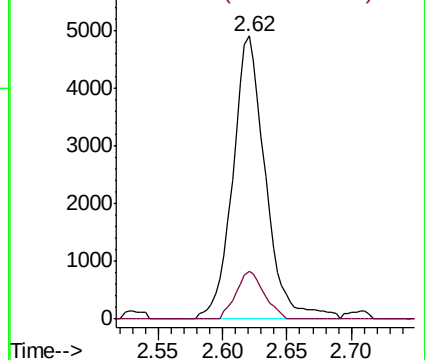
43 100

74 14.6 15.8 23.8#



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 74.05 (73.75 to 74.75): VU0



#16

Methylene chloride

Concen: 4.501 ug/L

RT: 2.70 min Scan# 476

Delta R.T. 0.00 min

Lab File: VU027803.D

Acq: 24 Oct 2018 22:36

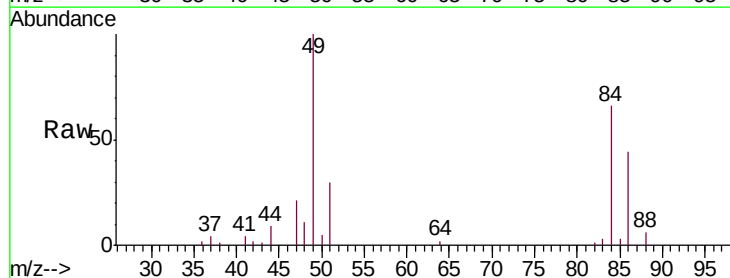
Tgt Ion: 84 Resp: 13466

Ion Ratio Lower Upper

84 100

86 65.9 42.8 79.4

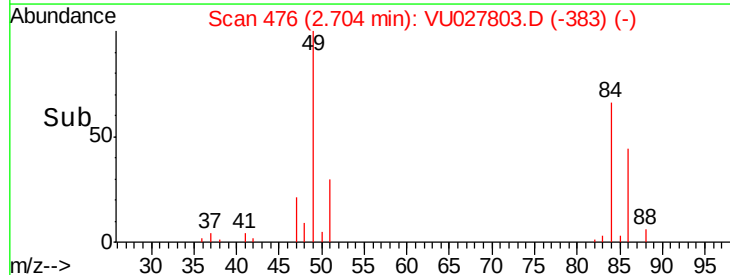
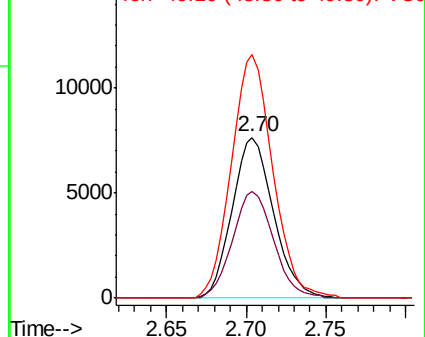
49 151.2 101.4 188.4

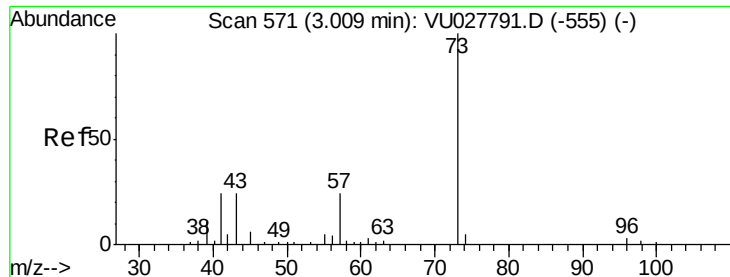


Abundance Ion 84.05 (83.75 to 84.75): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.10 (48.80 to 49.80): VU0



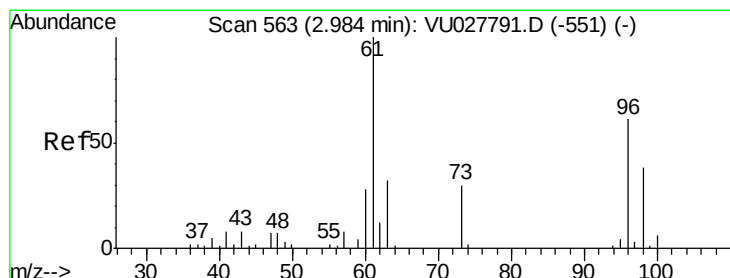
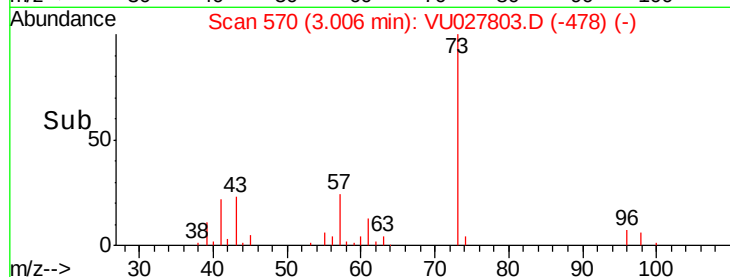
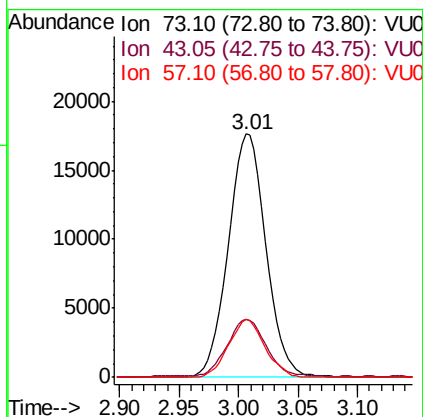
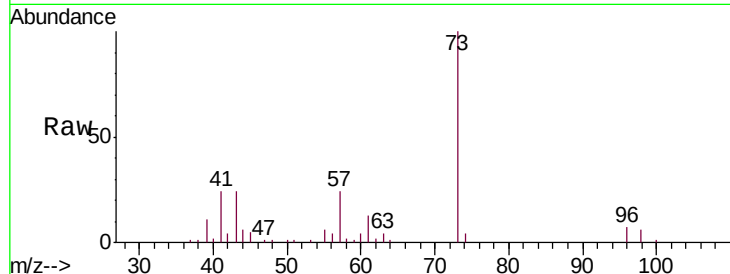


#17

Methyl tert-butyl Ether
 Concen: 4.762 ug/L
 RT: 3.01 min Scan# 570
 Delta R.T. -0.00 min
 Lab File: VU027803.D
 Acq: 24 Oct 2018 22:36

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00503

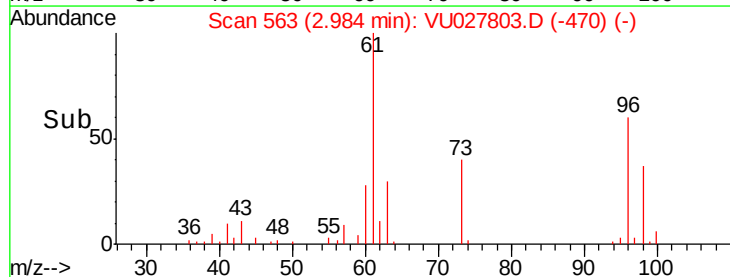
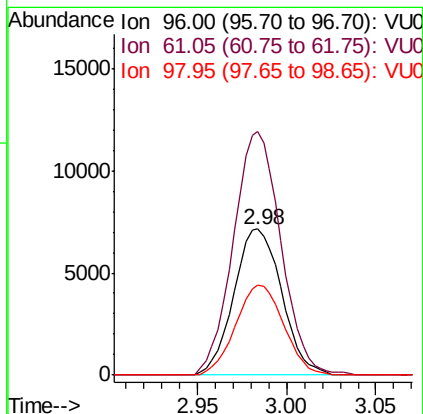
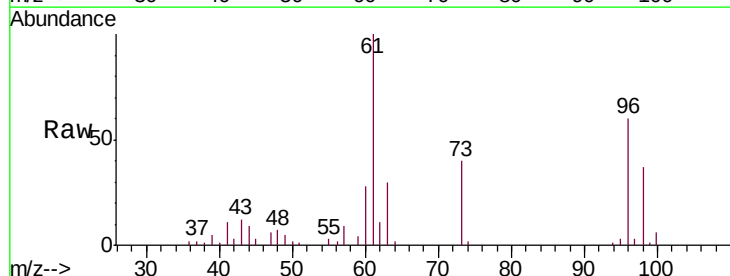
Tgt Ion: 73 Resp: 38670
 Ion Ratio Lower Upper
 73 100
 43 25.5 18.6 28.0
 57 22.8 18.2 27.2

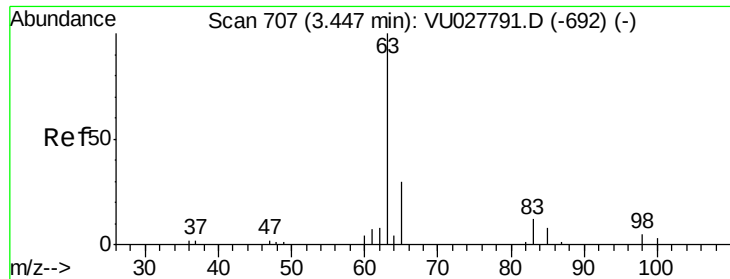


#18

trans-1,2-Dichloroethene
 Concen: 4.914 ug/L
 RT: 2.98 min Scan# 563
 Delta R.T. 0.00 min
 Lab File: VU027803.D
 Acq: 24 Oct 2018 22:36

Tgt Ion: 96 Resp: 13359
 Ion Ratio Lower Upper
 96 100
 61 166.8 112.1 208.3
 98 61.5 42.1 78.3

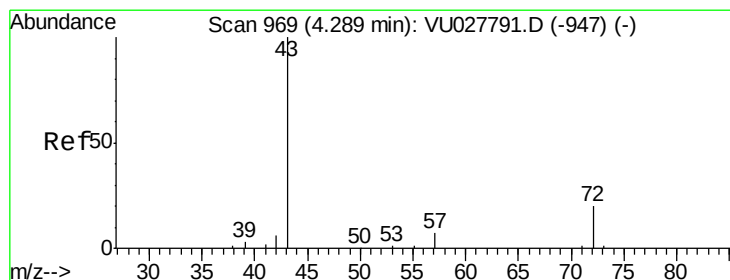
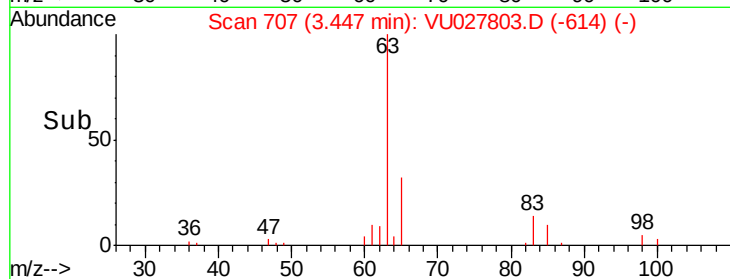
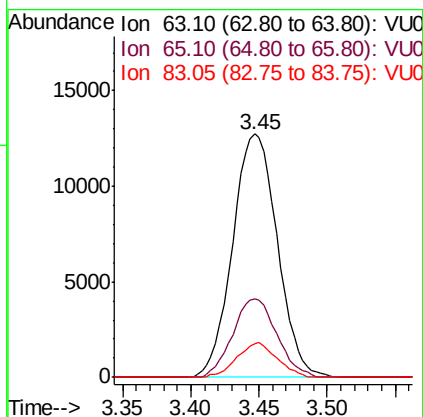
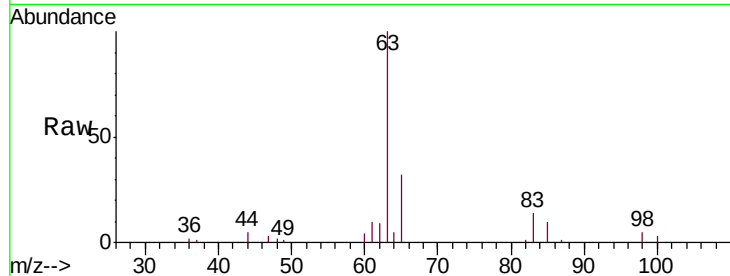




#19
 1,1-Dichloroethane
 Concen: 4.816 ug/L
 RT: 3.45 min Scan# 707
 Delta R.T. 0.00 min
 Lab File: VU027803.D
 Acq: 24 Oct 2018 22:36

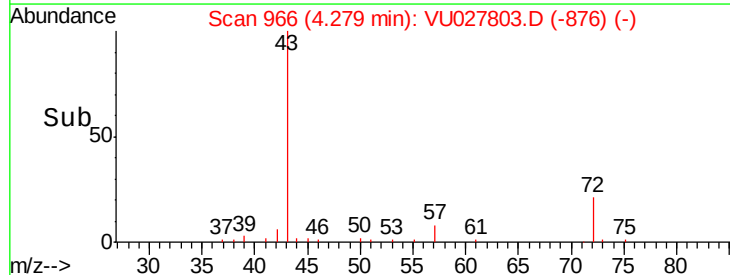
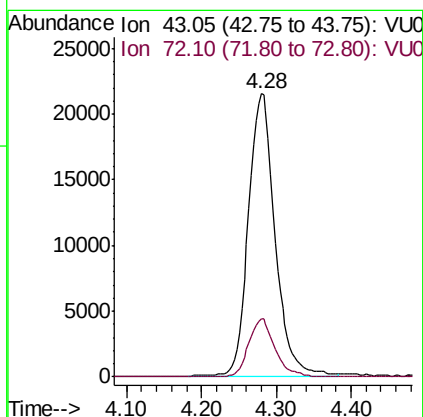
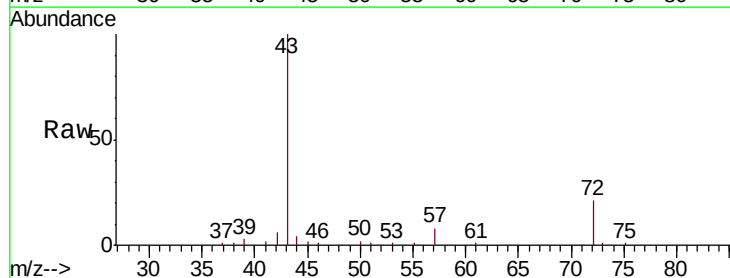
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00503

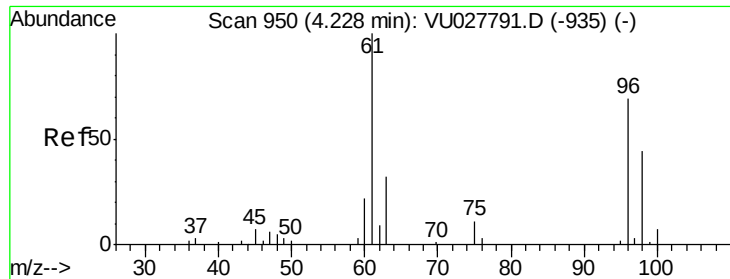
Tgt Ion: 63 Resp: 28948
 Ion Ratio Lower Upper
 63 100
 65 32.1 23.1 42.9
 83 13.9 9.2 17.0



#21
 2-Butanone
 Concen: 47.475 ug/L
 RT: 4.28 min Scan# 966
 Delta R.T. -0.01 min
 Lab File: VU027803.D
 Acq: 24 Oct 2018 22:36

