

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU101818\
 Data File : VU027693.D
 Acq On : 18 Oct 2018 12:51
 Operator : MD/SY
 Sample : J5463-07
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 C0JB8

Quant Time: Oct 19 08:14:11 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR101718WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Oct 19 08:11:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	71890	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	66392	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	31744	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	26948	4.72	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	94.40%
7) Chloroethane-d5	1.68	69	19962	4.65	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	93.00%
11) 1,1-Dichloroethene-d2	2.28	63	49019	4.83	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	96.60%
20) 2-Butanone-d5	4.20	46	83760	51.56	ug/L	-0.03
Spiked Amount	50.000	Range	40 - 130	Recovery	=	103.12%
24) Chloroform-d	4.65	84	43024	4.83	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.60%
26) 1,2-Dichloroethane-d4	5.31	65	24445	4.89	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.80%
32) Benzene-d6	5.34	84	88336	4.88	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.60%
36) 1,2-Dichloropropane-d6	6.33	67	32091	5.08	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	101.60%
41) Toluene-d8	7.57	98	78301	4.48	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.60%
43) trans-1,3-Dichloropropene-	7.85	79	12162	4.37	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	87.40%
46) 2-Hexanone-d5	8.31	63	69410	50.88	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	101.76%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	23518	4.78	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	95.60%
64) 1,2-Dichlorobenzene-d4	11.86	152	29133	4.90	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	98.00%

Target Compounds

					Qvalue
5) Vinyl chloride	1.40	62	447339	63.766	ug/L 99
8) Chloroethane	1.57	64	26476	6.547	ug/L # 49
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	219	0.045	ug/L # 41
12) 1,1-Dichloroethene	2.29	96	31330	6.440	ug/L 88
13) Acetone	2.33	43	2961	2.850	ug/L 97
17) Methyl tert-butyl Ether	3.01	73	13984	1.040	ug/L # 94
18) trans-1,2-Dichloroethene	2.98	96	2800	0.541	ug/L 94
19) 1,1-Dichloroethane	3.45	63	33130	3.218	ug/L 97
22) cis-1,2-Dichloroethene	4.23	96	322375	56.316	ug/L # 96
25) Chloroform	4.67	83	473	0.048	ug/L 95
27) 1,2-Dichloroethane	5.41	62	1584	0.252	ug/L # 72
34) Trichloroethene	6.19	95	10546	1.875	ug/L 96
35) Methylcyclohexane	6.33	83	6879	0.710	ug/L # 19
37) 1,2-Dichloropropane	6.43	63	195	0.031	ug/L # 89
39) cis-1,3-Dichloropropene	7.23	75	642	0.071	ug/L # 31
42) Toluene	7.64	91	886	0.038	ug/L 76
51) Chlorobenzene	9.12	112	2261	0.158	ug/L 86

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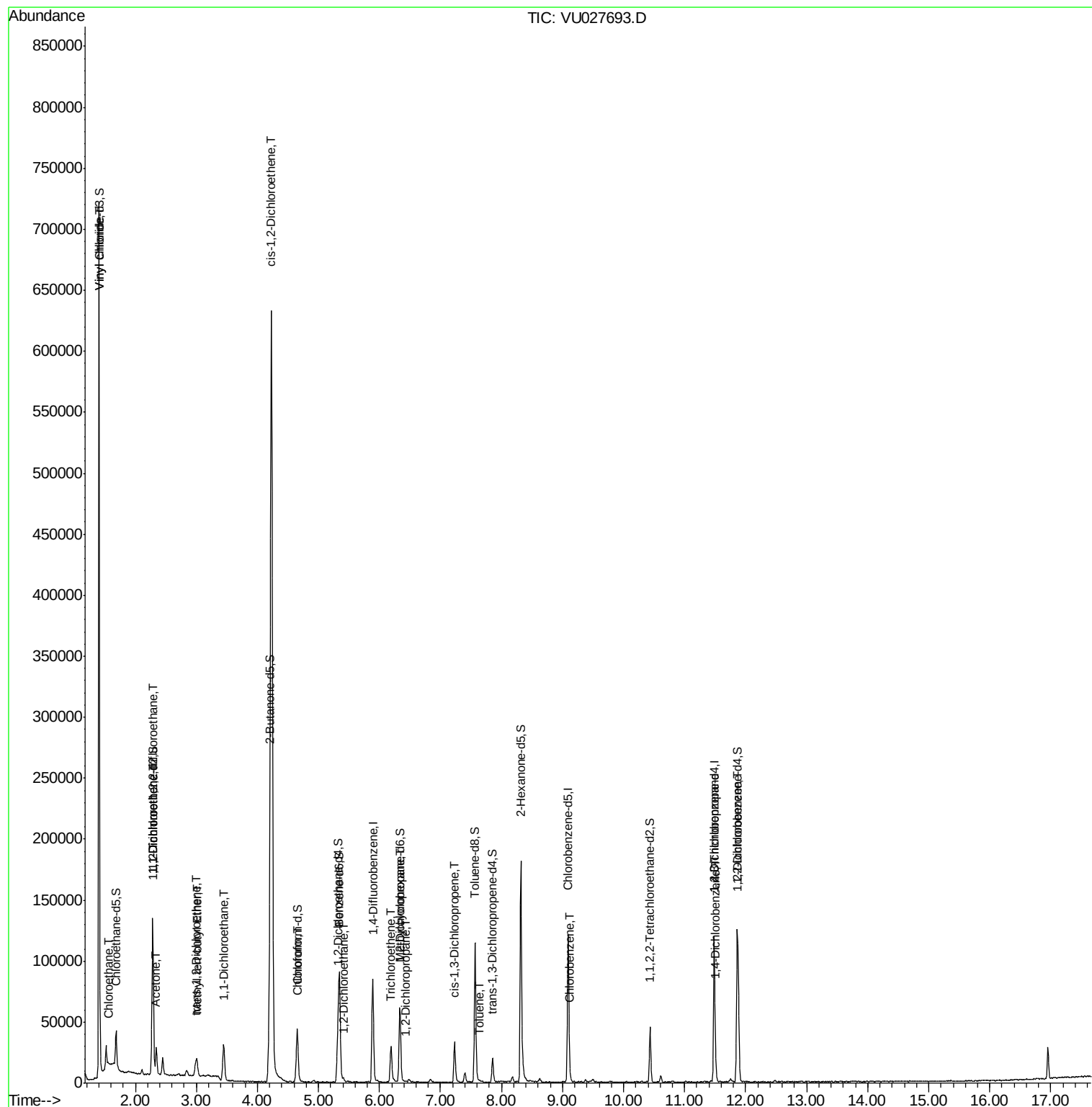
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
59) 1,2,3-Trichloropropane	11.48	75	4824	1.345	ug/L	91
63) 1,4-Dichlorobenzene	11.51	146	4418	0.418	ug/L	92
65) 1,2-Dichlorobenzene	11.88	146	30052	2.968	ug/L	97

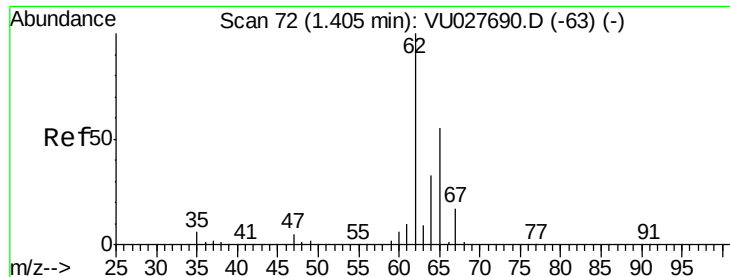
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 63.766 ug/L

RT: 1.40 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU027693.D

Acq: 18 Oct 2018 12:51

Instrument :

MSVOA_U

ClientSampleId :

