

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U101920\
 Data File : VU040823.D
 Acq On : 19 Oct 2020 23:04
 Operator : SY/MD
 Sample : L4420-08
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 C0AJ8

Quant Time: Oct 20 05:20:09 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	115044	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	119747	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	49411	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	26892	2.82	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	56.40%
7) Chloroethane-d5	1.92	69	29062	3.95	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	79.00%
11) 1,1-Dichloroethene-d2	2.59	63	304967	16.36	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	327.20%#
20) 2-Butanone-d5	4.66	46	174707	57.27	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	114.54%
24) Chloroform-d	5.08	84	79835	4.77	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.40%
26) 1,2-Dichloroethane-d4	5.72	65	49003	4.81	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.20%
32) Benzene-d6	5.74	84	131234	4.07	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	81.40%
36) 1,2-Dichloropropane-d6	6.70	67	51016	4.76	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	95.20%
41) Toluene-d8	7.91	98	99534	3.44	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	68.80%#
43) trans-1,3-Dichloropropene-	8.19	79	17998	3.96	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	79.20%
46) 2-Hexanone-d5	8.64	63	121766	52.02	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	104.04%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	46853	4.87	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	97.40%
64) 1,2-Dichlorobenzene-d4	12.19	152	45515	4.97	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	99.40%

Target Compounds

					Ovalue
3) Chloromethane	1.50	50	4453	0.457 ug/L #	43
5) Vinyl chloride	1.61	62	1433	0.140 ug/L #	1
8) Chloroethane	1.94	64	443	0.068 ug/L #	50
9) Trichlorofluoromethane	2.37	101	4436	0.301 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	1378	0.144 ug/L #	31
12) 1,1-Dichloroethene	2.59	96	448208	54.602 ug/L #	76
14) Carbon disulfide	2.81	76	1112	0.048 ug/L #	76
15) Methyl Acetate	2.97	43	655	0.121 ug/L #	56
18) trans-1,2-Dichloroethene	3.37	96	1748	0.203 ug/L	86
19) 1,1-Dichloroethane	3.89	63	77071	4.337 ug/L	98
22) cis-1,2-Dichloroethene	4.69	96	267387	28.856 ug/L	98
25) Chloroform	5.11	83	10997	0.606 ug/L	89
27) 1,2-Dichloroethane	5.81	62	1535	0.120 ug/L #	87
29) 1,1,1-Trichloroethane	5.33	97	28761	1.787 ug/L	97
31) Carbon tetrachloride	5.54	117	9384	0.681 ug/L	98
34) Trichloroethene	6.56	95	350901	35.188 ug/L	99
35) Methylcyclohexane	6.70	83	11657	0.824 ug/L #	14

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Quant Time: Oct 20 05:20:09 2020
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 Quant Title : TRACE VOA SOM01.0
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 Response via : Initial Calibration

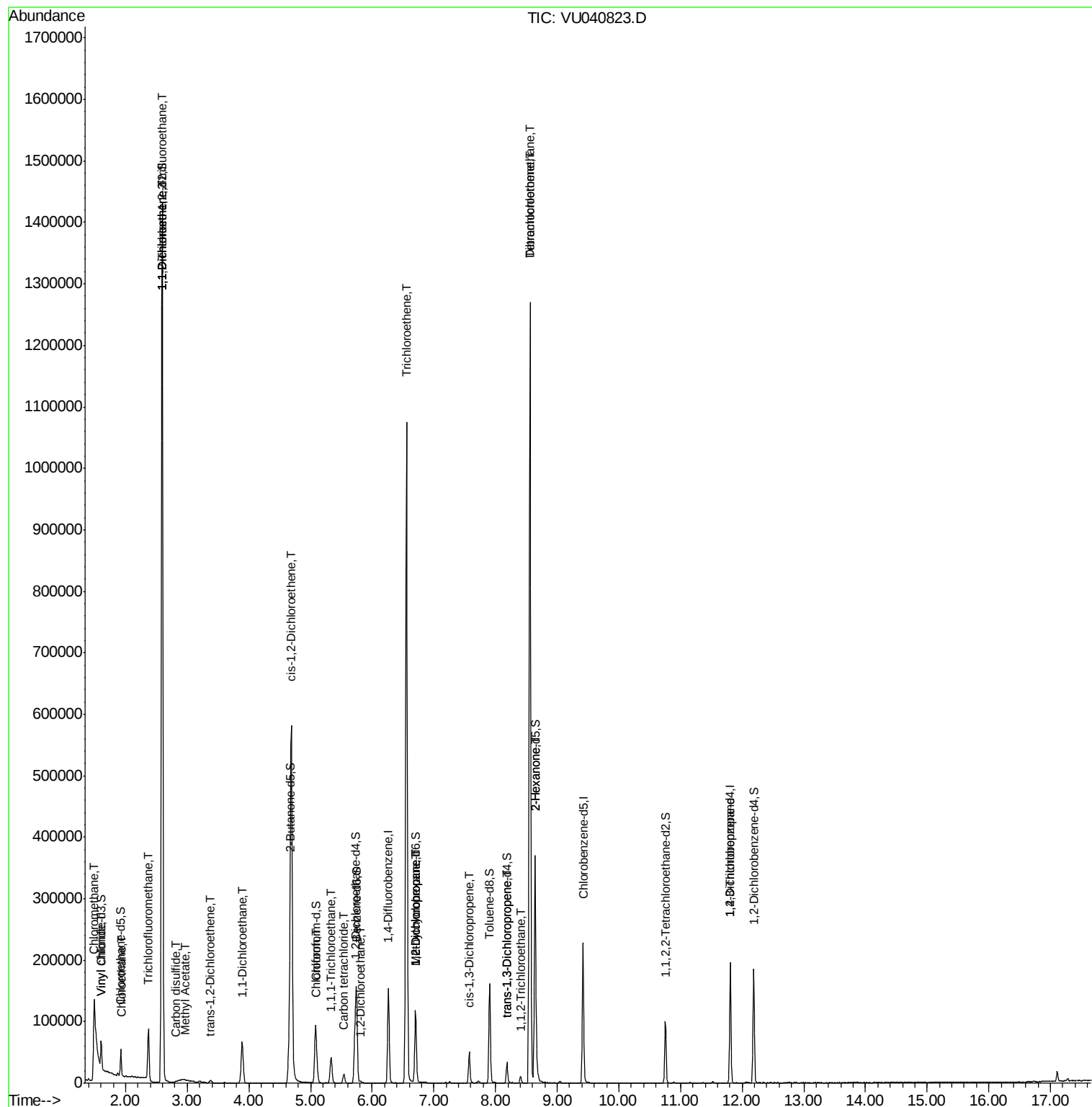
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,2-Dichloropropane	6.70	63	5711	0.533	ug/L #	87
39) cis-1,3-Dichloropropene	7.57	75	1144	0.078	ug/L #	82
44) trans-1,3-Dichloropropene	8.19	75	726	0.054	ug/L #	23
45) 1,1,2-Trichloroethane	8.41	97	3039	0.379	ug/L	96
47) Tetrachloroethene	8.56	164	266068	37.397	ug/L	96
48) 2-Hexanone	8.64	43	20046	3.151	ug/L #	74
49) Dibromochloromethane	8.56	129	254195	27.518	ug/L #	9
59) 1,2,3-Trichloropropane	11.81	75	6657	0.845	ug/L	94

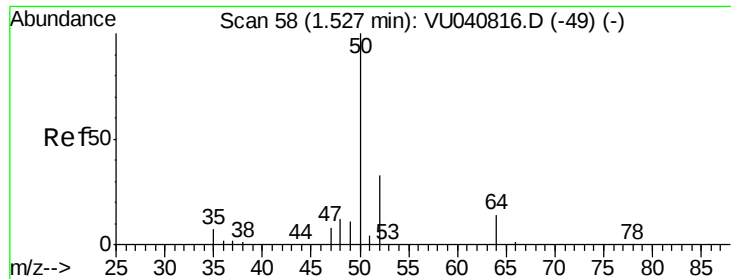
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.457 ug/L

RT: 1.50 min Scan# 49

Delta R.T. -0.03 min

Lab File: VU040823.D

Acq: 19 Oct 2020 23:04

Instrument :

MSVOA_U

ClientSampleId :

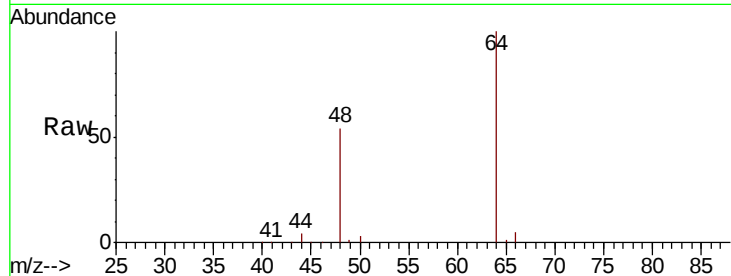
C0AJ8

Tot Ion: 50 Resp: 4453

Ion Ratio Lower Upper

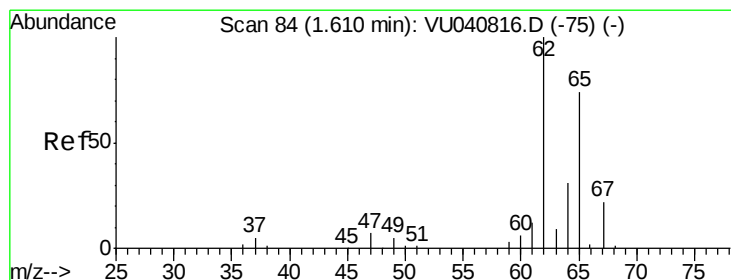
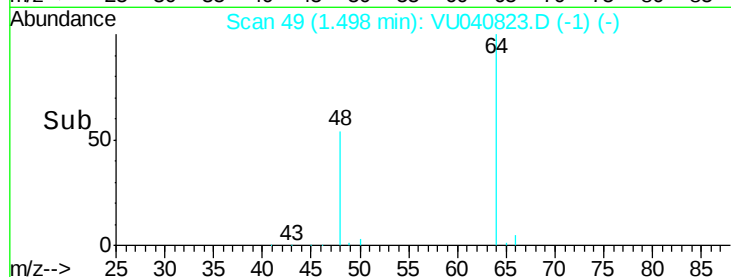
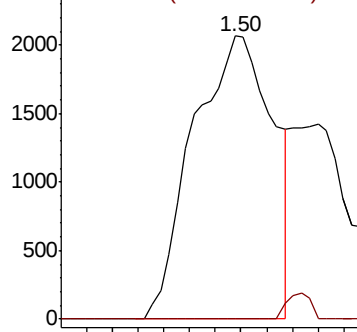
50 100

