

Data File : VU026829.D
Acq On : 17 Sep 2018 18:36
Operator : MD/SY
Sample : J4864-03 100X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
C0D09

Quant Time: Sep 18 01:38:22 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091718WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Sep 18 01:34:58 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	249190	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	235361	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	95715	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	86883	47.13	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	94.26%
7) Chloroethane-d5	1.68	69	75015	47.54	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	95.08%
11) 1,1-Dichloroethene-d2	2.27	63	125969	36.12	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	72.24%
21) 2-Butanone-d5	4.18	46	130612	106.77	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	106.77%
24) Chloroform-d	4.65	84	162964	47.66	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.32%
26) 1,2-Dichloroethane-d4	5.31	65	105260	48.89	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.78%
32) Benzene-d6	5.34	84	335968	50.94	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.88%
36) 1,2-Dichloropropane-d6	6.33	67	109236	51.40	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	102.80%
41) Toluene-d8	7.57	98	284320	47.71	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.42%
43) trans-1,3-Dichloropropene-	7.85	79	45082	47.51	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	95.02%
47) 2-Hexanone-d5	8.31	63	91112	109.08	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	109.08%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	144823	48.87	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	97.74%
64) 1,2-Dichlorobenzene-d4	11.86	152	107041	53.76	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	107.52%

Target Compounds

					Qvalue
5) Vinyl chloride	1.40	62	21699	9.282	ug/L 96
8) Chloroethane	1.70	64	632	0.431	ug/L 90
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	1129	0.656	ug/L # 18
12) 1,1-Dichloroethene	2.28	96	2585	1.600	ug/L # 1
13) Acetone	2.32	43	1483	1.233	ug/L 85
16) Methylene chloride	2.70	84	11415	5.557	ug/L 95
19) 1,1-Dichloroethane	3.45	63	11619	3.385	ug/L 98
20) cis-1,2-Dichloroethene	4.23	96	116021	59.272	ug/L 97
30) 1,1,1-Trichloroethane	4.92	97	12122	4.329	ug/L 98
31) Carbon tetrachloride	4.92	117	1635	0.652	ug/L 88
34) Trichloroethene	6.19	95	14011	8.002	ug/L 99
37) 1,2-Dichloropropane	6.33	63	11934	5.954	ug/L # 86
39) cis-1,3-Dichloropropene	7.23	75	2571	0.908	ug/L # 51
44) trans-1,3-Dichloropropene	7.85	75	2034	0.767	ug/L 92
52) Ethylbenzene	9.25	91	3638	0.470	ug/L 97
53) m,p-Xylene	9.38	106	3760	1.264	ug/L 87
59) 1,2,3-Trichloropropane	11.48	75	11348	4.726	ug/L 94

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU091718\
Quantitation Report (Not Reviewed)

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Quant Title : VOC Analysis
QLast Update : Tue Sep 18 01:34:58 2018
Response via : Initial Calibration

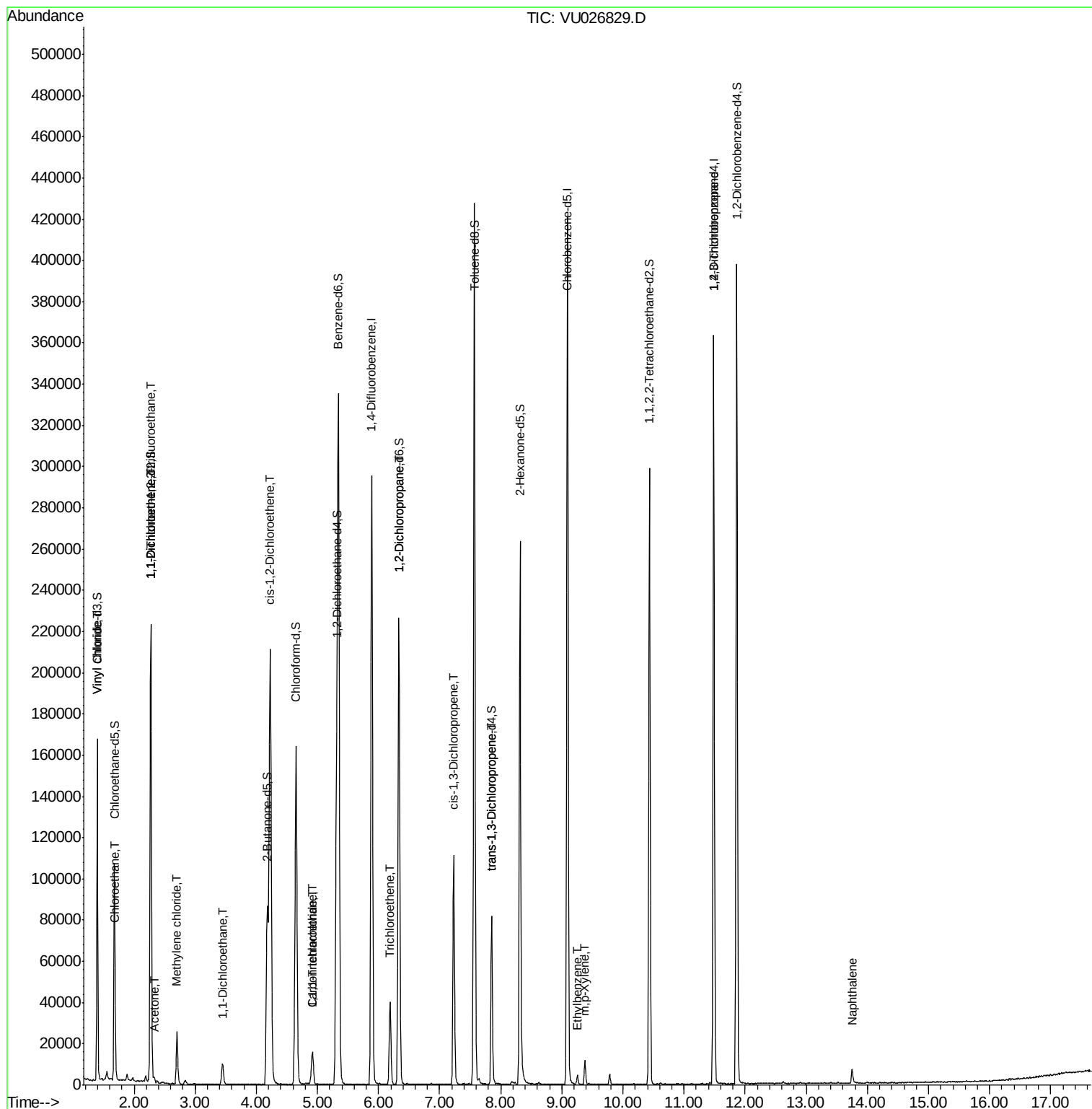
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
69) Naphthalene	13.75	128	6924	1.208	ug/L #	94

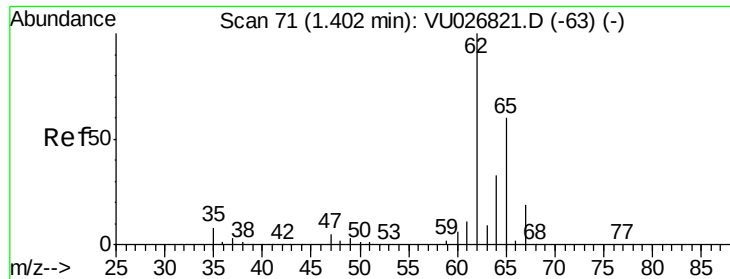
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 9.282 ug/L

