

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U101920\
 Data File : VU040827.D
 Acq On : 20 Oct 2020 00:37
 Operator : SY/MD
 Sample : L4420-12
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 C0AK5

Quant Time: Oct 20 05:20:56 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR100820WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Oct 20 05:12:18 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	108793	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	113765	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	45772	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	24860	2.76	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	55.20%
7) Chloroethane-d5	1.92	69	27629	3.97	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	79.40%
11) 1,1-Dichloroethene-d2	2.58	63	45427	2.58	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	51.60%#
20) 2-Butanone-d5	4.66	46	167004	57.89	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	115.78%
24) Chloroform-d	5.08	84	76598	4.84	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.80%
26) 1,2-Dichloroethane-d4	5.72	65	49214	5.11	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.20%
32) Benzene-d6	5.75	84	127819	4.17	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	83.40%
36) 1,2-Dichloropropane-d6	6.70	67	48521	4.76	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	95.20%
41) Toluene-d8	7.91	98	91506	3.33	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	66.60%#
43) trans-1,3-Dichloropropene-	8.19	79	17410	4.03	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	80.60%
46) 2-Hexanone-d5	8.64	63	112213	50.46	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	100.92%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	46457	5.08	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	101.60%
64) 1,2-Dichlorobenzene-d4	12.19	152	43392	5.11	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	102.20%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.39	85	779	0.079	ug/L	91
3) Chloromethane	1.53	50	1245	0.135	ug/L #	81
8) Chloroethane	1.94	64	227	0.037	ug/L #	53
9) Trichlorofluoromethane	2.15	101	2872	0.206	ug/L	90
12) 1,1-Dichloroethene	2.59	96	2399	0.309	ug/L #	1
17) Methyl tert-butyl Ether	3.39	73	1688	0.077	ug/L	97
19) 1,1-Dichloroethane	3.89	63	2926	0.174	ug/L #	95
22) cis-1,2-Dichloroethene	4.68	96	1826	0.208	ug/L	87
25) Chloroform	5.10	83	5088	0.297	ug/L	95
27) 1,2-Dichloroethane	5.75	62	744	0.061	ug/L #	77
31) Carbon tetrachloride	5.54	117	3899	0.298	ug/L	96
34) Trichloroethene	6.55	95	13638	1.440	ug/L	95
35) Methylcyclohexane	6.70	83	11288	0.840	ug/L #	14
37) 1,2-Dichloropropane	6.70	63	5232	0.514	ug/L #	87
39) cis-1,3-Dichloropropene	7.58	75	1213	0.087	ug/L #	47
42) Toluene	7.97	91	1758	0.047	ug/L	92
44) trans-1,3-Dichloropropene	8.19	75	779	0.061	ug/L	96

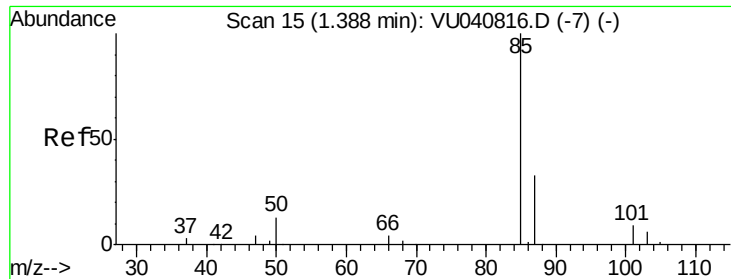
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU101920\
Data File : VU040827.D
Acq On : 20 Oct 2020 00:37
Operator : SY/MD
Sample : L4420-12
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
C0AK5

Quant Time: Oct 20 05:20:56 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR100820WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 20 05:12:18 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
47) Tetrachloroethene	8.56	164	17730	2.623	ug/L	95
48) 2-Hexanone	8.64	43	15523	2.568	ug/L #	71
49) Dibromochloromethane	8.56	129	16933	1.930	ug/L #	9
59) 1,2,3-Trichloropropane	11.81	75	5931	0.793	ug/L	95

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



#2

Dichlorodifluoromethane

Concen: 0.079 ug/L

RT: 1.39 min Scan# 16

Delta R.T. 0.00 min

Lab File: VU040827.D

Acq: 20 Oct 2020 00:37

Instrument :

MSVOA_U

ClientSampleId :

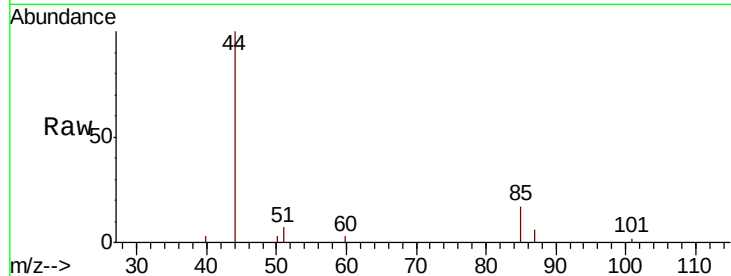
C0AK5

Tot Ion: 85 Resp: 779

Ion Ratio Lower Upper

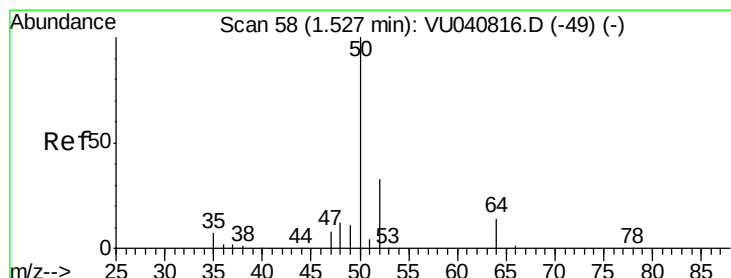
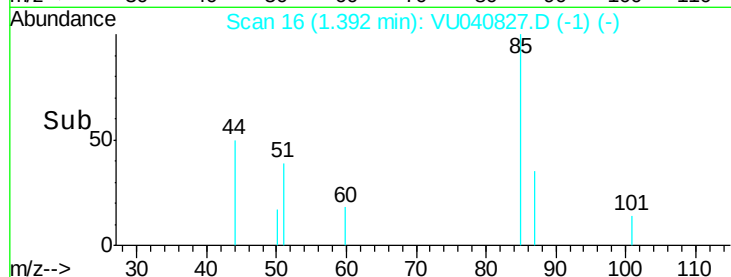
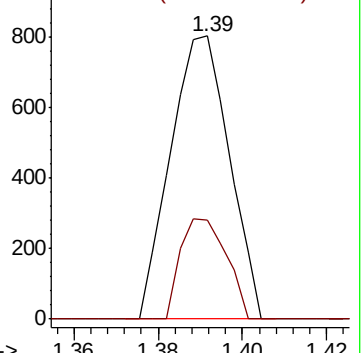
85 100

87 27.9 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 0.135 ug/L

RT: 1.53 min Scan# 58

Delta R.T. 0.00 min

Lab File: VU040827.D

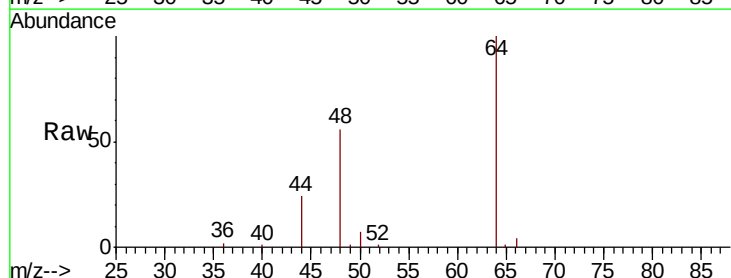
Acq: 20 Oct 2020 00:37

Tgt Ion: 50 Resp: 1245

Ion Ratio Lower Upper

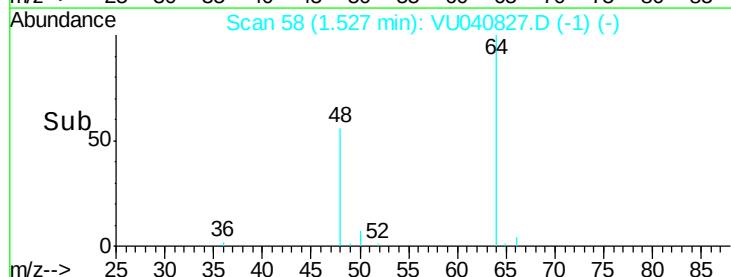
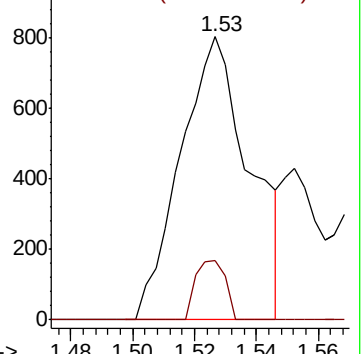
50 100