52 0.0 21.9 40.7#



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0



#5

Vinyl chloride

Concen: 0.140 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU040823.D

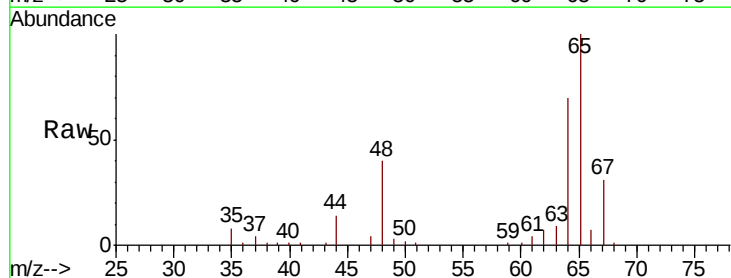
Acq: 19 Oct 2020 23:04

Tgt Ion: 62 Resp: 1433

Ion Ratio Lower Upper

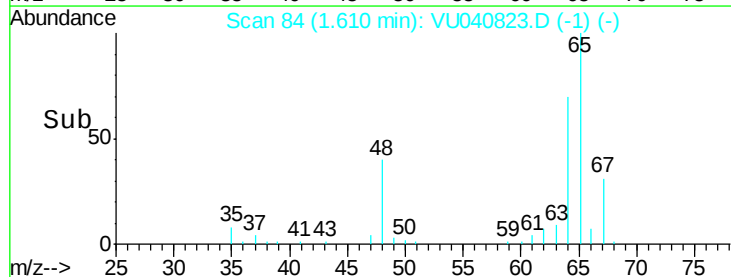
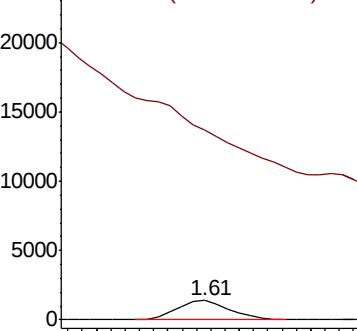
62 100

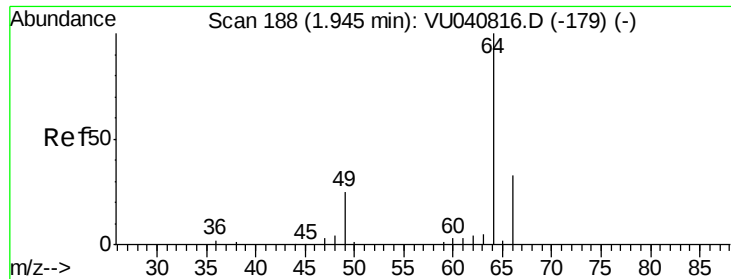
64 967.1 23.7 44.1#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0

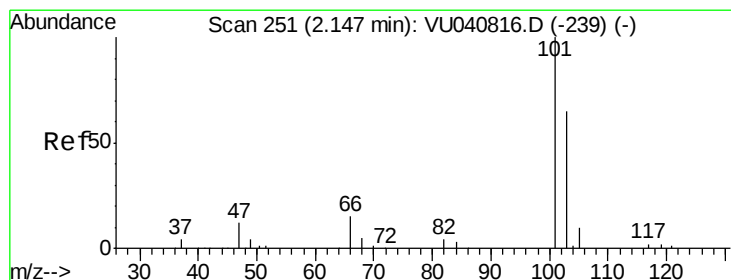
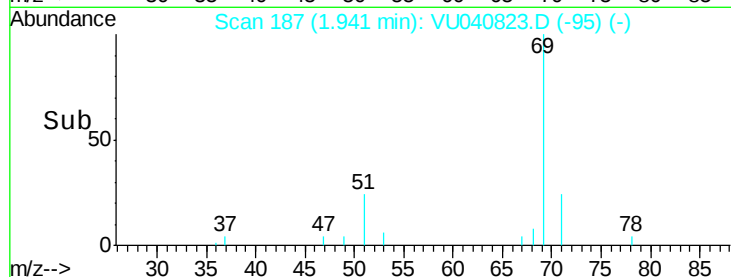
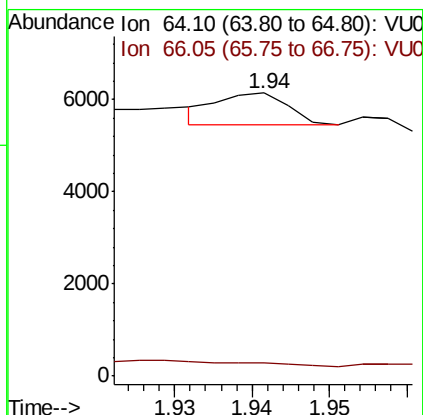
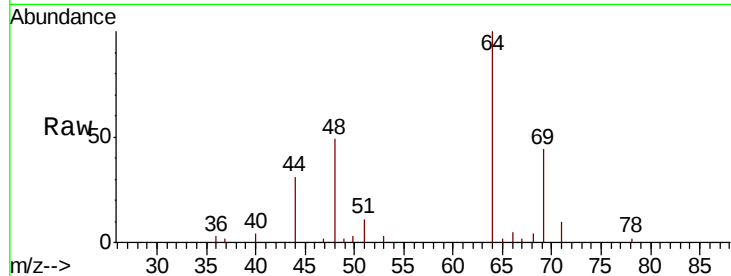




#8
Chloroethane
Concen: 0.068 ug/L
RT: 1.94 min Scan# 187
Delta R.T. -0.00 min
Lab File: VU040823.D
Acq: 19 Oct 2020 23:04

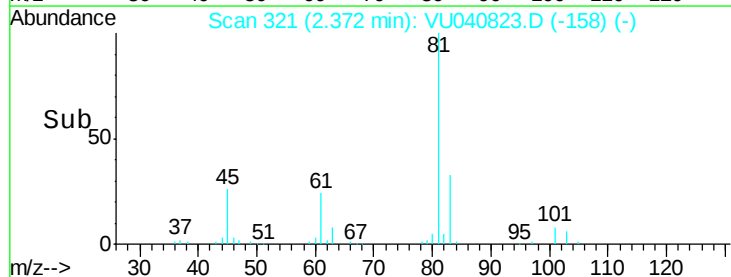
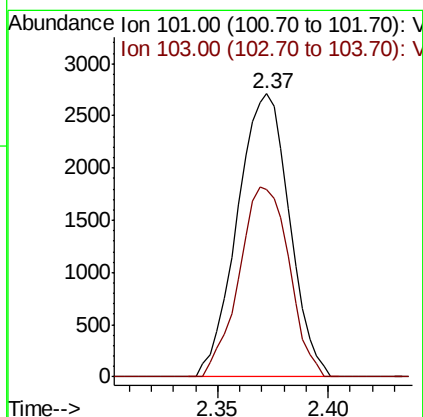
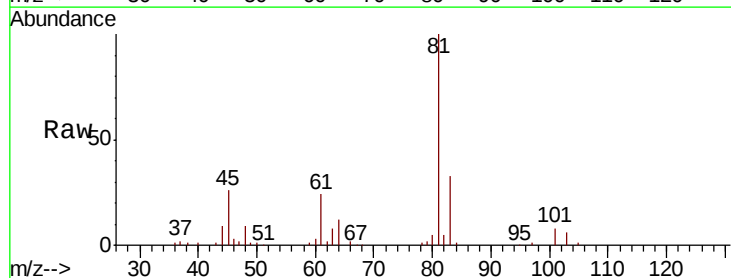
Instrument :
MSVOA_U
ClientSampleId :
C0AJ8

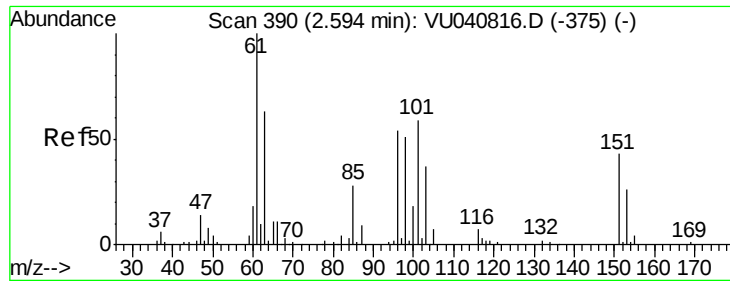
Tot Ion: 64 Resp: 443
Ion Ratio Lower Upper
64 100
66 4.6 23.3 43.3#



#9
Trichlorofluoromethane
Concen: 0.301 ug/L
RT: 2.37 min Scan# 321
Delta R.T. 0.23 min
Lab File: VU040823.D
Acq: 19 Oct 2020 23:04

Tgt Ion:101 Resp: 4436
Ion Ratio Lower Upper
101 100
103 64.3 52.2 78.4





#10

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

Concen: 0.144 ug/L

RT: 2.59 min Scan# 388

Delta R.T. -0.01 min

Lab File: VU040823.D

Acq: 19 Oct 2020 23:04

Instrument :

MSVOA_U

ClientSampleId :

