

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U101920\
 Data File : VU040829.D
 Acq On : 20 Oct 2020 01:23
 Operator : SY/MD
 Sample : L4420-14
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 COAL0

Quant Time: Oct 20 05:21:15 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	108178	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	112863	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	43887	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	25872	2.89	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	57.80%
7) Chloroethane-d5	1.93	69	28538	4.13	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	82.60%
11) 1,1-Dichloroethene-d2	2.58	63	44715	2.55	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	51.00%#
20) 2-Butanone-d5	4.66	46	168581	58.77	ug/L	0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	117.54%
24) Chloroform-d	5.08	84	78139	4.97	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.40%
26) 1,2-Dichloroethane-d4	5.72	65	48629	5.07	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.40%
32) Benzene-d6	5.75	84	127430	4.19	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	83.80%
36) 1,2-Dichloropropane-d6	6.70	67	47118	4.66	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	93.20%
41) Toluene-d8	7.91	98	92993	3.41	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	68.20%#
43) trans-1,3-Dichloropropene-	8.19	79	17426	4.07	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	81.40%
46) 2-Hexanone-d5	8.64	63	111073	50.35	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	100.70%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	47322	5.22	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	104.40%
64) 1,2-Dichlorobenzene-d4	12.19	152	43099	5.30	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	106.00%

Target Compounds

					Ovalue
3) Chloromethane	1.53	50	1141	0.124 ug/L	90
8) Chloroethane	1.95	64	274	0.045 ug/L #	41
13) Acetone	2.67	43	1666	0.749 ug/L	91
19) 1,1-Dichloroethane	3.89	63	1276	0.076 ug/L #	86
22) cis-1,2-Dichloroethene	4.69	96	1799	0.206 ug/L	88
25) Chloroform	5.11	83	2955	0.173 ug/L	93
27) 1,2-Dichloroethane	5.75	62	678	0.056 ug/L #	77
31) Carbon tetrachloride	5.55	117	1449	0.112 ug/L	91
33) Benzene	5.74	78	953	0.026 ug/L	100
34) Trichloroethene	6.56	95	4249	0.452 ug/L	90
35) Methylcyclohexane	6.70	83	11310	0.849 ug/L #	14
37) 1,2-Dichloropropane	6.70	63	5542	0.549 ug/L #	87
39) cis-1,3-Dichloropropene	7.58	75	1267	0.092 ug/L #	61
44) trans-1,3-Dichloropropene	8.19	75	946	0.074 ug/L #	80
47) Tetrachloroethene	8.56	164	2104	0.314 ug/L	98
48) 2-Hexanone	8.64	43	17228	2.873 ug/L #	70
49) Dibromochloromethane	8.56	129	2411	0.277 ug/L #	9

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Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 20 05:12:18 2020
Response via : Initial Calibration

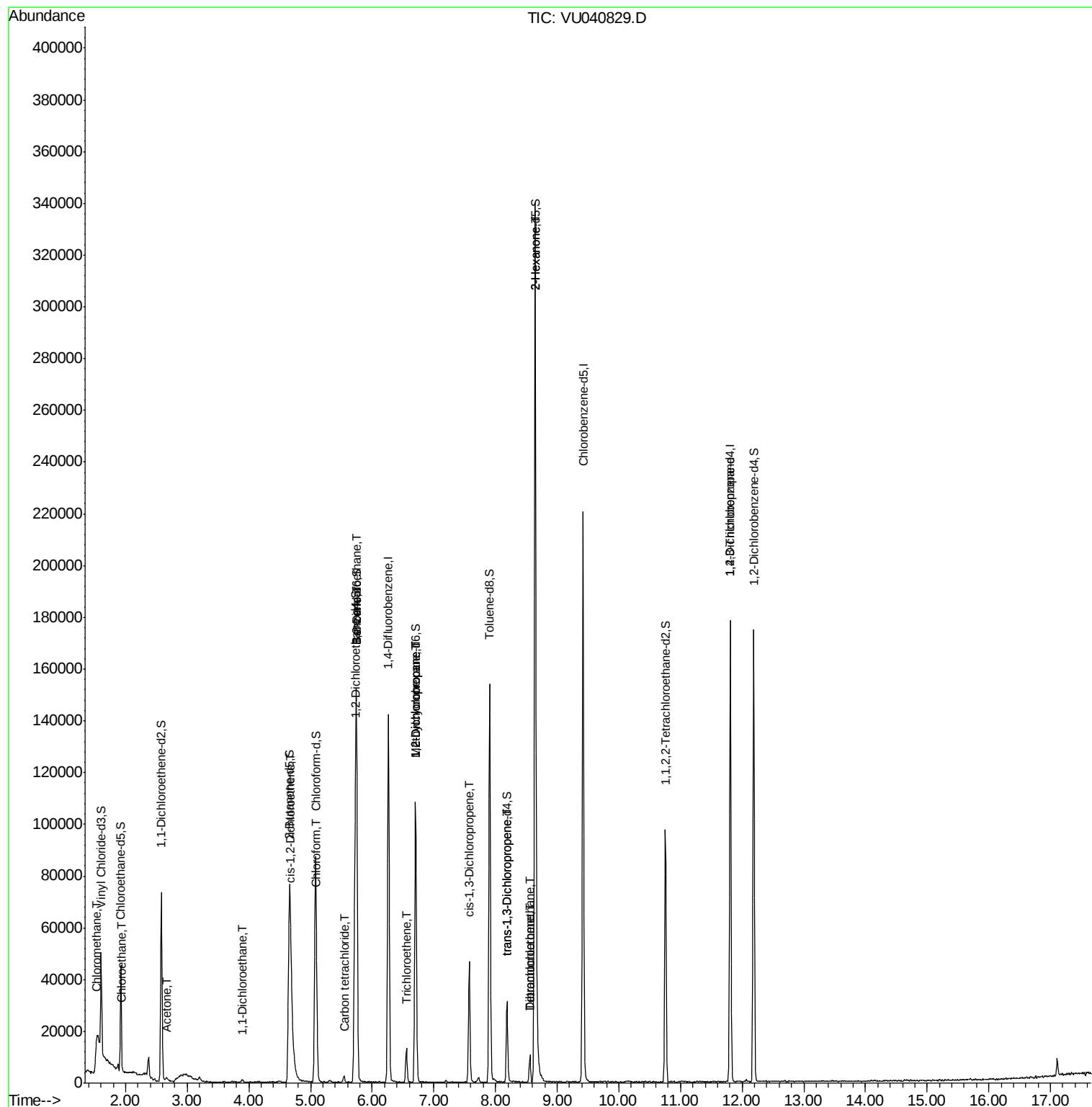
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
59) 1,2,3-Trichloropropane	11.81	75	6042	0.814	ug/L	89

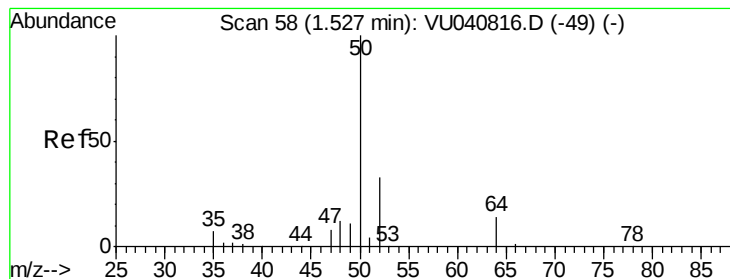
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.124 ug/L

