

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U102120\
 Data File : VU040879.D
 Acq On : 21 Oct 2020 17:31
 Operator : SY/MD
 Sample : L4420-11
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 C0AK4

Quant Time: Oct 22 00:51:20 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102120WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Oct 22 00:42:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	236375	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	242693	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	103243	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	77083	4.76	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	95.20%
7) Chloroethane-d5	1.92	69	69109	4.89	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	97.80%
11) 1,1-Dichloroethene-d2	2.58	63	198930	5.77	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	115.40%
20) 2-Butanone-d5	4.65	46	330608	57.46	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	114.92%
24) Chloroform-d	5.08	84	163669	4.60	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.00%
26) 1,2-Dichloroethane-d4	5.72	65	106142	5.33	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	106.60%
32) Benzene-d6	5.74	84	295223	4.65	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.00%
36) 1,2-Dichloropropane-d6	6.70	67	104606	4.84	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	96.80%
41) Toluene-d8	7.91	98	232131	4.11	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	82.20%
43) trans-1,3-Dichloropropene-	8.19	79	39835	4.61	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	92.20%
46) 2-Hexanone-d5	8.64	63	252576	58.12	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	116.24%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	96283	5.24	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	104.80%
64) 1,2-Dichlorobenzene-d4	12.19	152	98910	5.45	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	109.00%

Target Compounds

					Ovalue
3) Chloromethane	1.53	50	1965	0.075 ug/L	96
5) Vinyl chloride	1.61	62	6093	0.252 ug/L #	23
10) 1,1,2-Trichloro-1,2,2-trif	2.58	101	1571	0.085 ug/L #	26
12) 1,1-Dichloroethene	2.59	96	145465	8.402 ug/L	89
13) Acetone	2.65	43	7122	1.761 ug/L	95
14) Carbon disulfide	2.81	76	5460	0.089 ug/L	98
17) Methyl tert-butyl Ether	3.38	73	8958	0.213 ug/L #	93
18) trans-1,2-Dichloroethene	3.37	96	9261	0.516 ug/L	87
19) 1,1-Dichloroethane	3.89	63	38467	1.065 ug/L	97
22) cis-1,2-Dichloroethene	4.69	96	256299	13.000 ug/L	97
25) Chloroform	5.10	83	3469	0.094 ug/L	85
27) 1,2-Dichloroethane	5.81	62	1817	0.072 ug/L #	73
29) 1,1,1-Trichloroethane	5.33	97	10273	0.326 ug/L	93
33) Benzene	5.79	78	1803	0.023 ug/L	100
34) Trichloroethene	6.56	95	304522	15.337 ug/L	99
35) Methylcyclohexane	6.70	83	24189	0.814 ug/L #	15
37) 1,2-Dichloropropane	6.70	63	11705	0.556 ug/L #	88

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU102120\
Data File : VU040879.D
Acq On : 21 Oct 2020 17:31
Operator : SY/MD
Sample : L4420-11
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
C0AK4

Quant Time: Oct 22 00:51:20 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102120WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 22 00:42:50 2020
Response via : Initial Calibration

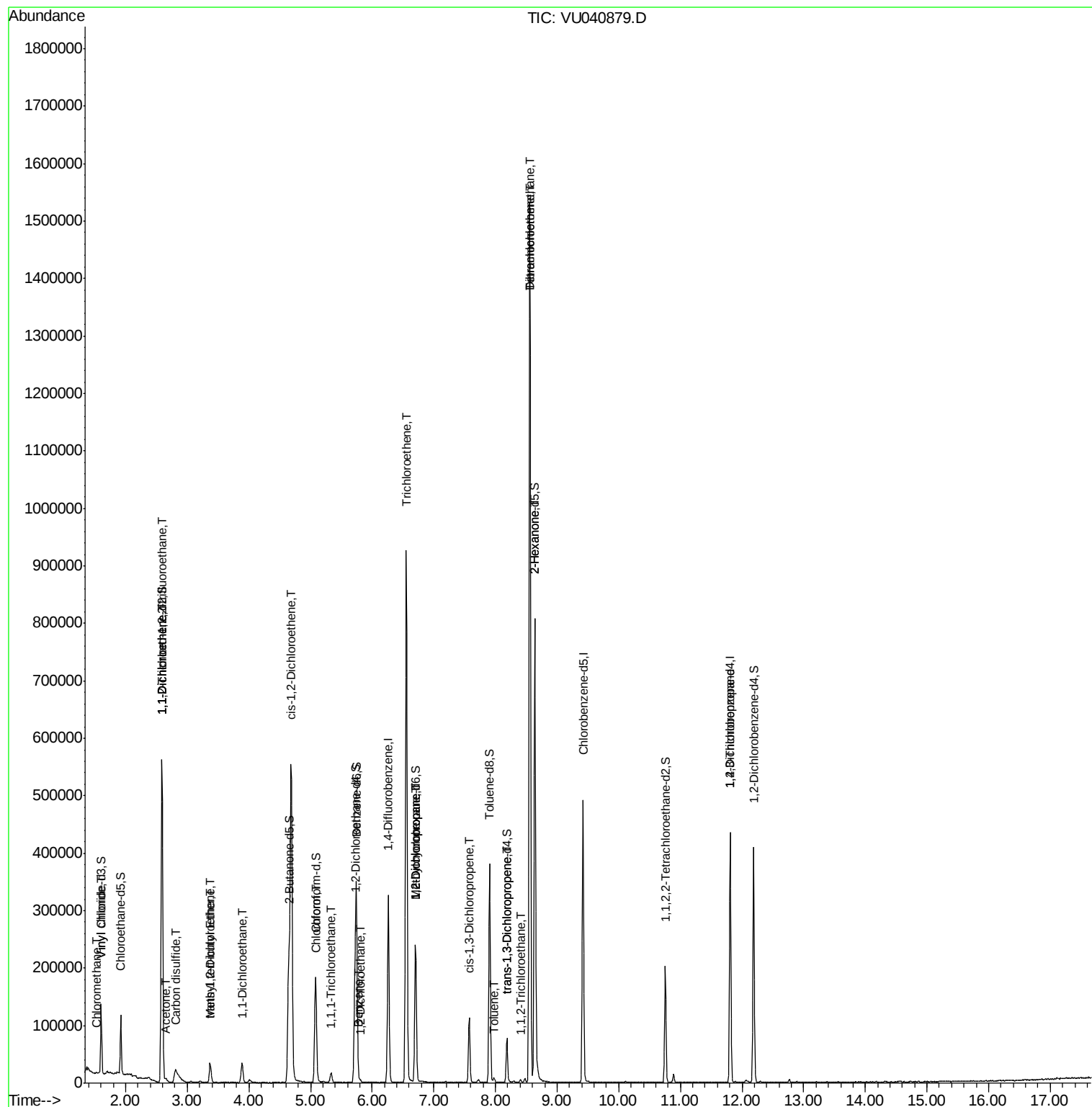
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) cis-1,3-Dichloropropene	7.58	75	2999	0.106	ug/L #	58
42) Toluene	7.97	91	4302	0.055	ug/L	93
44) trans-1,3-Dichloropropene	8.19	75	1893	0.074	ug/L #	58
45) 1,1,2-Trichloroethane	8.41	97	1577	0.110	ug/L #	79
47) Tetrachloroethene	8.56	164	310424	21.007	ug/L	98
48) 2-Hexanone	8.64	43	35263	3.429	ug/L #	69
49) Dibromochloromethane	8.56	129	310471	18.131	ug/L #	9
59) 1,2,3-Trichloropropane	11.81	75	14276	1.043	ug/L	94

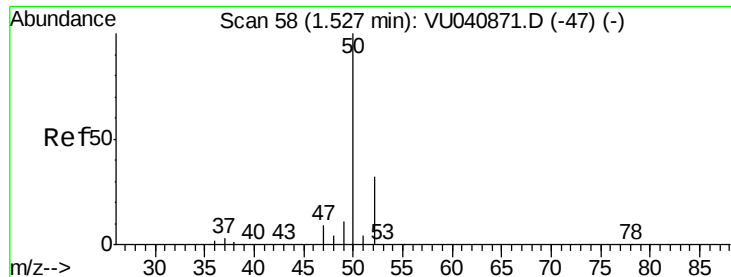
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU102120\
Data File : VU040879.D
Acq On : 21 Oct 2020 17:31
Operator : SY/MD
Sample : L4420-11
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
C0AK4

Quant Time: Oct 22 00:51:20 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102120WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 22 00:42:50 2020
Response via : Initial Calibration





#3

Chloromethane

Concen: 0.075 ug/L

RT: 1.53 min Scan# 58

Delta R.T. -0.00 min

Lab File: VU040879.D

Acq: 21 Oct 2020 17:31

Instrument :

MSVOA_U

ClientSampleId :