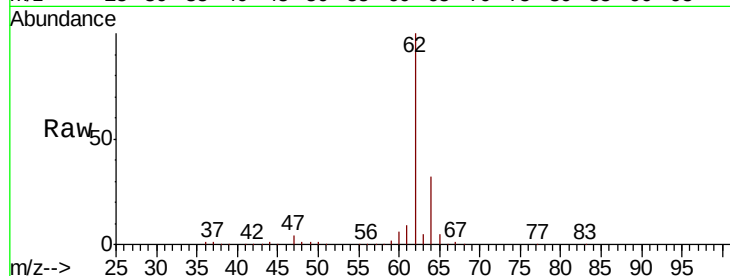
C0JB8

Tgt Ion: 62 Resp: 447339

Ion Ratio Lower Upper

62 100

64 31.9 22.9 42.5



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0

1.40

400000

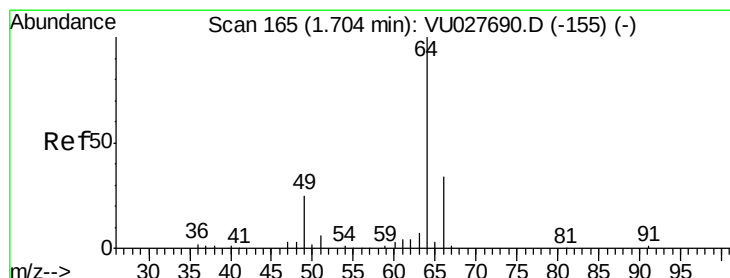
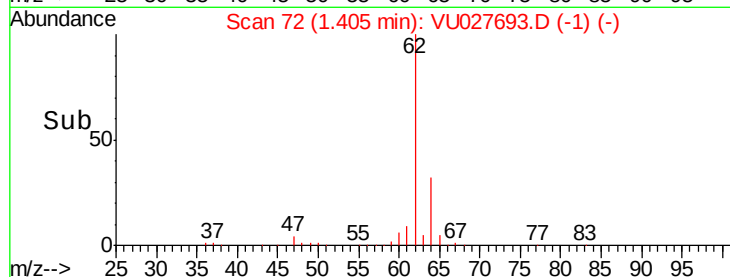
300000

200000

100000

0

Time-->



#8

Chloroethane

Concen: 6.547 ug/L

RT: 1.57 min Scan# 124

Delta R.T. -0.13 min

Lab File: VU027693.D

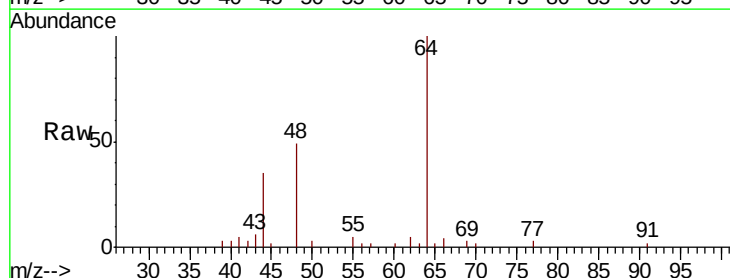
Acq: 18 Oct 2018 12:51

Tgt Ion: 64 Resp: 26476

Ion Ratio Lower Upper

64 100

66 4.4 23.5 43.7#



Abundance Ion 64.10 (63.80 to 64.80): VU0

Ion 66.05 (65.75 to 66.75): VU0

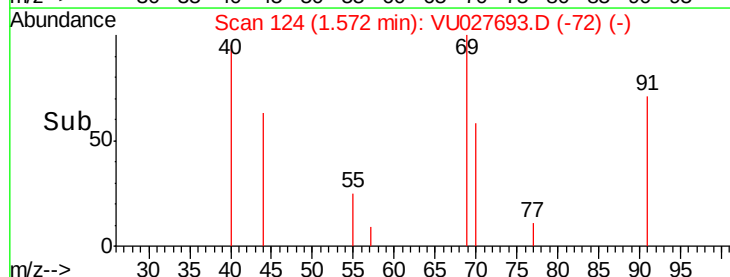
150000

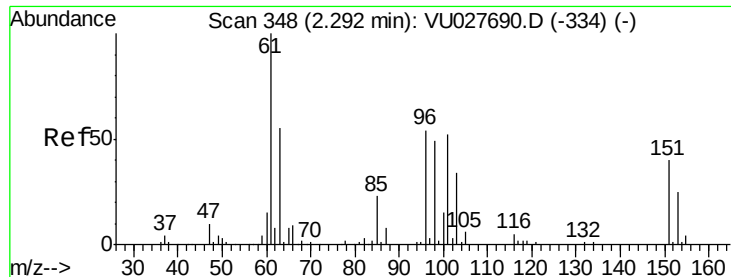
100000

50000

0

Time-->





#10

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

Concen: 0.045 ug/L

RT: 2.27 min Scan# 342

Delta R.T. -0.02 min

Lab File: VU027693.D

Acq: 18 Oct 2018 12:51

Instrument :

MSVOA_U

ClientSampleId :

C0JB8

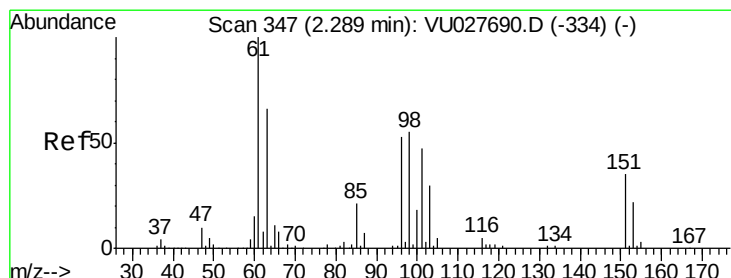
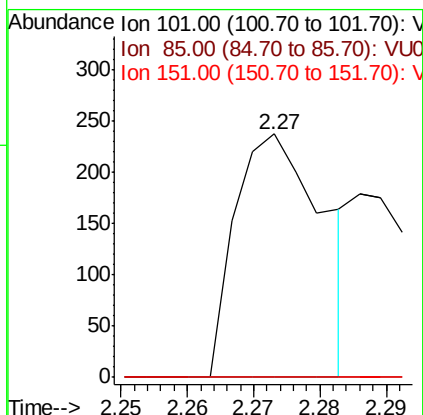
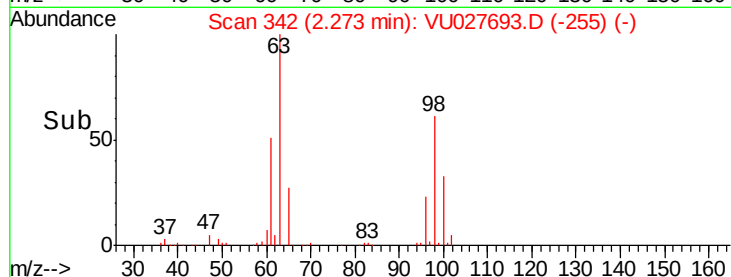
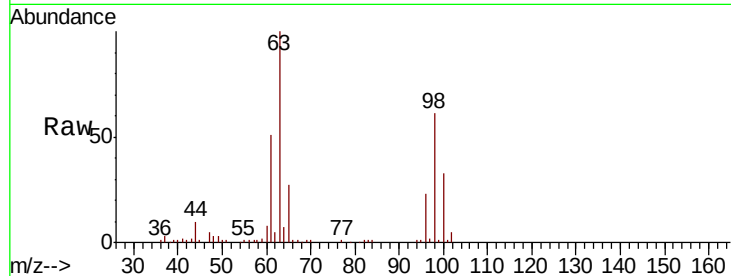
Tgt Ion: 101 Resp: 219

