

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU093020\
 Data File : VU040409.D
 Acq On : 30 Sep 2020 19:31
 Operator : SY/MD
 Sample : L4186-15
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BG0F5

Quant Time: Oct 01 03:09:01 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR092920WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Oct 01 03:05:40 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	126345	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	125695	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	54133	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	26961	4.31	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	86.20%
7) Chloroethane-d5	1.92	69	26549	4.85	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	97.00%
11) 1,1-Dichloroethene-d2	2.58	63	46584	3.10	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	62.00%
20) 2-Butanone-d5	4.66	46	163349	52.57	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	105.14%
24) Chloroform-d	5.08	84	71498	4.80	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.00%
26) 1,2-Dichloroethane-d4	5.72	65	44501	4.91	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.20%
32) Benzene-d6	5.75	84	124910	4.94	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.80%
36) 1,2-Dichloropropane-d6	6.70	67	45585	4.93	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	98.60%
41) Toluene-d8	7.91	98	95160	4.33	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	86.60%
43) trans-1,3-Dichloropropene-	8.19	79	16084	4.26	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	85.20%
46) 2-Hexanone-d5	8.64	63	110579	49.83	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	99.66%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	43795	4.87	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	97.40%
64) 1,2-Dichlorobenzene-d4	12.19	152	45427	5.54	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	110.80%

Target Compounds

					Ovalue
5) Vinyl chloride	1.61	62	38808	3.178	ug/L 100
8) Chloroethane	1.95	64	599	0.083	ug/L # 55
12) 1,1-Dichloroethene	2.59	96	2900	0.301	ug/L # 1
13) Acetone	2.66	43	1826	0.705	ug/L 66
14) Carbon disulfide	2.81	76	1995	0.066	ug/L # 87
17) Methyl tert-butyl Ether	3.38	73	4378	0.165	ug/L 98
18) trans-1,2-Dichloroethene	3.37	96	6867	0.690	ug/L 96
19) 1,1-Dichloroethane	3.89	63	3686	0.181	ug/L # 94
22) cis-1,2-Dichloroethene	4.69	96	379173	34.449	ug/L 100
25) Chloroform	5.11	83	2361	0.113	ug/L 97
27) 1,2-Dichloroethane	5.75	62	715	0.050	ug/L # 74
33) Benzene	5.79	78	1315	0.031	ug/L 100
34) Trichloroethene	6.56	95	1503	0.134	ug/L 94
35) Methylcyclohexane	6.70	83	10539	0.642	ug/L # 14
37) 1,2-Dichloropropane	6.71	63	5297	0.451	ug/L # 88
44) trans-1,3-Dichloropropene	8.19	75	884	0.061	ug/L # 63
48) 2-Hexanone	8.64	43	15272	2.255	ug/L # 71

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Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 01 03:05:40 2020
Response via : Initial Calibration

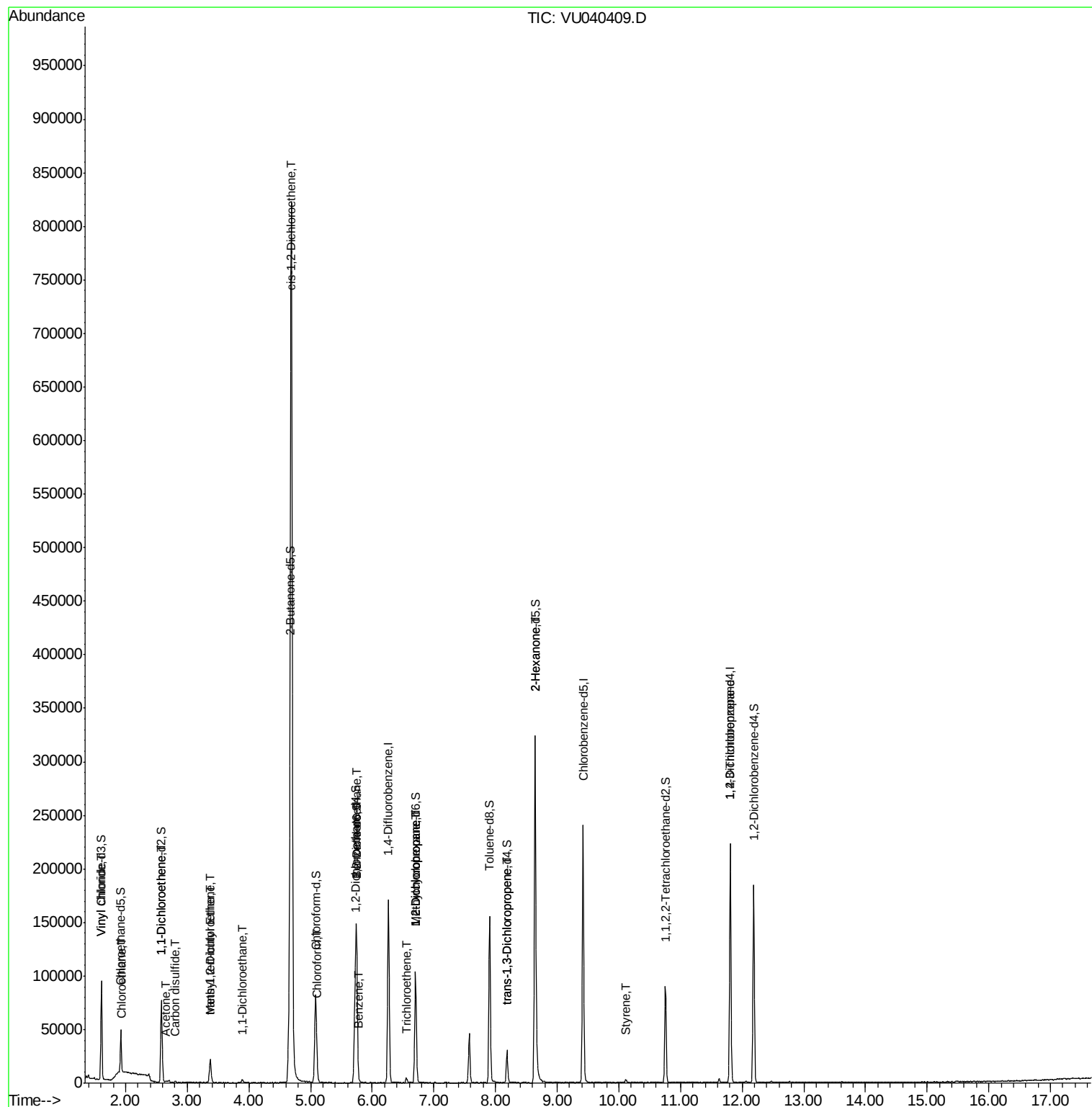
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
55) Styrene	10.11	104	1620	0.057	ug/L	84
59) 1,2,3-Trichloropropane	11.81	75	7922	0.931	ug/L	99

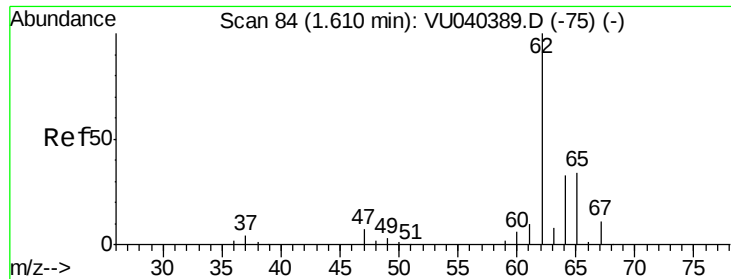
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Oct 01 03:05:40 2020
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 3.178 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU040409.D