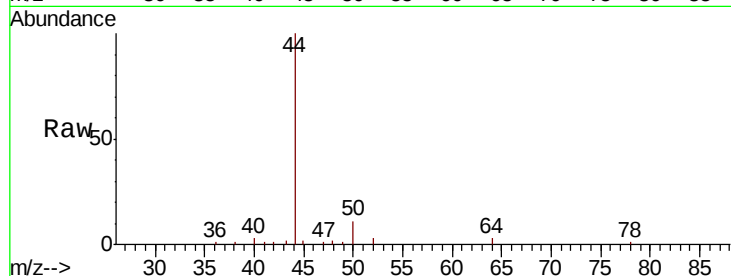
C0AK4

Tot Ion: 50 Resp: 1965

Ion Ratio Lower Upper

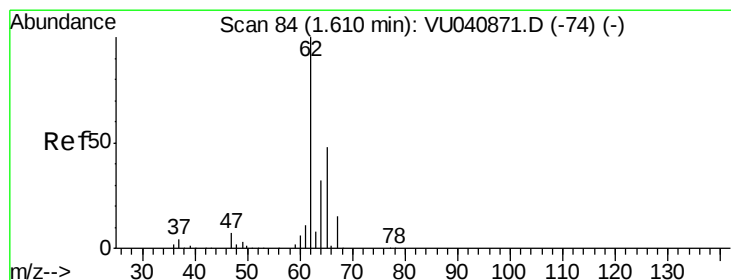
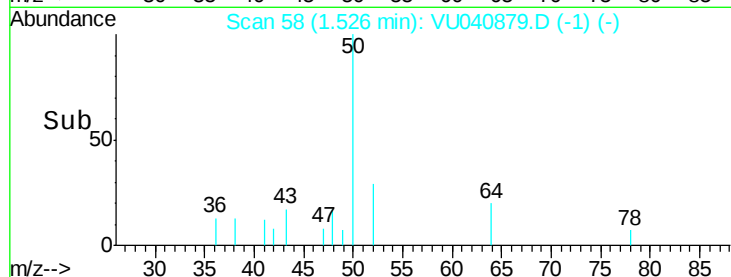
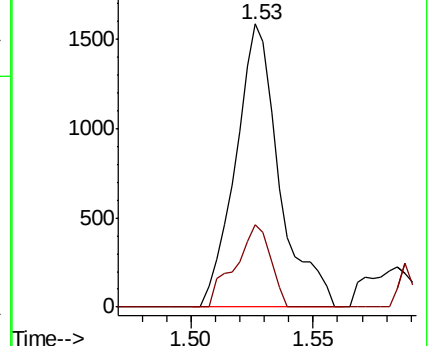
50 100

52 28.9 21.8 40.6



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0



#5

Vinyl chloride

Concen: 0.252 ug/L

RT: 1.61 min Scan# 84

Delta R.T. -0.00 min

Lab File: VU040879.D

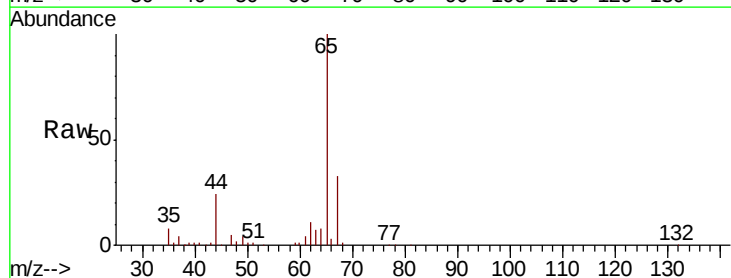
Acq: 21 Oct 2020 17:31

Tgt Ion: 62 Resp: 6093

Ion Ratio Lower Upper

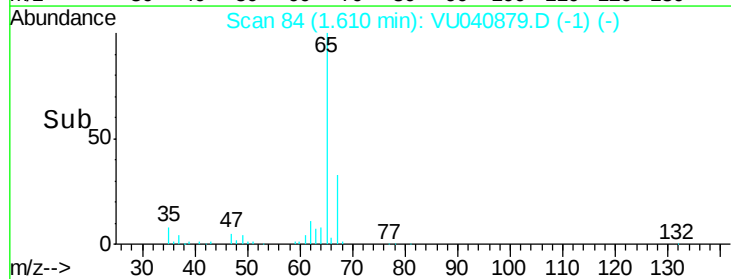
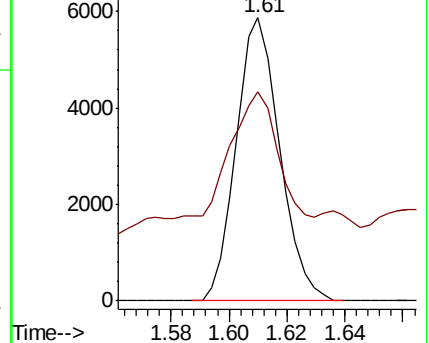
62 100

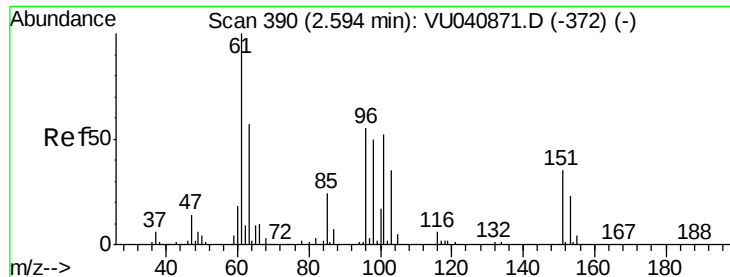
64 73.9 21.8 40.6#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0





#10

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

Concen: 0.085 ug/L

RT: 2.58 min Scan# 386

Delta R.T. -0.01 min

Lab File: VU040879.D

Acq: 21 Oct 2020 17:31

Instrument :

MSVOA_U

ClientSampleId :

C0AK4

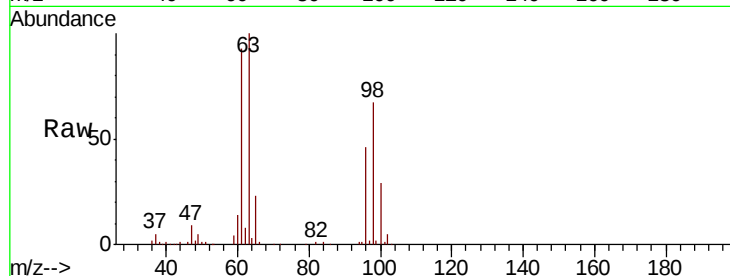
Tot Ion:101 Resp: 1571

Ion Ratio Lower Upper

101 100

85 8.3 36.4 54.6#

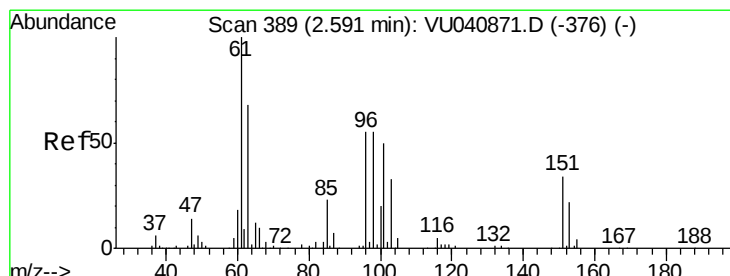
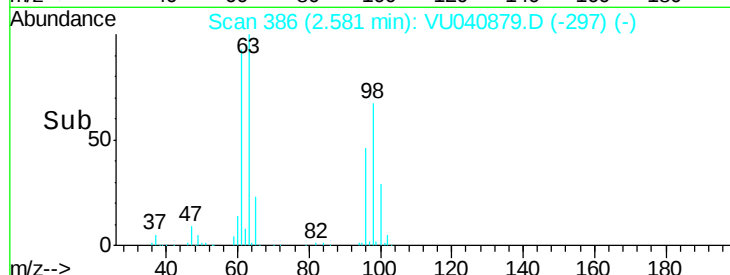
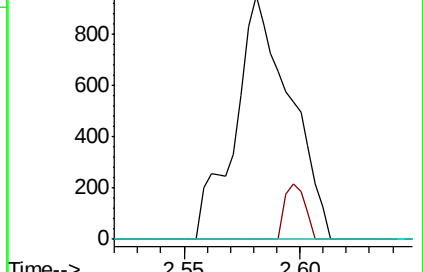
151 0.0 56.3 84.5#



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: 8.402 ug/L

RT: 2.59 min Scan# 390

Delta R.T. 0.00 min

Lab File: VU040879.D

Acq: 21 Oct 2020 17:31

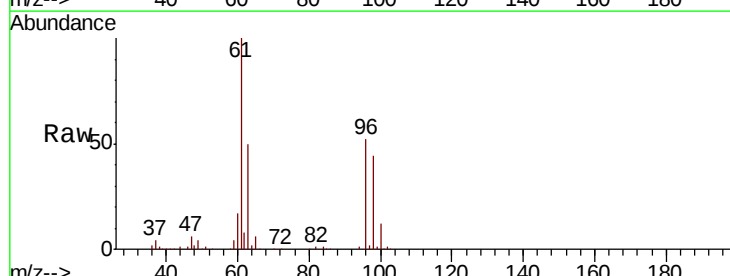
Tgt Ion: 96 Resp: 145465

Ion Ratio Lower Upper

96 100

61 191.0 130.9 243.1

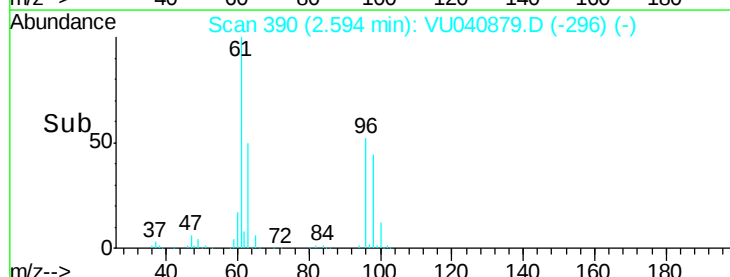
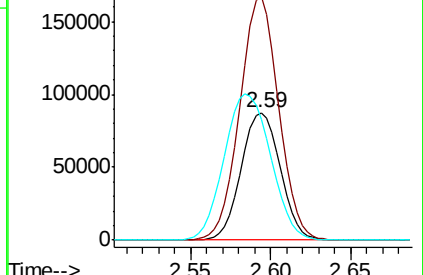
63 94.8 85.4 158.6

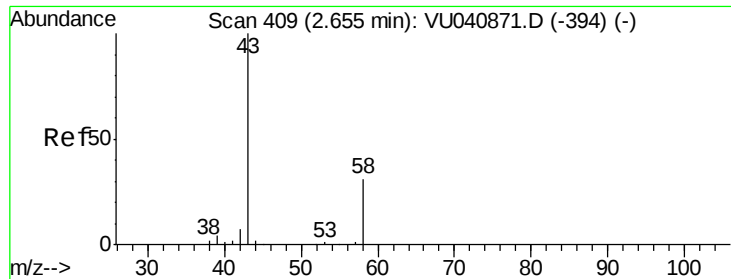


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 1.761 ug/L

RT: 2.65 min Scan# 409

Delta R.T. -0.00 min

Lab File: VU040879.D

Acq: 21 Oct 2020 17:31

Instrument :

