

Data File : VU027796.D
Acq On : 24 Oct 2018 19:48
Operator : MD/SY
Sample : J5599-04
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
H1A04

Quant Time: Oct 25 07:24:58 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	37629	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	36664	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	19210	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	13808	4.50	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	90.00%
7) Chloroethane-d5	1.68	69	10509	4.53	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	90.60%
11) 1,1-Dichloroethene-d2	2.28	63	20367	3.47	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	69.40%
20) 2-Butanone-d5	4.20	46	49938	53.55	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	107.10%
24) Chloroform-d	4.65	84	25526	4.67	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.40%
26) 1,2-Dichloroethane-d4	5.31	65	15351	4.71	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.20%
32) Benzene-d6	5.34	84	47156	4.82	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.40%
36) 1,2-Dichloropropane-d6	6.33	67	17436	5.03	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	100.60%
41) Toluene-d8	7.57	98	46032	4.94	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.80%
43) trans-1,3-Dichloropropene-	7.85	79	6721	4.77	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	95.40%
46) 2-Hexanone-d5	8.31	63	40935	52.71	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	105.42%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	13004	4.93	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	98.60%
64) 1,2-Dichlorobenzene-d4	11.86	152	18797	5.19	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	103.80%

Target Compounds

						Qvalue
3) Chloromethane	1.33	50	684	0.167	ug/L #	41
8) Chloroethane	1.72	64	734	0.344	ug/L #	55
13) Acetone	2.31	43	3598	5.351	ug/L	51
14) Carbon disulfide	2.49	76	889	0.106	ug/L #	75
15) Methyl Acetate	2.71	43	18180	9.664	ug/L #	57
21) 2-Butanone	4.22	43	3155	2.860	ug/L #	55
27) 1,2-Dichloroethane	5.34	62	260	0.060	ug/L #	79
30) Cyclohexane	5.08	56	18617	3.152	ug/L #	24
33) Benzene	5.39	78	1994	0.164	ug/L	100
34) Trichloroethene	6.40	95	321	0.102	ug/L #	1
35) Methylcyclohexane	6.40	83	7496	1.421	ug/L #	35
37) 1,2-Dichloropropane	6.33	63	1916	0.536	ug/L #	76
38) Bromodichloromethane	6.74	83	772	0.181	ug/L #	80
39) cis-1,3-Dichloropropene	7.22	75	382	0.075	ug/L #	72
42) Toluene	7.64	91	464	0.035	ug/L	92
45) 1,1,2-Trichloroethane	8.05	97	16546	7.663	ug/L #	17
48) 2-Hexanone	8.31	43	8395	4.418	ug/L #	59

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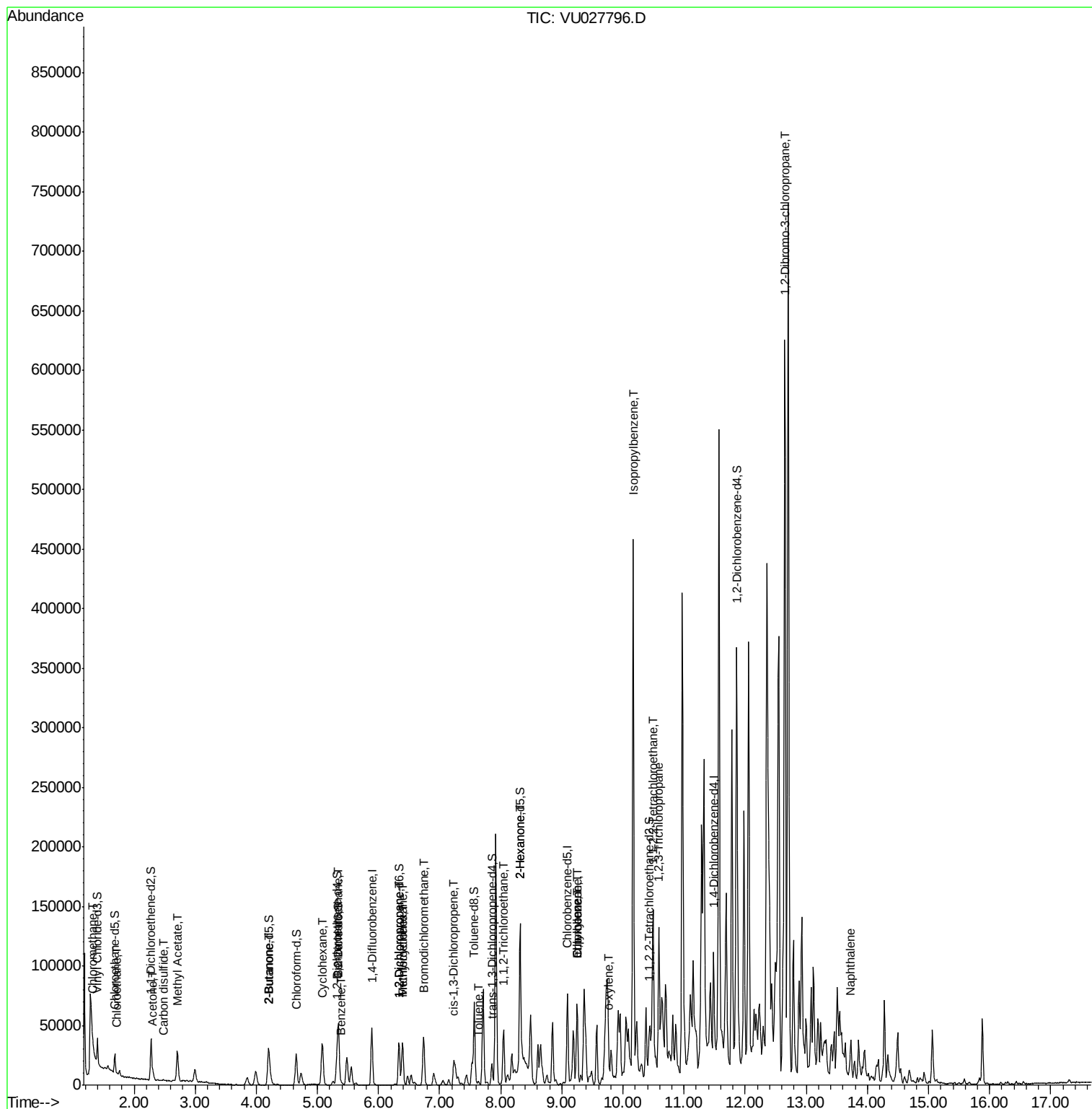
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) Chlorobenzene	9.25	112	548	0.068	ug/L #	1
52) Ethylbenzene	9.25	91	26028	1.711	ug/L	99
53) m,p-xylene	9.25	106	7548	1.401	ug/L #	24
54) o-xylene	9.78	106	870	0.165	ug/L	84
56) Isopropylbenzene	10.17	105	269441	18.482	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.49	83	10087	3.552	ug/L #	35
59) 1,2,3-Trichloropropane	10.59	75	779	0.346	ug/L #	1
66) 1,2-Dibromo-3-chloropropan	12.65	75	3148	6.221	ug/L #	13
69) Naphthalene	13.73	128	4149	0.543	ug/L #	1

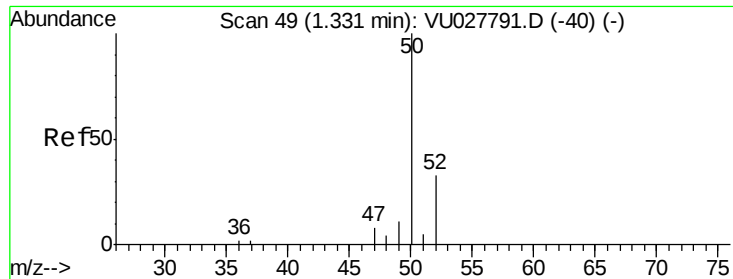
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.167 ug/L

RT: 1.33 min Scan# 49

Delta R.T. 0.00 min

Lab File: VU027796.D

Acq: 24 Oct 2018 19:48

Instrument :

MSVOA_U

ClientSampleId :

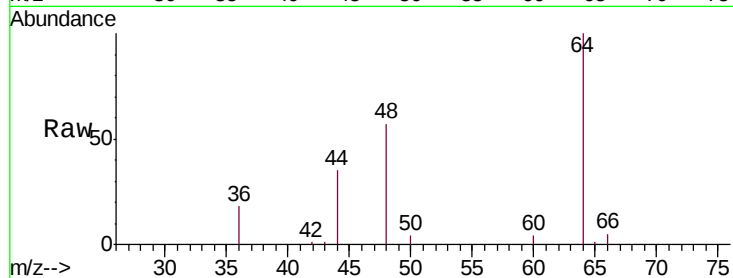
H1A04

Tgt Ion: 50 Resp: 684

Ion Ratio Lower Upper

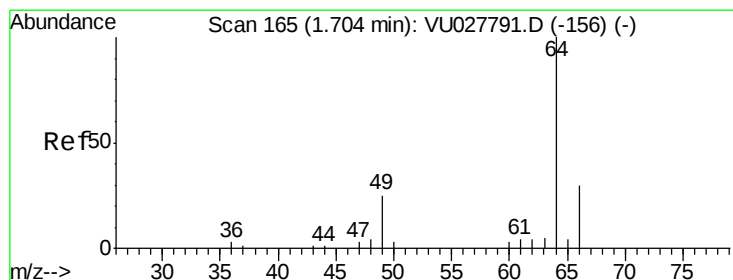
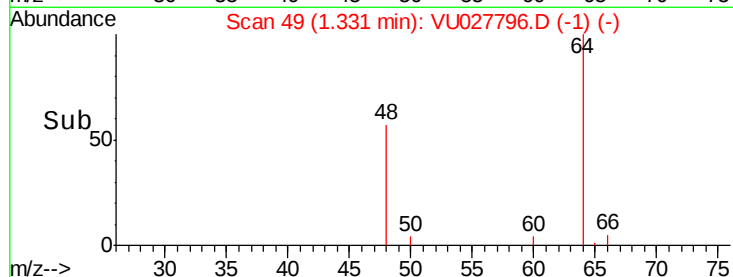
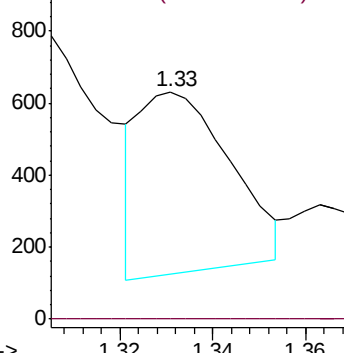
50 100