Acq: 30 Sep 2020 19:31

Instrument :

MSVOA_U

ClientSampleId :

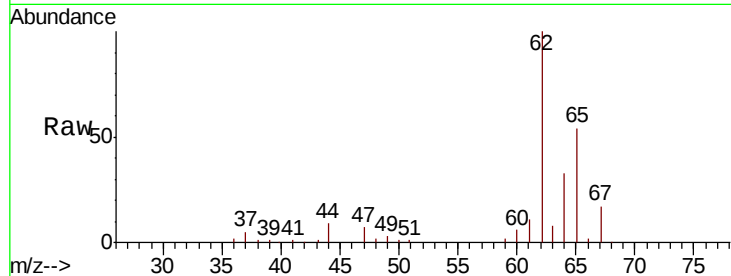
BG0F5

Tot Ion: 62 Resp: 38808

Ion Ratio Lower Upper

62 100

64 33.1 23.0 42.8



Abundance Ion 62.00 (61.70 to 62.70): VU040389.D (-75) (-)

Ion 64.10 (63.80 to 64.80): VU040389.D (-75) (-)

1.61

40000

30000

20000

10000

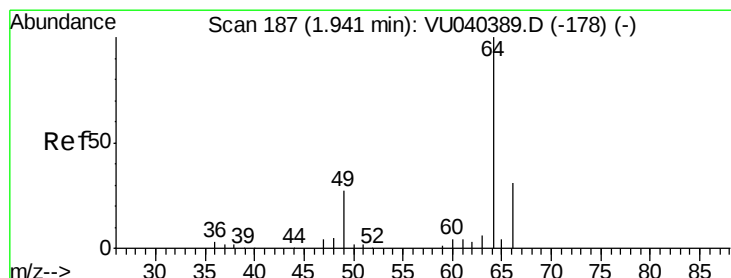
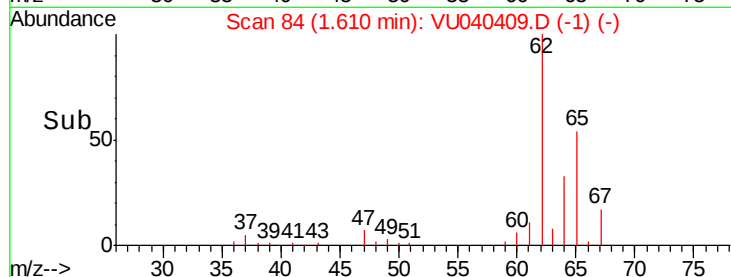
0

Time-->

1.55

1.60

1.65



#8

Chloroethane

Concen: 0.083 ug/L

RT: 1.95 min Scan# 189

Delta R.T. 0.01 min

Lab File: VU040409.D

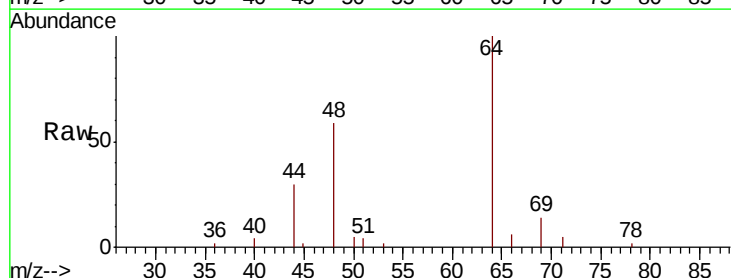
Acq: 30 Sep 2020 19:31

Tgt Ion: 64 Resp: 599

Ion Ratio Lower Upper

64 100

66 6.0 21.3 39.6#



Abundance Ion 64.10 (63.80 to 64.80): VU040389.D (-178) (-)

Ion 66.05 (65.75 to 66.75): VU040389.D (-178) (-)

6000

5000

4000

3000

2000

1000

0

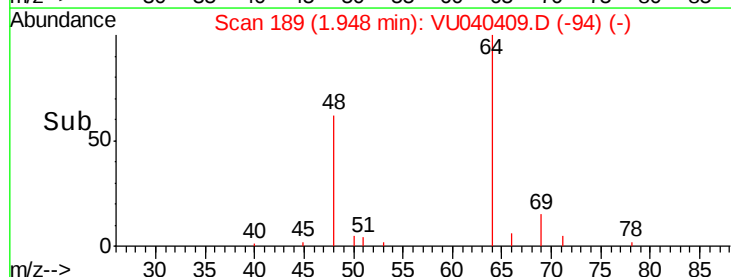
Time-->

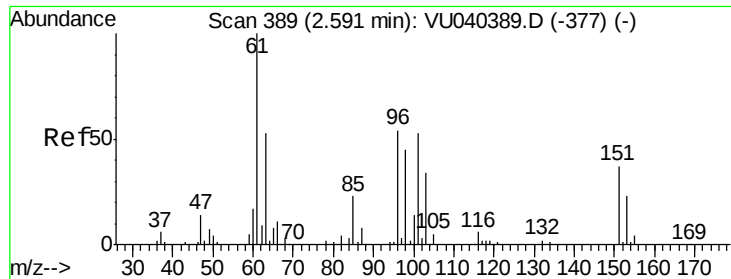
1.93

1.94

1.95

1.96





#12

1,1-Dichloroethene

Concen: 0.301 ug/L

RT: 2.59 min Scan# 389

Delta R.T. 0.00 min

Lab File: VU040409.D

Acq: 30 Sep 2020 19:31

Instrument :

MSVOA_U

ClientSampleId :

BG0F5

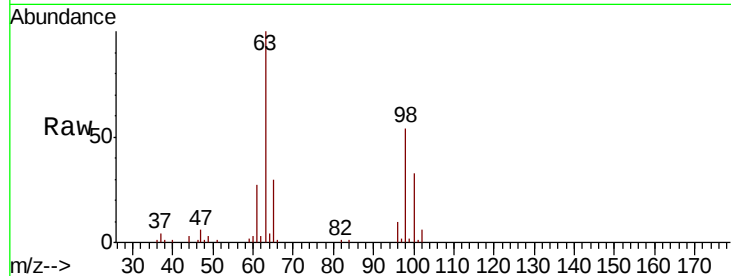
Tot Ion: 96 Resp: 2900

Ion Ratio Lower Upper

96 100

61 275.3 128.6 238.8#

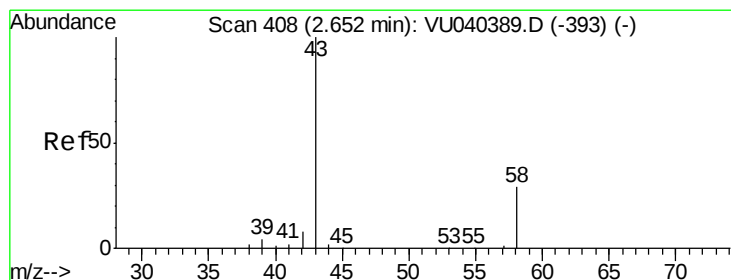
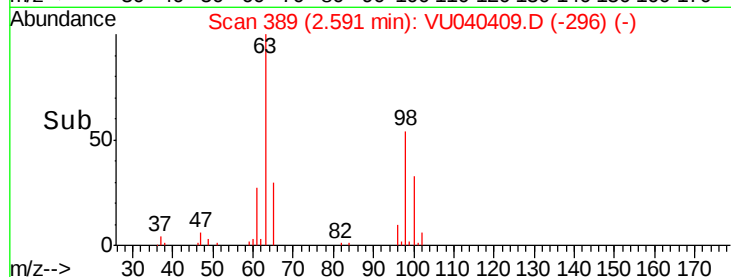
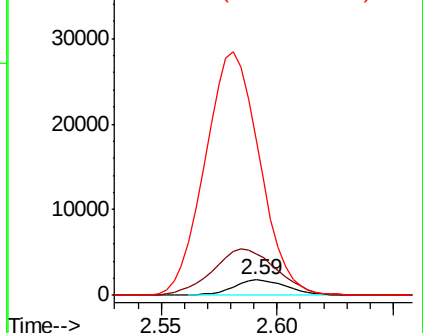
63 1018.5 67.8 126.0#