MSVOA_U

ClientSampleId :

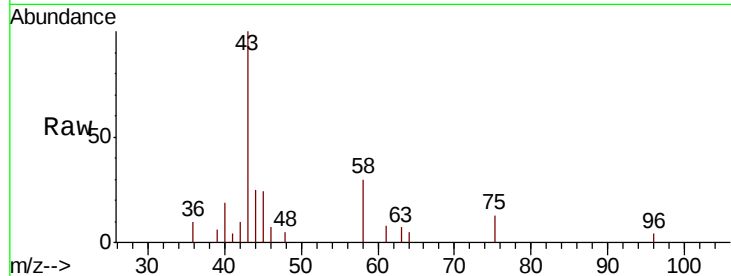
C0AK4

Tot Ion: 43 Resp: 7122

Ion Ratio Lower Upper

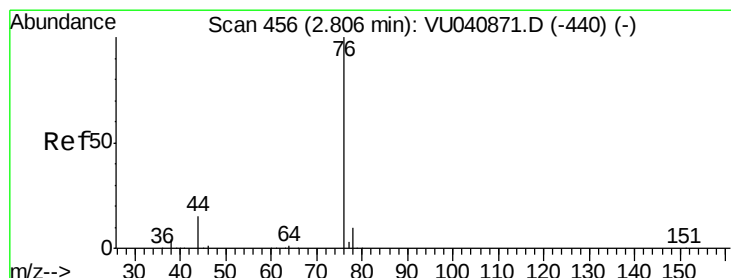
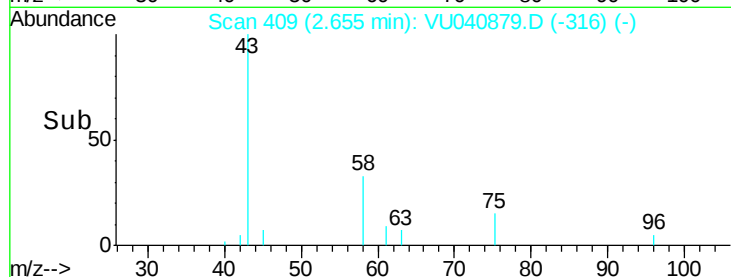
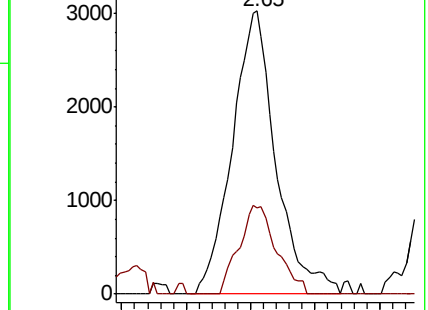
43 100

58 26.7 0.0 58.6



Abundance Ion 43.05 (42.75 to 43.75): VU040879.D (-316) (-)

Ion 58.05 (57.75 to 58.75): VU040879.D (-316) (-)



#14

Carbon disulfide

Concen: 0.089 ug/L

RT: 2.81 min Scan# 457

Delta R.T. 0.00 min

Lab File: VU040879.D

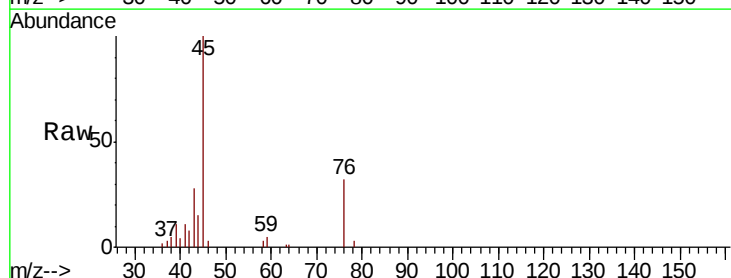
Acq: 21 Oct 2020 17:31

Tgt Ion: 76 Resp: 5460

Ion Ratio Lower Upper

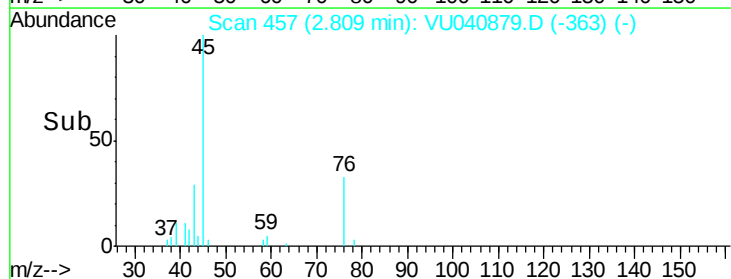
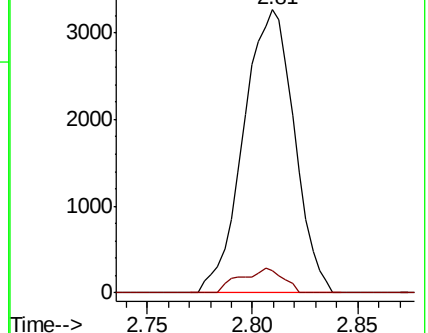
76 100

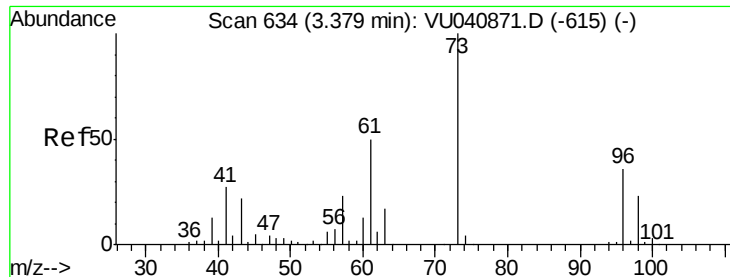
78 7.8 6.8 10.2



Abundance Ion 76.05 (75.75 to 76.75): VU040879.D (-363) (-)

Ion 78.00 (77.70 to 78.70): VU040879.D (-363) (-)

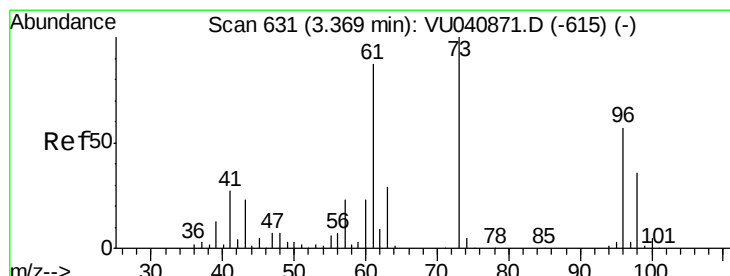
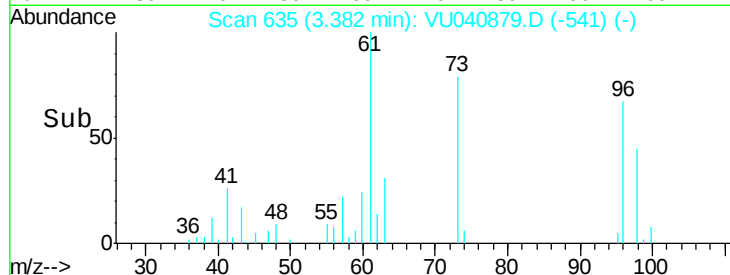
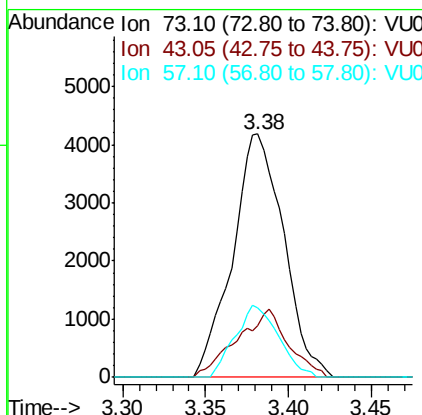
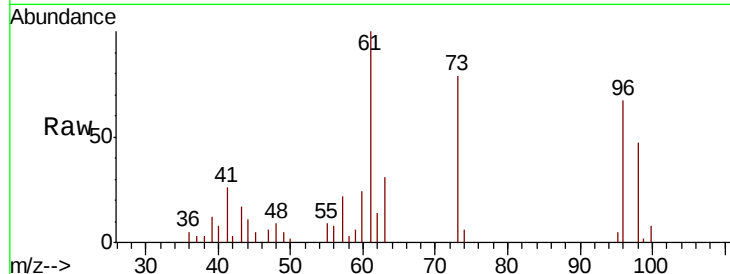




#17
Methvl tert-butvl Ether
Concen: 0.213 ug/L
RT: 3.38 min Scan# 635
Delta R.T. 0.00 min
Lab File: VU040879.D
Acq: 21 Oct 2020 17:31

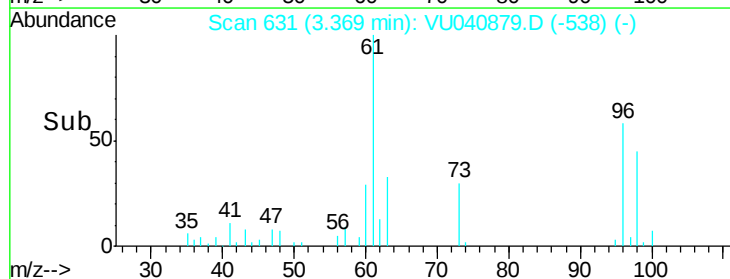
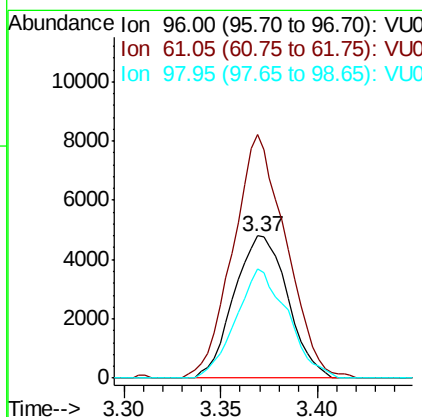
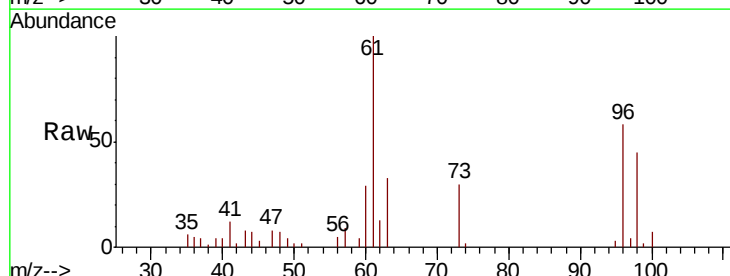
Instrument :
MSVOA_U
ClientSampleId :
C0AK4