Tgt Ion: 43 Resp: 54169
 Ion Ratio Lower Upper
 43 100
 72 19.9 10.5 31.6



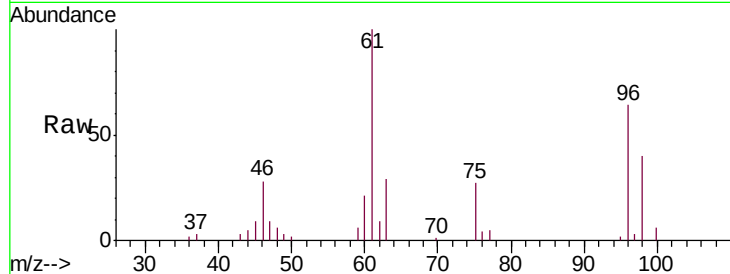


#22

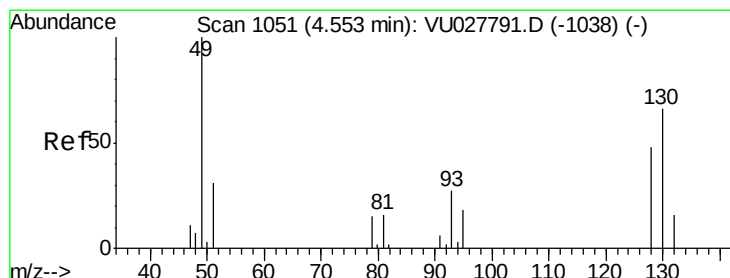
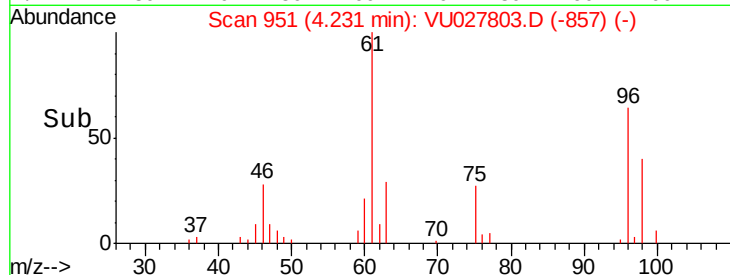
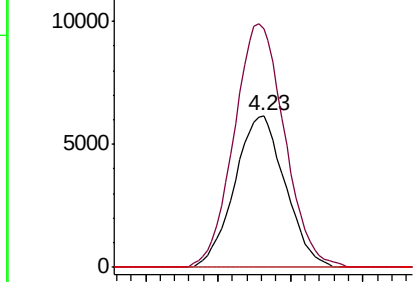
cis-1,2-Dichloroethene
Concen: 4.613 ug/L
RT: 4.23 min Scan# 951
Delta R.T. 0.00 min
Lab File: VU027803.D
Acq: 24 Oct 2018 22:36

Instrument :
MSVOA_U
ClientSampleId :
VSTD00503

Tgt Ion: 96 Resp: 14897
Ion Ratio Lower Upper
96 100
61 157.4 107.2 199.0
68 0.0 0.0 0.0



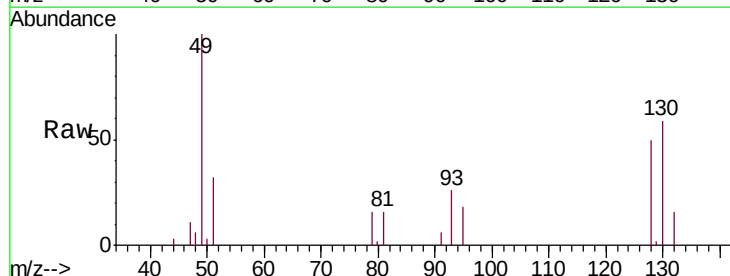
Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 68.15 (67.85 to 68.85): VU0



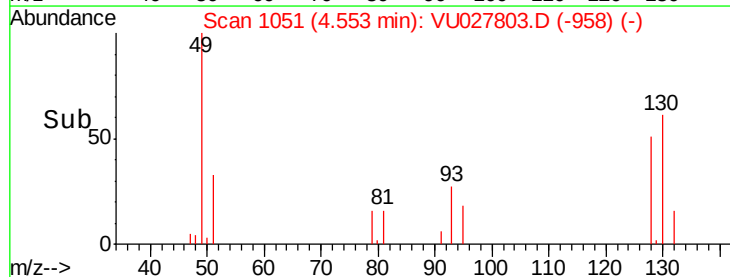
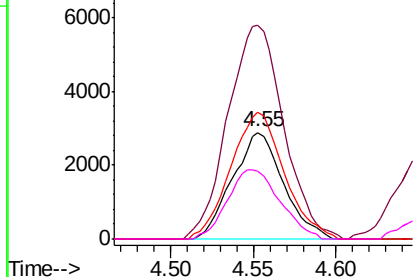
#23

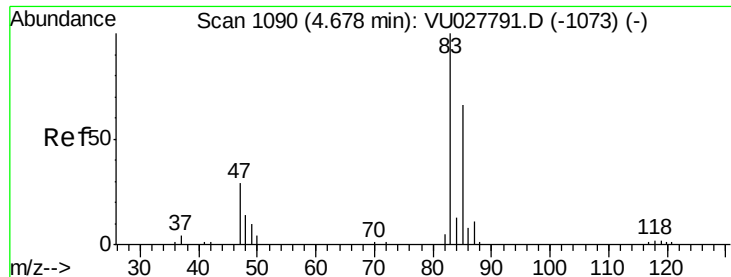
Bromochloromethane
Concen: 4.716 ug/L
RT: 4.55 min Scan# 1051
Delta R.T. 0.00 min
Lab File: VU027803.D
Acq: 24 Oct 2018 22:36

Tgt Ion: 128 Resp: 6174
Ion Ratio Lower Upper
128 100
49 200.0 142.8 265.2
130 119.0 86.0 159.8
51 63.7 52.6 79.0



Abundance Ion 127.90 (127.60 to 128.60): V
Ion 49.10 (48.80 to 49.80): VU0
Ion 129.95 (129.65 to 130.65): V
Ion 51.05 (50.75 to 51.75): VU0

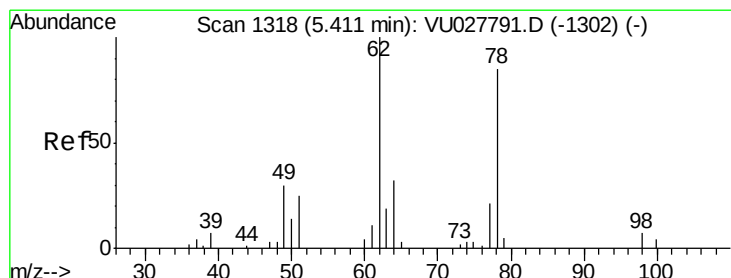
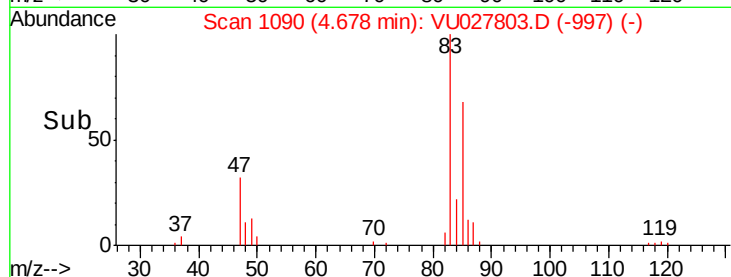
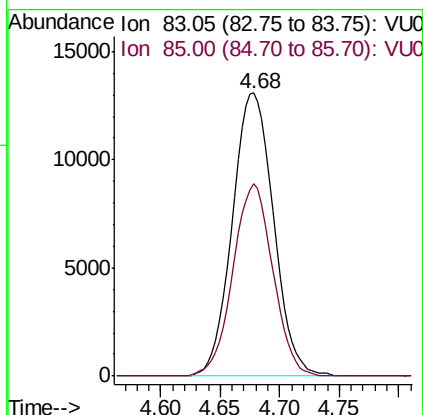
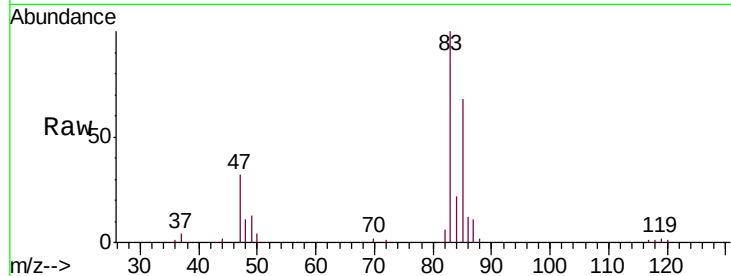




#25
Chloroform
Concen: 5.192 ug/L
RT: 4.68 min Scan# 1090
Delta R.T. 0.00 min
Lab File: VU027803.D
Acq: 24 Oct 2018 22:36

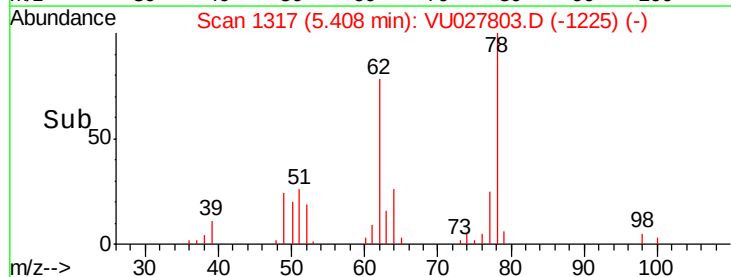
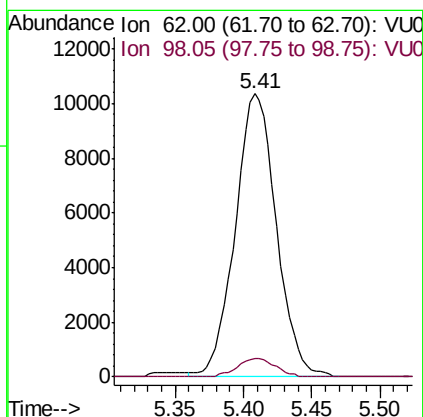
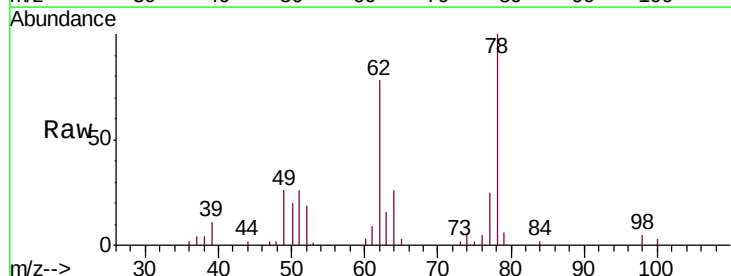
Instrument :
MSVOA_U
ClientSampled :
VSTD00503

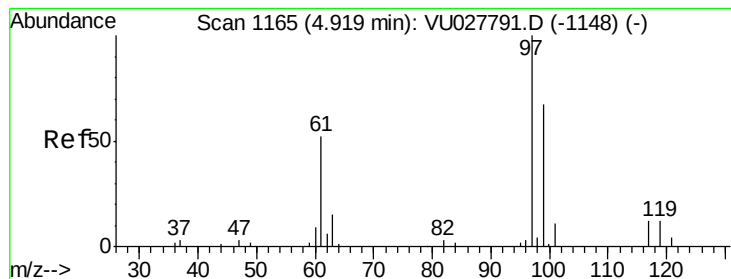
Tgt Ion: 83 Resp: 31424
Ion Ratio Lower Upper
83 100
85 67.8 45.8 85.2



#27
1,2-Dichloroethane
Concen: 4.860 ug/L
RT: 5.41 min Scan# 1317
Delta R.T. -0.00 min
Lab File: VU027803.D
Acq: 24 Oct 2018 22:36

Tgt Ion: 62 Resp: 21728
Ion Ratio Lower Upper
62 100
98 6.3 5.7 8.5





#29

1,1,1-Trichloroethane

Concen: 5.034 ug/L

RT: 4.92 min Scan# 1164

Delta R.T. -0.00 min

Lab File: VU027803.D

Acq: 24 Oct 2018 22:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD00503

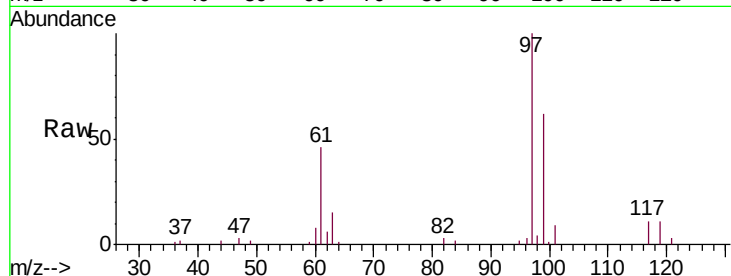
Tgt Ion: 97 Resp: 27158

Ion Ratio Lower Upper

97 100

99 60.6 51.3 76.9

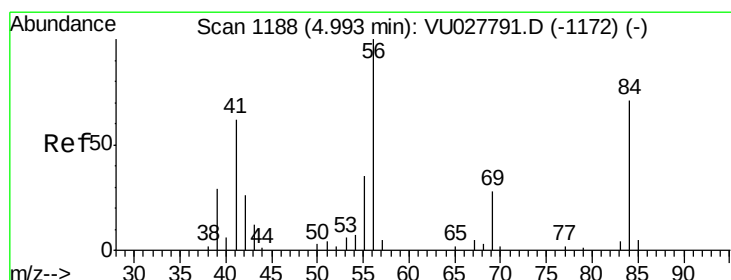
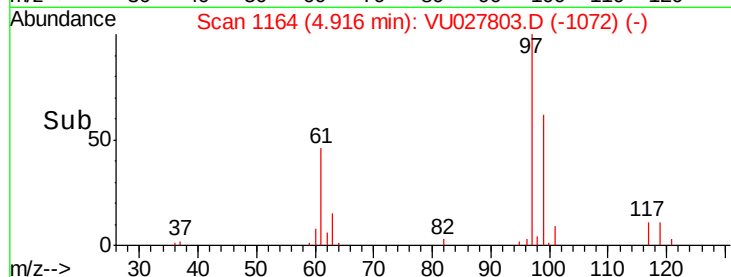
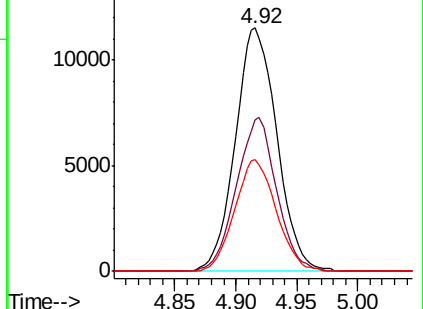
61 45.7 36.7 55.1



Abundance Ion 96.95 (96.65 to 97.65): VU027791.D (-1148) (-)

Ion 99.05 (98.75 to 99.75): VU027791.D (-1148) (-)

Ion 61.05 (60.75 to 61.75): VU027791.D (-1148) (-)