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: 0.705 ug/L

RT: 2.66 min Scan# 410

Delta R.T. 0.01 min

Lab File: VU040409.D

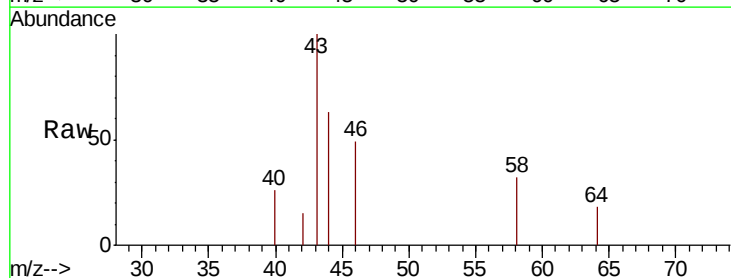
Acq: 30 Sep 2020 19:31

Tgt Ion: 43 Resp: 1826

Ion Ratio Lower Upper

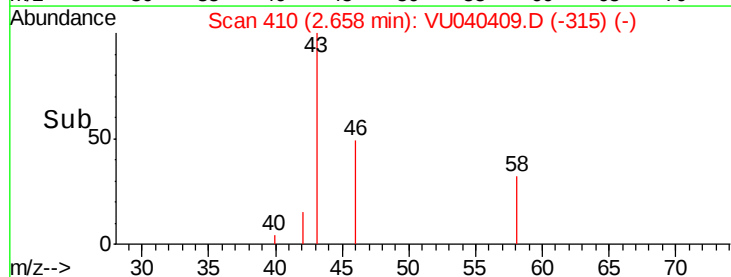
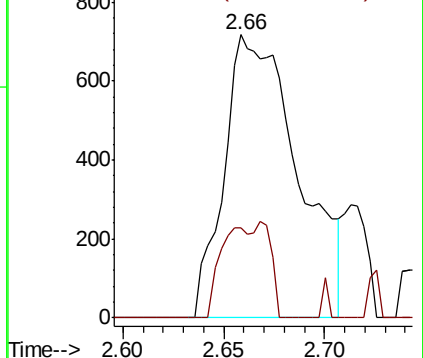
43 100

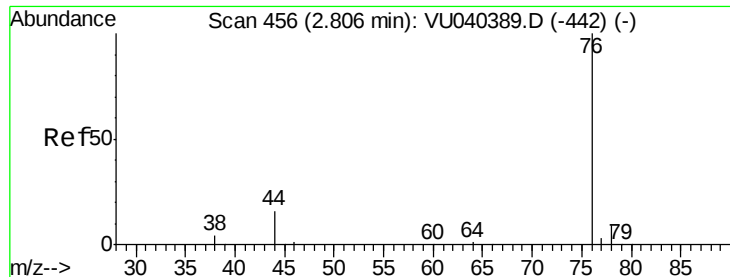
58 12.4 0.0 61.8



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0





#14

Carbon disulfide

Concen: 0.066 ug/L

RT: 2.81 min Scan# 457

Delta R.T. 0.00 min

Lab File: VU040409.D

Acq: 30 Sep 2020 19:31

Instrument :

MSVOA_U

ClientSampled :

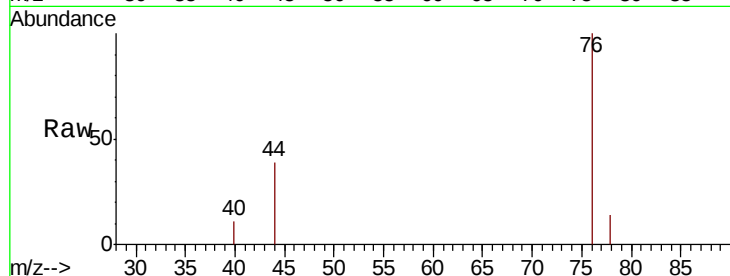
BG0F5

Tot Ion: 76 Resp: 1995

Ion Ratio Lower Upper

76 100

78 13.6 7.2 10.8#



Abundance Ion 76.05 (75.75 to 76.75): VU040389.D (-442) (-)

Ion 78.00 (77.70 to 78.70): VU040389.D (-442) (-)

2.81

1500

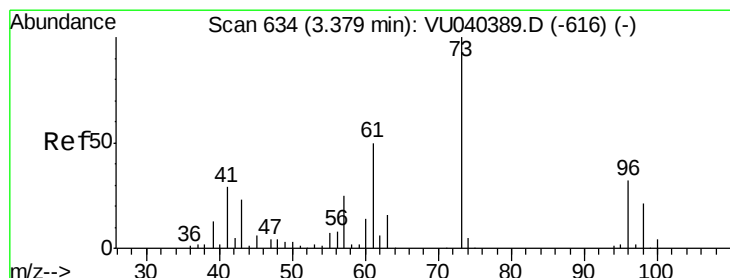
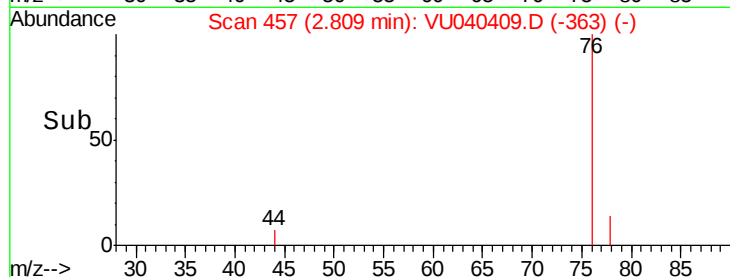
1000

500

0

2.80 2.85

Time-->



#17

Methyl tert-butyl Ether

Concen: 0.165 ug/L

RT: 3.38 min Scan# 634

Delta R.T. 0.00 min

Lab File: VU040409.D

Acq: 30 Sep 2020 19:31

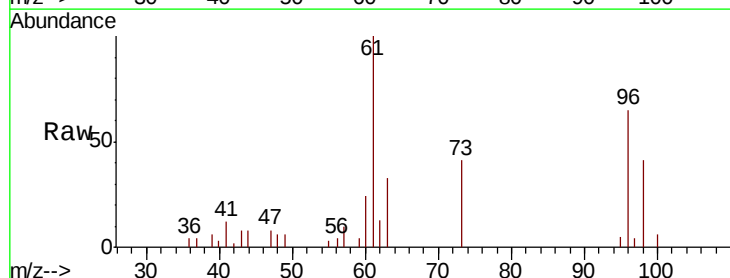
Tgt Ion: 73 Resp: 4378

Ion Ratio Lower Upper

73 100

43 25.3 19.0 28.4

57 23.6 18.9 28.3



Abundance Ion 73.10 (72.80 to 73.80): VU040389.D (-616) (-)

Ion 43.05 (42.75 to 43.75): VU040389.D (-616) (-)

Ion 57.10 (56.80 to 57.80): VU040389.D (-616) (-)