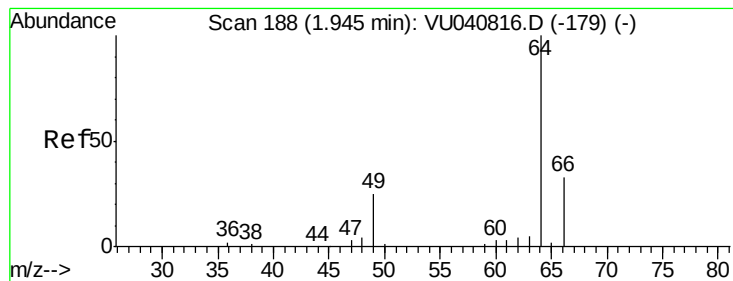
52 21.1 21.9 40.7#



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0





#8

Chloroethane

Concen: 0.037 ug/L

RT: 1.94 min Scan# 187

Delta R.T. -0.00 min

Lab File: VU040827.D

Acq: 20 Oct 2020 00:37

Instrument :

MSVOA_U

ClientSampleId :

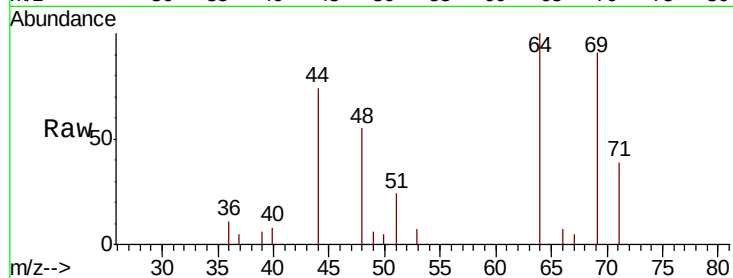
C0AK5

Tot Ion: 64 Resp: 227

Ion Ratio Lower Upper

64 100

66 6.5 23.3 43.3#



Abundance Ion 64.10 (63.80 to 64.80): VU040827.D (-187) (-)

Ion 66.05 (65.75 to 66.75): VU040827.D (-187) (-)

2500

2000

1500

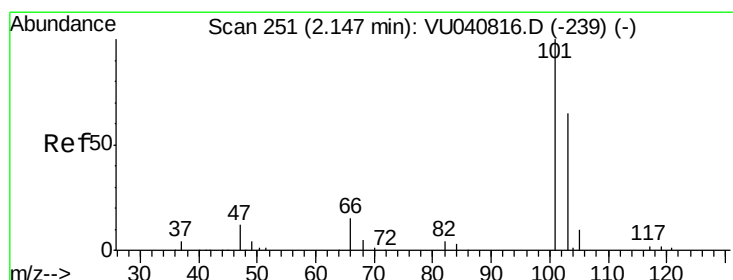
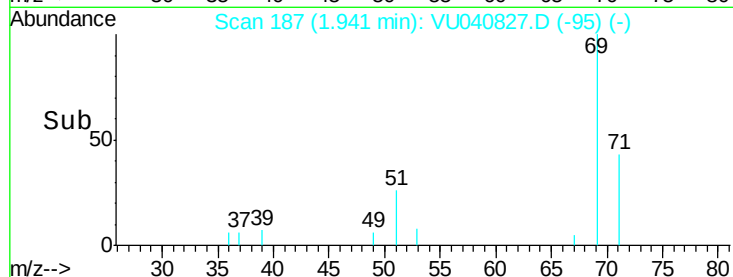
1000

500

0

Time-->

1.92 1.93 1.94 1.95



#9

Trichlorofluoromethane

Concen: 0.206 ug/L

RT: 2.15 min Scan# 251

Delta R.T. 0.00 min

Lab File: VU040827.D

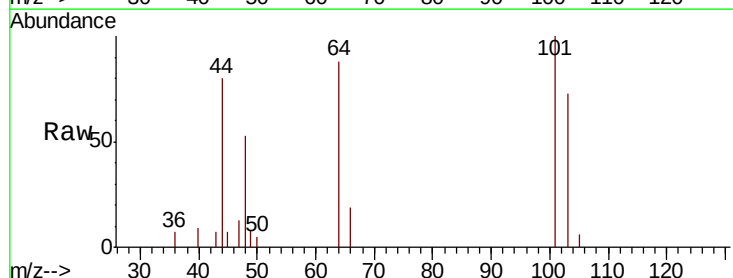
Acq: 20 Oct 2020 00:37

Tgt Ion: 101 Resp: 2872

Ion Ratio Lower Upper

101 100

103 73.6 52.2 78.4



Abundance Ion 101.00 (100.70 to 101.70): VU040827.D (-251) (-)

Ion 103.00 (102.70 to 103.70): VU040827.D (-251) (-)