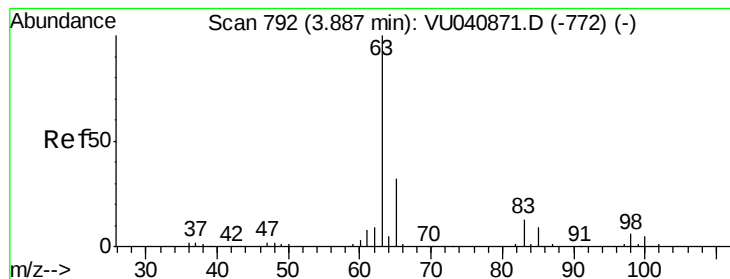
Tot Ion: 73 Resp: 8958
Ion Ratio Lower Upper
73 100
43 28.0 18.6 27.8#
57 25.2 18.5 27.7



#18
trans-1,2-Dichloroethene
Concen: 0.516 ug/L
RT: 3.37 min Scan# 631
Delta R.T. -0.00 min
Lab File: VU040879.D
Acq: 21 Oct 2020 17:31

Tgt Ion: 96 Resp: 9261
Ion Ratio Lower Upper
96 100
61 171.2 107.9 200.3
98 76.5 47.5 88.1





#19

1,1-Dichloroethane

Concen: 1.065 ug/L

RT: 3.89 min Scan# 793

Delta R.T. 0.00 min

Lab File: VU040879.D

Acq: 21 Oct 2020 17:31

Instrument :

MSVOA_U

ClientSampleId :

C0AK4

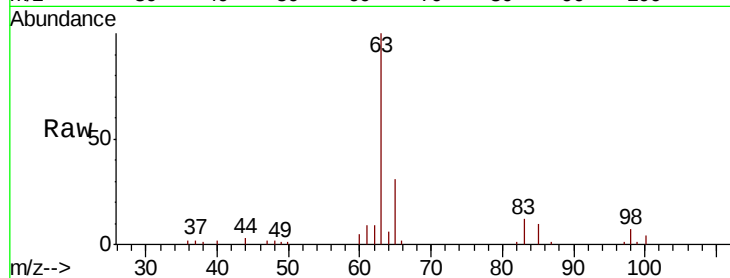
Tot Ion: 63 Resp: 38467

Ion Ratio Lower Upper

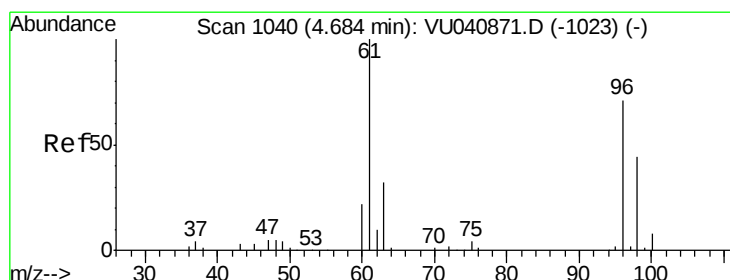
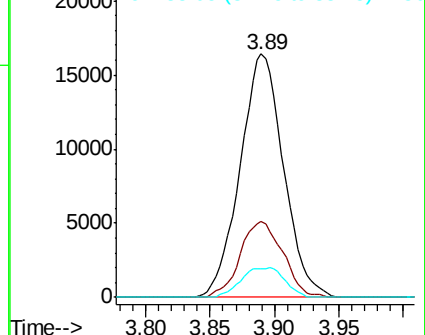
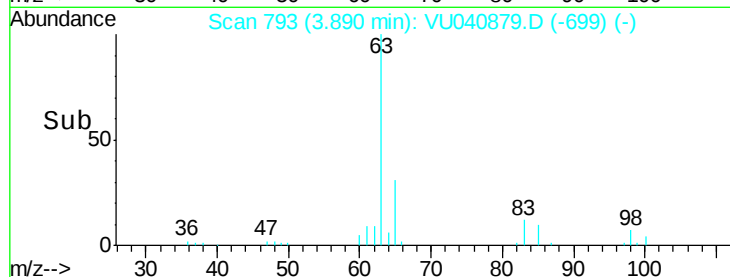
63 100

65 31.3 22.6 42.0

83 11.5 9.4 17.6



Abundance Ion 63.10 (62.80 to 63.80): VU040879.D (-699) (-)



#22

cis-1,2-Dichloroethene

Concen: 13.000 ug/L

RT: 4.69 min Scan# 1041

Delta R.T. 0.00 min

Lab File: VU040879.D

Acq: 21 Oct 2020 17:31

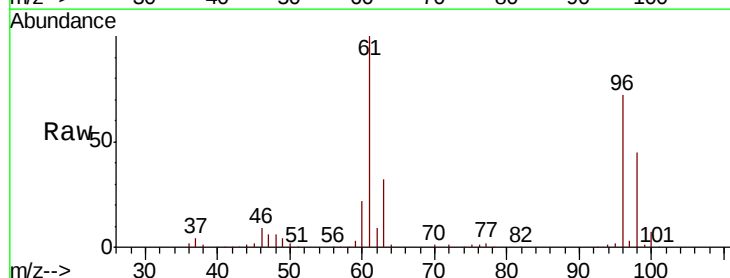
Tgt Ion: 96 Resp: 256299

Ion Ratio Lower Upper

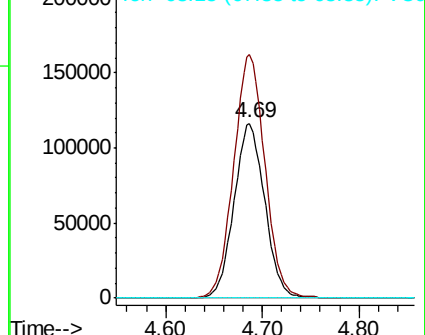
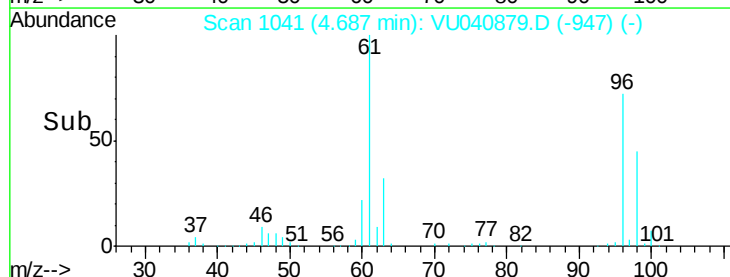
96 100

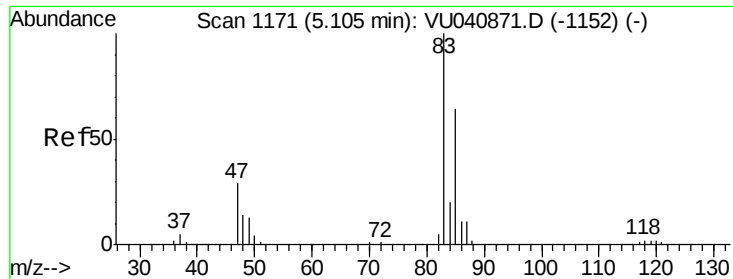
61 139.4 100.0 185.6

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU040879.D (-947) (-)

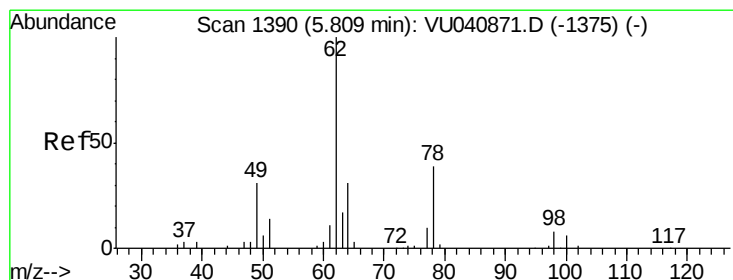
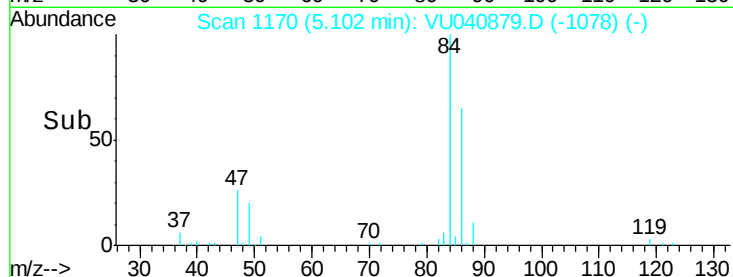
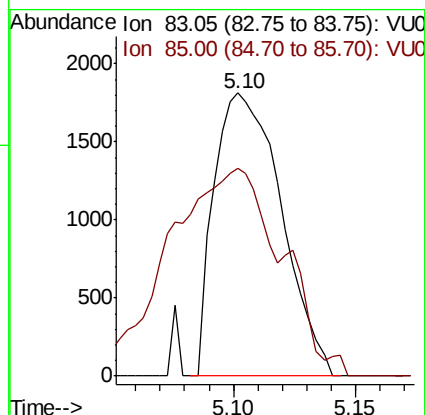
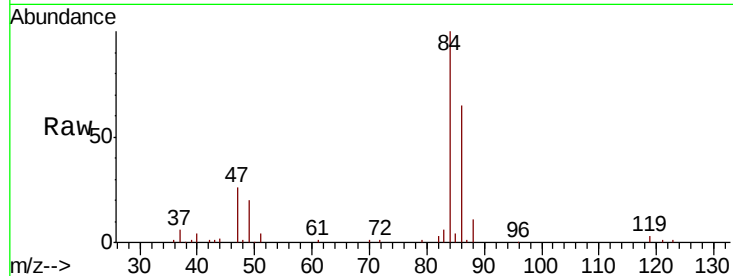