3.38

2500

2000

1500

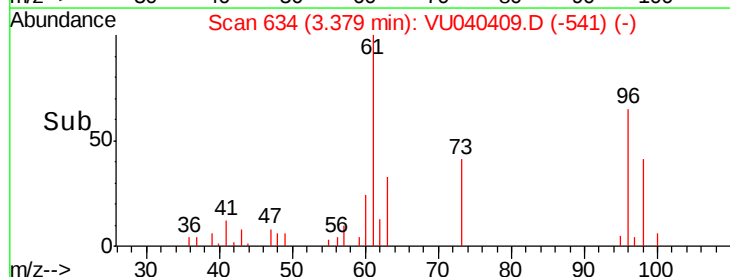
1000

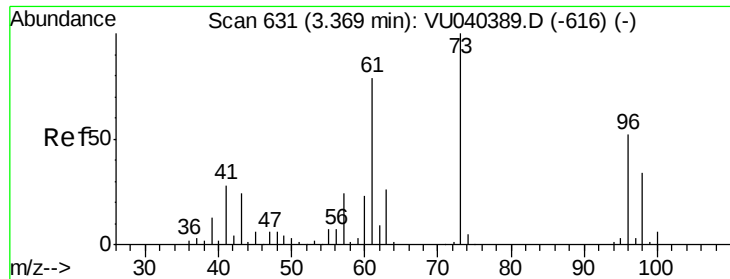
500

0

3.35 3.40 3.45

Time-->

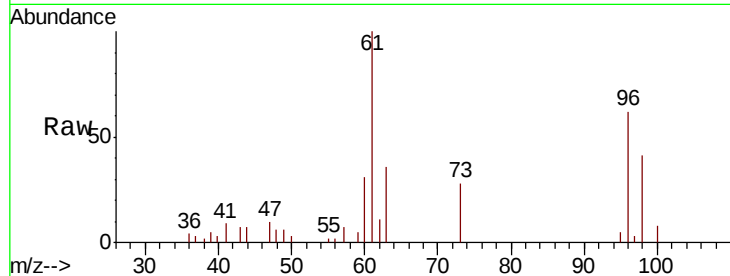




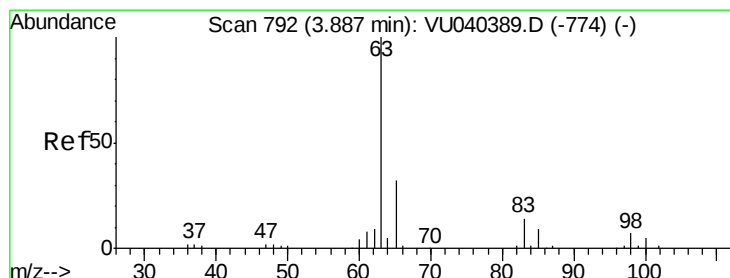
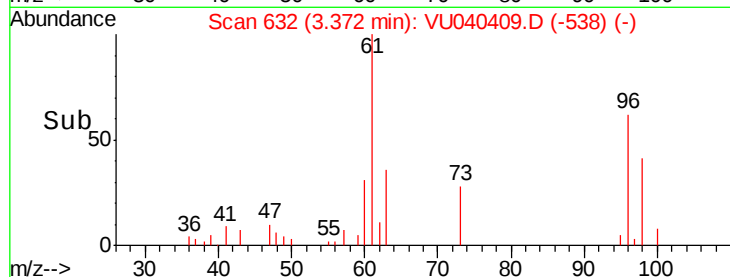
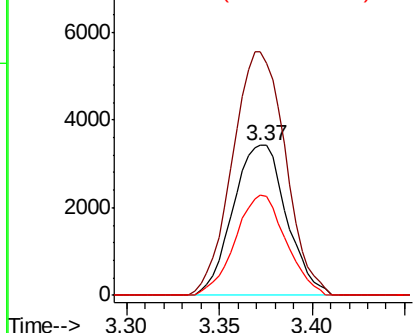
#18
 trans-1,2-Dichloroethene
 Concen: 0.690 ug/L
 RT: 3.37 min Scan# 632
 Delta R.T. 0.00 min
 Lab File: VU040409.D
 Acq: 30 Sep 2020 19:31

Instrument :
 MSVOA_U
 ClientSampleId :
 BG0F5

Tot Ion: 96 Resp: 6867
 Ion Ratio Lower Upper
 96 100
 61 162.3 109.3 203.1
 98 67.1 45.8 85.0

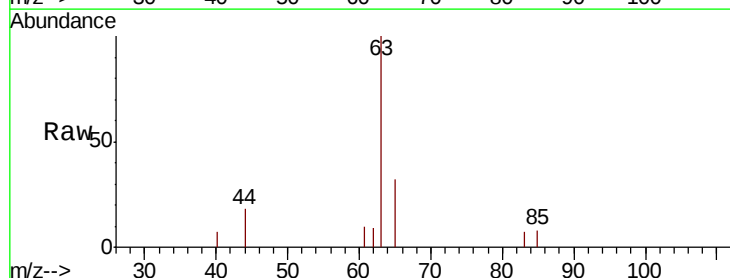


Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 97.95 (97.65 to 98.65): VU0

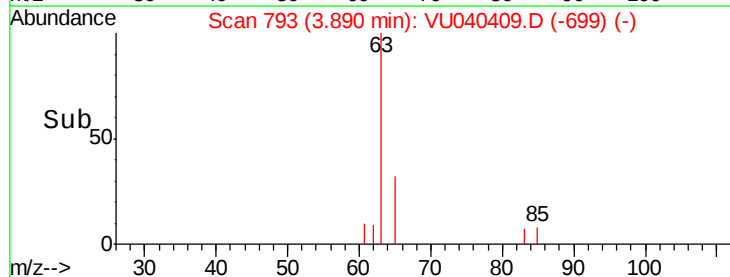
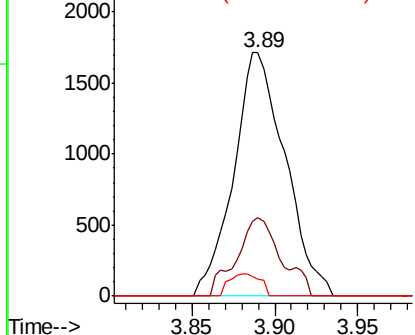


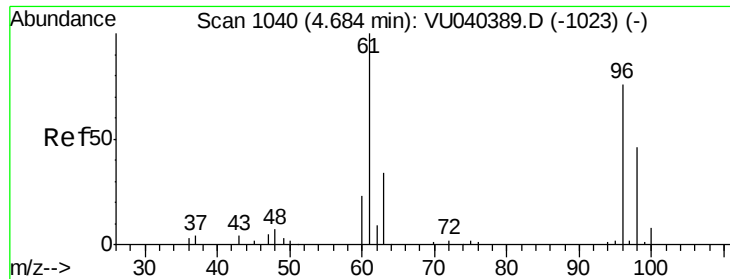
#19
 1,1-Dichloroethane
 Concen: 0.181 ug/L
 RT: 3.89 min Scan# 793
 Delta R.T. 0.00 min
 Lab File: VU040409.D
 Acq: 30 Sep 2020 19:31

Tgt Ion: 63 Resp: 3686
 Ion Ratio Lower Upper
 63 100
 65 32.2 21.7 40.3
 83 6.9 9.1 16.9#



Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0





#22

cis-1,2-Dichloroethene

Concen: 34.449 ug/L

RT: 4.69 min Scan# 1041

Delta R.T. 0.00 min

Lab File: VU040409.D

Acq: 30 Sep 2020 19:31

Instrument :

MSVOA_U

ClientSampleId :