52 0.0 23.7 43.9#



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0



#8

Chloroethane

Concen: 0.344 ug/L

RT: 1.72 min Scan# 170

Delta R.T. 0.02 min

Lab File: VU027796.D

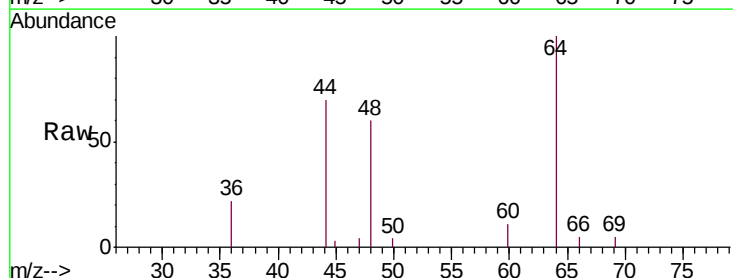
Acq: 24 Oct 2018 19:48

Tgt Ion: 64 Resp: 734

Ion Ratio Lower Upper

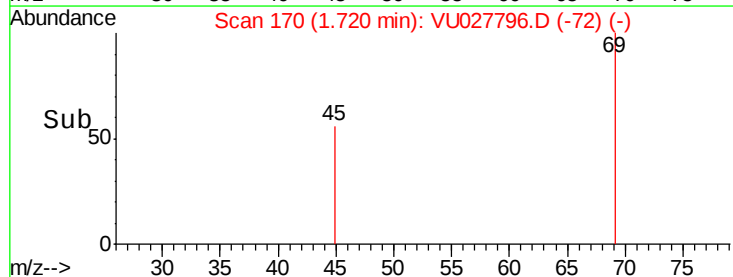
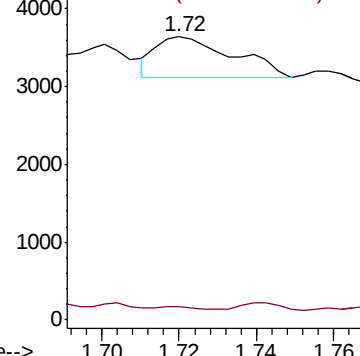
64 100

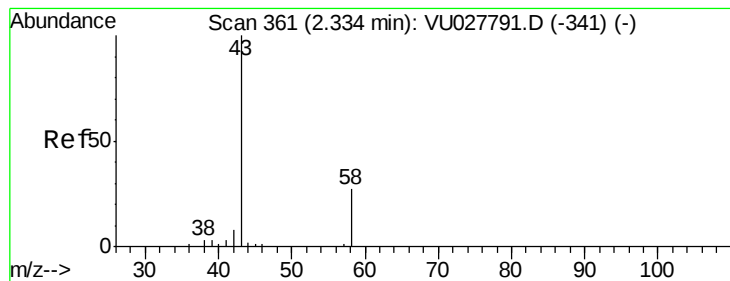
66 4.8 20.3 37.7#



Abundance Ion 64.10 (63.80 to 64.80): VU0

Ion 66.05 (65.75 to 66.75): VU0





#13

Acetone

Concen: 5.351 ug/L

RT: 2.31 min Scan# 354

Delta R.T. -0.02 min

Lab File: VU027796.D

Acq: 24 Oct 2018 19:48

Instrument :

MSVOA_U

ClientSampleId :

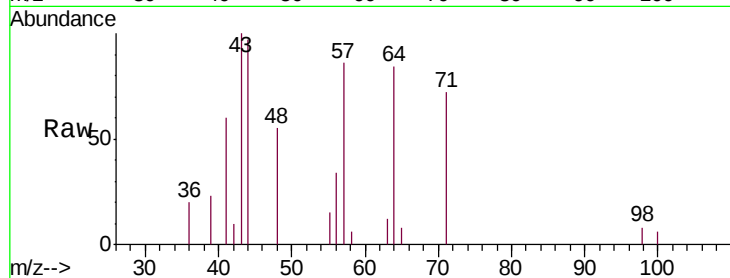
H1A04

Tgt Ion: 43 Resp: 3598

Ion Ratio Lower Upper

43 100

58 1.1 0.0 52.8



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

2000

1500

1000

500

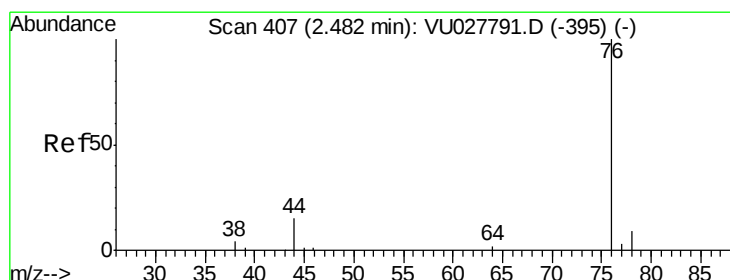
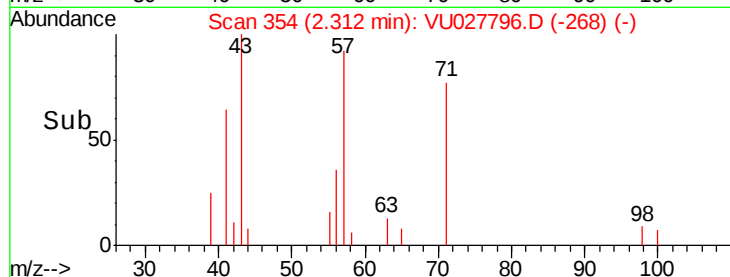
0

2.25

2.30

2.35

Time-->



#14

Carbon disulfide

Concen: 0.106 ug/L

RT: 2.49 min Scan# 408

Delta R.T. 0.00 min

Lab File: VU027796.D

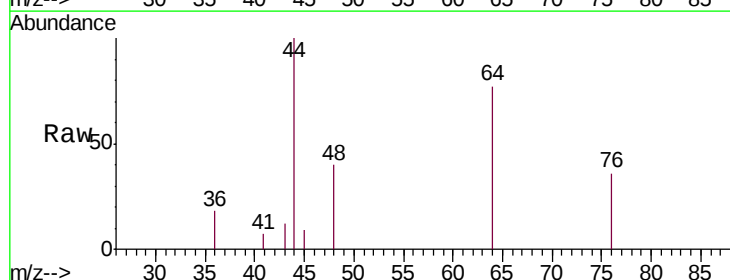
Acq: 24 Oct 2018 19:48

Tgt Ion: 76 Resp: 889

Ion Ratio Lower Upper

76 100

78 0.0 7.4 11.0#



Abundance Ion 76.05 (75.75 to 76.75): VU0

Ion 78.00 (77.70 to 78.70): VU0

600

500

400

300

200

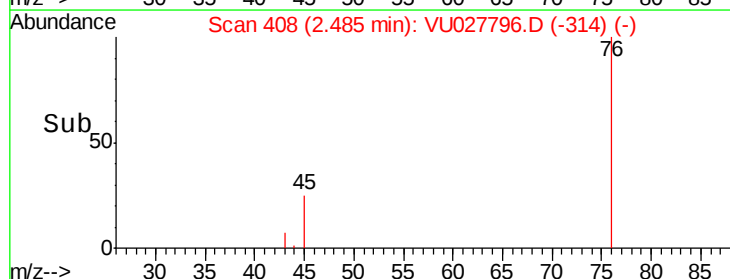
100

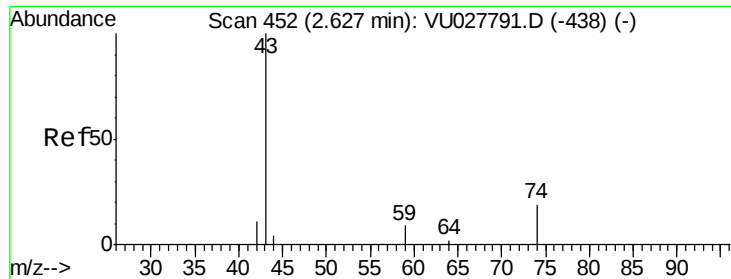
0

2.45

2.50

Time-->





#15

Methyl Acetate

Concen: 9.664 ug/L

RT: 2.71 min Scan# 477

Delta R.T. 0.08 min

Lab File: VU027796.D

Acq: 24 Oct 2018 19:48

Instrument :

MSVOA_U

ClientSampleId :

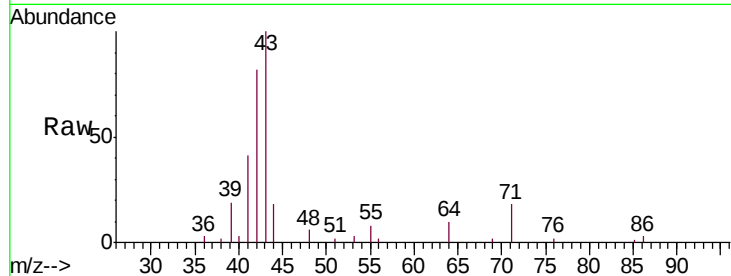
H1A04

Tgt Ion: 43 Resp: 18180

Ion Ratio Lower Upper

43 100

74 0.0 15.8 23.8#



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 74.05 (73.75 to 74.75): VU0