Ion Ratio Lower Upper

101 100

85 47.0 35.6 53.4

151 0.0 63.8 95.6#



#12

1,1-Dichloroethene

Concen: 6.440 ug/L

RT: 2.29 min Scan# 347

Delta R.T. 0.00 min

Lab File: VU027693.D

Acq: 18 Oct 2018 12:51

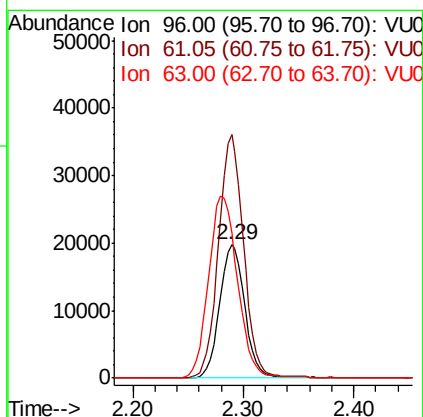
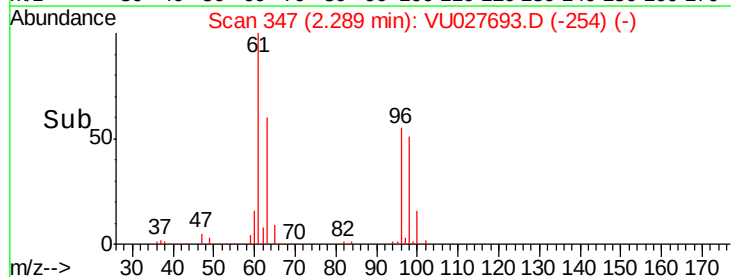
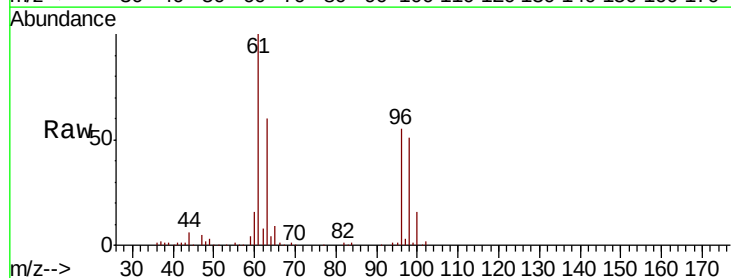
Tgt Ion: 96 Resp: 31330

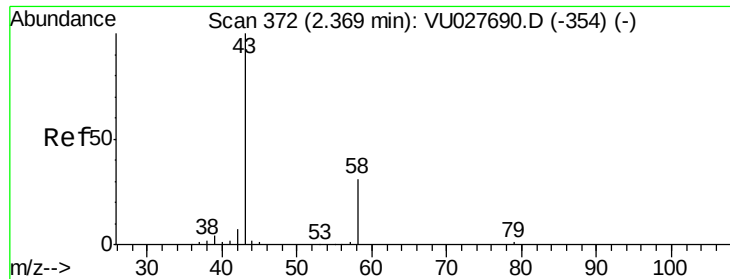
Ion Ratio Lower Upper

96 100

61 182.4 125.6 233.2

63 108.8 97.6 181.2





#13

Acetone

Concen: 2.850 ug/L

RT: 2.33 min Scan# 359

Delta R.T. -0.04 min

Lab File: VU027693.D

Acq: 18 Oct 2018 12:51

Instrument :

MSVOA_U

ClientSampleId :

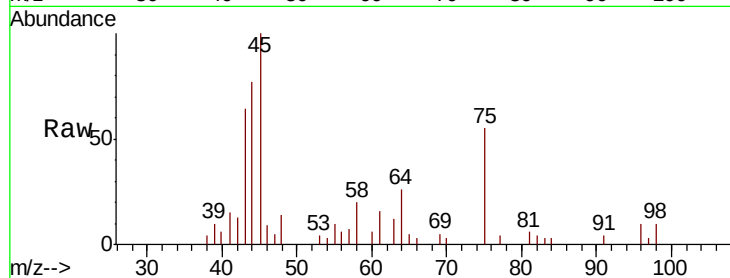
C0JB8

Tgt Ion: 43 Resp: 2961

Ion Ratio Lower Upper

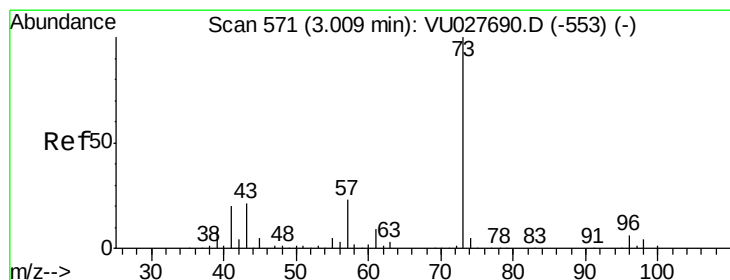
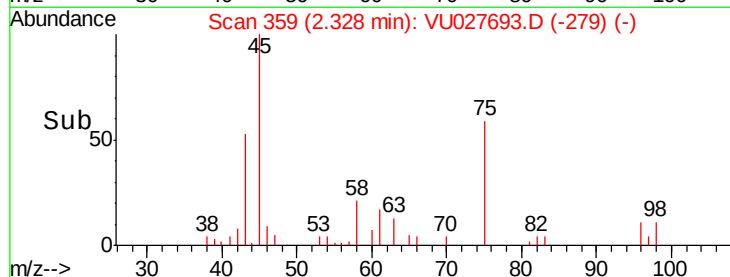
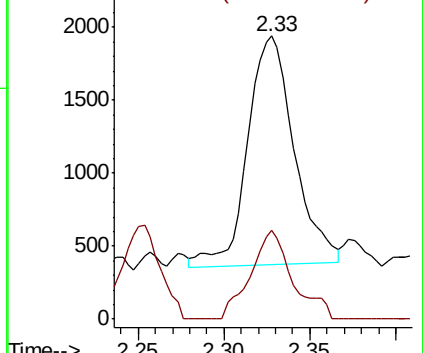
43 100

58 35.1 0.0 66.4



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0



#17

Methyl tert-butyl Ether

Concen: 1.040 ug/L

RT: 3.01 min Scan# 571

Delta R.T. 0.00 min

Lab File: VU027693.D

Acq: 18 Oct 2018 12:51

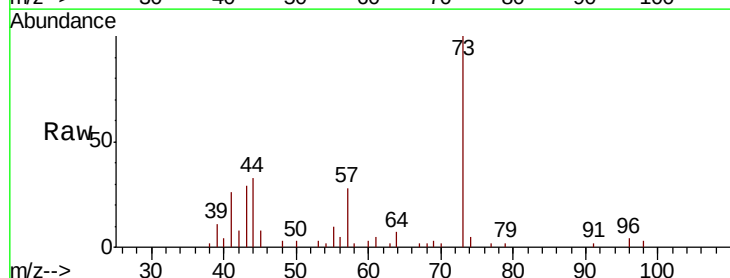
Tgt Ion: 73 Resp: 13984

Ion Ratio Lower Upper

73 100

43 23.8 15.8 23.8#

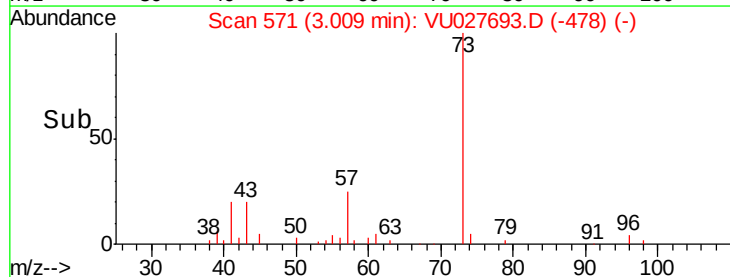
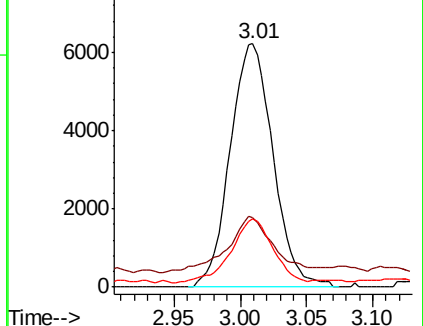
57 25.2 18.7 28.1