C0AJ8

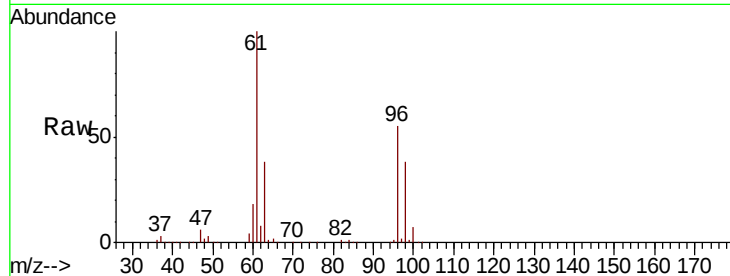
Tot Ion:101 Resp: 1378

Ion Ratio Lower Upper

101 100

85 18.1 36.7 55.1#

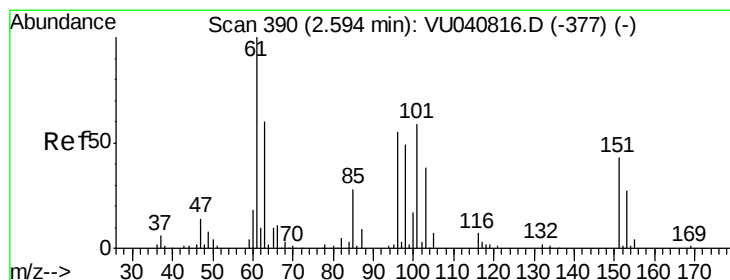
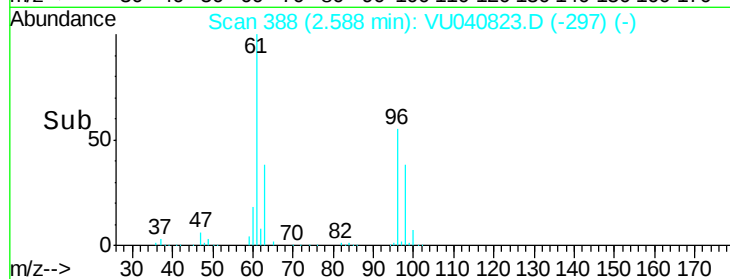
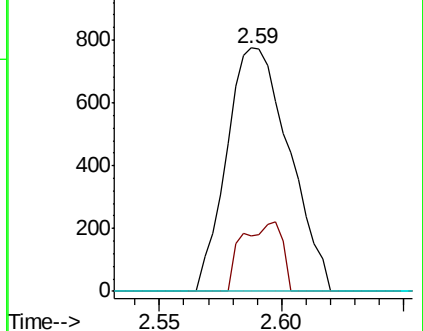
151 0.0 58.0 87.0#



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: 54.602 ug/L

RT: 2.59 min Scan# 390

Delta R.T. 0.00 min

Lab File: VU040823.D

Acq: 19 Oct 2020 23:04

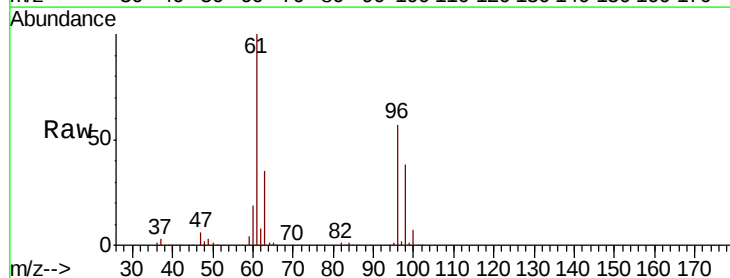
Tgt Ion: 96 Resp: 448208

Ion Ratio Lower Upper

96 100

61 176.6 128.8 239.2

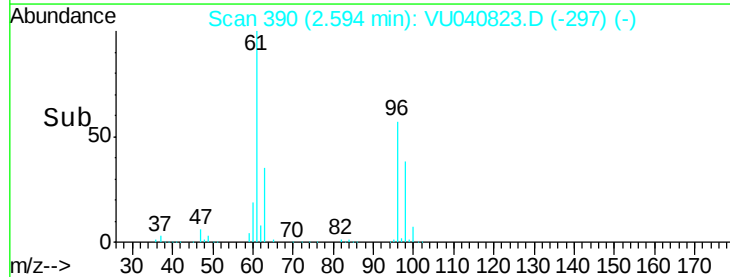
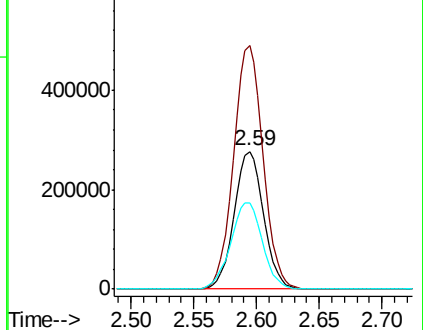
63 62.3 84.6 157.2#

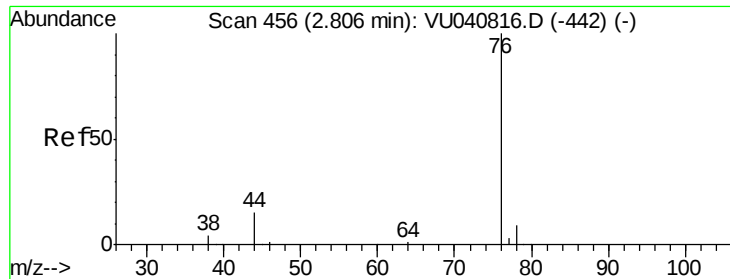


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#14

Carbon disulfide

Concen: 0.048 ug/L

RT: 2.81 min Scan# 458

Delta R.T. 0.01 min

Lab File: VU040823.D

Acq: 19 Oct 2020 23:04

Instrument :

MSVOA_U

ClientSampled :

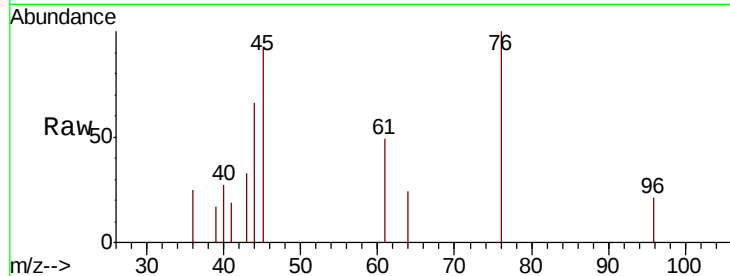
C0AJ8

Tot Ion: 76 Resp: 1112

Ion Ratio Lower Upper

76 100

78 0.0 6.8 10.2#



Abundance Ion 76.05 (75.75 to 76.75): VU0

Ion 78.00 (77.70 to 78.70): VU0

2.81

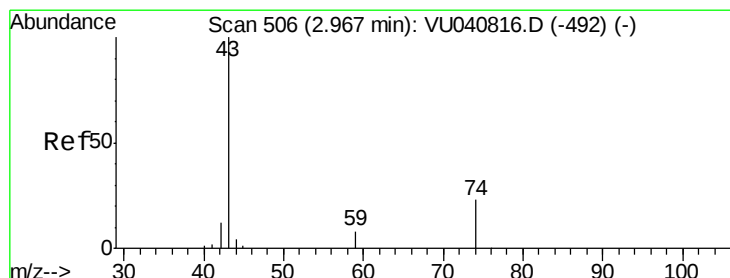
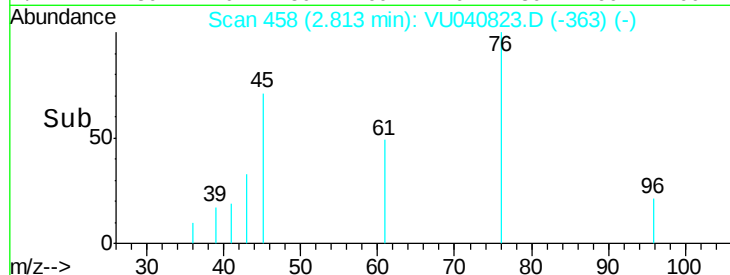
600

400

200

0

Time-->



#15

Methyl Acetate

Concen: 0.121 ug/L

RT: 2.97 min Scan# 507

Delta R.T. 0.00 min

Lab File: VU040823.D

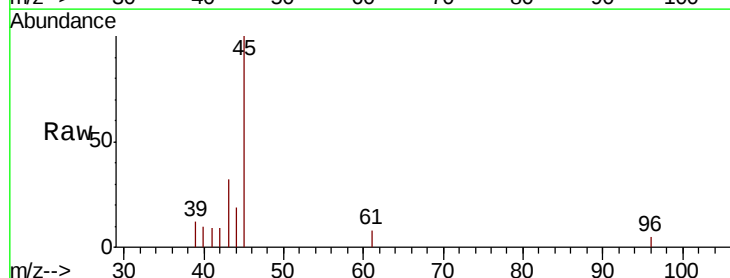
Acq: 19 Oct 2020 23:04

Tgt Ion: 43 Resp: 655

Ion Ratio Lower Upper

43 100

74 0.0 16.5 24.7#



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 74.05 (73.75 to 74.75): VU0

2.97

1000

800

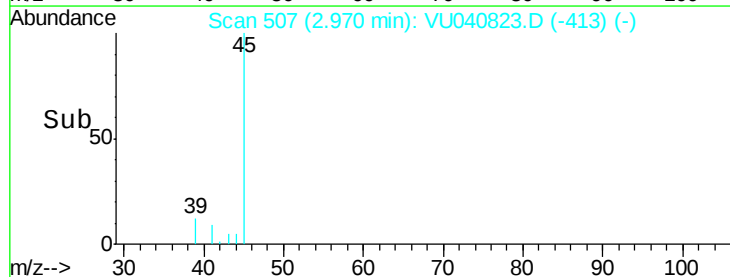
600

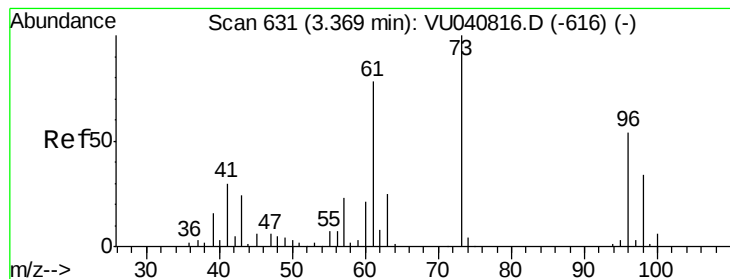
400

200

0

Time-->





#18

trans-1,2-Dichloroethene

Concen: 0.203 ug/L

RT: 3.37 min Scan# 631

Delta R.T. 0.00 min

Lab File: VU040823.D

Acq: 19 Oct 2020 23:04

Instrument :