RT: 1.53 min Scan# 58

Delta R.T. 0.00 min

Lab File: VU040829.D

Acq: 20 Oct 2020 01:23

Instrument :

MSVOA_U

ClientSampled :

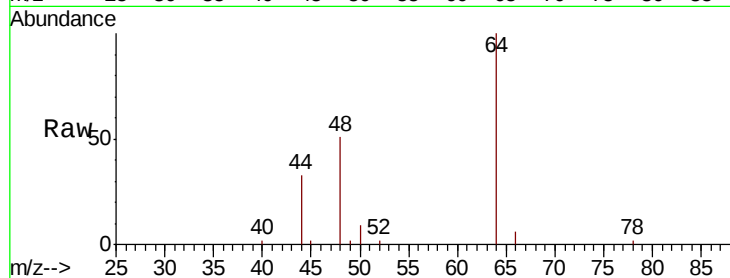
COAL0

Tot Ion: 50 Resp: 1141

Ion Ratio Lower Upper

50 100

52 26.0 21.9 40.7



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0

800

600

400

200

0

1.48

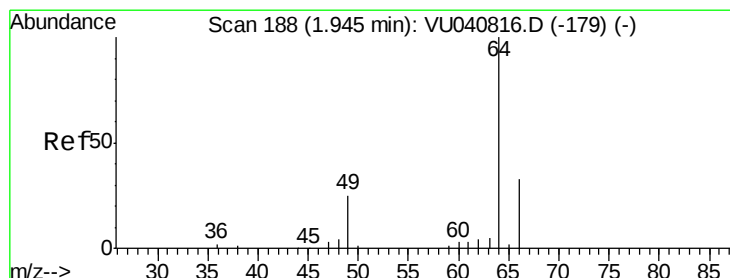
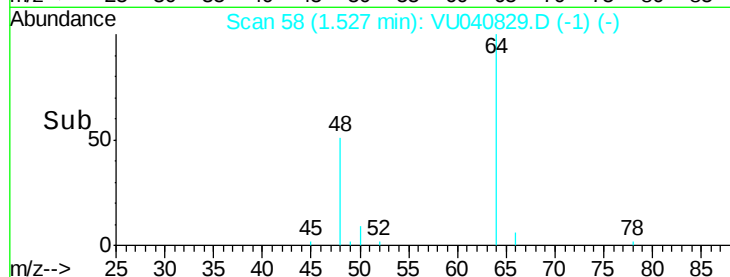
1.50

1.52

1.54

1.56

Time-->



#8

Chloroethane

Concen: 0.045 ug/L

RT: 1.95 min Scan# 189

Delta R.T. 0.00 min

Lab File: VU040829.D

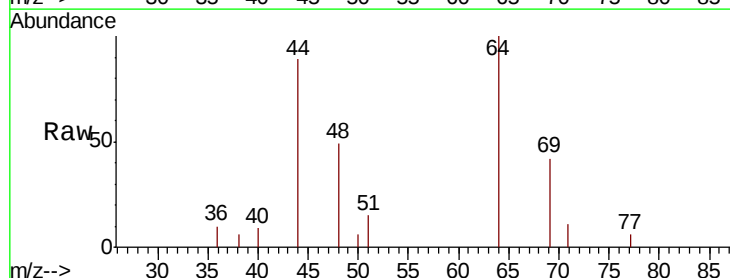
Acq: 20 Oct 2020 01:23

Tgt Ion: 64 Resp: 274

Ion Ratio Lower Upper

64 100

66 0.0 23.3 43.3#



Abundance Ion 64.10 (63.80 to 64.80): VU0

Ion 66.05 (65.75 to 66.75): VU0

2000

1500

1000

500

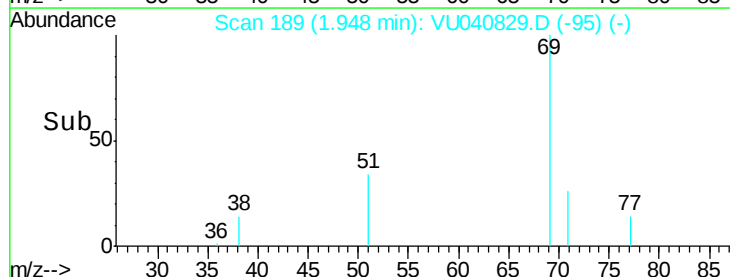
0

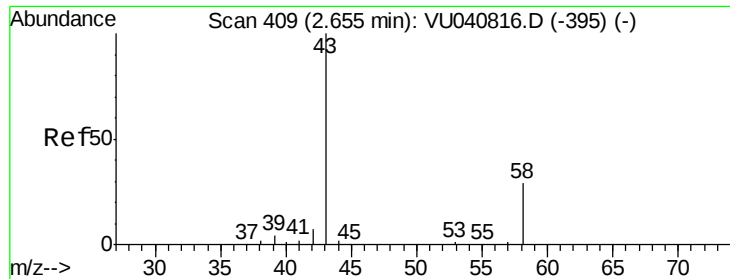
1.92

1.94

1.96

Time-->





#13

Acetone

Concen: 0.749 ug/L

RT: 2.67 min Scan# 413

Delta R.T. 0.01 min

Lab File: VU040829.D

Acq: 20 Oct 2020 01:23

Instrument :

MSVOA_U

ClientSampled :

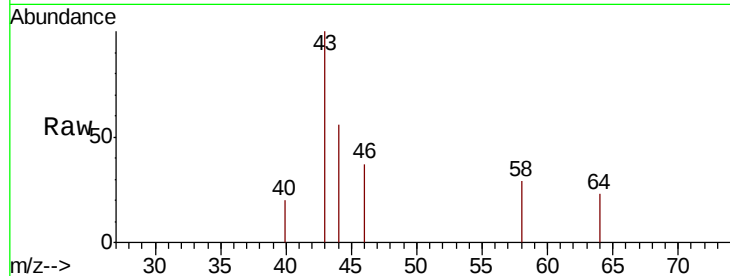
COAL0

Tot Ion: 43 Resp: 1666

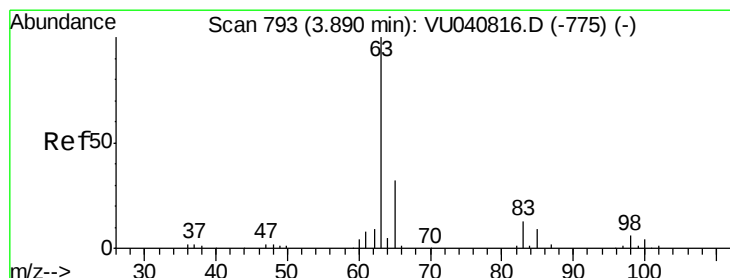
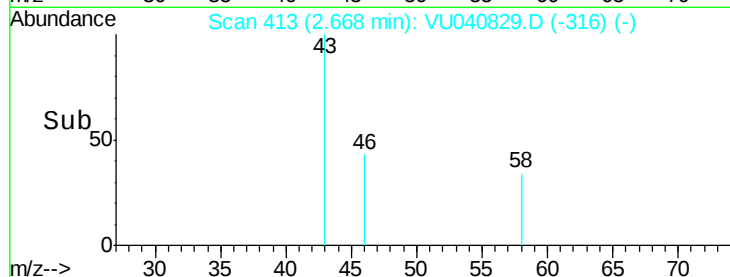
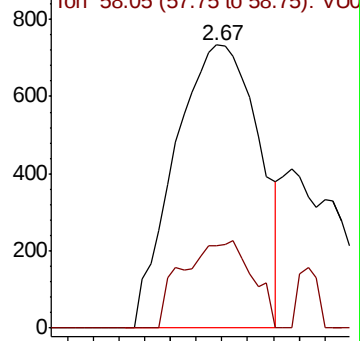
Ion Ratio Lower Upper