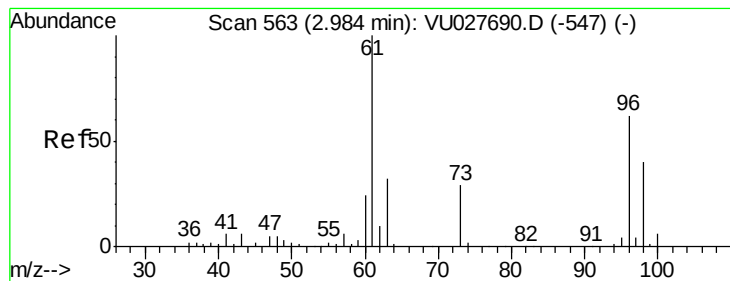


Abundance Ion 73.10 (72.80 to 73.80): VU0

Ion 43.05 (42.75 to 43.75): VU0

Ion 57.10 (56.80 to 57.80): VU0





#18

trans-1,2-Dichloroethene

Concen: 0.541 ug/L

RT: 2.98 min Scan# 563

Delta R.T. 0.00 min

Lab File: VU027693.D

Acq: 18 Oct 2018 12:51

Instrument :

MSVOA_U

ClientSampleId :

C0JB8

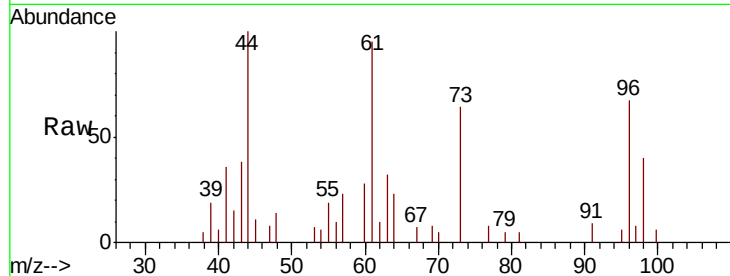
Tgt Ion: 96 Resp: 2800

Ion Ratio Lower Upper

96 100

61 142.7 105.8 196.4

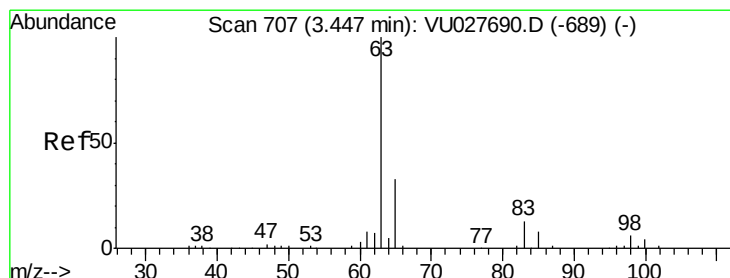
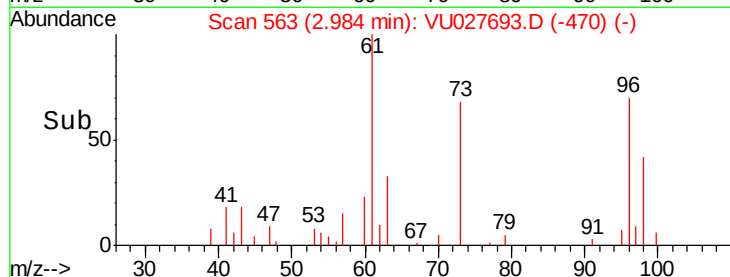
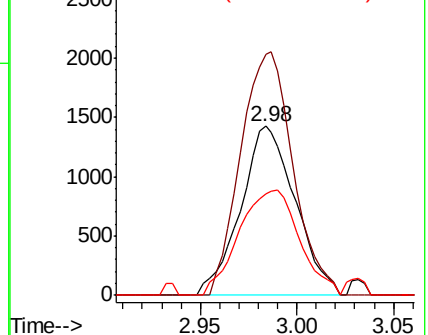
98 60.0 43.6 81.0



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 97.95 (97.65 to 98.65): VU0



#19

1,1-Dichloroethane

Concen: 3.218 ug/L

RT: 3.45 min Scan# 707

Delta R.T. 0.00 min

Lab File: VU027693.D

Acq: 18 Oct 2018 12:51

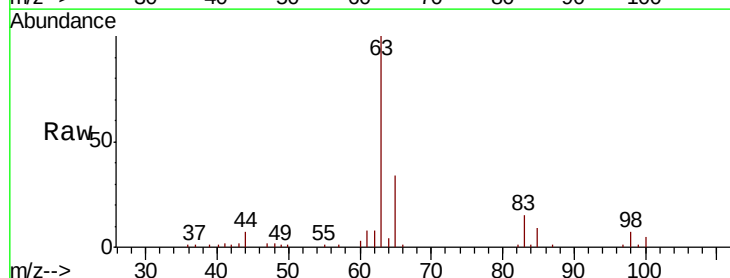
Tgt Ion: 63 Resp: 33130

Ion Ratio Lower Upper

63 100

65 33.5 22.3 41.3

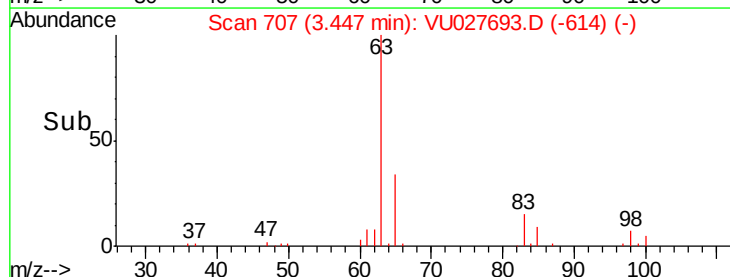
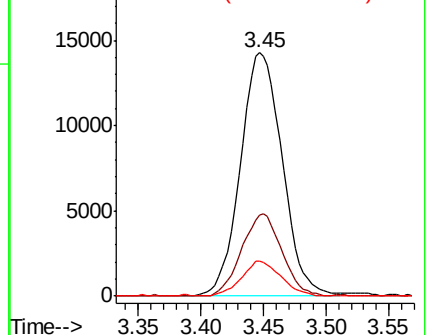
83 14.5 9.7 17.9

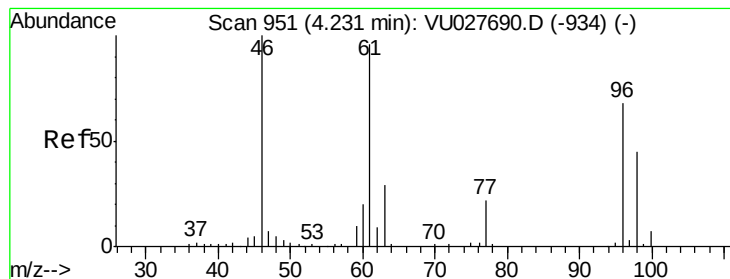


Abundance Ion 63.10 (62.80 to 63.80): VU0

Ion 65.10 (64.80 to 65.80): VU0

Ion 83.05 (82.75 to 83.75): VU0





#22

cis-1,2-Dichloroethene

Concen: 56.316 ug/L

RT: 4.23 min Scan# 950

Delta R.T. -0.00 min

Lab File: VU027693.D

Acq: 18 Oct 2018 12:51

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MSVOA_U

ClientSampleId :