MSVOA_U

ClientSampleId :

C0AJ8

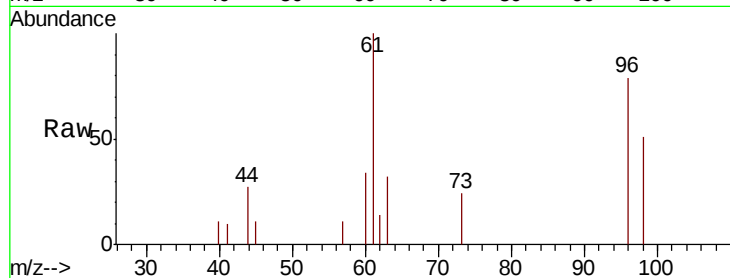
Tot Ion: 96 Resp: 1748

Ion Ratio Lower Upper

96 100

61 127.2 105.9 196.7

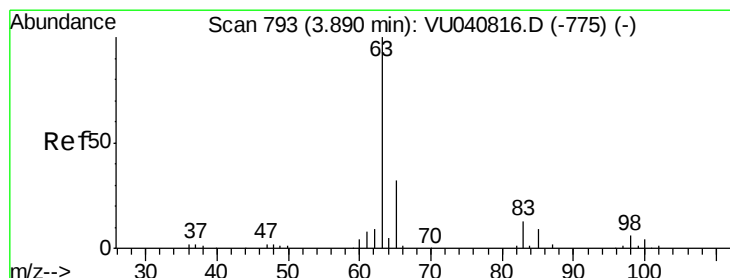
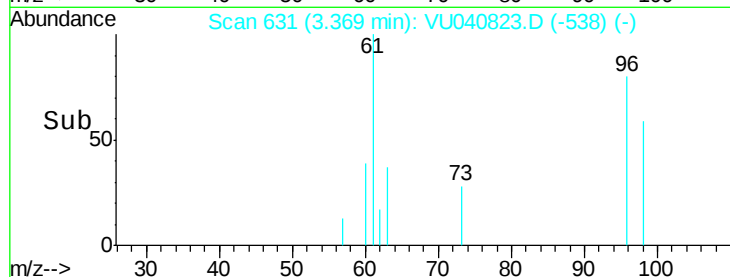
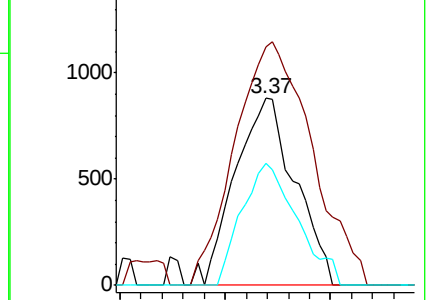
98 65.0 43.8 81.3



Abundance Ion 96.00 (95.70 to 96.70): VU040823.D (-538) (-)

Ion 61.05 (60.75 to 61.75): VU040823.D (-538) (-)

Ion 97.95 (97.65 to 98.65): VU040823.D (-538) (-)



#19

1,1-Dichloroethane

Concen: 4.337 ug/L

RT: 3.89 min Scan# 793

Delta R.T. 0.00 min

Lab File: VU040823.D

Acq: 19 Oct 2020 23:04

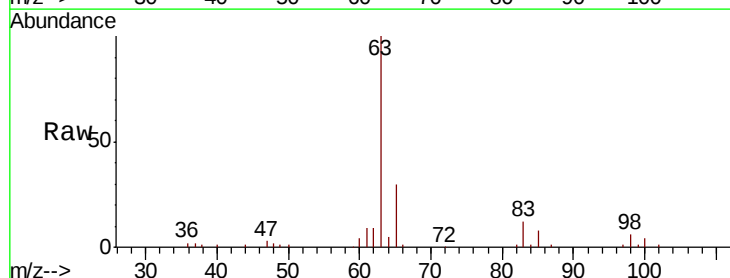
Tgt Ion: 63 Resp: 77071

Ion Ratio Lower Upper

63 100

65 30.4 21.9 40.7

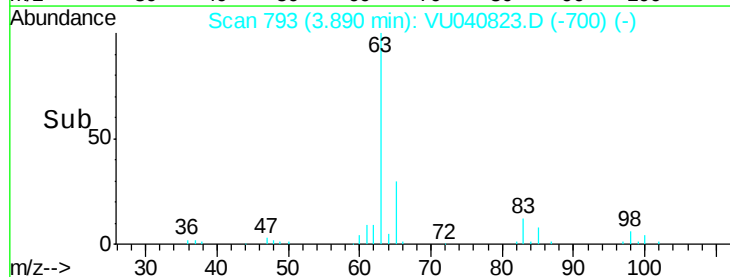
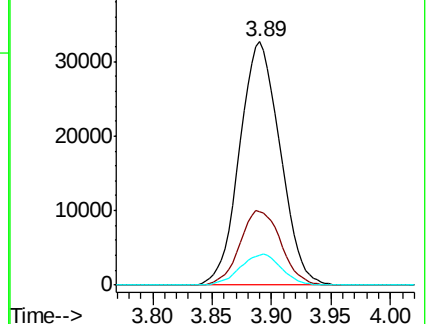
83 12.3 9.6 17.8

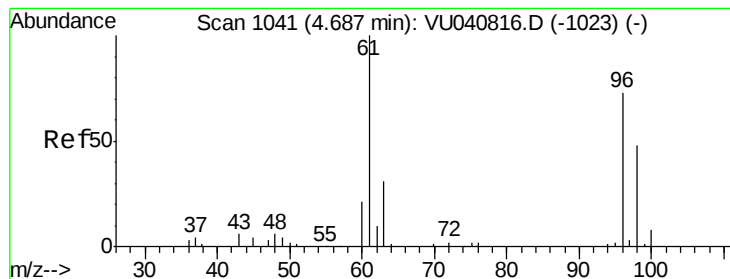


Abundance Ion 63.10 (62.80 to 63.80): VU040823.D (-700) (-)

Ion 65.10 (64.80 to 65.80): VU040823.D (-700) (-)

Ion 83.05 (82.75 to 83.75): VU040823.D (-700) (-)





#22

cis-1,2-Dichloroethene

Concen: 28.856 ug/L

RT: 4.69 min Scan# 1041

Delta R.T. 0.00 min

Lab File: VU040823.D

Acq: 19 Oct 2020 23:04

Instrument :

MSVOA_U

ClientSampleId :

C0AJ8

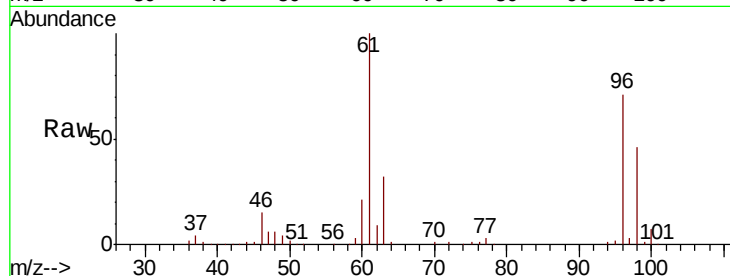
Tot Ion: 96 Resp: 267387

Ion Ratio Lower Upper

96 100

61 140.0 99.8 185.4

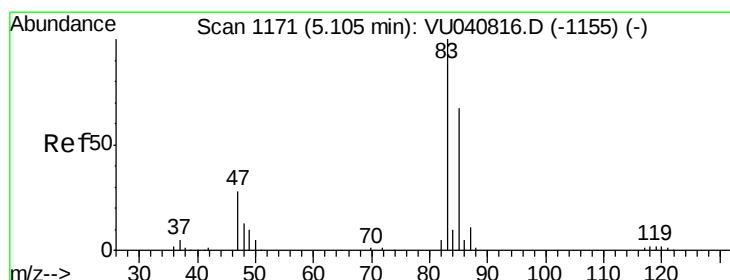
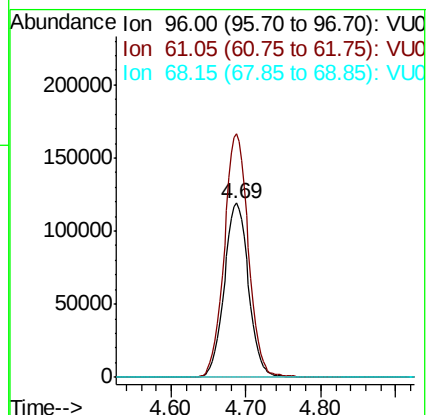
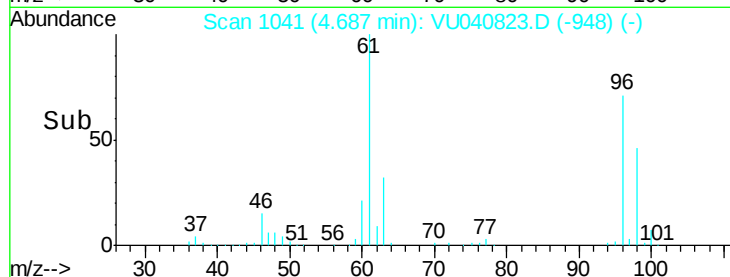
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU040823.D (-1078) (-)

Ion 61.05 (60.75 to 61.75): VU040823.D (-1078) (-)

Ion 68.15 (67.85 to 68.85): VU040823.D (-1078) (-)