43 100

58 25.5 0.0 60.6



Abundance Ion 43.05 (42.75 to 43.75): VU040829.D (-316) (-)



#19

1,1-Dichloroethane

Concen: 0.076 ug/L

RT: 3.89 min Scan# 792

Delta R.T. -0.00 min

Lab File: VU040829.D

Acq: 20 Oct 2020 01:23

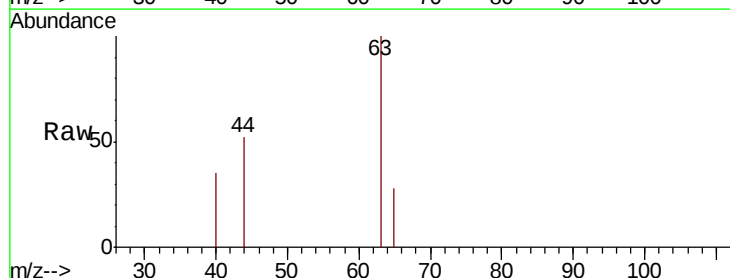
Tgt Ion: 63 Resp: 1276

Ion Ratio Lower Upper

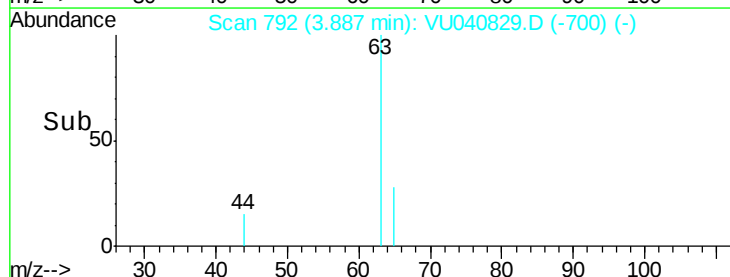
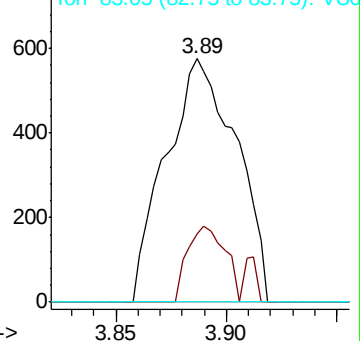
63 100

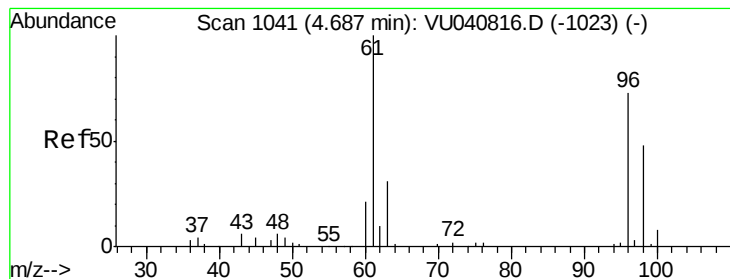
65 28.1 21.9 40.7

83 0.0 9.6 17.8#



Abundance Ion 63.10 (62.80 to 63.80): VU040829.D (-700) (-)





#22

cis-1,2-Dichloroethene

Concen: 0.206 ug/L

RT: 4.69 min Scan# 1041

Delta R.T. 0.00 min

Lab File: VU040829.D

Acq: 20 Oct 2020 01:23

Instrument :

MSVOA_U

ClientSampleId :

C0AL0

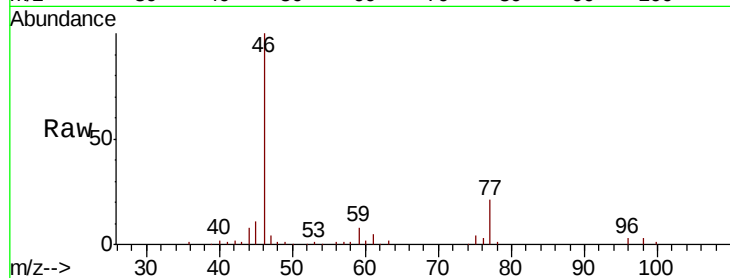
Tot Ion: 96 Resp: 1799

Ion Ratio Lower Upper

96 100

61 157.0 99.8 185.4

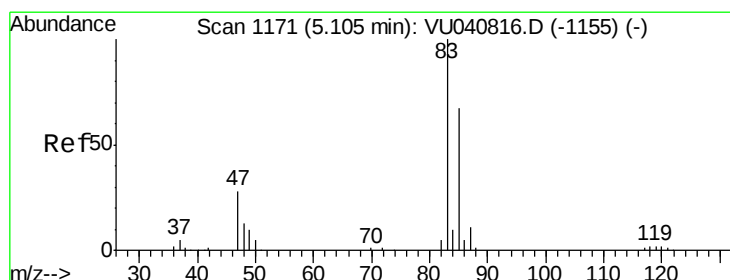
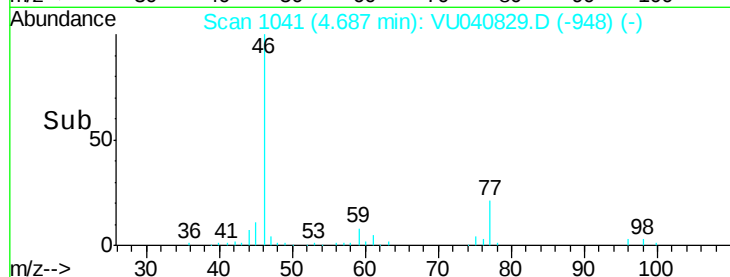
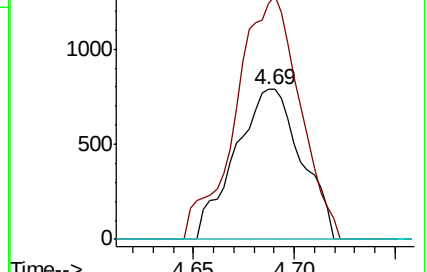
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU040829.D (-1023) (-)

Ion 61.05 (60.75 to 61.75): VU040829.D (-1023) (-)

Ion 68.15 (67.85 to 68.85): VU040829.D (-1023) (-)