C0JB8

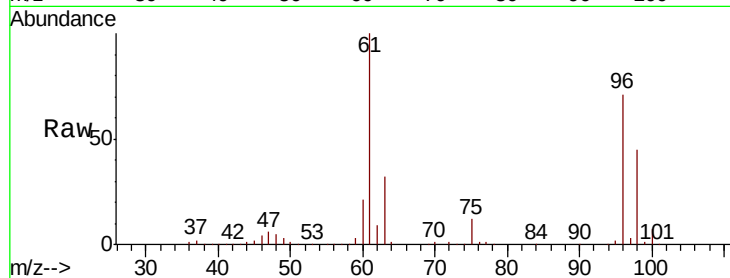
Tgt Ion: 96 Resp: 322375

Ion Ratio Lower Upper

96 100

61 141.2 95.3 176.9

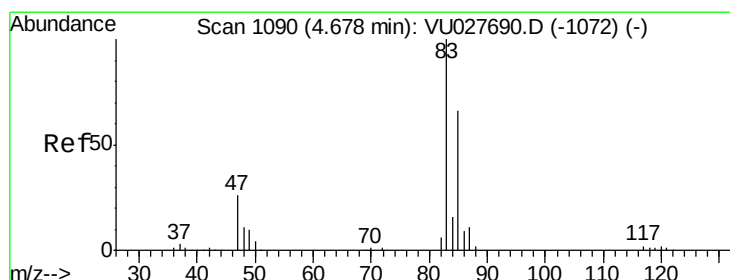
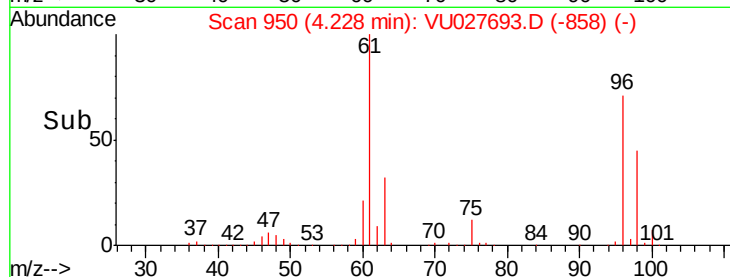
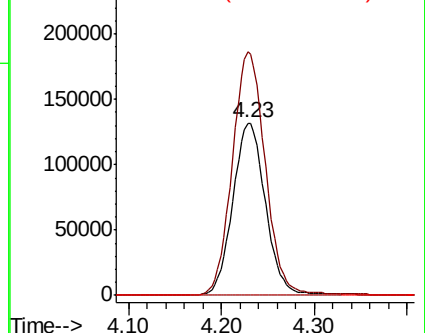
68 0.0 1.1 2.1#



Abundance Ion 96.00 (95.70 to 96.70): VU027693.D (-934) (-)

Ion 61.05 (60.75 to 61.75): VU027693.D (-934) (-)

Ion 68.15 (67.85 to 68.85): VU027693.D (-934) (-)



#25

Chloroform

Concen: 0.048 ug/L

RT: 4.67 min Scan# 1088

Delta R.T. -0.01 min

Lab File: VU027693.D

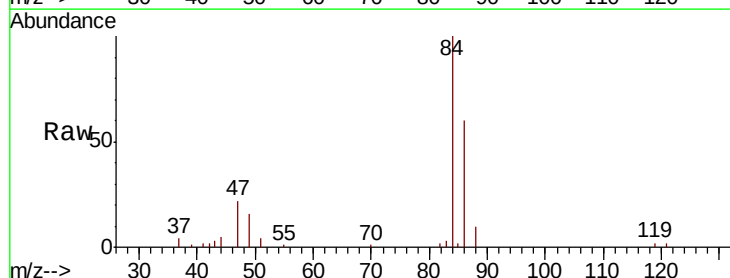
Acq: 18 Oct 2018 12:51

Tgt Ion: 83 Resp: 473

Ion Ratio Lower Upper

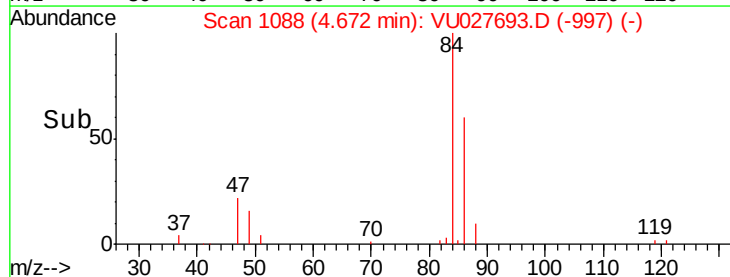
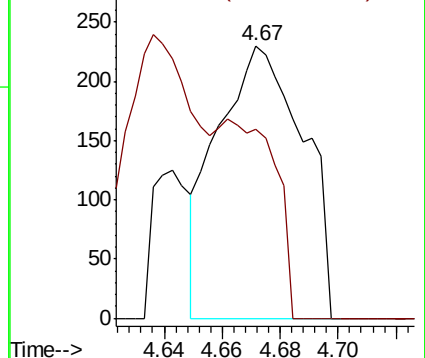
83 100

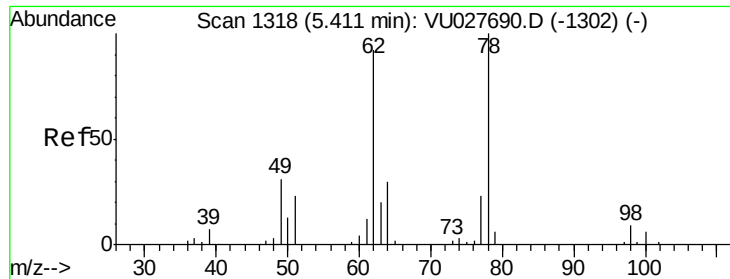
85 69.6 46.1 85.7



Abundance Ion 83.05 (82.75 to 83.75): VU027693.D (-997) (-)

Ion 85.00 (84.70 to 85.70): VU027693.D (-997) (-)





#27

1,2-Dichloroethane

Concen: 0.252 ug/L

RT: 5.41 min Scan# 1319

Delta R.T. 0.00 min

Lab File: VU027693.D

Acq: 18 Oct 2018 12:51

Instrument :

MSVOA_U

ClientSampleId :

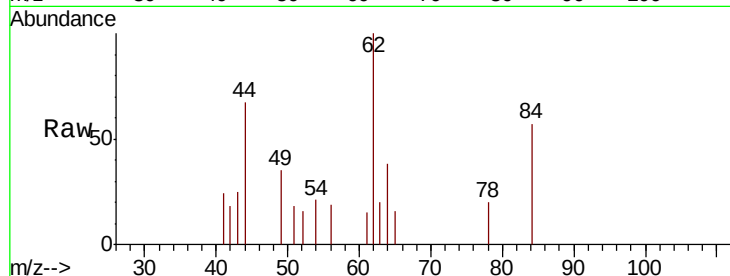
C0JB8

Tgt Ion: 62 Resp: 1584

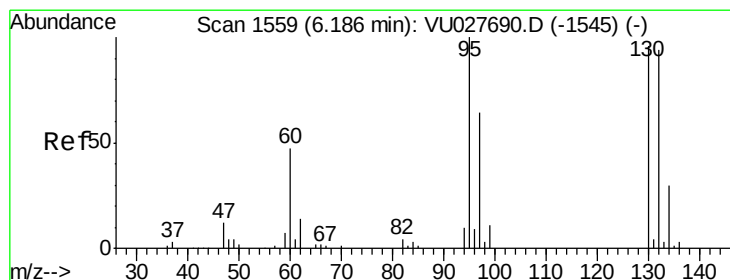
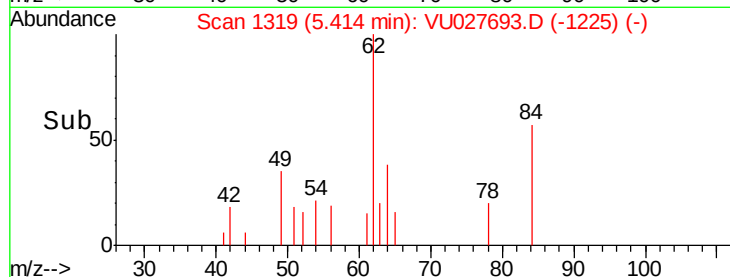
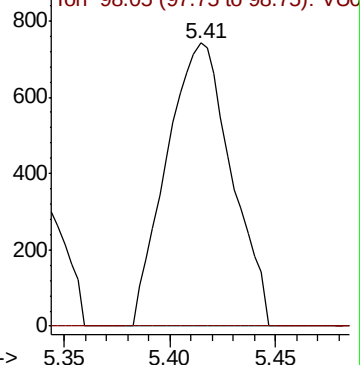
Ion Ratio Lower Upper

62 100

98 0.0 8.4 12.6#



Abundance Ion 62.00 (61.70 to 62.70): VU027693.D (-1225) (-)