BG0F5

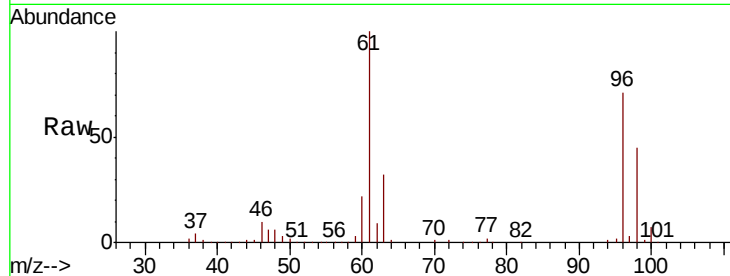
Tot Ion: 96 Resp: 379173

Ion Ratio Lower Upper

96 100

61 141.3 99.3 184.5

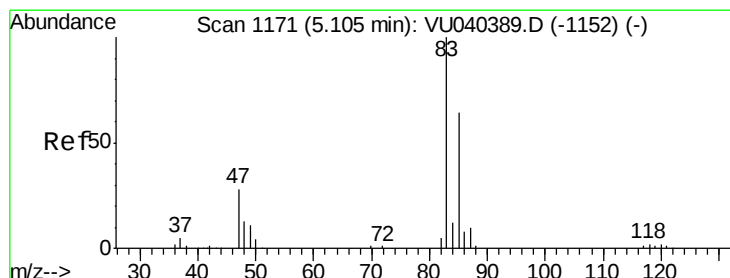
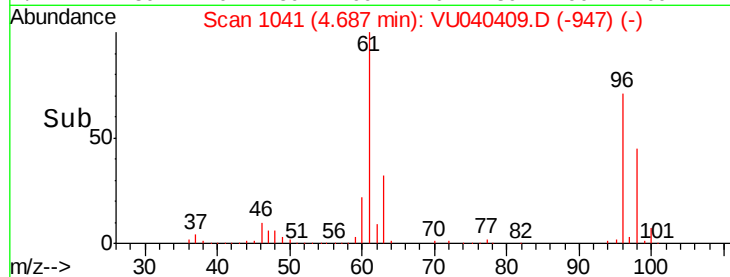
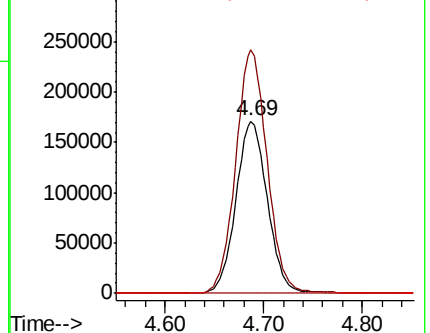
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU040389.D (-1023) (-)

Ion 61.05 (60.75 to 61.75): VU040389.D (-1023) (-)

Ion 68.15 (67.85 to 68.85): VU040389.D (-1023) (-)



#25

Chloroform

Concen: 0.113 ug/L

RT: 5.11 min Scan# 1173

Delta R.T. 0.01 min

Lab File: VU040409.D

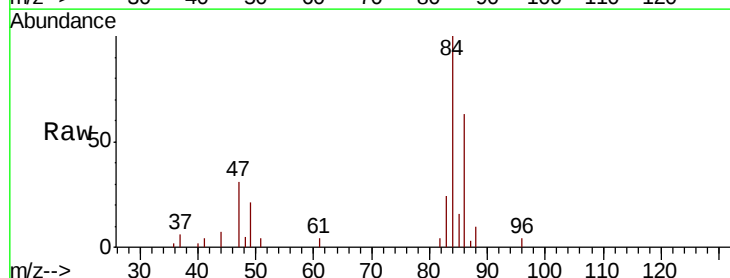
Acq: 30 Sep 2020 19:31

Tgt Ion: 83 Resp: 2361

Ion Ratio Lower Upper

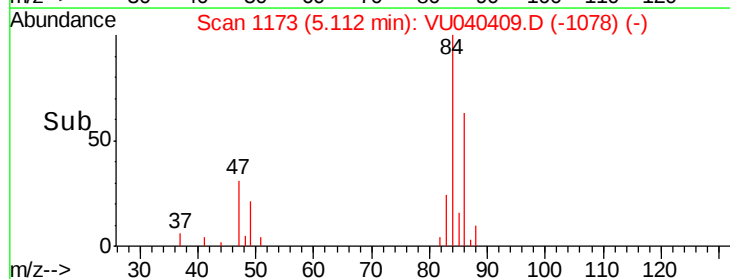
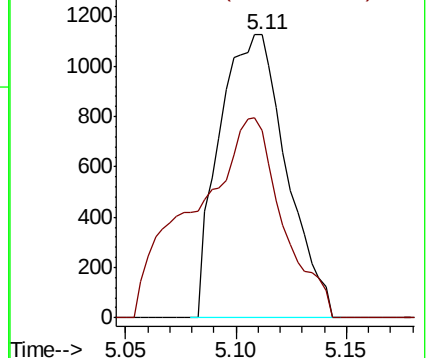
83 100

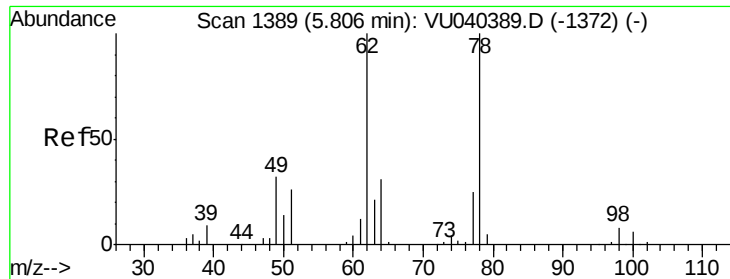
85 66.1 44.6 82.8



Abundance Ion 83.05 (82.75 to 83.75): VU040389.D (-1152) (-)

Ion 85.00 (84.70 to 85.70): VU040389.D (-1152) (-)





#27

1,2-Dichloroethane

Concen: 0.050 ug/L

RT: 5.75 min Scan# 1372

Delta R.T. -0.05 min

Lab File: VU040409.D

Acq: 30 Sep 2020 19:31

Instrument :

MSVOA_U

ClientSampleId :

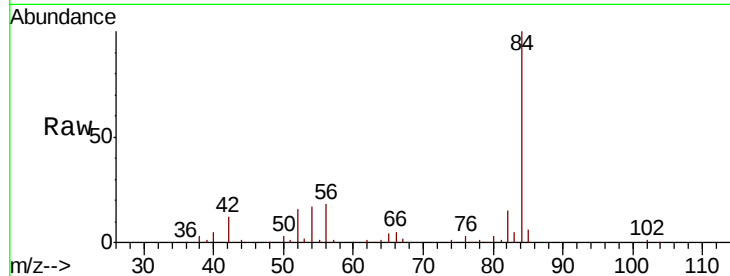
BG0F5

Tot Ion: 62 Resp: 715

Ion Ratio Lower Upper

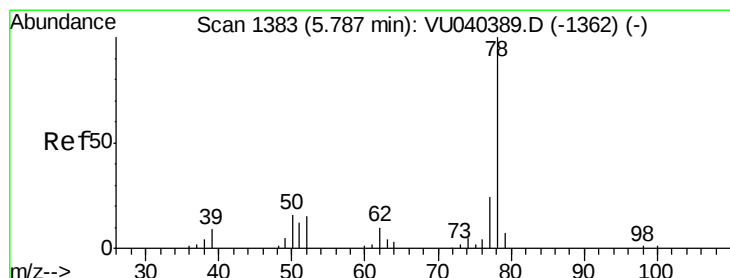
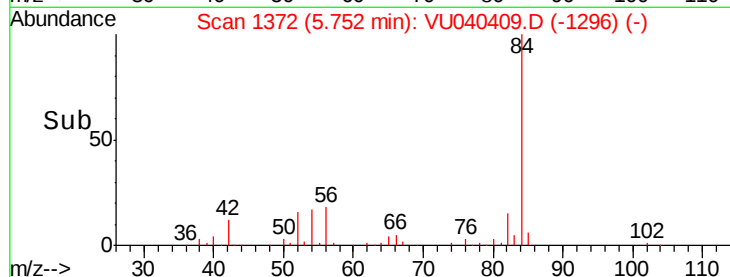
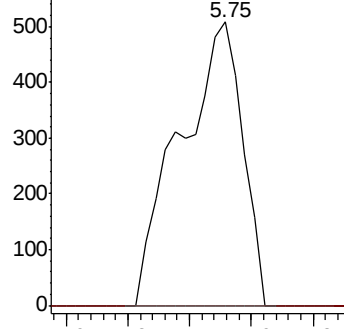
62 100