#30

Cyclohexane

Concen: 4.726 ug/L

RT: 4.99 min Scan# 1188

Delta R.T. 0.00 min

Lab File: VU027803.D

Acq: 24 Oct 2018 22:36

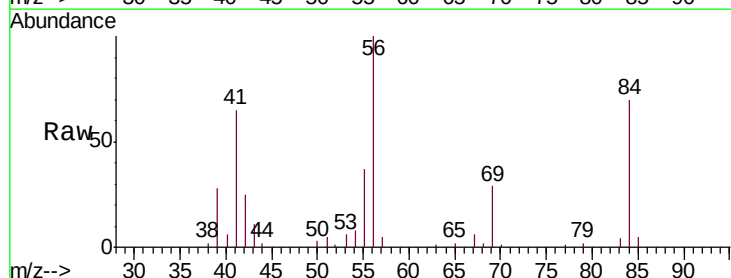
Tgt Ion: 56 Resp: 28559

Ion Ratio Lower Upper

56 100

69 28.1 22.2 33.4

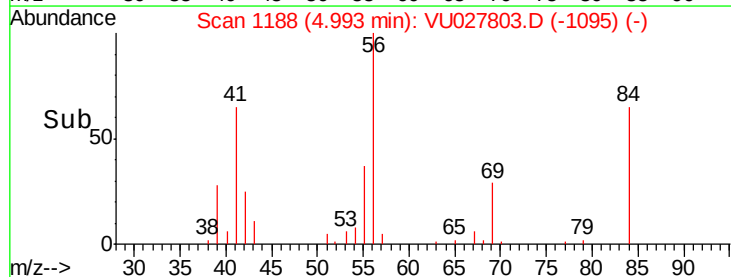
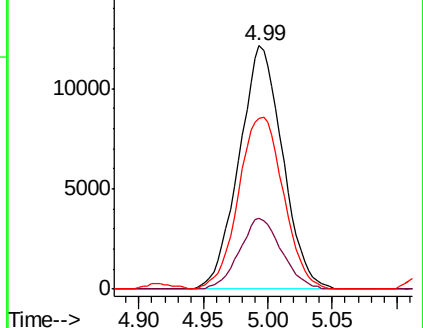
84 72.7 58.6 88.0

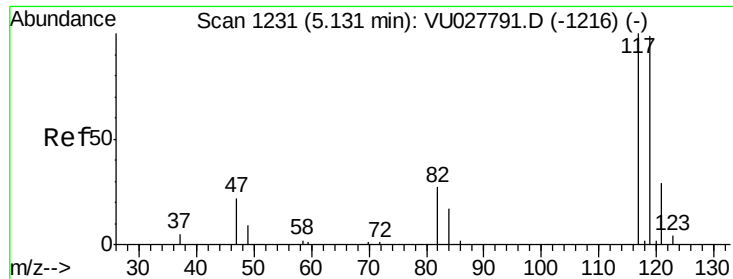


Abundance Ion 56.10 (55.80 to 56.80): VU027791.D (-1172) (-)

Ion 69.15 (68.85 to 69.85): VU027791.D (-1172) (-)

Ion 84.15 (83.85 to 84.85): VU027791.D (-1172) (-)





#31

Carbon tetrachloride

Concen: 4.875 ug/L

RT: 5.13 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VU027803.D

Acq: 24 Oct 2018 22:36

Instrument :

MSVOA_U

ClientSampleId :

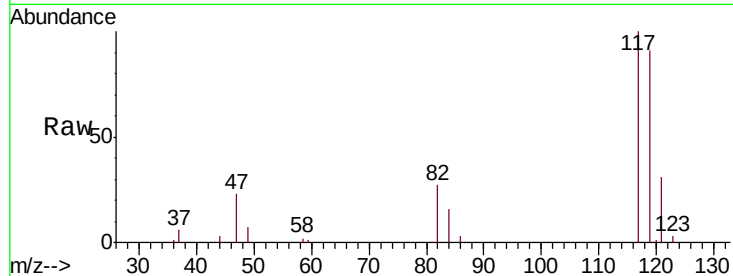
VSTD00503

Tgt Ion:117 Resp: 22565

Ion Ratio Lower Upper

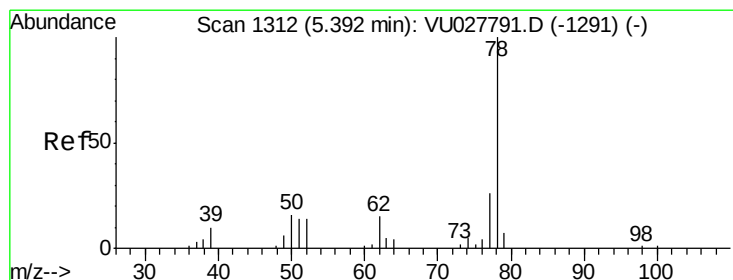
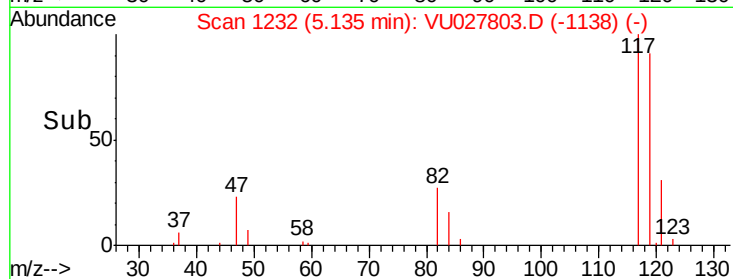
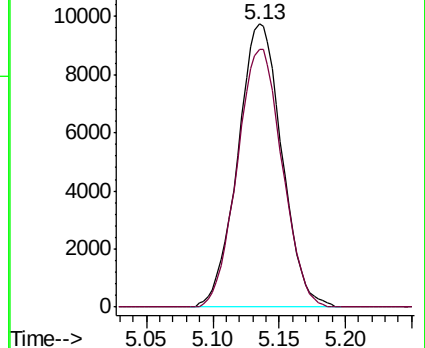
117 100

119 92.6 77.0 115.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 4.910 ug/L

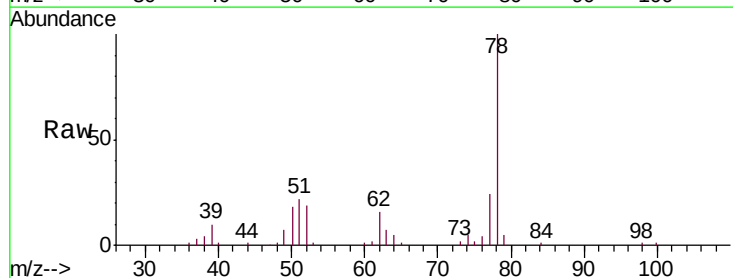
RT: 5.39 min Scan# 1312

Delta R.T. 0.00 min

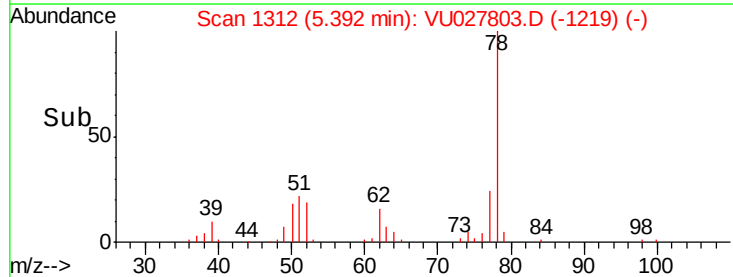
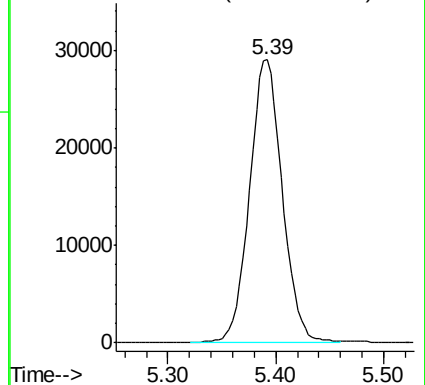
Lab File: VU027803.D

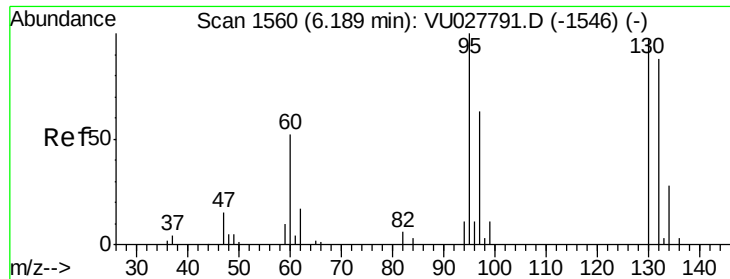
Acq: 24 Oct 2018 22:36

Tgt Ion: 78 Resp: 61193



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 4.916 ug/L

RT: 6.19 min Scan# 1559

Delta R.T. -0.00 min

Lab File: VU027803.D

Acq: 24 Oct 2018 22:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD00503

Tgt Ion: 95 Resp: 15875

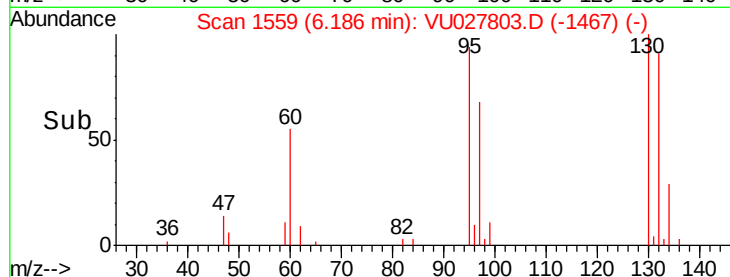
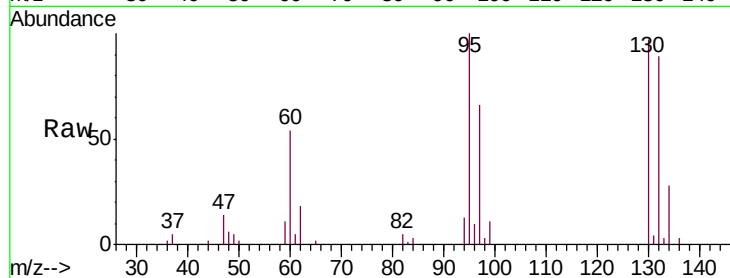
Ion Ratio Lower Upper

95 100

97 66.0 46.4 86.2

132 88.8 62.0 115.2

130 97.4 59.5 110.5

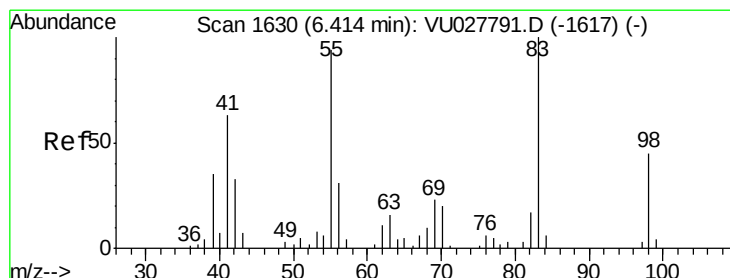
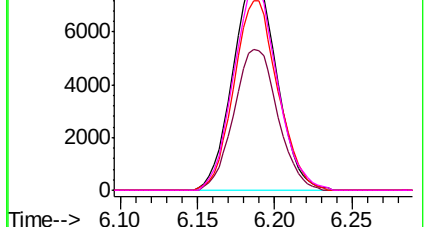


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 4.817 ug/L

RT: 6.41 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VU027803.D

Acq: 24 Oct 2018 22:36

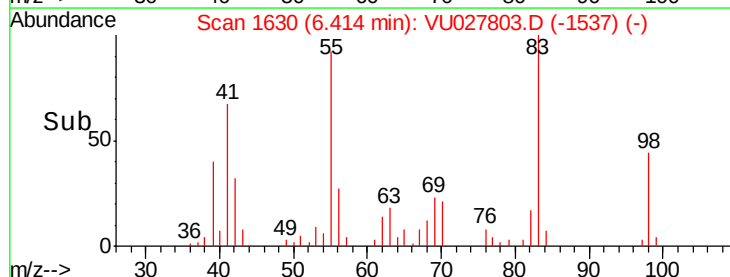
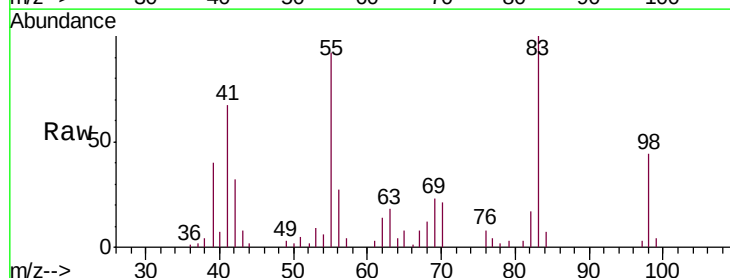
Tgt Ion: 83 Resp: 25991

Ion Ratio Lower Upper

83 100

55 89.6 71.5 107.3

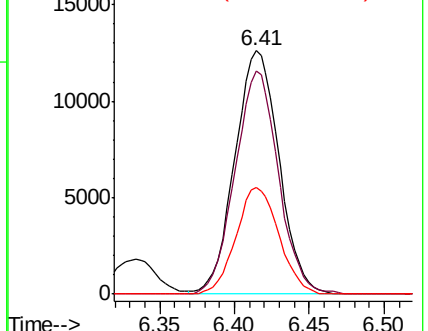
98 42.4 35.4 53.0

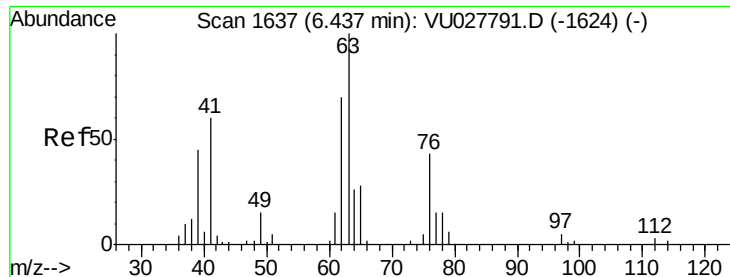


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

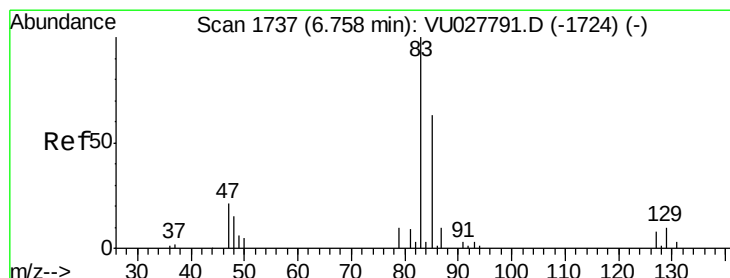
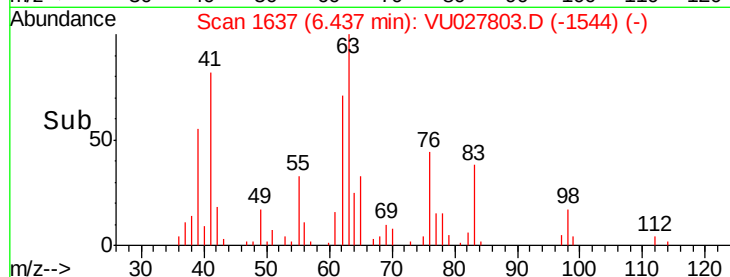
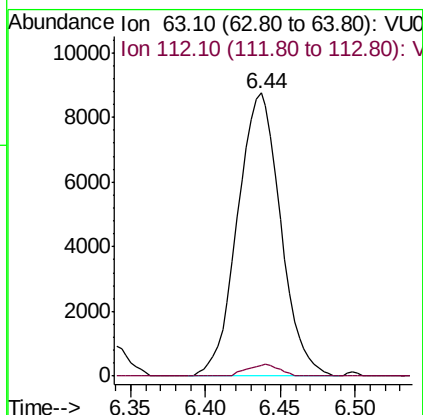
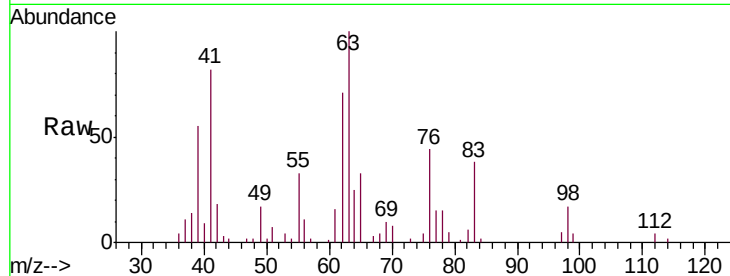