#25

Chloroform

Concen: 0.173 ug/L

RT: 5.11 min Scan# 1171

Delta R.T. 0.00 min

Lab File: VU040829.D

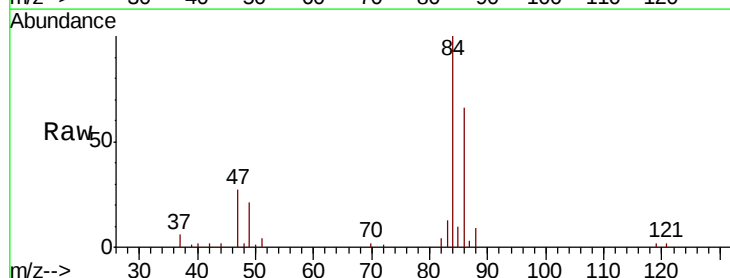
Acq: 20 Oct 2020 01:23

Tgt Ion: 83 Resp: 2955

Ion Ratio Lower Upper

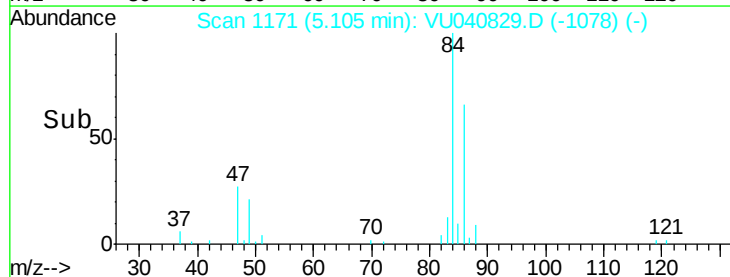
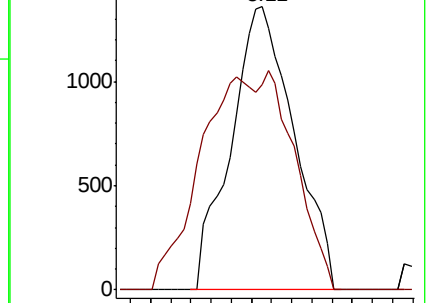
83 100

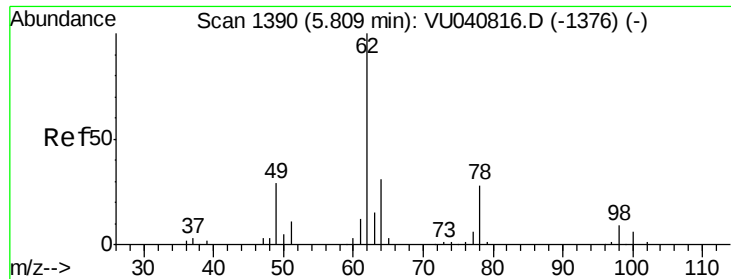
85 72.4 46.5 86.5



Abundance Ion 83.05 (82.75 to 83.75): VU040829.D (-1078) (-)

Ion 85.00 (84.70 to 85.70): VU040829.D (-1078) (-)





#27

1,2-Dichloroethane

Concen: 0.056 ug/L

RT: 5.75 min Scan# 1371

Delta R.T. -0.06 min

Lab File: VU040829.D

Acq: 20 Oct 2020 01:23

Instrument :

MSVOA_U

ClientSampleId :

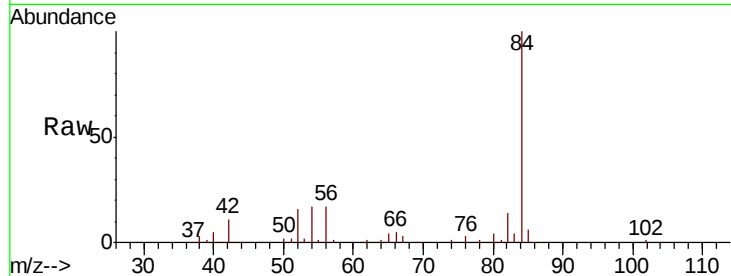
C0AL0

Tot Ion: 62 Resp: 678

Ion Ratio Lower Upper

62 100

98 0.0 6.6 10.0#



Abundance Ion 62.00 (61.70 to 62.70): VU040829.D (-1297) (-)

Ion 98.05 (97.75 to 98.75): VU040829.D (-1297) (-)

5.75

400

300

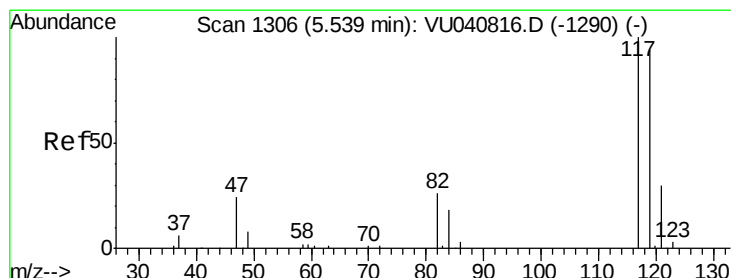
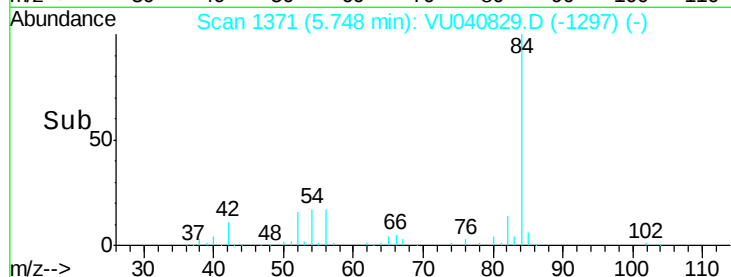
200

100

0

5.70 5.72 5.74 5.76 5.78

Time-->



#31

Carbon tetrachloride

Concen: 0.112 ug/L

RT: 5.55 min Scan# 1308

Delta R.T. 0.01 min

Lab File: VU040829.D

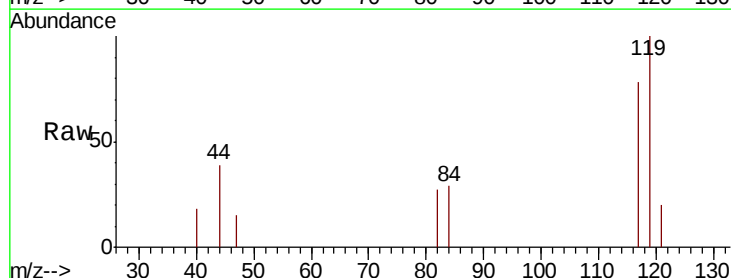
Acq: 20 Oct 2020 01:23

Tgt Ion: 117 Resp: 1449

Ion Ratio Lower Upper

117 100

119 103.7 76.2 114.2



Abundance Ion 116.90 (116.60 to 117.60): VU040829.D (-1213) (-)

Ion 118.90 (118.60 to 119.60): VU040829.D (-1213) (-)