2000

1500

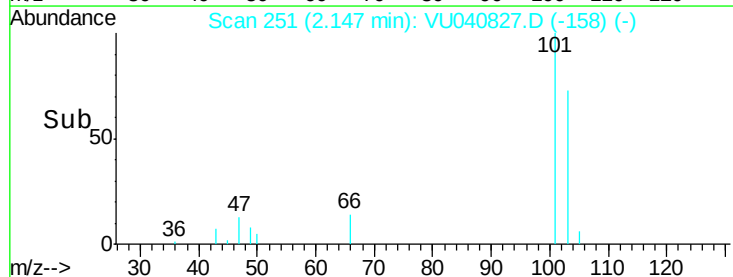
1000

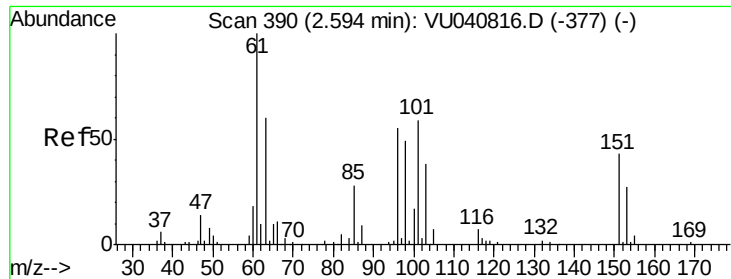
500

0

Time-->

2.10 2.15 2.20

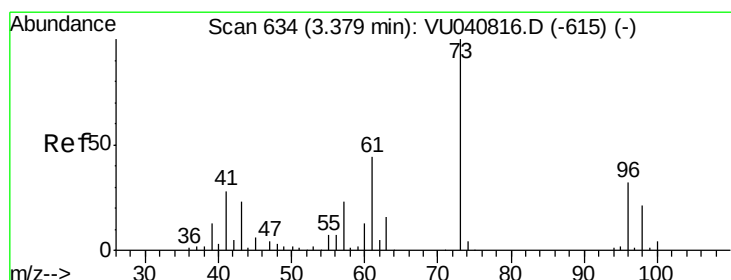
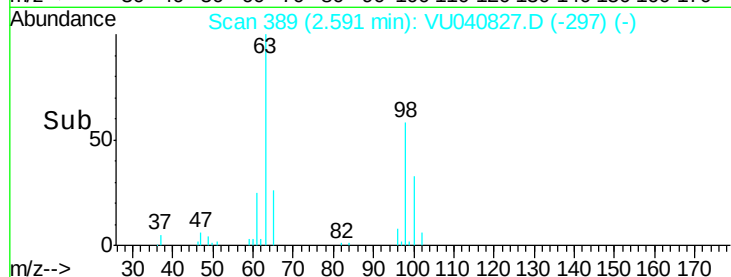
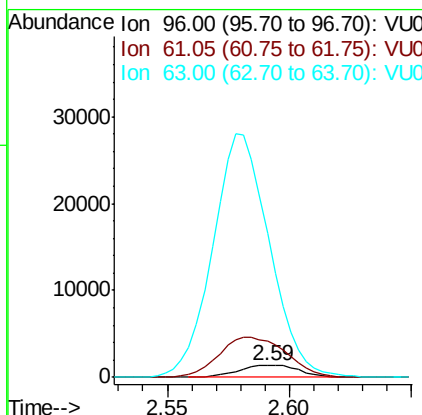
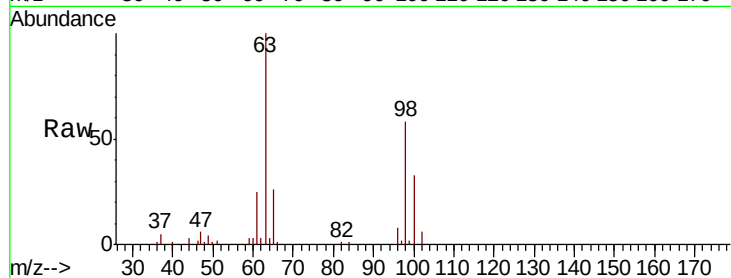




#12
 1,1-Dichloroethene
 Concen: 0.309 ug/L
 RT: 2.59 min Scan# 389
 Delta R.T. -0.00 min
 Lab File: VU040827.D
 Acq: 20 Oct 2020 00:37

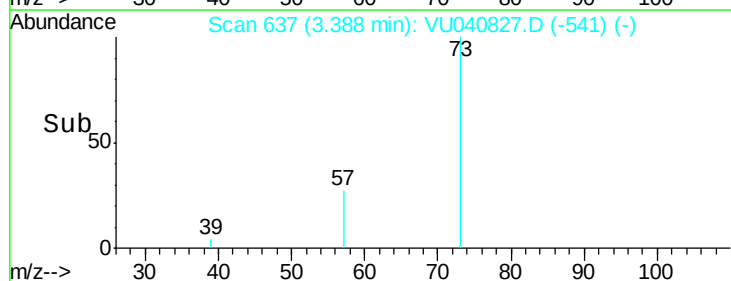
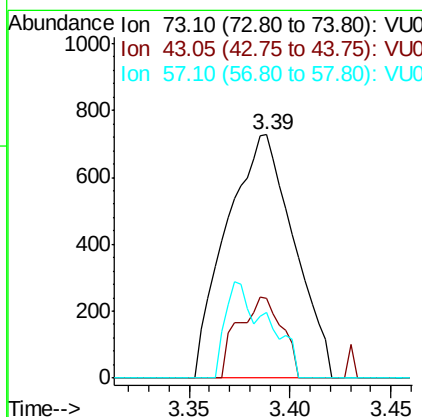
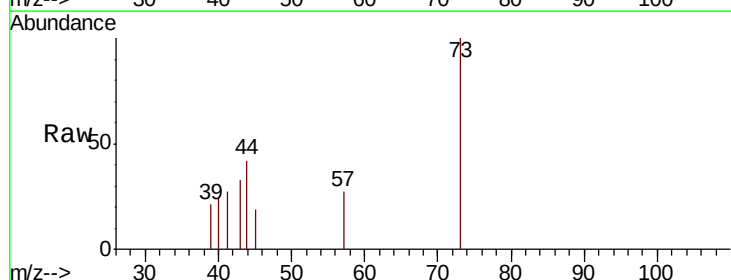
Instrument :
 MSVOA_U
 ClientSampleId :
 C0AK5

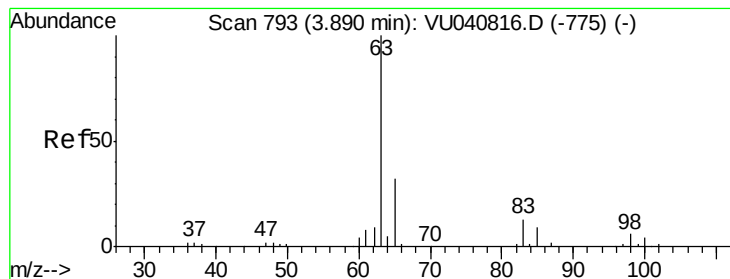
Tot Ion: 96 Resp: 2399
 Ion Ratio Lower Upper
 96 100
 61 304.9 128.8 239.2#
 63 1221.9 84.6 157.2#



#17
 Methyl tert-butyl Ether
 Concen: 0.077 ug/L
 RT: 3.39 min Scan# 637
 Delta R.T. 0.01 min
 Lab File: VU040827.D
 Acq: 20 Oct 2020 00:37

Tgt Ion: 73 Resp: 1688
 Ion Ratio Lower Upper
 73 100
 43 21.7 18.2 27.4
 57 25.0 18.6 28.0





#19

1,1-Dichloroethane

Concen: 0.174 ug/L

RT: 3.89 min Scan# 794

Delta R.T. 0.00 min

Lab File: VU040827.D

Acq: 20 Oct 2020 00:37

Instrument :

MSVOA_U

ClientSampled :

C0AK5

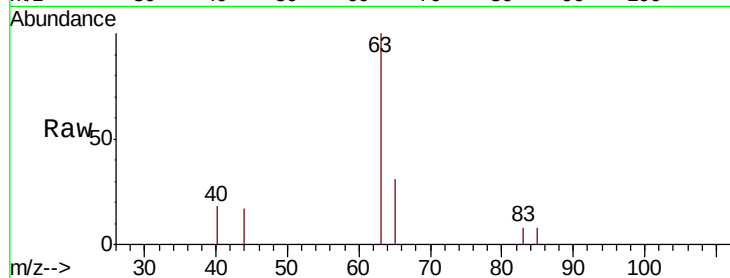
Tot Ion: 63 Resp: 2926

Ion Ratio Lower Upper

63 100

65 30.8 21.9 40.7

83 8.4 9.6 17.8#

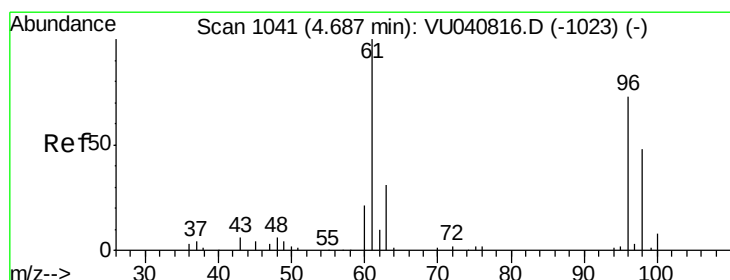
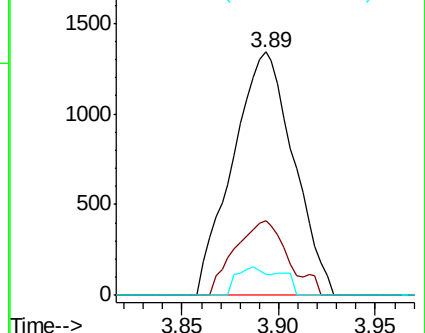
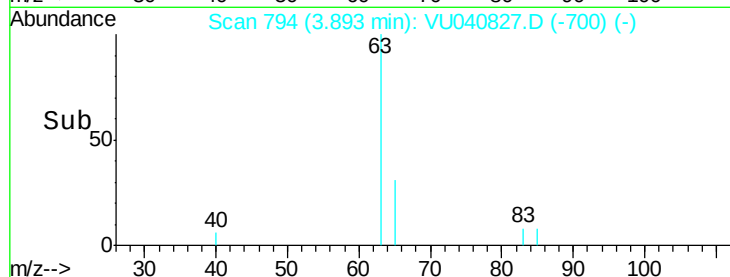


