

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U102120\
 Data File : VU040902.D
 Acq On : 22 Oct 2020 13:16
 Operator : SY/MD
 Sample : L4420-11DL 5X
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 C0AK4DL

Quant Time: Oct 22 23:25:31 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102120WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Oct 22 23:17:57 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	230735	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	245762	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	99841	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	60534	3.83	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	76.60%
7) Chloroethane-d5	1.92	69	57606	4.18	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	83.60%
11) 1,1-Dichloroethene-d2	2.58	63	112631	3.35	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	67.00%
20) 2-Butanone-d5	4.65	46	305615	54.41	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	108.82%
24) Chloroform-d	5.08	84	145777	4.20	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	84.00%
26) 1,2-Dichloroethane-d4	5.72	65	93490	4.81	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.20%
32) Benzene-d6	5.74	84	245479	3.81	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	76.20%
36) 1,2-Dichloropropane-d6	6.70	67	91357	4.18	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	83.60%
41) Toluene-d8	7.90	98	186114	3.26	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	65.20%#
43) trans-1,3-Dichloropropene-	8.19	79	33669	3.85	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	77.00%
46) 2-Hexanone-d5	8.64	63	214092	48.65	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	97.30%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	87514	4.70	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	94.00%
64) 1,2-Dichlorobenzene-d4	12.19	152	79830	4.55	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	91.00%

Target Compounds

					Ovalue
5) Vinyl chloride	1.61	62	1346	0.057 ug/L #	1
8) Chloroethane	1.93	64	985	0.064 ug/L #	59
10) 1,1,2-Trichloro-1,2,2-trif	2.58	101	816	0.045 ug/L #	21
12) 1,1-Dichloroethene	2.59	96	31106	1.841 ug/L #	68
13) Acetone	2.66	43	2821	0.715 ug/L	78
16) Methylene chloride	3.06	84	15332	0.738 ug/L	92
18) trans-1,2-Dichloroethene	3.37	96	1965	0.112 ug/L	97
19) 1,1-Dichloroethane	3.89	63	7911	0.224 ug/L	97
22) cis-1,2-Dichloroethene	4.68	96	55201	2.868 ug/L	95
27) 1,2-Dichloroethane	5.81	62	914	0.037 ug/L #	76
33) Benzene	5.75	78	2231	0.028 ug/L	100
34) Trichloroethene	6.55	95	61113	3.039 ug/L	97
35) Methylcyclohexane	6.70	83	21337	0.709 ug/L #	15
37) 1,2-Dichloropropane	6.70	63	11709	0.549 ug/L #	90
39) cis-1,3-Dichloropropene	7.57	75	2599	0.091 ug/L #	56
44) trans-1,3-Dichloropropene	8.19	75	1863	0.072 ug/L	92
47) Tetrachloroethene	8.56	164	64810	4.331 ug/L	98

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Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 22 23:17:57 2020
Response via : Initial Calibration

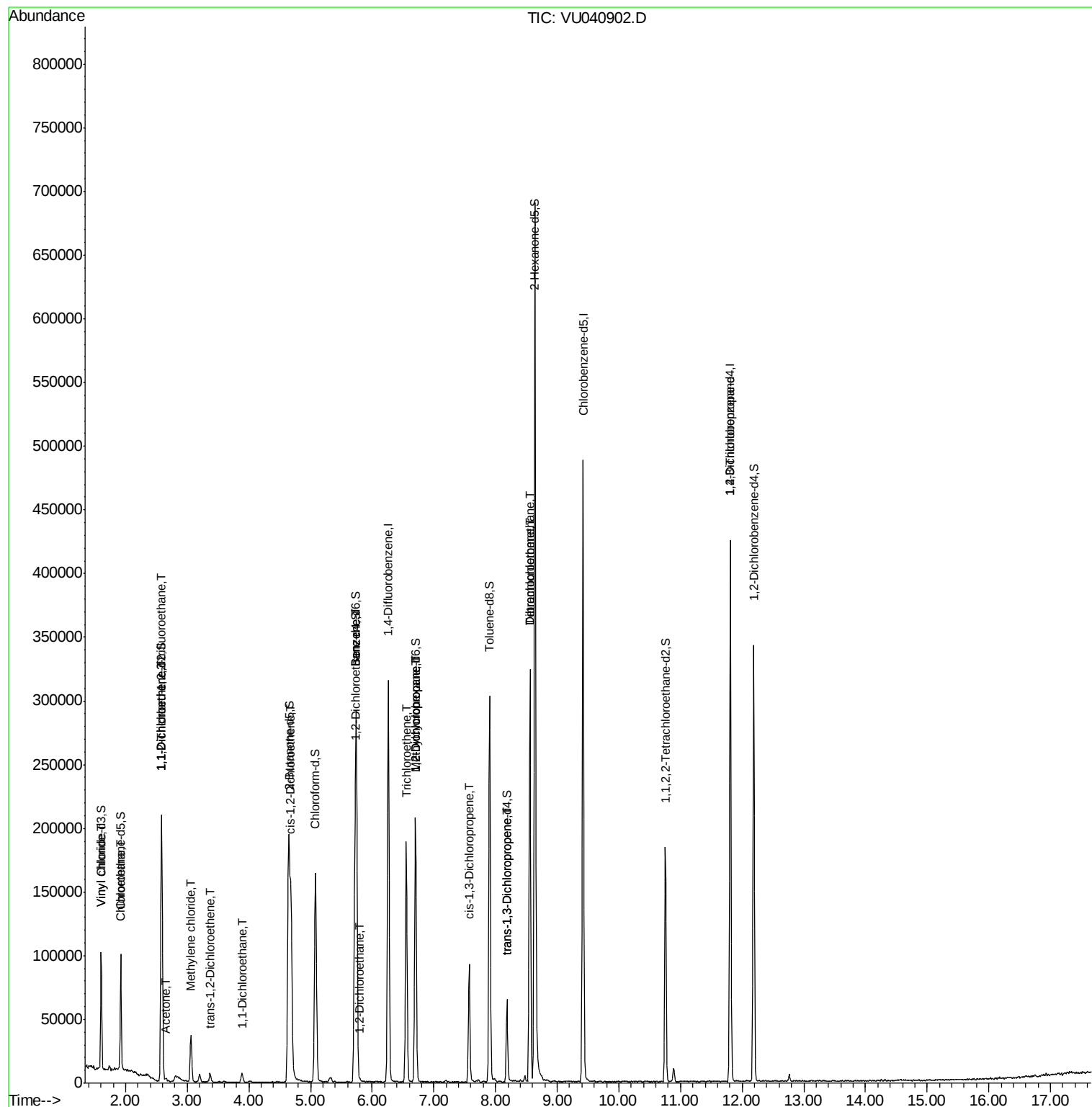
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Dibromochloromethane	8.56	129	65486	3.776	ug/L #	9
59) 1,2,3-Trichloropropane	11.81	75	14960	1.079	ug/L	91

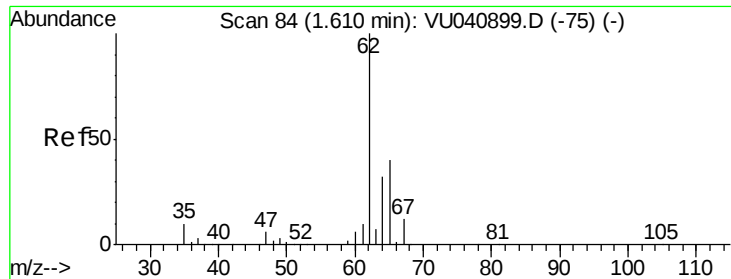
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#5