RT: 1.40 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU026829.D

Acq: 17 Sep 2018 18:36

Instrument :

MSVOA_U

ClientSampleId :

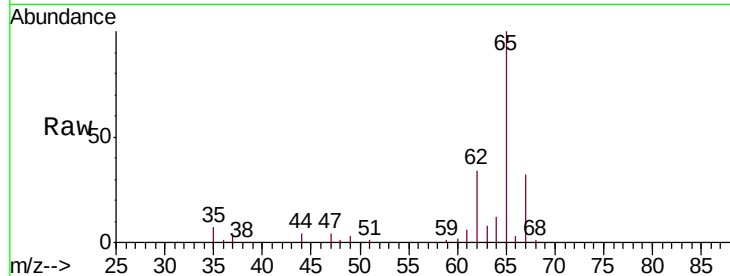
C0D09

Tgt Ion: 62 Resp: 21699

Ion Ratio Lower Upper

62 100

64 34.9 22.7 42.3



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0

25000

20000

15000

10000

5000

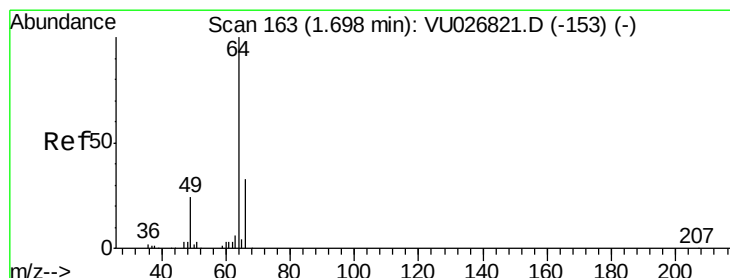
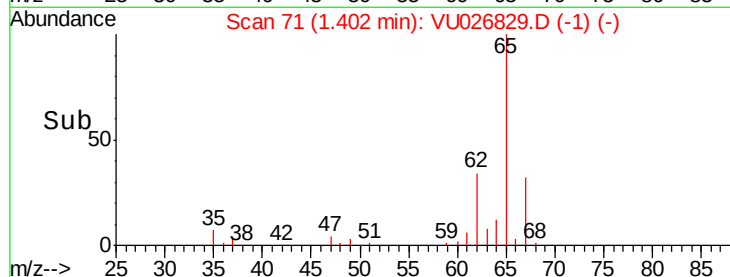
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Time-->

1.35

1.40

1.45



#8

Chloroethane

Concen: 0.431 ug/L

RT: 1.70 min Scan# 163

Delta R.T. -0.00 min

Lab File: VU026829.D

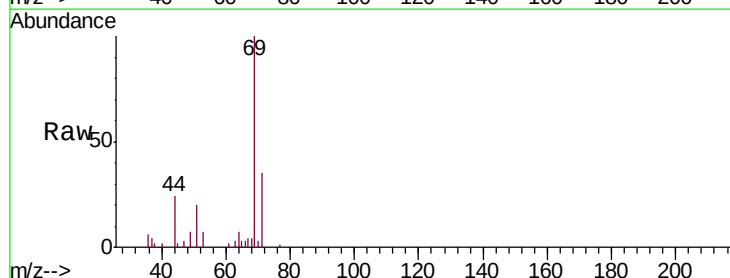
Acq: 17 Sep 2018 18:36

Tgt Ion: 64 Resp: 632

Ion Ratio Lower Upper

64 100

66 38.8 23.0 42.8



Abundance Ion 64.00 (63.70 to 64.70): VU0

Ion 66.00 (65.70 to 66.70): VU0

600

500

400

300

200

100

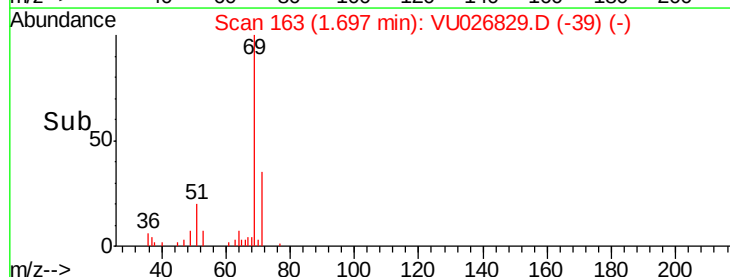
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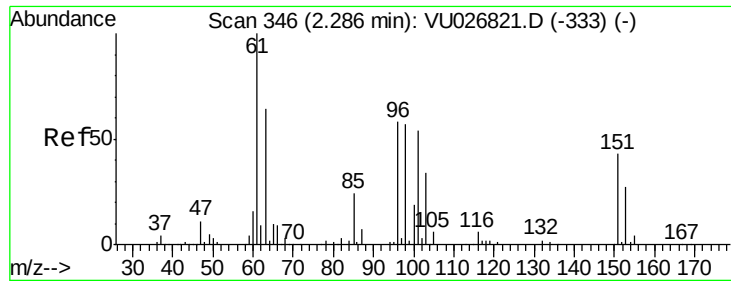
Time-->

1.68

1.70

1.72





#10

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

Concen: 0.656 ug/L

RT: 2.27 min Scan# 342

Delta R.T. -0.01 min

Lab File: VU026829.D

Acq: 17 Sep 2018 18:36

Instrument :

MSVOA_U

ClientSampleId :

C0D09

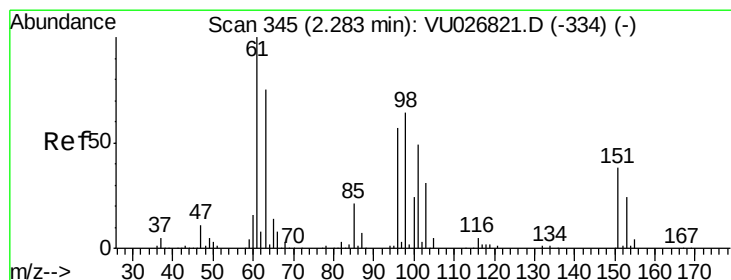
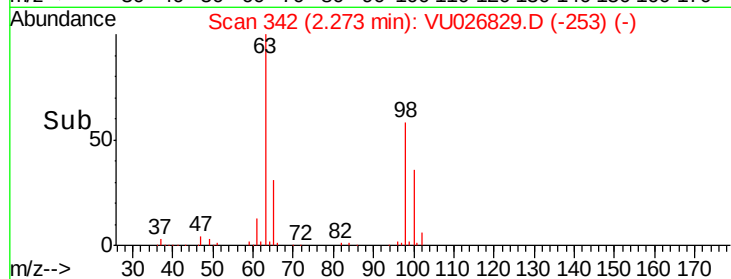
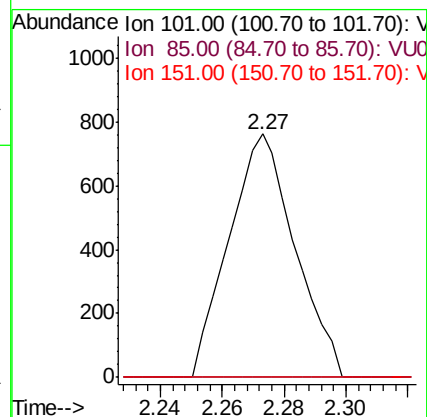
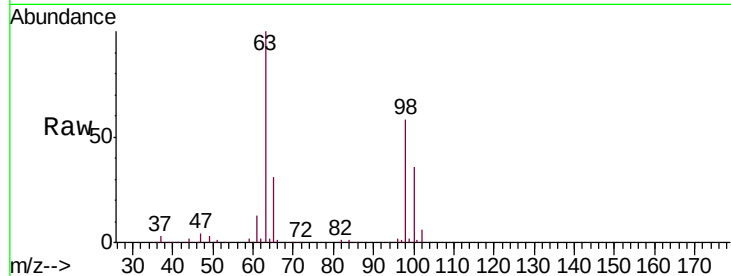
Tgt Ion: 101 Resp: 1129