Abundance Ion 63.10 (62.80 to 63.80): VU040827.D (-793) (-)

Ion 65.10 (64.80 to 65.80): VU040827.D (-793) (-)

Ion 83.05 (82.75 to 83.75): VU040827.D (-793) (-)

Time-->



#22

cis-1,2-Dichloroethene

Concen: 0.208 ug/L

RT: 4.68 min Scan# 1040

Delta R.T. -0.00 min

Lab File: VU040827.D

Acq: 20 Oct 2020 00:37

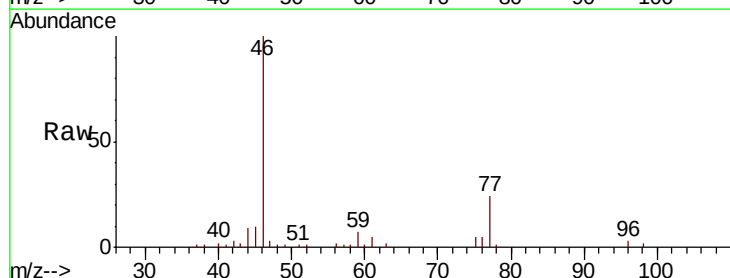
Tgt Ion: 96 Resp: 1826

Ion Ratio Lower Upper

96 100

61 159.2 99.8 185.4

68 0.0 0.0 0.0

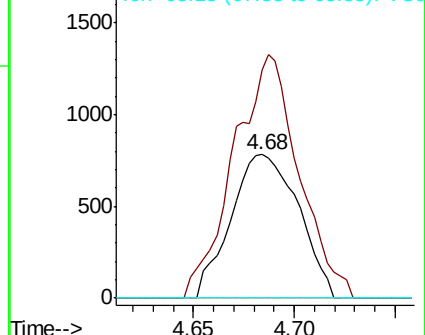
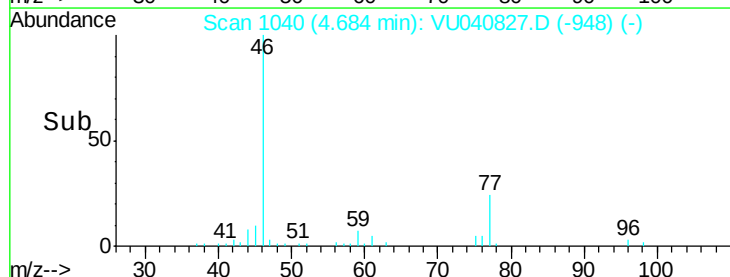


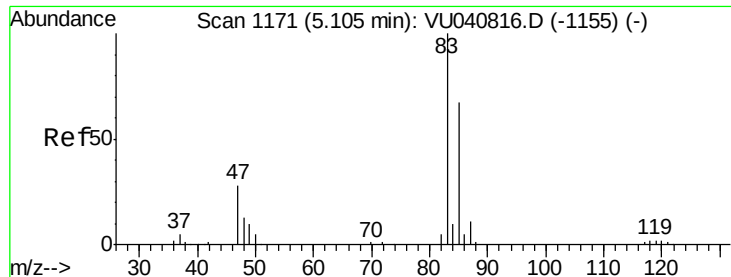
Abundance Ion 96.00 (95.70 to 96.70): VU040827.D (-1041) (-)

Ion 61.05 (60.75 to 61.75): VU040827.D (-1041) (-)

Ion 68.15 (67.85 to 68.85): VU040827.D (-1041) (-)

Time-->

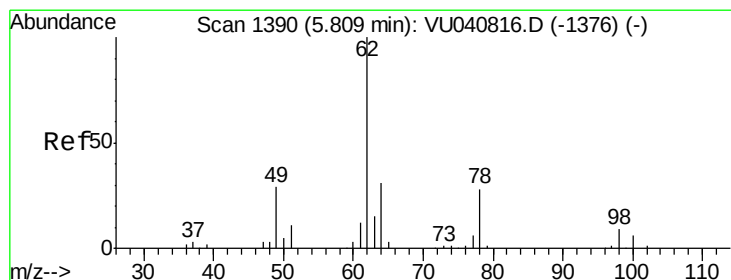
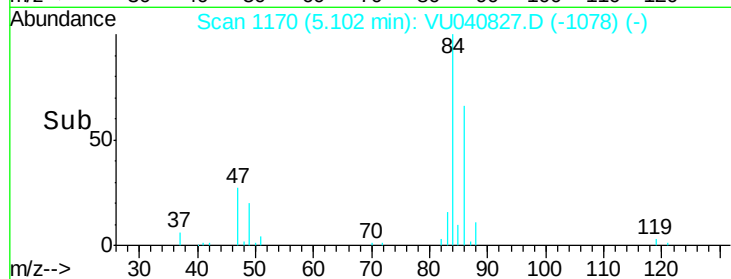
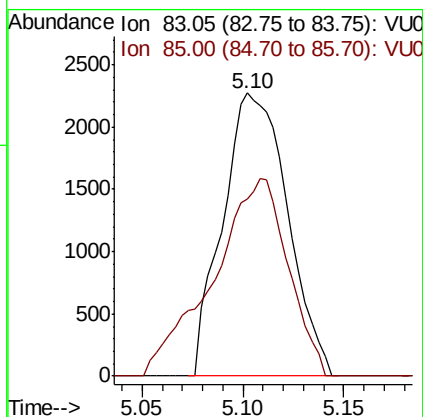
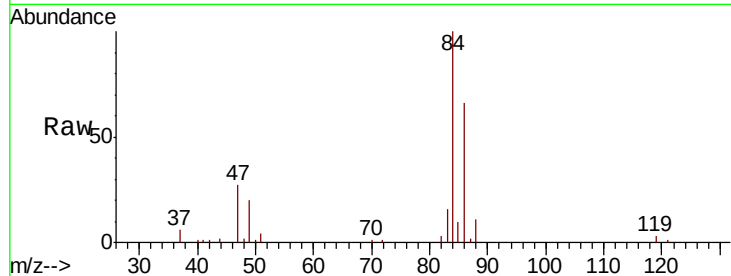




#25
Chloroform
Concen: 0.297 ug/L
RT: 5.10 min Scan# 1170
Delta R.T. -0.00 min
Lab File: VU040827.D
Acq: 20 Oct 2020 00:37

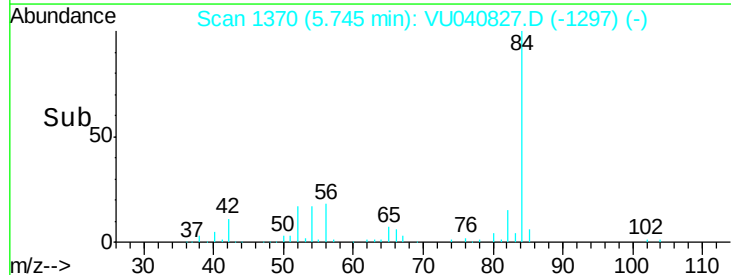
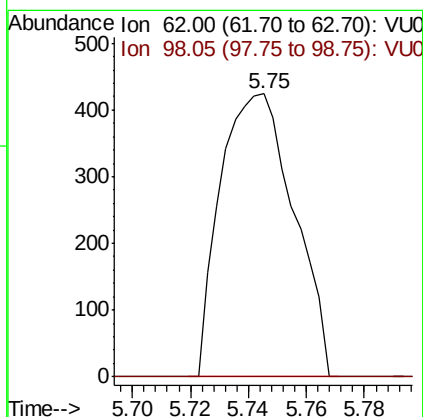
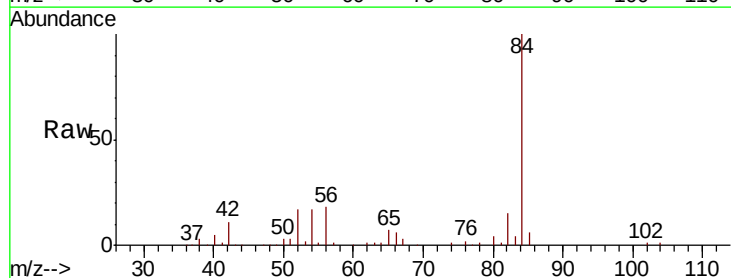
Instrument :
MSVOA_U
ClientSampled :
C0AK5