#34

Trichloroethene

Concen: 1.875 ug/L

RT: 6.19 min Scan# 1560

Delta R.T. 0.00 min

Lab File: VU027693.D

Acq: 18 Oct 2018 12:51

Tgt Ion: 95 Resp: 10546

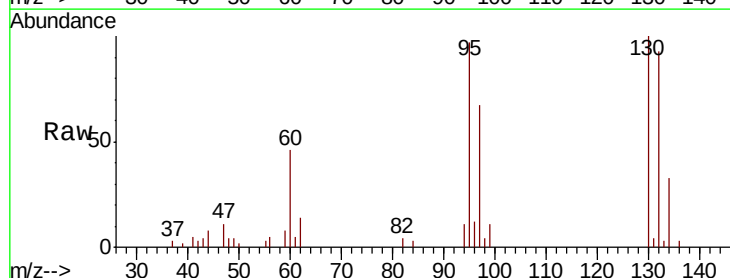
Ion Ratio Lower Upper

95 100

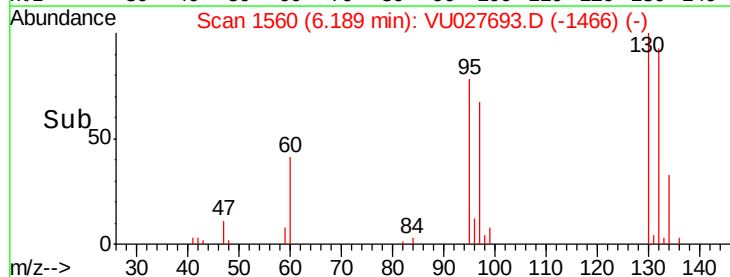
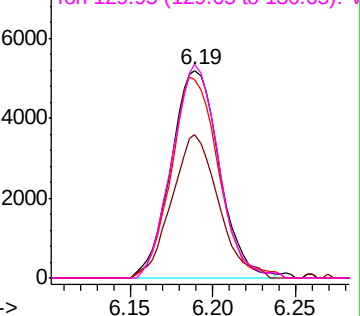
97 69.3 44.7 83.1

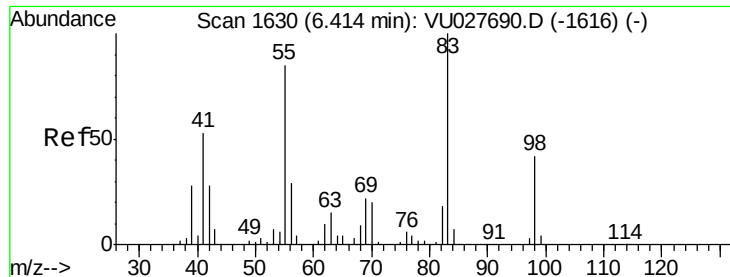
132 95.4 65.9 122.5

130 102.7 67.9 126.1



Abundance Ion 95.00 (94.70 to 95.70): VU027693.D (-1466) (-)

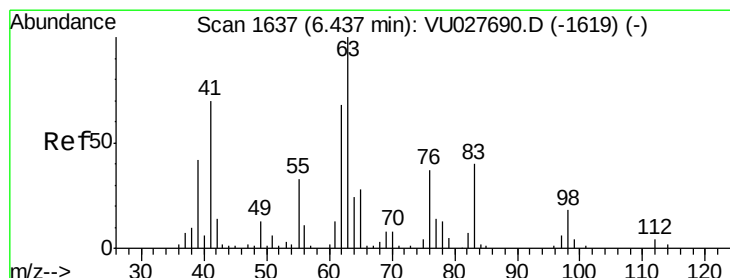
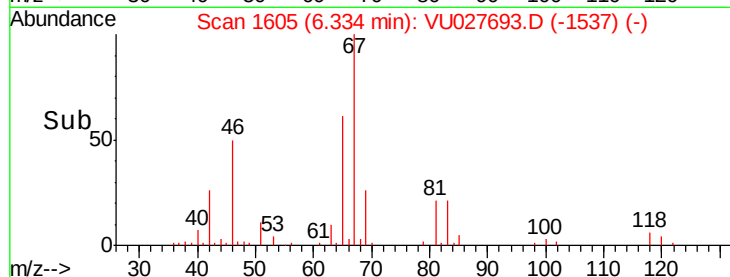
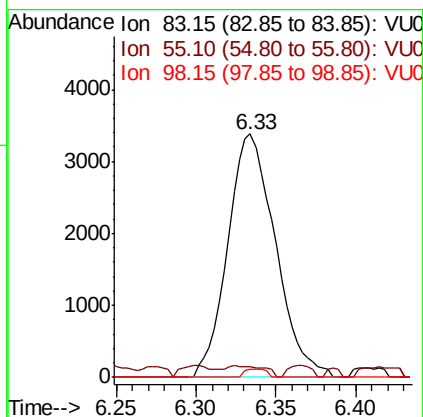
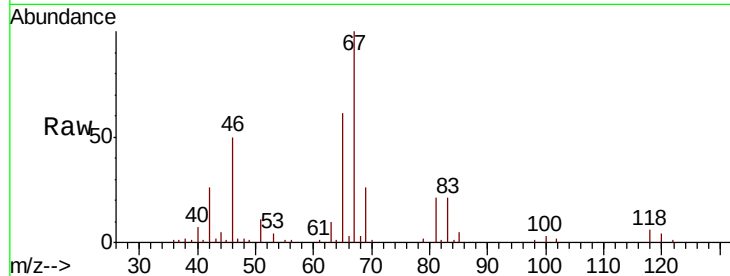




#35
Methylcyclohexane
Concen: 0.710 ug/L
RT: 6.33 min Scan# 1605
Delta R.T. -0.08 min
Lab File: VU027693.D
Acq: 18 Oct 2018 12:51

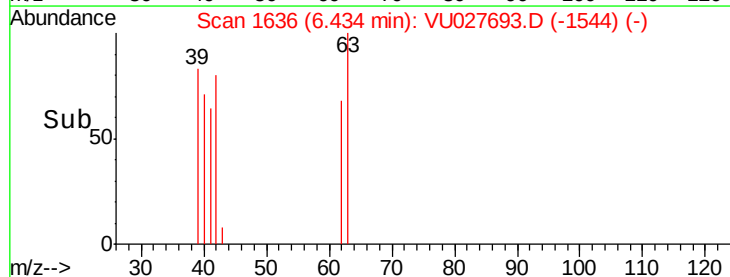
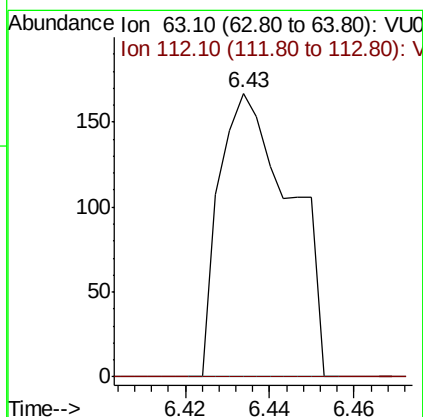
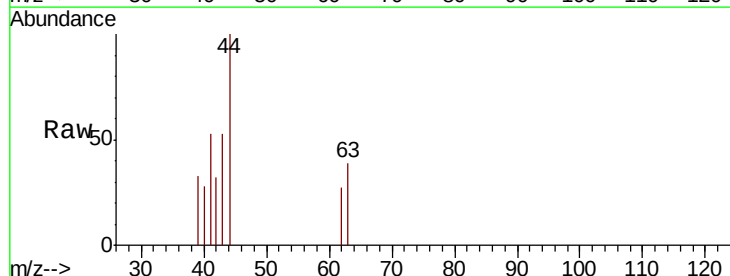
Instrument :
MSVOA_U
ClientSampleId :
C0JB8

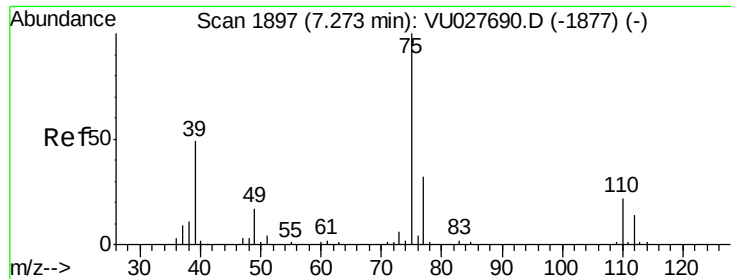
Tgt Ion: 83 Resp: 6879
Ion Ratio Lower Upper
83 100
55 3.9 69.0 103.4#
98 1.6 35.4 53.2#