Ion Ratio Lower Upper

101 100

85 0.0 34.6 52.0#

151 0.0 63.0 94.4#



#12

1,1-Dichloroethene

Concen: 1.600 ug/L

RT: 2.28 min Scan# 344

Delta R.T. -0.00 min

Lab File: VU026829.D

Acq: 17 Sep 2018 18:36

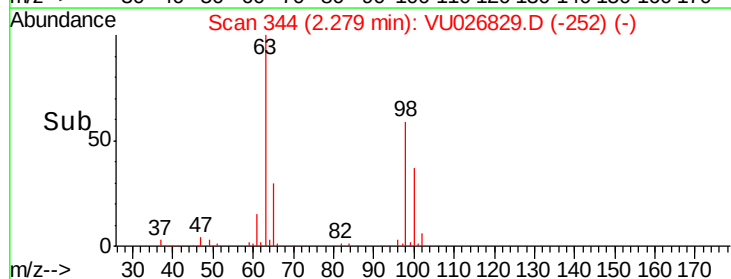
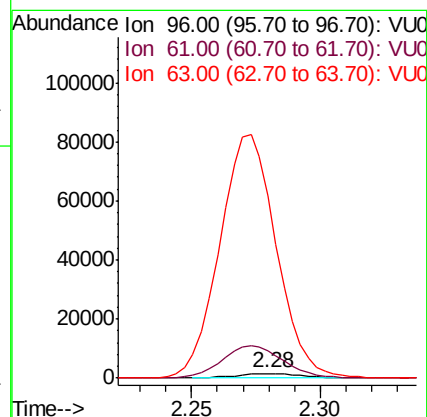
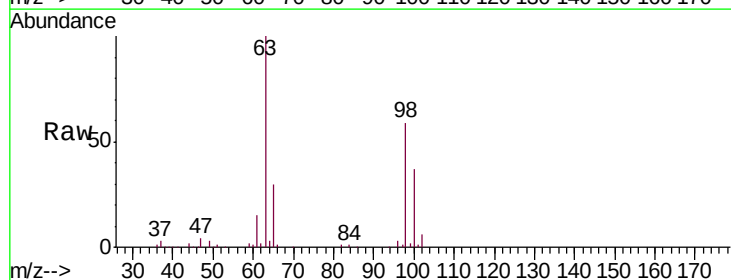
Tgt Ion: 96 Resp: 2585

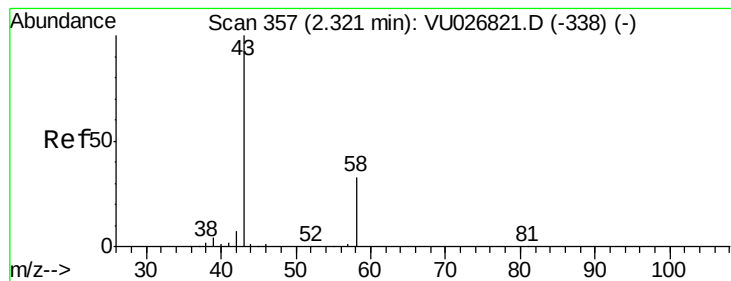
Ion Ratio Lower Upper

96 100

61 585.0 124.0 230.4#

63 3974.3 97.7 181.5#





#13

Acetone

Concen: 1.233 ug/L

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU026829.D

Acq: 17 Sep 2018 18:36

Instrument :

MSVOA_U

ClientSampleID :

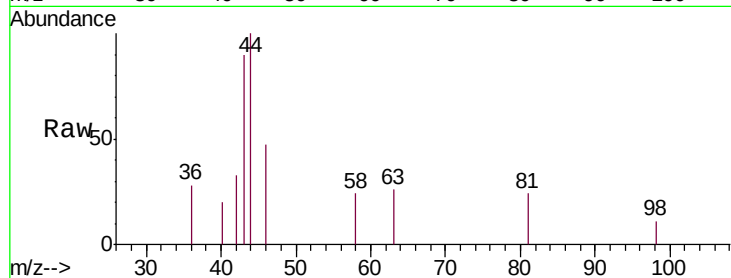
C0D09

Tgt Ion: 43 Resp: 1483

Ion Ratio Lower Upper

43 100

58 24.0 0.0 64.6



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

1000

800

600

400

200

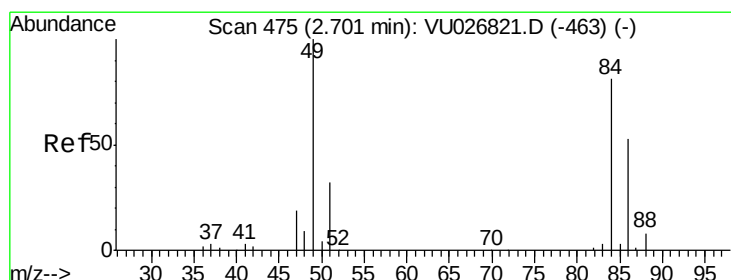
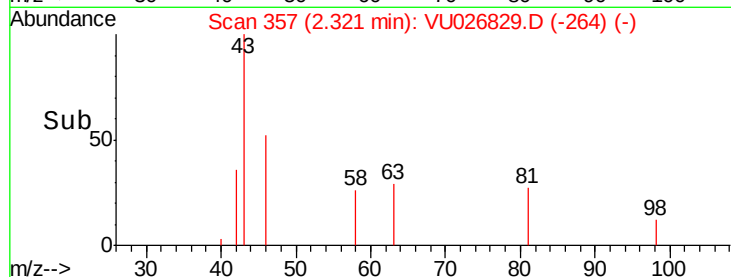
0

2.30

2.32

2.35

Time-->



#16

Methylene chloride

Concen: 5.557 ug/L

RT: 2.70 min Scan# 475

Delta R.T. -0.00 min

Lab File: VU026829.D

Acq: 17 Sep 2018 18:36

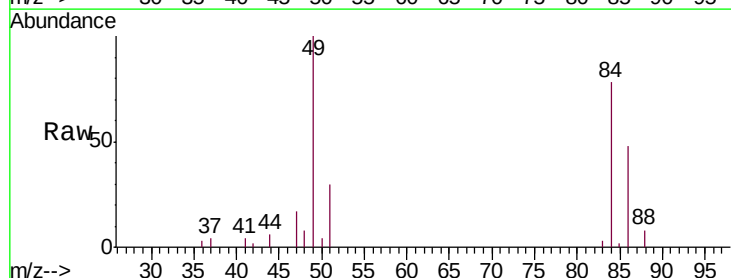
Tgt Ion: 84 Resp: 11415

Ion Ratio Lower Upper

84 100

86 61.4 45.3 84.1

49 128.8 86.2 160.2



Abundance Ion 84.00 (83.70 to 84.70): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.00 (48.70 to 49.70): VU0