98 0.0 7.5 11.3#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 98.05 (97.75 to 98.75): VU0



#33

Benzene

Concen: 0.031 ug/L

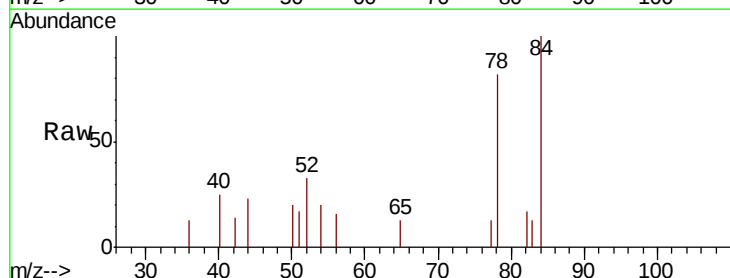
RT: 5.79 min Scan# 1383

Delta R.T. 0.00 min

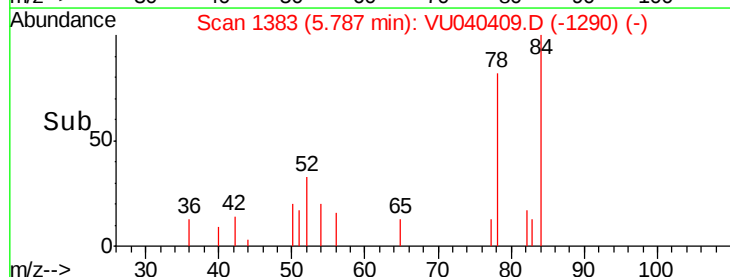
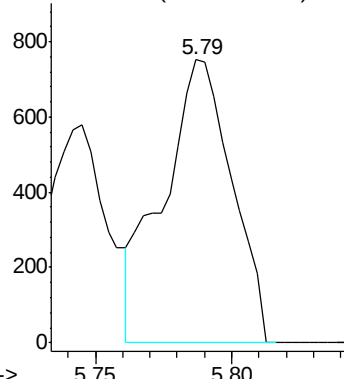
Lab File: VU040409.D

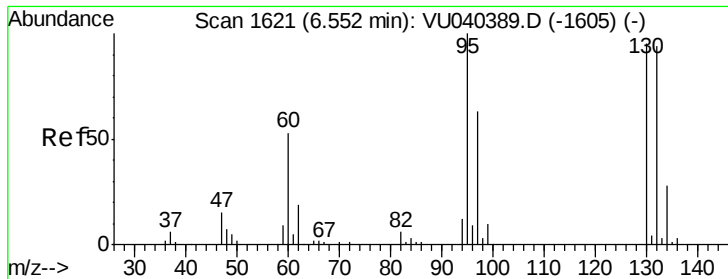
Acq: 30 Sep 2020 19:31

Tgt Ion: 78 Resp: 1315



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 0.134 ug/L

RT: 6.56 min Scan# 1622

Delta R.T. 0.00 min

Lab File: VU040409.D

Acq: 30 Sep 2020 19:31

Instrument :

MSVOA_U

ClientSampled :

BG0F5

Tot Ion: 95 Resp: 1503

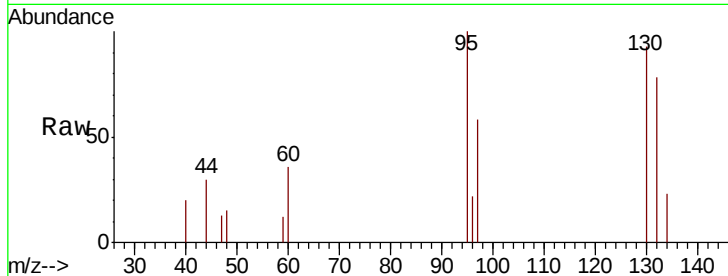
Ion Ratio Lower Upper

95 100

97 57.7 46.3 85.9

132 78.1 60.5 112.3

130 92.9 64.3 119.3

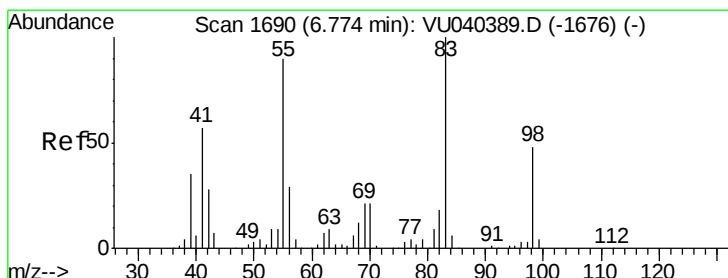
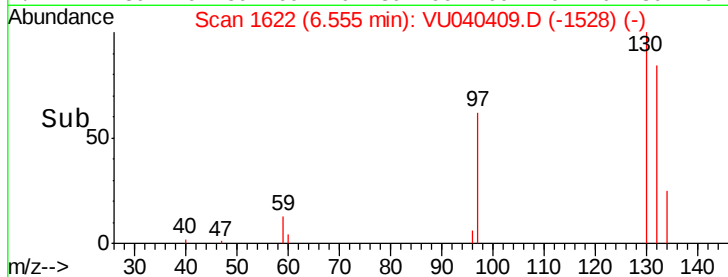
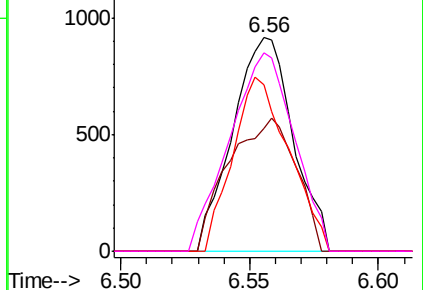