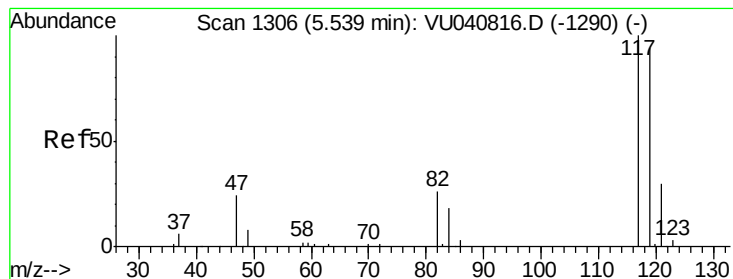
Tot Ion: 83 Resp: 5088
Ion Ratio Lower Upper
83 100
85 62.6 46.5 86.5



#27
1,2-Dichloroethane
Concen: 0.061 ug/L
RT: 5.75 min Scan# 1370
Delta R.T. -0.06 min
Lab File: VU040827.D
Acq: 20 Oct 2020 00:37

Tgt Ion: 62 Resp: 744
Ion Ratio Lower Upper
62 100
98 0.0 6.6 10.0#





#31

Carbon tetrachloride

Concen: 0.298 ug/L

RT: 5.54 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU040827.D

Acq: 20 Oct 2020 00:37

Instrument :

MSVOA_U

ClientSampleId :

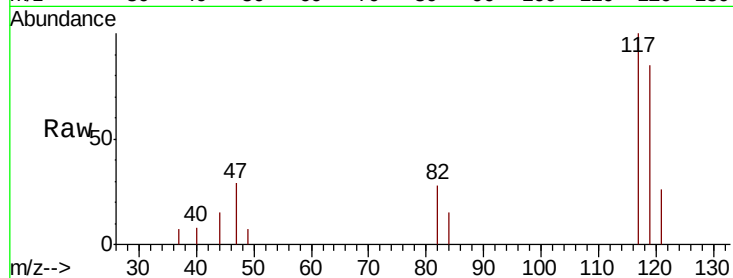
C0AK5

Tot Ion:117 Resp: 3899

Ion Ratio Lower Upper

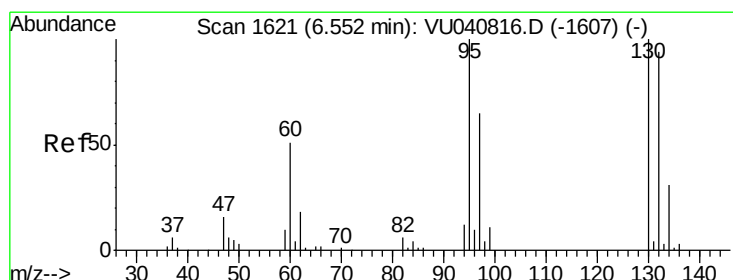
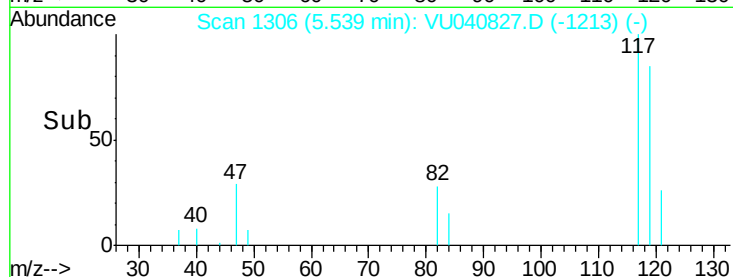
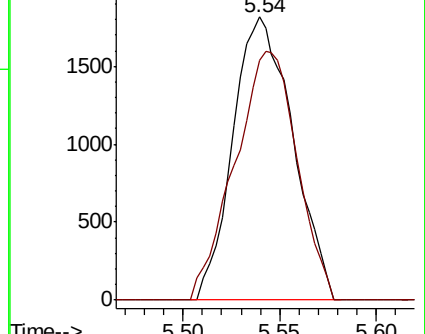
117 100

119 91.6 76.2 114.2



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#34

Trichloroethene

Concen: 1.440 ug/L

RT: 6.55 min Scan# 1621

Delta R.T. 0.00 min

Lab File: VU040827.D

Acq: 20 Oct 2020 00:37

Tgt Ion: 95 Resp: 13638

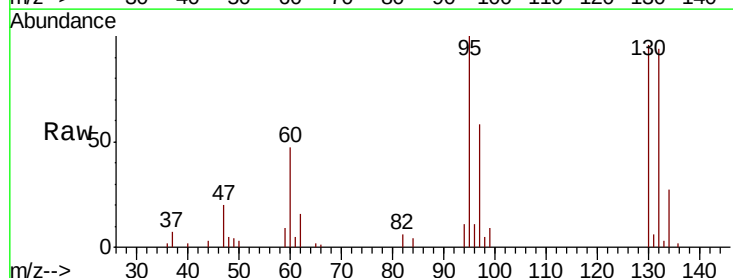
Ion Ratio Lower Upper

95 100

97 58.0 45.5 84.5

132 93.9 67.5 125.4

130 95.6 69.9 129.9

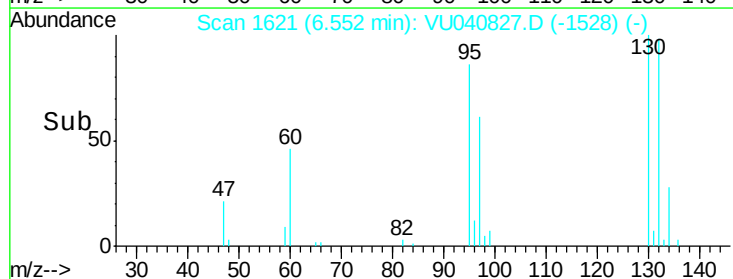
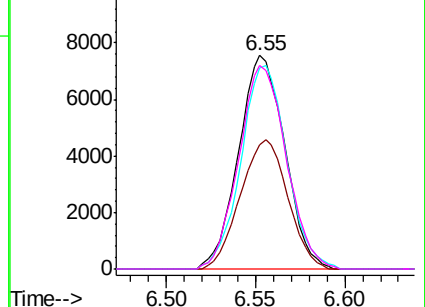


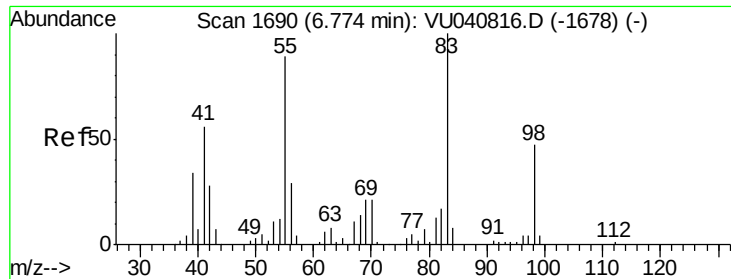
Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): VU0