#25
Chloroform
Concen: 0.094 ug/L
RT: 5.10 min Scan# 1170
Delta R.T. -0.00 min
Lab File: VU040879.D
Acq: 21 Oct 2020 17:31

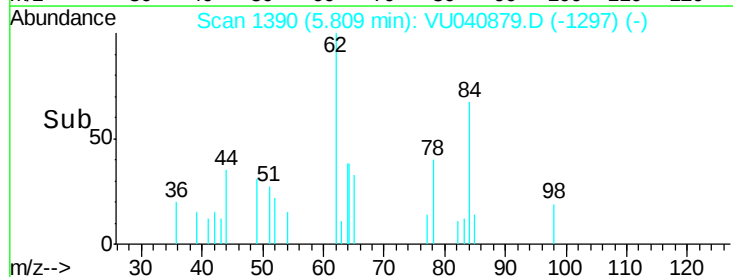
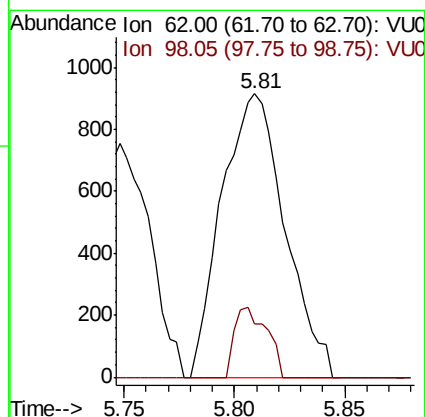
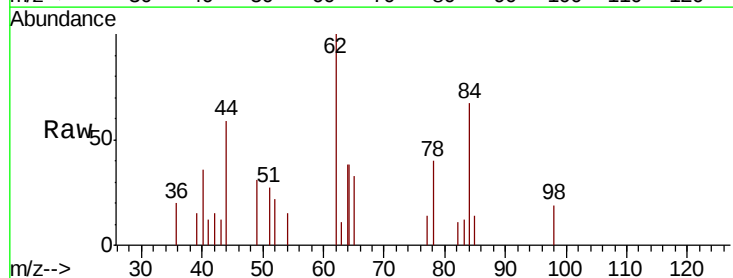
Instrument :
MSVOA_U
ClientSampleId :
C0AK4

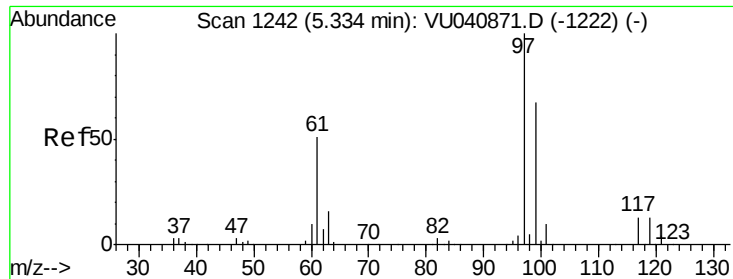
Tot Ion: 83 Resp: 3469
Ion Ratio Lower Upper
83 100
85 73.3 43.4 80.6



#27
1,2-Dichloroethane
Concen: 0.072 ug/L
RT: 5.81 min Scan# 1390
Delta R.T. -0.00 min
Lab File: VU040879.D
Acq: 21 Oct 2020 17:31

Tgt Ion: 62 Resp: 1817
Ion Ratio Lower Upper
62 100
98 18.6 7.0 10.6#

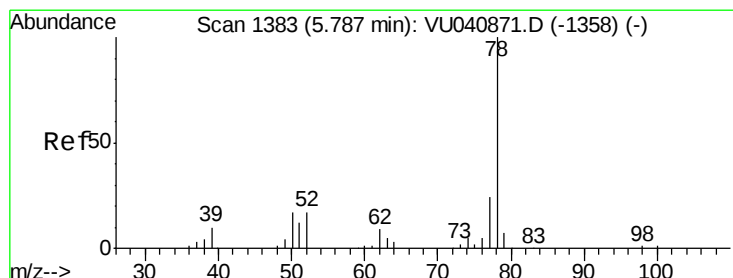
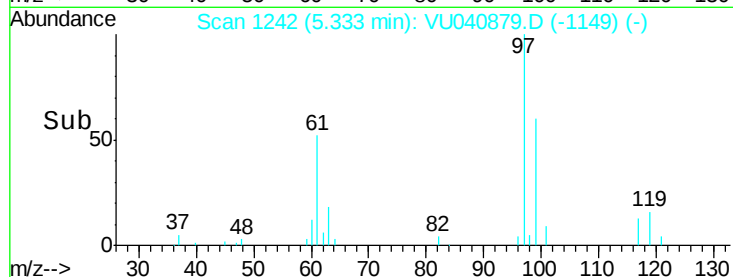
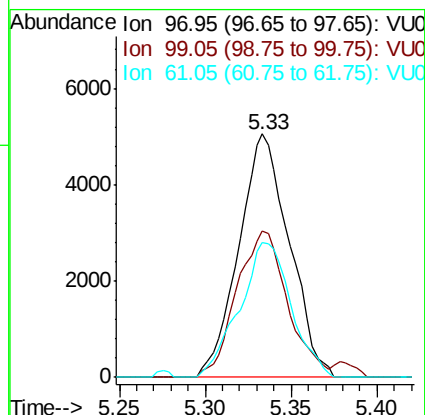
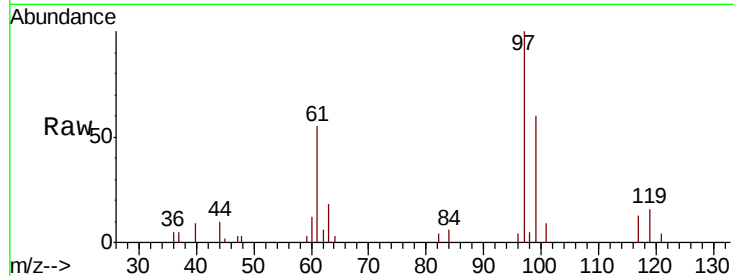




#29
 1,1,1-Trichloroethane
 Concen: 0.326 ug/L
 RT: 5.33 min Scan# 1242
 Delta R.T. -0.00 min
 Lab File: VU040879.D
 Acq: 21 Oct 2020 17:31

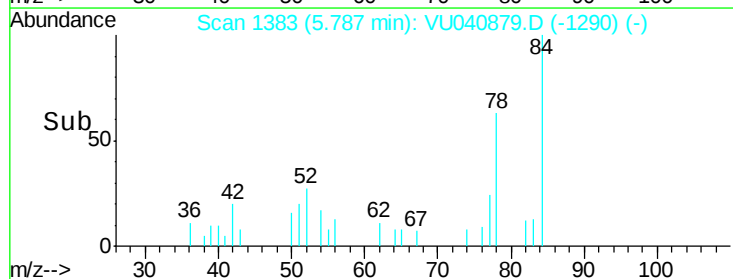
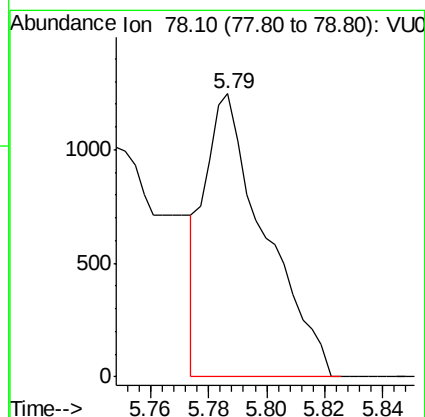
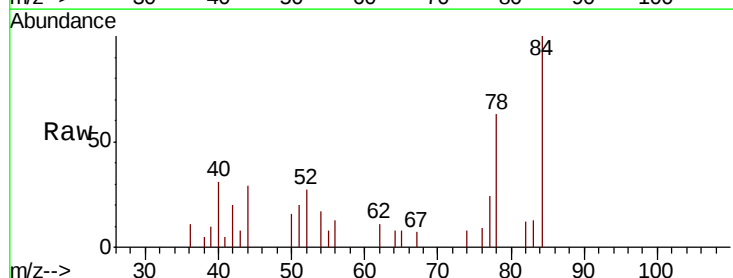
Instrument :
 MSVOA_U
 ClientSampleId :
 C0AK4

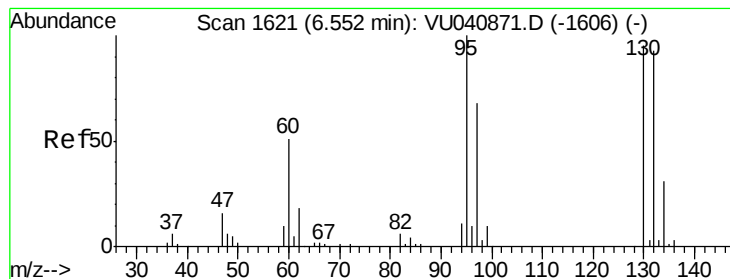
Tot Ion: 97 Resp: 10273
 Ion Ratio Lower Upper
 97 100
 99 61.0 51.2 76.8
 61 56.9 39.0 58.6



#33
 Benzene
 Concen: 0.023 ug/L
 RT: 5.79 min Scan# 1383
 Delta R.T. -0.00 min
 Lab File: VU040879.D
 Acq: 21 Oct 2020 17:31

Tgt Ion: 78 Resp: 1803





#34

Trichloroethene

Concen: 15.337 ug/L

RT: 6.56 min Scan# 1622

Delta R.T. 0.00 min

Lab File: VU040879.D

Acq: 21 Oct 2020 17:31

Instrument :