2.71

10000

8000

6000

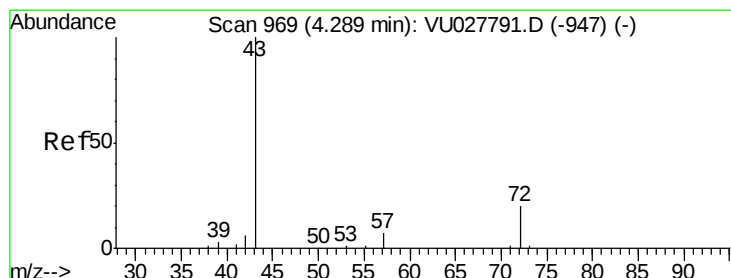
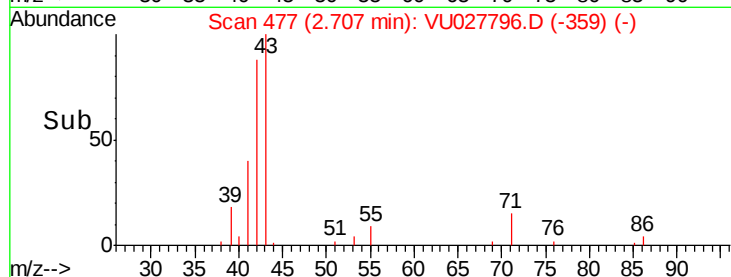
4000

2000

0

Time-->

2.60 2.65 2.70 2.75 2.80



#21

2-Butanone

Concen: 2.860 ug/L

RT: 4.22 min Scan# 946

Delta R.T. -0.07 min

Lab File: VU027796.D

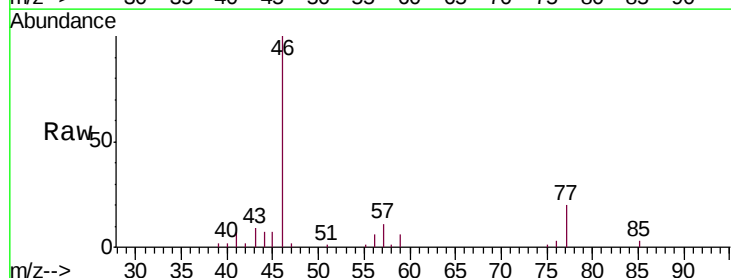
Acq: 24 Oct 2018 19:48

Tgt Ion: 43 Resp: 3155

Ion Ratio Lower Upper

43 100

72 0.0 10.5 31.6#



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 72.10 (71.80 to 72.80): VU0

4.22

1200

1000

800

600

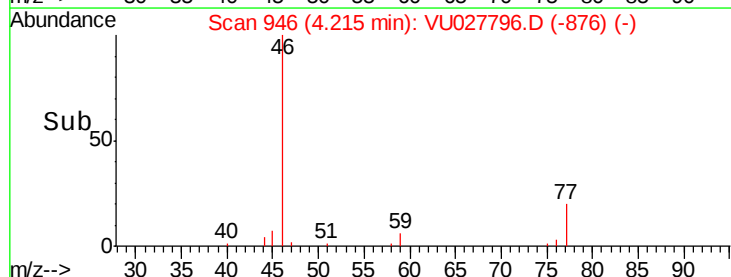
400

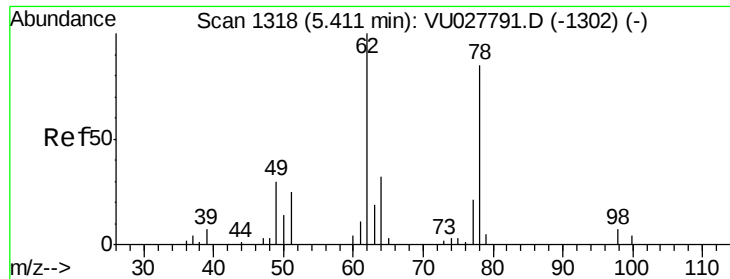
200

0

Time-->

4.15 4.20 4.25 4.30

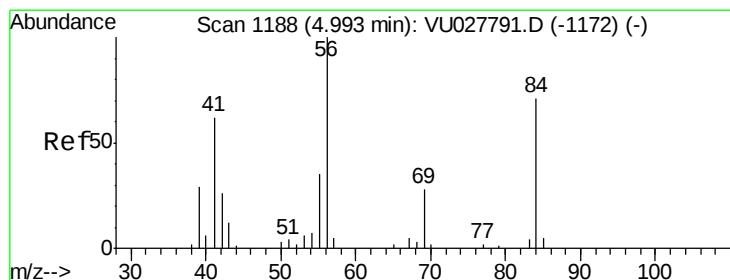
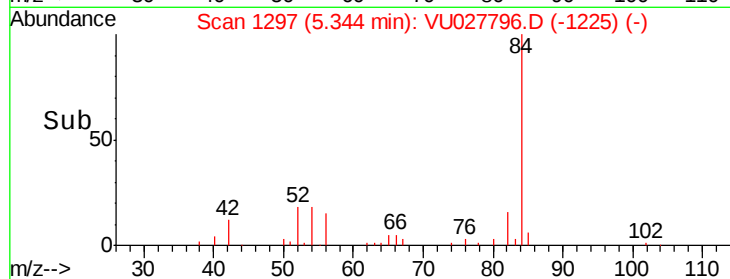
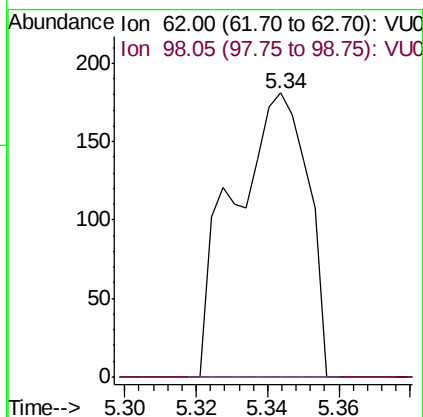
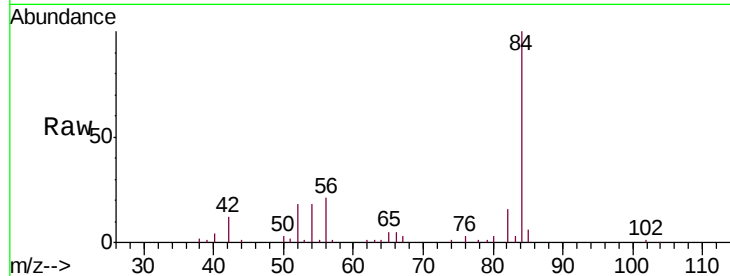




#27
 1,2-Dichloroethane
 Concen: 0.060 ug/L
 RT: 5.34 min Scan# 1297
 Delta R.T. -0.07 min
 Lab File: VU027796.D
 Acq: 24 Oct 2018 19:48

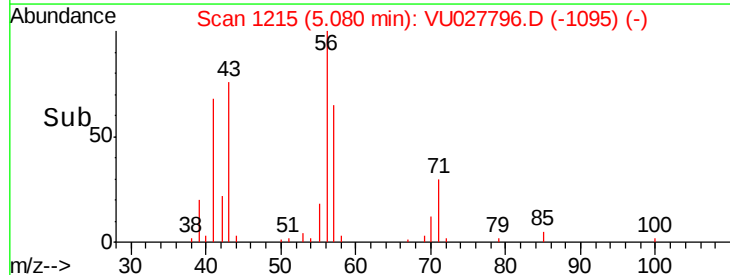
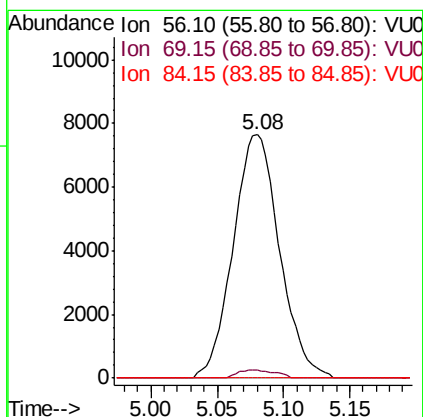
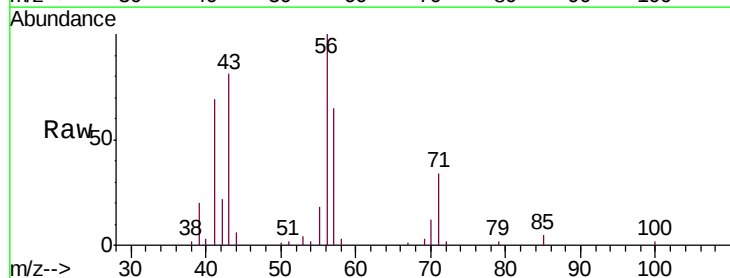
Instrument :
 MSVOA_U
 ClientSampleId :
 H1A04

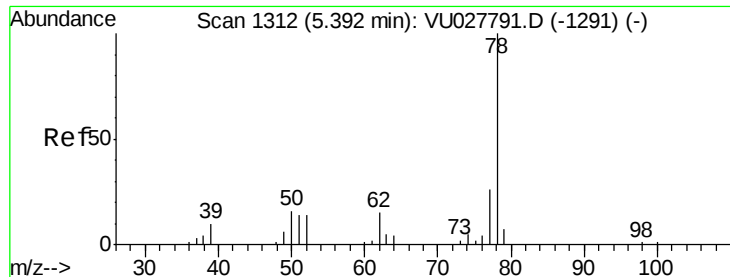
Tgt Ion: 62 Resp: 260
 Ion Ratio Lower Upper
 62 100
 98 0.0 5.7 8.5#



#30
 Cyclohexane
 Concen: 3.152 ug/L
 RT: 5.08 min Scan# 1215
 Delta R.T. 0.09 min
 Lab File: VU027796.D
 Acq: 24 Oct 2018 19:48

Tgt Ion: 56 Resp: 18617
 Ion Ratio Lower Upper
 56 100
 69 2.8 22.2 33.4#
 84 0.0 58.6 88.0#





#33

Benzene

Concen: 0.164 ug/L

RT: 5.39 min Scan# 1311

Delta R.T. -0.00 min

Lab File: VU027796.D

Acq: 24 Oct 2018 19:48

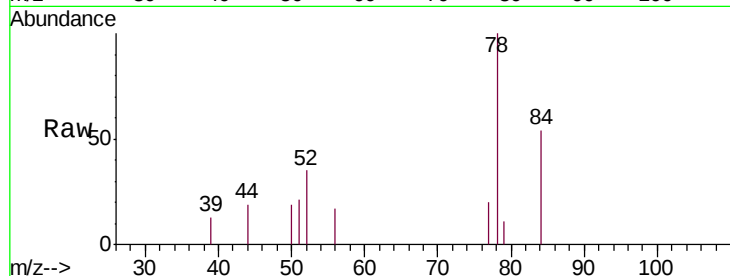
Instrument :