Ion 129.95 (129.65 to 130.65): VU0

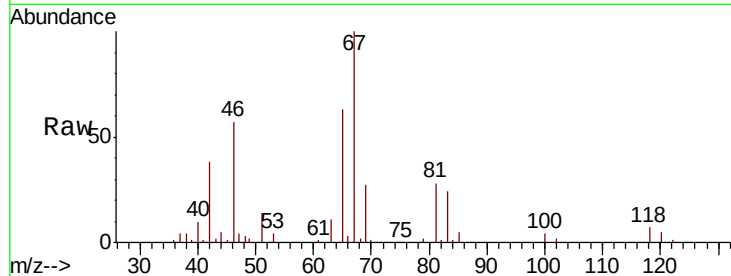




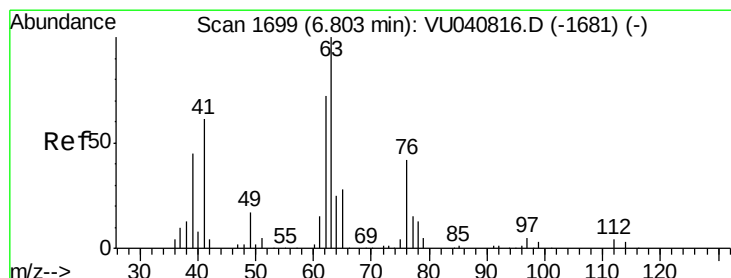
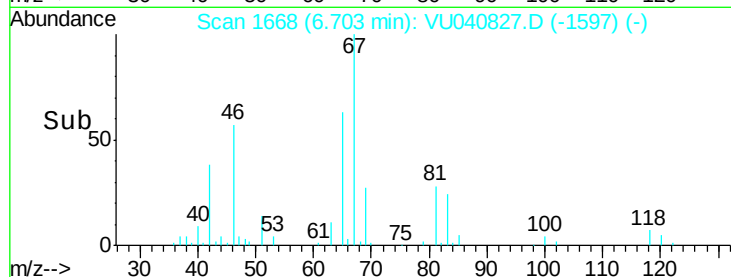
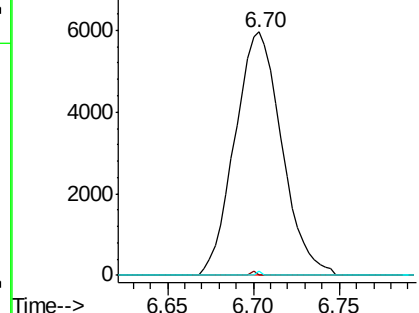
#35
Methylvlcyclohexane
Concen: 0.840 ug/L
RT: 6.70 min Scan# 1668
Delta R.T. -0.07 min
Lab File: VU040827.D
Acq: 20 Oct 2020 00:37

Instrument :
MSVOA_U
ClientSampleId :
C0AK5

Tot Ion: 83 Resp: 11288
Ion Ratio Lower Upper
83 100
55 0.2 70.7 106.1#
98 0.2 38.4 57.6#

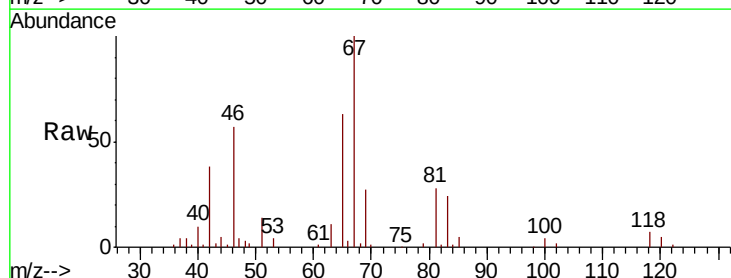


Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0

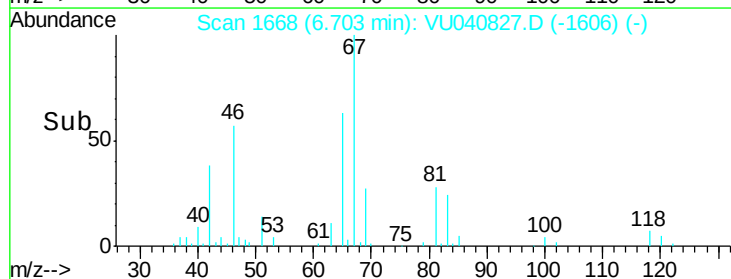
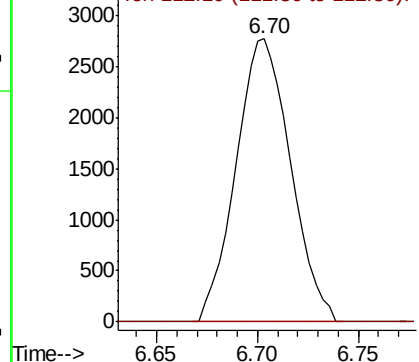


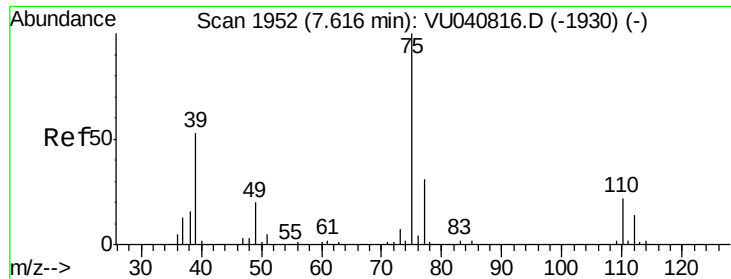
#37
1,2-Dichloropropane
Concen: 0.514 ug/L
RT: 6.70 min Scan# 1668
Delta R.T. -0.10 min
Lab File: VU040827.D
Acq: 20 Oct 2020 00:37

Tgt Ion: 63 Resp: 5232
Ion Ratio Lower Upper
63 100
112 0.0 3.5 5.3#



Abundance Ion 63.10 (62.80 to 63.80): VU0
Ion 112.10 (111.80 to 112.80): V

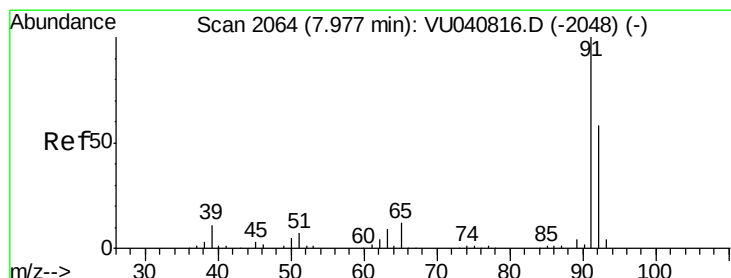
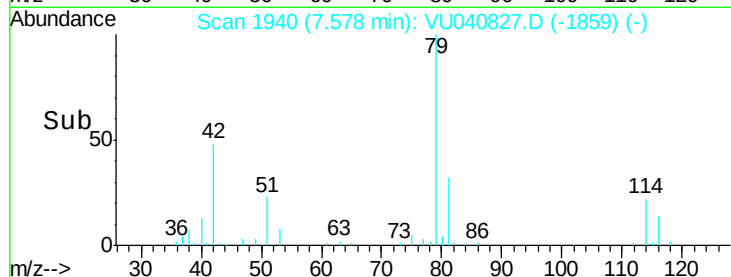
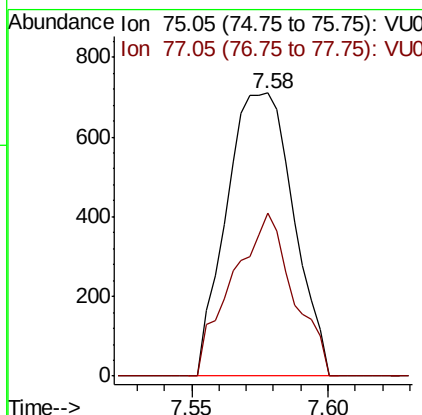
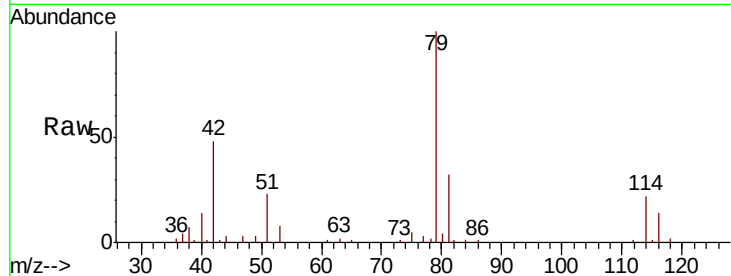




#39
 cis-1,3-Dichloropropene
 Concen: 0.087 ug/L
 RT: 7.58 min Scan# 1940
 Delta R.T. -0.04 min
 Lab File: VU040827.D
 Acq: 20 Oct 2020 00:37