10000

8000

6000

4000

2000

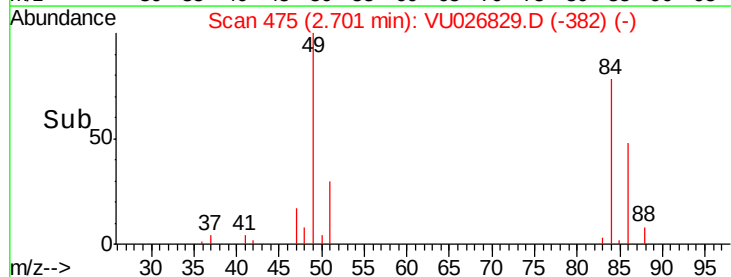
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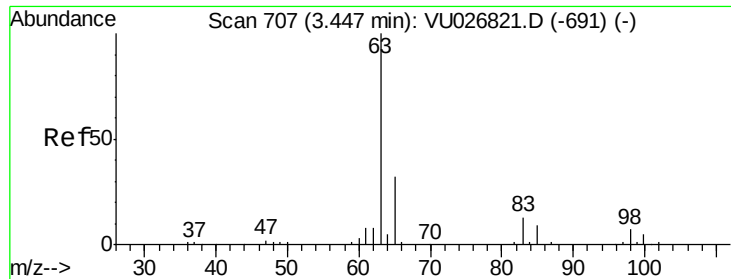
2.65

2.70

2.75

Time-->

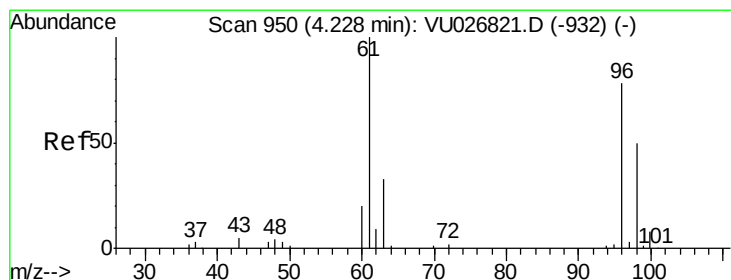
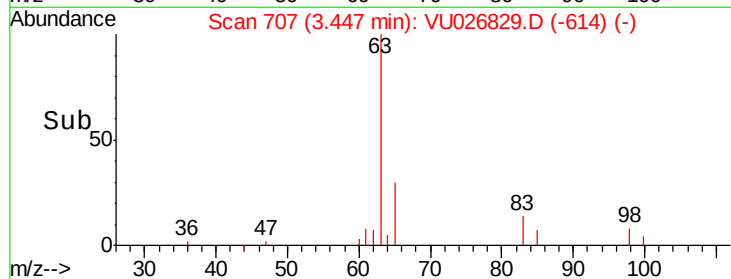
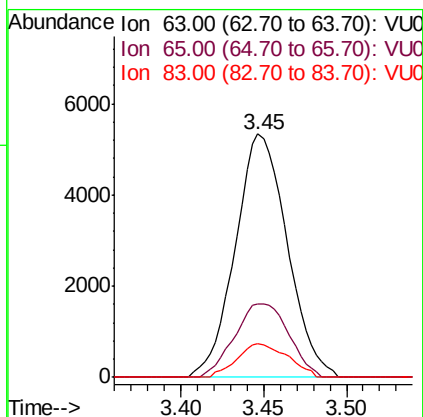
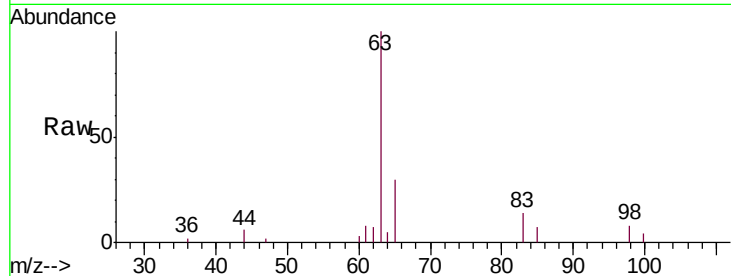




#19
 1,1-Dichloroethane
 Concen: 3.385 ug/L
 RT: 3.45 min Scan# 707
 Delta R.T. -0.00 min
 Lab File: VU026829.D
 Acq: 17 Sep 2018 18:36

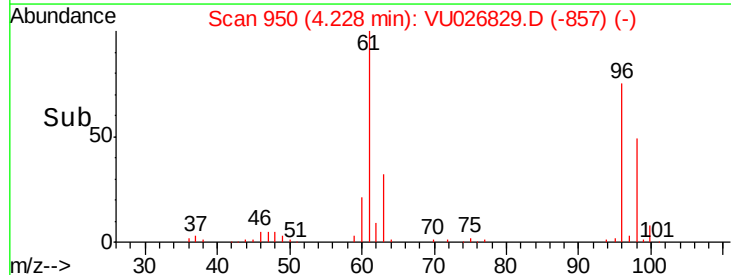
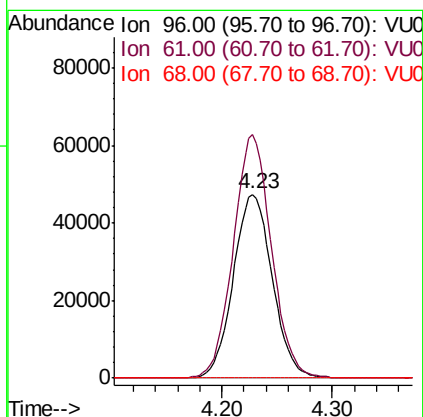
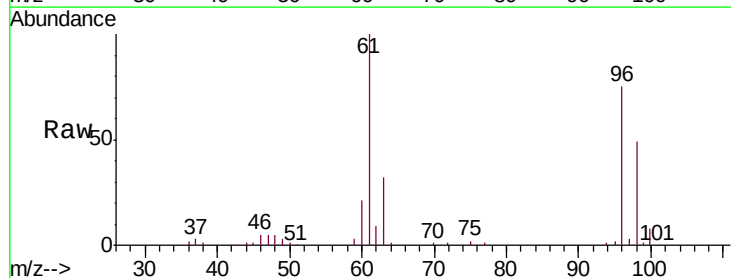
Instrument :
 MSVOA_U
 ClientSampleId :
 C0D09