MSVOA_U

ClientSampleId :

C0AK4

Tot Ion: 95 Resp: 304522

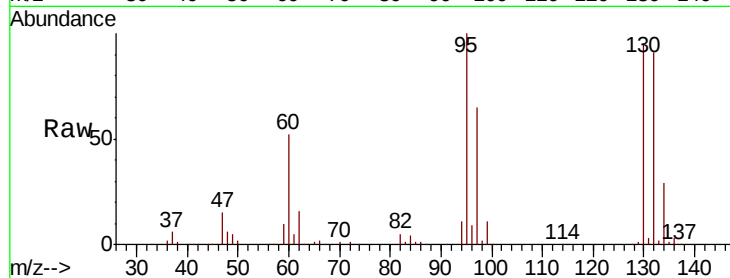
Ion Ratio Lower Upper

95 100

97 65.5 46.0 85.4

132 91.1 63.6 118.2

130 94.6 68.6 127.4

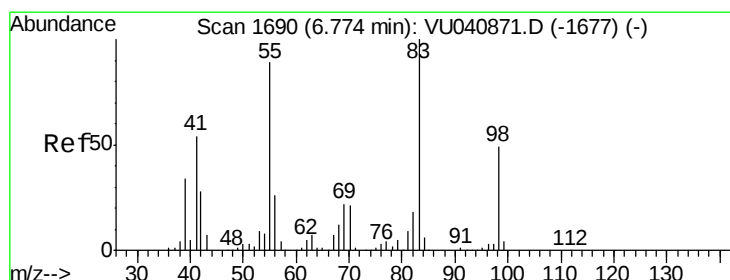
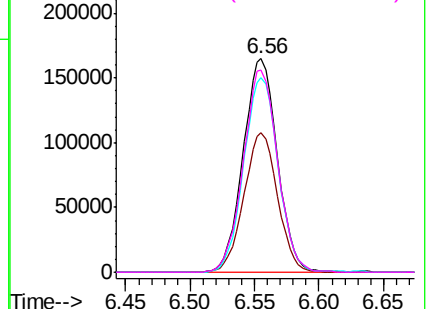
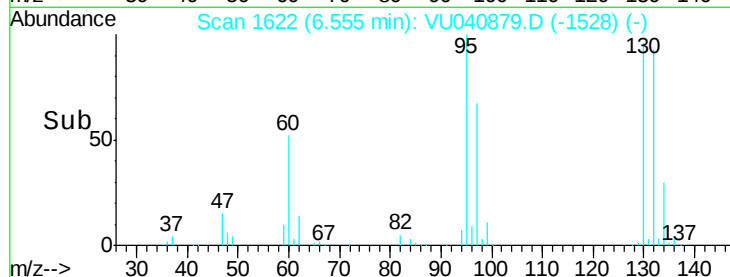


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 0.814 ug/L

RT: 6.70 min Scan# 1668

Delta R.T. -0.07 min

Lab File: VU040879.D

Acq: 21 Oct 2020 17:31

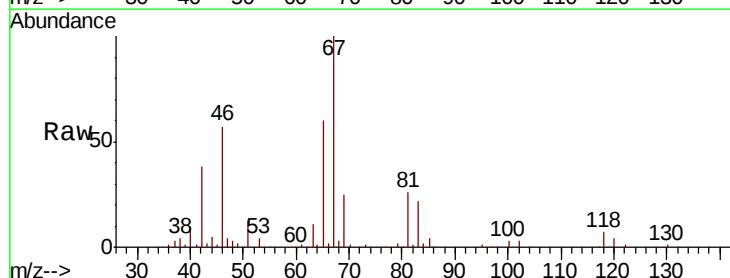
Tgt Ion: 83 Resp: 24189

Ion Ratio Lower Upper

83 100

55 0.7 69.1 103.7#

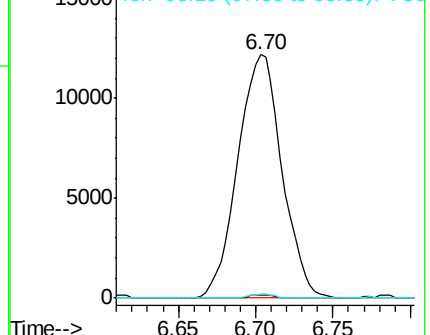
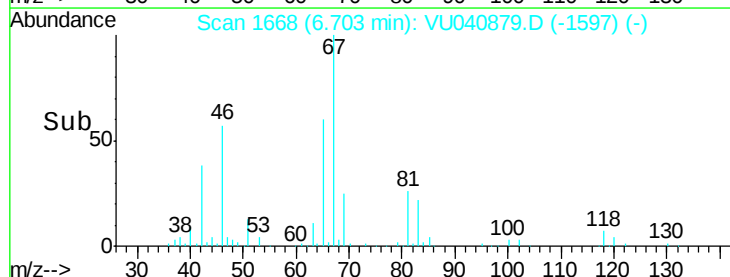
98 0.0 37.8 56.6#

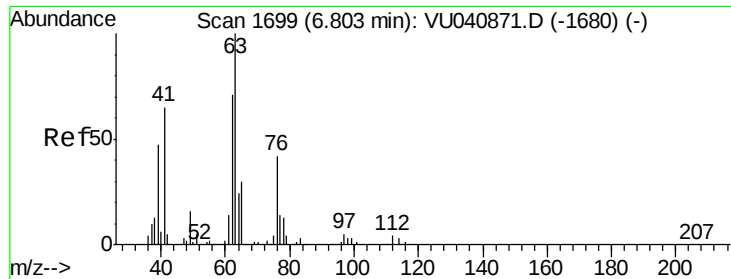


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 0.556 ug/L

RT: 6.70 min Scan# 1668

Delta R.T. -0.10 min

Lab File: VU040879.D

Acq: 21 Oct 2020 17:31

Instrument :

MSVOA_U

ClientSampleId :

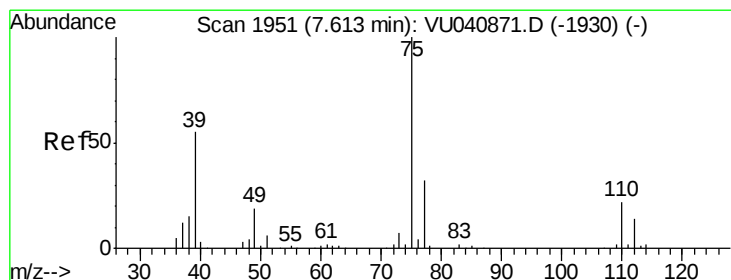
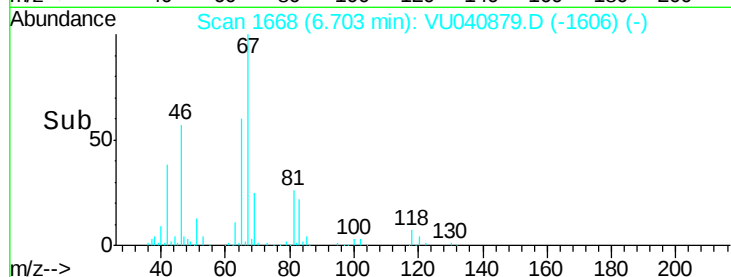
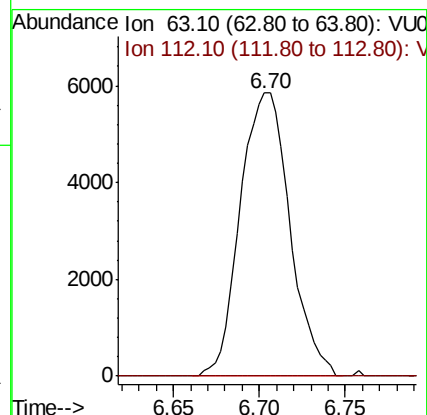
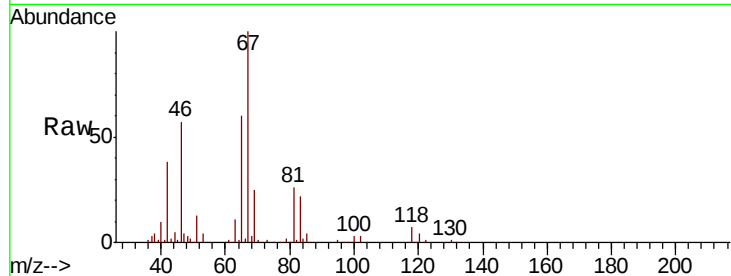
C0AK4

Tot Ion: 63 Resp: 11705

Ion Ratio Lower Upper

63 100

112 0.0 3.0 4.6#



#39

cis-1,3-Dichloropropene

Concen: 0.106 ug/L

RT: 7.58 min Scan# 1940

Delta R.T. -0.04 min

Lab File: VU040879.D

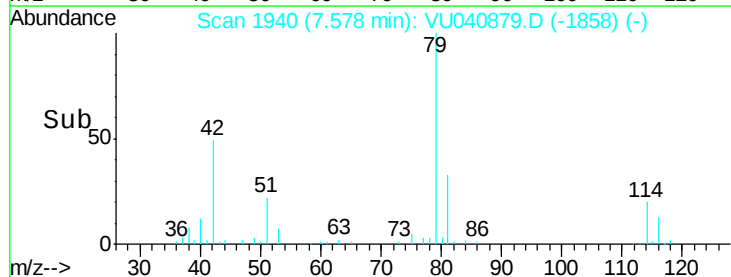
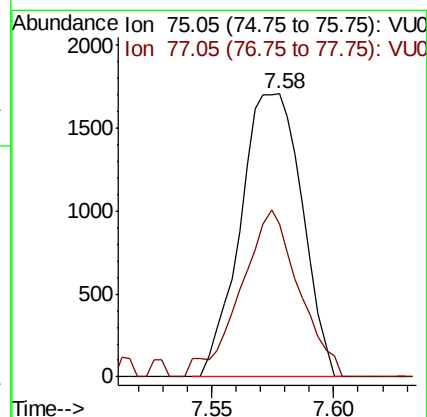
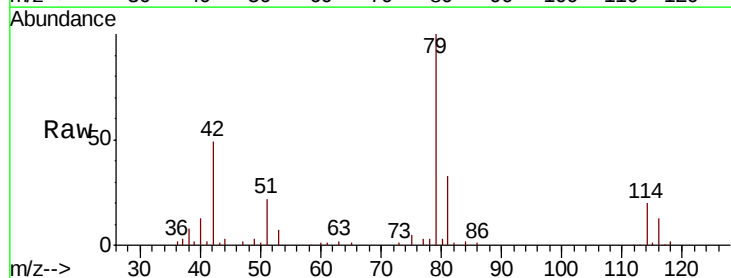
Acq: 21 Oct 2020 17:31