Vinyl chloride

Concen: 0.057 ug/L

RT: 1.61 min Scan# 84

Delta R.T. -0.00 min

Lab File: VU040902.D

Acq: 22 Oct 2020 13:16

Instrument :

MSVOA_U

ClientSampleId :

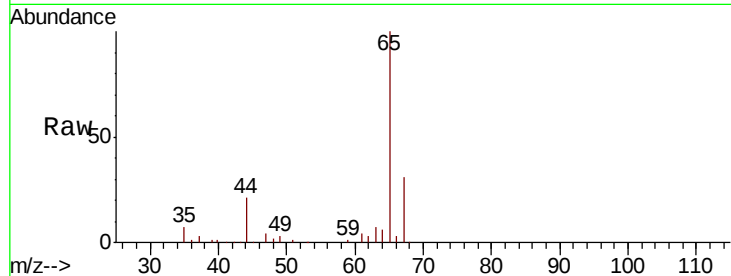
C0AK4DL

Tot Ion: 62 Resp: 1346

Ion Ratio Lower Upper

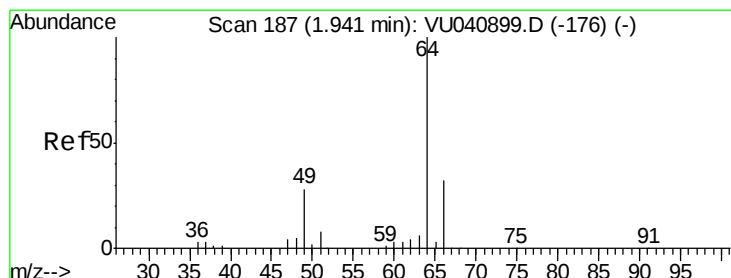
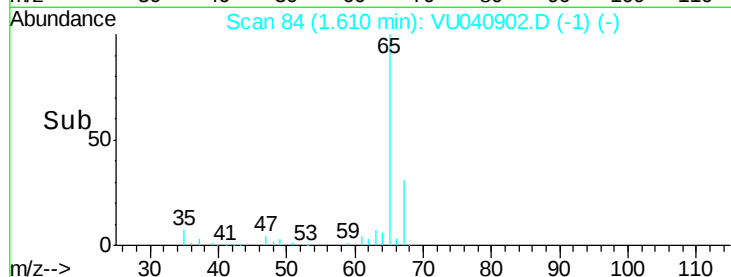
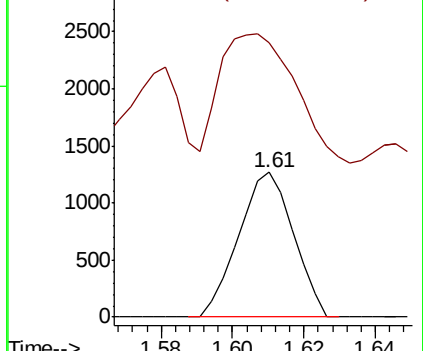
62 100

64 189.7 21.8 40.6#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



#8

Chloroethane

Concen: 0.064 ug/L

RT: 1.93 min Scan# 185

Delta R.T. -0.01 min

Lab File: VU040902.D

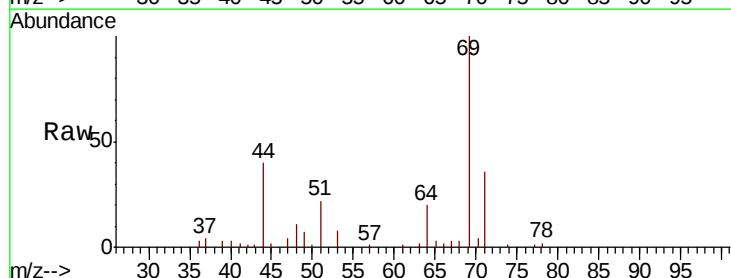
Acq: 22 Oct 2020 13:16

Tgt Ion: 64 Resp: 985

Ion Ratio Lower Upper

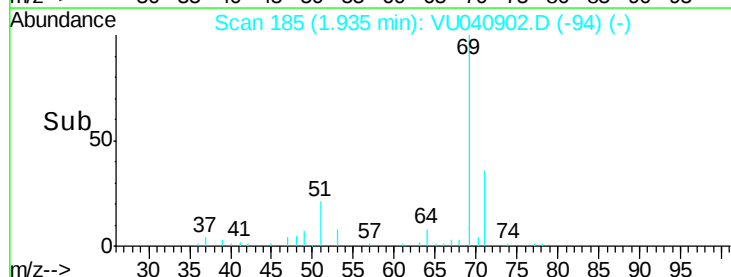
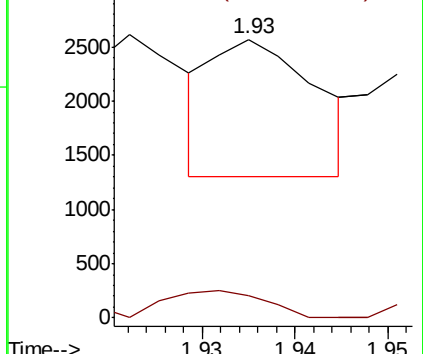
64 100

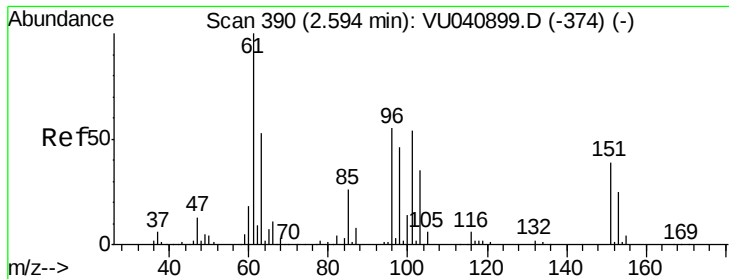
66 7.9 21.2 39.4#



Abundance Ion 64.10 (63.80 to 64.80): VU0

Ion 66.05 (65.75 to 66.75): VU0





#10

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

Concen: 0.045 ug/L

RT: 2.58 min Scan# 386

Delta R.T. -0.01 min

Lab File: VU040902.D

Acq: 22 Oct 2020 13:16

Instrument :

MSVOA_U

ClientSampleId :