#37
1,2-Dichloropropane
Concen: 0.031 ug/L
RT: 6.43 min Scan# 1636
Delta R.T. -0.00 min
Lab File: VU027693.D
Acq: 18 Oct 2018 12:51

Tgt Ion: 63 Resp: 195
Ion Ratio Lower Upper
63 100
112 0.0 2.8 4.2#

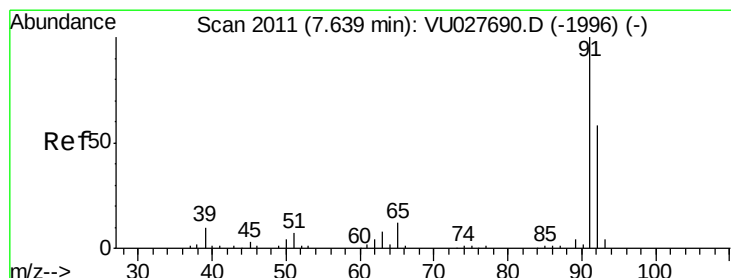
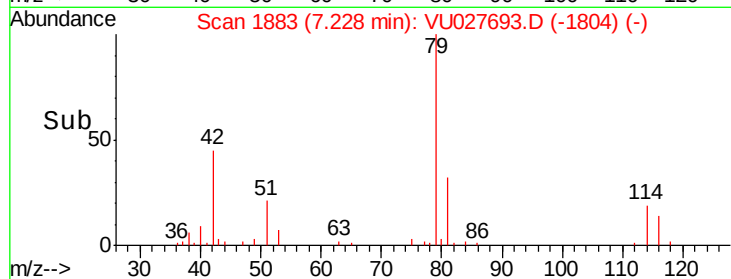
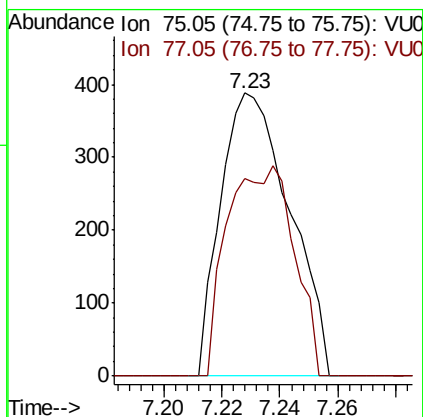
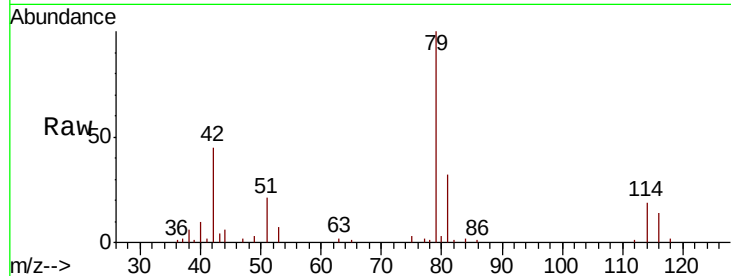




#39
 cis-1,3-Dichloropropene
 Concen: 0.071 ug/L
 RT: 7.23 min Scan# 1883
 Delta R.T. -0.04 min
 Lab File: VU027693.D
 Acq: 18 Oct 2018 12:51

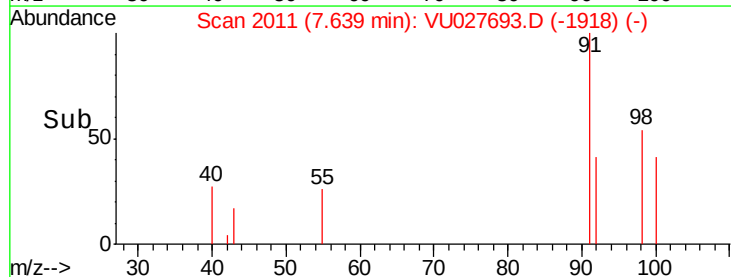
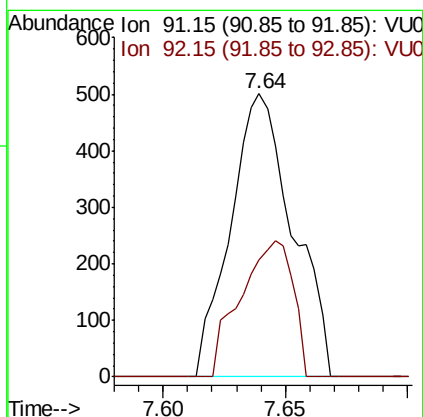
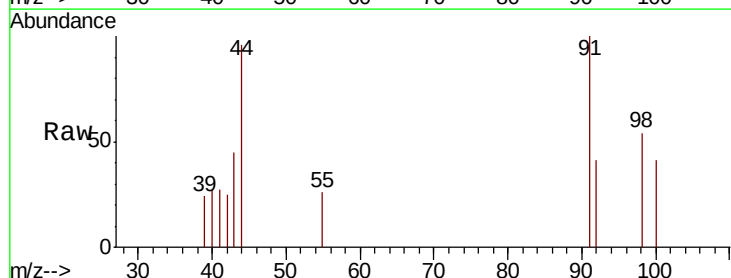
Instrument :
 MSVOA_U
 ClientSampleId :
 C0JB8

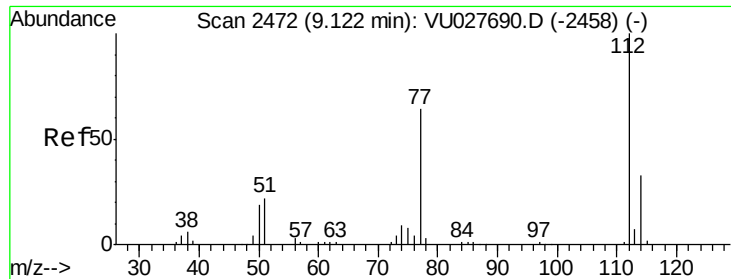
Tgt Ion: 75 Resp: 642
 Ion Ratio Lower Upper
 75 100
 77 69.8 22.2 41.2#



#42
 Toluene
 Concen: 0.038 ug/L
 RT: 7.64 min Scan# 2011
 Delta R.T. 0.00 min
 Lab File: VU027693.D
 Acq: 18 Oct 2018 12:51