MSVOA_U

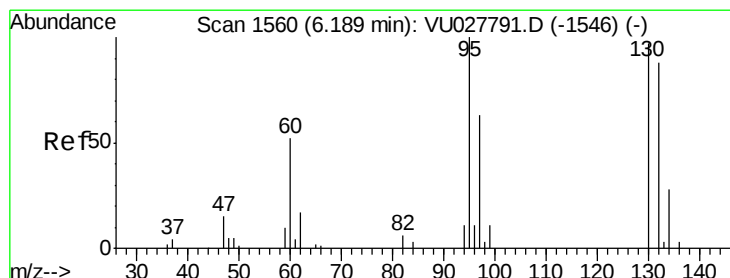
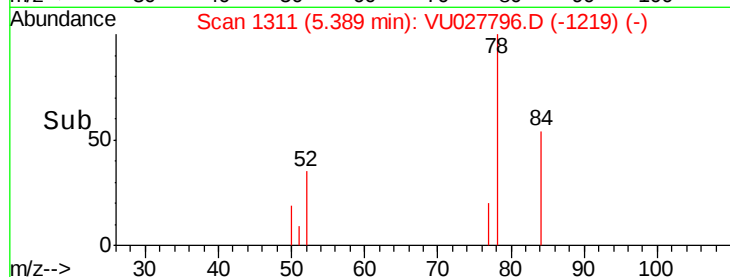
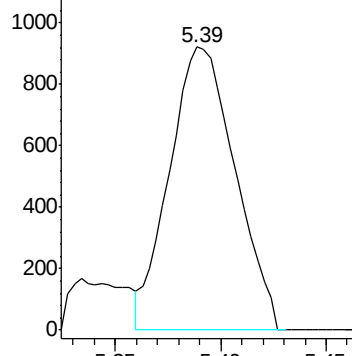
ClientSampleId :

H1A04

Tgt Ion: 78 Resp: 1994



Abundance Ion 78.10 (77.80 to 78.80): VU0



#34

Trichloroethene

Concen: 0.102 ug/L

RT: 6.40 min Scan# 1624

Delta R.T. 0.21 min

Lab File: VU027796.D

Acq: 24 Oct 2018 19:48

Tgt Ion: 95 Resp: 321

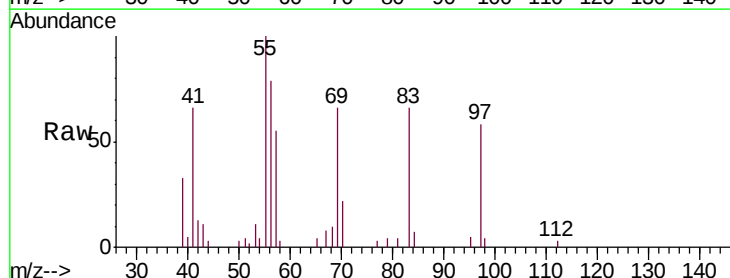
Ion Ratio Lower Upper

95 100

97 1273.1 46.4 86.2#

132 0.0 62.0 115.2#

130 0.0 59.5 110.5#

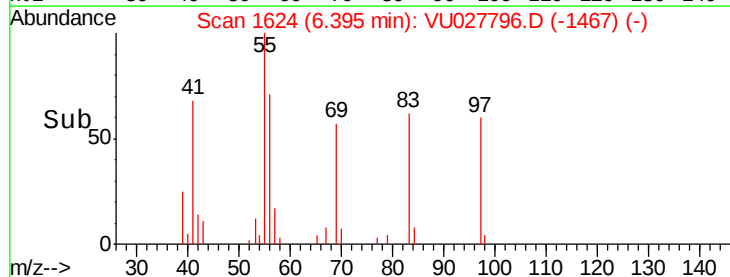
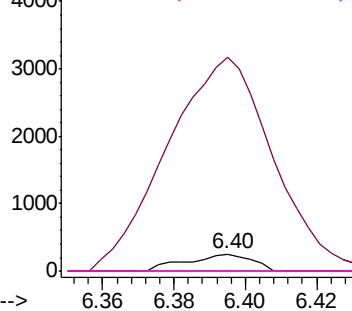


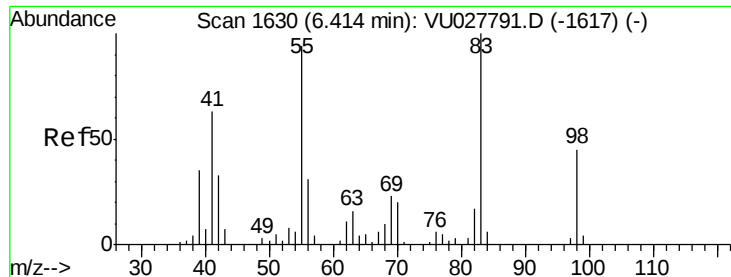
Abundance Ion 95.00 (94.70 to 95.70): VU0

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

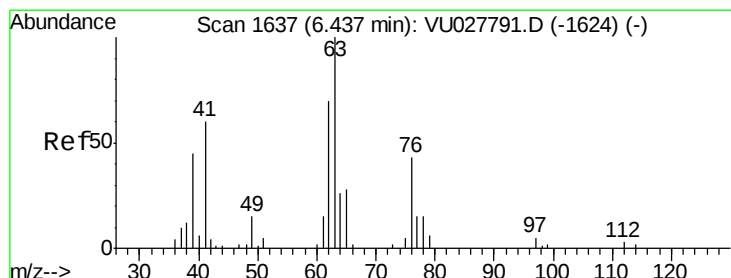
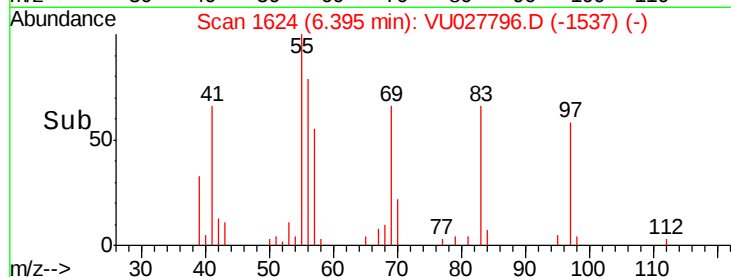
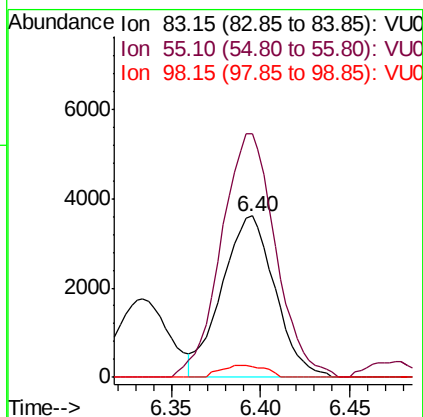
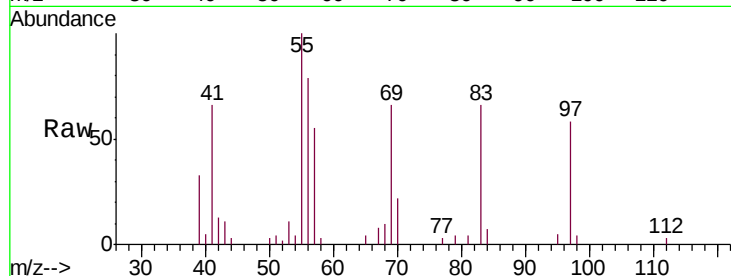




#35
Methylcyclohexane
Concen: 1.421 ug/L
RT: 6.40 min Scan# 1624
Delta R.T. -0.02 min
Lab File: VU027796.D
Acq: 24 Oct 2018 19:48

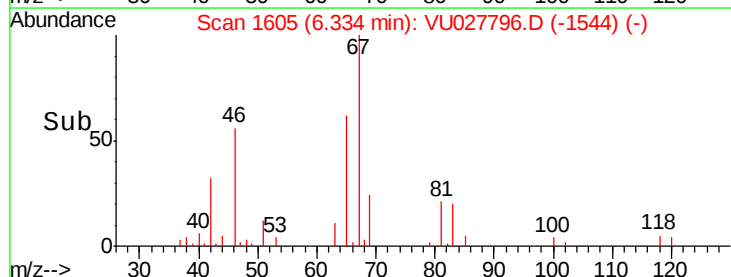
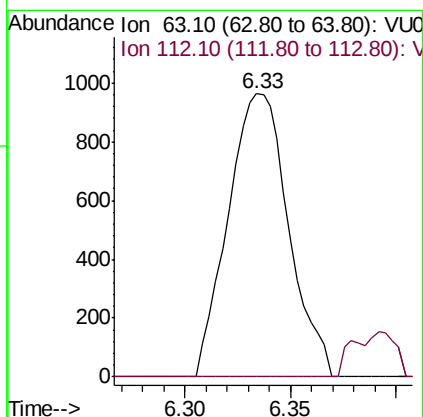
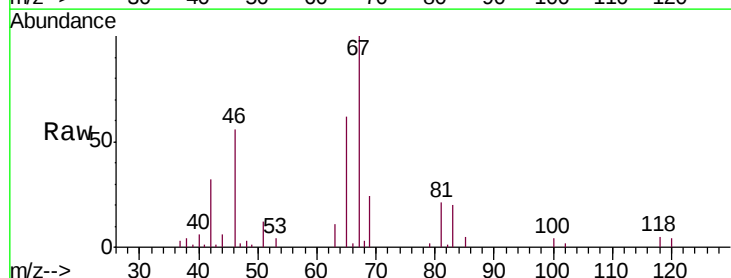
Instrument :
MSVOA_U
ClientSampleId :
H1A04