5.55

1000

800

600

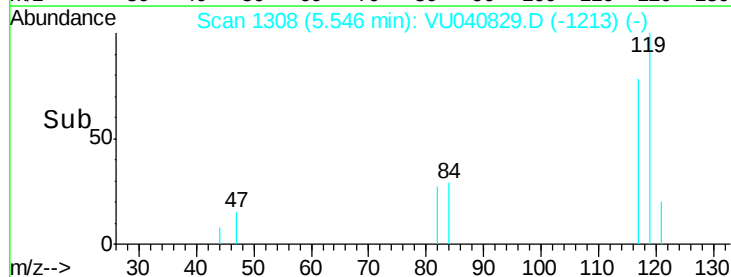
400

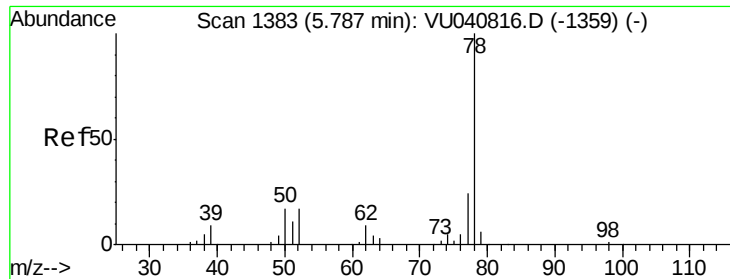
200

0

5.50 5.52 5.54 5.56 5.58

Time-->





#33

Benzene

Concen: 0.026 ug/L

RT: 5.74 min Scan# 1369

Delta R.T. -0.04 min

Lab File: VU040829.D

Acq: 20 Oct 2020 01:23

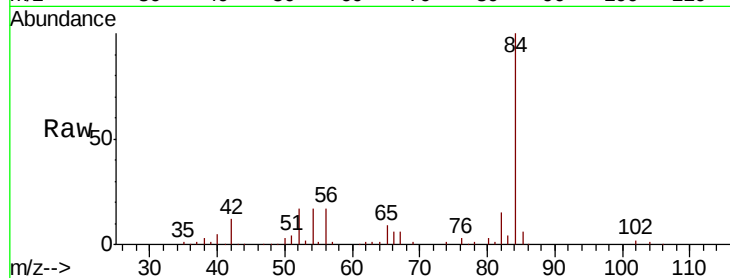
Instrument :

MSVOA_U

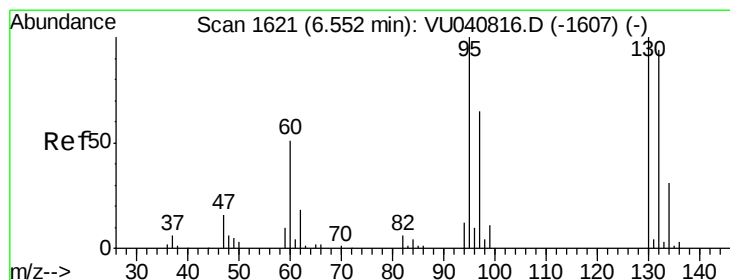
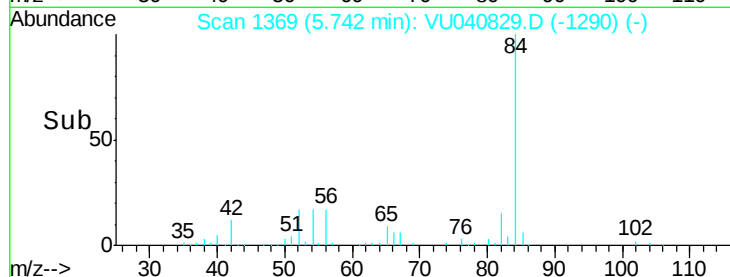
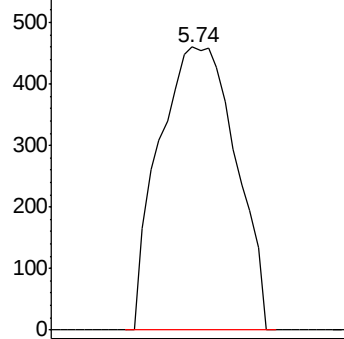
ClientSampled :

COAL0

Tgt Ion: 78 Resp: 953



Abundance Ion 78.10 (77.80 to 78.80): VU0



#34

Trichloroethene

Concen: 0.452 ug/L

RT: 6.56 min Scan# 1622

Delta R.T. 0.00 min

Lab File: VU040829.D

Acq: 20 Oct 2020 01:23

Tgt Ion: 95 Resp: 4249

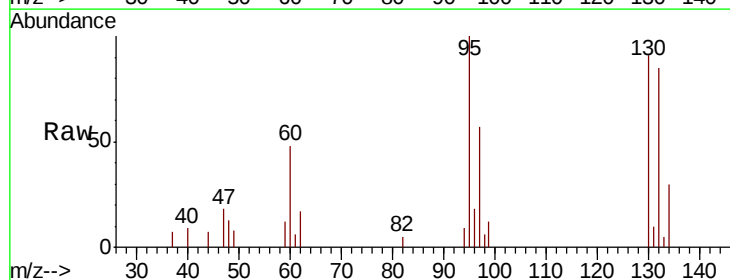
Ion	Ratio	Lower	Upper
95	100		
97	57.0	45.5	84.5
132	85.3	67.5	125.4
130	91.4	69.9	129.9

Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): VU0

Ion 129.95 (129.65 to 130.65): VU0



Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): VU0

Ion 129.95 (129.65 to 130.65): VU0

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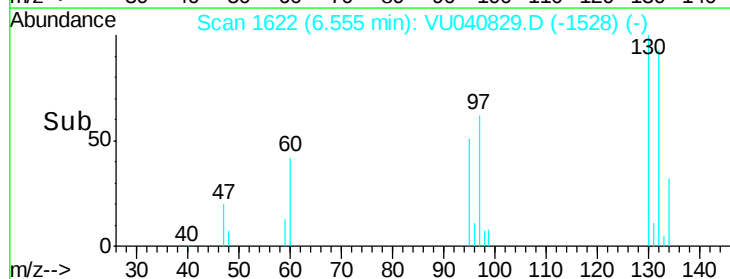
Ion 129.95 (129.65 to 130.65): VU0

Ion 129.95 (129.65 to 130.65): VU0

Ion 129.95 (129.65 to 130.65): VU0

Ion 129.95 (129.65 to 130.65): VU0

Ion 129.95 (129.65 to 130.65): VU0



Time-->

Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): VU0

Ion 129.95 (129.65 to 130.65): VU0

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Ion 129.95 (129.65 to 130.65): VU0

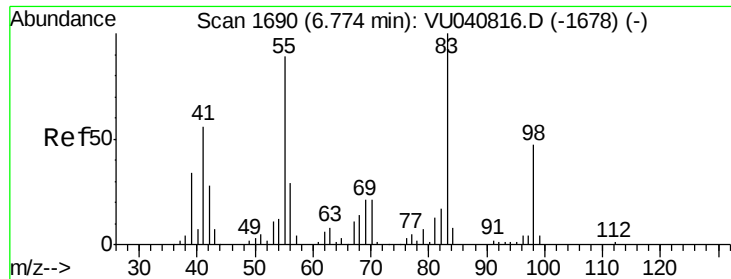
Ion 129.95 (129.65 to 130.65): VU0

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Ion 129.95 (129.65 to 130.65): VU0