#37
 1,2-Dichloropropane
 Concen: 4.790 ug/L
 RT: 6.44 min Scan# 1637
 Delta R.T. 0.00 min
 Lab File: VU027803.D
 Acq: 24 Oct 2018 22:36

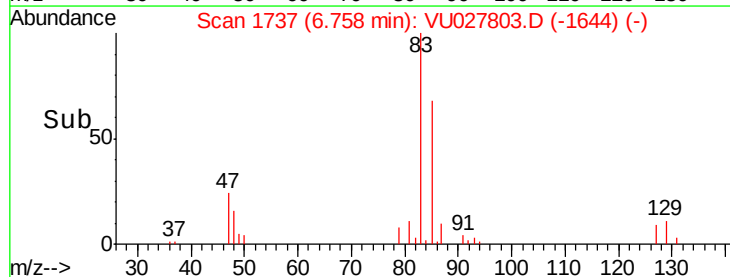
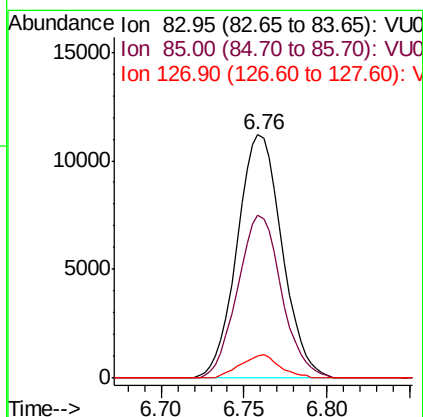
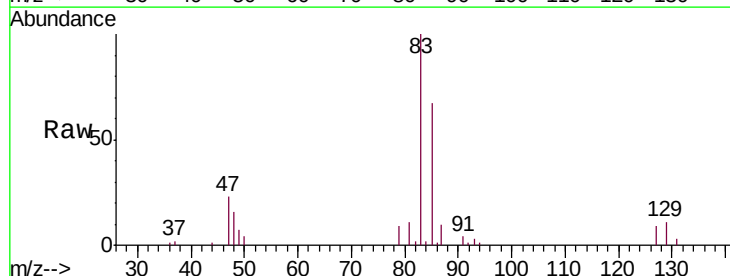
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00503

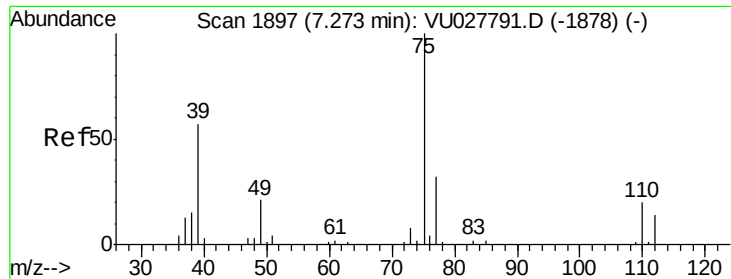
Tgt Ion: 63 Resp: 17528
 Ion Ratio Lower Upper
 63 100
 112 3.1 2.7 4.1



#38
 Bromodichloromethane
 Concen: 4.826 ug/L
 RT: 6.76 min Scan# 1737
 Delta R.T. 0.00 min
 Lab File: VU027803.D
 Acq: 24 Oct 2018 22:36

Tgt Ion: 83 Resp: 21088
 Ion Ratio Lower Upper
 83 100
 85 66.9 43.3 80.5
 127 9.1 7.2 10.8

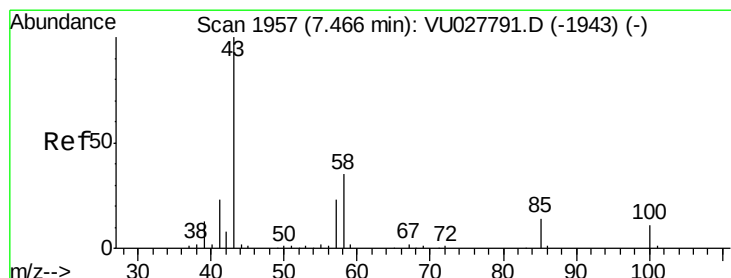
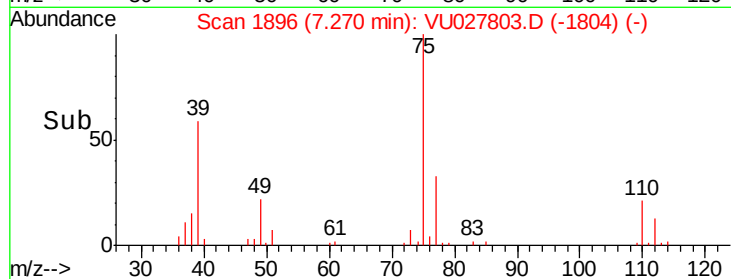
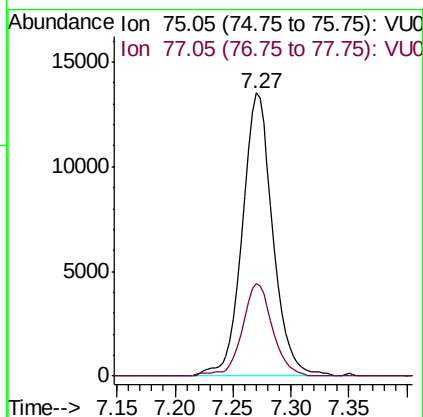
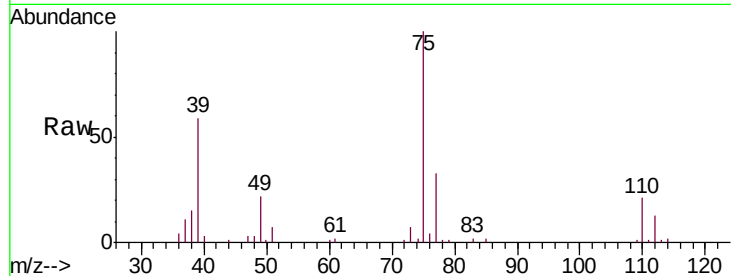




#39
 cis-1,3-Dichloropropene
 Concen: 4.723 ug/L
 RT: 7.27 min Scan# 1896
 Delta R.T. -0.00 min
 Lab File: VU027803.D
 Acq: 24 Oct 2018 22:36

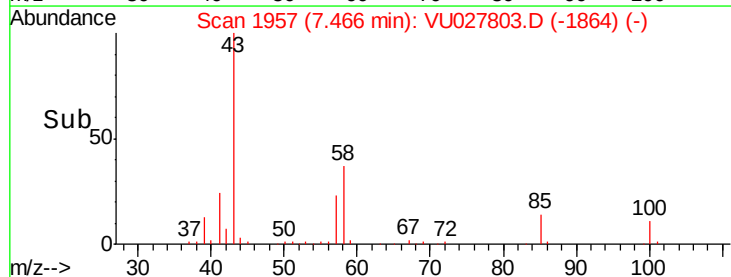
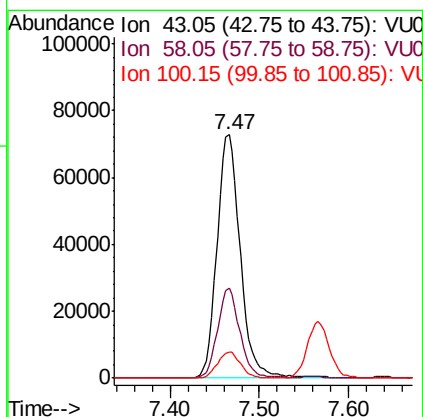
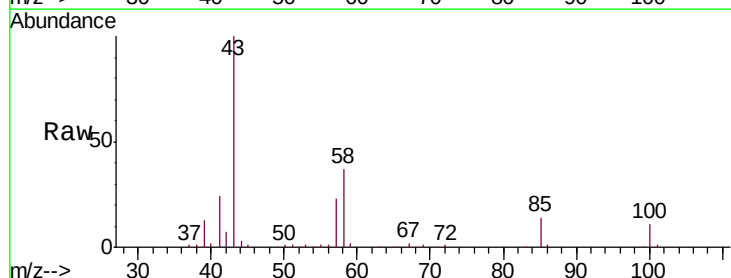
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00503

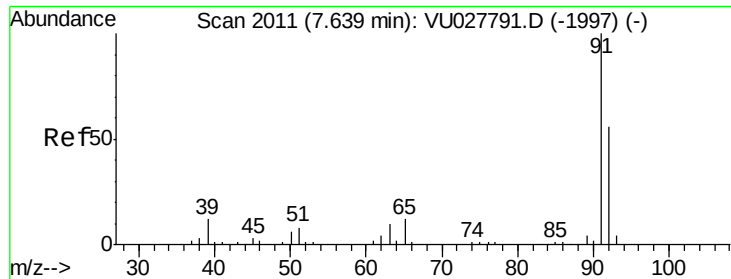
Tgt Ion: 75 Resp: 24758
 Ion Ratio Lower Upper
 75 100
 77 32.9 22.5 41.7



#40
 4-Methyl-2-pentanone
 Concen: 48.218 ug/L
 RT: 7.47 min Scan# 1957
 Delta R.T. 0.00 min
 Lab File: VU027803.D
 Acq: 24 Oct 2018 22:36

Tgt Ion: 43 Resp: 131915
 Ion Ratio Lower Upper
 43 100
 58 35.4 28.1 42.1
 100 10.8 8.7 13.1





#42

Toluene

Concen: 4.867 ug/L

RT: 7.64 min Scan# 2010

Delta R.T. -0.00 min

Lab File: VU027803.D

Acq: 24 Oct 2018 22:36

Instrument :

MSVOA_U

ClientSampleId :

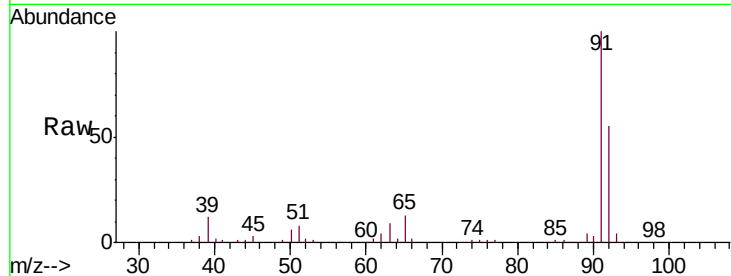
VSTD00503

Tgt Ion: 91 Resp: 65292

Ion Ratio Lower Upper

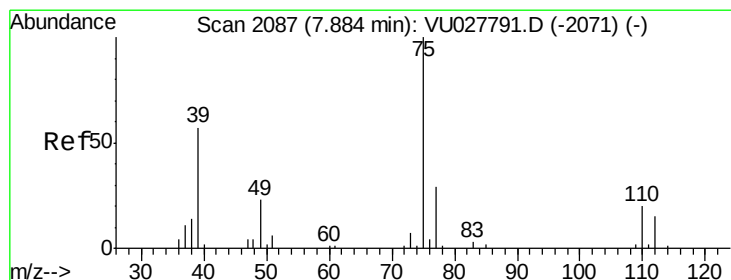
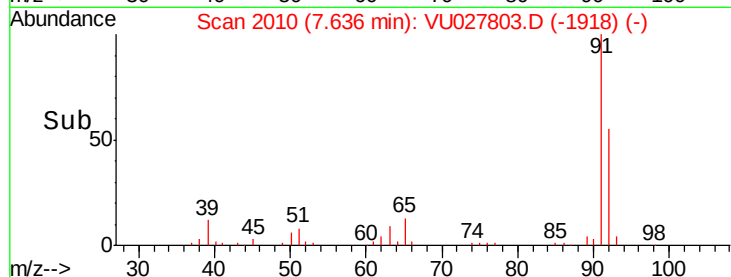
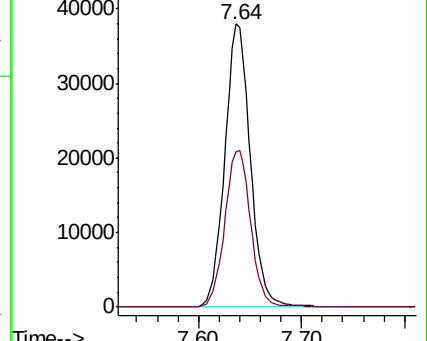
91 100

92 55.0 38.6 71.8



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 92.15 (91.85 to 92.85): VU0



#44

trans-1,3-Dichloropropene

Concen: 4.802 ug/L

RT: 7.88 min Scan# 2086

Delta R.T. -0.00 min

Lab File: VU027803.D

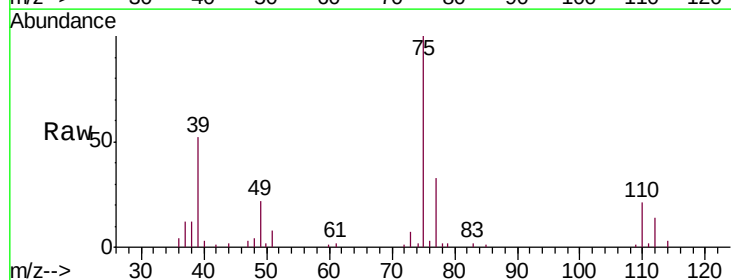
Acq: 24 Oct 2018 22:36

Tgt Ion: 75 Resp: 21198

Ion Ratio Lower Upper

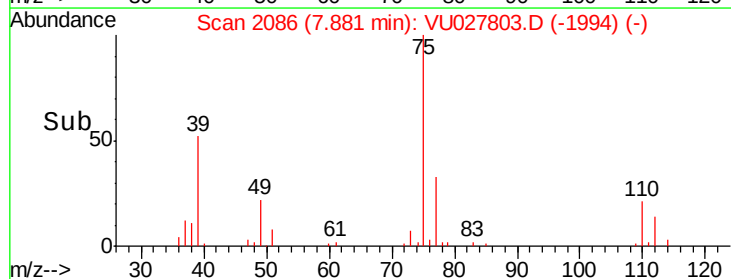
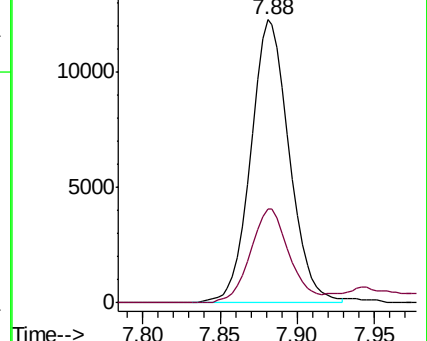
75 100