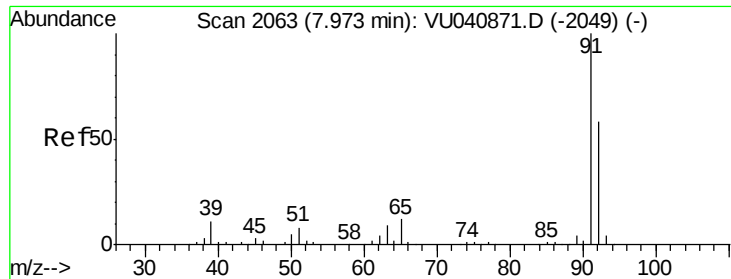
Tgt Ion: 75 Resp: 2999

Ion Ratio Lower Upper

75 100

77 54.0 21.6 40.2#





#42

Toluene

Concen: 0.055 ug/L

RT: 7.97 min Scan# 2063

Delta R.T. -0.00 min

Lab File: VU040879.D

Acq: 21 Oct 2020 17:31

Instrument :

MSVOA_U

ClientSampleId :

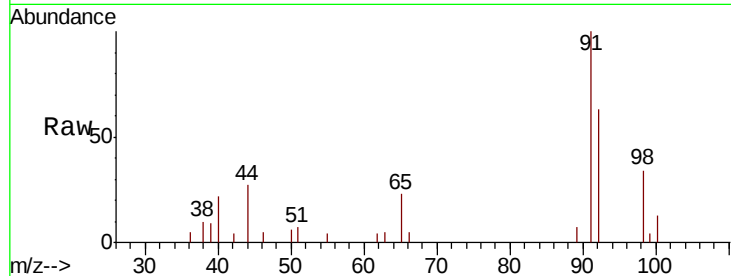
C0AK4

Tot Ion: 91 Resp: 4302

Ion Ratio Lower Upper

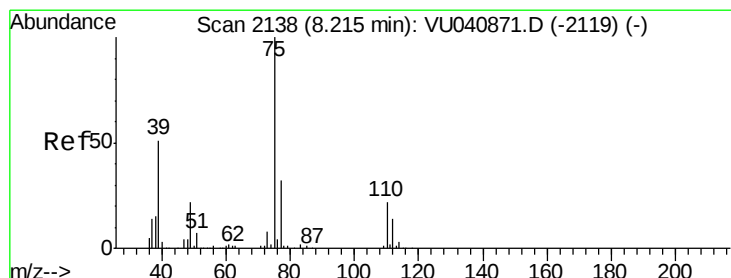
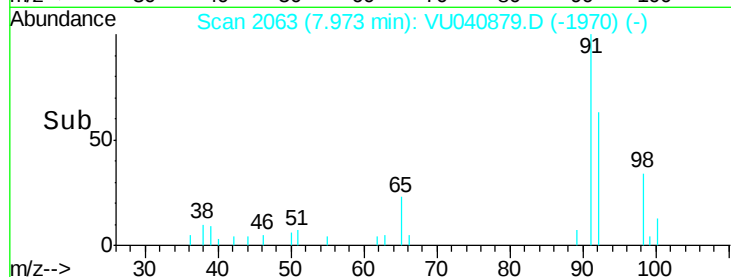
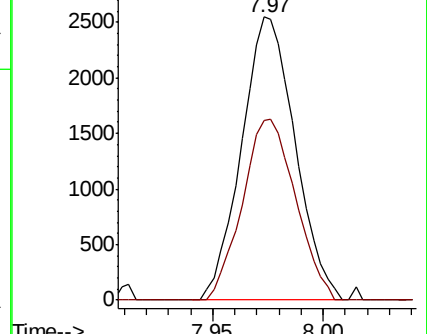
91 100

92 63.3 40.6 75.4



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 92.15 (91.85 to 92.85): VU0



#44

trans-1,3-Dichloropropene

Concen: 0.074 ug/L

RT: 8.19 min Scan# 2131

Delta R.T. -0.02 min

Lab File: VU040879.D

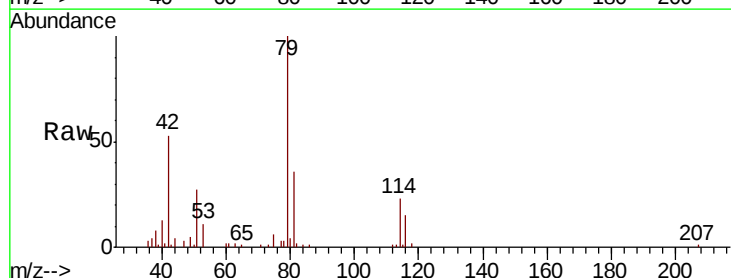
Acq: 21 Oct 2020 17:31

Tgt Ion: 75 Resp: 1893

Ion Ratio Lower Upper

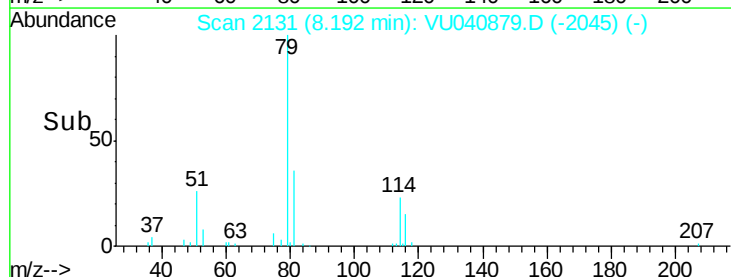
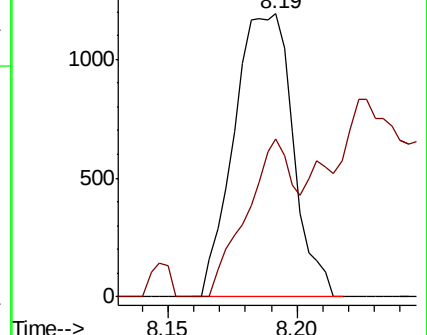
75 100

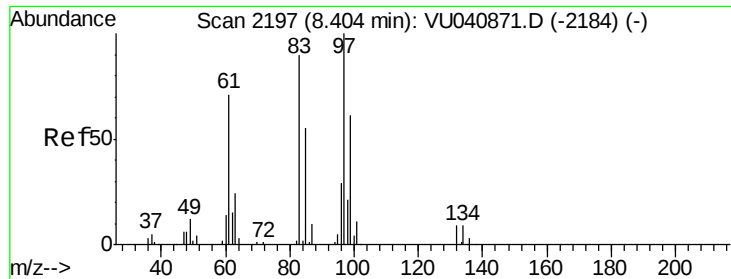
77 56.0 22.6 42.0#



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0

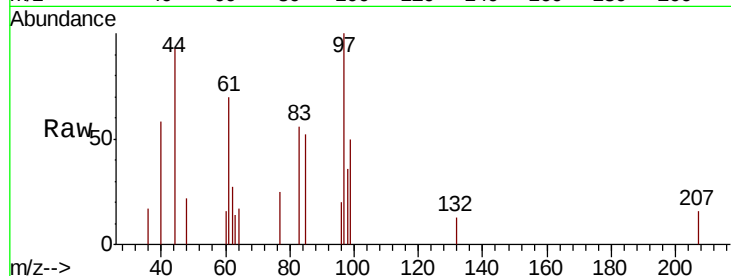




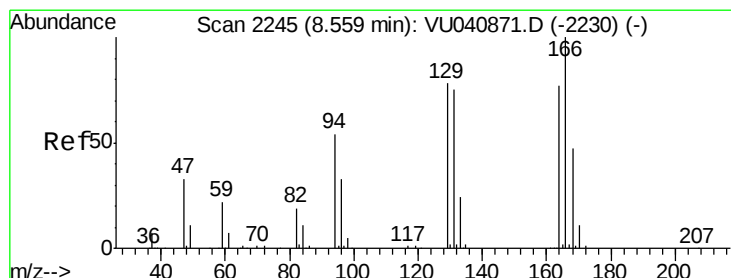
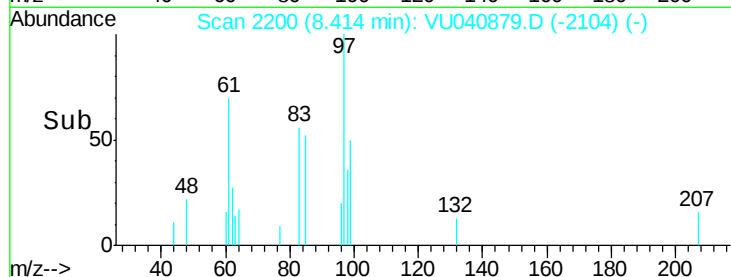
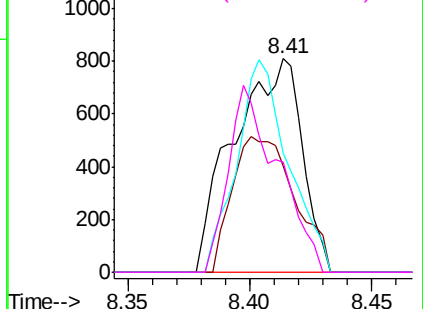
#45
 1,1,2-Trichloroethane
 Concen: 0.110 ug/L
 RT: 8.41 min Scan# 2200
 Delta R.T. 0.01 min
 Lab File: VU040879.D
 Acq: 21 Oct 2020 17:31