#25

Chloroform

Concen: 0.606 ug/L

RT: 5.11 min Scan# 1171

Delta R.T. 0.00 min

Lab File: VU040823.D

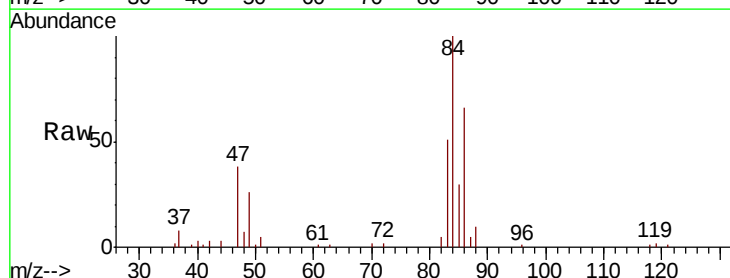
Acq: 19 Oct 2020 23:04

Tgt Ion: 83 Resp: 10997

Ion Ratio Lower Upper

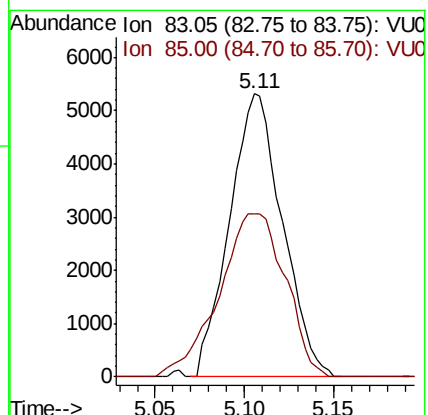
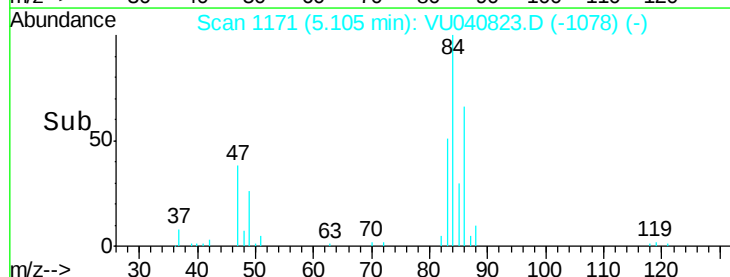
83 100

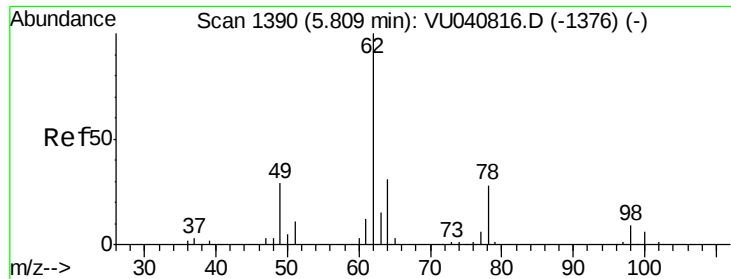
85 57.7 46.5 86.5



Abundance Ion 83.05 (82.75 to 83.75): VU040823.D (-1078) (-)

Ion 85.00 (84.70 to 85.70): VU040823.D (-1078) (-)

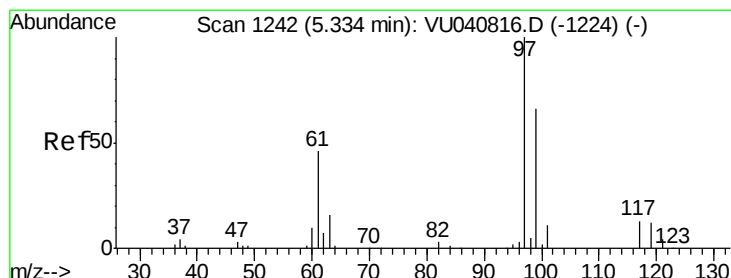
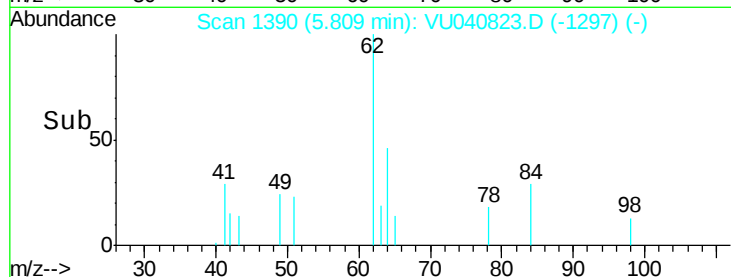
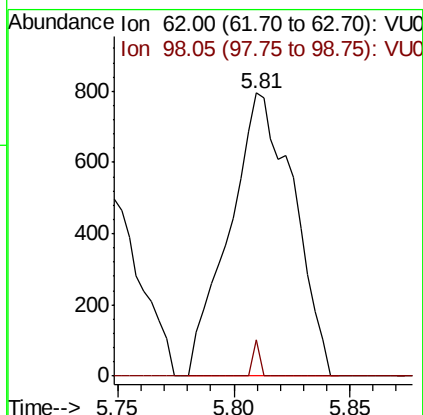
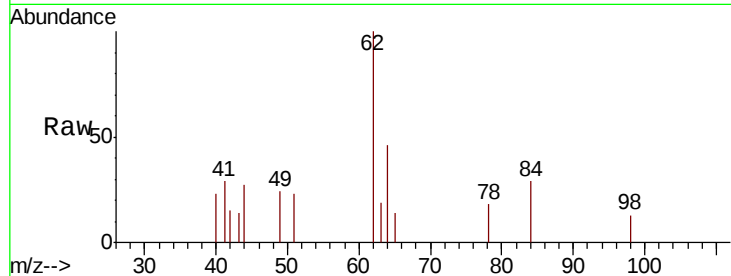




#27
 1,2-Dichloroethane
 Concen: 0.120 ug/L
 RT: 5.81 min Scan# 1390
 Delta R.T. 0.00 min
 Lab File: VU040823.D
 Acq: 19 Oct 2020 23:04

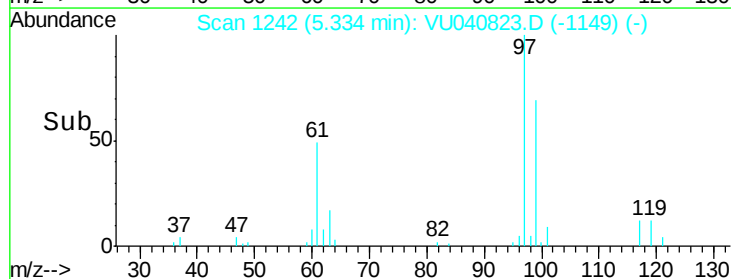
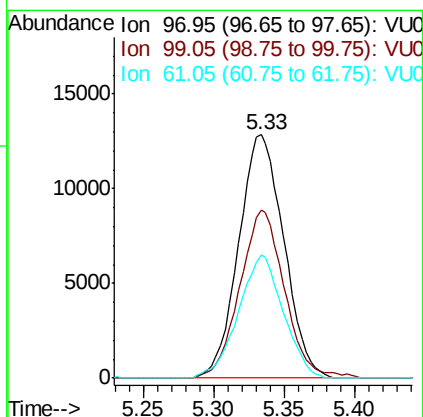
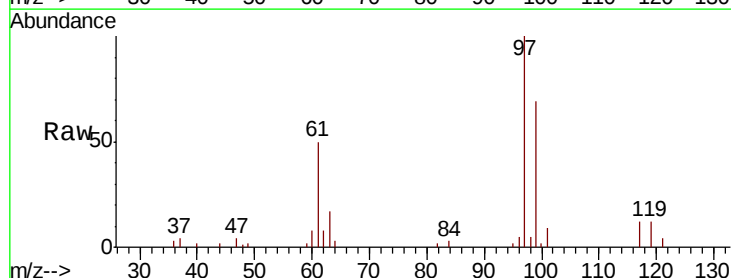
Instrument :
 MSVOA_U
 ClientSampleId :
 C0AJ8

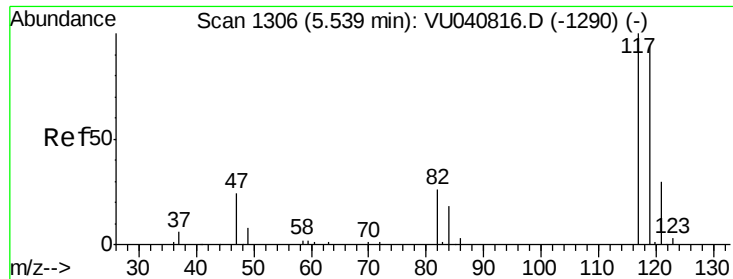
Tot Ion: 62 Resp: 1535
 Ion Ratio Lower Upper
 62 100
 98 12.8 6.6 10.0#



#29
 1,1,1-Trichloroethane
 Concen: 1.787 ug/L
 RT: 5.33 min Scan# 1242
 Delta R.T. 0.00 min
 Lab File: VU040823.D
 Acq: 19 Oct 2020 23:04

Tgt Ion: 97 Resp: 28761
 Ion Ratio Lower Upper
 97 100
 99 68.3 51.3 76.9
 61 50.0 39.4 59.2