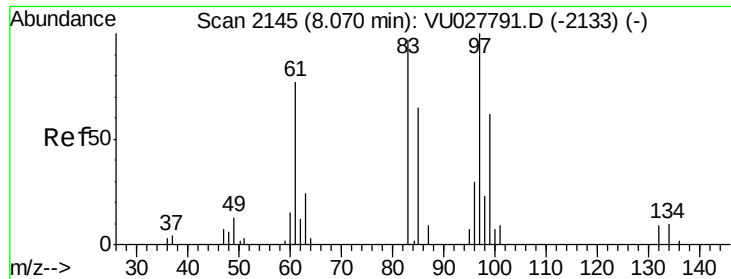
77 33.3 23.5 43.7



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0

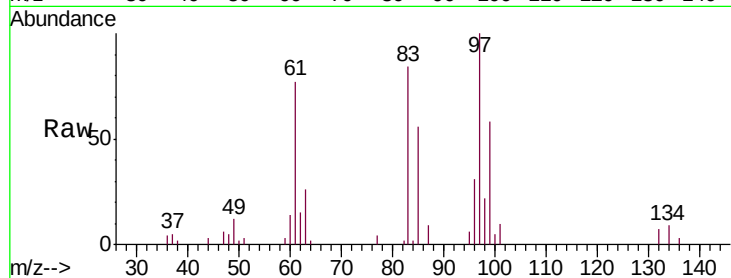




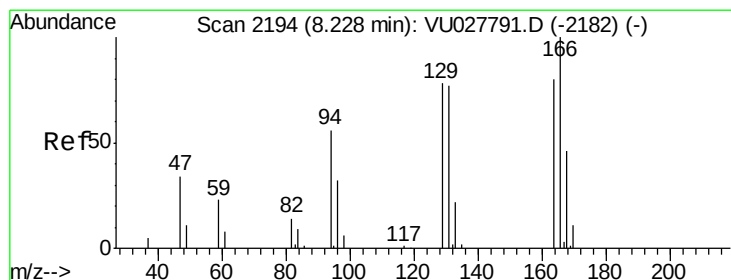
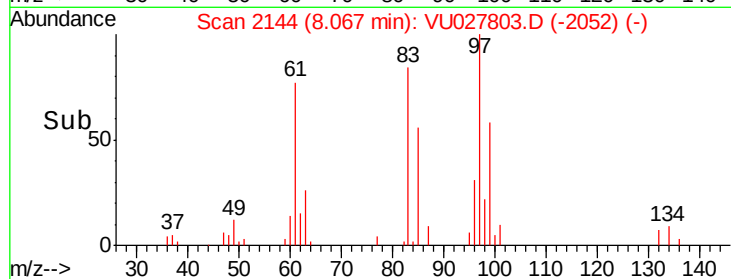
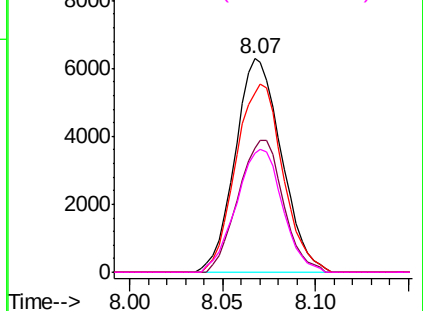
#45
 1,1,2-Trichloroethane
 Concen: 4.935 ug/L
 RT: 8.07 min Scan# 2144
 Delta R.T. -0.00 min
 Lab File: VU027803.D
 Acq: 24 Oct 2018 22:36

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00503

Tgt Ion:	97	Resp:	10899
Ion	Ratio	Lower	Upper
97	100		
99	58.0	42.8	79.6
83	84.1	62.9	116.9
85	56.0	40.8	75.8

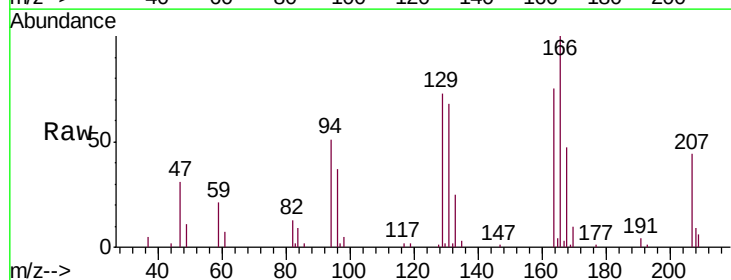


Abundance Ion 96.95 (96.65 to 97.65): VU027791.D (-2133) (-)
 Ion 99.05 (98.75 to 99.75): VU027791.D (-2133) (-)
 Ion 82.95 (82.65 to 83.65): VU027791.D (-2133) (-)
 Ion 85.00 (84.70 to 85.70): VU027791.D (-2133) (-)

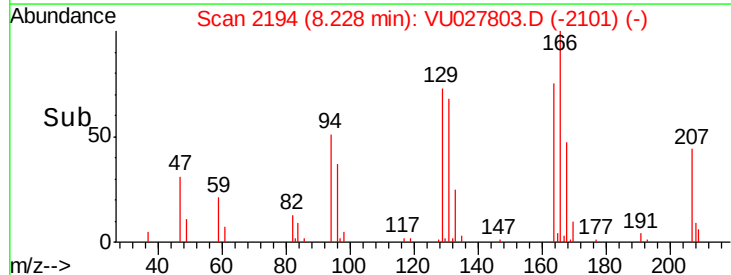
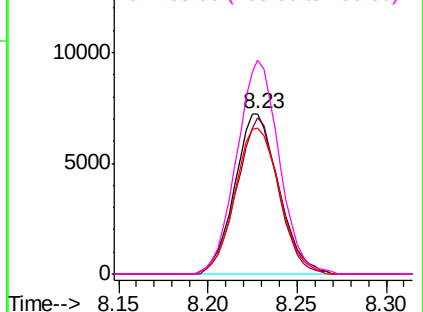


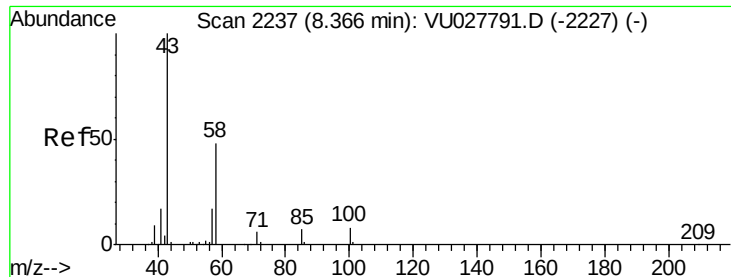
#47
 Tetrachloroethene
 Concen: 4.731 ug/L
 RT: 8.23 min Scan# 2194
 Delta R.T. 0.00 min
 Lab File: VU027803.D
 Acq: 24 Oct 2018 22:36

Tgt Ion:	164	Resp:	12410
Ion	Ratio	Lower	Upper
164	100		
129	97.6	65.6	121.8
131	91.3	65.0	120.8
166	133.3	88.3	164.1



Abundance Ion 163.90 (163.60 to 164.60): VU027791.D (-2182) (-)
 Ion 128.95 (128.65 to 129.65): VU027791.D (-2182) (-)
 Ion 130.95 (130.65 to 131.65): VU027791.D (-2182) (-)
 Ion 165.90 (165.60 to 166.60): VU027791.D (-2182) (-)

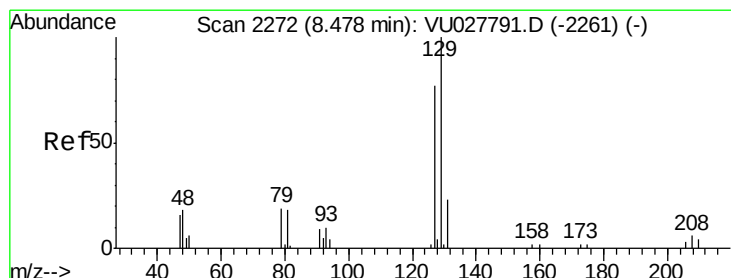
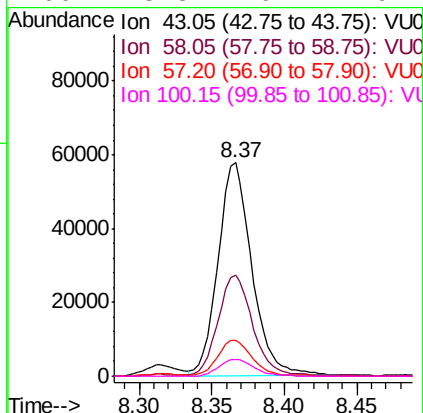
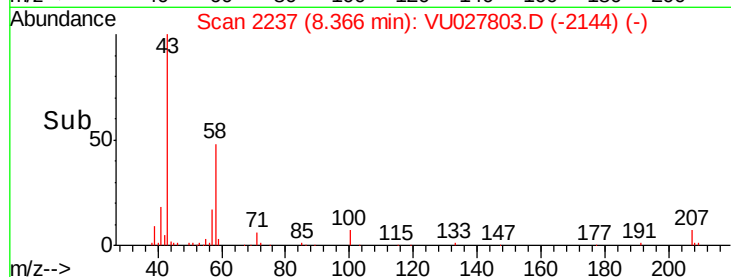
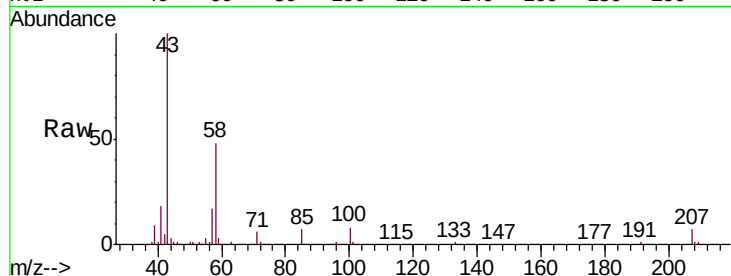




#48
2-Hexanone
Concen: 47.934 ug/L
RT: 8.37 min Scan# 2237
Delta R.T. 0.00 min
Lab File: VU027803.D
Acq: 24 Oct 2018 22:36

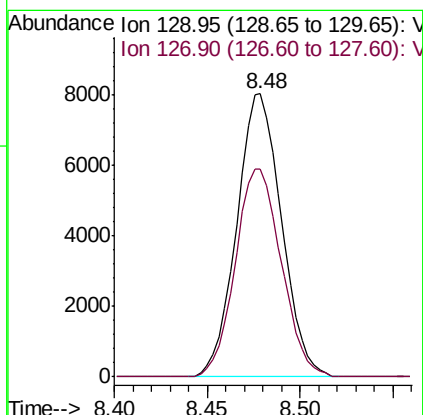
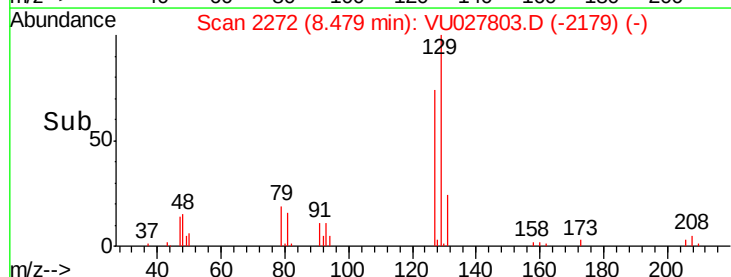
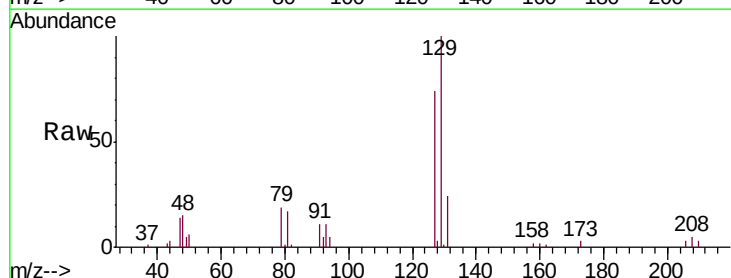
Instrument :
MSVOA_U
ClientSampleId :
VSTD00503

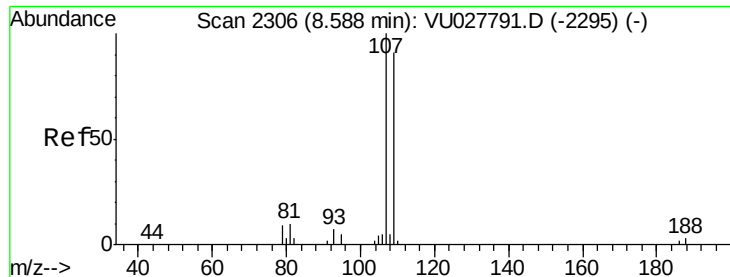
Tgt Ion: 43 Resp: 93181
Ion Ratio Lower Upper
43 100
58 48.2 39.4 59.0
57 17.5 13.8 20.8
100 8.3 6.7 10.1



#49
Dibromochloromethane
Concen: 4.787 ug/L
RT: 8.48 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VU027803.D
Acq: 24 Oct 2018 22:36

Tgt Ion: 129 Resp: 13473
Ion Ratio Lower Upper
129 100
127 73.7 55.2 102.4

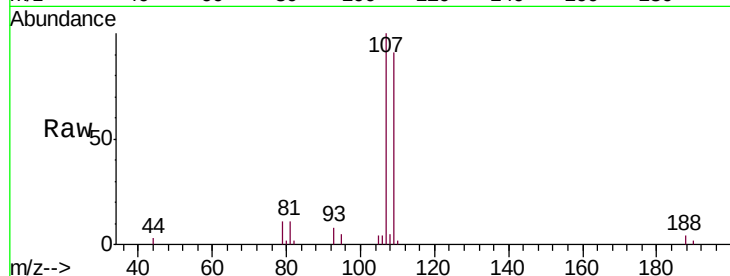




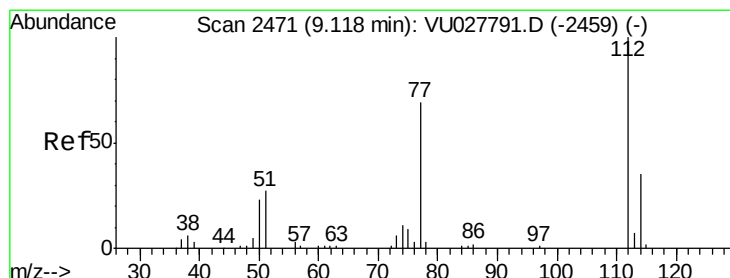
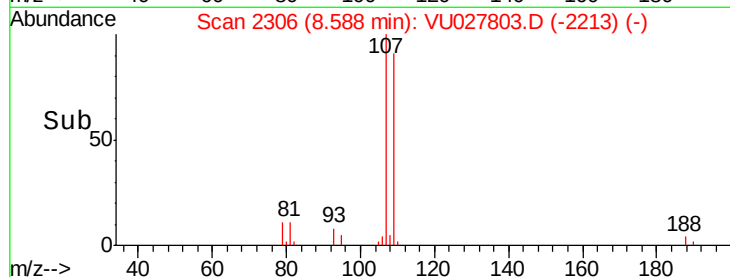
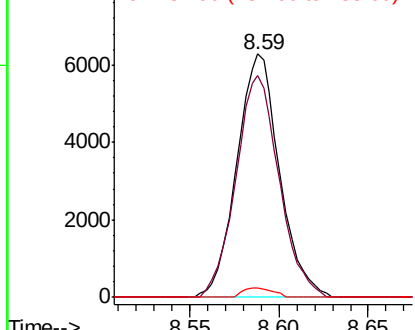
#50
1,2-Dibromoethane
Concen: 4.891 ug/L
RT: 8.59 min Scan# 2306
Delta R.T. 0.00 min
Lab File: VU027803.D
Acq: 24 Oct 2018 22:36

Instrument :
MSVOA_U
ClientSampleId :
VSTD00503

Tgt Ion:107 Resp: 10500
Ion Ratio Lower Upper
107 100
109 90.9 66.3 123.1
188 3.9 2.6 3.8#