Ion 129.95 (129.65 to 130.65): VU0

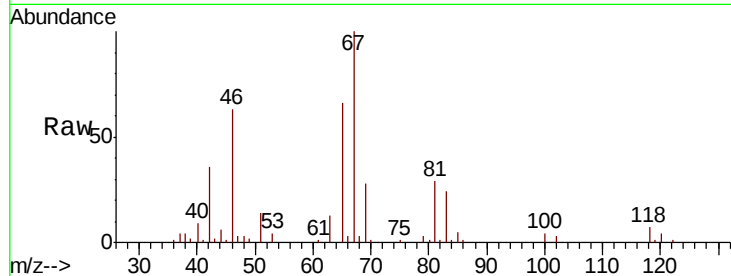
Ion 129.95 (129.65 to 130.65): VU0



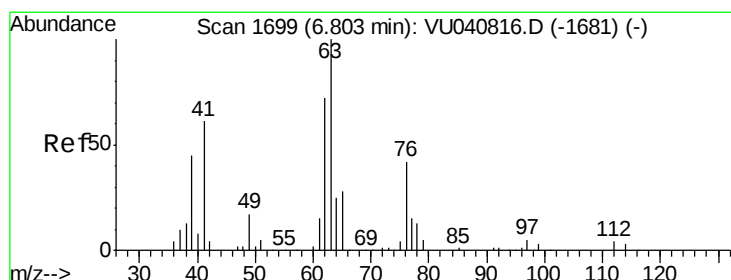
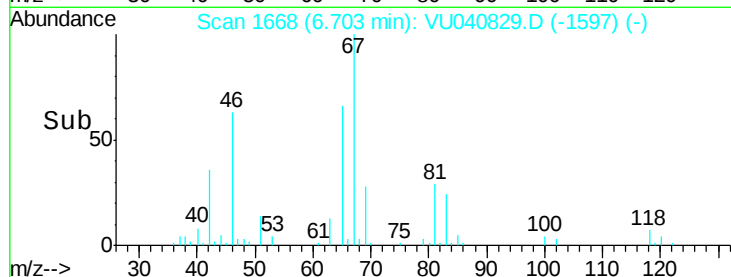
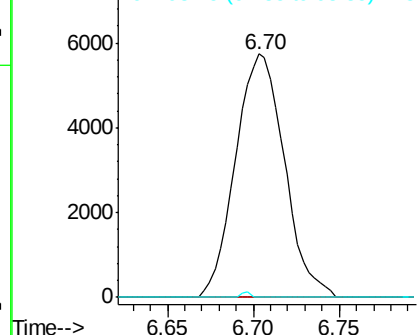
#35
Methvlcvclohexane
Concen: 0.849 ug/L
RT: 6.70 min Scan# 1668
Delta R.T. -0.07 min
Lab File: VU040829.D
Acq: 20 Oct 2020 01:23

Instrument :
MSVOA_U
ClientSampleId :
COAL0

Tot Ion: 83 Resp: 11310
Ion Ratio Lower Upper
83 100
55 0.0 70.7 106.1#
98 0.4 38.4 57.6#

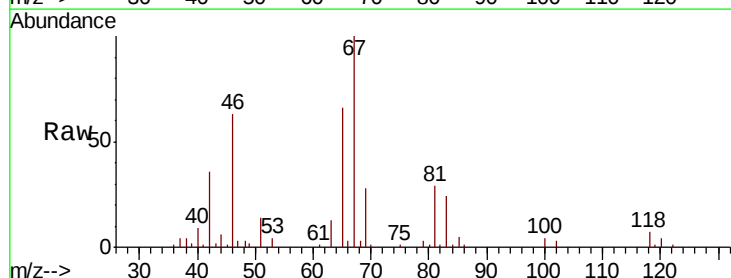


Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0

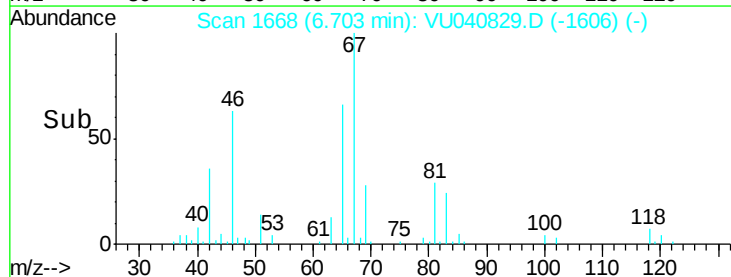
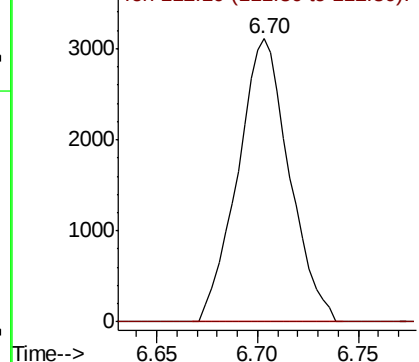


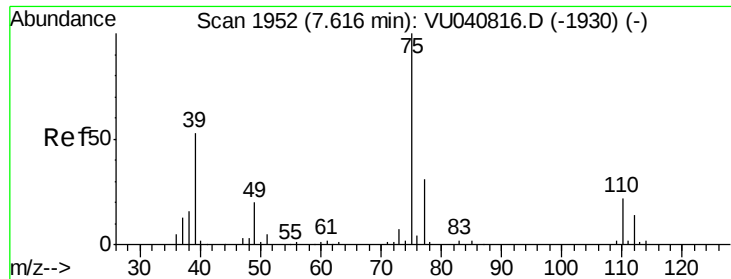
#37
1,2-Dichloropropane
Concen: 0.549 ug/L
RT: 6.70 min Scan# 1668
Delta R.T. -0.10 min
Lab File: VU040829.D
Acq: 20 Oct 2020 01:23

Tgt Ion: 63 Resp: 5542
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

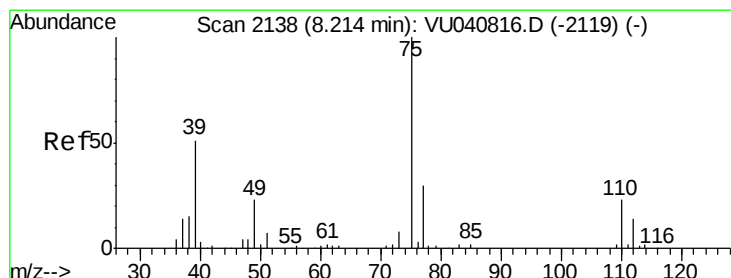
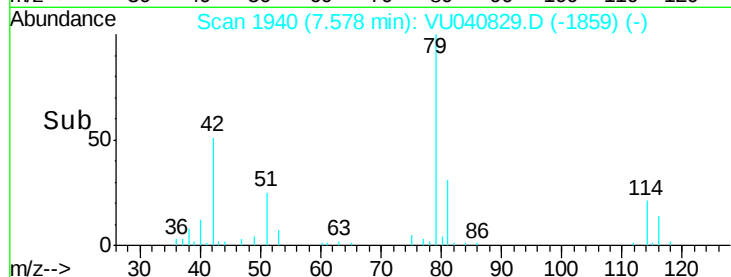
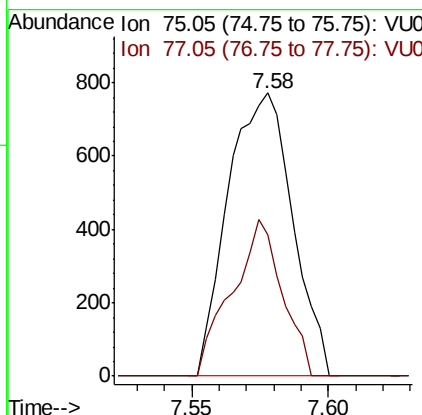
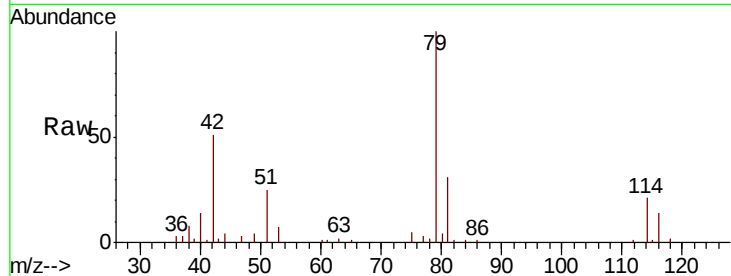