C0AK4DL

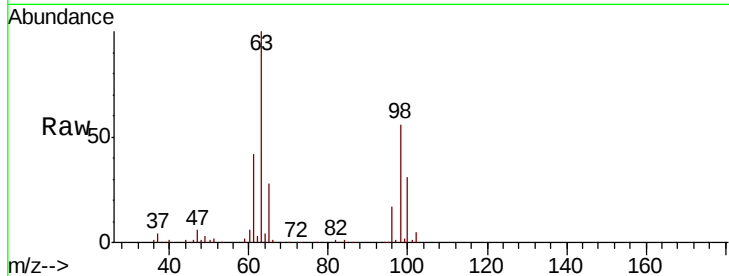
Tot Ion:101 Resp: 816

Ion Ratio Lower Upper

101 100

85 0.0 36.4 54.6#

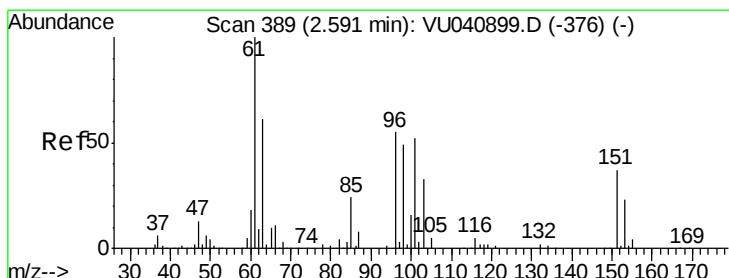
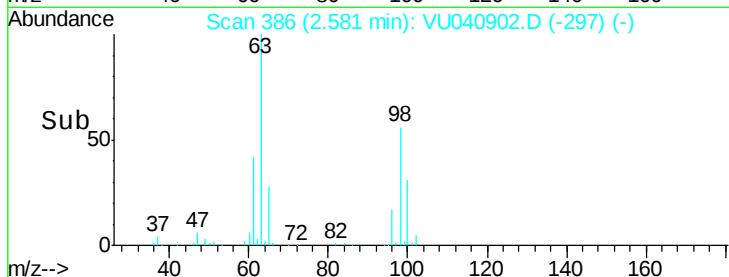
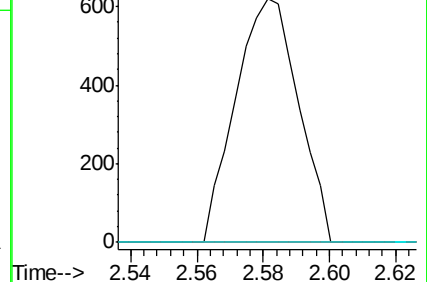
151 0.0 56.3 84.5#



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: 1.841 ug/L

RT: 2.59 min Scan# 389

Delta R.T. -0.00 min

Lab File: VU040902.D

Acq: 22 Oct 2020 13:16

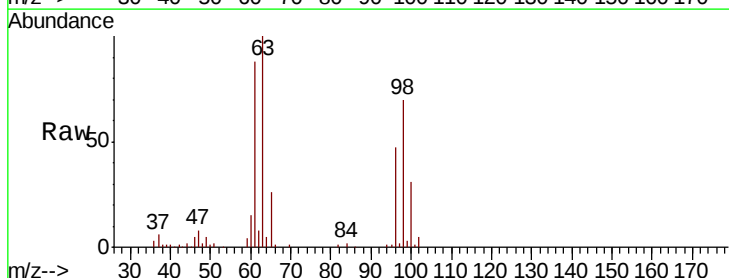
Tgt Ion: 96 Resp: 31106

Ion Ratio Lower Upper

96 100

61 187.9 130.9 243.1

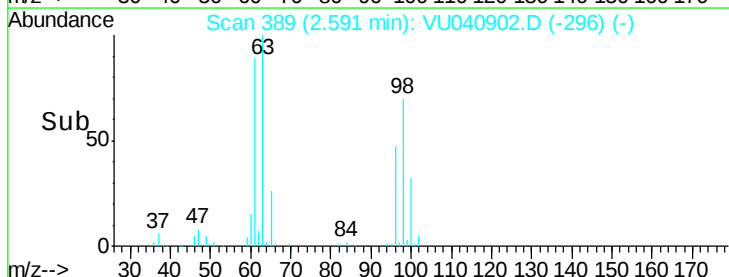
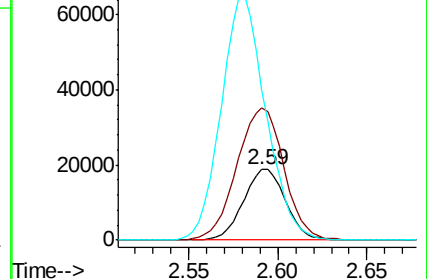
63 212.8 85.4 158.6#

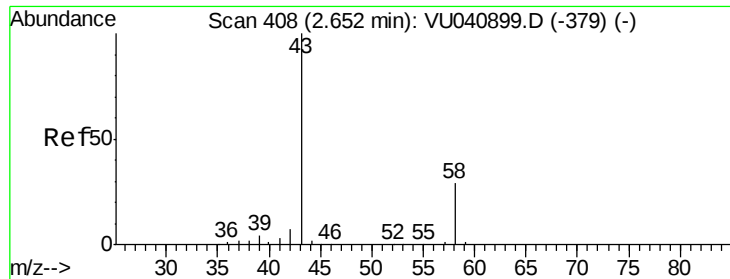


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 0.715 ug/L

RT: 2.66 min Scan# 409

Delta R.T. 0.00 min

Lab File: VU040902.D

Acq: 22 Oct 2020 13:16

Instrument :

MSVOA_U

ClientSampleId :

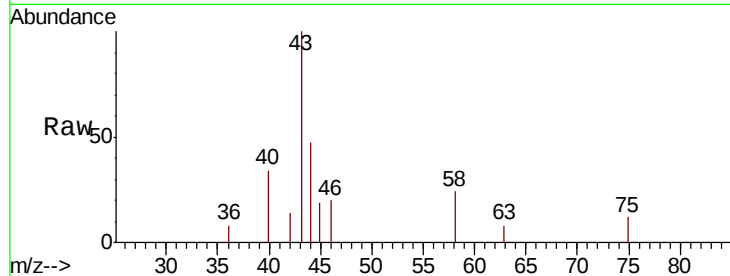
C0AK4DL

Tot Ion: 43 Resp: 2821

Ion Ratio Lower Upper

43 100

58 17.6 0.0 58.6



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

2.66

1500

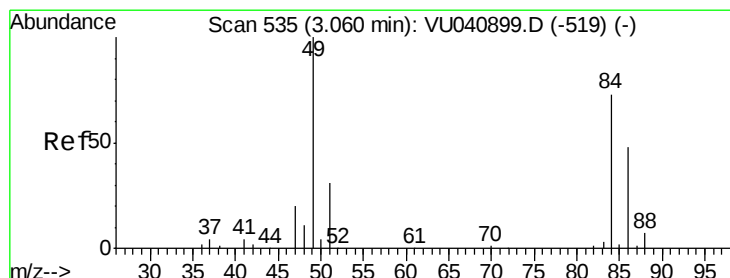
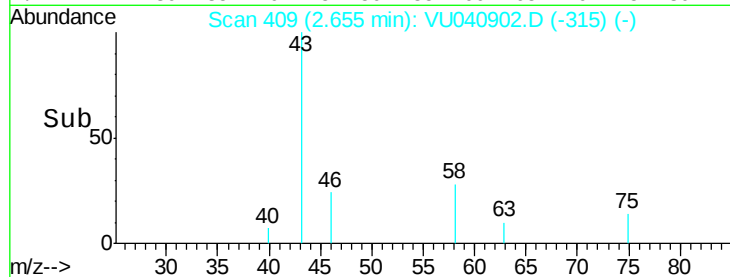
1000

500

0

Time-->

2.60 2.65 2.70



#16

Methylene chloride

Concen: 0.738 ug/L

RT: 3.06 min Scan# 535

Delta R.T. -0.00 min

Lab File: VU040902.D

Acq: 22 Oct 2020 13:16

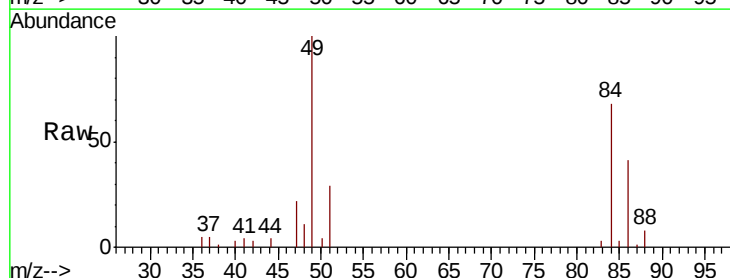
Tgt Ion: 84 Resp: 15332

Ion Ratio Lower Upper

84 100

86 60.6 44.9 83.5

49 147.0 94.7 175.9



Abundance Ion 84.05 (83.75 to 84.75): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.10 (48.80 to 49.80): VU0