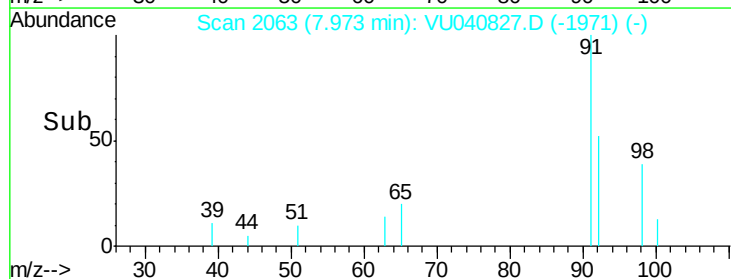
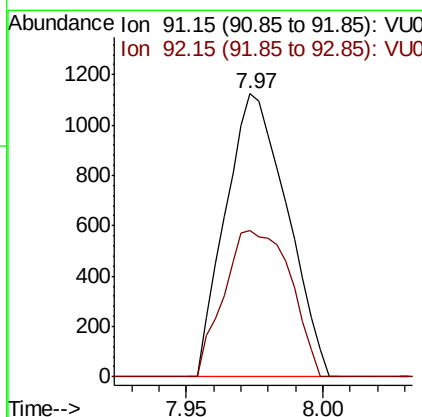
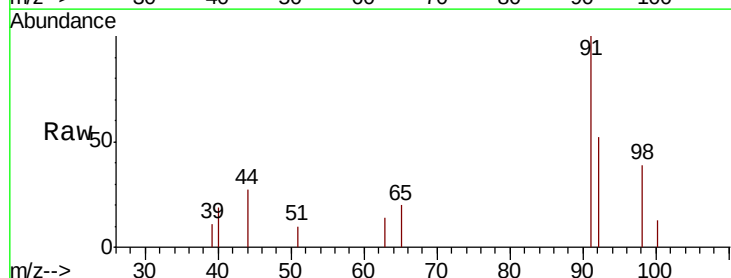
Instrument :
 MSVOA_U
 ClientSampled :
 C0AK5

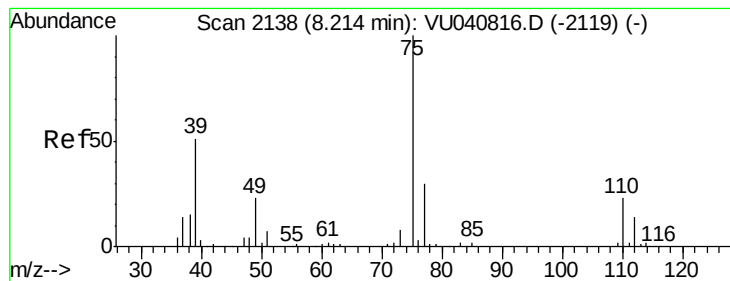
Tot Ion: 75 Resp: 1213
 Ion Ratio Lower Upper
 75 100
 77 57.5 20.5 38.1#



#42
 Toluene
 Concen: 0.047 ug/L
 RT: 7.97 min Scan# 2063
 Delta R.T. -0.00 min
 Lab File: VU040827.D
 Acq: 20 Oct 2020 00:37

Tgt Ion: 91 Resp: 1758
 Ion Ratio Lower Upper
 91 100
 92 51.8 40.2 74.6





#44

trans-1,3-Dichloropropene

Concen: 0.061 ug/L

RT: 8.19 min Scan# 2129

Delta R.T. -0.03 min

Lab File: VU040827.D

Acq: 20 Oct 2020 00:37

Instrument :

MSVOA_U

ClientSampleId :

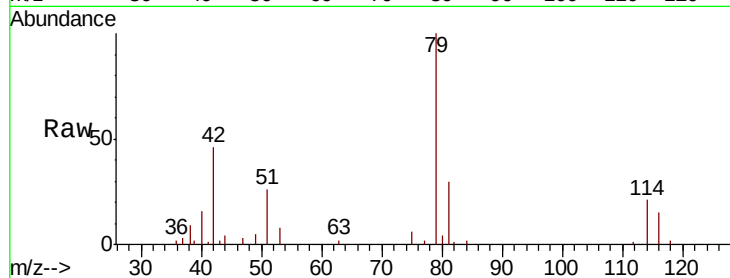
C0AK5

Tot Ion: 75 Resp: 779

Ion Ratio Lower Upper

75 100

77 26.9 20.4 38.0



Abundance Ion 75.05 (74.75 to 75.75): VU040816.D (-2119) (-)

Ion 77.05 (76.75 to 77.75): VU040816.D (-2119) (-)

8.19

600

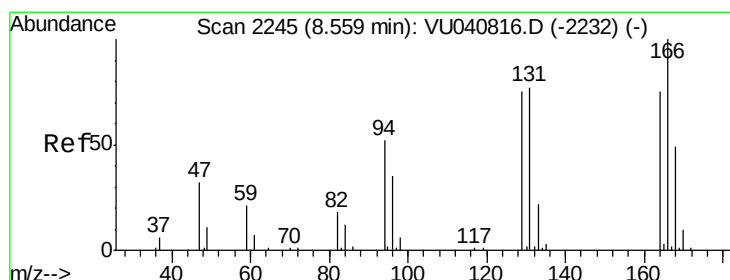
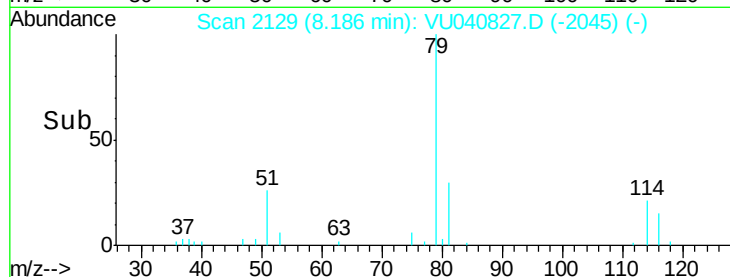
400

200

0

8.14 8.16 8.18 8.20 8.22

Time-->



#47

Tetrachloroethene

Concen: 2.623 ug/L

RT: 8.56 min Scan# 2244

Delta R.T. -0.00 min

Lab File: VU040827.D

Acq: 20 Oct 2020 00:37

Tgt Ion: 164 Resp: 17730

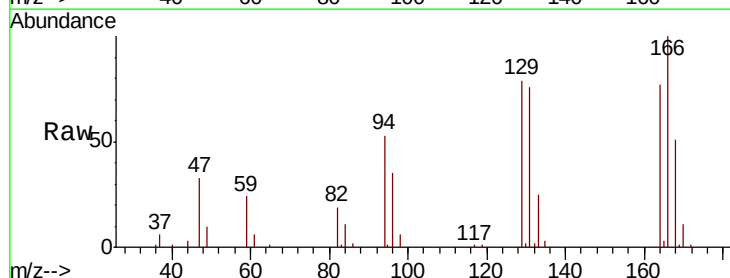
Ion Ratio Lower Upper

164 100

129 102.7 68.8 127.8

131 97.7 66.7 123.9

166 129.3 83.9 155.7



Abundance Ion 163.90 (163.60 to 164.60): VU040816.D (-2232) (-)

Ion 128.95 (128.65 to 129.65): VU040816.D (-2232) (-)

Ion 130.95 (130.65 to 131.65): VU040816.D (-2232) (-)

Ion 165.90 (165.60 to 166.60): VU040816.D (-2232) (-)