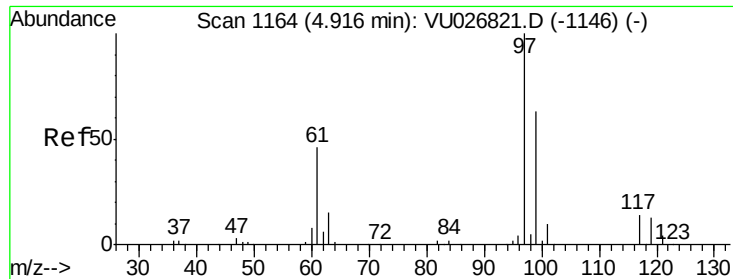
Tgt Ion: 63 Resp: 11619
 Ion Ratio Lower Upper
 63 100
 65 30.1 22.1 41.1
 83 14.0 9.3 17.3



#20
 cis-1,2-Dichloroethene
 Concen: 59.272 ug/L
 RT: 4.23 min Scan# 950
 Delta R.T. -0.00 min
 Lab File: VU026829.D
 Acq: 17 Sep 2018 18:36

Tgt Ion: 96 Resp: 116021
 Ion Ratio Lower Upper
 96 100
 61 132.6 90.2 167.4
 68 0.0 0.0 0.0

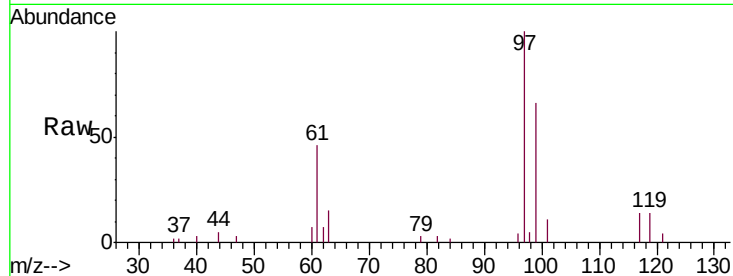




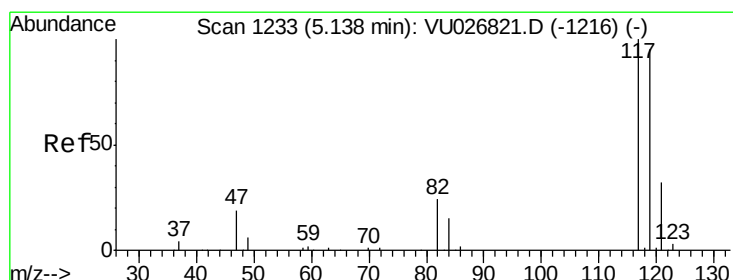
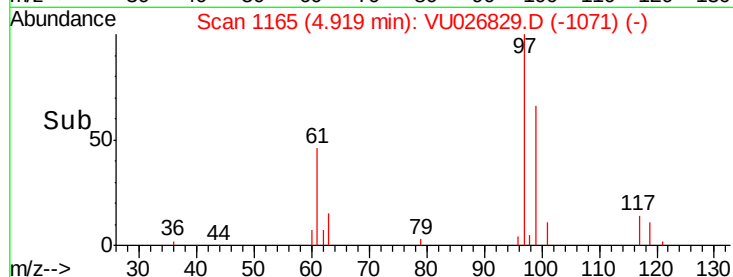
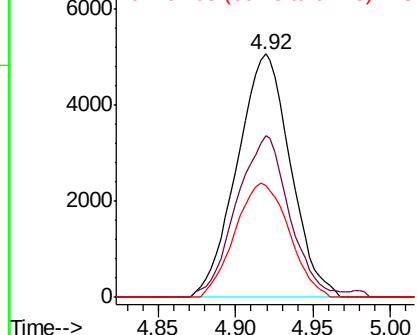
#30
 1,1,1-Trichloroethane
 Concen: 4.329 ug/L
 RT: 4.92 min Scan# 1165
 Delta R.T. 0.00 min
 Lab File: VU026829.D
 Acq: 17 Sep 2018 18:36

Instrument :
 MSVOA_U
 ClientSampleId :
 C0D09

Tgt Ion: 97 Resp: 12122
 Ion Ratio Lower Upper
 97 100
 99 66.0 51.8 77.8
 61 47.5 36.6 54.8

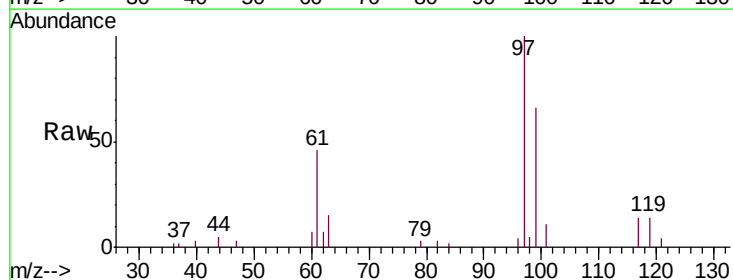


Abundance Ion 97.00 (96.70 to 97.70): VU0
 Ion 99.00 (98.70 to 99.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0

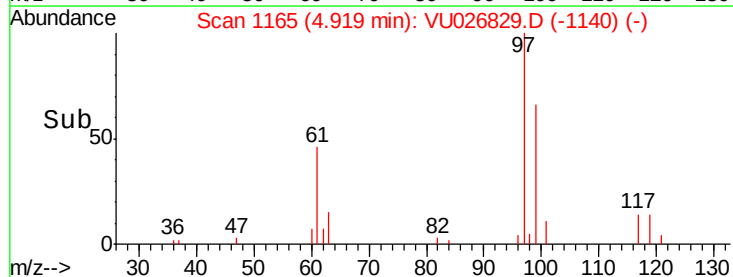
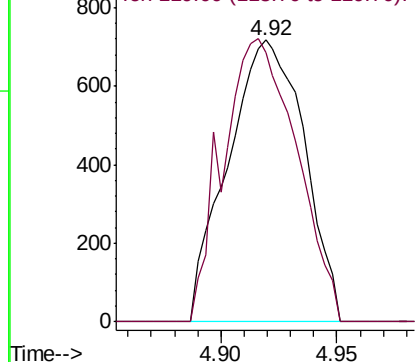


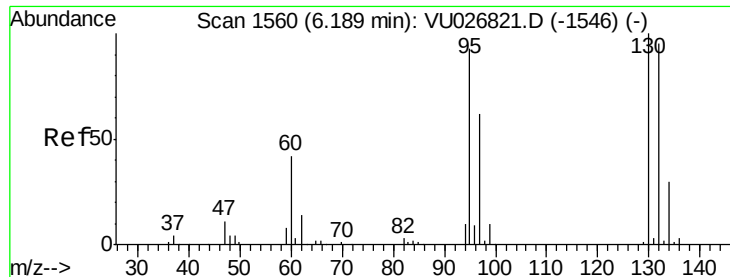
#31
 Carbon tetrachloride
 Concen: 0.652 ug/L
 RT: 4.92 min Scan# 1165
 Delta R.T. -0.22 min
 Lab File: VU026829.D
 Acq: 17 Sep 2018 18:36

Tgt Ion: 117 Resp: 1635
 Ion Ratio Lower Upper
 117 100
 119 84.0 76.3 114.5



Abundance Ion 117.00 (116.70 to 117.70): V
 Ion 119.00 (118.70 to 119.70): V





#34

Trichloroethene

Concen: 8.002 ug/L

RT: 6.19 min Scan# 1560

Delta R.T. -0.00 min

Lab File: VU026829.D

Acq: 17 Sep 2018 18:36

Instrument :