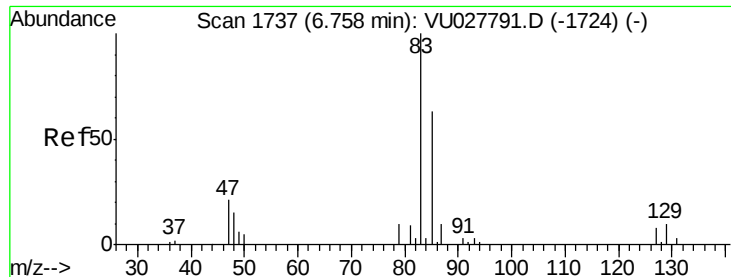
Tgt Ion: 83 Resp: 7496
Ion Ratio Lower Upper
83 100
55 153.5 71.5 107.3#
98 6.1 35.4 53.0#



#37
1,2-Dichloropropane
Concen: 0.536 ug/L
RT: 6.33 min Scan# 1605
Delta R.T. -0.10 min
Lab File: VU027796.D
Acq: 24 Oct 2018 19:48

Tgt Ion: 63 Resp: 1916
Ion Ratio Lower Upper
63 100
112 11.2 2.7 4.1#

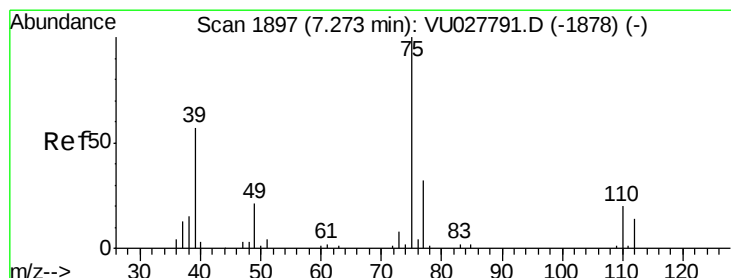
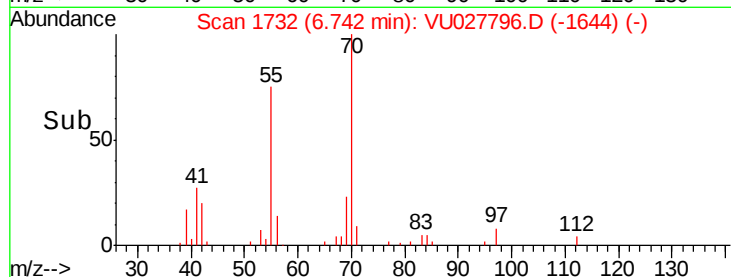
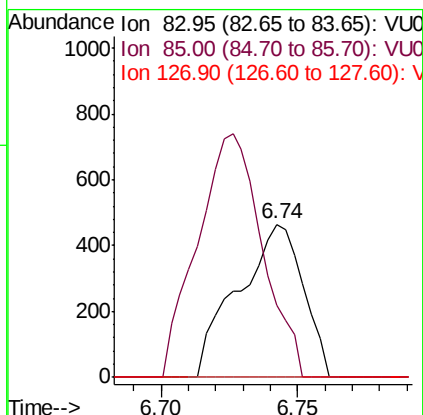
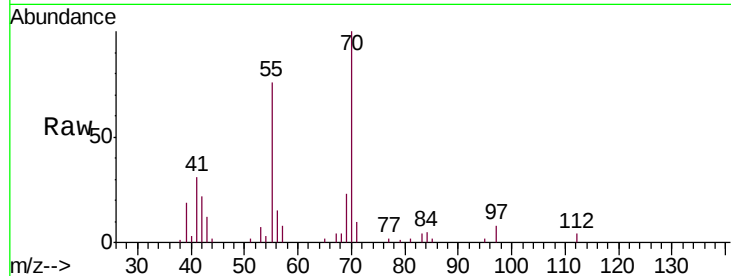




#38
 Bromodichloromethane
 Concen: 0.181 ug/L
 RT: 6.74 min Scan# 1732
 Delta R.T. -0.02 min
 Lab File: VU027796.D
 Acq: 24 Oct 2018 19:48

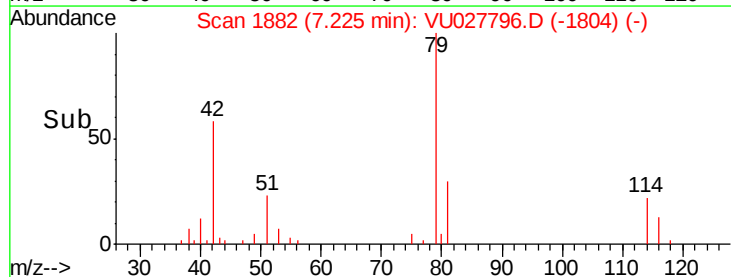
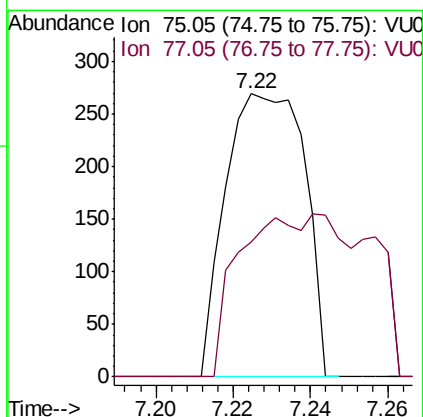
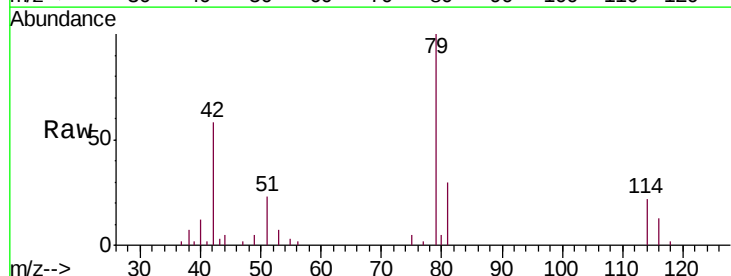
Instrument :
 MSVOA_U
 ClientSampled :
 H1A04

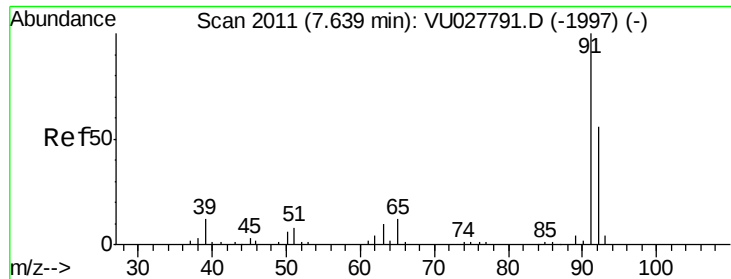
Tgt Ion: 83 Resp: 772
 Ion Ratio Lower Upper
 83 100
 85 47.2 43.3 80.5
 127 0.0 7.2 10.8#



#39
 cis-1,3-Dichloropropene
 Concen: 0.075 ug/L
 RT: 7.22 min Scan# 1882
 Delta R.T. -0.05 min
 Lab File: VU027796.D
 Acq: 24 Oct 2018 19:48

Tgt Ion: 75 Resp: 382
 Ion Ratio Lower Upper
 75 100
 77 47.6 22.5 41.7#





#42

Toluene

Concen: 0.035 ug/L

RT: 7.64 min Scan# 2012

Delta R.T. 0.00 min

Lab File: VU027796.D

Acq: 24 Oct 2018 19:48

Instrument :

MSVOA_U

ClientSampleId :

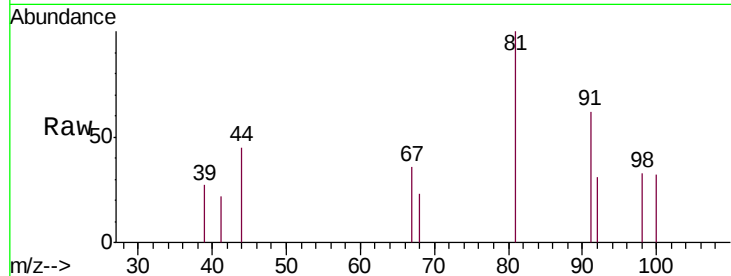
H1A04

Tgt Ion: 91 Resp: 464

Ion Ratio Lower Upper

91 100

92 49.2 38.6 71.8



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 92.15 (91.85 to 92.85): VU0

7.64

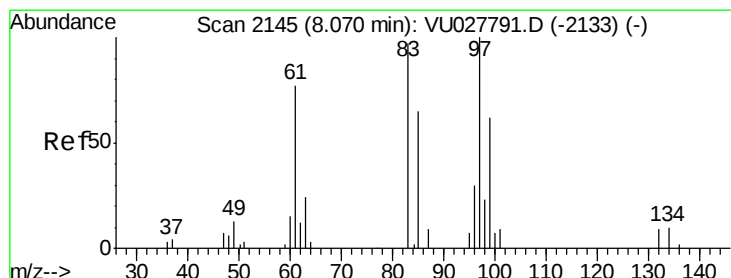
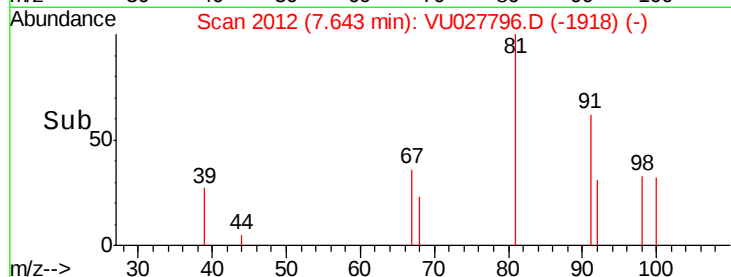
300