Tgt Ion: 91 Resp: 886
 Ion Ratio Lower Upper
 91 100
 92 41.1 41.1 76.3

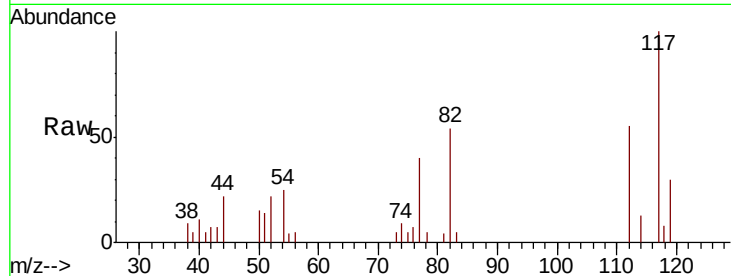




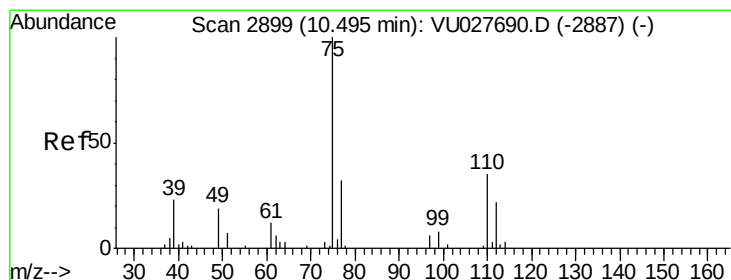
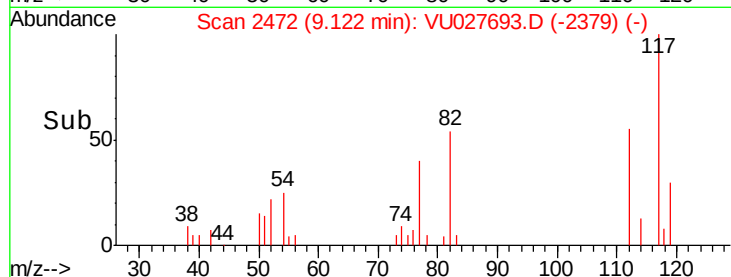
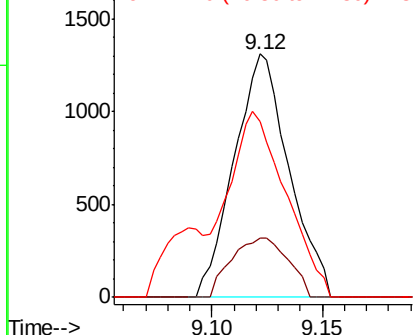
#51
Chlorobenzene
Concen: 0.158 ug/L
RT: 9.12 min Scan# 2472
Delta R.T. 0.00 min
Lab File: VU027693.D
Acq: 18 Oct 2018 12:51

Instrument :
MSVOA_U
ClientSampleId :
C0JB8

Tgt Ion: 112 Resp: 2261
Ion Ratio Lower Upper
112 100
114 24.3 23.4 43.6
77 72.1 49.5 74.3

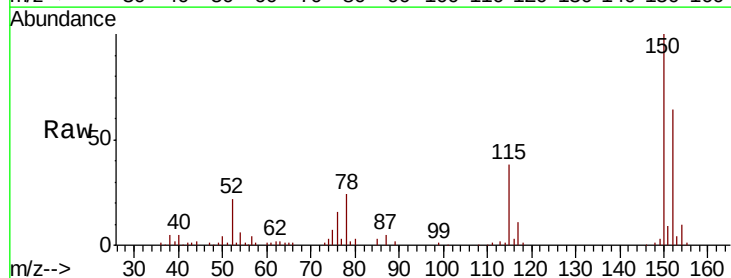


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): VU0

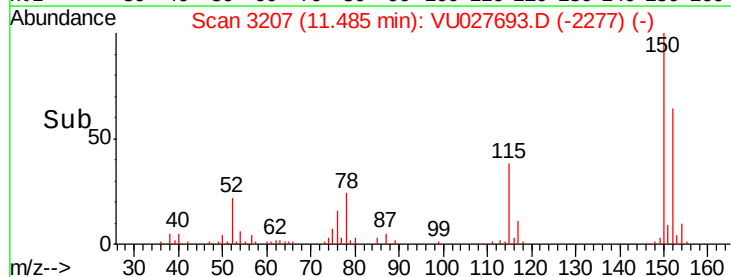
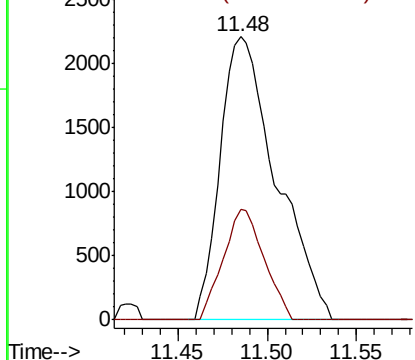


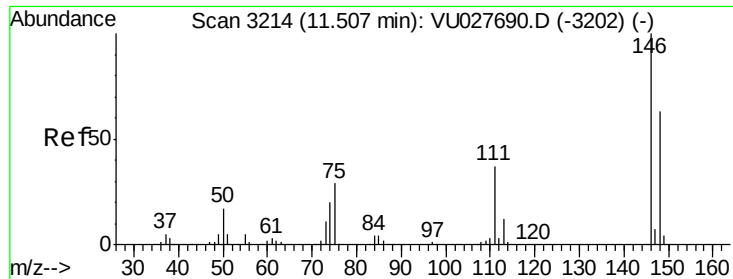
#59
1,2,3-Trichloropropane
Concen: 1.345 ug/L
RT: 11.48 min Scan# 3207
Delta R.T. 0.99 min
Lab File: VU027693.D
Acq: 18 Oct 2018 12:51

Tgt Ion: 75 Resp: 4824
Ion Ratio Lower Upper
75 100
77 28.5 26.9 40.3



Abundance Ion 75.00 (74.70 to 75.70): VU0
Ion 77.00 (76.70 to 77.70): VU0

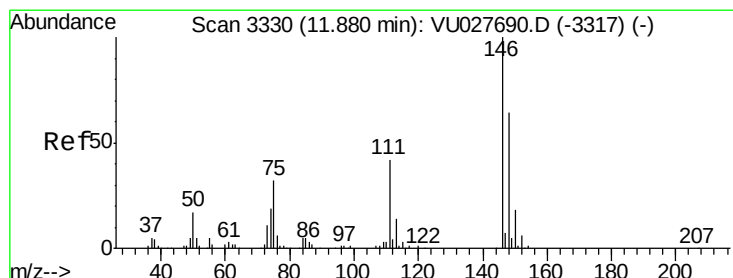
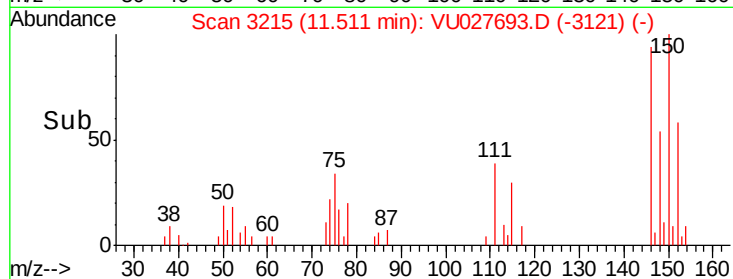
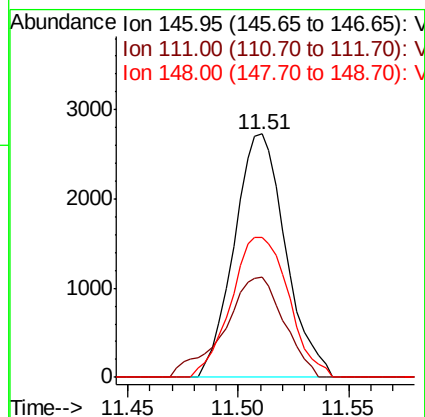
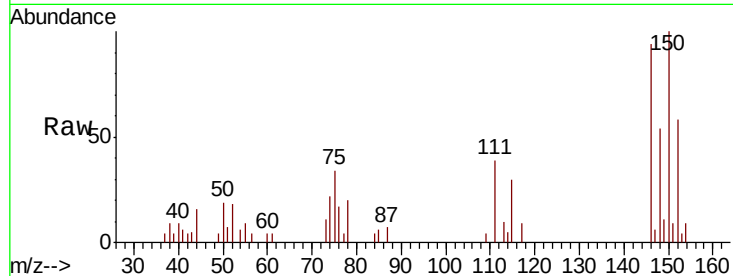




#63
 1,4-Dichlorobenzene
 Concen: 0.418 ug/L
 RT: 11.51 min Scan# 3215
 Delta R.T. 0.00 min
 Lab File: VU027693.D
 Acq: 18 Oct 2018 12:51

Instrument :
 MSVOA_U
 ClientSampleId :
 C0JB8

Tgt Ion:146 Resp: 4418
 Ion Ratio Lower Upper
 146 100
 111 41.0 26.5 49.1
 148 57.3 45.2 84.0



#65
 1,2-Dichlorobenzene
 Concen: 2.968 ug/L
 RT: 11.88 min Scan# 3330
 Delta R.T. 0.00 min
 Lab File: VU027693.D
 Acq: 18 Oct 2018 12:51

Tgt Ion:146 Resp: 30052
 Ion Ratio Lower Upper
 146 100
 111 42.3 31.7 47.5
 148 64.6 50.6 75.8