MSVOA_U

ClientSampleId :

C0D09

Tgt Ion: 95 Resp: 14011

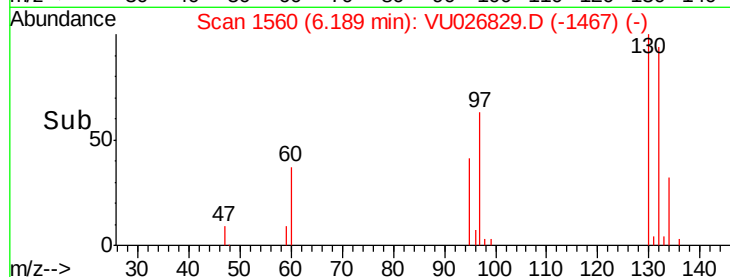
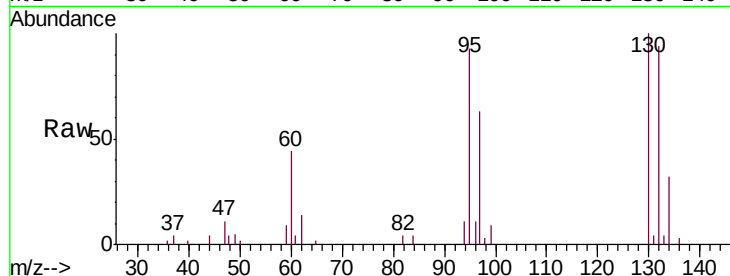
Ion Ratio Lower Upper

95 100

97 67.5 46.3 85.9

132 101.3 71.7 133.1

130 107.8 75.3 139.8

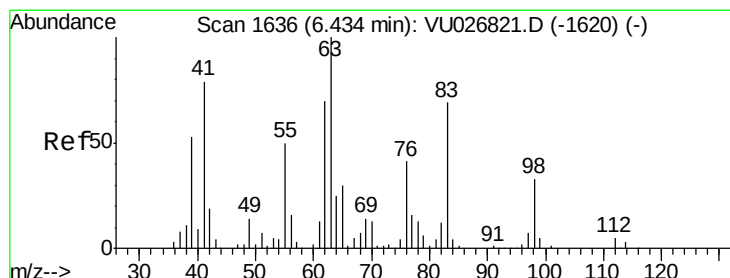
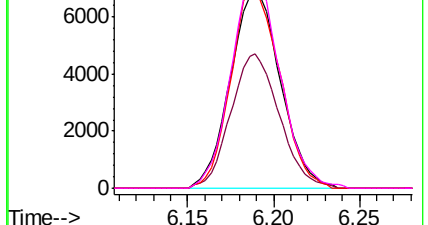


Abundance Ion 95.00 (94.70 to 95.70): VU026829.D (-1467) (-)

Ion 97.00 (96.70 to 97.70): VU026829.D (-1467) (-)

Ion 132.00 (131.70 to 132.70): VU026829.D (-1467) (-)

Ion 130.00 (129.70 to 130.70): VU026829.D (-1467) (-)



#37

1,2-Dichloropropane

Concen: 5.954 ug/L

RT: 6.33 min Scan# 1604

Delta R.T. -0.10 min

Lab File: VU026829.D

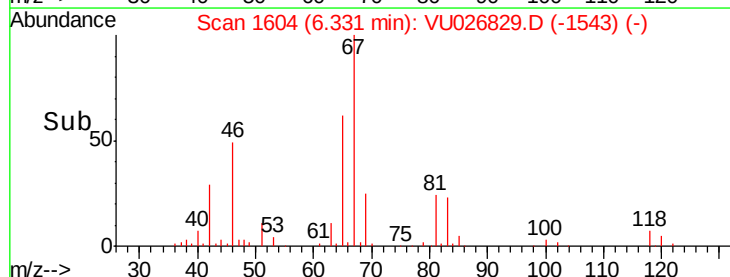
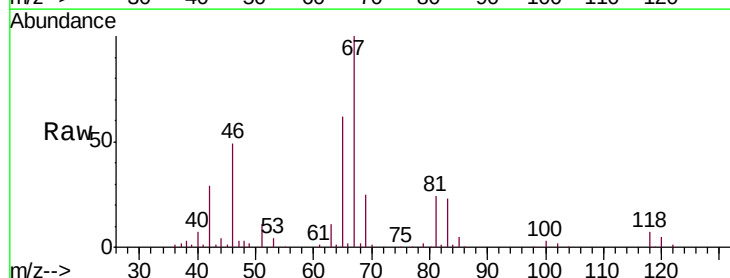
Acq: 17 Sep 2018 18:36

Tgt Ion: 63 Resp: 11934

Ion Ratio Lower Upper

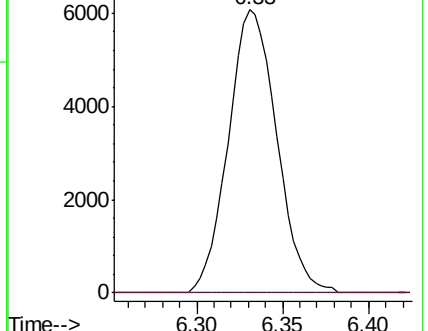
63 100

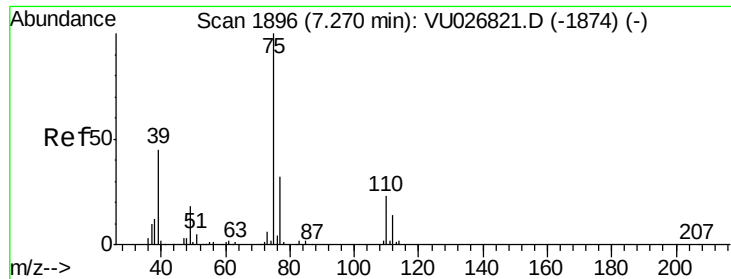
112 0.0 3.7 5.5#



Abundance Ion 63.00 (62.70 to 63.70): VU026829.D (-1543) (-)

Ion 112.00 (111.70 to 112.70): VU026829.D (-1543) (-)