Instrument :
 MSVOA_U
 ClientSampleId :
 C0AK4

Tot Ion: 97 Resp: 1577
 Ion Ratio Lower Upper
 97 100
 99 49.5 42.1 78.1
 83 56.0 62.0 115.2#
 85 51.6 40.3 74.8

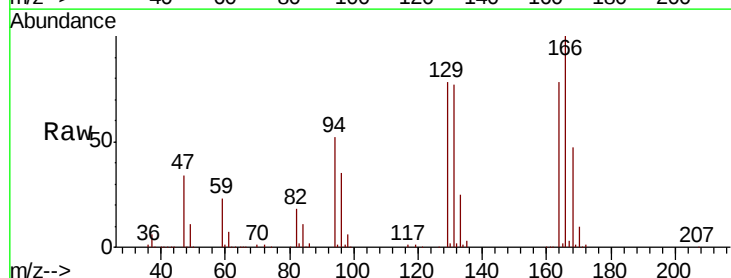


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 82.95 (82.65 to 83.65): VU0
 Ion 85.00 (84.70 to 85.70): VU0

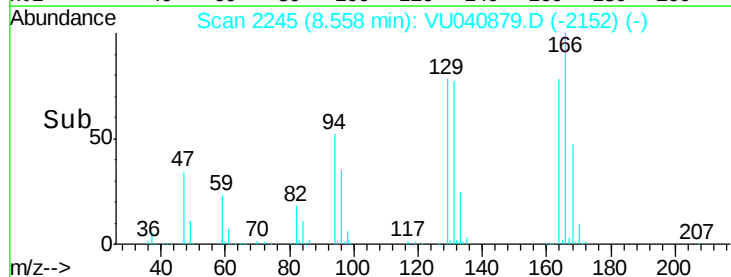
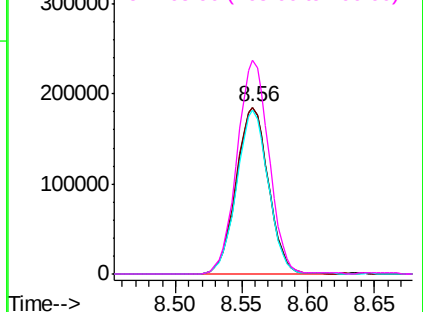


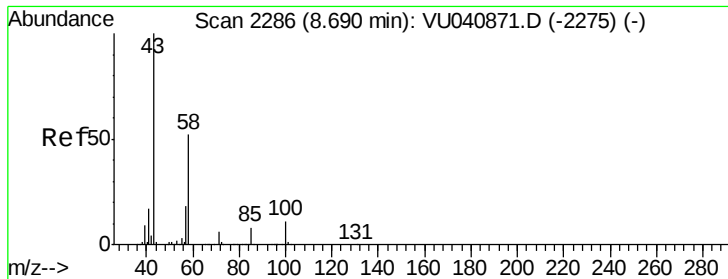
#47
 Tetrachloroethene
 Concen: 21.007 ug/L
 RT: 8.56 min Scan# 2245
 Delta R.T. -0.00 min
 Lab File: VU040879.D
 Acq: 21 Oct 2020 17:31

Tgt Ion: 164 Resp: 310424
 Ion Ratio Lower Upper
 164 100
 129 100.1 69.7 129.4
 131 98.3 65.4 121.4
 166 128.3 90.0 167.2



Abundance Ion 163.90 (163.60 to 164.60): V
 Ion 128.95 (128.65 to 129.65): V
 Ion 130.95 (130.65 to 131.65): V
 Ion 165.90 (165.60 to 166.60): V

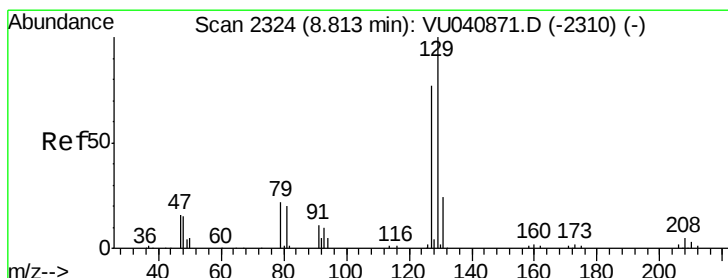
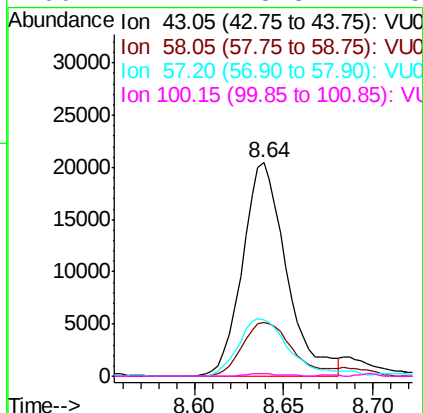
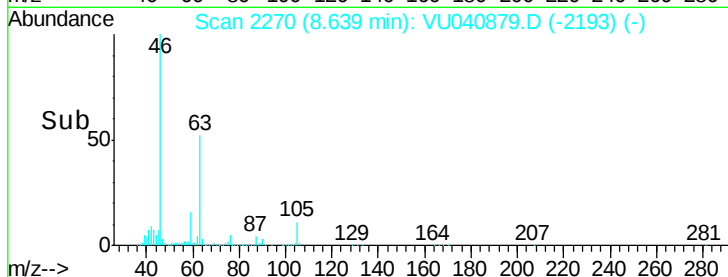
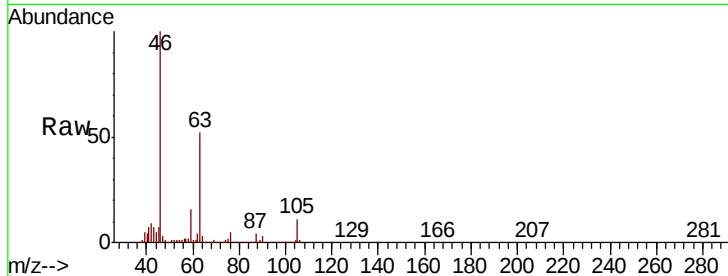




#48
2-Hexanone
Concen: 3.429 ug/L
RT: 8.64 min Scan# 2270
Delta R.T. -0.05 min
Lab File: VU040879.D
Acq: 21 Oct 2020 17:31

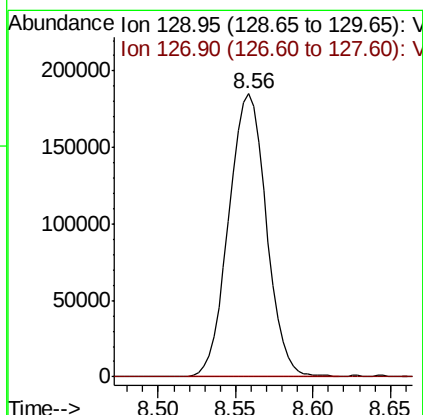
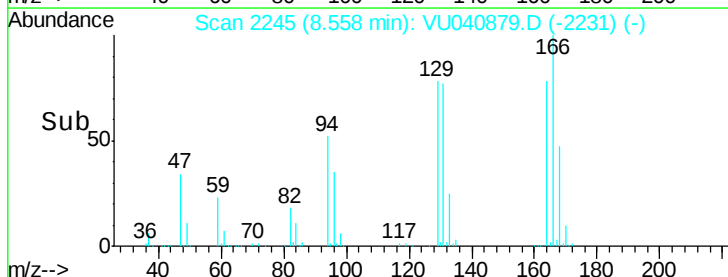
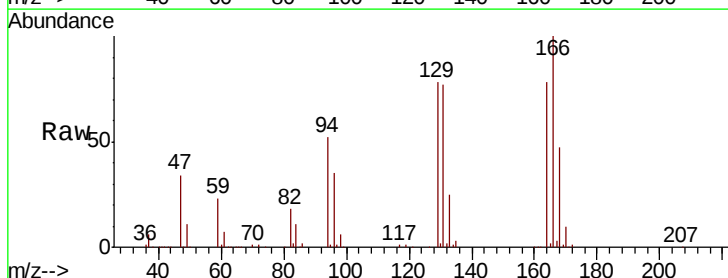
Instrument :
MSVOA_U
ClientSampleId :
C0AK4

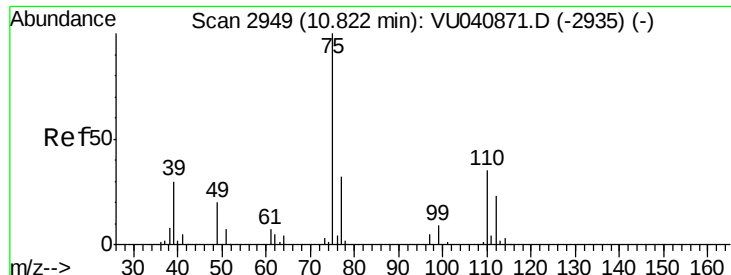
Tot Ion	Ratio	Lower	Upper
43	100		
58	28.6	40.9	61.3#
57	31.7	14.4	21.6#
100	1.1	8.3	12.5#



#49
Dibromochloromethane
Concen: 18.131 ug/L
RT: 8.56 min Scan# 2245
Delta R.T. -0.25 min
Lab File: VU040879.D
Acq: 21 Oct 2020 17:31

Tgt Ion	Ratio	Lower	Upper
129	100		
127	0.0	55.9	103.9#





#59

1,2,3-Trichloropropane

Concen: 1.043 ug/L

RT: 11.81 min Scan# 3256

Delta R.T. 0.99 min

Lab File: VU040879.D

Acq: 21 Oct 2020 17:31

Instrument :

MSVOA_U

ClientSampleId :

C0AK4

Tot Ion: 75 Resp: 14276

Ion Ratio Lower Upper

75 100

77 38.1 27.5 41.3