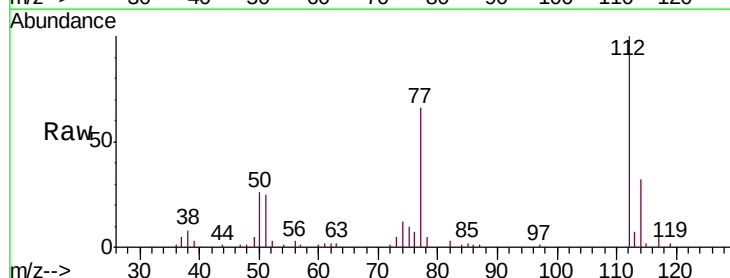


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

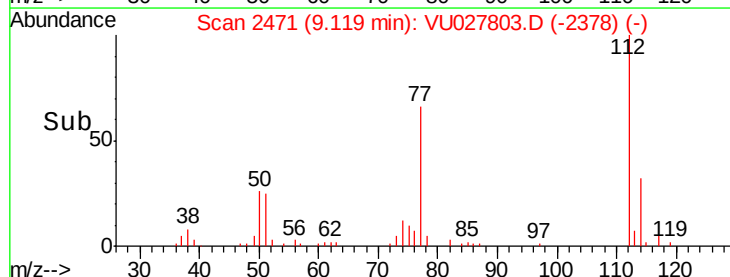
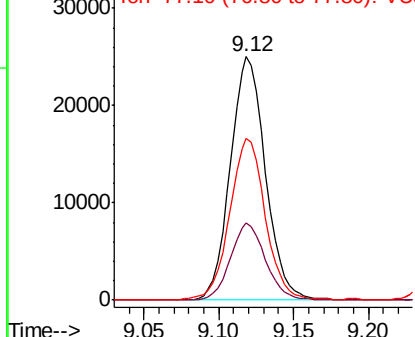


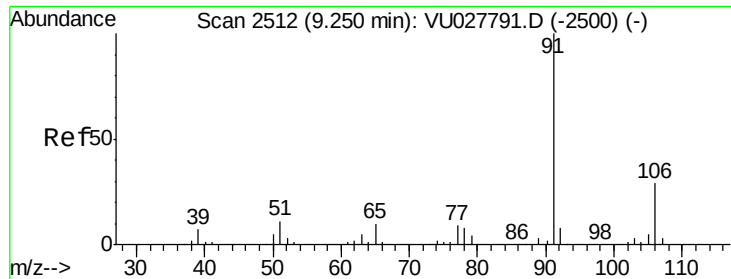
#51
Chlorobenzene
Concen: 4.940 ug/L
RT: 9.12 min Scan# 2471
Delta R.T. 0.00 min
Lab File: VU027803.D
Acq: 24 Oct 2018 22:36

Tgt Ion:112 Resp: 40800
Ion Ratio Lower Upper
112 100
114 31.6 21.2 39.4
77 66.4 54.2 81.4



Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V





#52

Ethylbenzene

Concen: 4.913 ug/L

RT: 9.25 min Scan# 2512

Delta R.T. 0.00 min

Lab File: VU027803.D

Acq: 24 Oct 2018 22:36

Instrument :

MSVOA_U

ClientSampleId :

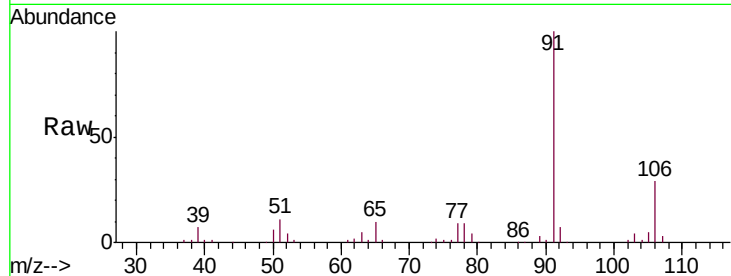
VSTD00503

Tgt Ion: 91 Resp: 76462

Ion Ratio Lower Upper

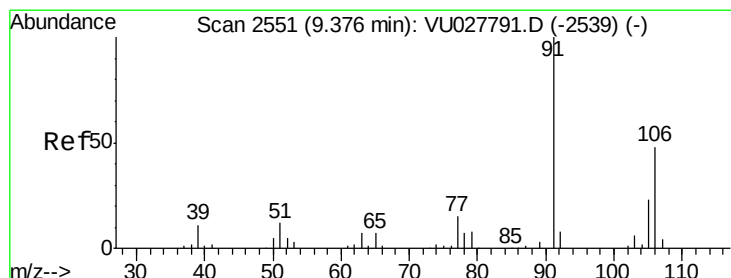
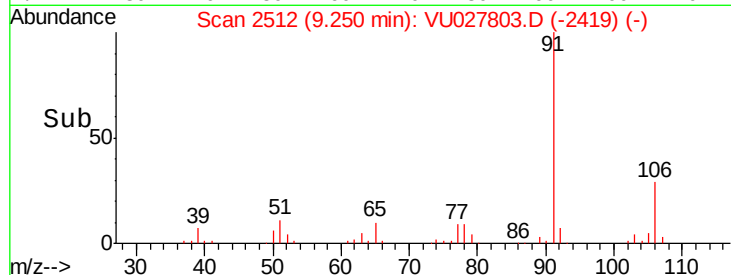
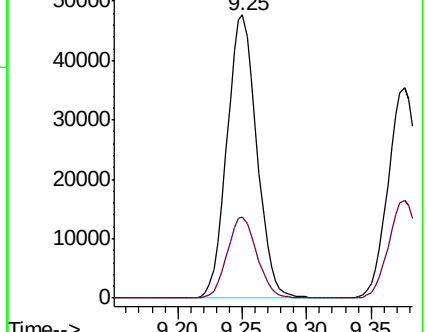
91 100

106 28.7 20.6 38.4



Abundance Ion 91.15 (90.85 to 91.85): VU027791.D (-2500) (-)

Ion 106.15 (105.85 to 106.85): VU027791.D (-2500) (-)



#53

m,p-xylene

Concen: 4.871 ug/L

RT: 9.38 min Scan# 2551

Delta R.T. 0.00 min

Lab File: VU027803.D

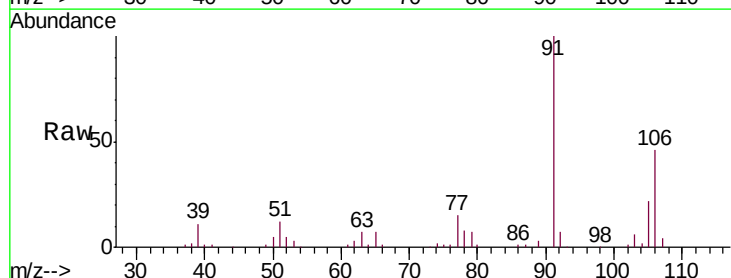
Acq: 24 Oct 2018 22:36

Tgt Ion: 106 Resp: 26851

Ion Ratio Lower Upper

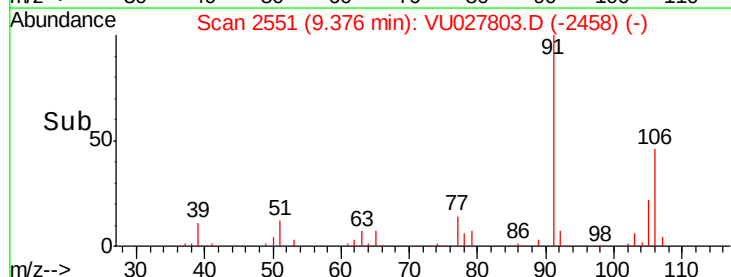
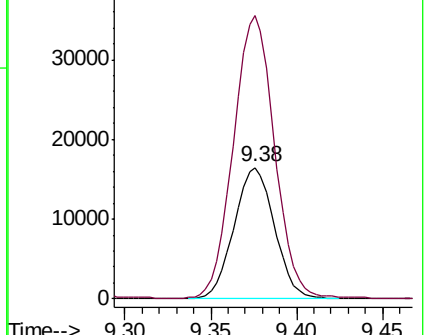
106 100

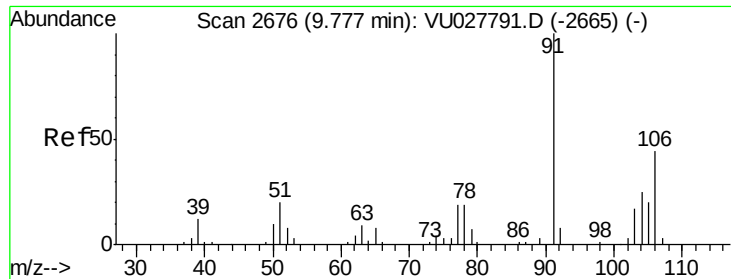
91 215.4 154.1 286.3



Abundance Ion 106.15 (105.85 to 106.85): VU027791.D (-2539) (-)

Ion 91.15 (90.85 to 91.85): VU027791.D (-2539) (-)

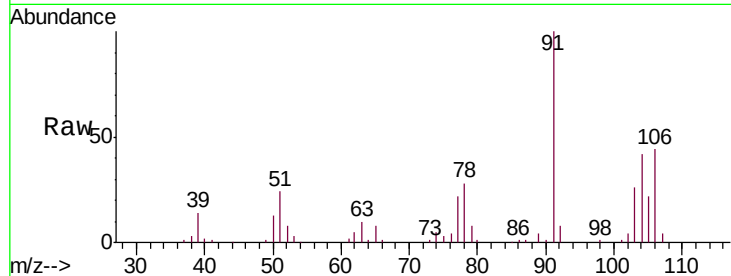




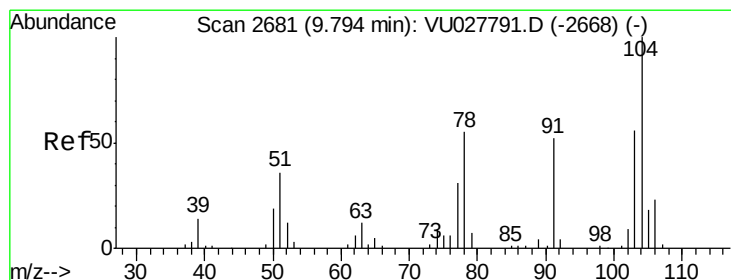
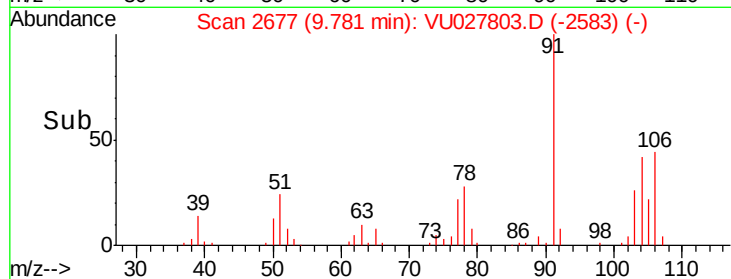
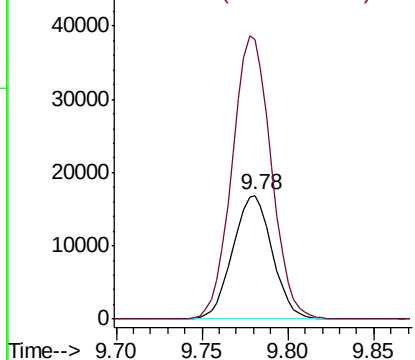
#54
o-xylene
Concen: 5.008 ug/L
RT: 9.78 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VU027803.D
Acq: 24 Oct 2018 22:36

Instrument :
MSVOA_U
ClientSampleId :
VSTD00503

Tgt Ion:106 Resp: 26974
Ion Ratio Lower Upper
106 100
91 226.9 161.3 299.7

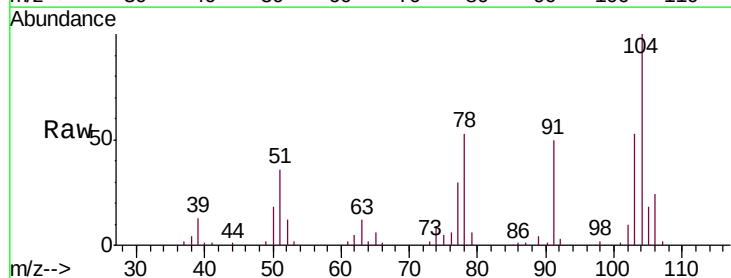


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

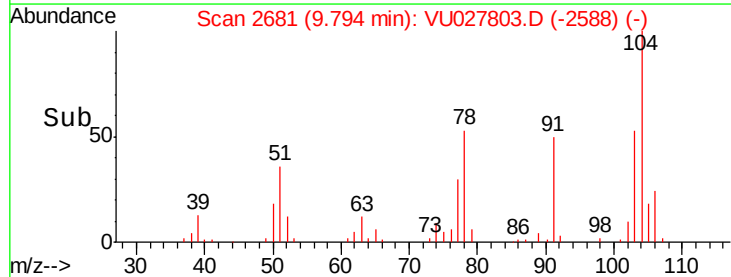
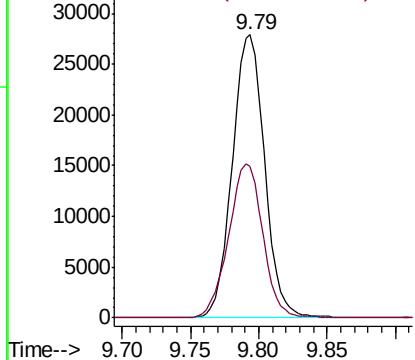


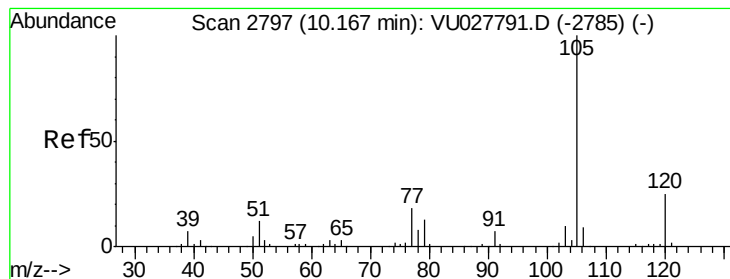
#55
Styrene
Concen: 5.031 ug/L
RT: 9.79 min Scan# 2681
Delta R.T. 0.00 min
Lab File: VU027803.D
Acq: 24 Oct 2018 22:36

Tgt Ion:104 Resp: 45899
Ion Ratio Lower Upper
104 100
78 53.4 36.3 67.3



Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 4.992 ug/L

RT: 10.17 min Scan# 2797

Delta R.T. 0.00 min

Lab File: VU027803.D

Acq: 24 Oct 2018 22:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD00503

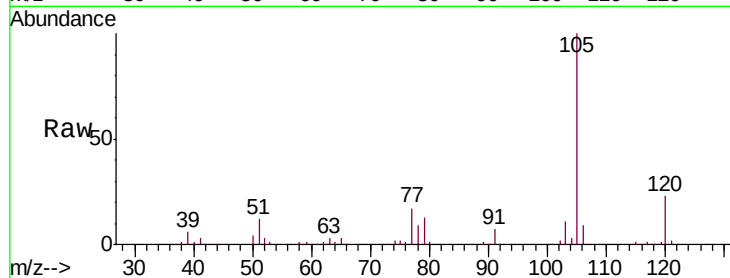
Tgt Ion: 105 Resp: 74454

Ion Ratio Lower Upper

105 100

120 24.2 19.9 29.9

77 17.5 13.7 20.5

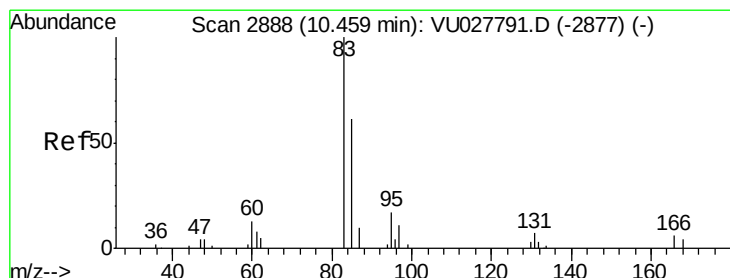
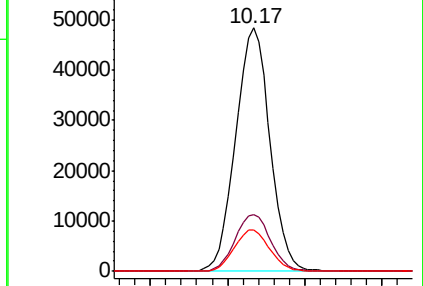
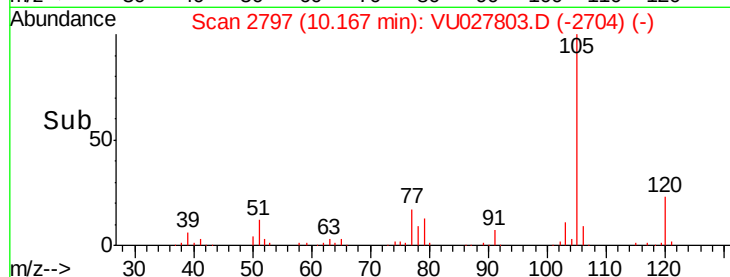


Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V

Time-->



#58

1,1,2,2-Tetrachloroethane

Concen: 5.025 ug/L

RT: 10.46 min Scan# 2887

Delta R.T. -0.00 min

Lab File: VU027803.D

Acq: 24 Oct 2018 22:36

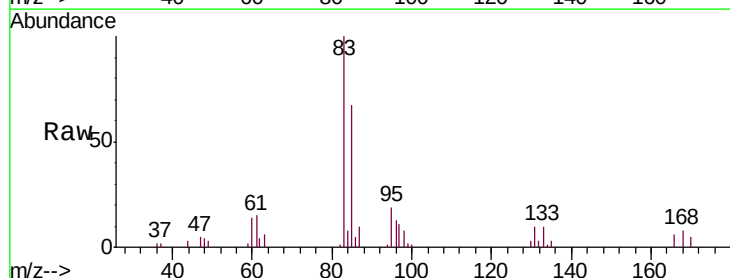
Tgt Ion: 83 Resp: 14598

Ion Ratio Lower Upper

83 100

85 66.6 45.5 84.5

131 9.9 8.8 13.2

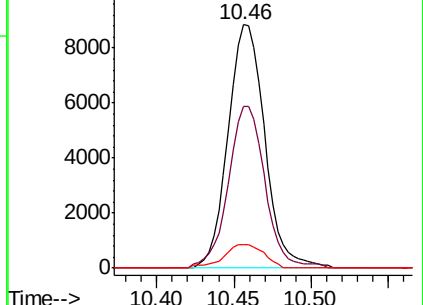
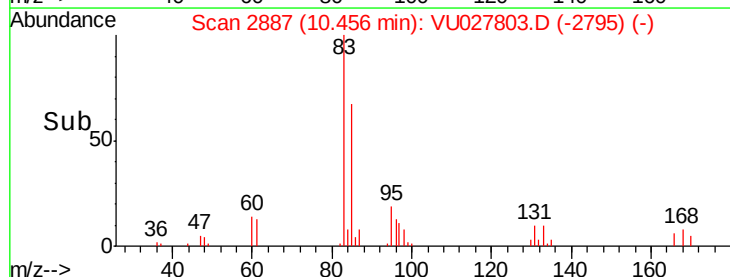


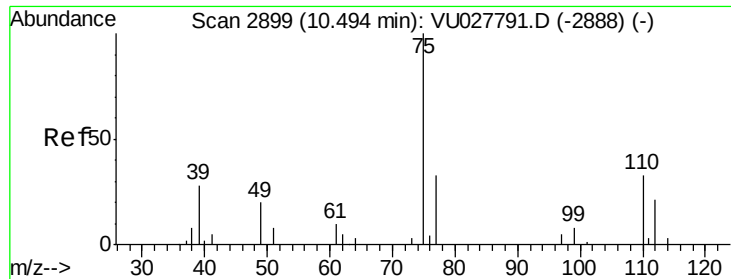
Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V

Time-->





#59

1,2,3-Trichloropropane

Concen: 4.652 ug/L

RT: 10.49 min Scan# 2899

Delta R.T. 0.00 min

Lab File: VU027803.D

Acq: 24 Oct 2018 22:36

Instrument :

MSVOA_U

ClientSampleId :

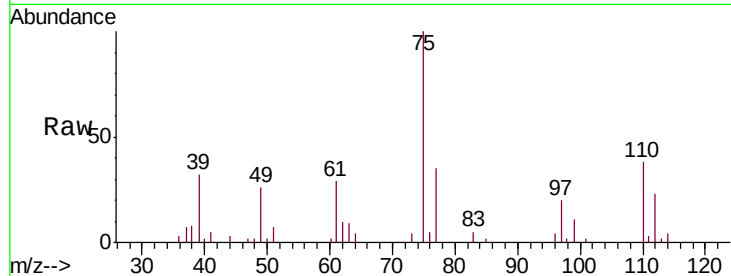
VSTD00503

Tgt Ion: 75 Resp: 10719

Ion Ratio Lower Upper

75 100

77 34.3 26.4 39.6



Abundance Ion 75.00 (74.70 to 75.70): VU027791.D (-2888) (-)

Ion 77.00 (76.70 to 77.70): VU027791.D (-2888) (-)

10.49

8000

6000

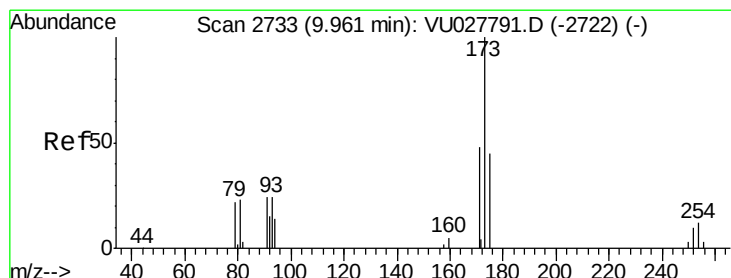
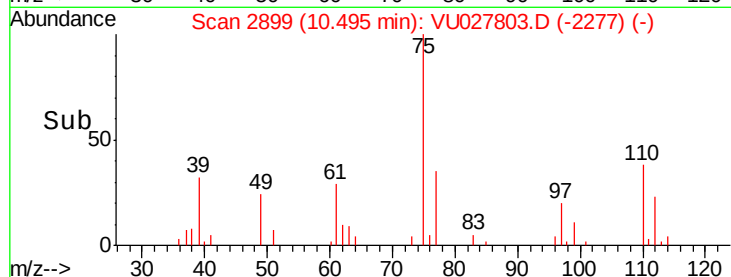
4000

2000

0

10.45 10.50 10.55

Time-->



#61

Bromoform

Concen: 4.623 ug/L

RT: 9.96 min Scan# 2732

Delta R.T. -0.00 min

Lab File: VU027803.D

Acq: 24 Oct 2018 22:36

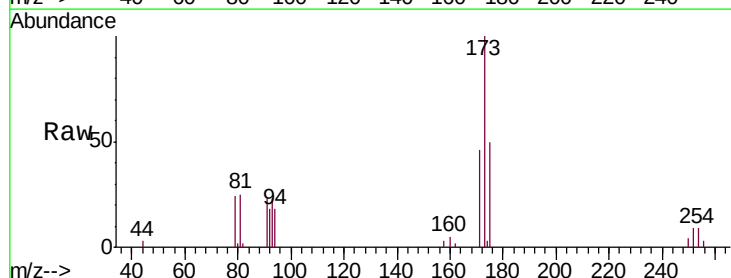
Tgt Ion: 173 Resp: 7607

Ion Ratio Lower Upper

173 100

175 47.5 37.7 56.5

254 8.9 7.2 10.8



Abundance Ion 172.90 (172.60 to 173.60): VU027791.D (-2722) (-)

Ion 174.90 (174.60 to 175.60): VU027791.D (-2722) (-)

Ion 253.75 (253.45 to 254.45): VU027791.D (-2722) (-)

9.96

6000

5000

4000

3000

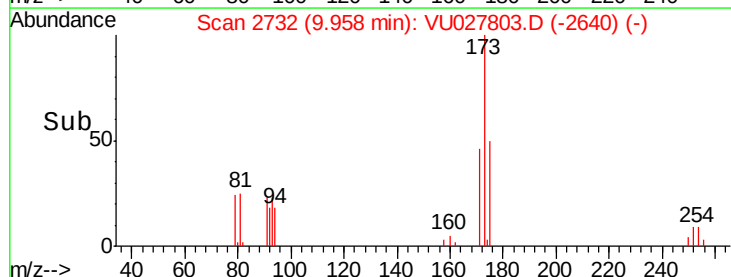
2000

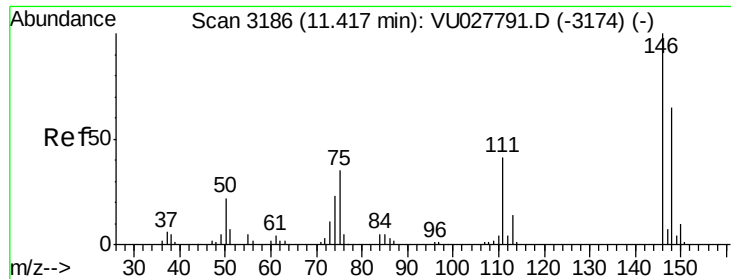
1000

0

9.90 9.95 10.00

Time-->

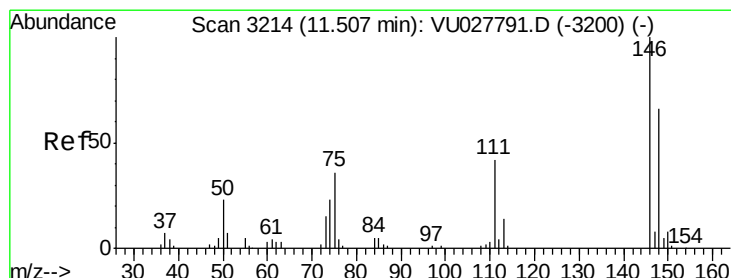
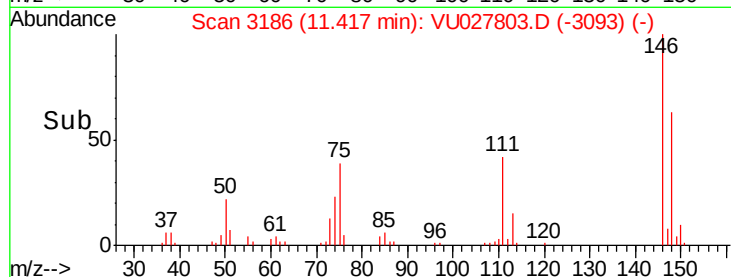
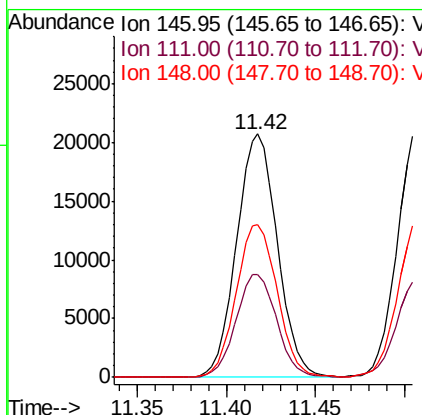
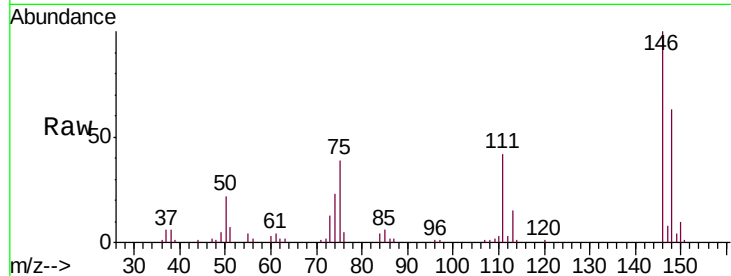




#62
 1,3-Dichlorobenzene
 Concen: 4.790 ug/L
 RT: 11.42 min Scan# 3186
 Delta R.T. 0.00 min
 Lab File: VU027803.D
 Acq: 24 Oct 2018 22:36

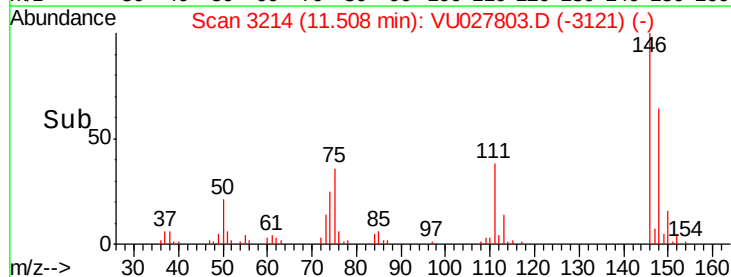
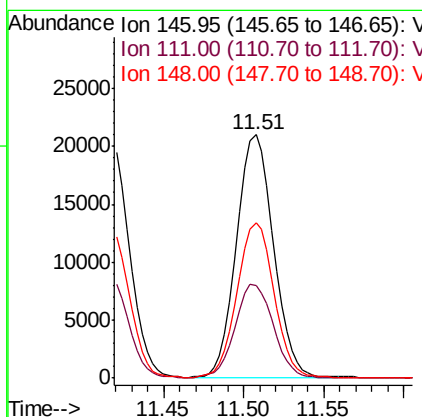
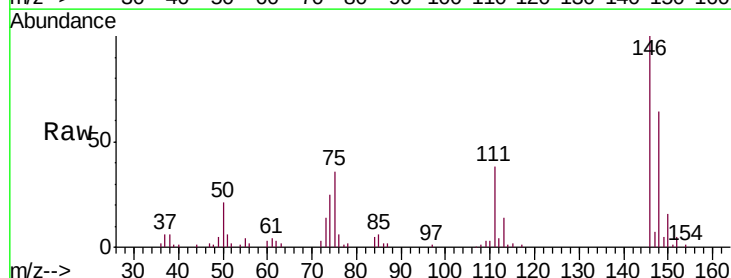
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00503

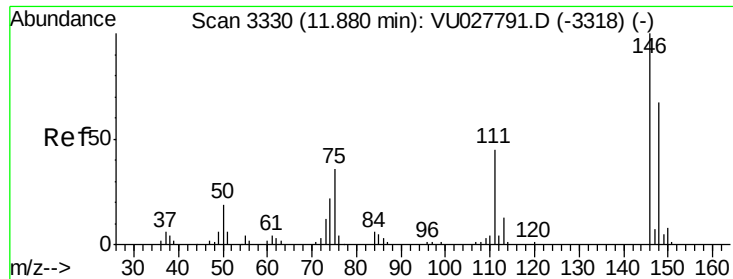
Tgt Ion:146 Resp: 32961
 Ion Ratio Lower Upper
 146 100
 111 42.4 28.6 53.0
 148 62.9 45.1 83.9



#63
 1,4-Dichlorobenzene
 Concen: 4.787 ug/L
 RT: 11.51 min Scan# 3214
 Delta R.T. 0.00 min
 Lab File: VU027803.D
 Acq: 24 Oct 2018 22:36

Tgt Ion:146 Resp: 33262
 Ion Ratio Lower Upper
 146 100
 111 38.2 27.6 51.4
 148 64.0 43.3 80.3