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 0.642 ug/L

RT: 6.70 min Scan# 1668

Delta R.T. -0.07 min

Lab File: VU040409.D

Acq: 30 Sep 2020 19:31

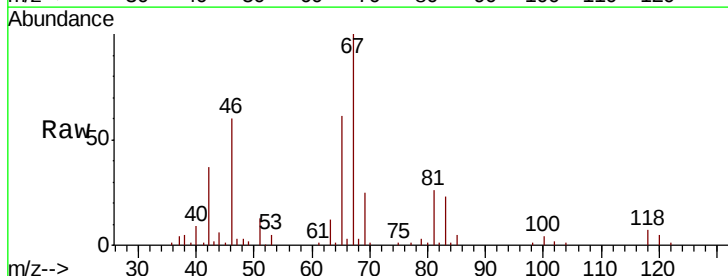
Tgt Ion: 83 Resp: 10539

Ion Ratio Lower Upper

83 100

55 0.0 71.4 107.2#

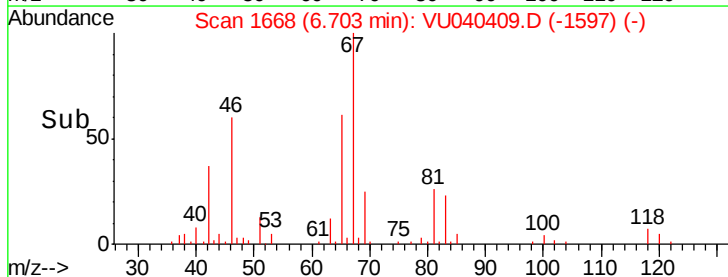
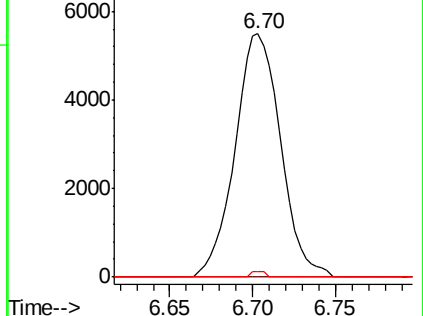
98 0.7 38.5 57.7#

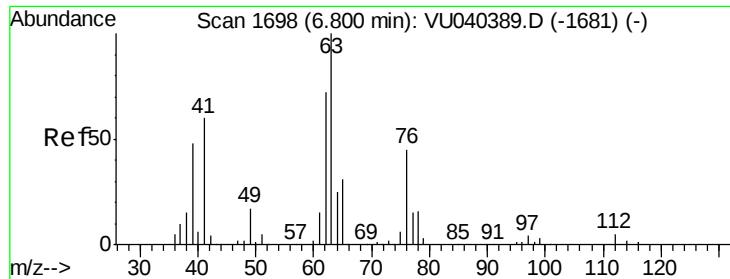


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

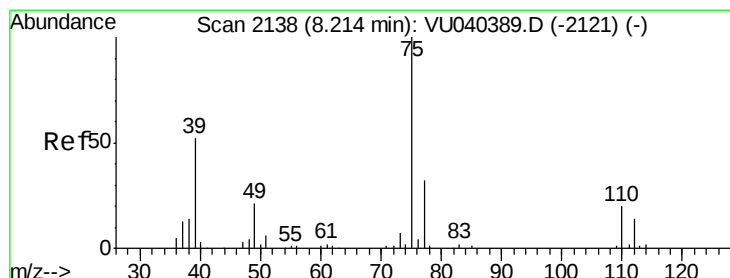
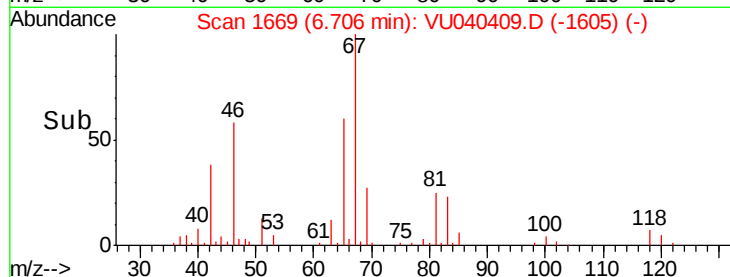
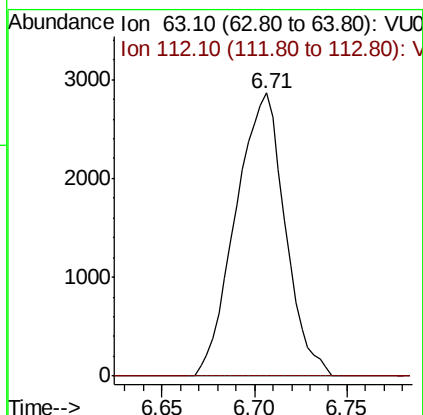
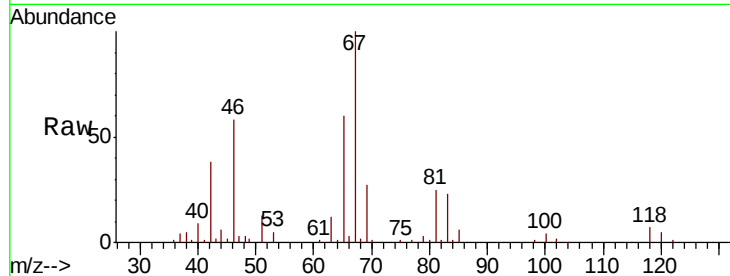




#37
 1,2-Dichloropropane
 Concen: 0.451 ug/L
 RT: 6.71 min Scan# 1669
 Delta R.T. -0.09 min
 Lab File: VU040409.D
 Acq: 30 Sep 2020 19:31

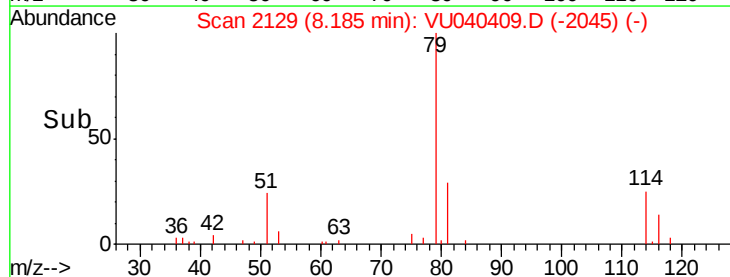
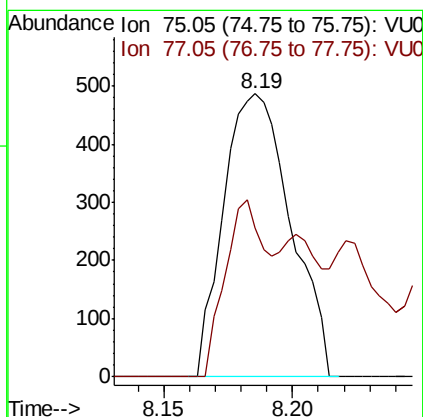
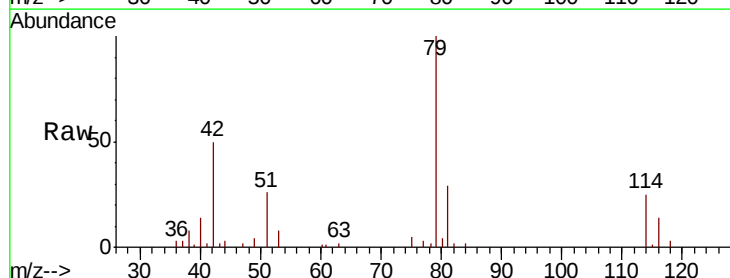
Instrument :
 MSVOA_U
 ClientSampleId :
 BG0F5

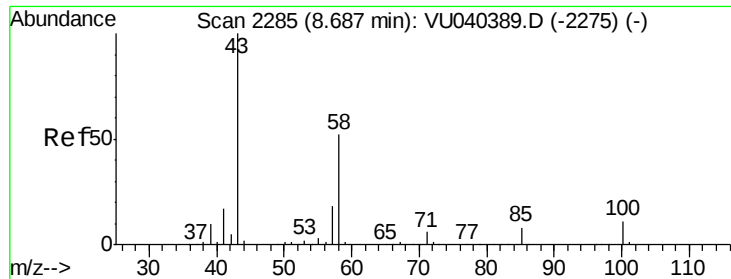
Tot Ion: 63 Resp: 5297
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.2 4.8#