200

100

0

Time--> 7.60 7.62 7.64 7.66 7.68



#45

1,1,2-Trichloroethane

Concen: 7.663 ug/L

RT: 8.05 min Scan# 2138

Delta R.T. -0.02 min

Lab File: VU027796.D

Acq: 24 Oct 2018 19:48

Tgt Ion: 97 Resp: 16546

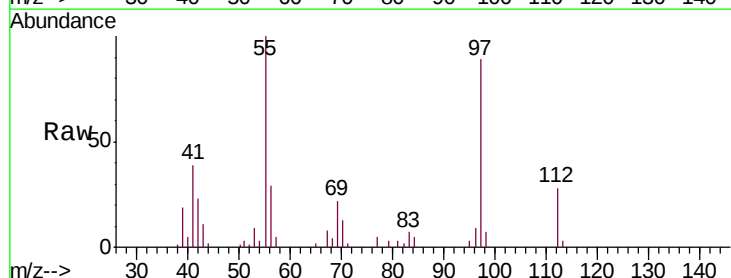
Ion Ratio Lower Upper

97 100

99 0.0 42.8 79.6#

83 7.5 62.9 116.9#

85 0.0 40.8 75.8#



Abundance Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

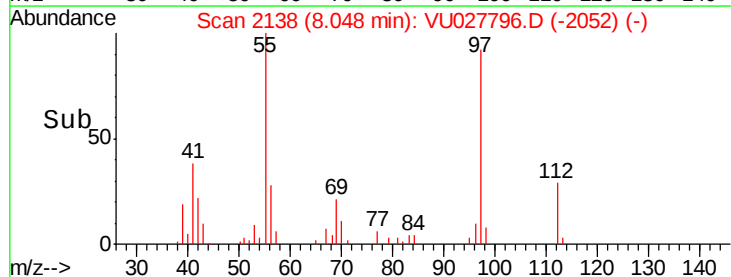
Ion 85.00 (84.70 to 85.70): VU0

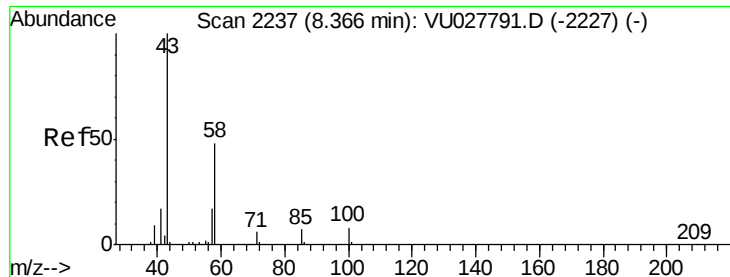
10000

5000

0

Time--> 7.95 8.00 8.05 8.10

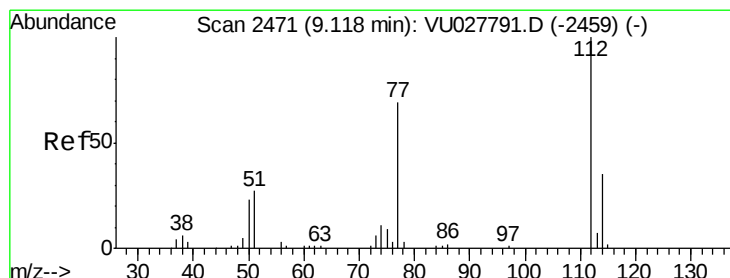
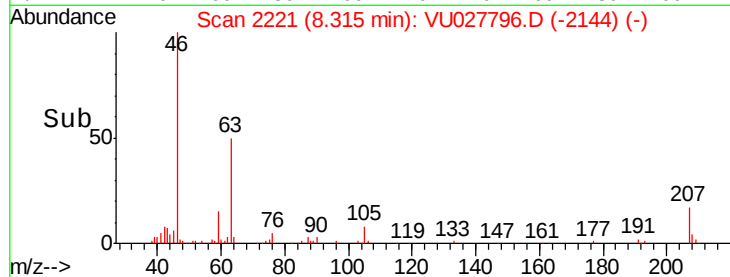
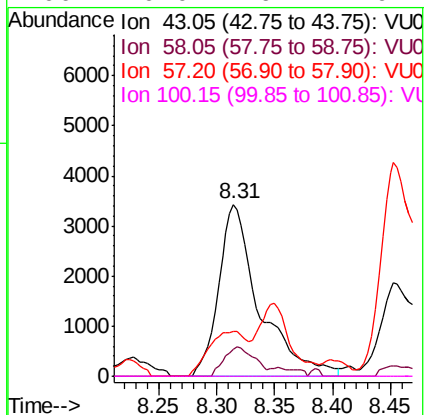
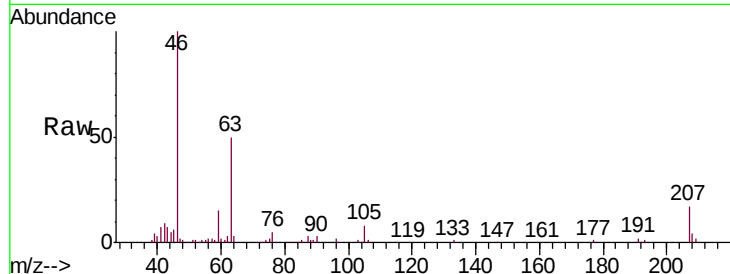




#48
2-Hexanone
Concen: 4.418 ug/L
RT: 8.31 min Scan# 2221
Delta R.T. -0.05 min
Lab File: VU027796.D
Acq: 24 Oct 2018 19:48

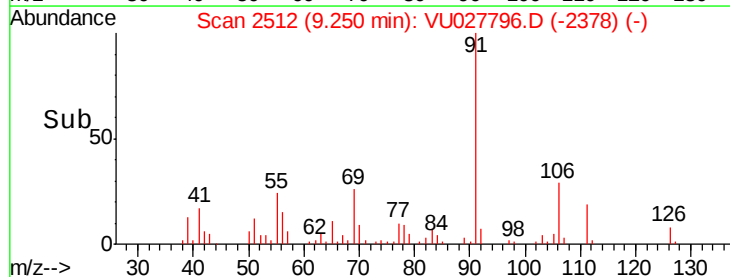
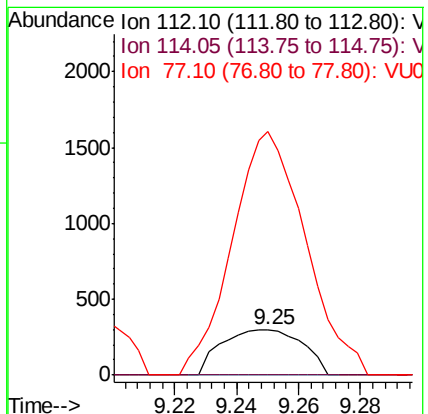
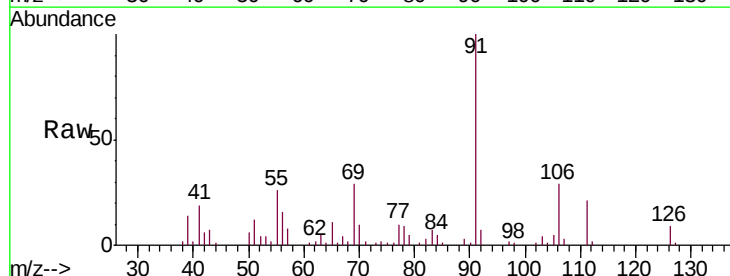
Instrument :
MSVOA_U
ClientSampleId :
H1A04

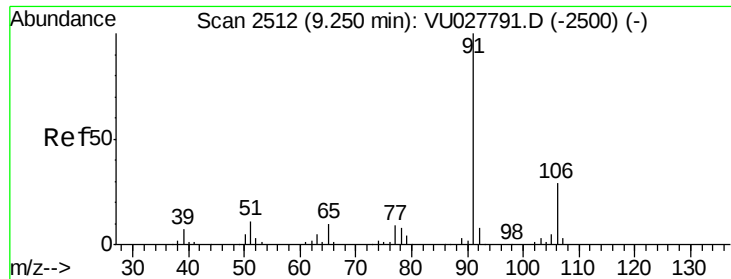
Tgt Ion: 43 Resp: 8395
Ion Ratio Lower Upper
43 100
58 12.9 39.4 59.0#
57 23.8 13.8 20.8#
100 0.0 6.7 10.1#



#51
Chlorobenzene
Concen: 0.068 ug/L
RT: 9.25 min Scan# 2512
Delta R.T. 0.13 min
Lab File: VU027796.D
Acq: 24 Oct 2018 19:48

Tgt Ion: 112 Resp: 548
Ion Ratio Lower Upper
112 100
114 0.0 21.2 39.4#
77 531.5 54.2 81.4#





#52

Ethylbenzene

Concen: 1.711 ug/L

RT: 9.25 min Scan# 2512

Delta R.T. 0.00 min

Lab File: VU027796.D

Acq: 24 Oct 2018 19:48

Instrument :

MSVOA_U

ClientSampleId :

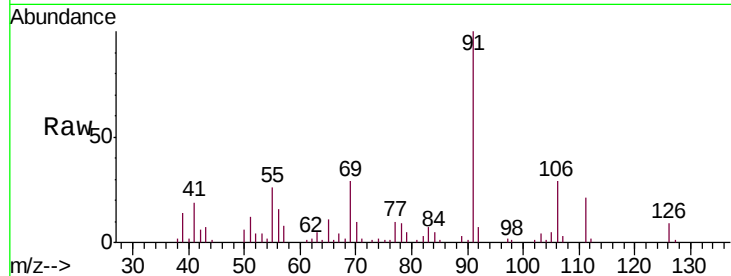
H1A04

Tgt Ion: 91 Resp: 26028

Ion Ratio Lower Upper

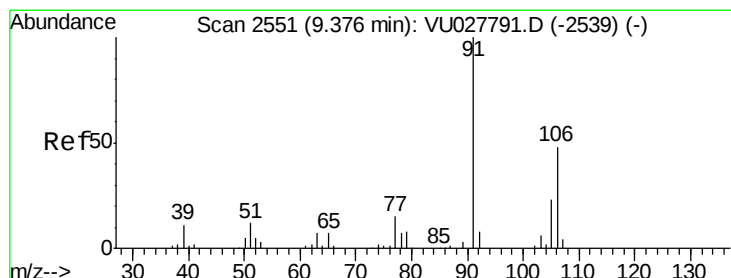
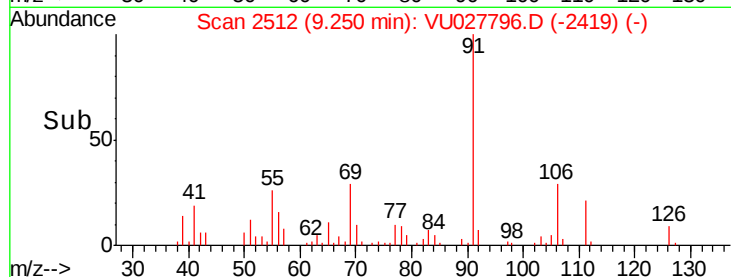
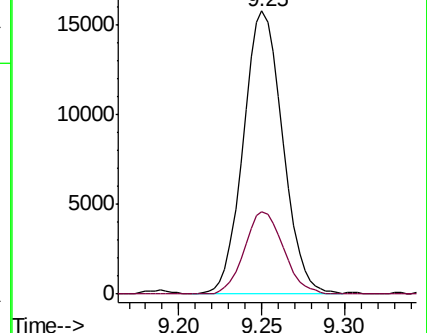
91 100