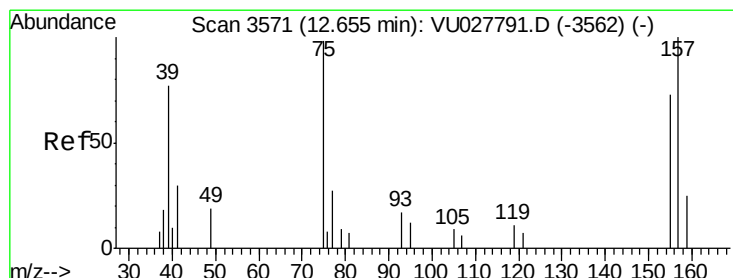
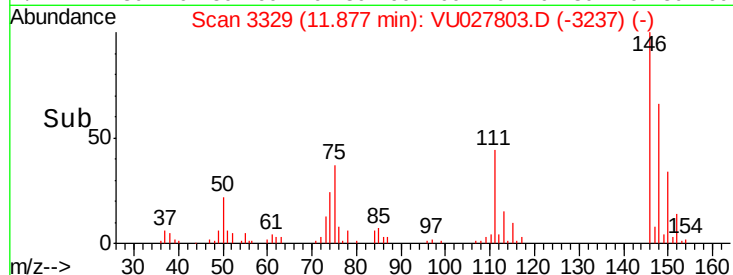
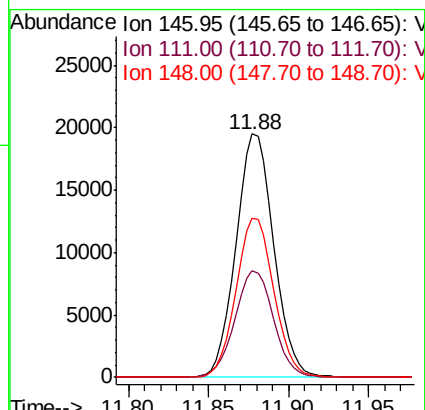
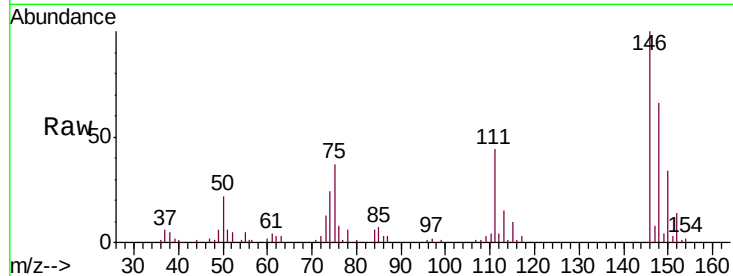




#65
 1,2-Dichlorobenzene
 Concen: 4.836 ug/L
 RT: 11.88 min Scan# 3329
 Delta R.T. -0.00 min
 Lab File: VU027803.D
 Acq: 24 Oct 2018 22:36

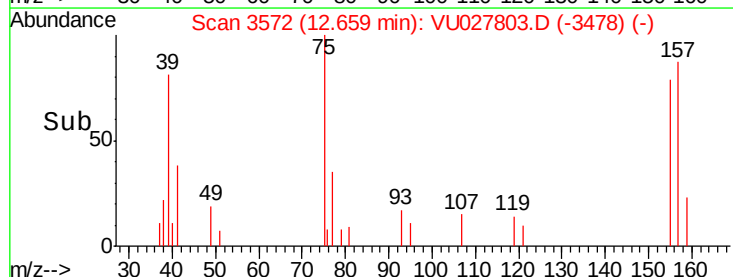
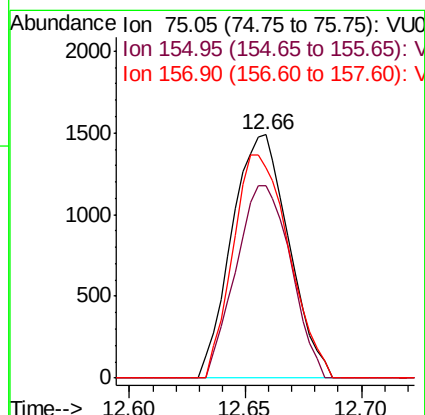
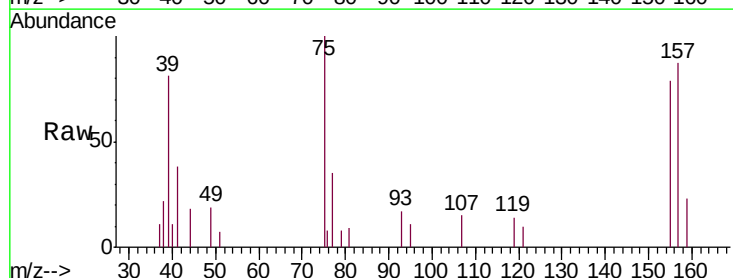
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00503

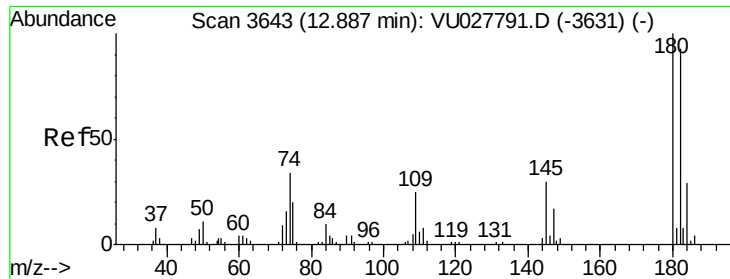
Tgt Ion: 146 Resp: 31291
 Ion Ratio Lower Upper
 146 100
 111 43.6 33.7 50.5
 148 65.5 50.8 76.2



#66
 1,2-Dibromo-3-chloropropane
 Concen: 4.929 ug/L
 RT: 12.66 min Scan# 3572
 Delta R.T. 0.00 min
 Lab File: VU027803.D
 Acq: 24 Oct 2018 22:36

Tgt Ion: 75 Resp: 2540
 Ion Ratio Lower Upper
 75 100
 155 78.9 46.2 69.2#
 157 86.5 68.9 103.3

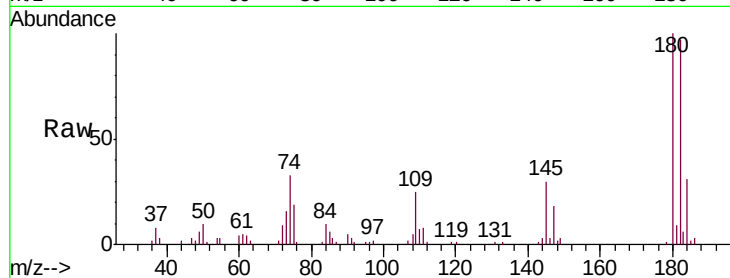




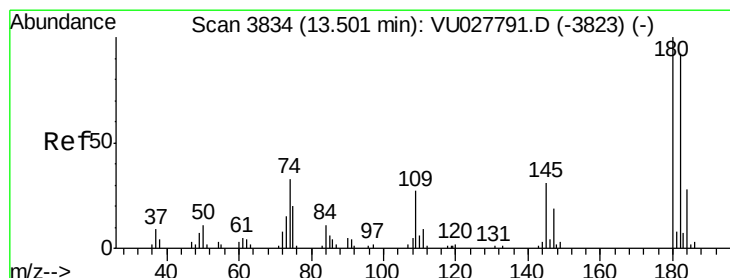
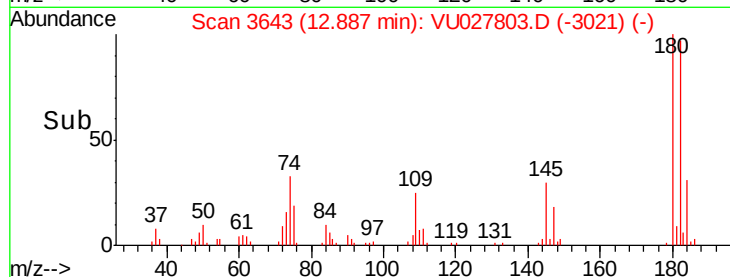
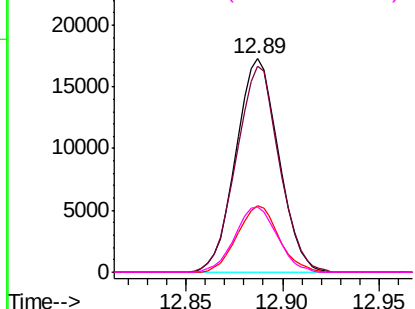
#67
 1,3,5-Trichlorobenzene
 Concen: 4.820 ug/L
 RT: 12.89 min Scan# 3643
 Delta R.T. 0.00 min
 Lab File: VU027803.D
 Acq: 24 Oct 2018 22:36

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00503

Tgt Ion:180 Resp: 26607
 Ion Ratio Lower Upper
 180 100
 182 96.7 78.9 118.3
 184 30.2 24.6 37.0
 145 30.3 23.4 35.0

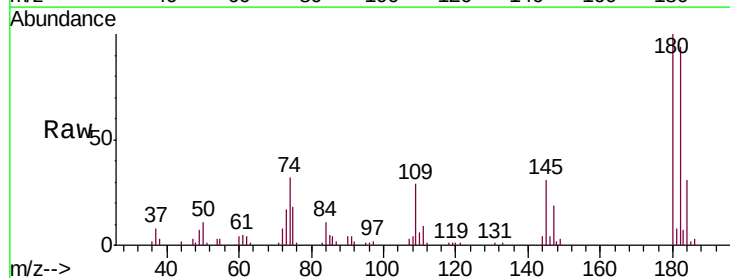


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

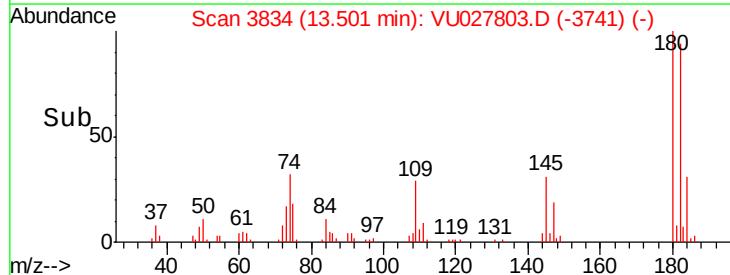
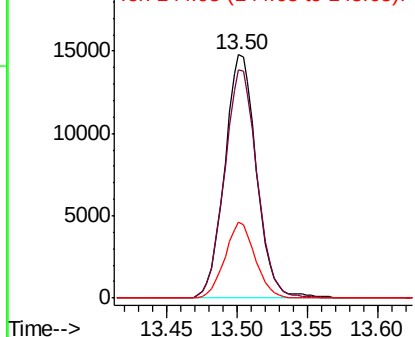


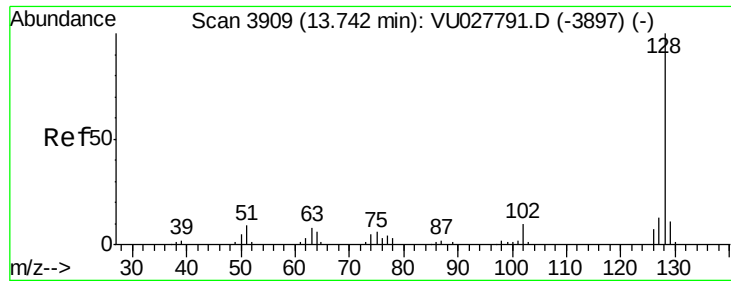
#68
 1,2,4-trichlorobenzene
 Concen: 4.862 ug/L
 RT: 13.50 min Scan# 3834
 Delta R.T. 0.00 min
 Lab File: VU027803.D
 Acq: 24 Oct 2018 22:36

Tgt Ion:180 Resp: 23310
 Ion Ratio Lower Upper
 180 100
 182 95.8 77.6 116.4
 145 29.4 23.7 35.5



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 4.762 ug/L

RT: 13.74 min Scan# 3909

Delta R.T. 0.00 min

Lab File: VU027803.D

Acq: 24 Oct 2018 22:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD00503

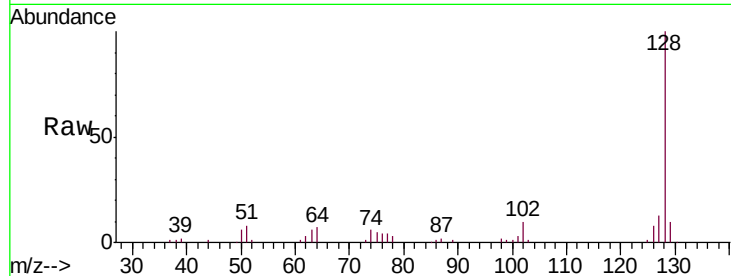
Tgt Ion:128 Resp: 37082

Ion Ratio Lower Upper

128 100

129 10.6 8.8 13.2

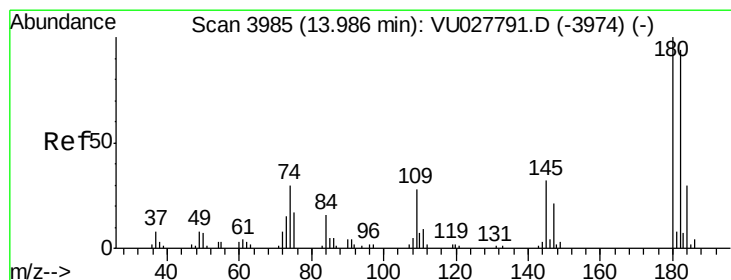
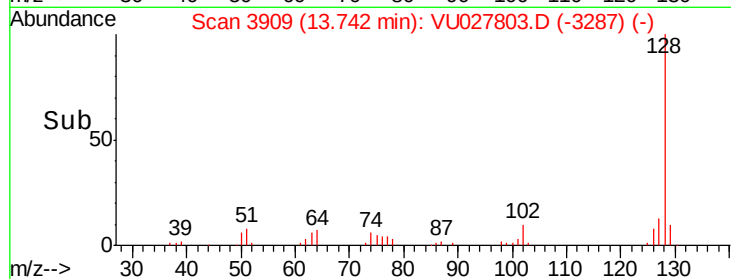
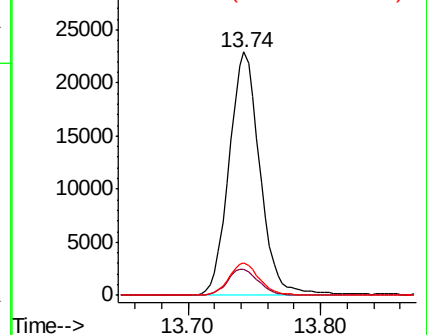
127 12.9 10.7 16.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 4.878 ug/L

RT: 13.99 min Scan# 3985

Delta R.T. 0.00 min

Lab File: VU027803.D

Acq: 24 Oct 2018 22:36

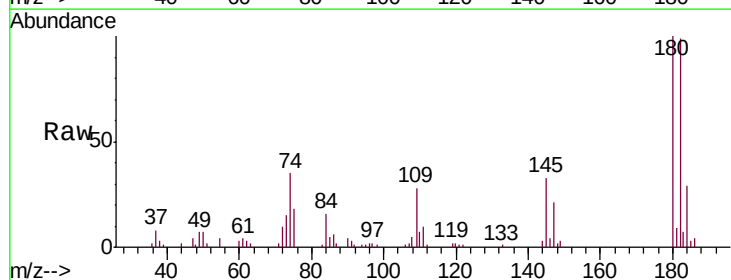
Tgt Ion:180 Resp: 21549

Ion Ratio Lower Upper

180 100

182 96.4 76.9 115.3

145 31.9 24.6 37.0



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