#39
 cis-1,3-Dichloropropene
 Concen: 0.092 ug/L
 RT: 7.58 min Scan# 1940
 Delta R.T. -0.04 min
 Lab File: VU040829.D
 Acq: 20 Oct 2020 01:23

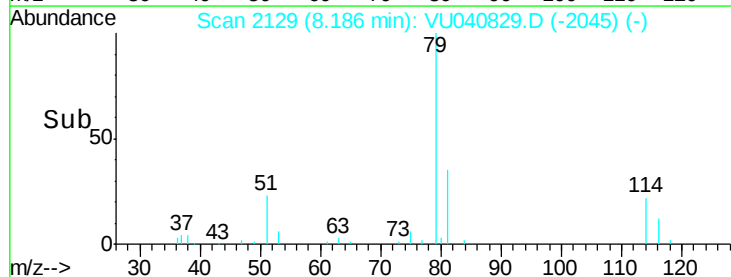
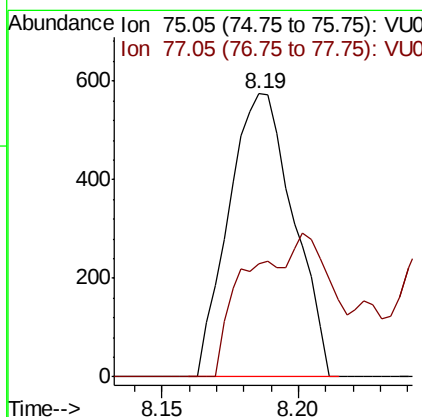
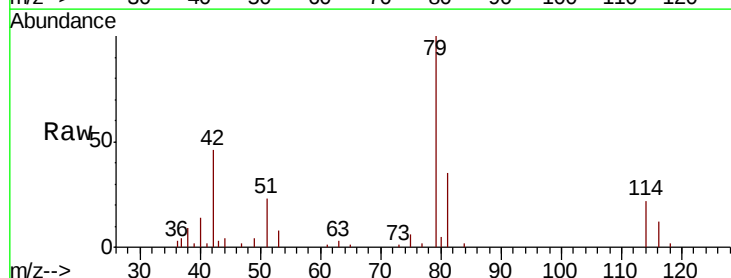
Instrument :
 MSVOA_U
 ClientSampled :
 COAL0

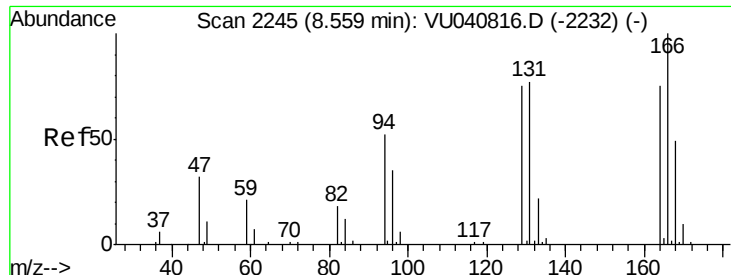
Tot Ion: 75 Resp: 1267
 Ion Ratio Lower Upper
 75 100
 77 50.1 20.5 38.1#



#44
 trans-1,3-Dichloropropene
 Concen: 0.074 ug/L
 RT: 8.19 min Scan# 2129
 Delta R.T. -0.03 min
 Lab File: VU040829.D
 Acq: 20 Oct 2020 01:23

Tgt Ion: 75 Resp: 946
 Ion Ratio Lower Upper
 75 100
 77 40.1 20.4 38.0#

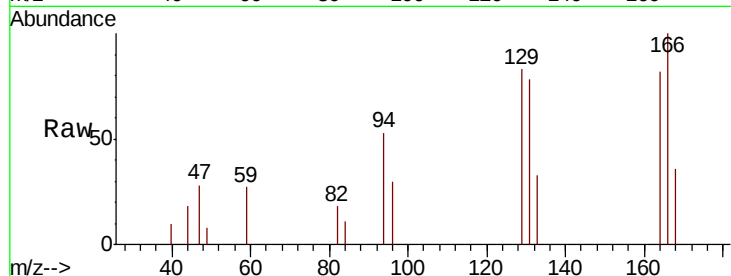




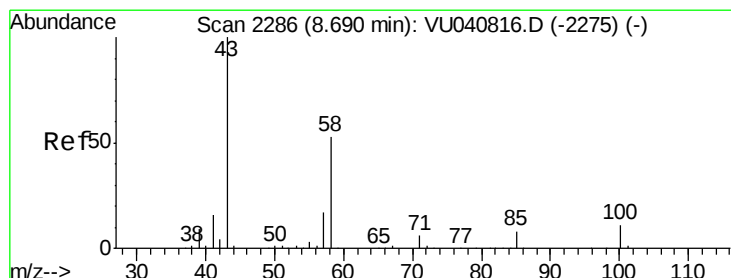
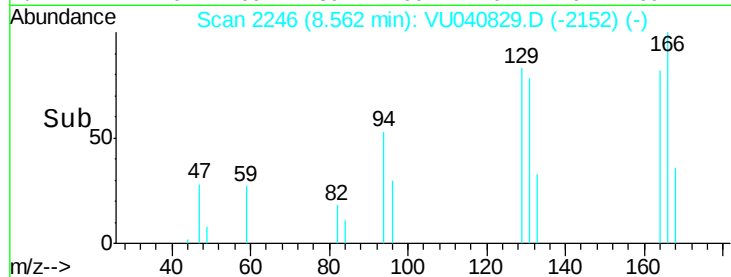
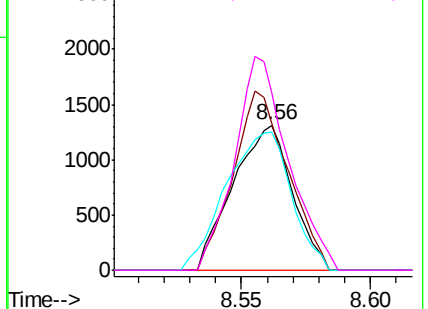
#47
Tetrachloroethene
Concen: 0.314 ug/L
RT: 8.56 min Scan# 2246
Delta R.T. 0.00 min
Lab File: VU040829.D
Acq: 20 Oct 2020 01:23