15000

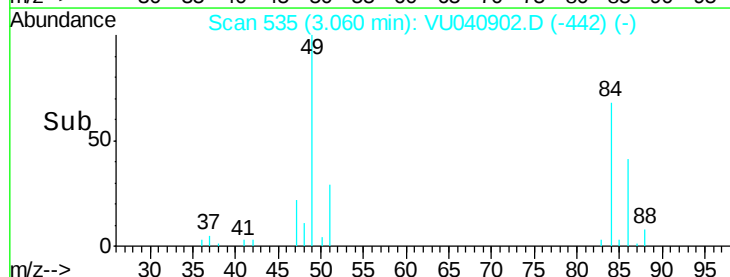
10000

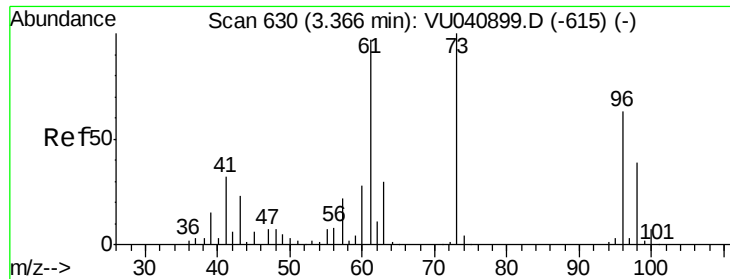
5000

0

Time-->

3.00 3.05 3.10

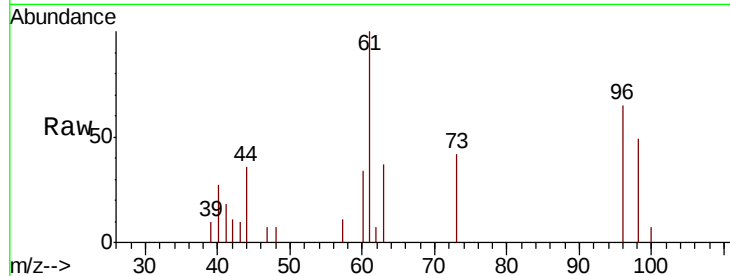




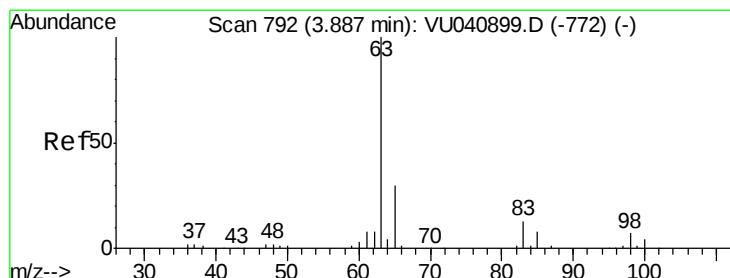
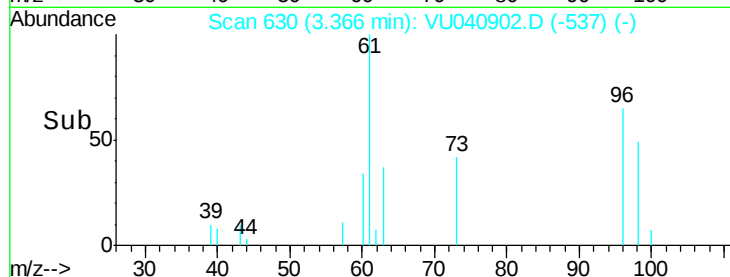
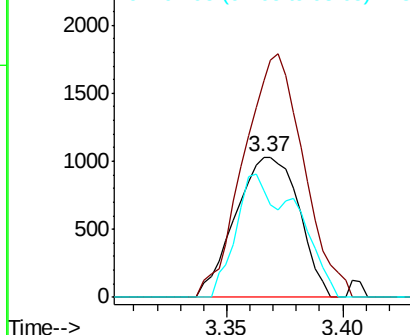
#18
trans-1,2-Dichloroethene
Concen: 0.112 ug/L
RT: 3.37 min Scan# 630
Delta R.T. -0.00 min
Lab File: VU040902.D
Acq: 22 Oct 2020 13:16

Instrument :
MSVOA_U
ClientSampleId :
C0AK4DL

Tot Ion: 96 Resp: 1965
Ion Ratio Lower Upper
96 100
61 154.3 107.9 200.3
98 75.8 47.5 88.1

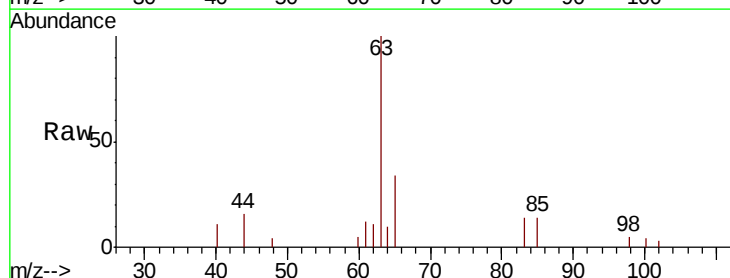


Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 97.95 (97.65 to 98.65): VU0

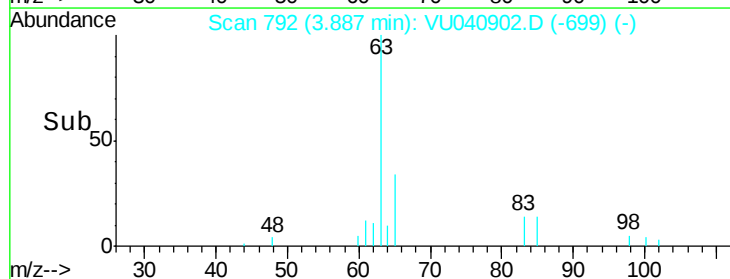
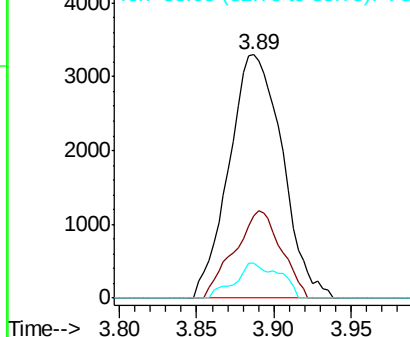


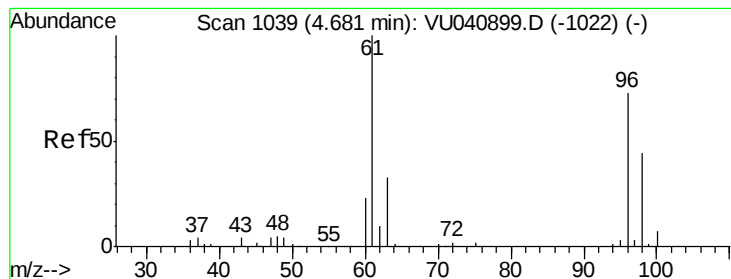
#19
1,1-Dichloroethane
Concen: 0.224 ug/L
RT: 3.89 min Scan# 792
Delta R.T. -0.00 min
Lab File: VU040902.D
Acq: 22 Oct 2020 13:16