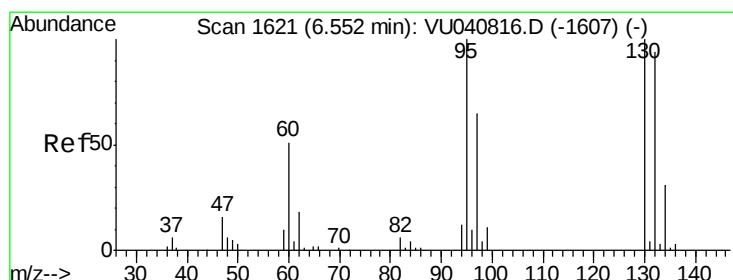
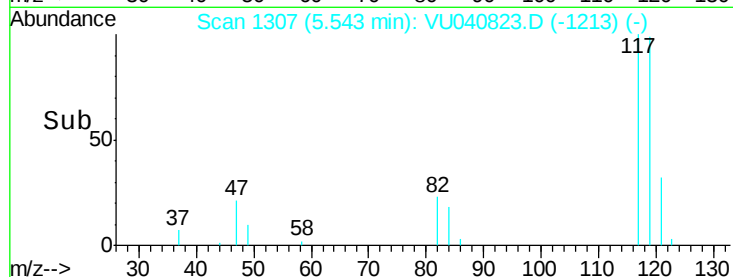
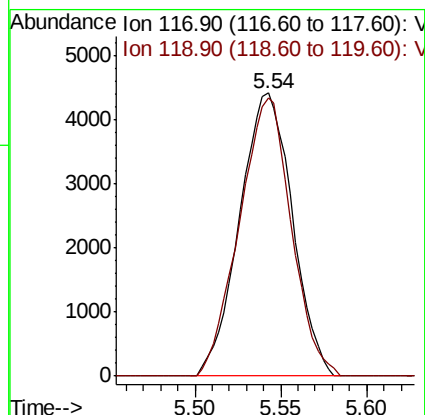
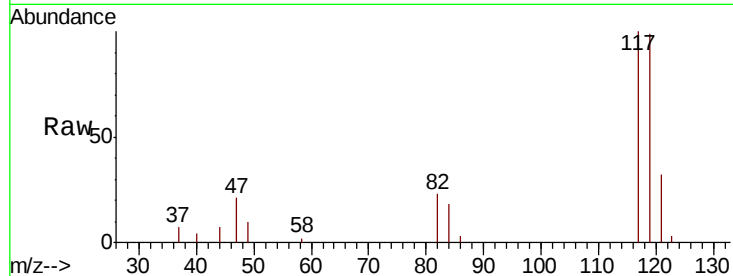




#31
Carbon tetrachloride
Concen: 0.681 ug/L
RT: 5.54 min Scan# 1307
Delta R.T. 0.00 min
Lab File: VU040823.D
Acq: 19 Oct 2020 23:04

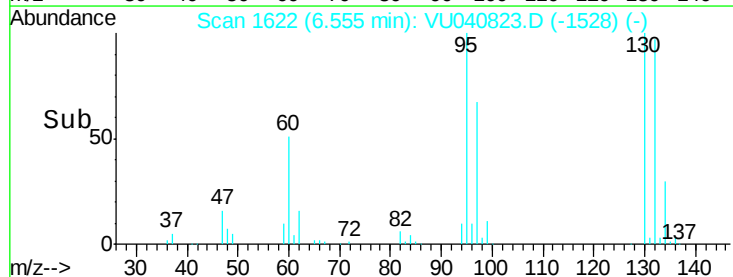
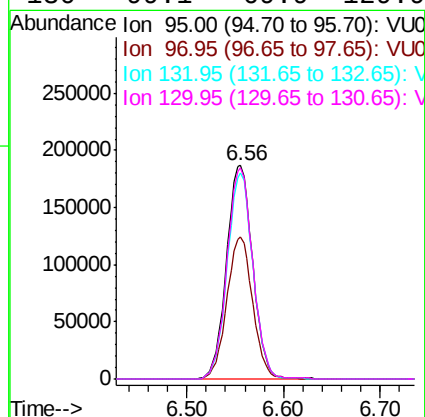
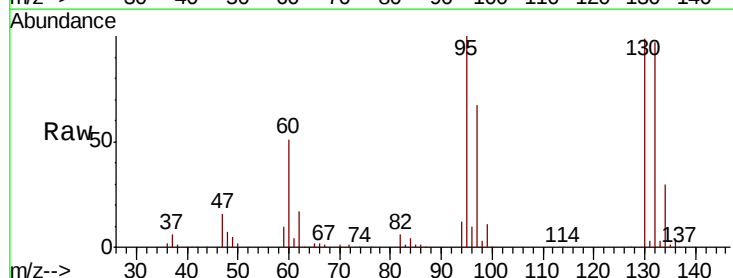
Instrument :
MSVOA_U
ClientSampleId :
C0AJ8

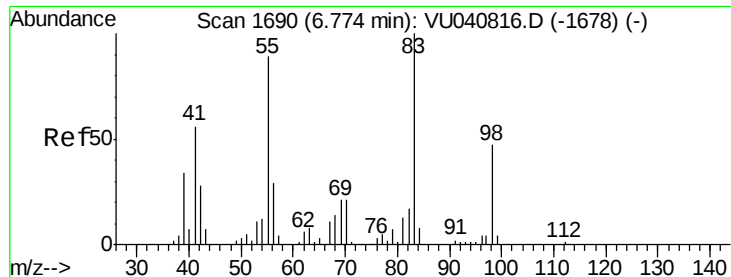
Tot Ion:117 Resp: 9384
Ion Ratio Lower Upper
117 100
119 96.9 76.2 114.2



#34
Trichloroethene
Concen: 35.188 ug/L
RT: 6.56 min Scan# 1622
Delta R.T. 0.00 min
Lab File: VU040823.D
Acq: 19 Oct 2020 23:04

Tgt Ion: 95 Resp: 350901
Ion Ratio Lower Upper
95 100
97 66.6 45.5 84.5
132 96.8 67.5 125.4
130 99.1 69.9 129.9

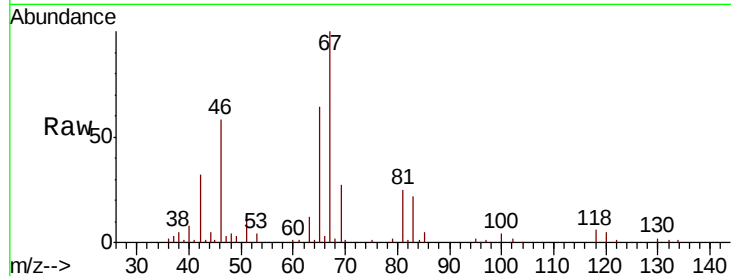




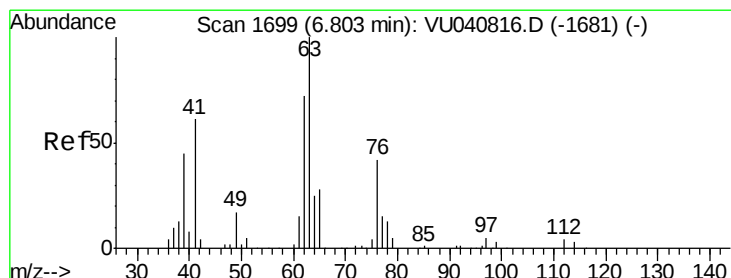
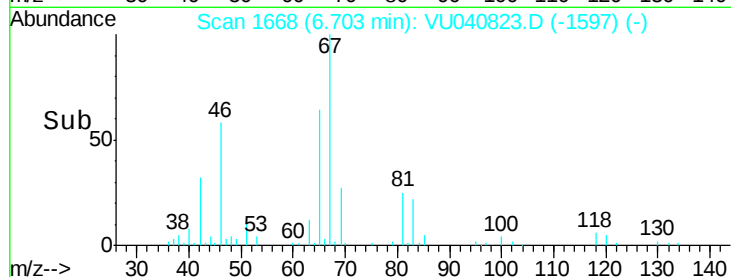
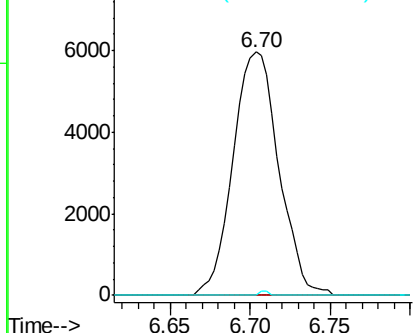
#35
Methylcyclohexane
Concen: 0.824 ug/L
RT: 6.70 min Scan# 1668
Delta R.T. -0.07 min
Lab File: VU040823.D
Acq: 19 Oct 2020 23:04

Instrument :
MSVOA_U
ClientSampleId :
C0AJ8

Tot Ion: 83 Resp: 11657
Ion Ratio Lower Upper
83 100
55 0.0 70.7 106.1#
98 0.0 38.4 57.6#

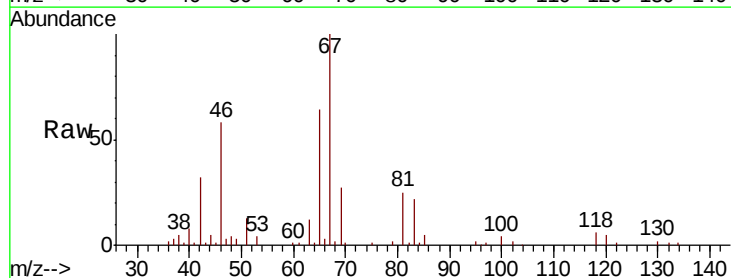


Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0

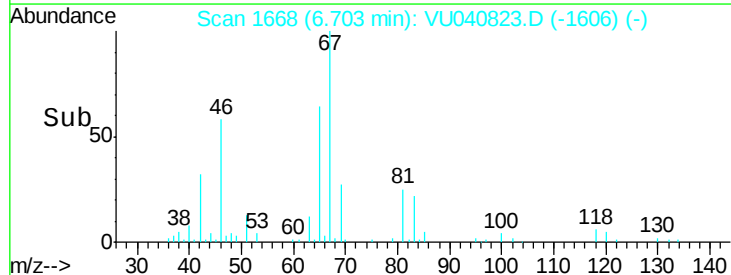
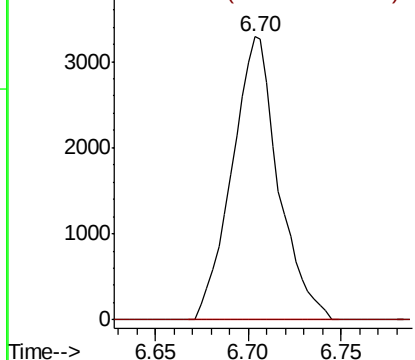