Instrument :
MSVOA_U
ClientSampleId :
COAL0

Tot Ion:164 Resp: 2104
Ion Ratio Lower Upper
164 100
129 101.4 68.8 127.8
131 95.4 66.7 123.9
166 122.5 83.9 155.7

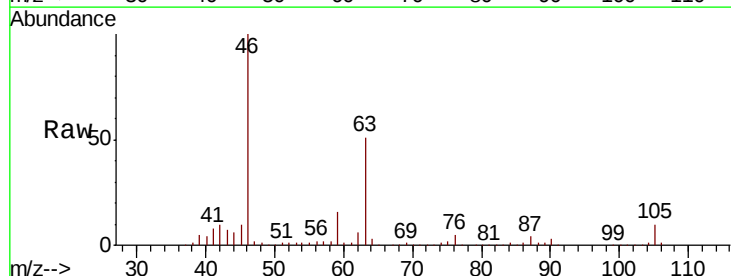


Abundance Ion 163.90 (163.60 to 164.60): V
Ion 128.95 (128.65 to 129.65): V
Ion 130.95 (130.65 to 131.65): V
Ion 165.90 (165.60 to 166.60): V

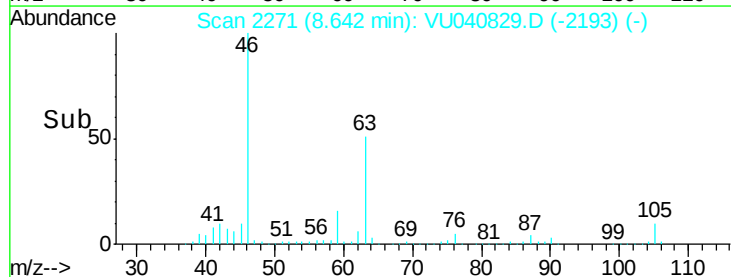
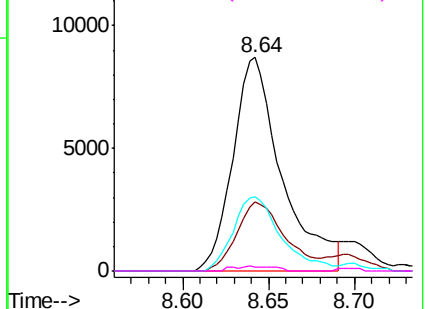


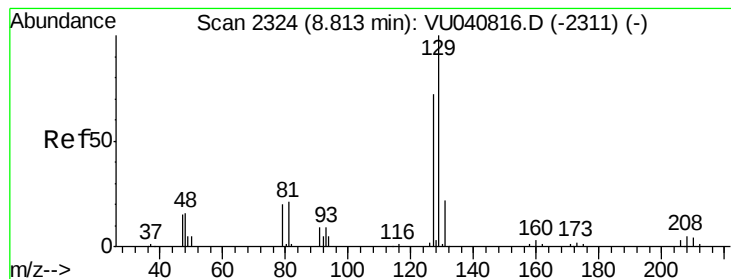
#48
2-Hexanone
Concen: 2.873 ug/L
RT: 8.64 min Scan# 2271
Delta R.T. -0.05 min
Lab File: VU040829.D
Acq: 20 Oct 2020 01:23

Tgt Ion: 43 Resp: 17228
Ion Ratio Lower Upper
43 100
58 31.2 41.0 61.6#
57 34.1 14.4 21.6#
100 1.8 8.6 13.0#



Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0





#49

Dibromochloromethane

Concen: 0.277 ug/L

RT: 8.56 min Scan# 2244

Delta R.T. -0.26 min

Lab File: VU040829.D

Acq: 20 Oct 2020 01:23

Instrument :

MSVOA_U

ClientSampleId :

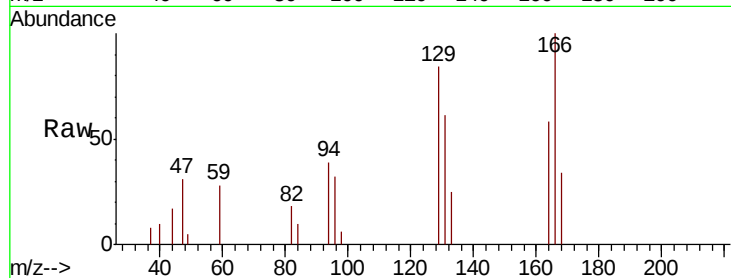
COAL0

Tot Ion:129 Resp: 2411

Ion Ratio Lower Upper

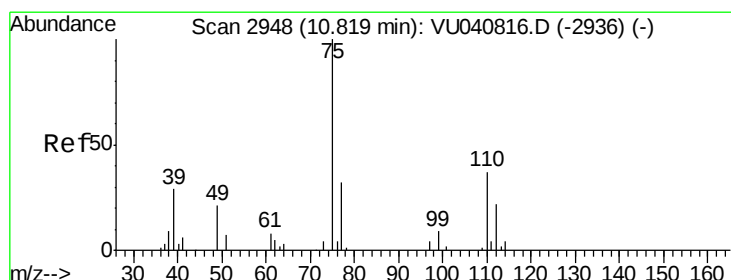
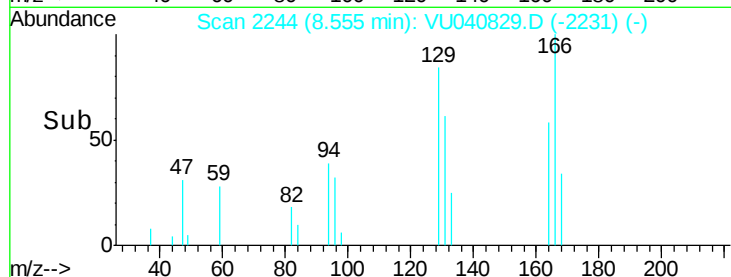
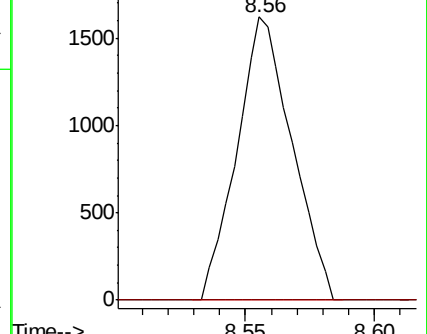
129 100

127 0.0 55.8 103.6#



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: 0.814 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.99 min

Lab File: VU040829.D

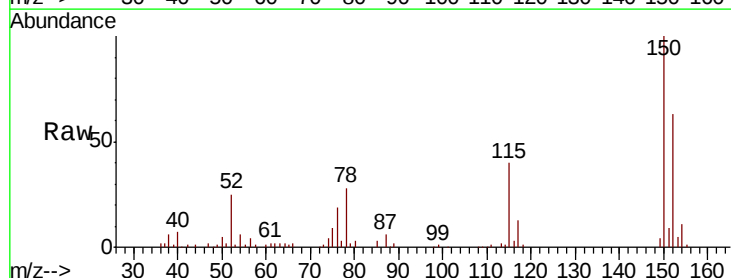
Acq: 20 Oct 2020 01:23

Tgt Ion: 75 Resp: 6042

Ion Ratio Lower Upper

75 100

77 39.1 26.4 39.6



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