Tgt Ion: 63 Resp: 7911
Ion Ratio Lower Upper
63 100
65 34.0 22.6 42.0
83 14.4 9.4 17.6



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: 2.868 ug/L

RT: 4.68 min Scan# 1040

Delta R.T. 0.00 min

Lab File: VU040902.D

Acq: 22 Oct 2020 13:16

Instrument :

MSVOA_U

ClientSampleId :

C0AK4DL

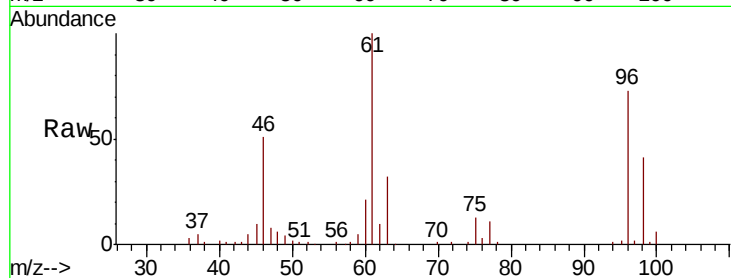
Tot Ion: 96 Resp: 55201

Ion Ratio Lower Upper

96 100

61 136.3 100.0 185.6

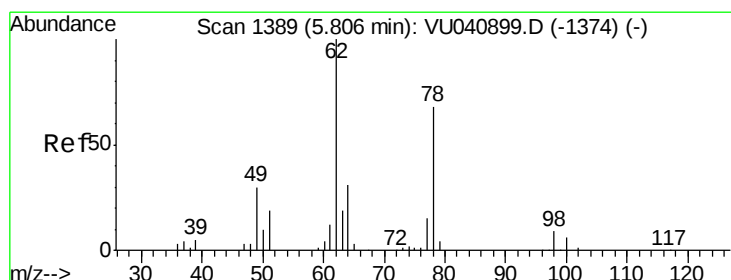
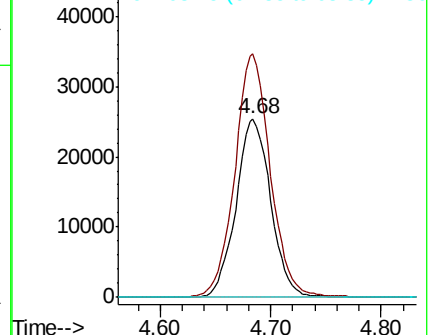
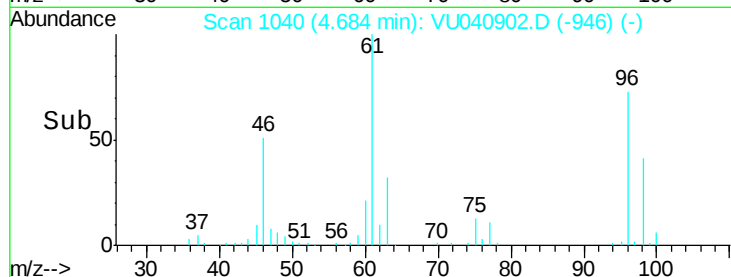
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU040902.D (-946) (-)

Ion 61.05 (60.75 to 61.75): VU040902.D (-946) (-)

Ion 68.15 (67.85 to 68.85): VU040902.D (-946) (-)



#27

1,2-Dichloroethane

Concen: 0.037 ug/L

RT: 5.81 min Scan# 1390

Delta R.T. 0.00 min

Lab File: VU040902.D

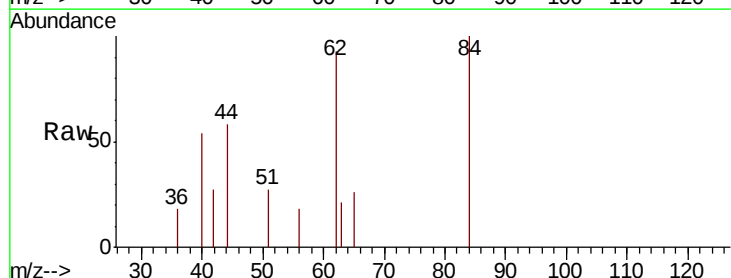
Acq: 22 Oct 2020 13:16

Tgt Ion: 62 Resp: 914

Ion Ratio Lower Upper

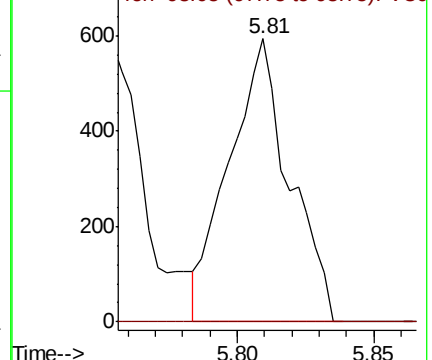
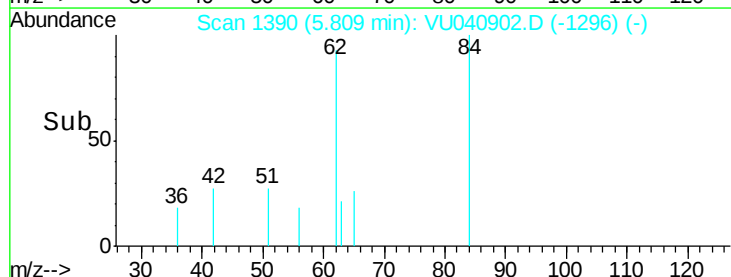
62 100

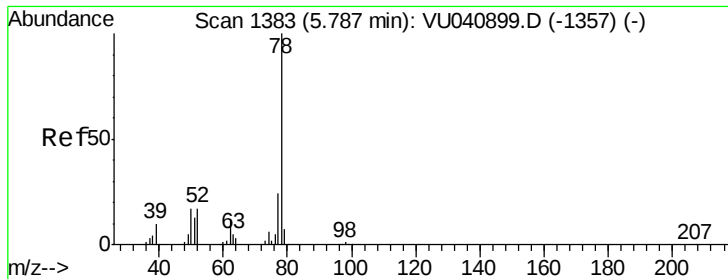
98 0.0 7.0 10.6#



Abundance Ion 62.00 (61.70 to 62.70): VU040902.D (-1296) (-)