8.56

20000

15000

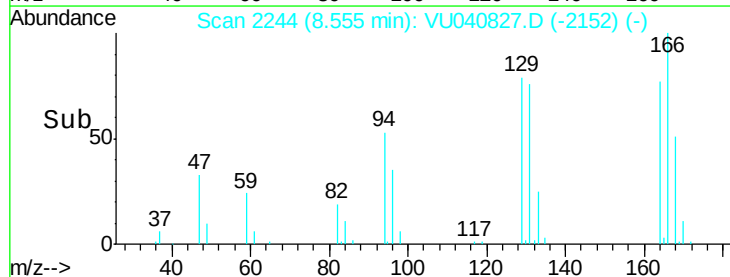
10000

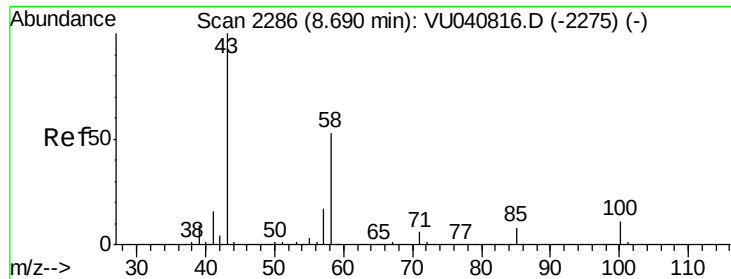
5000

0

8.50 8.55 8.60

Time-->

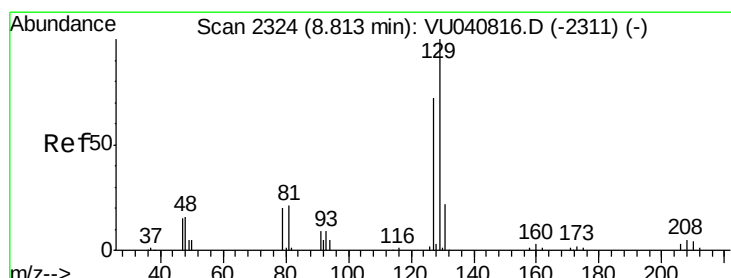
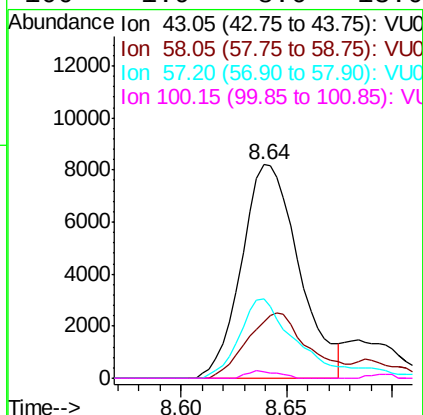
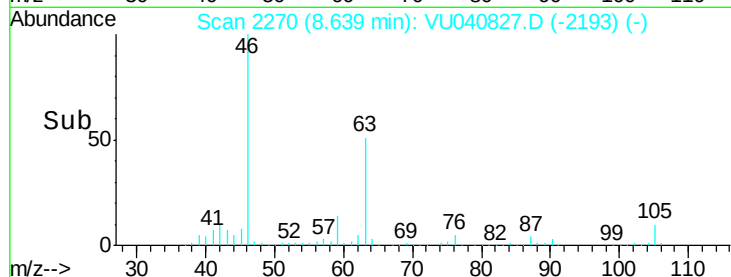
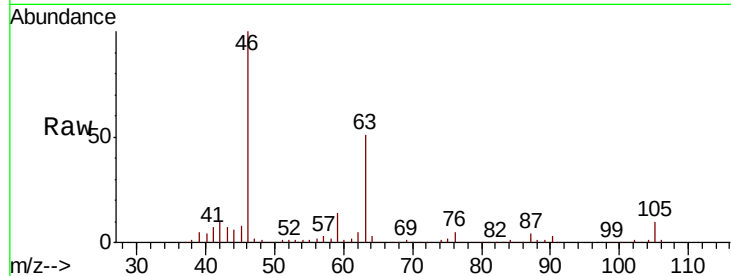




#48
2-Hexanone
Concen: 2.568 ug/L
RT: 8.64 min Scan# 2270
Delta R.T. -0.05 min
Lab File: VU040827.D
Acq: 20 Oct 2020 00:37

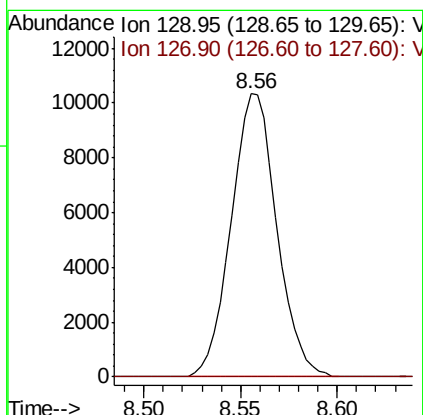
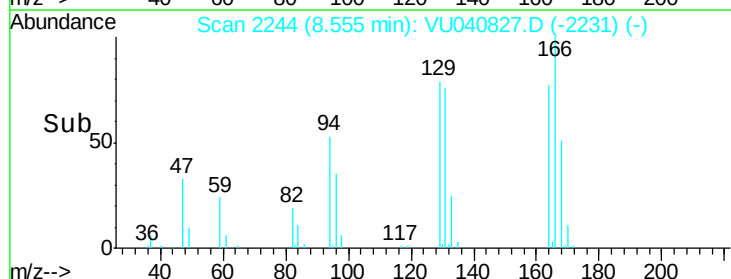
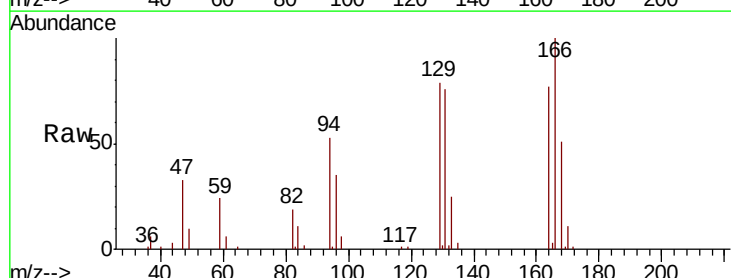
Instrument :
MSVOA_U
ClientSampleId :
C0AK5

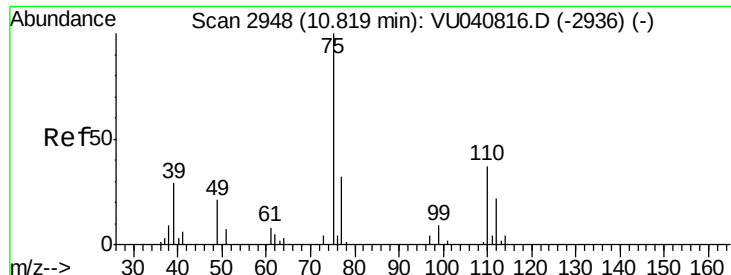
Tot Ion:	43	Resp:	15523
Ion	Ratio	Lower	Upper
43	100		
58	32.9	41.0	61.6#
57	36.5	14.4	21.6#
100	1.9	8.6	13.0#



#49
Dibromochloromethane
Concen: 1.930 ug/L
RT: 8.56 min Scan# 2244
Delta R.T. -0.26 min
Lab File: VU040827.D
Acq: 20 Oct 2020 00:37

Tgt Ion:	129	Resp:	16933
Ion	Ratio	Lower	Upper
129	100		
127	0.0	55.8	103.6#





#59

1,2,3-Trichloropropane

Concen: 0.793 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.99 min

Lab File: VU040827.D

Acq: 20 Oct 2020 00:37

Instrument :

MSVOA_U

ClientSampleId :

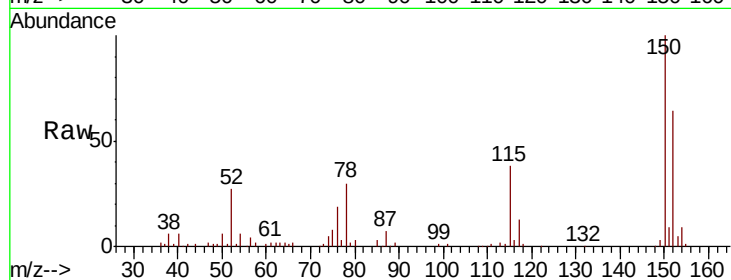
C0AK5

Tot Ion: 75 Resp: 5931

Ion Ratio Lower Upper

75 100

77 35.8 26.4 39.6



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