#44
 trans-1,3-Dichloropropene
 Concen: 0.061 ug/L
 RT: 8.19 min Scan# 2129
 Delta R.T. -0.03 min
 Lab File: VU040409.D
 Acq: 30 Sep 2020 19:31

Tgt Ion: 75 Resp: 884
 Ion Ratio Lower Upper
 75 100
 77 52.6 22.3 41.3#

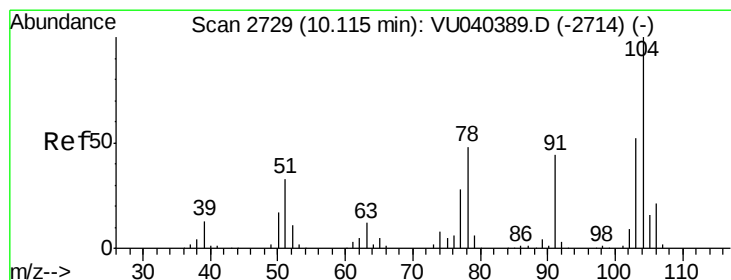
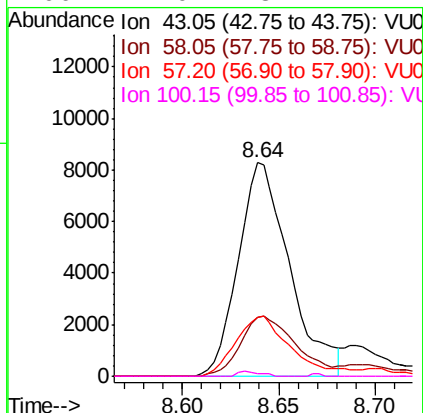
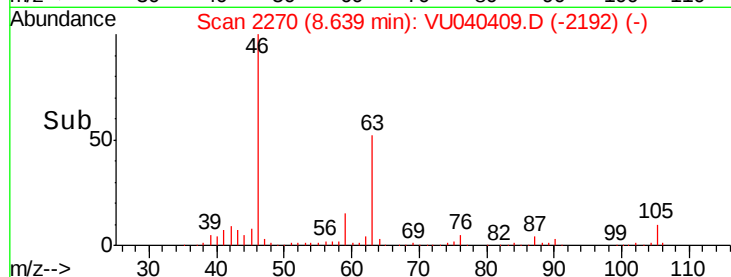
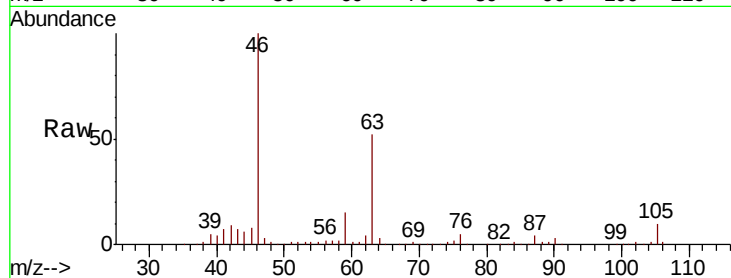




#48
2-Hexanone
Concen: 2.255 ug/L
RT: 8.64 min Scan# 2270
Delta R.T. -0.05 min
Lab File: VU040409.D
Acq: 30 Sep 2020 19:31

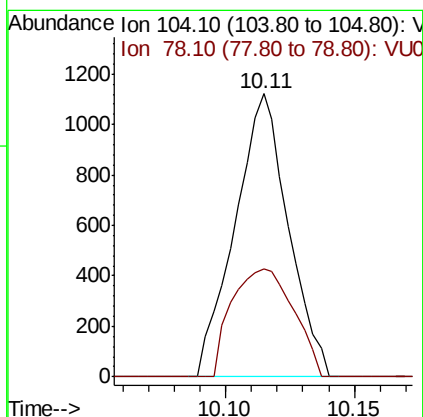
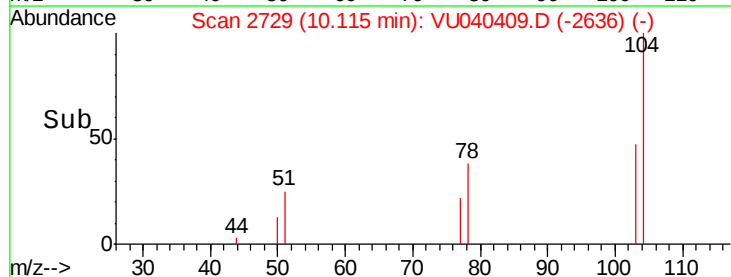
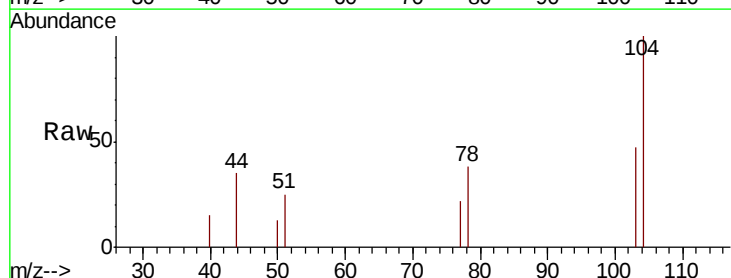
Instrument :
MSVOA_U
ClientSampleId :
BG0F5

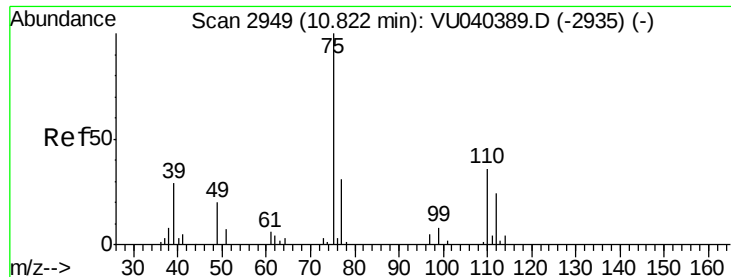
Tot Ion: 43 Resp: 15272
Ion Ratio Lower Upper
43 100
58 30.5 41.0 61.4#
57 30.9 14.6 22.0#
100 1.0 8.2 12.4#



#55
Styrene
Concen: 0.057 ug/L
RT: 10.11 min Scan# 2729
Delta R.T. 0.00 min
Lab File: VU040409.D
Acq: 30 Sep 2020 19:31

Tgt Ion: 104 Resp: 1620
Ion Ratio Lower Upper
104 100
78 38.0 34.4 63.8





#59

1,2,3-Trichloropropane

Concen: 0.931 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.98 min

Lab File: VU040409.D

Acq: 30 Sep 2020 19:31

Instrument :

MSVOA_U

ClientSampleId :

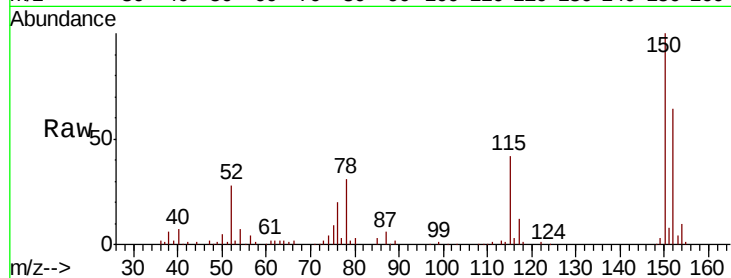
BG0F5

Tot Ion: 75 Resp: 7922

Ion Ratio Lower Upper

75 100

77 32.7 25.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