106 29.2 20.6 38.4



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

Ion 106.15 (105.85 to 106.85): VU027796.D (-2419) (-)



#53

m,p-xylene

Concen: 1.401 ug/L

RT: 9.25 min Scan# 2512

Delta R.T. -0.13 min

Lab File: VU027796.D

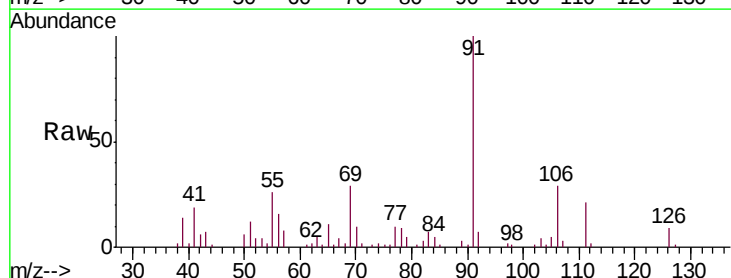
Acq: 24 Oct 2018 19:48

Tgt Ion: 106 Resp: 7548

Ion Ratio Lower Upper

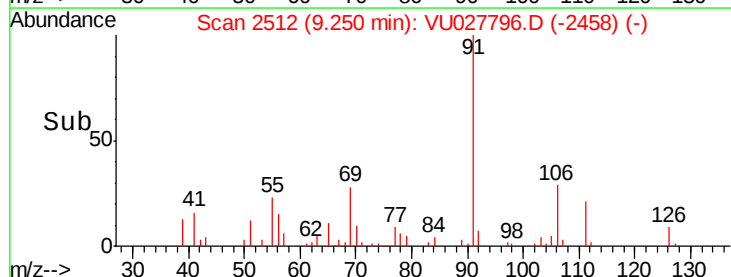
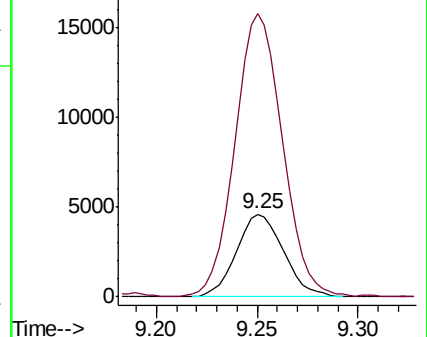
106 100

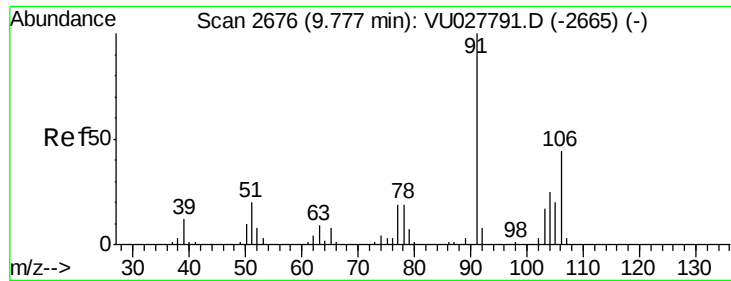
91 342.4 154.1 286.3#



Abundance Ion 106.15 (105.85 to 106.85): VU027796.D (-2458) (-)

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





#54

o-xylene

Concen: 0.165 ug/L

RT: 9.78 min Scan# 2676

Delta R.T. 0.00 min

Lab File: VU027796.D

Acq: 24 Oct 2018 19:48

Instrument :

MSVOA_U

ClientSampleId :

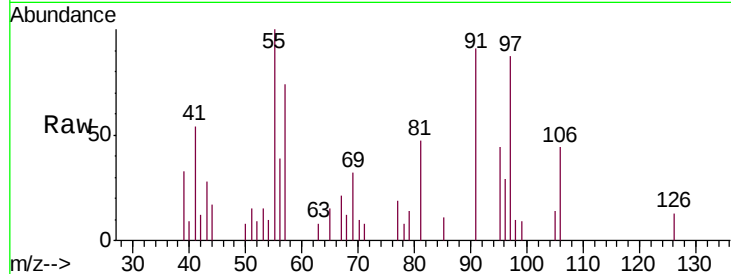
H1A04

Tgt Ion:106 Resp: 870

Ion Ratio Lower Upper

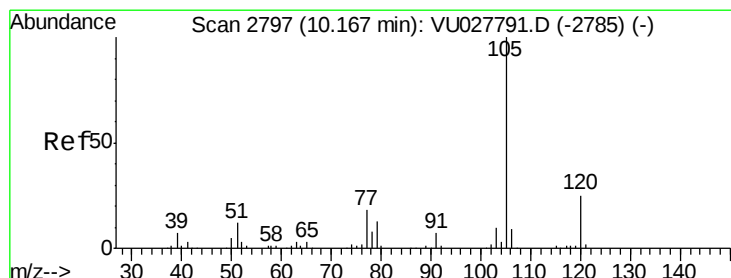
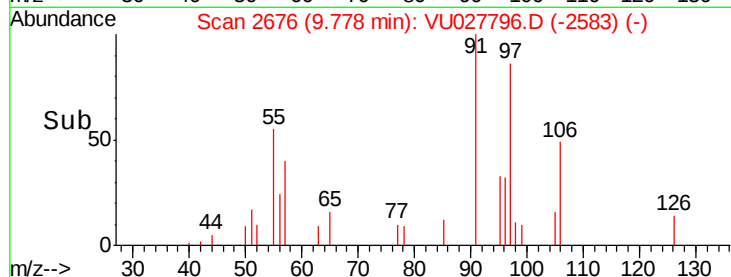
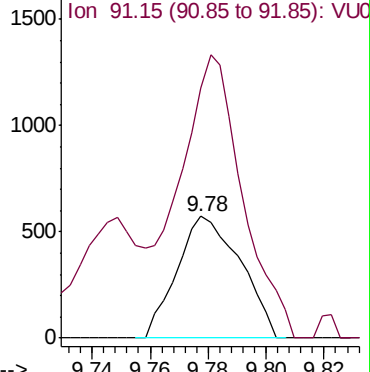
106 100

91 204.7 161.3 299.7



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#56

Isopropylbenzene

Concen: 18.482 ug/L

RT: 10.17 min Scan# 2797

Delta R.T. 0.00 min

Lab File: VU027796.D

Acq: 24 Oct 2018 19:48

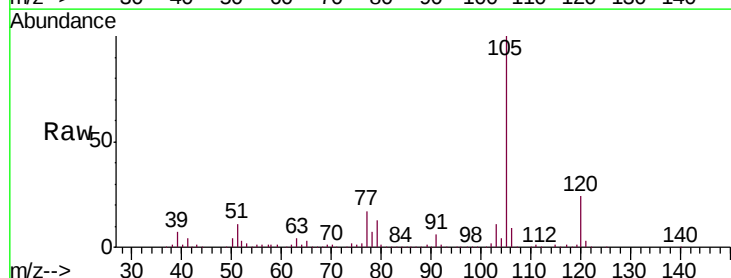
Tgt Ion:105 Resp: 269441

Ion Ratio Lower Upper

105 100

120 24.9 19.9 29.9

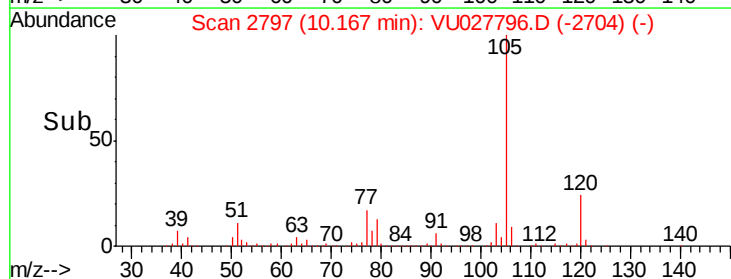
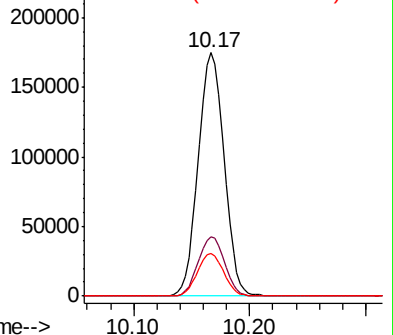
77 17.3 13.7 20.5

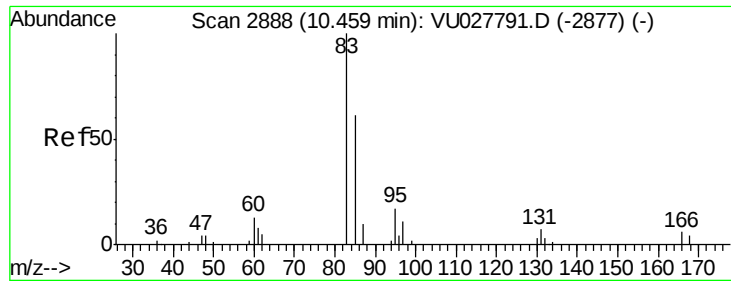


Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): VU0





#58

1,1,2,2-Tetrachloroethane

Concen: 3.552 ug/L

RT: 10.49 min Scan# 2897

Delta R.T. 0.03 min

Lab File: VU027796.D

Acq: 24 Oct 2018 19:48

Instrument :

MSVOA_U

ClientSampleId :