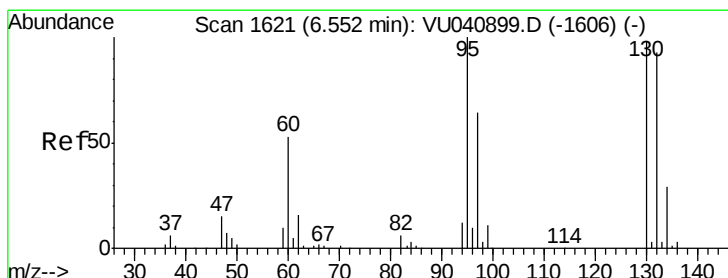
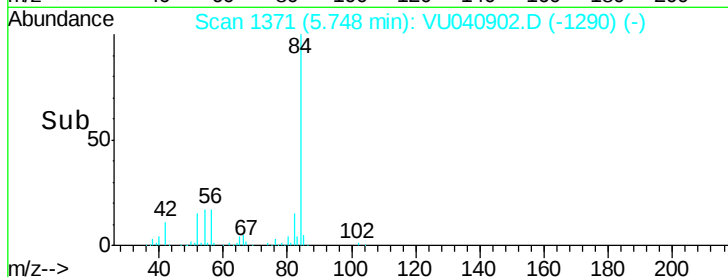
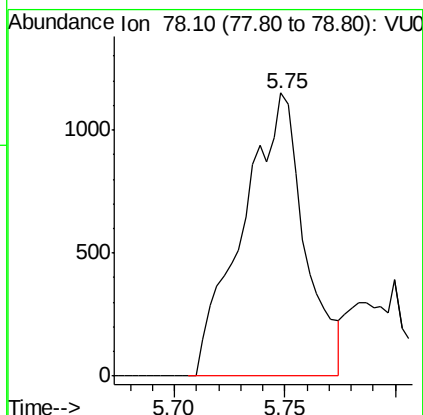
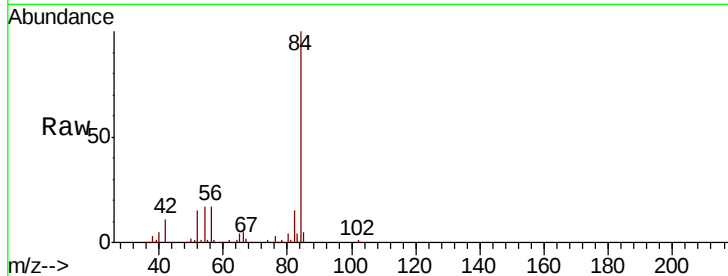
Ion 98.05 (97.75 to 98.75): VU040902.D (-1296) (-)





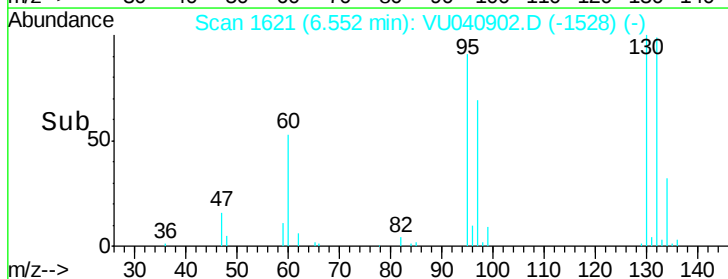
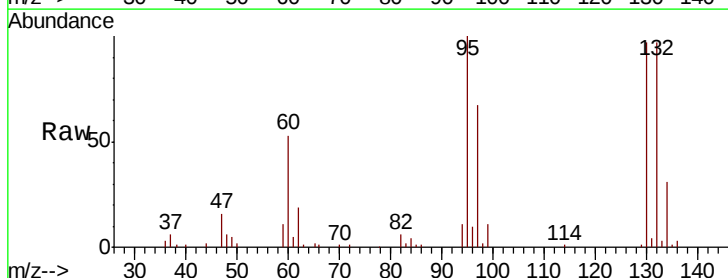
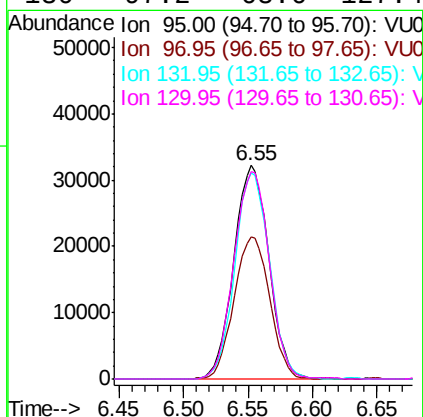
#33
Benzene
Concen: 0.028 ug/L
RT: 5.75 min Scan# 1371
Delta R.T. -0.04 min
Lab File: VU040902.D
Acq: 22 Oct 2020 13:16
Tgt Ion: 78 Resp: 2231

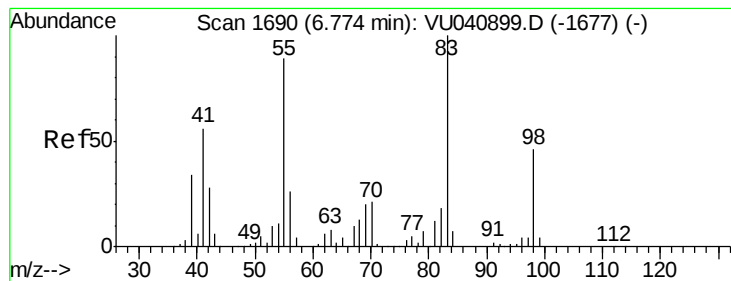
Instrument :
MSVOA_U
ClientSampleId :
C0AK4DL



#34
Trichloroethene
Concen: 3.039 ug/L
RT: 6.55 min Scan# 1621
Delta R.T. -0.00 min
Lab File: VU040902.D
Acq: 22 Oct 2020 13:16

Tgt Ion: 95 Resp: 61113
Ion Ratio Lower Upper
95 100
97 66.7 46.0 85.4
132 96.7 63.6 118.2
130 97.2 68.6 127.4





#35

Methvlcvclohexane

Concen: 0.709 ug/L

RT: 6.70 min Scan# 1668

Delta R.T. -0.07 min

Lab File: VU040902.D

Acq: 22 Oct 2020 13:16

Instrument :

MSVOA_U

ClientSampleId :

C0AK4DL

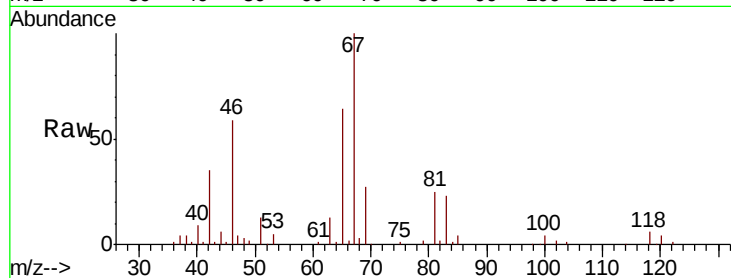
Tot Ion: 83 Resp: 21337

Ion Ratio Lower Upper

83 100

55 0.0 69.1 103.7#

98 1.0 37.8 56.6#

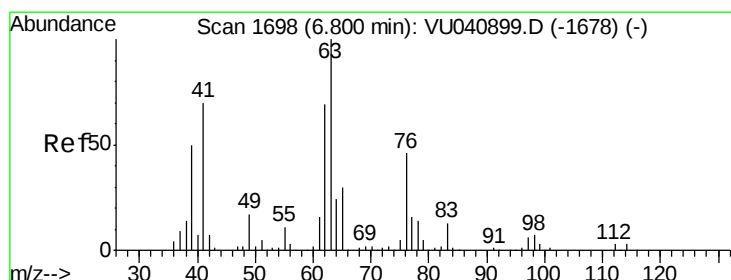
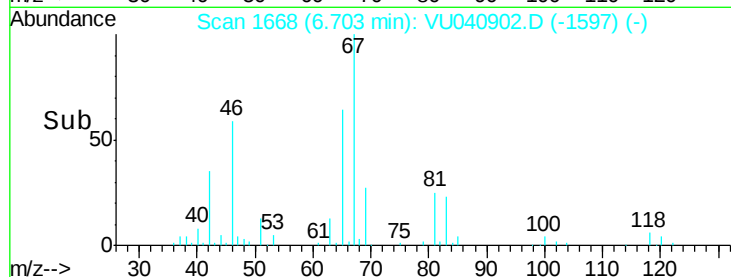


Abundance Ion 83.15 (82.85 to 83.85): VU040902.D (-1668) (-)

Ion 55.10 (54.80 to 55.80): VU040902.D (-1668) (-)