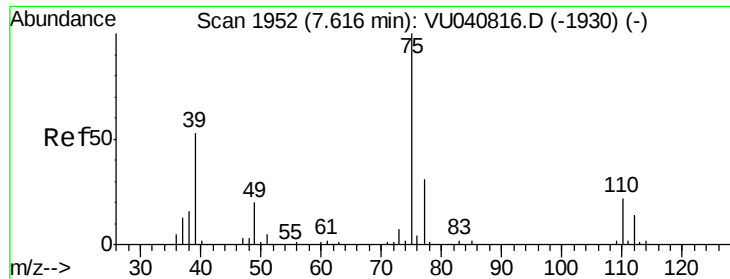
#37
1,2-Dichloropropane
Concen: 0.533 ug/L
RT: 6.70 min Scan# 1668
Delta R.T. -0.10 min
Lab File: VU040823.D
Acq: 19 Oct 2020 23:04

Tgt Ion: 63 Resp: 5711
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

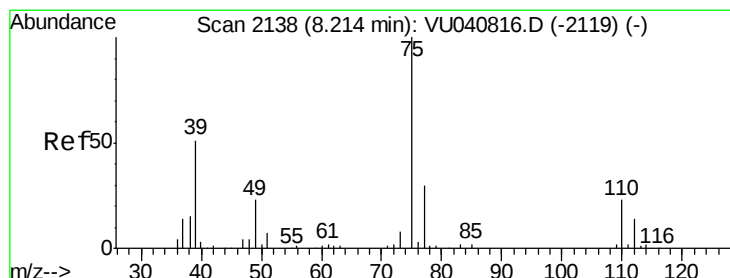
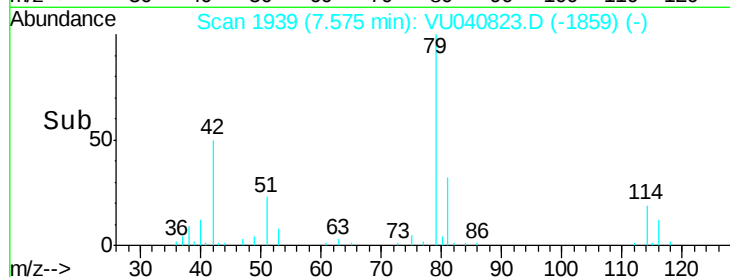
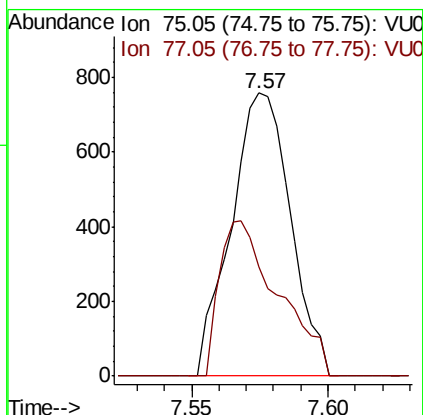
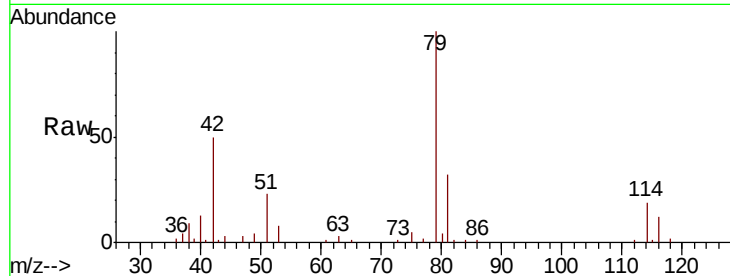




#39
 cis-1,3-Dichloropropene
 Concen: 0.078 ug/L
 RT: 7.57 min Scan# 1939
 Delta R.T. -0.04 min
 Lab File: VU040823.D
 Acq: 19 Oct 2020 23:04

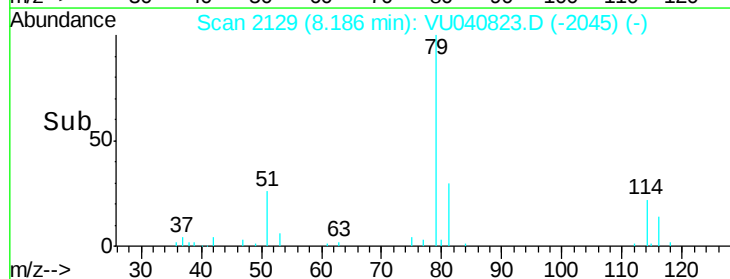
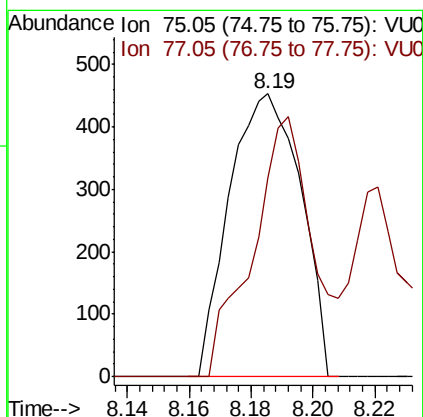
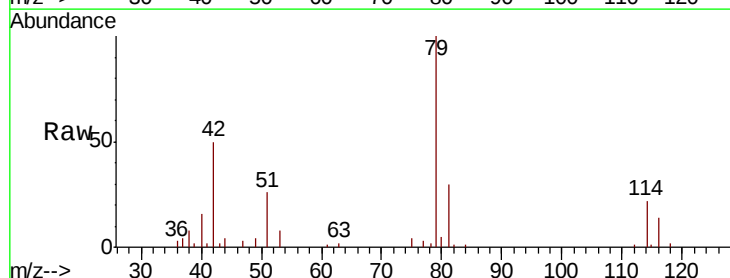
Instrument :
 MSVOA_U
 ClientSampleId :
 C0AJ8

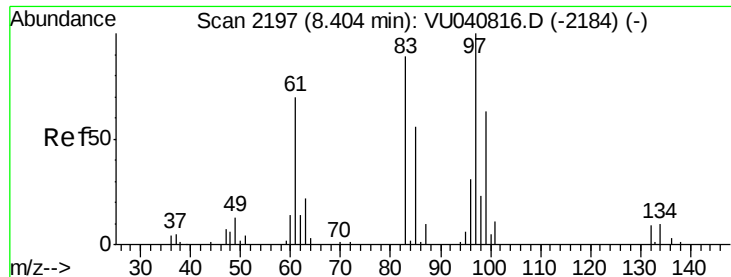
Tot Ion: 75 Resp: 1144
 Ion Ratio Lower Upper
 75 100
 77 38.8 20.5 38.1#



#44
 trans-1,3-Dichloropropene
 Concen: 0.054 ug/L
 RT: 8.19 min Scan# 2129
 Delta R.T. -0.03 min
 Lab File: VU040823.D
 Acq: 19 Oct 2020 23:04

Tgt Ion: 75 Resp: 726
 Ion Ratio Lower Upper
 75 100
 77 70.2 20.4 38.0#

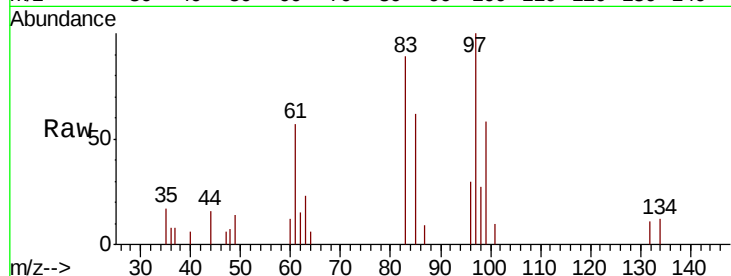




#45
1,1,2-Trichloroethane
Concen: 0.379 ug/L
RT: 8.41 min Scan# 2198
Delta R.T. 0.00 min
Lab File: VU040823.D
Acq: 19 Oct 2020 23:04

Instrument :
MSVOA_U
ClientSampled :
C0AJ8

Tot Ion:	97	Resp:	3039
Ion	Ratio	Lower	Upper
97	100		
99	57.7	44.0	81.6
83	89.0	62.9	116.9
85	62.4	40.3	74.8

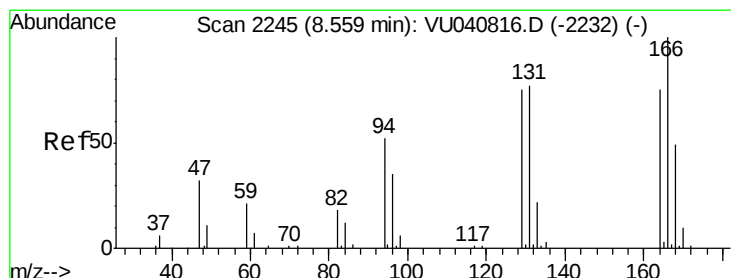
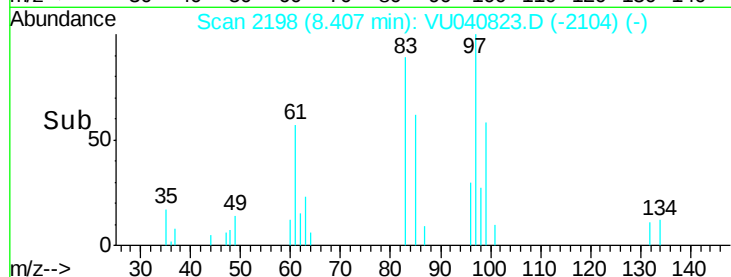
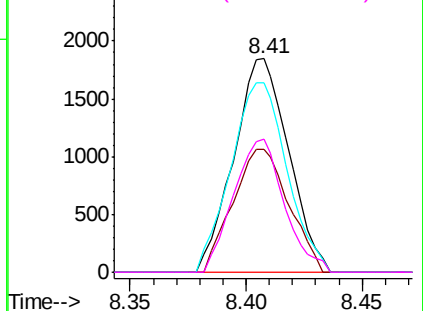