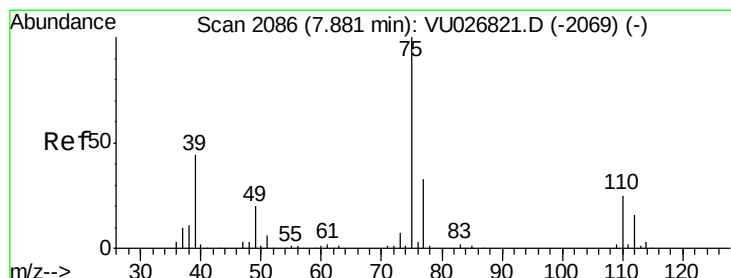
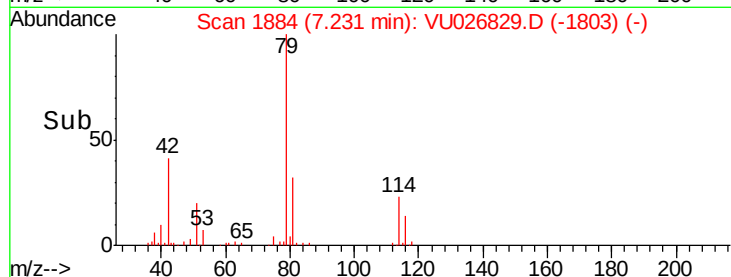
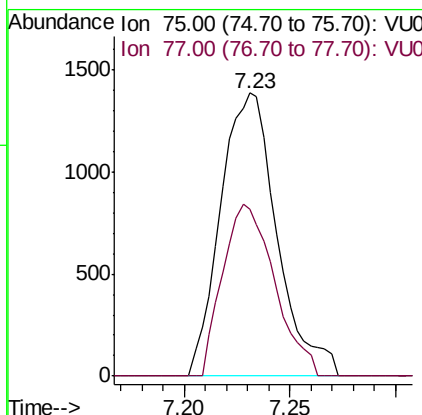
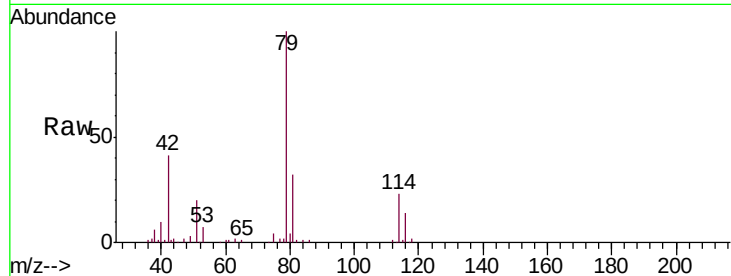




#39
 cis-1,3-Dichloropropene
 Concen: 0.908 ug/L
 RT: 7.23 min Scan# 1884
 Delta R.T. -0.04 min
 Lab File: VU026829.D
 Acq: 17 Sep 2018 18:36

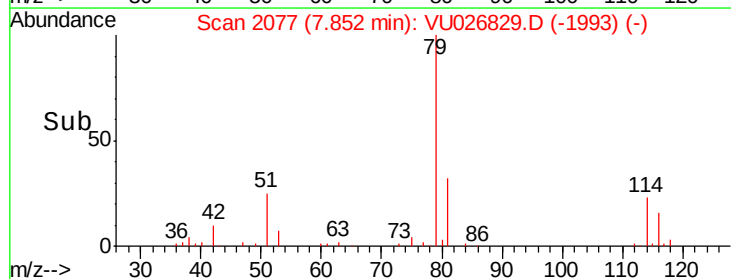
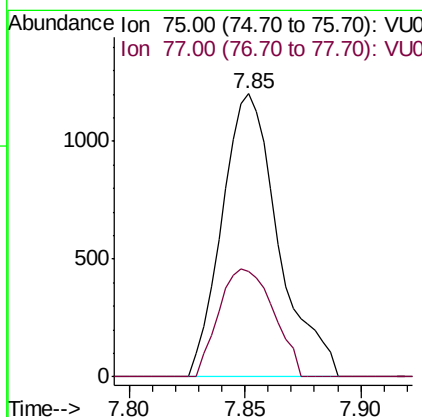
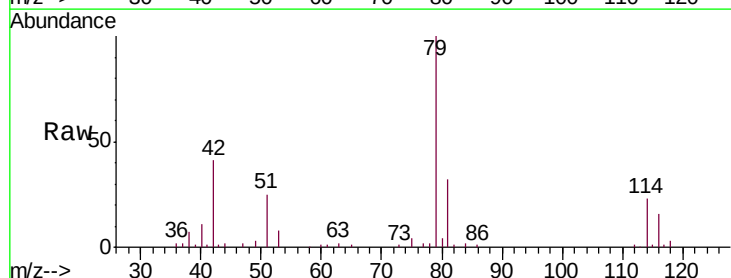
Instrument :
 MSVOA_U
 ClientSampleID :
 C0D09

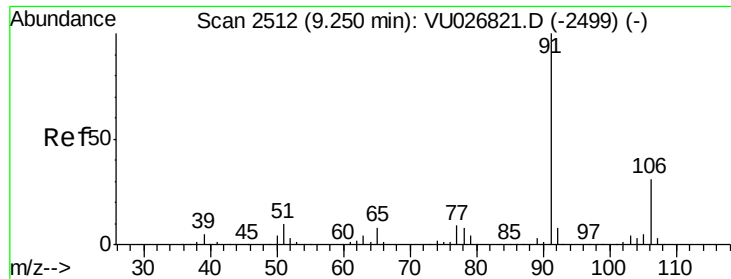
Tgt Ion: 75 Resp: 2571
 Ion Ratio Lower Upper
 75 100
 77 59.0 22.1 41.1#



#44
 trans-1,3-Dichloropropene
 Concen: 0.767 ug/L
 RT: 7.85 min Scan# 2077
 Delta R.T. -0.03 min
 Lab File: VU026829.D
 Acq: 17 Sep 2018 18:36

Tgt Ion: 75 Resp: 2034
 Ion Ratio Lower Upper
 75 100
 77 37.4 22.8 42.4





#52

Ethylbenzene

Concen: 0.470 ug/L

RT: 9.25 min Scan# 2513

Delta R.T. 0.00 min

Lab File: VU026829.D

Acq: 17 Sep 2018 18:36

Instrument :

MSVOA_U

ClientSampleId :

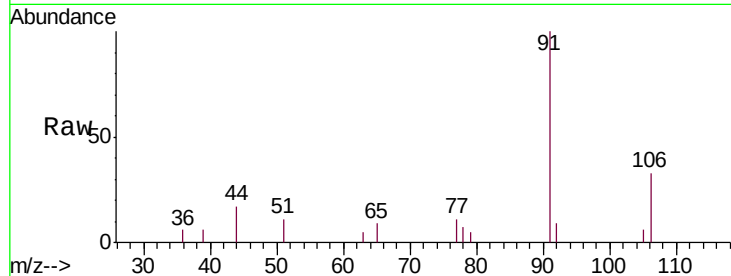
C0D09

Tgt Ion: 91 Resp: 3638

Ion Ratio Lower Upper

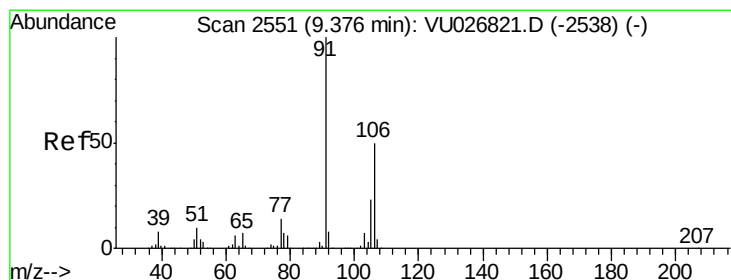
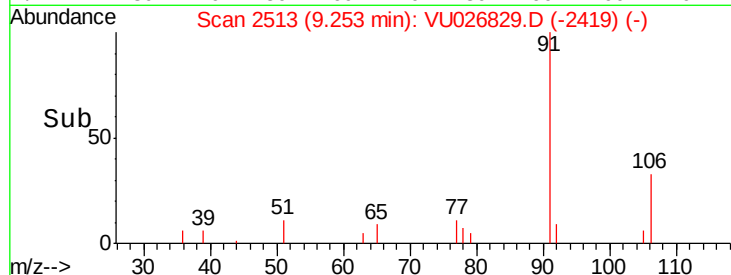
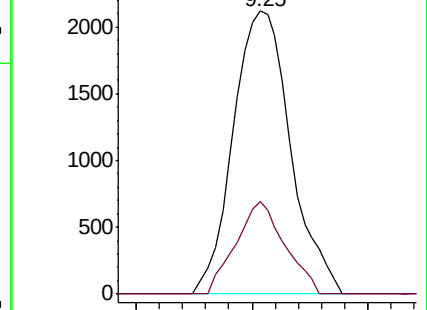
91 100