Ion 98.15 (97.85 to 98.85): VU040902.D (-1668) (-)

Time-->



#37

1,2-Dichloropropane

Concen: 0.549 ug/L

RT: 6.70 min Scan# 1668

Delta R.T. -0.10 min

Lab File: VU040902.D

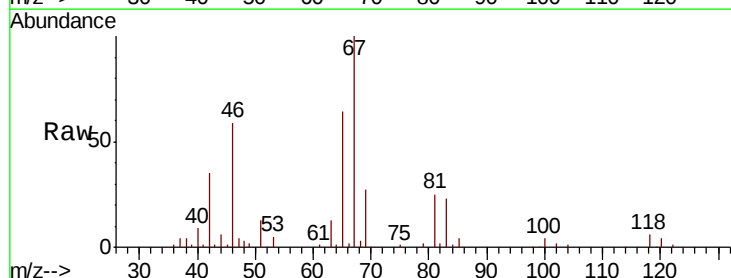
Acq: 22 Oct 2020 13:16

Tgt Ion: 63 Resp: 11709

Ion Ratio Lower Upper

63 100

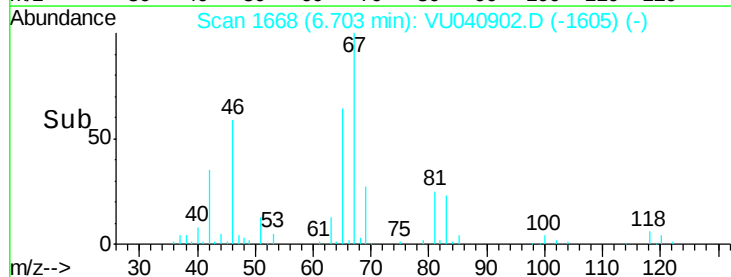
112 0.6 3.0 4.6#

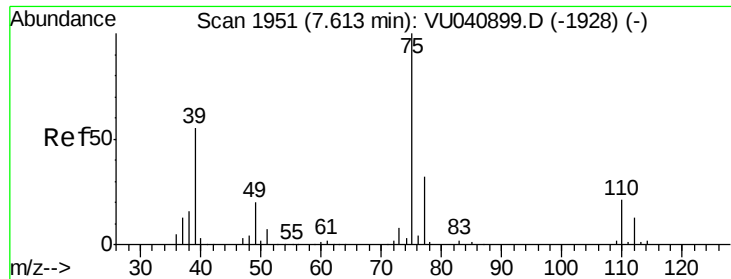


Abundance Ion 63.10 (62.80 to 63.80): VU040902.D (-1668) (-)

Ion 112.10 (111.80 to 112.80): VU040902.D (-1668) (-)

Time-->

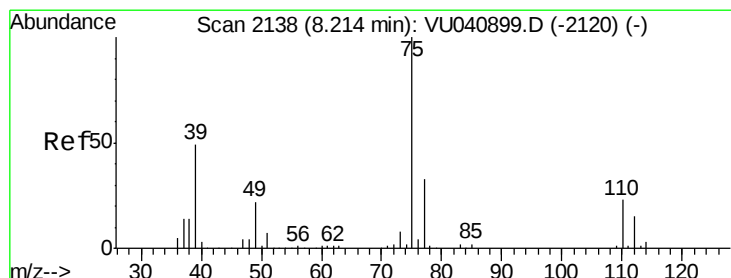
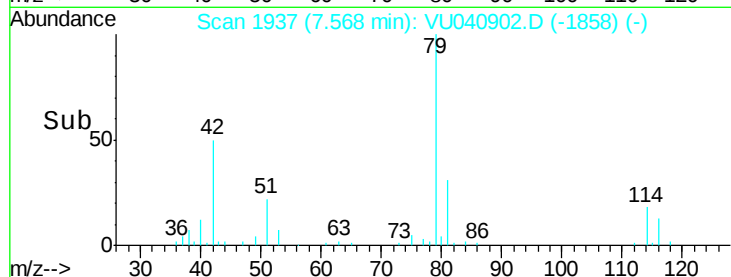
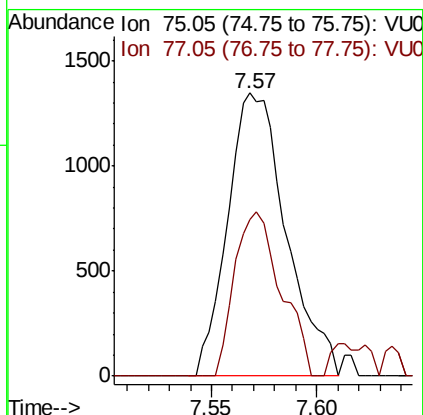
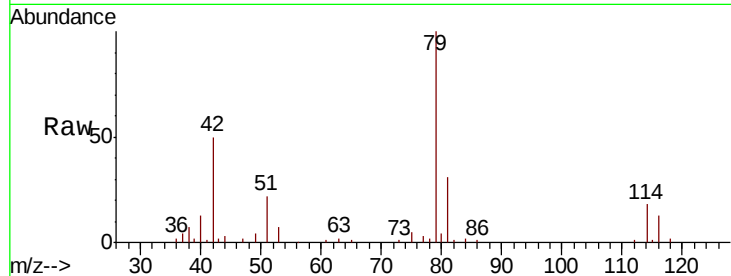




#39
 cis-1,3-Dichloropropene
 Concen: 0.091 ug/L
 RT: 7.57 min Scan# 1937
 Delta R.T. -0.05 min
 Lab File: VU040902.D
 Acq: 22 Oct 2020 13:16

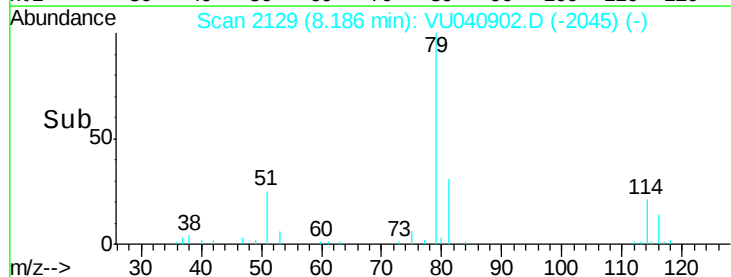
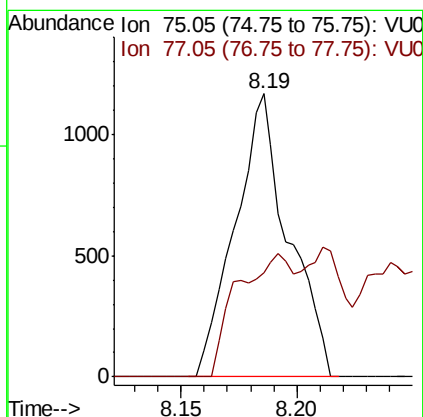
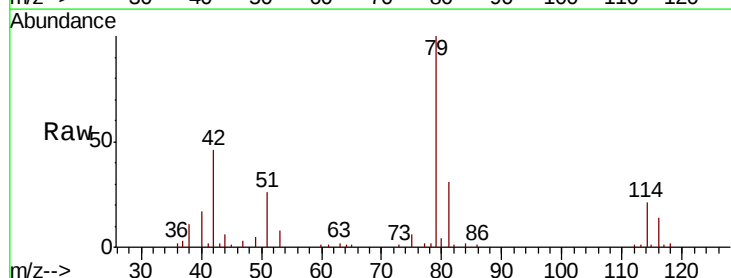
Instrument :
 MSVOA_U
 ClientSampleId :
 C0AK4DL