H1A04

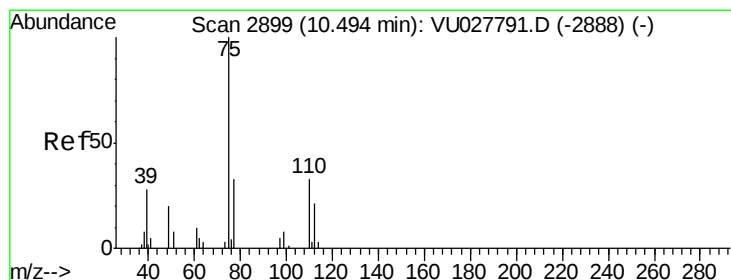
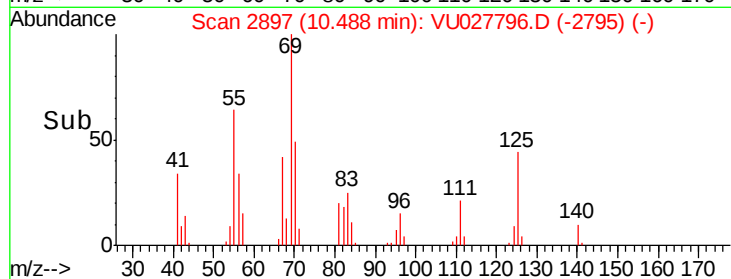
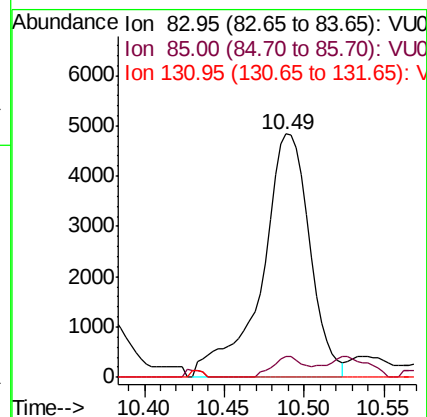
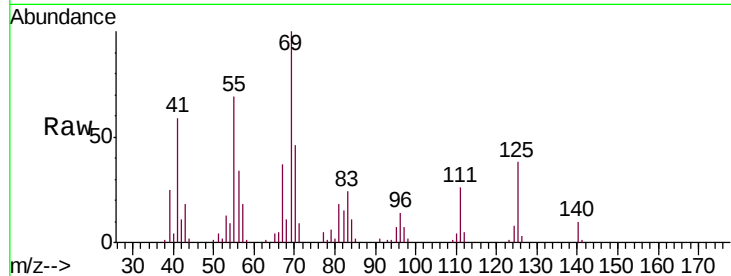
Tgt Ion: 83 Resp: 10087

Ion Ratio Lower Upper

83 100

85 8.8 45.5 84.5#

131 0.0 8.8 13.2#



#59

1,2,3-Trichloropropane

Concen: 0.346 ug/L

RT: 10.59 min Scan# 2928

Delta R.T. 0.09 min

Lab File: VU027796.D

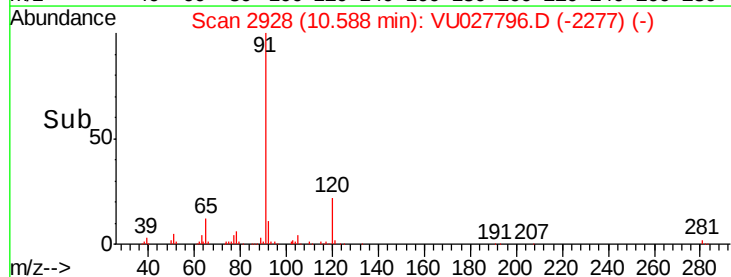
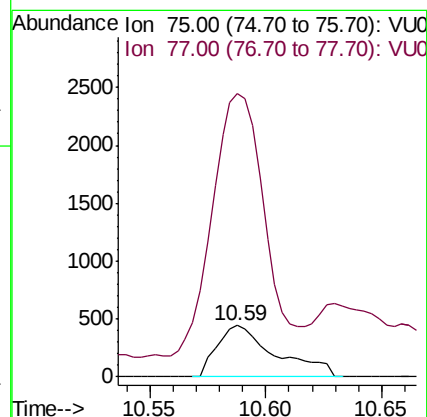
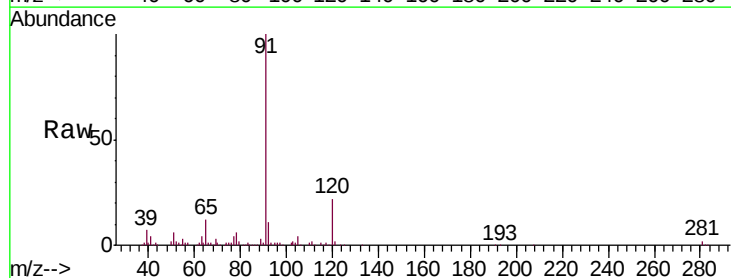
Acq: 24 Oct 2018 19:48

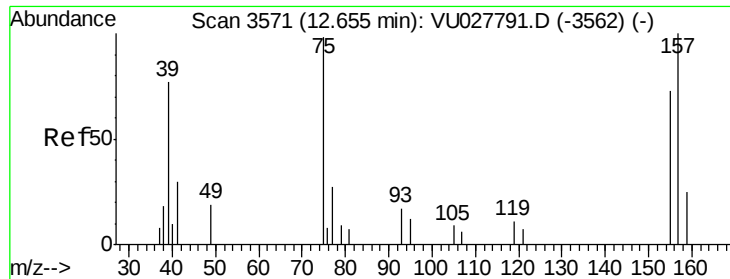
Tgt Ion: 75 Resp: 779

Ion Ratio Lower Upper

75 100

77 450.4 26.4 39.6#





#66

1,2-Dibromo-3-chloropropane

Concen: 6.221 ug/L

RT: 12.65 min Scan# 3569

Delta R.T. -0.01 min

Lab File: VU027796.D

Acq: 24 Oct 2018 19:48

Instrument :

MSVOA_U

ClientSampled :

H1A04

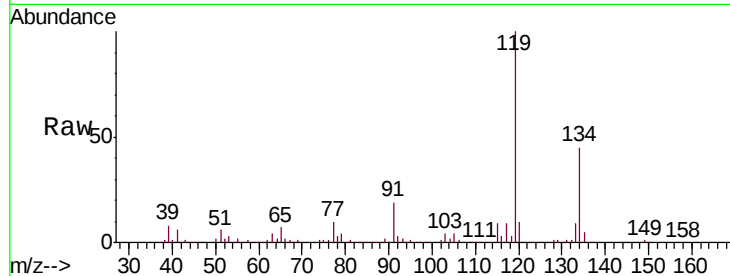
Tgt Ion: 75 Resp: 3148

Ion Ratio Lower Upper

75 100

155 0.0 46.2 69.2#

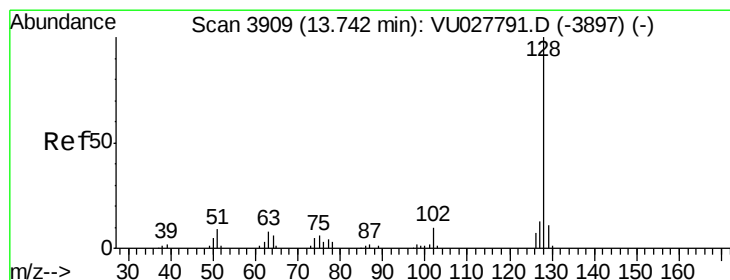
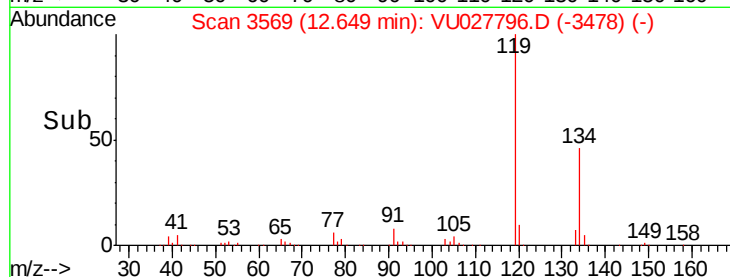
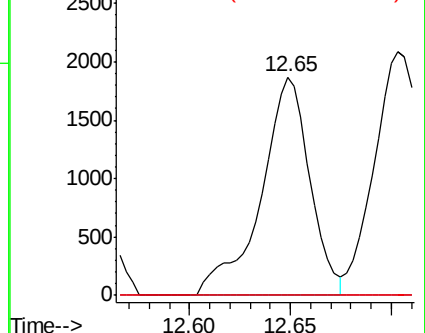
157 0.0 68.9 103.3#



Abundance Ion 75.05 (74.75 to 75.75): VU027796.D (-3562) (-)

Ion 154.95 (154.65 to 155.65): VU027796.D (-3562) (-)

Ion 156.90 (156.60 to 157.60): VU027796.D (-3562) (-)



#69

Naphthalene

Concen: 0.543 ug/L

RT: 13.73 min Scan# 3904

Delta R.T. -0.02 min

Lab File: VU027796.D

Acq: 24 Oct 2018 19:48

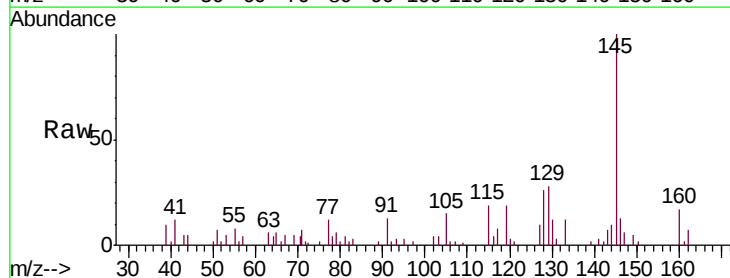
Tgt Ion: 128 Resp: 4149

Ion Ratio Lower Upper

128 100

129 88.9 8.8 13.2#

127 31.4 10.7 16.1#



Abundance Ion 128.00 (127.70 to 128.70): VU027796.D (-3897) (-)

Ion 129.00 (128.70 to 129.70): VU027796.D (-3897) (-)

Ion 127.00 (126.70 to 127.70): VU027796.D (-3897) (-)