Abundance Ion 96.95 (96.65 to 97.65): VU040823.D (-2197) (-)

Ion 99.05 (98.75 to 99.75): VU040823.D (-2197) (-)

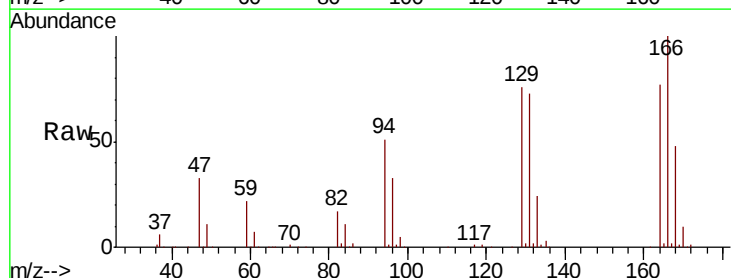
Ion 82.95 (82.65 to 83.65): VU040823.D (-2197) (-)

Ion 85.00 (84.70 to 85.70): VU040823.D (-2197) (-)



#47
Tetrachloroethene
Concen: 37.397 ug/L
RT: 8.56 min Scan# 2245
Delta R.T. 0.00 min
Lab File: VU040823.D
Acq: 19 Oct 2020 23:04

Tgt Ion:	164	Resp:	266068
Ion	Ratio	Lower	Upper
164	100		
129	98.1	68.8	127.8
131	94.4	66.7	123.9
166	129.6	83.9	155.7

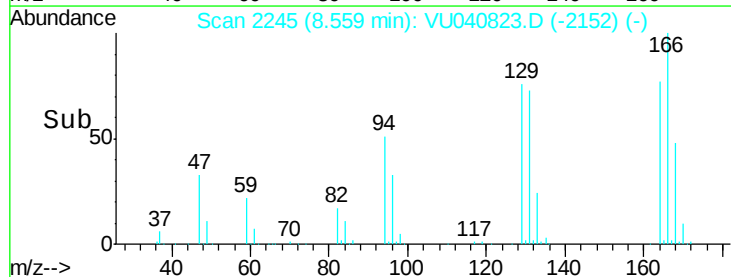
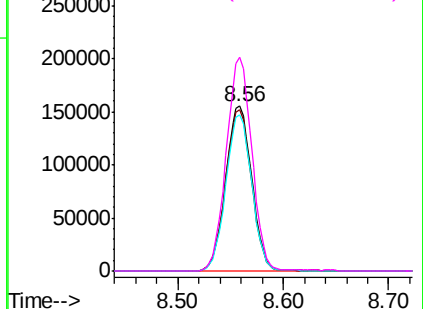


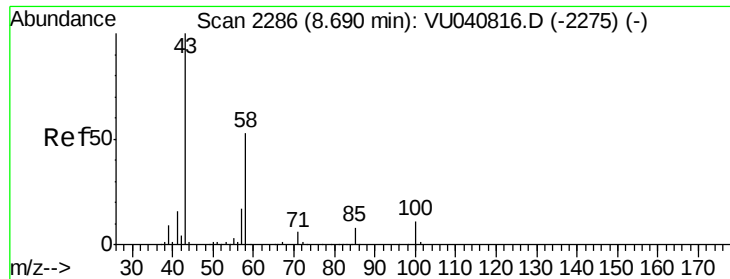
Abundance Ion 163.90 (163.60 to 164.60): VU040823.D (-2245) (-)

Ion 128.95 (128.65 to 129.65): VU040823.D (-2245) (-)

Ion 130.95 (130.65 to 131.65): VU040823.D (-2245) (-)

Ion 165.90 (165.60 to 166.60): VU040823.D (-2245) (-)

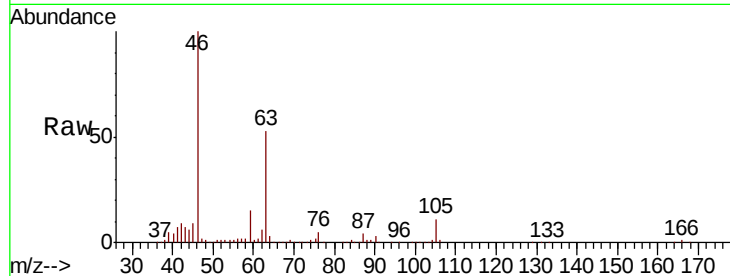




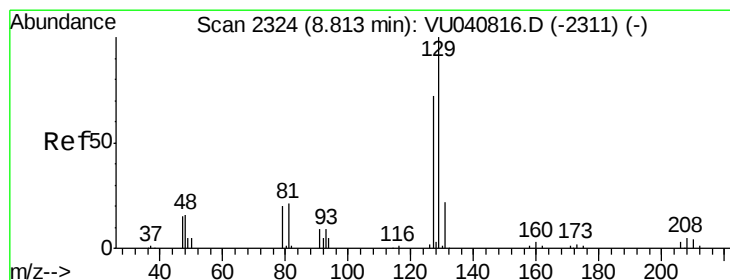
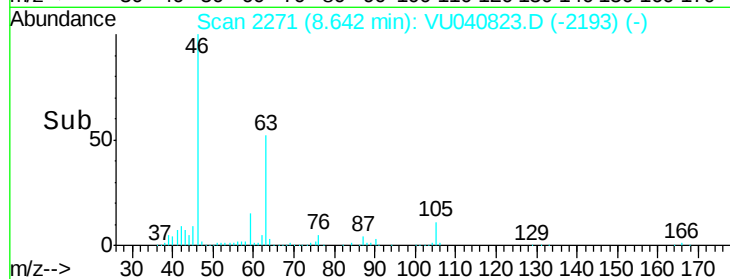
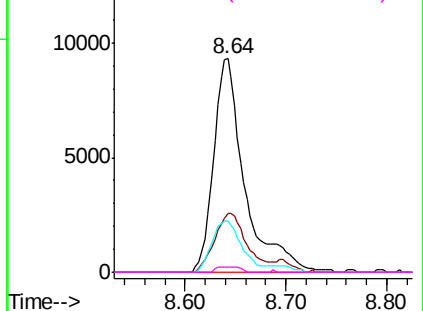
#48
2-Hexanone
Concen: 3.151 ug/L
RT: 8.64 min Scan# 2271
Delta R.T. -0.05 min
Lab File: VU040823.D
Acq: 19 Oct 2020 23:04

Instrument :
MSVOA_U
ClientSampleId :
C0AJ8

Tot Ion	Ratio	Lower	Upper
43	100		
58	28.7	41.0	61.6#
57	22.9	14.4	21.6#
100	2.0	8.6	13.0#

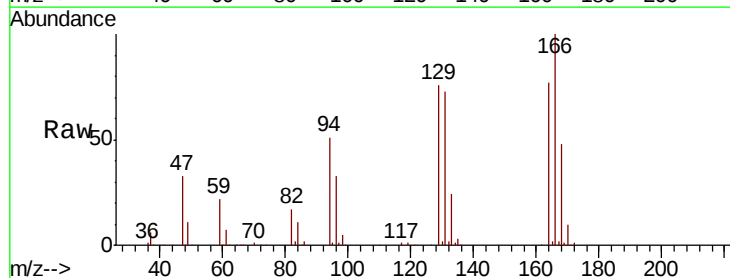


Abundance Ion 43.05 (42.75 to 43.75): VU040823.D (-2275) (-)

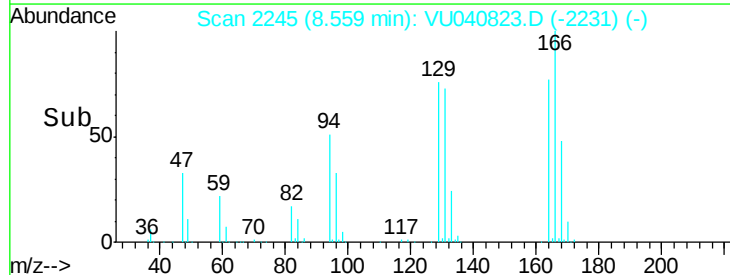
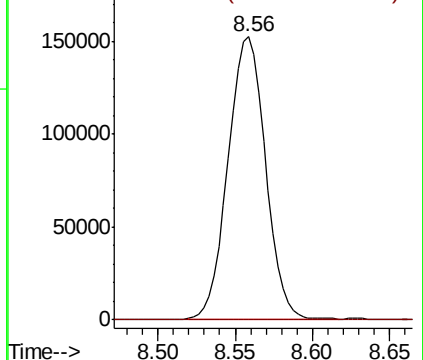


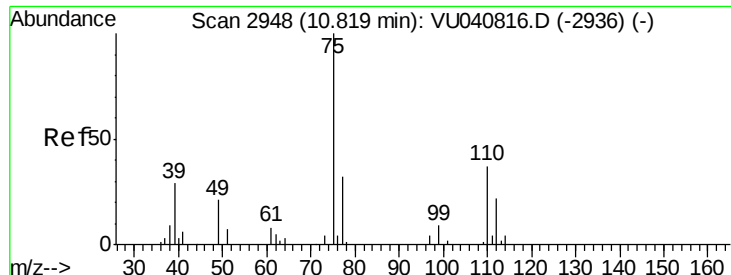
#49
Dibromochloromethane
Concen: 27.518 ug/L
RT: 8.56 min Scan# 2245
Delta R.T. -0.25 min
Lab File: VU040823.D
Acq: 19 Oct 2020 23:04

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



Abundance Ion 128.95 (128.65 to 129.65): VU040823.D (-2231) (-)





#59

1,2,3-Trichloropropane

Concen: 0.845 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.99 min

Lab File: VU040823.D

Acq: 19 Oct 2020 23:04

Instrument :

MSVOA_U

ClientSampleId :

C0AJ8

Tot Ion: 75 Resp: 6657

Ion Ratio Lower Upper

75 100

77 36.6 26.4 39.6