106 32.9 22.0 40.8



Abundance Ion 91.00 (90.70 to 91.70): VU026821.D (-2499) (-)

Ion 106.00 (105.70 to 106.70): VU026821.D (-2499) (-)



#53

m,p-Xylene

Concen: 1.264 ug/L

RT: 9.38 min Scan# 2551

Delta R.T. -0.00 min

Lab File: VU026829.D

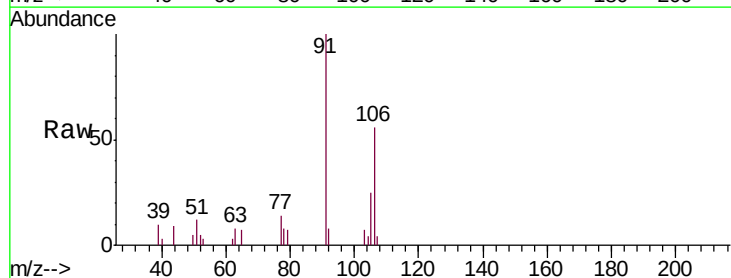
Acq: 17 Sep 2018 18:36

Tgt Ion: 106 Resp: 3760

Ion Ratio Lower Upper

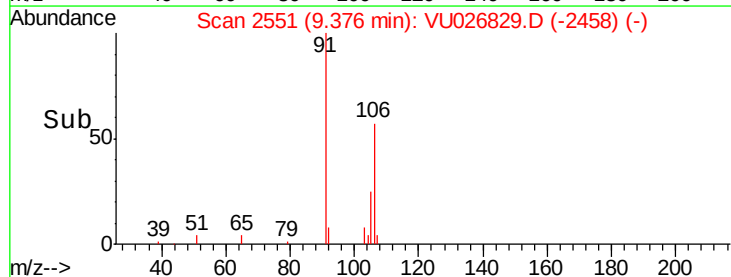
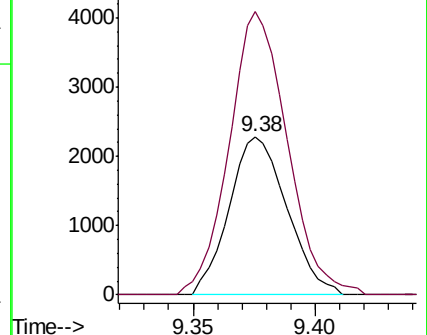
106 100

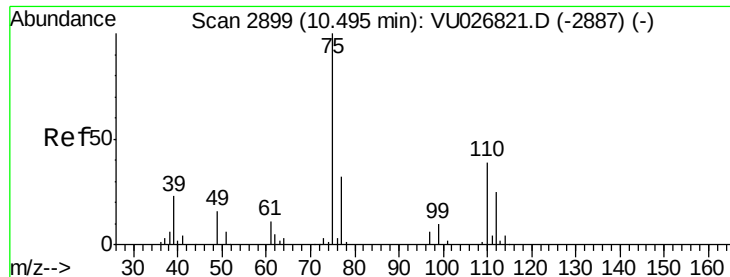
91 179.0 139.2 258.6



Abundance Ion 106.00 (105.70 to 106.70): VU026821.D (-2538) (-)

Ion 91.00 (90.70 to 91.70): VU026821.D (-2538) (-)

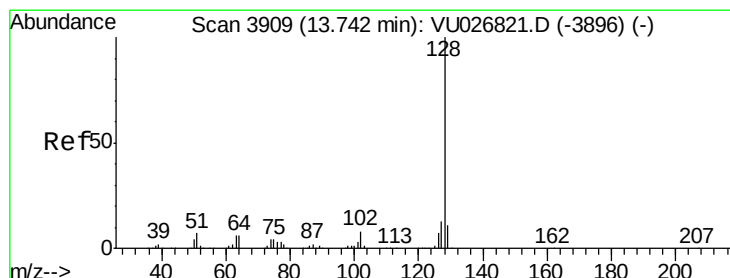
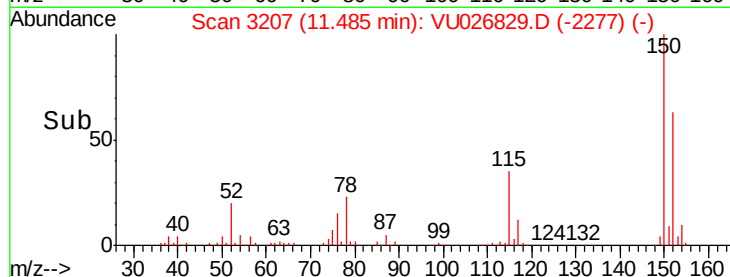
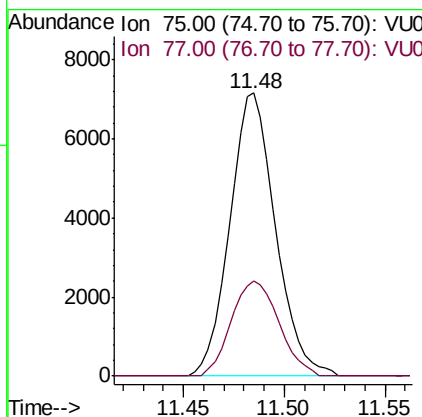
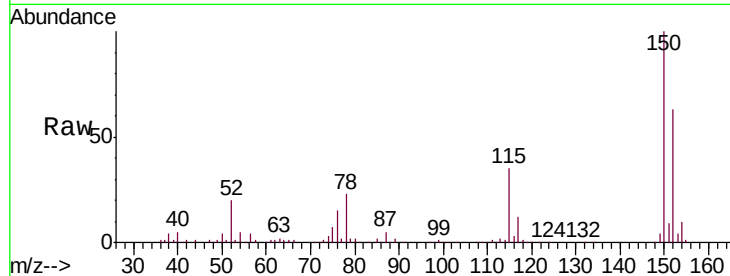




#59
 1,2,3-Trichloropropane
 Concen: 4.726 ug/L
 RT: 11.48 min Scan# 3207
 Delta R.T. 0.99 min
 Lab File: VU026829.D
 Acq: 17 Sep 2018 18:36

Instrument :
 MSVOA_U
 ClientSampled :
 C0D09

Tgt Ion: 75 Resp: 11348
 Ion Ratio Lower Upper
 75 100
 77 35.1 25.5 38.3



#69
 Naphthalene
 Concen: 1.208 ug/L
 RT: 13.75 min Scan# 3911
 Delta R.T. 0.01 min
 Lab File: VU026829.D
 Acq: 17 Sep 2018 18:36

Tgt Ion: 128 Resp: 6924
 Ion Ratio Lower Upper
 128 100
 127 12.9 10.2 15.4
 129 5.5 8.6 12.8#