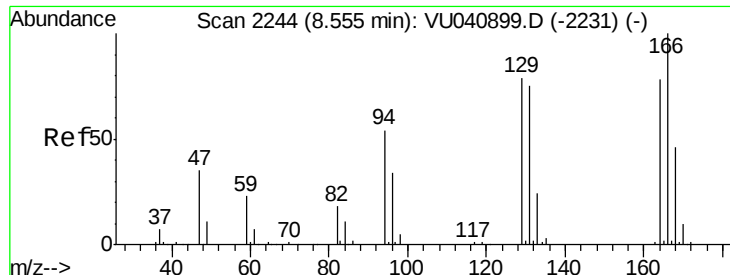
Tot Ion: 75 Resp: 2599
 Ion Ratio Lower Upper
 75 100
 77 55.3 21.6 40.2#



#44
 trans-1,3-Dichloropropene
 Concen: 0.072 ug/L
 RT: 8.19 min Scan# 2129
 Delta R.T. -0.03 min
 Lab File: VU040902.D
 Acq: 22 Oct 2020 13:16

Tgt Ion: 75 Resp: 1863
 Ion Ratio Lower Upper
 75 100
 77 37.0 22.6 42.0





#47

Tetrachloroethene

Concen: 4.331 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. 0.00 min

Lab File: VU040902.D

Acq: 22 Oct 2020 13:16

Instrument :

MSVOA_U

ClientSampleId :

C0AK4DL

Tot Ion:164 Resp: 64810

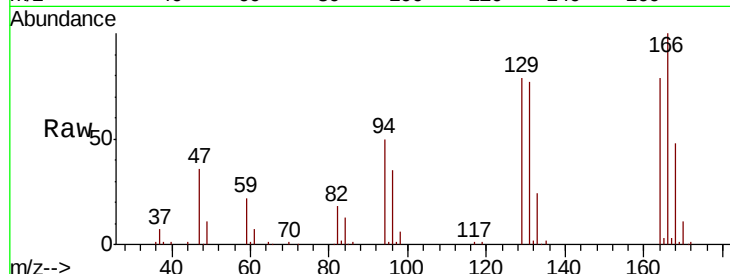
Ion Ratio Lower Upper

164 100

129 100.3 69.7 129.4

131 97.7 65.4 121.4

166 126.6 90.0 167.2

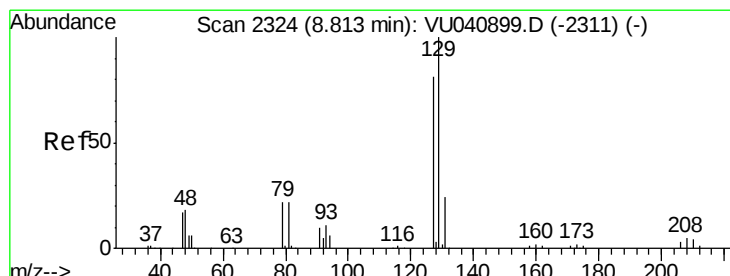
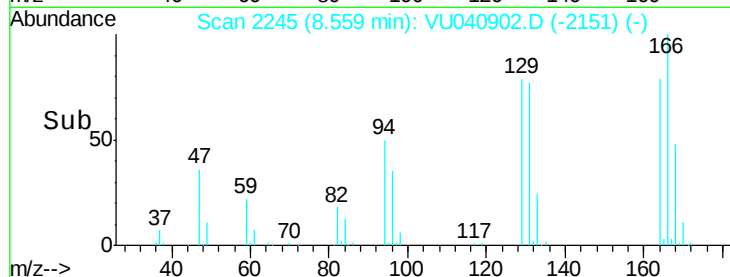
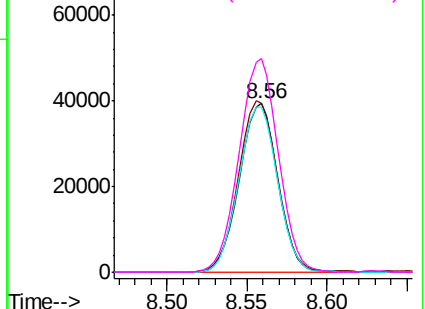


Abundance Ion 163.90 (163.60 to 164.60): V

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



#49

Dibromochloromethane

Concen: 3.776 ug/L

RT: 8.56 min Scan# 2244

Delta R.T. -0.26 min

Lab File: VU040902.D

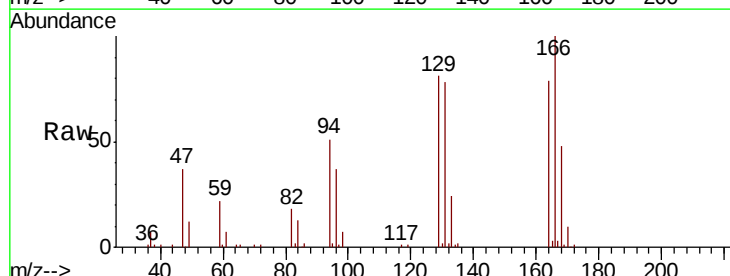
Acq: 22 Oct 2020 13:16

Tgt Ion:129 Resp: 65486

Ion Ratio Lower Upper

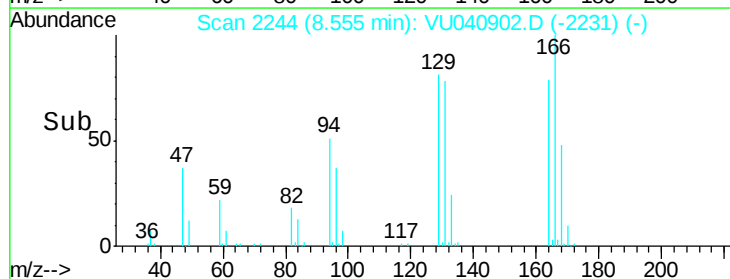
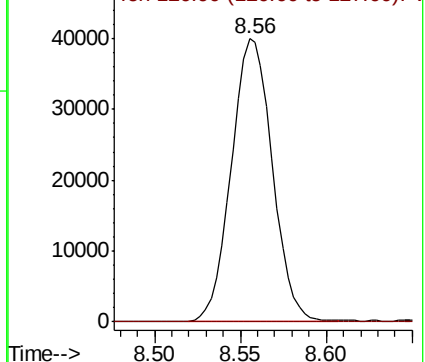
129 100

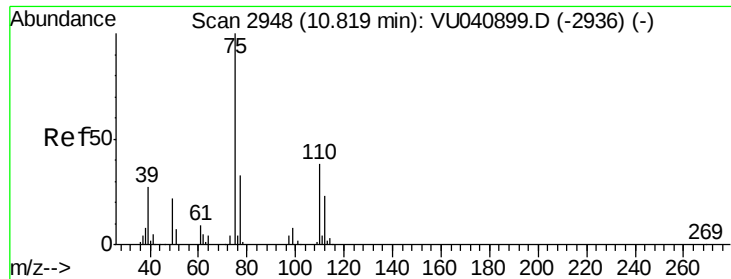
127 0.0 55.9 103.9#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V





#59

1,2,3-Trichloropropane

Concen: 1.079 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.99 min

Lab File: VU040902.D

Acq: 22 Oct 2020 13:16

Instrument :

MSVOA_U

ClientSampleId :

C0AK4DL

Tot Ion: 75 Resp: 14960

Ion Ratio Lower Upper

75 100

77 39.4 27.5 41.3

